

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081519\
 Data File : BN007203.D
 Acq On : 15 Aug 2019 19:09
 Operator : HP/JU
 Sample : K4239-15 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 16 07:05:52 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	7420	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	29267	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	16656	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	39410	0.40	ng	0.00
26) Chrysene-d12	21.03	240	38932	0.40	ng	-0.02
32) Perylene-d12	23.15	264	43089	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	858	0.05	ng	0.00
4) Phenol-d6	6.61	99	1179	0.05	ng	0.00
7) Nitrobenzene-d5	8.55	82	899	0.04	ng	-0.01
10) 2-Methylnaphthalene-d10	11.79	152	1923	0.04	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	314	0.04	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	529	0.02	ng	0.00
24) Fluoranthene-d10	18.86	212	5539	0.04	ng	-0.01
28) Terphenyl-d14	19.48	244	3646	0.03	ng	-0.02

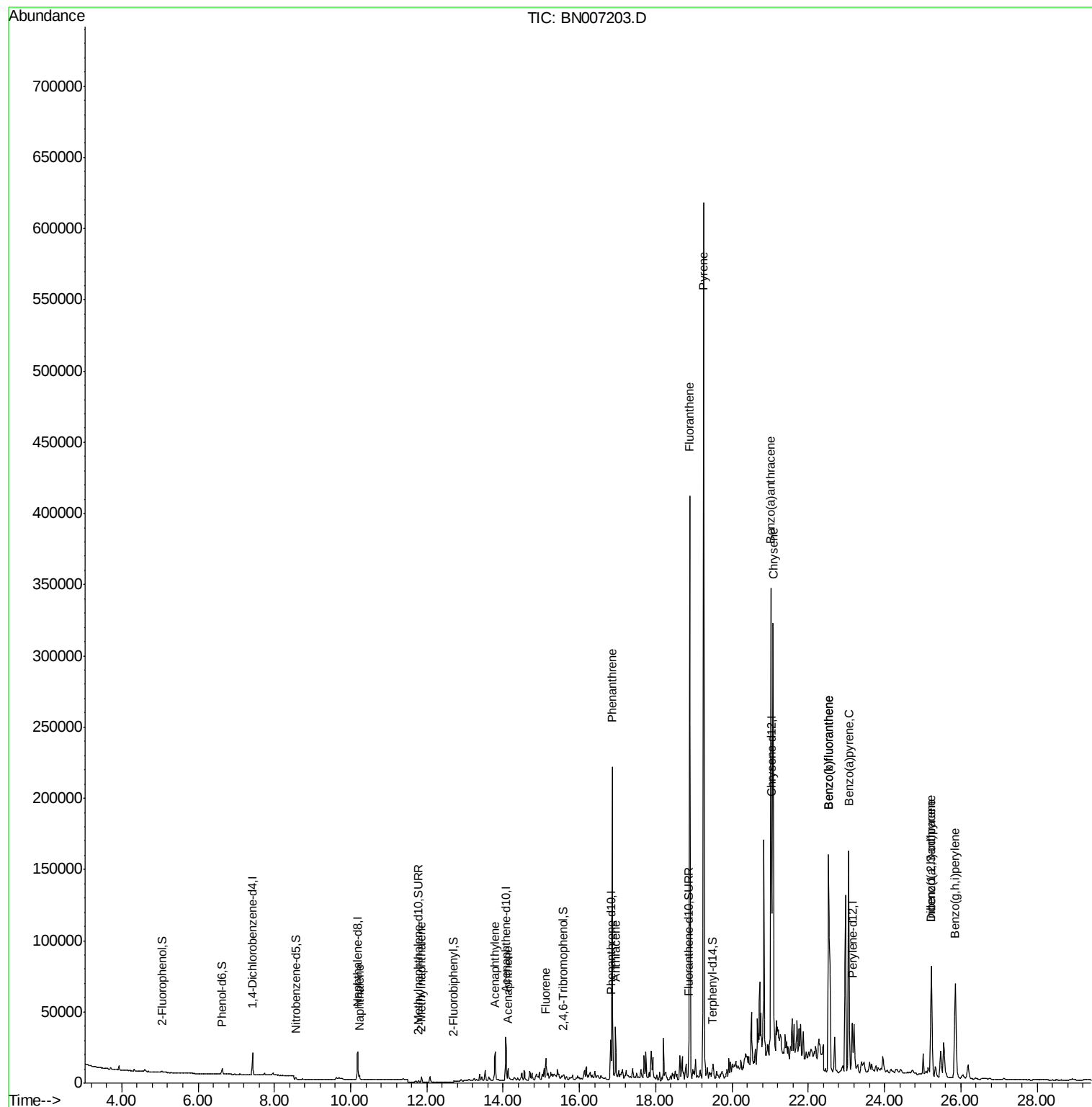
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.22	128	3699	0.045	ng	# 92
11) 2-Methylnaphthalene	11.86	142	2984	0.051	ng	# 95
15) Acenaphthylene	13.79	152	27330	0.314	ng	99
16) Acenaphthene	14.13	154	4563	0.082	ng	96
17) Fluorene	15.12	166	9396	0.113	ng	87
22) Phenanthrene	16.86	178	240587	2.037	ng	100
23) Anthracene	16.95	178	35998	0.334	ng	98
25) Fluoranthene	18.89	202	375327	2.484	ng	99
27) Pyrene	19.26	202	576595	4.223	ng	97
29) Benzo(a)anthracene	21.02	228	275221	1.933	ng	95
30) Chrysene	21.08	228	302022	2.183	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	116728	0.766	ng	99
33) Benzo(b)fluoranthene	22.53	252	252488	1.709	ng	100
34) Benzo(k)fluoranthene	22.53	252	252488	1.730	ng	100
35) Benzo(a)pyrene	23.06	252	206688	1.543	ng	99
36) Dibenzo(a,h)anthracene	25.24	278	36583	0.274	ng	# 88
37) Benzo(a,h,i)perylene	25.85	276	135438	0.985	ng	99

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

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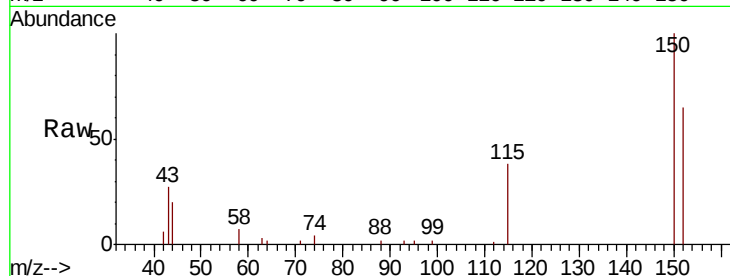


#1

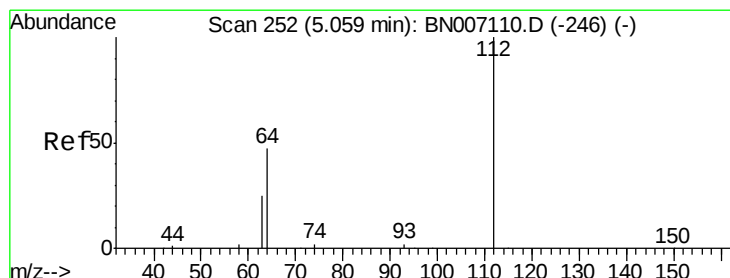
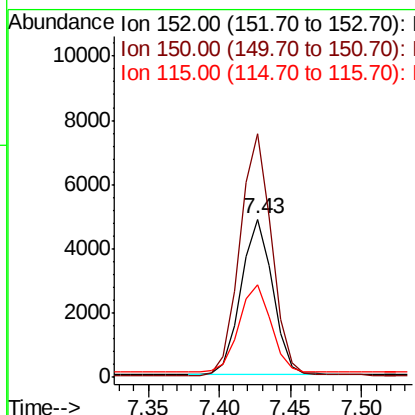
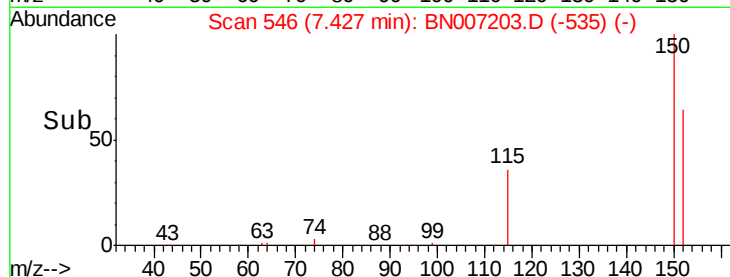
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007203.D
Acq: 15 Aug 2019 19:09

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 7420
Ion Ratio Lower Upper
152 100
150 153.7 121.7 182.5
115 58.7 46.2 69.4



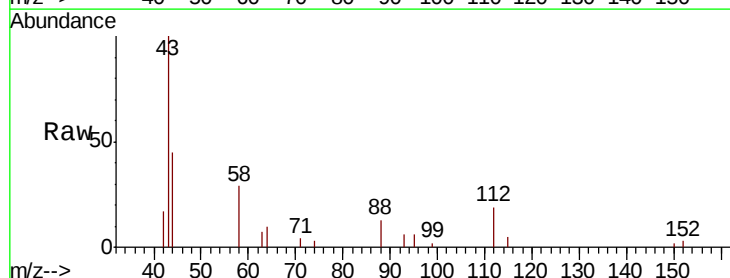
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



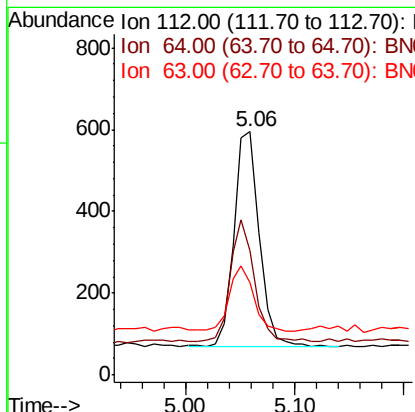
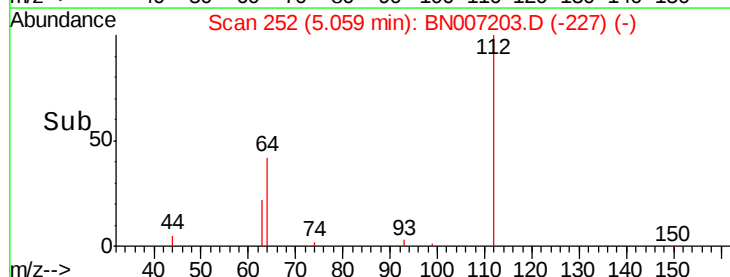
#3

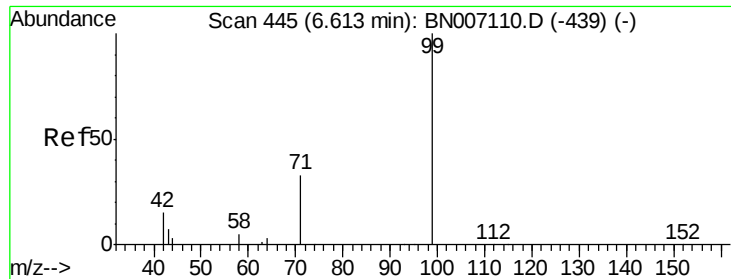
2-Fluorophenol
Concen: 0.048 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007203.D
Acq: 15 Aug 2019 19:09

Tgt Ion:112 Resp: 858
Ion Ratio Lower Upper
112 100
64 54.2 42.6 63.8
63 29.4 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: 0.053 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

ClientSampleId :

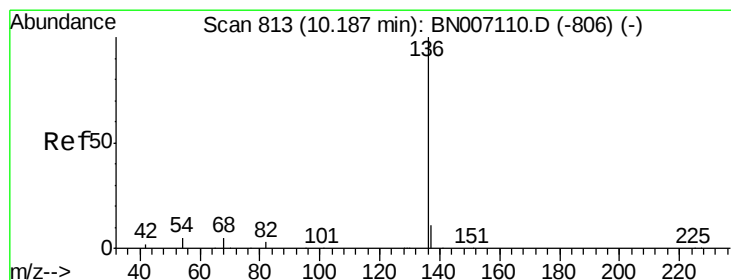
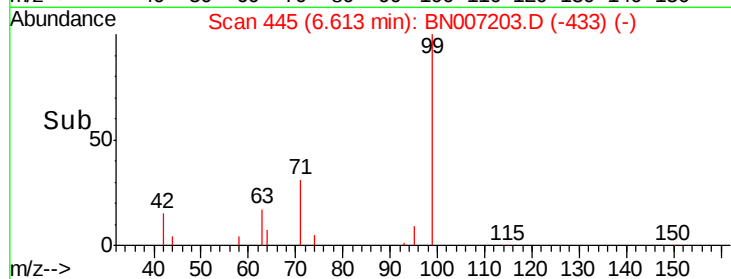
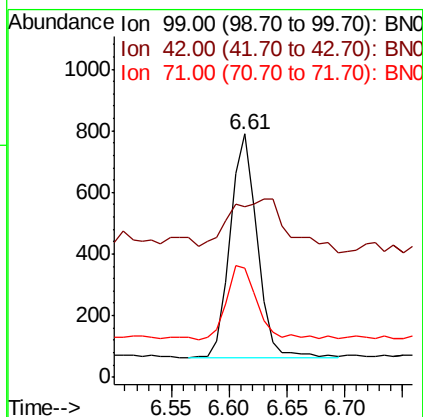
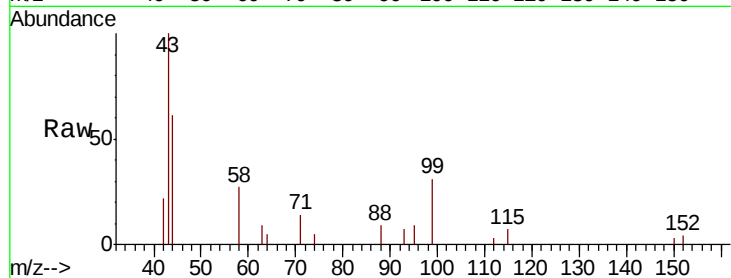
Tot Ion: 99 Resp: 1179

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

71 38.0 27.0 40.4



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Tgt Ion: 136 Resp: 29267

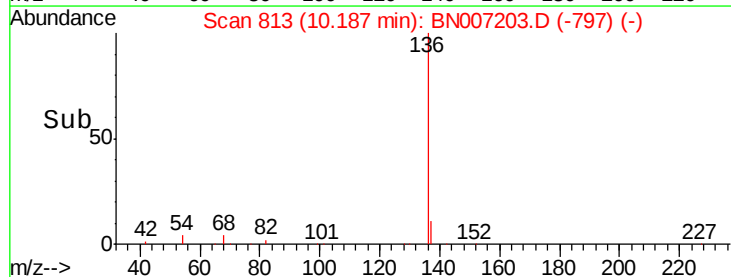
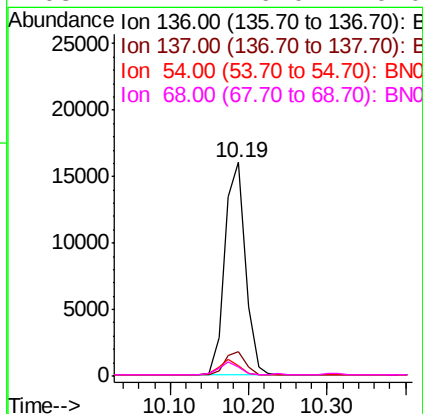
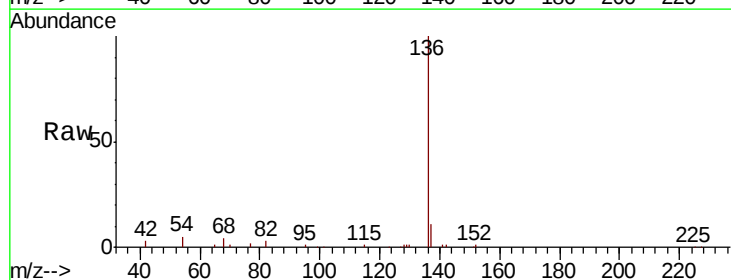
Ion Ratio Lower Upper

136 100

137 11.2 9.4 14.0

54 4.5 6.6 9.8#

68 4.4 6.0 9.0#





#7

Nitrobenzene-d5

Concen: 0.038 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

ClientSampleId :

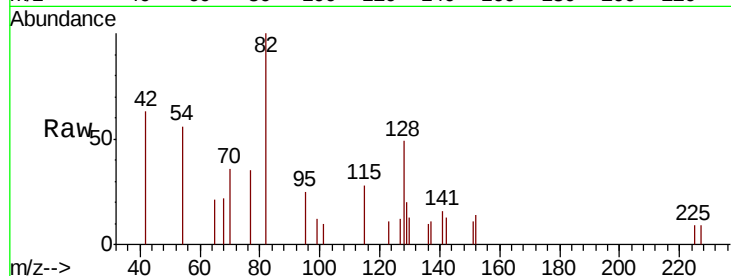
Tot Ion: 82 Resp: 899

Ion Ratio Lower Upper

82 100

128 49.3 34.6 51.8

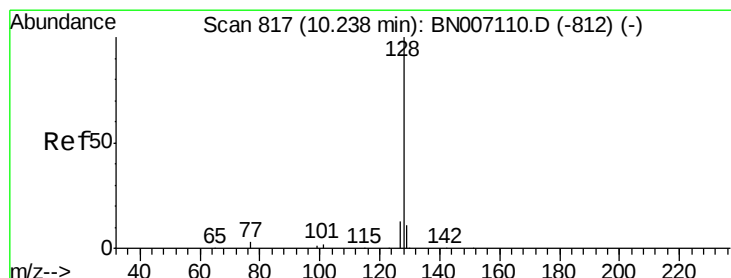
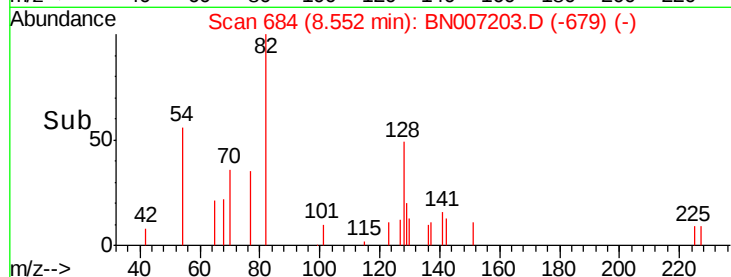
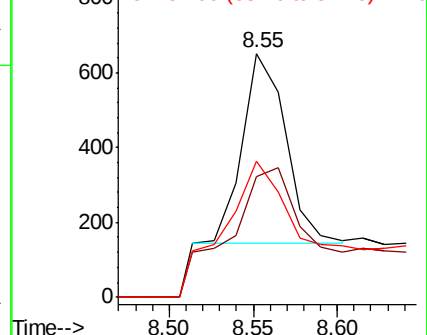
54 56.1 36.2 54.4#



Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): BNC

Ion 54.00 (53.70 to 54.70): BNC



#8

Naphthalene

Concen: 0.045 ng

RT: 10.22 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

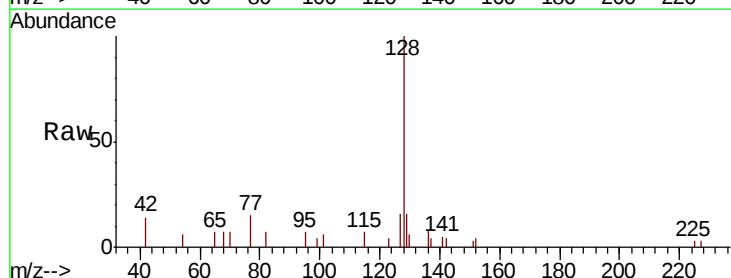
Tgt Ion:128 Resp: 3699

Ion Ratio Lower Upper

128 100

129 16.1 9.4 14.2#

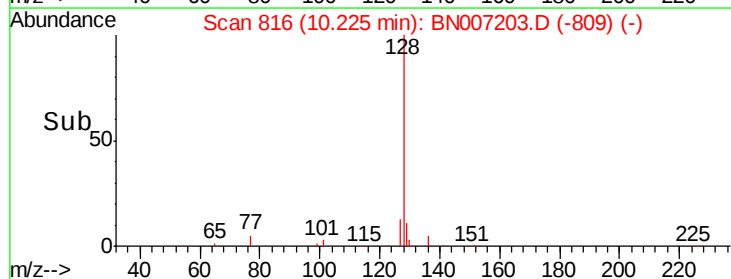
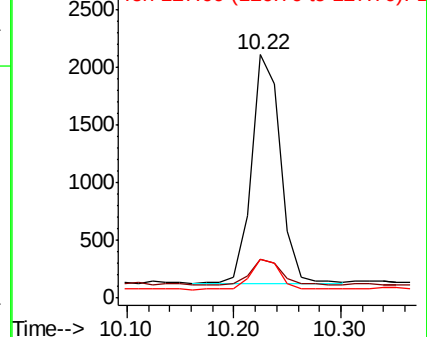
127 16.1 11.0 16.6



Abundance Ion 128.00 (127.70 to 128.70): BNC

Ion 129.00 (128.70 to 129.70): BNC

Ion 127.00 (126.70 to 127.70): BNC





#10

2-Methylnaphthalene-d10

Concen: 0.035 ng

RT: 11.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

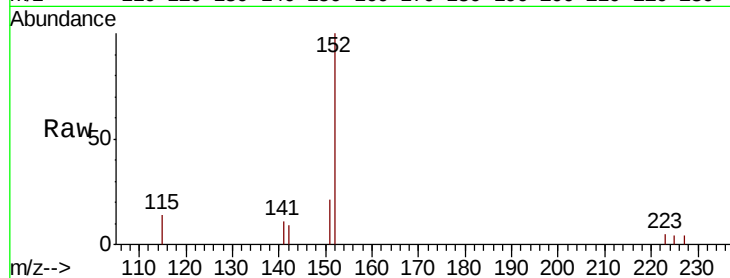
ClientSampleId :

Tot Ion:152 Resp: 1923

Ion Ratio Lower Upper

152 100

151 20.3 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

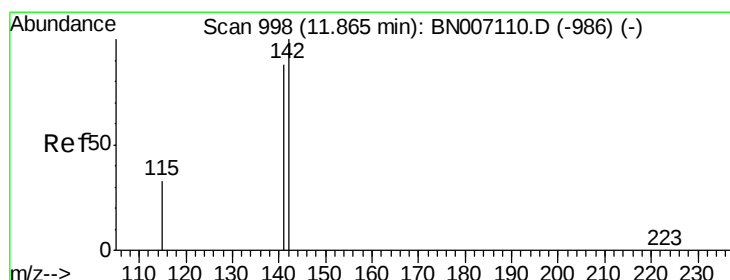
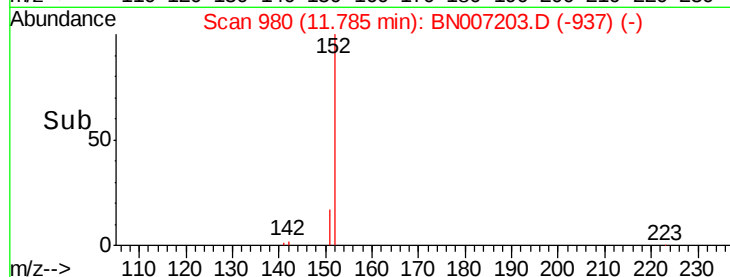
11.79

1000

500

0

Time--> 11.70 11.75 11.80 11.85



#11

2-Methylnaphthalene

Concen: 0.051 ng

RT: 11.86 min Scan# 997

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

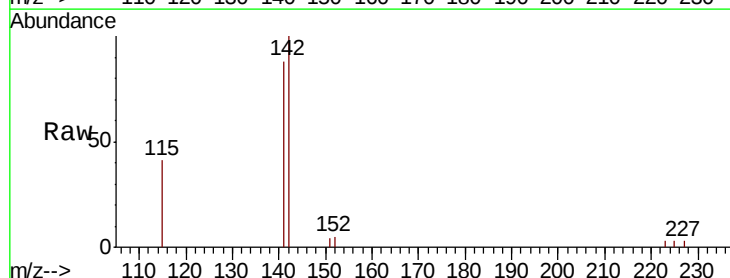
Tgt Ion:142 Resp: 2984

Ion Ratio Lower Upper

142 100

141 87.9 69.0 103.6

115 41.1 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

2500

2000

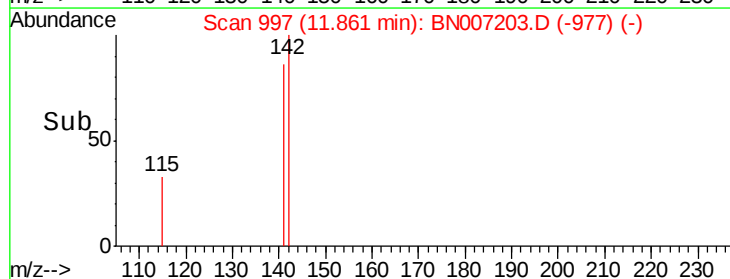
1500

1000

500

0

Time--> 11.80 11.90





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

ClientSampled :

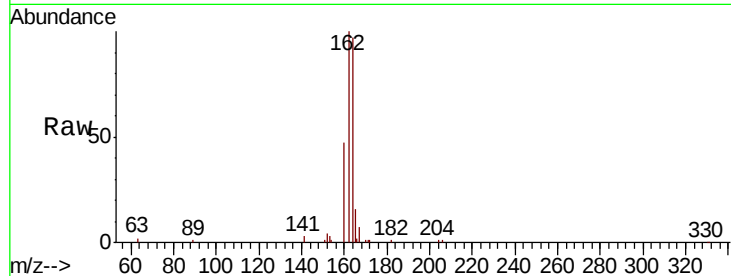
Tot Ion:164 Resp: 16656

Ion Ratio Lower Upper

164 100

162 103.5 82.2 123.4

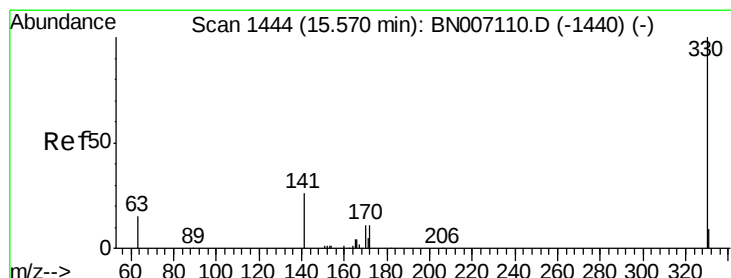
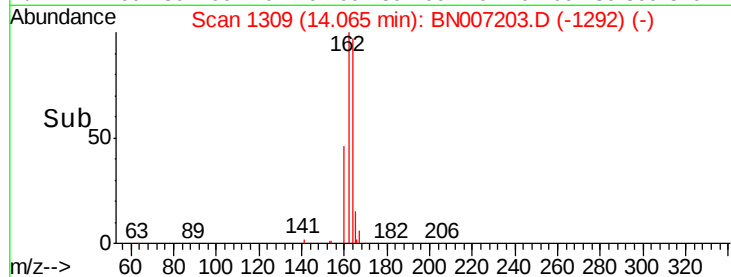
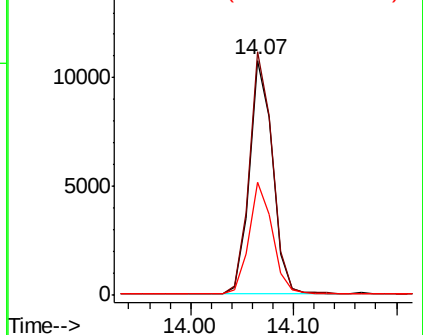
160 48.2 38.3 57.5



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: 0.035 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

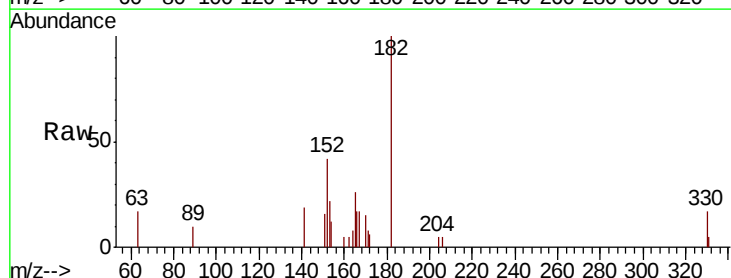
Tgt Ion:330 Resp: 314

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

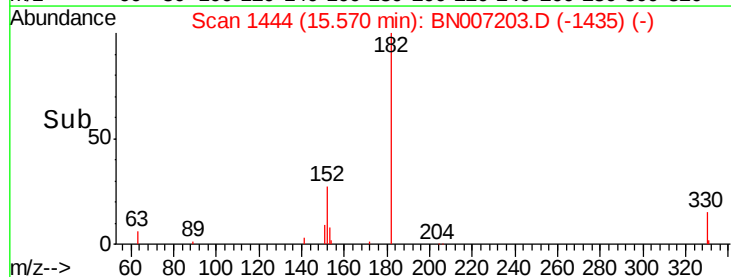
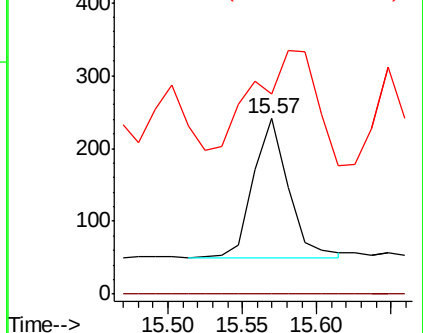
141 151.6 33.6 50.4#



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

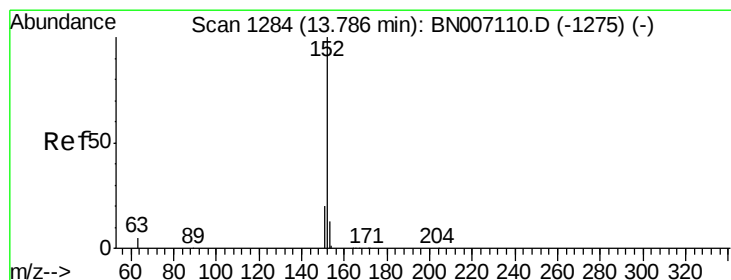
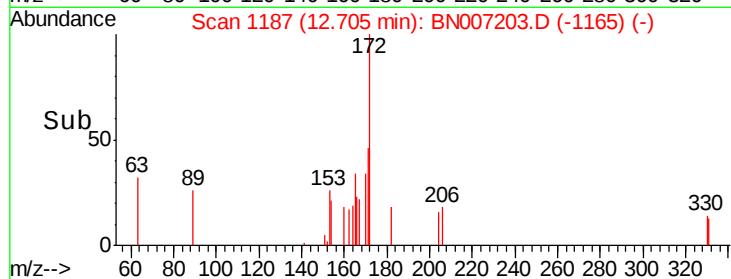
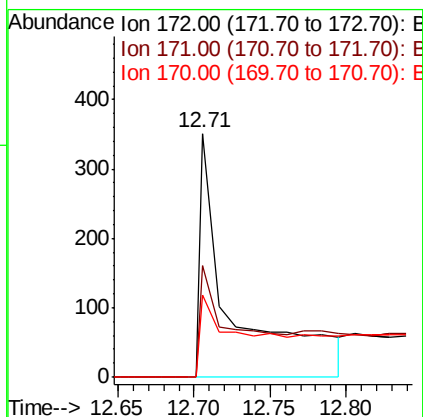
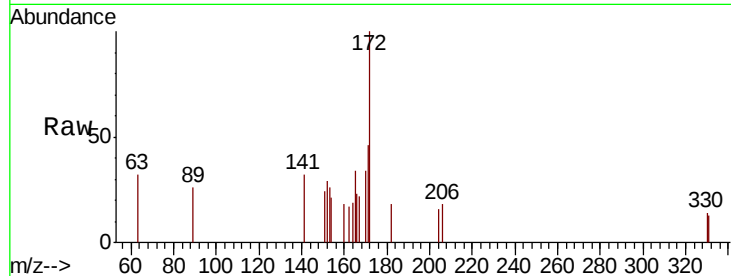




#14
2-Fluorobiphenyl
Concen: 0.022 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007203.D
Acq: 15 Aug 2019 19:09

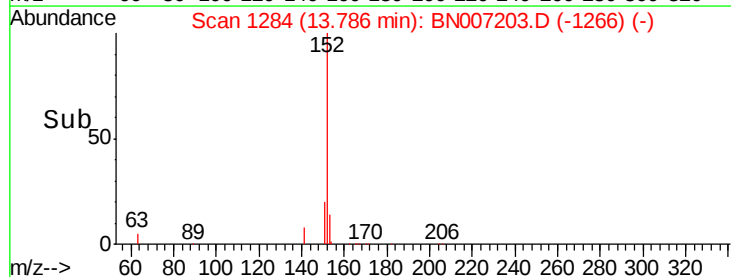
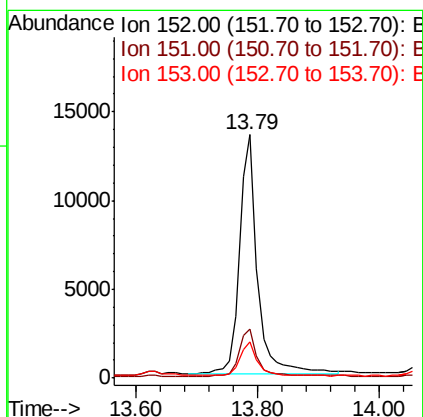
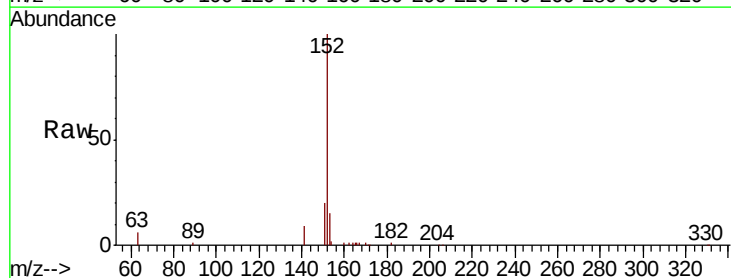
Instrument :
BNA_N
ClientSampleId :

Tot Ion:172 Resp: 529
Ion Ratio Lower Upper
172 100
171 45.9 26.3 39.5#
170 33.9 17.0 25.4#



#15
Acenaphthylene
Concen: 0.314 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007203.D
Acq: 15 Aug 2019 19:09

Tgt Ion:152 Resp: 27330
Ion Ratio Lower Upper
152 100
151 19.9 15.8 23.6
153 14.0 10.4 15.6





#16

Acenaphthene

Concen: 0.082 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

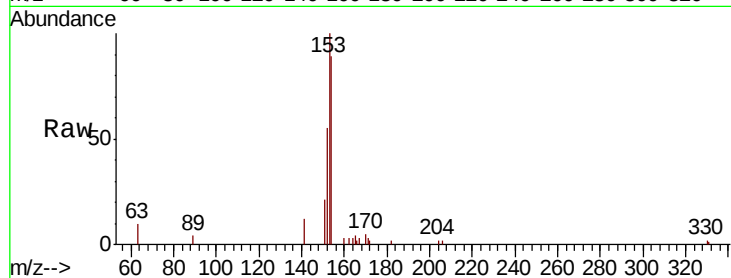
Instrument :

BNA_N

ClientSampleId :

Tot Ion:154 Resp: 4563

Ion	Ratio	Lower	Upper
154	100		
153	110.6	89.5	134.3
152	62.0	44.8	67.2

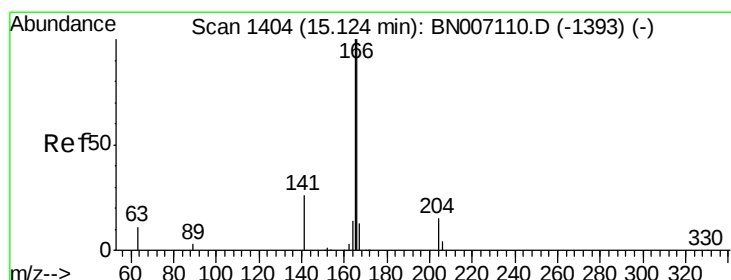
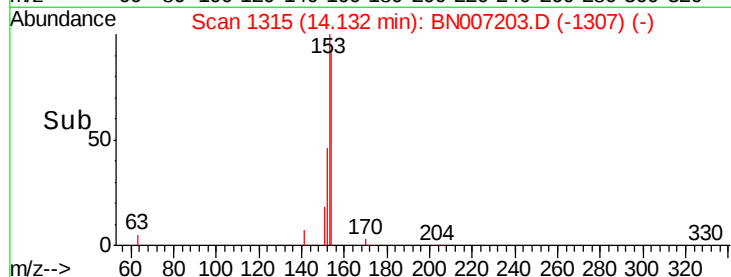
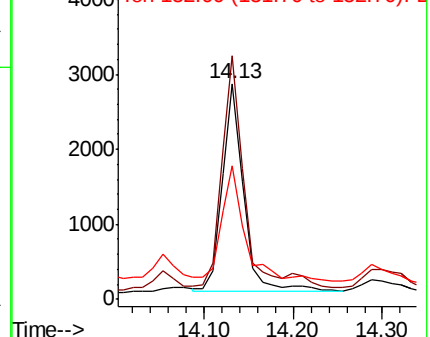


Abundance

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: 0.113 ng

RT: 15.12 min Scan# 1404

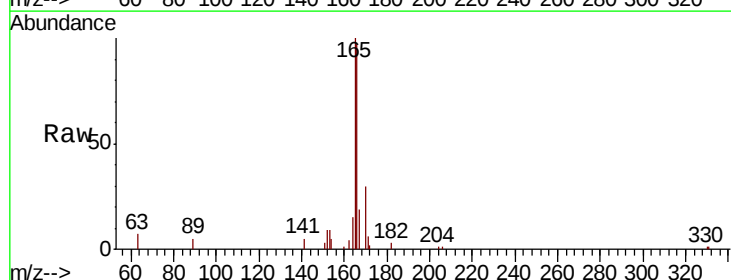
Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Tgt Ion:166 Resp: 9396

Ion	Ratio	Lower	Upper
166	100		
165	111.7	77.9	116.9
167	16.0	10.9	16.3

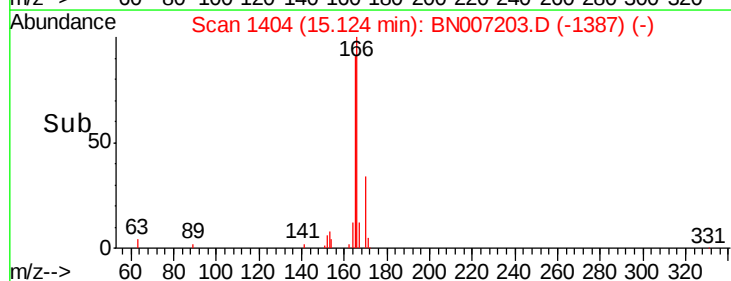
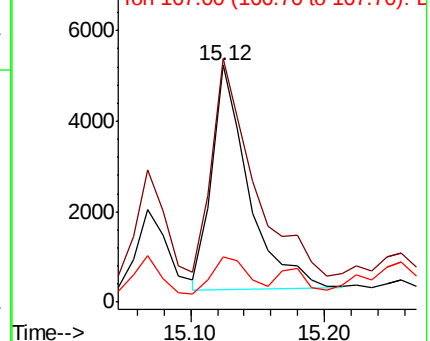


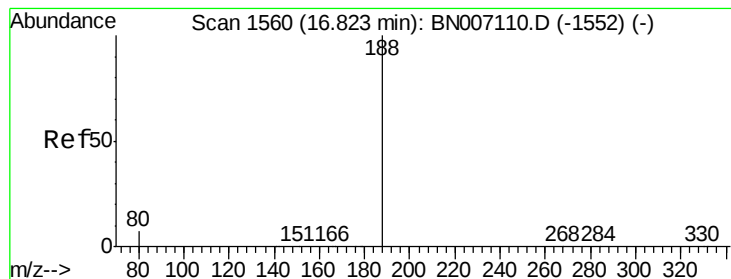
Abundance

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: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

ClientSampleId :

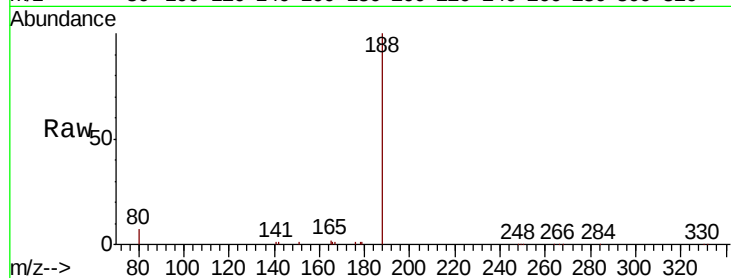
Tot Ion:188 Resp: 39410

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

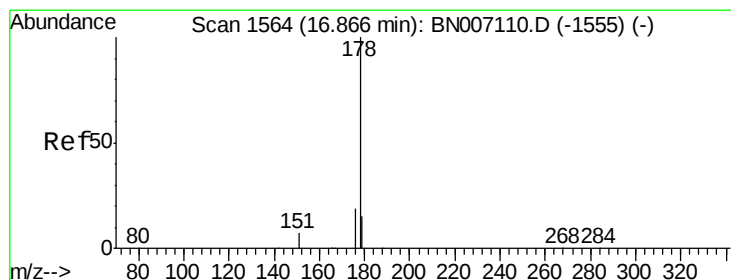
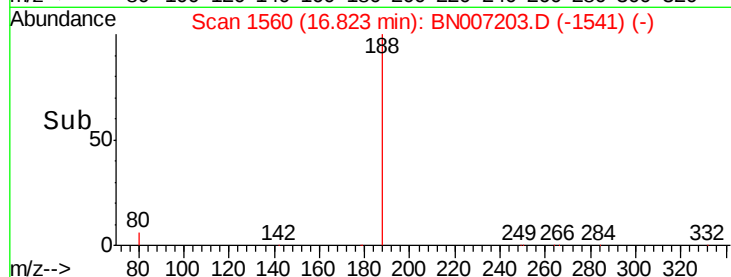
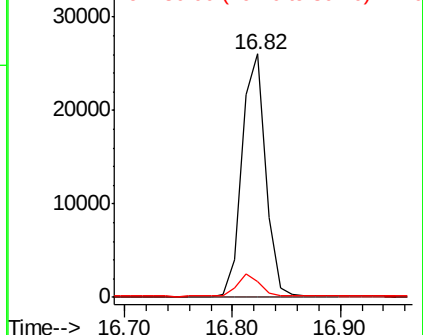
80 6.7 7.8 11.6#



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: 2.037 ng

RT: 16.86 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

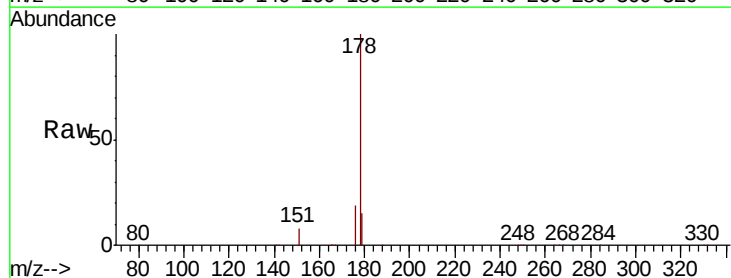
Tgt Ion:178 Resp: 240587

Ion Ratio Lower Upper

178 100

176 18.8 15.2 22.8

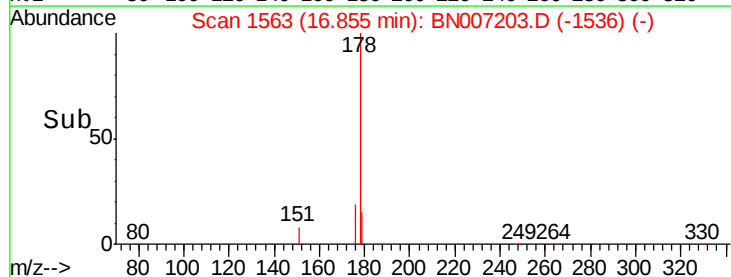
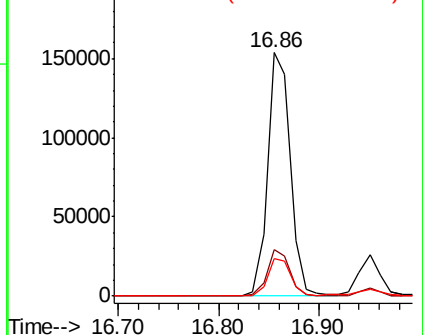
179 15.4 12.3 18.5



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: 0.334 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

ClientSampleId :

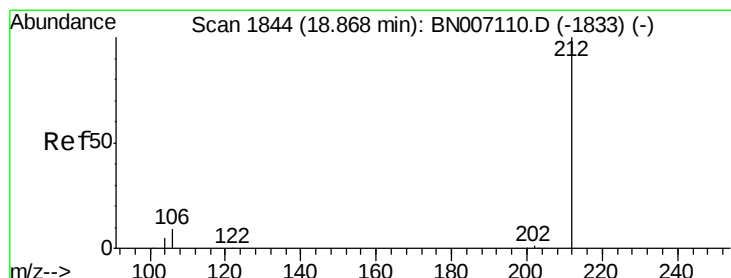
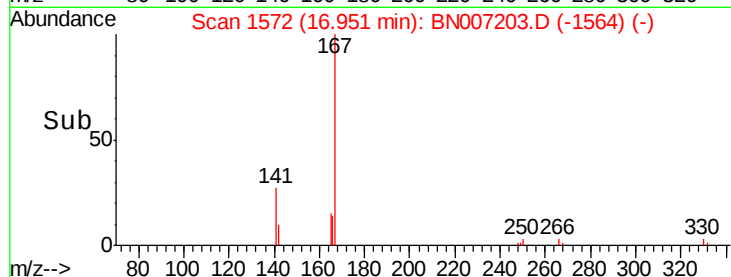
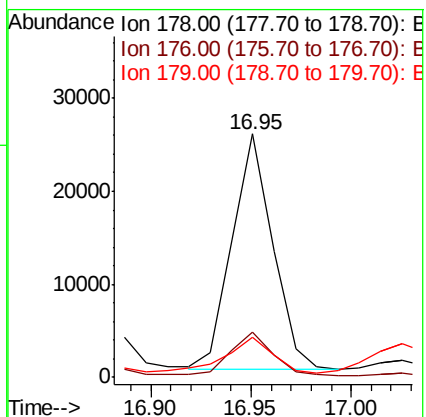
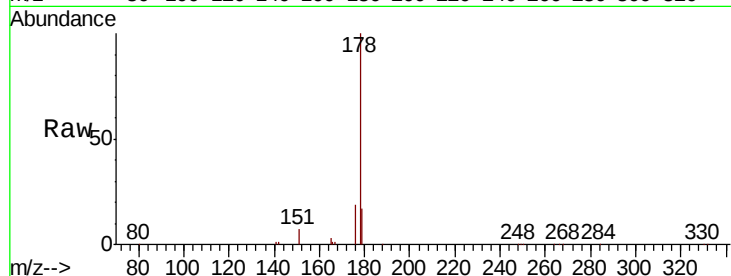
Tot Ion:178 Resp: 35998

Ion Ratio Lower Upper

178 100

176 18.4 14.6 21.8

179 17.2 12.5 18.7



#24

Fluoranthene-d10

Concen: 0.040 ng

RT: 18.86 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

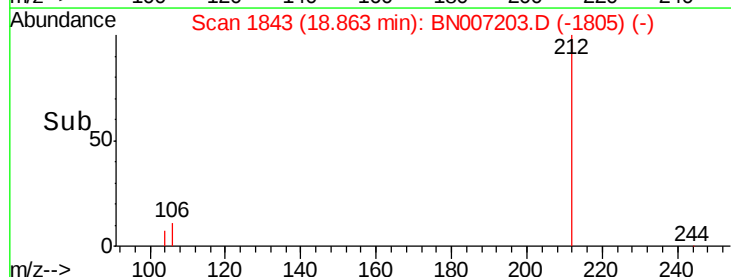
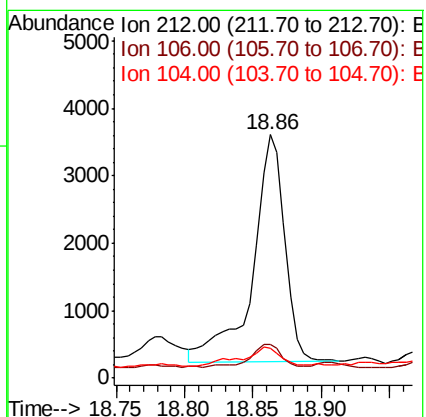
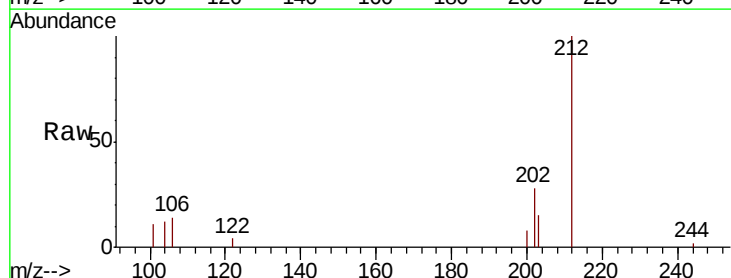
Tgt Ion:212 Resp: 5539

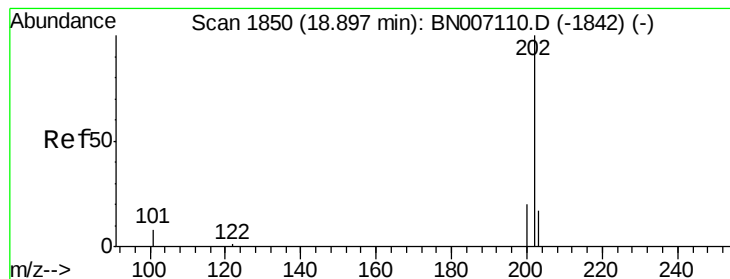
Ion Ratio Lower Upper

212 100

106 9.7 8.2 12.2

104 10.3 4.5 6.7#





#25

Fluoranthene

Concen: 2.484 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

ClientSampleId :

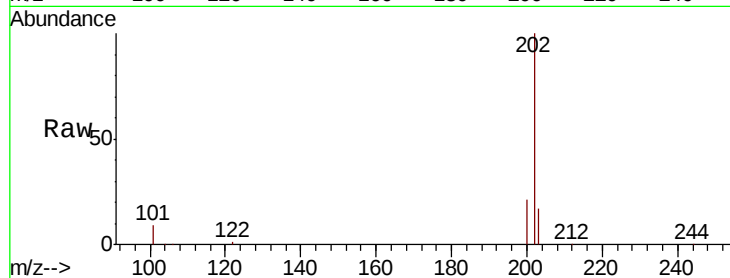
Tot Ion:202 Resp: 375327

Ion Ratio Lower Upper

202 100

101 9.0 7.0 10.4

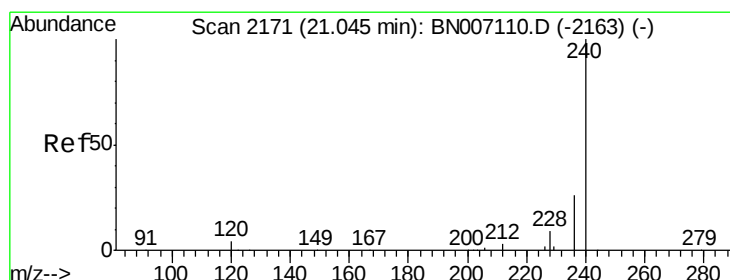
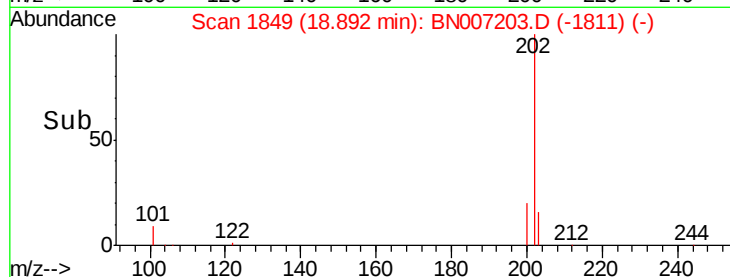
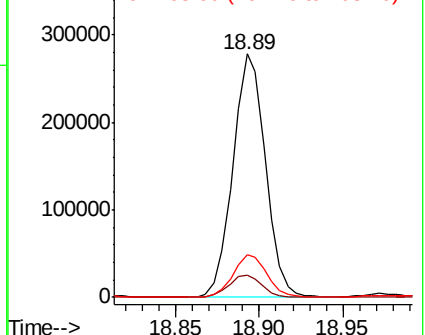
203 17.8 13.8 20.8



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



#26

Chrysene-d12

Concen: 0.400 ng

RT: 21.03 min Scan# 2170

Delta R.T. -0.02 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

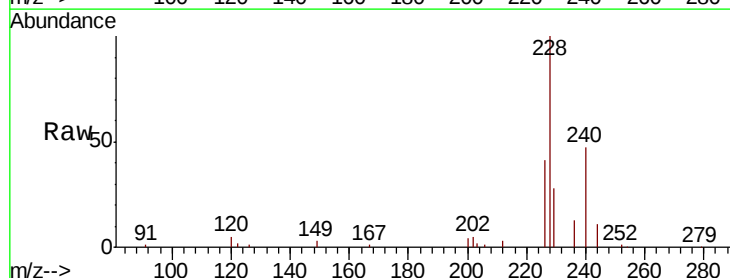
Tgt Ion:240 Resp: 38932

Ion Ratio Lower Upper

240 100

120 10.7 4.0 6.0#

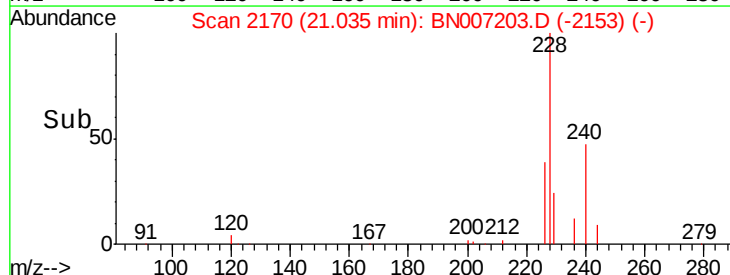
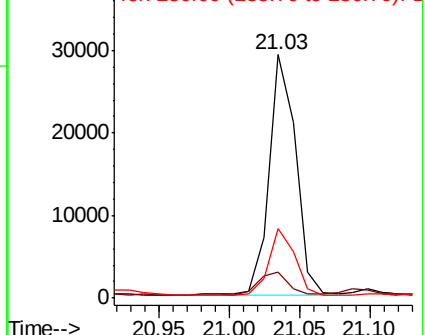
236 28.3 21.3 31.9



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

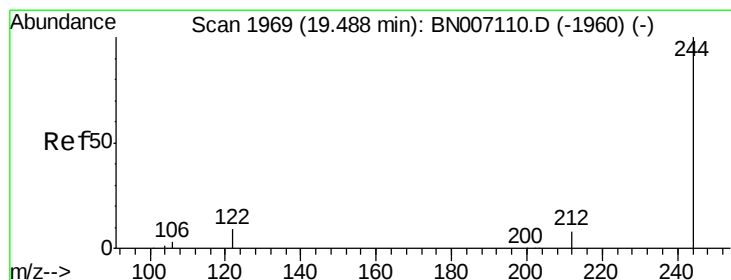
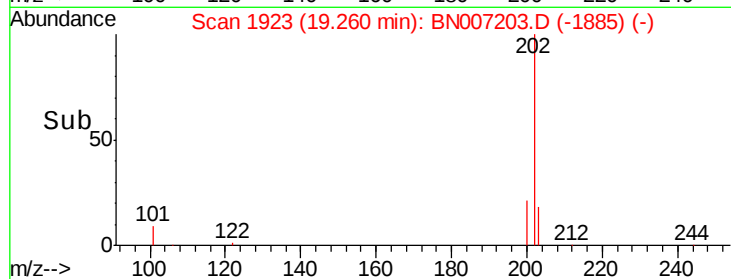
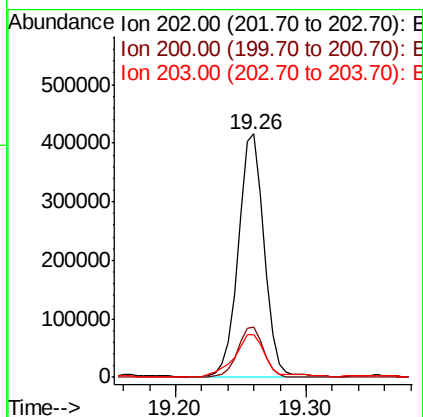
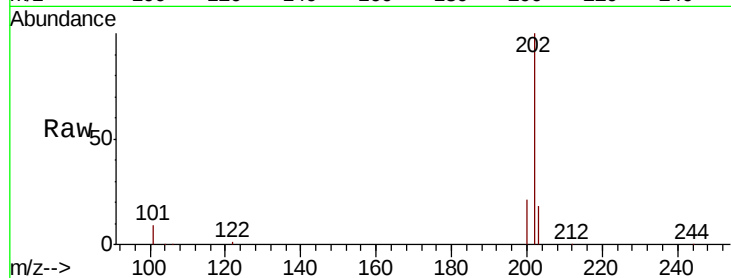




#27
Pvrene
Concen: 4.223 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007203.D
Acq: 15 Aug 2019 19:09

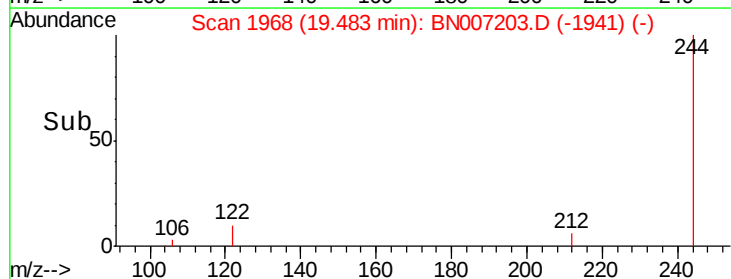
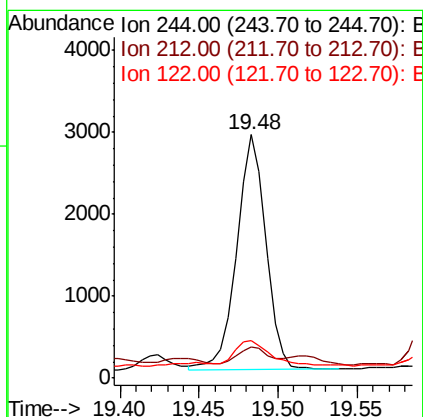
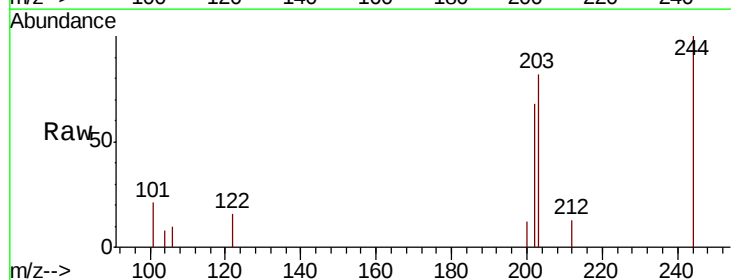
Instrument :
BNA_N
ClientSampled :

Tot Ion:202 Resp: 576595
Ion Ratio Lower Upper
202 100
200 20.9 16.6 24.8
203 20.1 14.0 21.0



#28
Terphenyl-d14
Concen: 0.034 ng
RT: 19.48 min Scan# 1968
Delta R.T. -0.02 min
Lab File: BN007203.D
Acq: 15 Aug 2019 19:09

Tgt Ion:244 Resp: 3646
Ion Ratio Lower Upper
244 100
212 12.9 6.2 9.2#
122 15.5 7.4 11.2#





#29

Benzo(a)anthracene

Concen: 1.933 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

ClientSampleId :

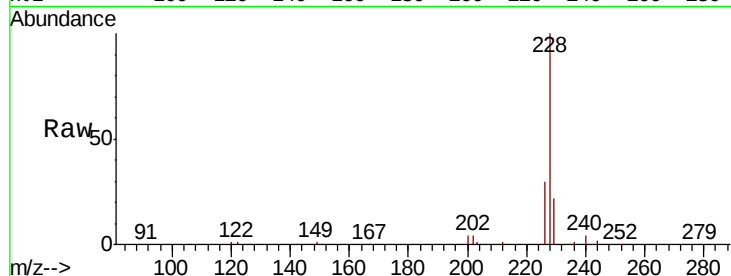
Tot Ion:228 Resp: 275221

Ion Ratio Lower Upper

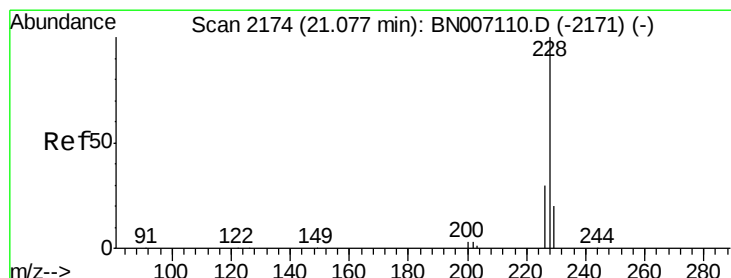
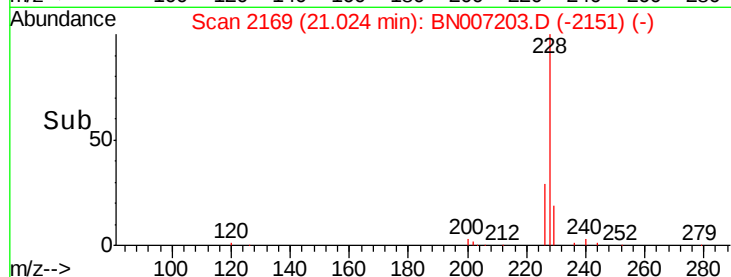
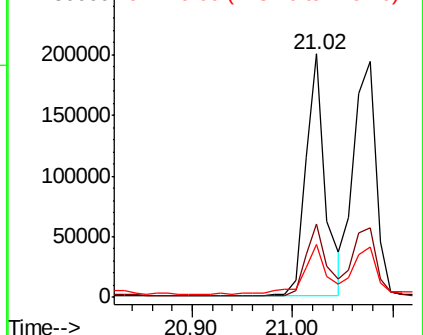
228 100

226 30.2 21.8 32.6

229 21.7 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: 2.183 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

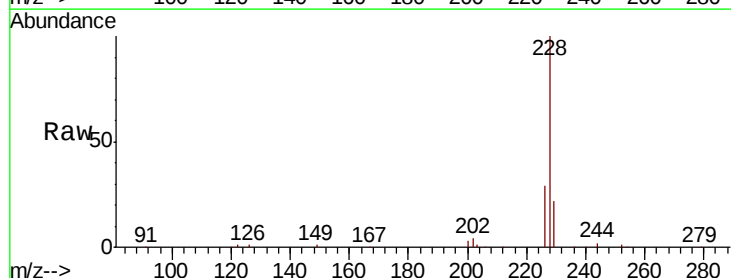
Tgt Ion:228 Resp: 302022

Ion Ratio Lower Upper

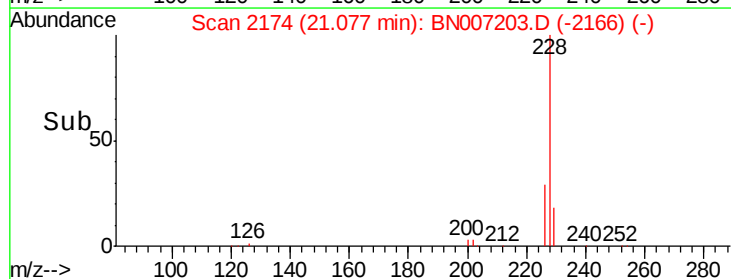
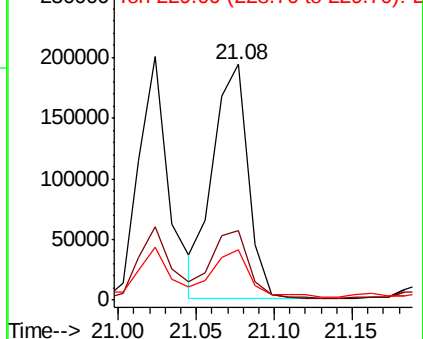
228 100

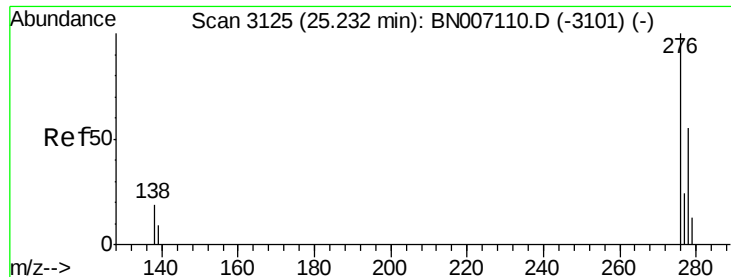
226 29.3 23.8 35.6

229 21.5 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

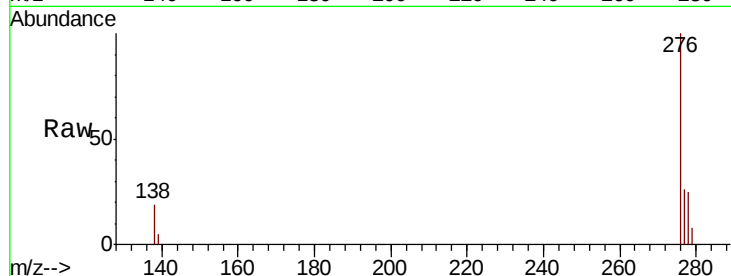




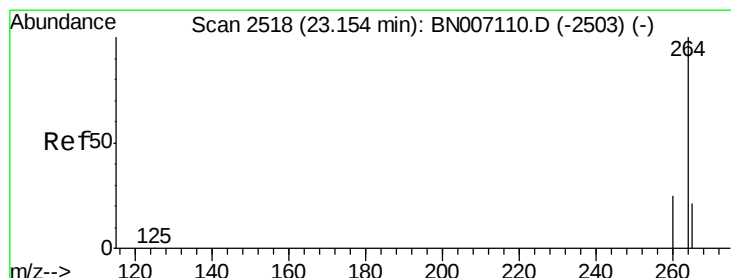
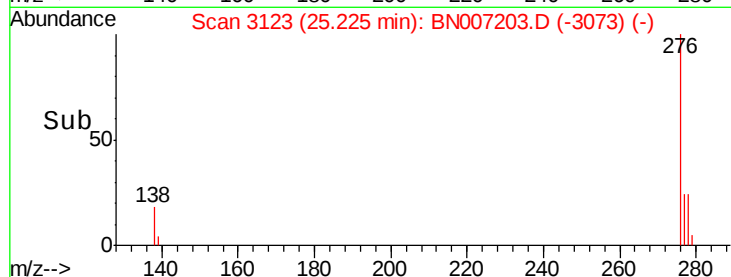
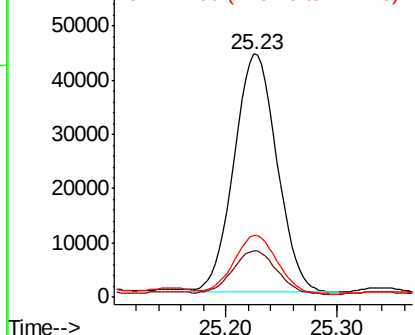
#31
 Indeno(1,2,3-cd)pyrene
 Concen: 0.766 ng
 RT: 25.23 min Scan# 3123
 Delta R.T. -0.03 min
 Lab File: BN007203.D
 Acq: 15 Aug 2019 19:09

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:276 Resp: 116728
 Ion Ratio Lower Upper
 276 100
 138 19.0 16.0 24.0
 277 25.0 19.9 29.9

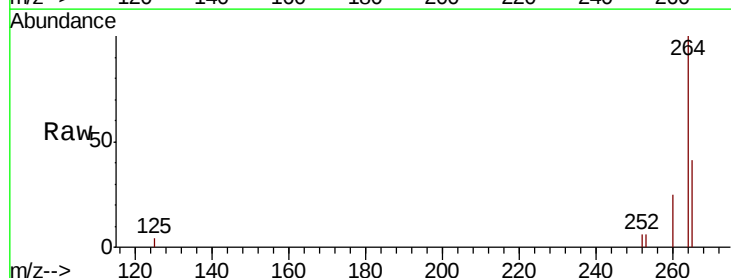


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

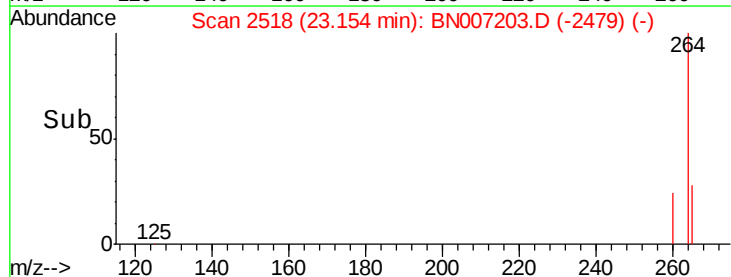
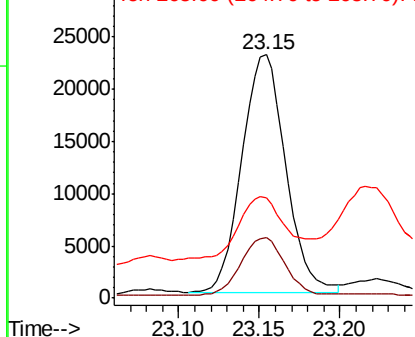


#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2518
 Delta R.T. -0.02 min
 Lab File: BN007203.D
 Acq: 15 Aug 2019 19:09

Tgt Ion:264 Resp: 43089
 Ion Ratio Lower Upper
 264 100
 260 24.9 19.8 29.8
 265 41.0 26.2 39.4#



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 1.709 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

ClientSampleId :

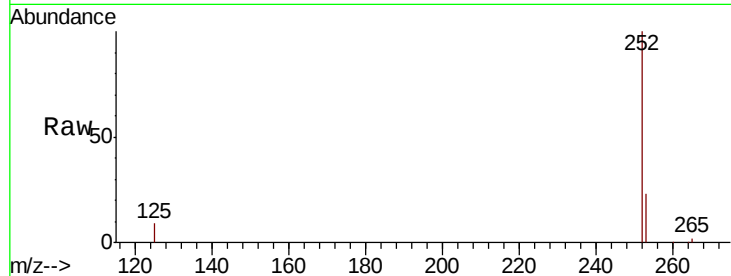
Tot Ion:252 Resp: 252488

Ion Ratio Lower Upper

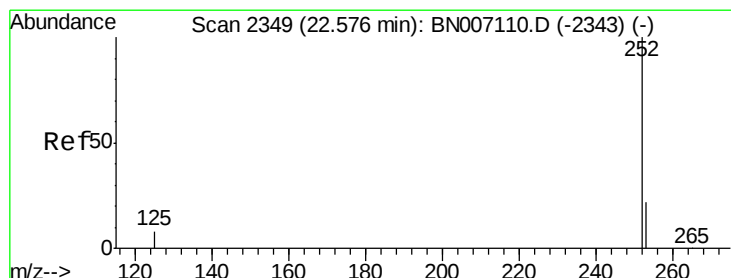
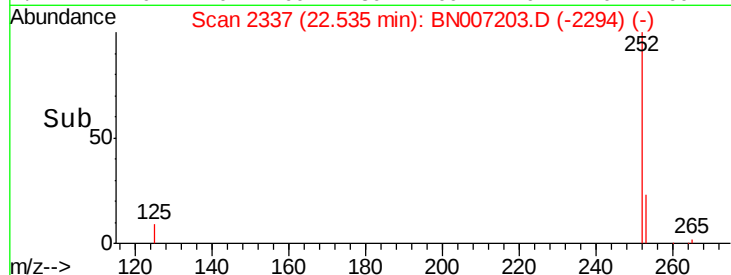
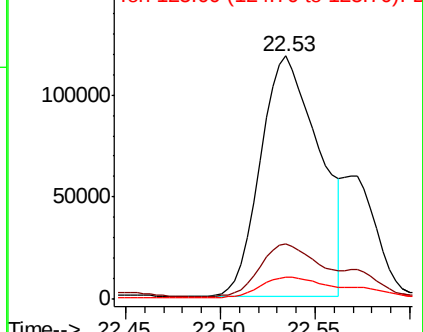
252 100

253 22.8 18.2 27.2

125 9.4 7.4 11.0



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



#34

Benzo(k)fluoranthene

Concen: 1.730 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.05 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

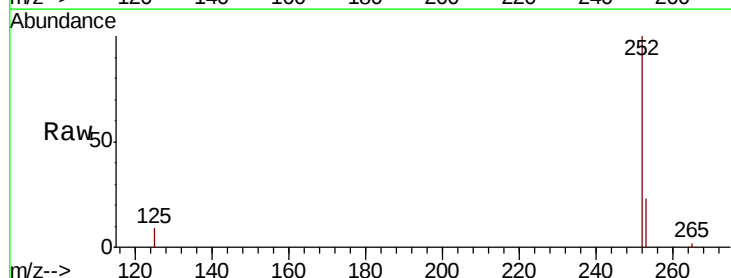
Tgt Ion:252 Resp: 252488

Ion Ratio Lower Upper

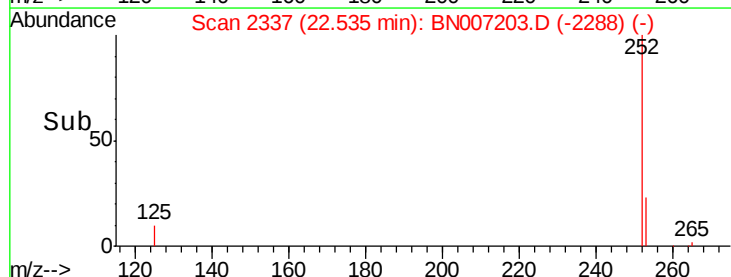
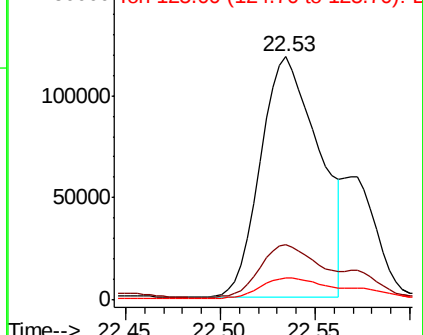
252 100

253 22.8 18.1 27.1

125 9.4 7.4 11.0



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





#35

Benzo(a)pyrene

Concen: 1.543 ng

RT: 23.06 min Scan# 2490

Delta R.T. -0.02 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

ClientSampleId :

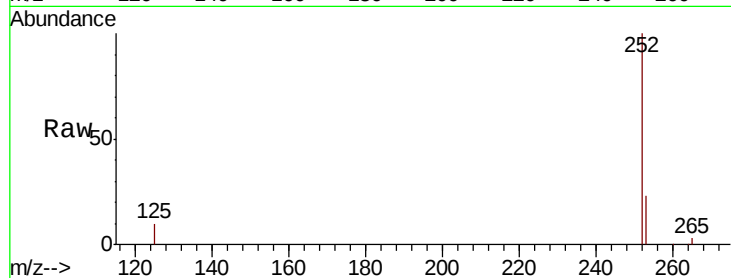
Tot Ion:252 Resp: 206688

Ion Ratio Lower Upper

252 100

253 22.6 18.5 27.7

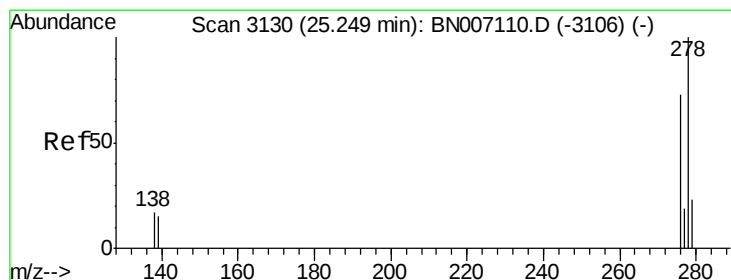
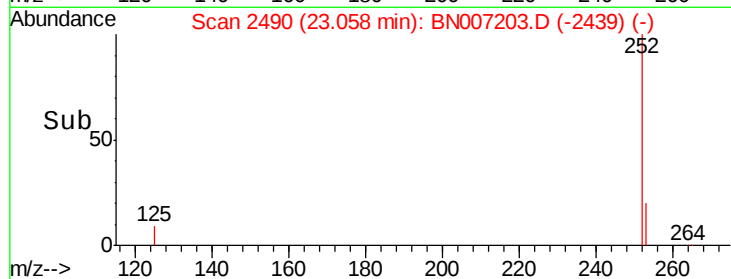
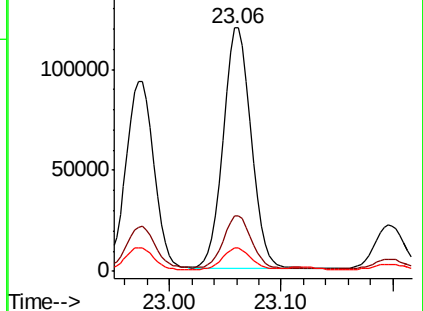
125 9.5 8.2 12.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Dibenzo(a,h)anthracene

Concen: 0.274 ng

RT: 25.24 min Scan# 3126

Delta R.T. -0.04 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

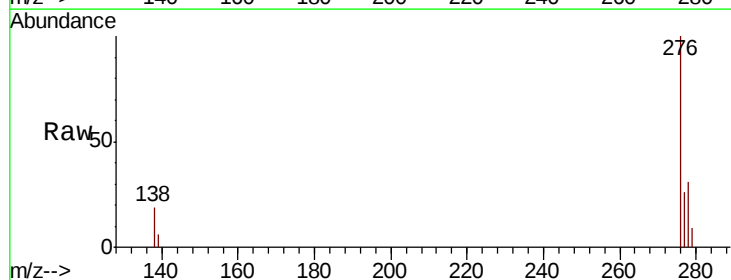
Tgt Ion:278 Resp: 36583

Ion Ratio Lower Upper

278 100

139 18.4 11.3 16.9#

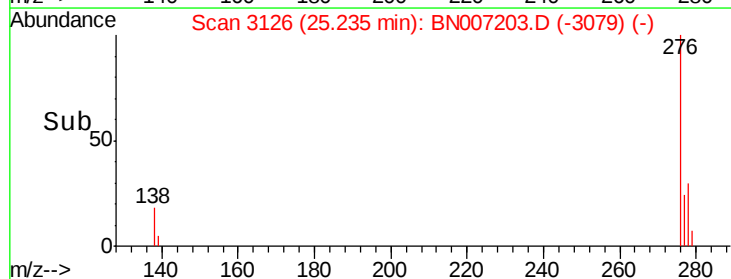
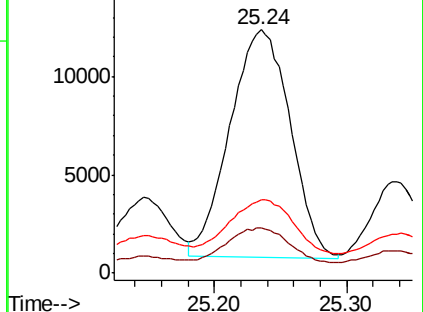
279 30.3 19.3 28.9#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#37

Benzo(a,h,i)perylene

Concen: 0.985 ng

RT: 25.85 min Scan# 3307

Delta R.T. -0.02 min

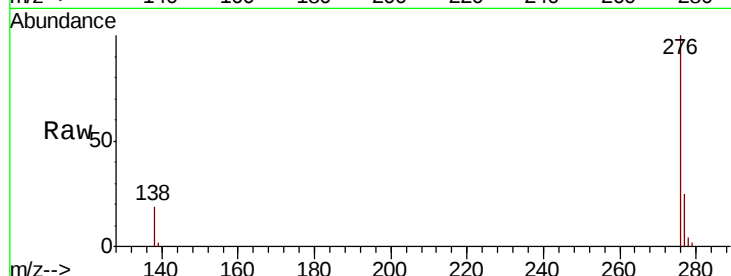
Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

ClientSampleId :



Tot Ion: 276 Resp: 135438

Ion Ratio Lower Upper

276 100

277 24.7 19.8 29.8

138 19.2 14.6 22.0

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

