

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081519\
 Data File : BN007194.D
 Acq On : 15 Aug 2019 13:45
 Operator : HP/JU
 Sample : K4173-20 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 16 02:41:41 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	7951	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	31563	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	18553	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	43171	0.40	ng	0.00
26) Chrysene-d12	21.05	240	42278	0.40	ng	-0.01
32) Perylene-d12	23.15	264	48725	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.05	112	2696	0.14	ng	0.00
4) Phenol-d6	6.61	99	3587	0.15	ng	0.00
7) Nitrobenzene-d5	8.55	82	2904	0.11	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	6409	0.11	ng	-0.01
13) 2,4,6-Tribromophenol	15.57	330	1031	0.10	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	1111	0.04	ng	0.00
24) Fluoranthene-d10	18.86	212	17724	0.12	ng	-0.01
28) Terphenyl-d14	19.48	244	12701	0.11	ng	-0.01

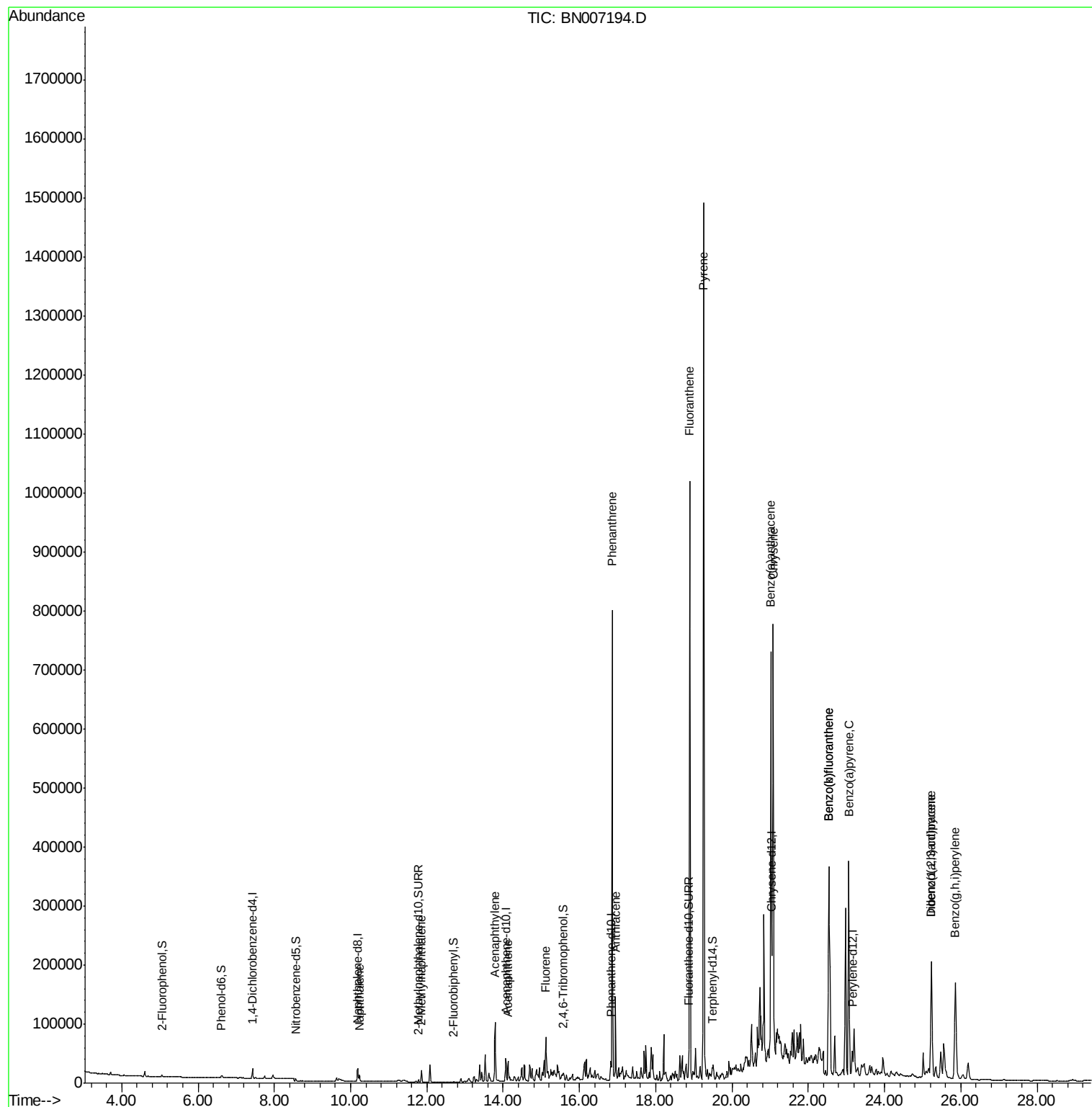
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.23	128	13973	0.158	ng	99
11) 2-Methylnaphthalene	11.86	142	15452	0.246	ng	98
15) Acenaphthylene	13.79	152	121624	1.254	ng	99
16) Acenaphthene	14.13	154	17030	0.274	ng	87
17) Fluorene	15.12	166	45486	0.489	ng	88
22) Phenanthrene	16.87	178	886612	6.853	ng	100
23) Anthracene	16.95	178	133736	1.131	ng	98
25) Fluoranthene	18.90	202	949527	5.737	ng	99
27) Pyrene	19.26	202	1350763	9.110	ng	97
29) Benzo(a)anthracene	21.02	228	553317	3.579	ng	92
30) Chrysene	21.08	228	651233	4.335	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	293515	1.773	ng	99
33) Benzo(b)fluoranthene	22.54	252	596184	3.568	ng	100
34) Benzo(k)fluoranthene	22.54	252	596184	3.613	ng	99
35) Benzo(a)pyrene	23.06	252	474891	3.135	ng	99
36) Dibenzo(a,h)anthracene	25.24	278	85497	0.566	ng	# 89
37) Benzo(a,h,i)perylene	25.86	276	337883	2.173	ng	99

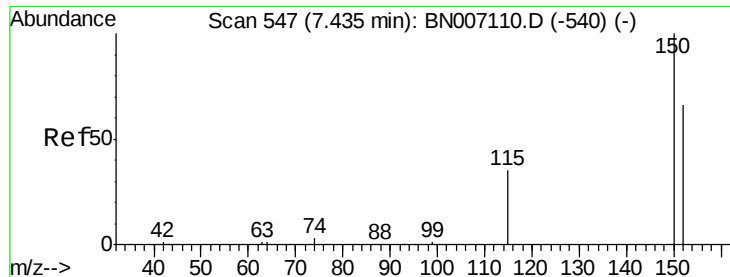
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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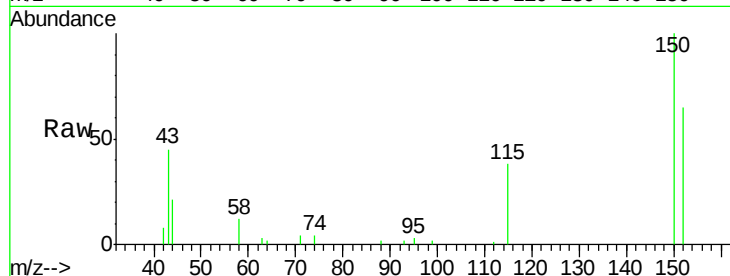


#1

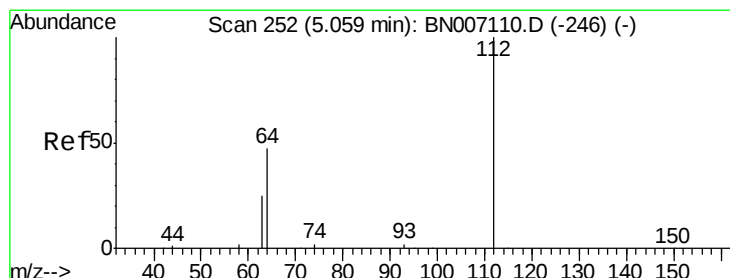
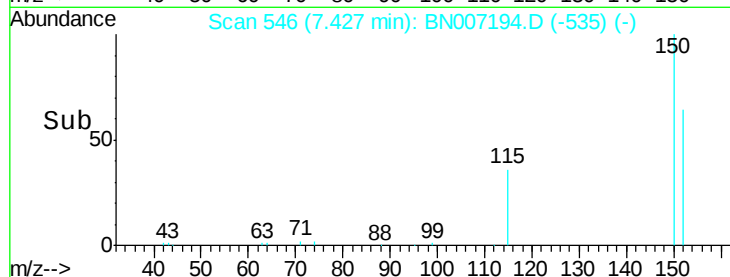
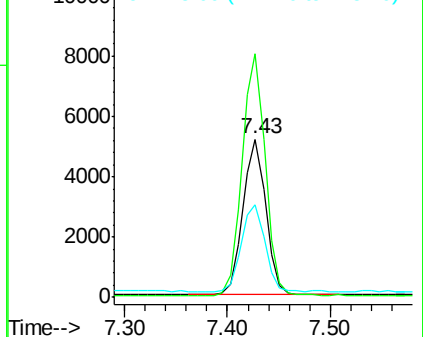
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007194.D
Acq: 15 Aug 2019 13:45

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 7951
Ion Ratio Lower Upper
152 100
150 153.8 121.7 182.5
115 58.9 46.2 69.4



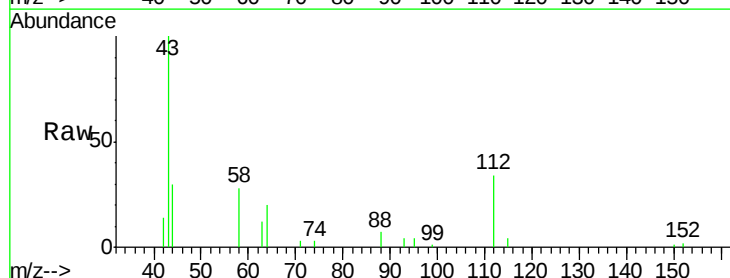
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



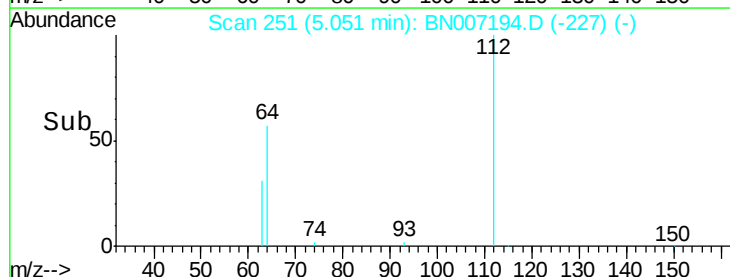
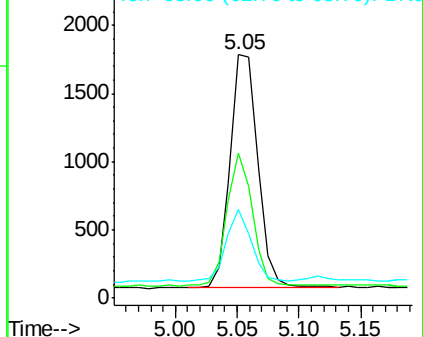
#3

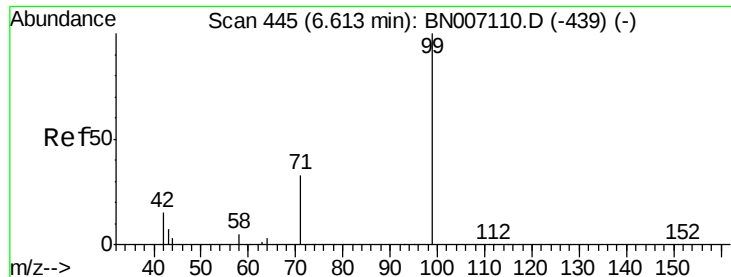
2-Fluorophenol
Concen: 0.141 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007194.D
Acq: 15 Aug 2019 13:45

Tgt Ion:112 Resp: 2696
Ion Ratio Lower Upper
112 100
64 52.0 42.6 63.8
63 27.9 22.2 33.2



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





#4

Phenol-d6

Concen: 0.152 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

Instrument :

BNA_N

ClientSampleId :

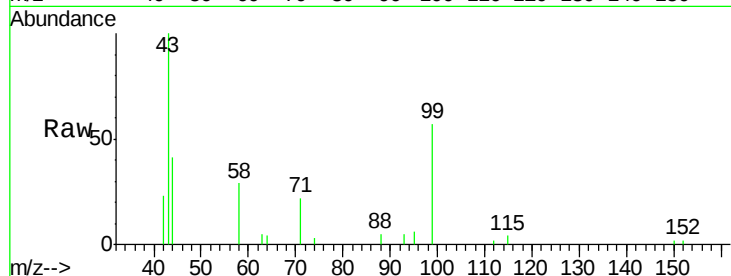
Tot Ion: 99 Resp: 3587

Ion Ratio Lower Upper

99 100

42 24.9 15.8 23.6#

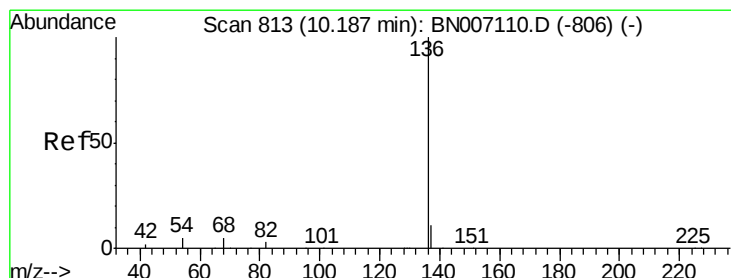
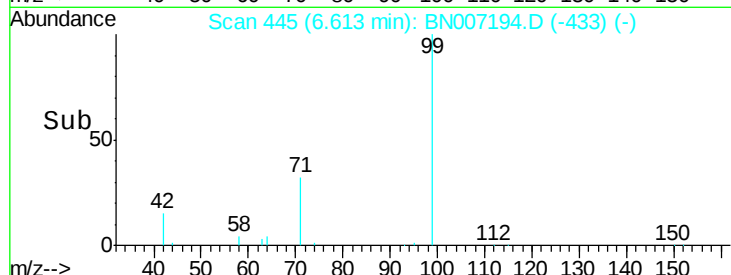
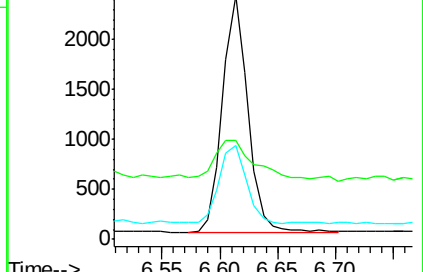
71 35.6 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007110.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007110.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007110.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

Tgt Ion: 136 Resp: 31563

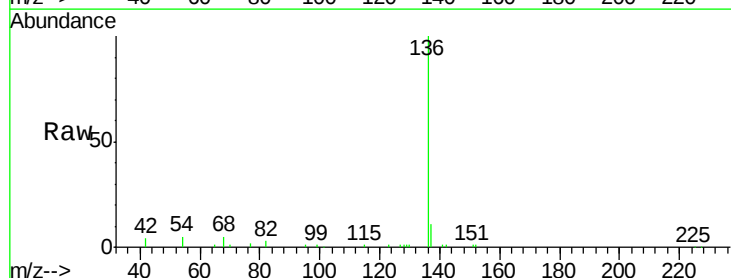
Ion Ratio Lower Upper

136 100

137 11.3 9.4 14.0

54 4.6 6.6 9.8#

68 4.8 6.0 9.0#

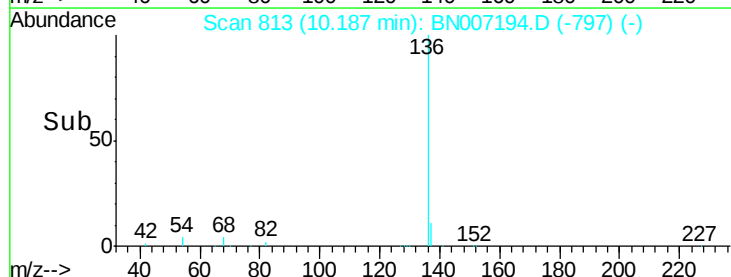
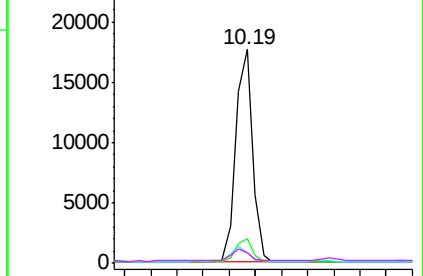


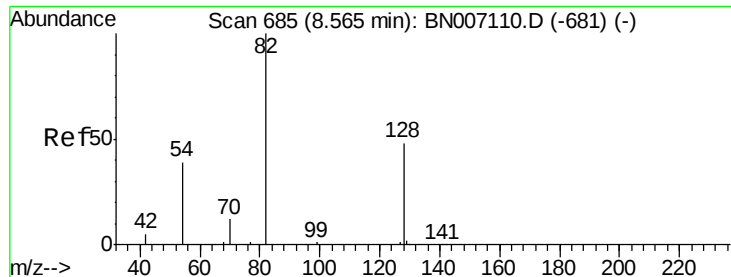
Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

Ion 137.00 (136.70 to 137.70): BN007110.D (-806) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-806) (-)

Ion 68.00 (67.70 to 68.70): BN007110.D (-806) (-)





#7

Nitrobenzene-d5

Concen: 0.114 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

Instrument :

BNA_N

ClientSampleId :

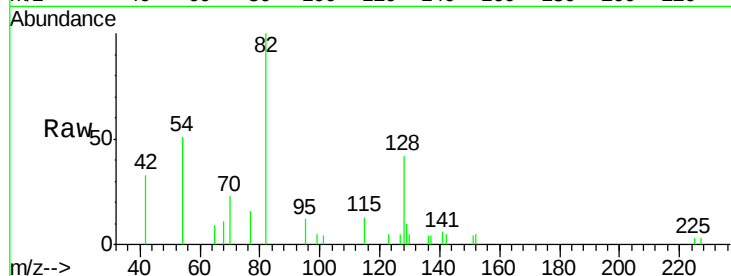
Tot Ion: 82 Resp: 2904

Ion Ratio Lower Upper

82 100

128 41.9 34.6 51.8

54 51.2 36.2 54.4

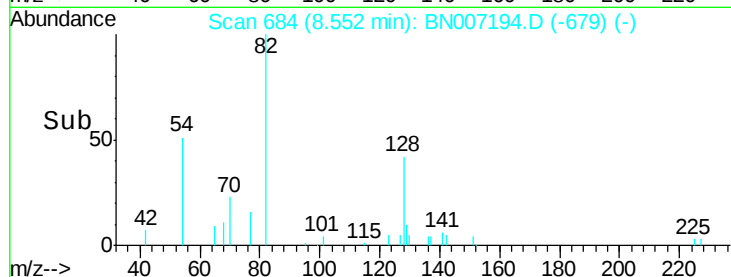


Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

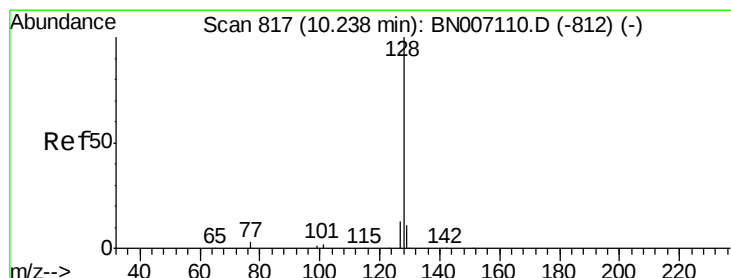
Ion 128.00 (127.70 to 128.70): BN007110.D (-681) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-681) (-)

Time-->



Time-->



#8

Naphthalene

Concen: 0.158 ng

RT: 10.23 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

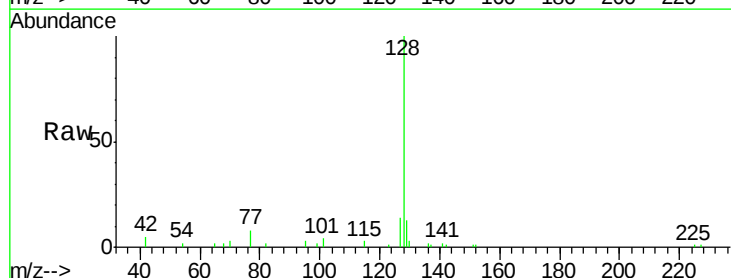
Tgt Ion: 128 Resp: 13973

Ion Ratio Lower Upper

128 100

129 12.5 9.4 14.2

127 14.2 11.0 16.6

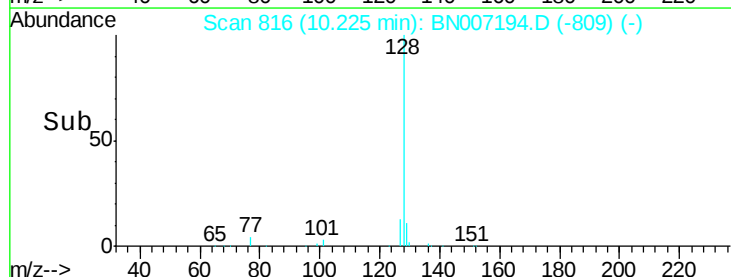


Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

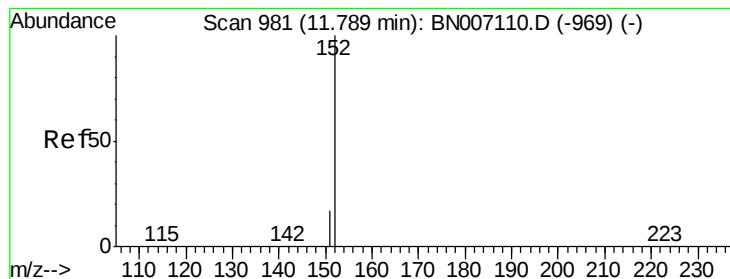
Ion 129.00 (128.70 to 129.70): BN007110.D (-812) (-)

Ion 127.00 (126.70 to 127.70): BN007110.D (-812) (-)

Time-->



Time-->



#10

2-Methylnaphthalene-d10

Concen: 0.109 ng

RT: 11.78 min Scan# 979

Delta R.T. -0.01 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

Instrument :

BNA_N

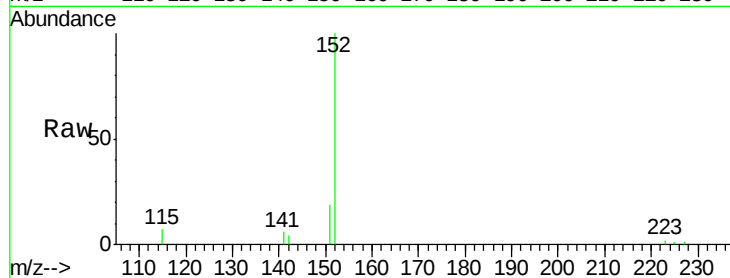
ClientSampleId :

Tot Ion:152 Resp: 6409

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

11.78

4000

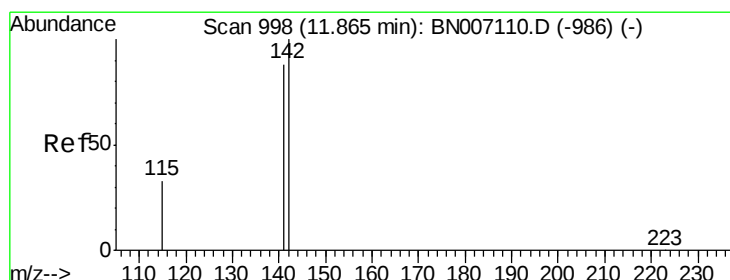
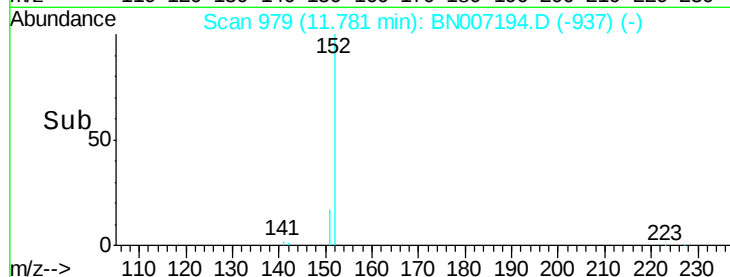
3000

2000

1000

0

Time--> 11.70 11.75 11.80 11.85



#11

2-Methylnaphthalene

Concen: 0.246 ng

RT: 11.86 min Scan# 997

Delta R.T. -0.01 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

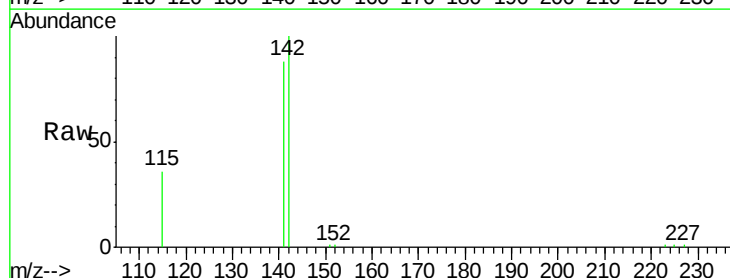
Tgt Ion:142 Resp: 15452

Ion Ratio Lower Upper

142 100

141 88.4 69.0 103.6

115 35.7 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

11.86

12000

10000

8000

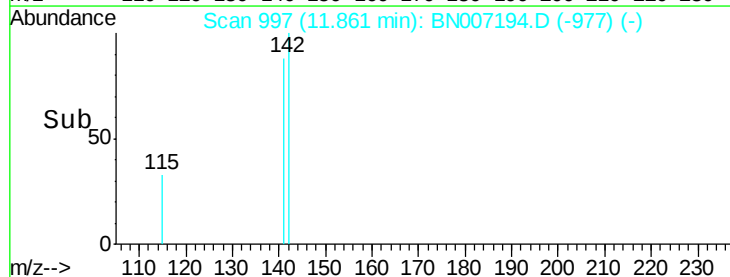
6000

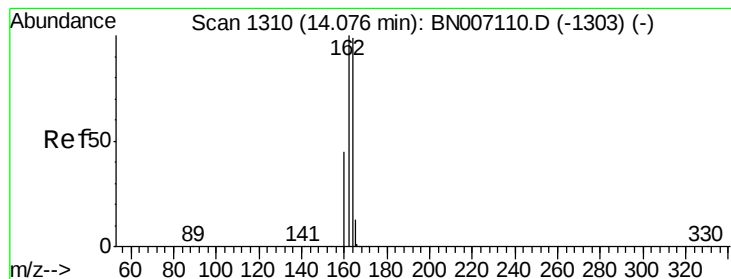
4000

2000

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: BN007194.D

Acq: 15 Aug 2019 13:45

Instrument :

BNA_N

ClientSampleId :

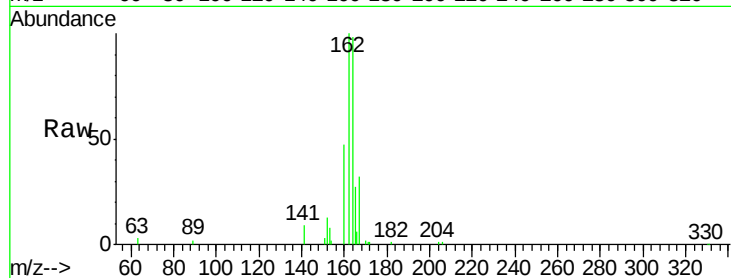
Tot Ion:164 Resp: 18553

Ion Ratio Lower Upper

164 100

162 102.3 82.2 123.4

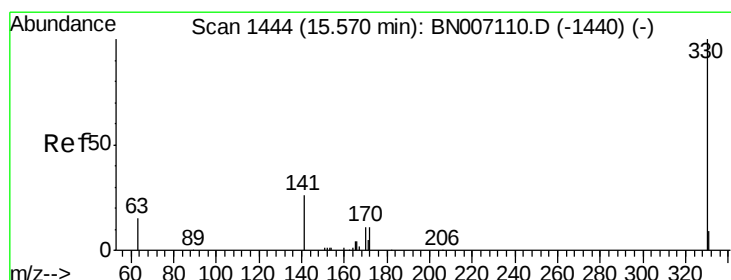
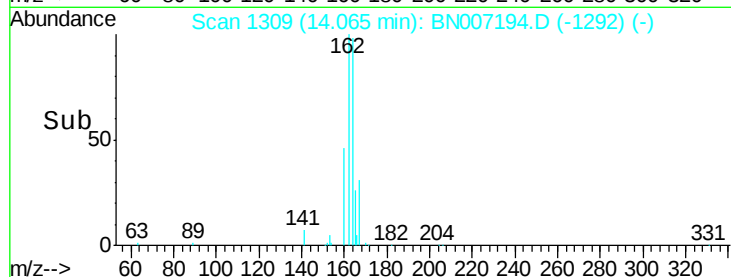
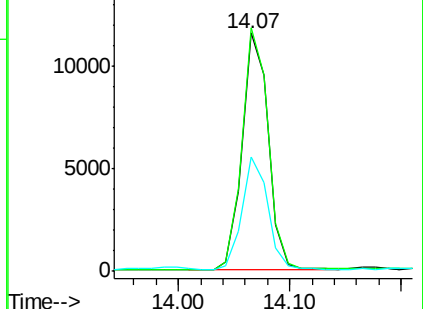
160 47.8 38.3 57.5



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: 0.103 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

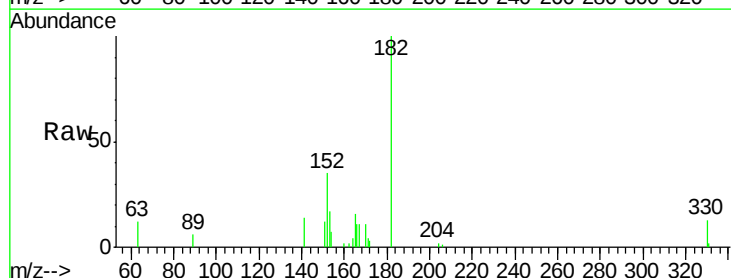
Tgt Ion:330 Resp: 1031

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

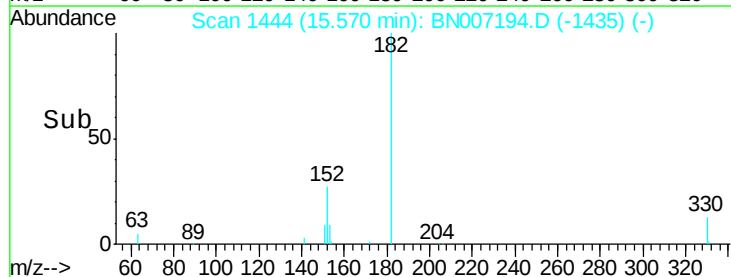
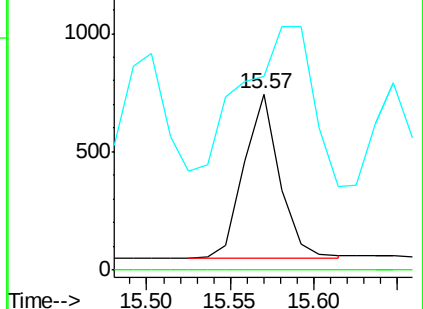
141 0.0 33.6 50.4#

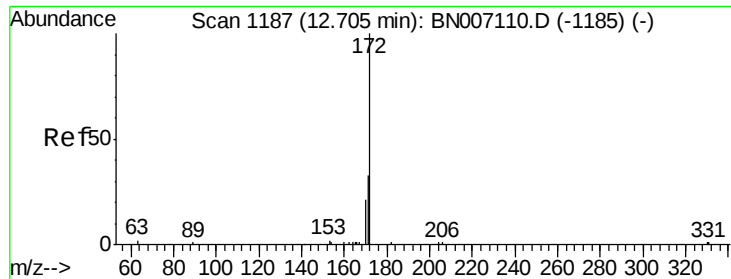


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

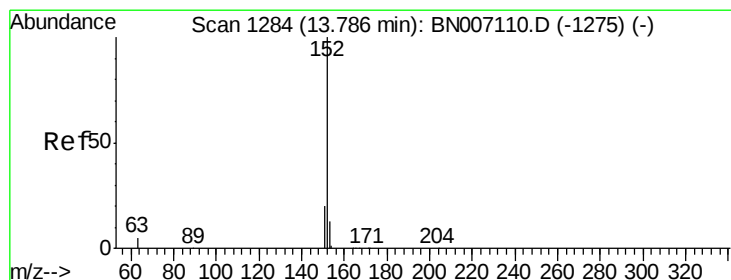
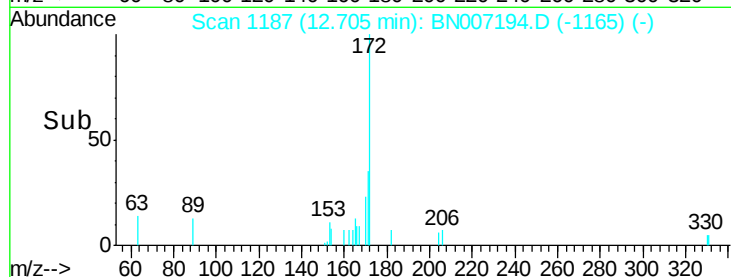
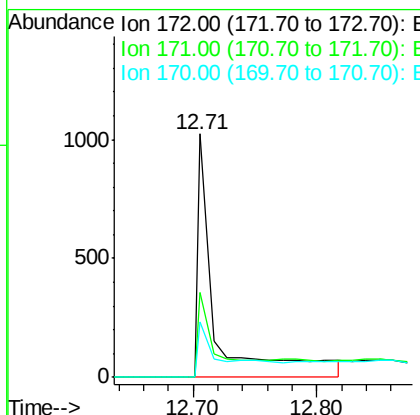
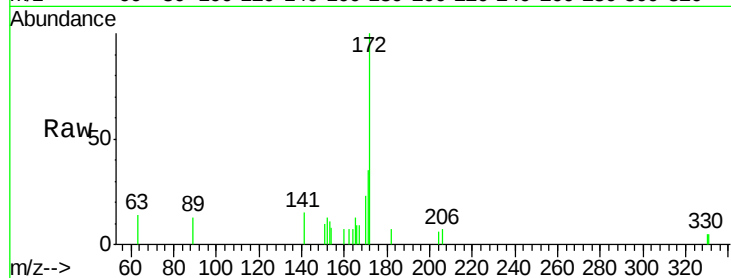




#14
2-Fluorobiphenyl
Concen: 0.041 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007194.D
Acq: 15 Aug 2019 13:45

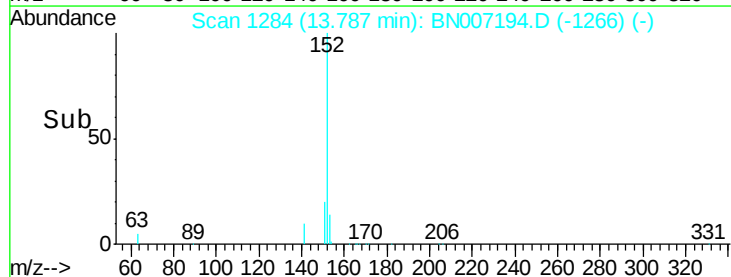
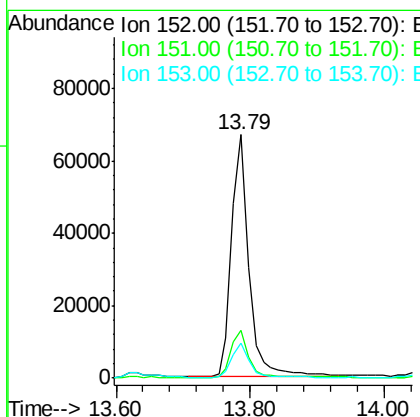
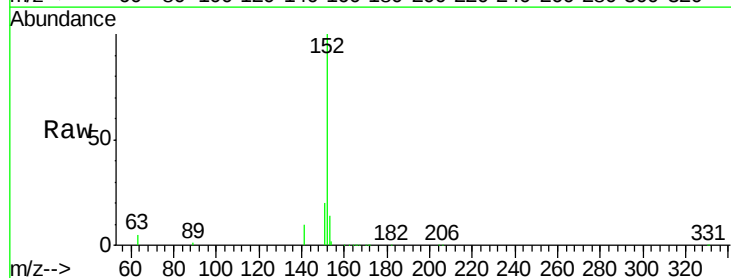
Instrument :
BNA_N
ClientSampled :

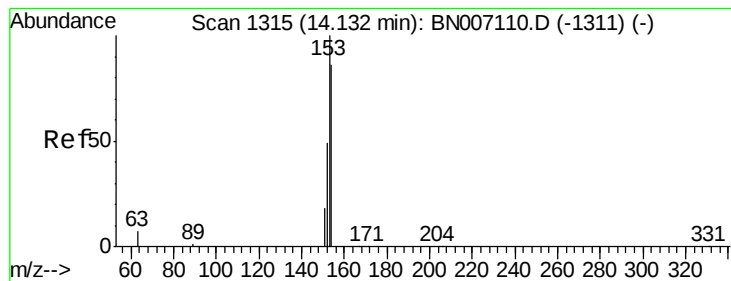
Tot Ion:172 Resp: 1111
Ion Ratio Lower Upper
172 100
171 35.1 26.3 39.5
170 22.9 17.0 25.4



#15
Acenaphthylene
Concen: 1.254 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007194.D
Acq: 15 Aug 2019 13:45

Tgt Ion:152 Resp: 121624
Ion Ratio Lower Upper
152 100
151 19.9 15.8 23.6
153 14.1 10.4 15.6





#16

Acenaphthene

Concen: 0.274 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

Instrument :

BNA_N

ClientSampleId :

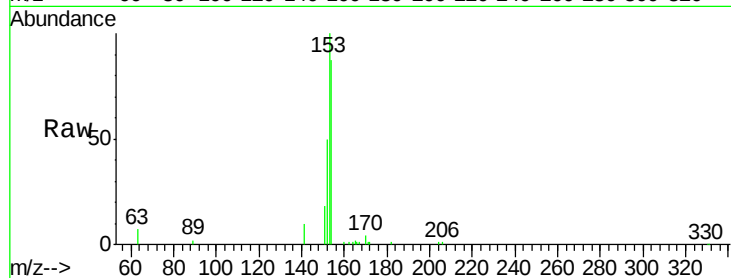
Tot Ion:154 Resp: 17030

Ion Ratio Lower Upper

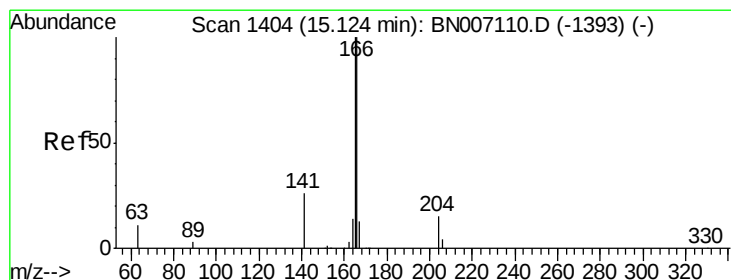
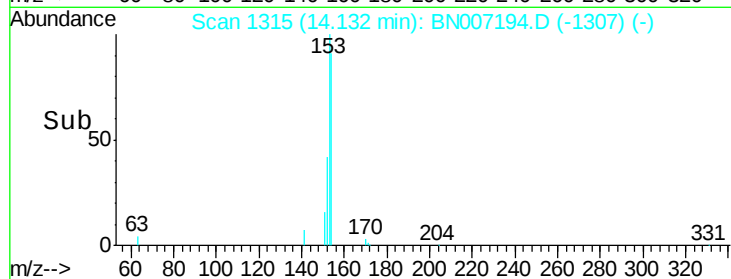
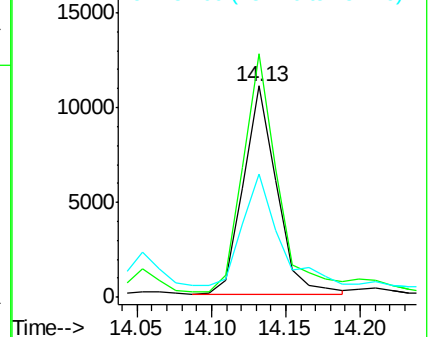
154 100

153 125.7 89.5 134.3

152 65.2 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: 0.489 ng

RT: 15.12 min Scan# 1404

Delta R.T. -0.01 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

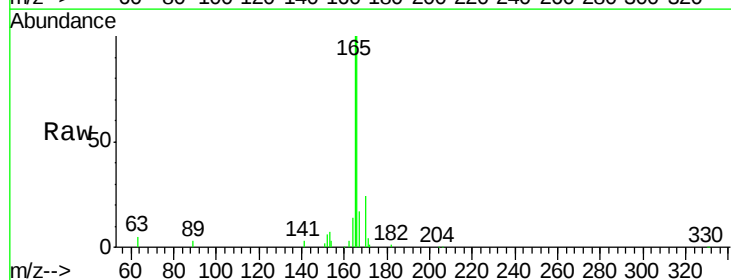
Tgt Ion:166 Resp: 45486

Ion Ratio Lower Upper

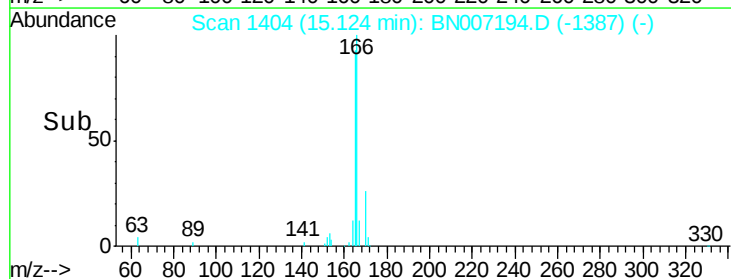
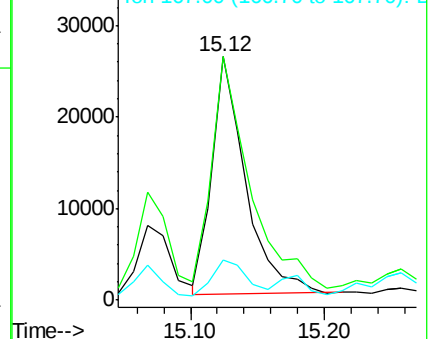
166 100

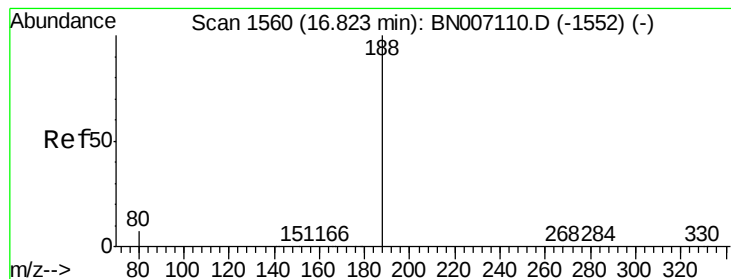
165 109.7 77.9 116.9

167 15.6 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: BN007194.D

Acq: 15 Aug 2019 13:45

Instrument :

BNA_N

ClientSampleId :

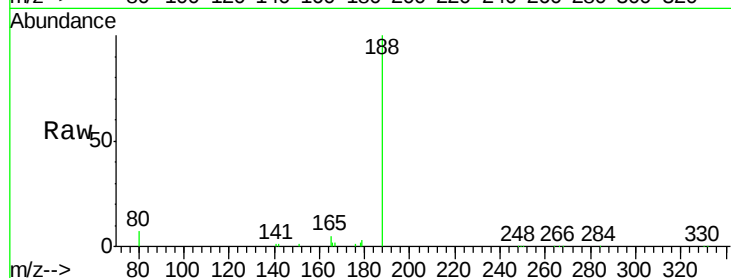
Tot Ion:188 Resp: 43171

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

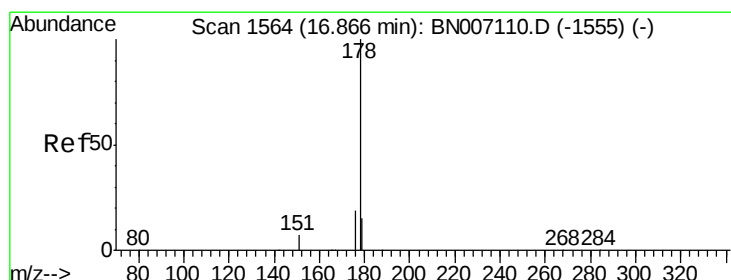
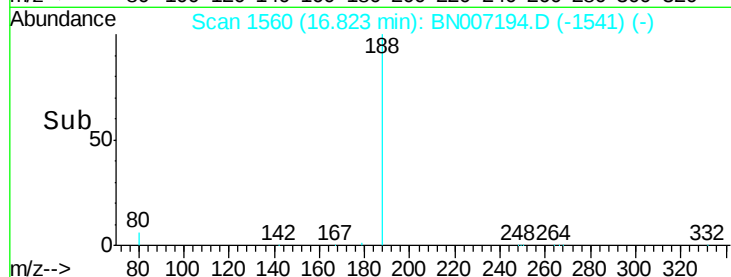
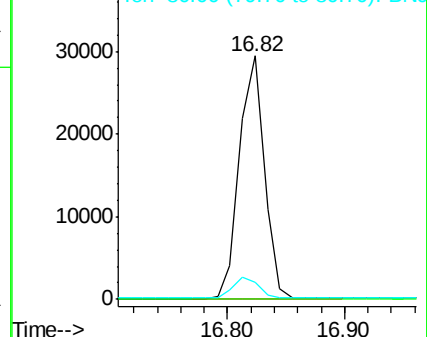
80 6.8 7.8 11.6#



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: 6.853 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

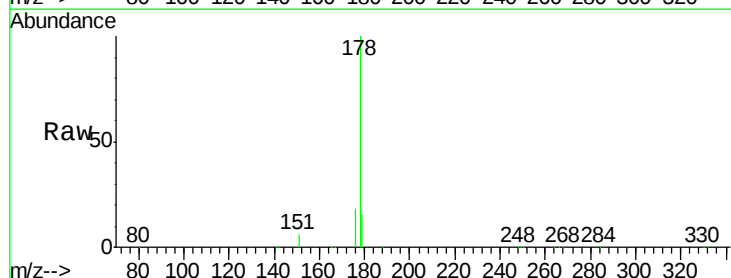
Tgt Ion:178 Resp: 886612

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

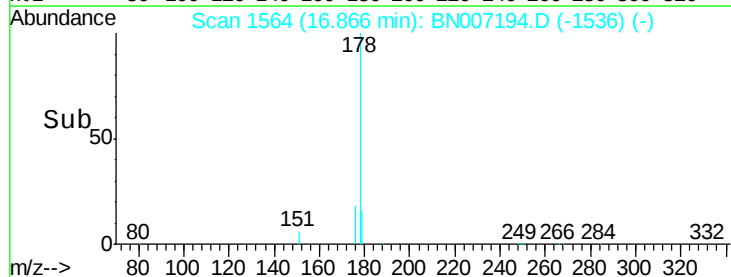
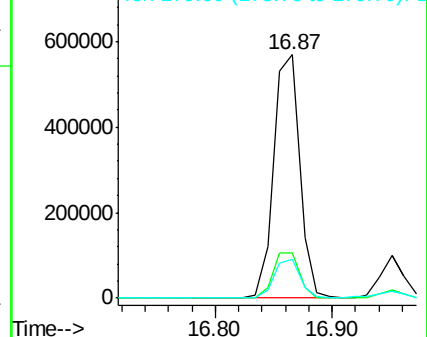
179 15.5 12.3 18.5

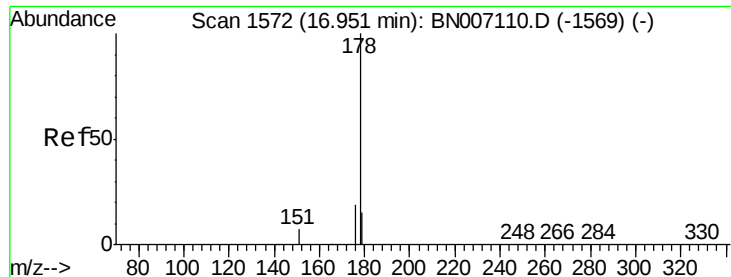


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 1.131 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

Instrument :

BNA_N

ClientSampleId :

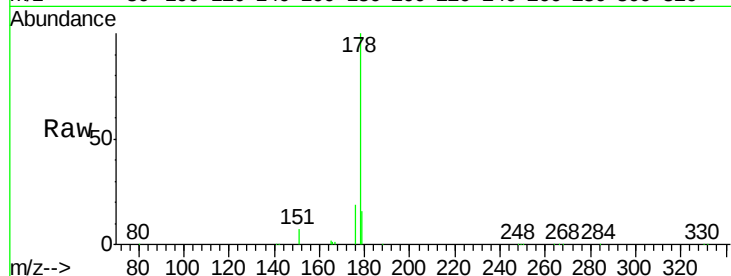
Tot Ion:178 Resp: 133736

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

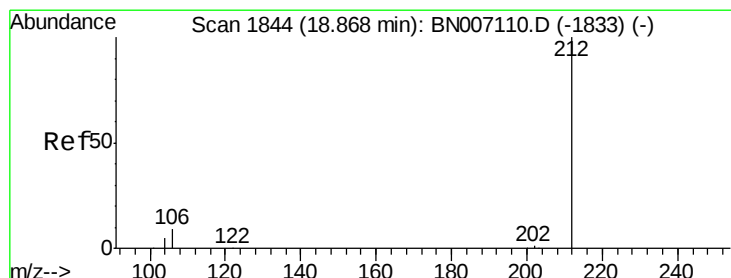
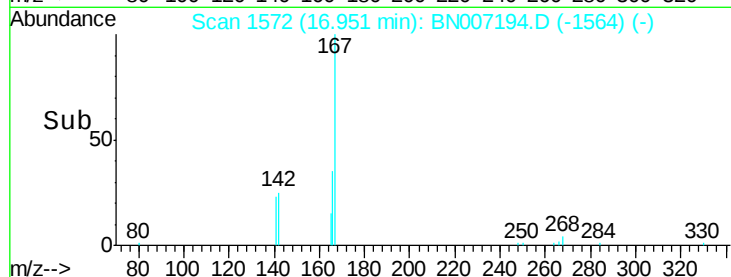
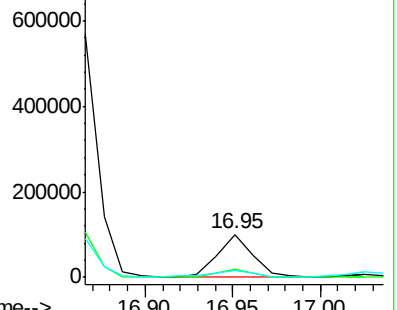
179 17.0 12.5 18.7



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: 0.116 ng

RT: 18.86 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

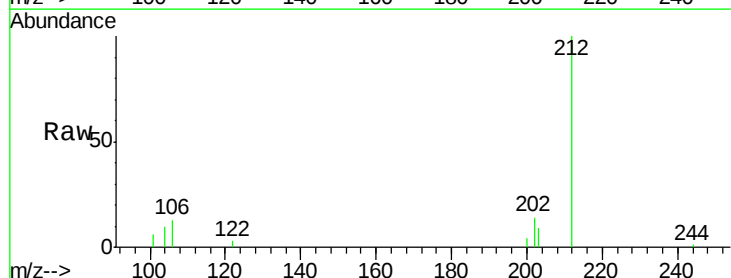
Tgt Ion:212 Resp: 17724

Ion Ratio Lower Upper

212 100

106 9.9 8.2 12.2

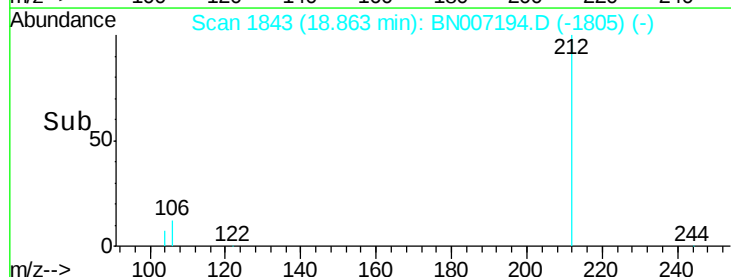
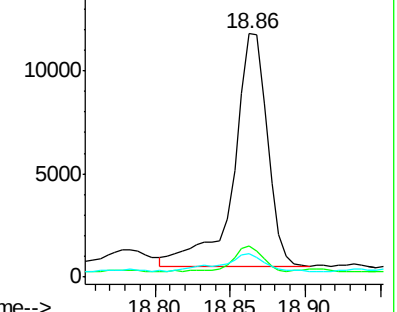
104 9.0 4.5 6.7#

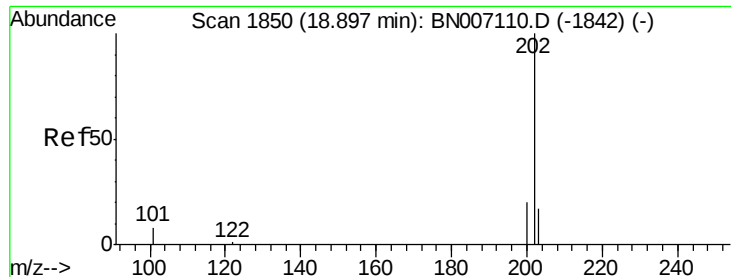


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 5.737 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

Instrument :

BNA_N

ClientSampleId :

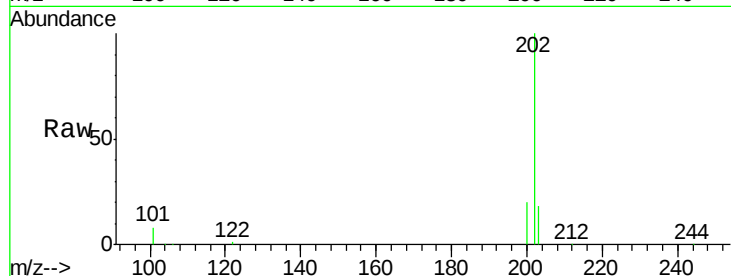
Tot Ion:202 Resp: 949527

Ion Ratio Lower Upper

202 100

101 9.1 7.0 10.4

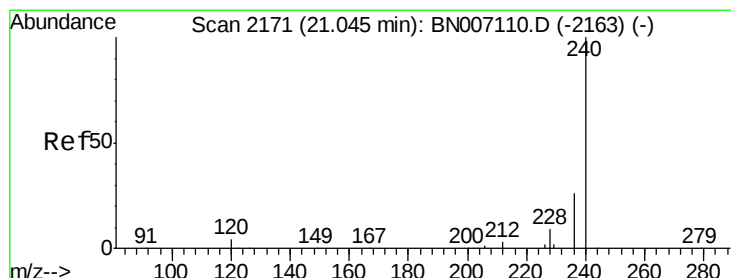
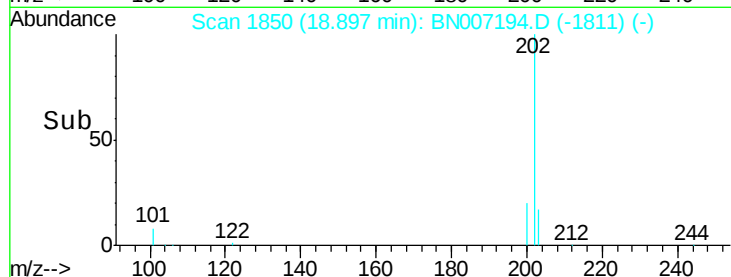
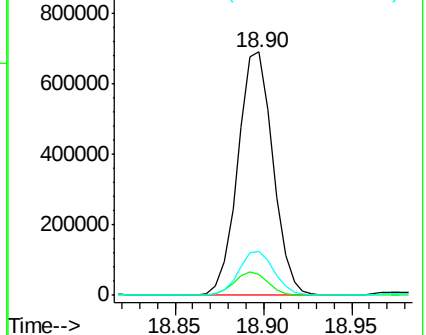
203 18.0 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#26

Chrysene-d12

Concen: 0.400 ng

RT: 21.05 min Scan# 2171

Delta R.T. -0.01 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

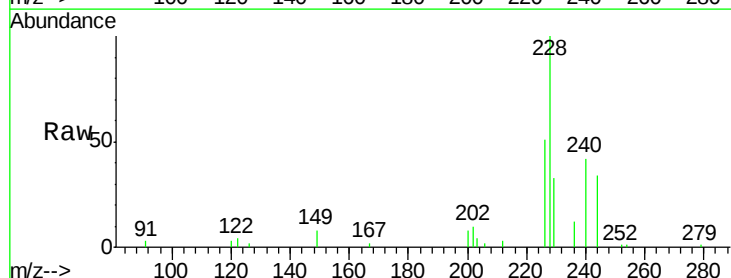
Tgt Ion:240 Resp: 42278

Ion Ratio Lower Upper

240 100

120 6.8 4.0 6.0#

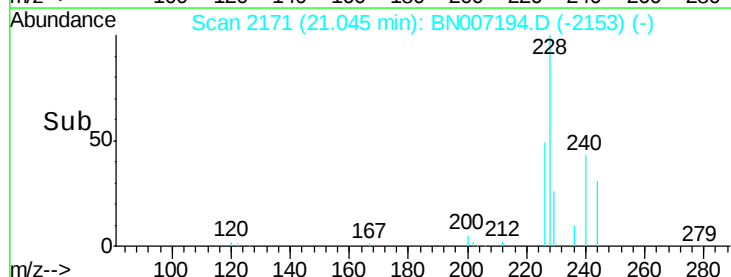
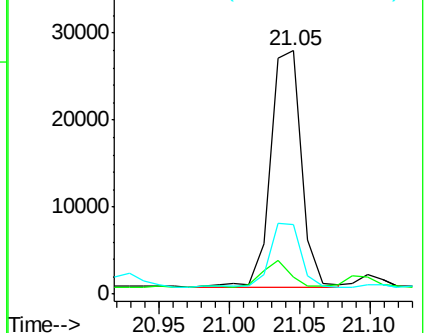
236 28.4 21.3 31.9

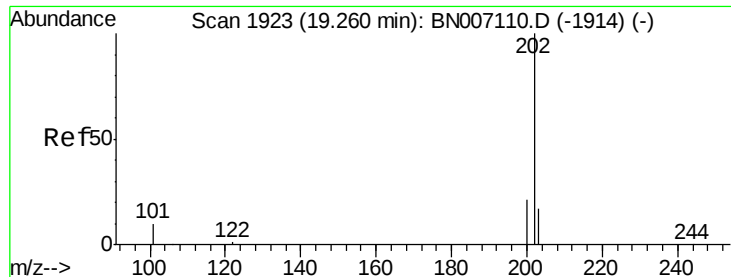


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Pvrene

Concen: 9.110 ng

RT: 19.26 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

Instrument :

BNA_N

ClientSampleId :

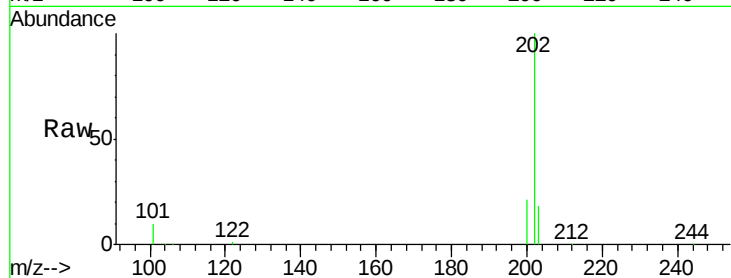
Tot Ion:202 Resp: 1350763

Ion Ratio Lower Upper

202 100

200 20.8 16.6 24.8

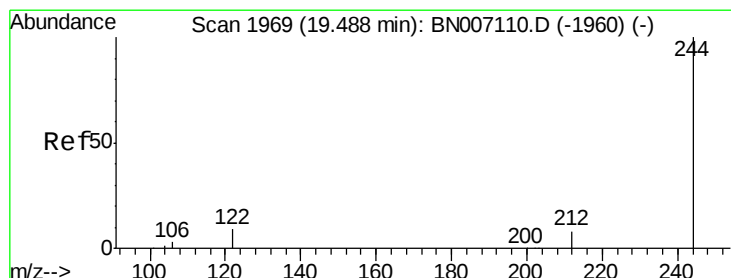
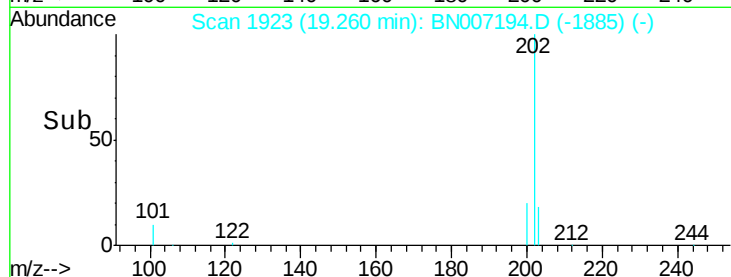
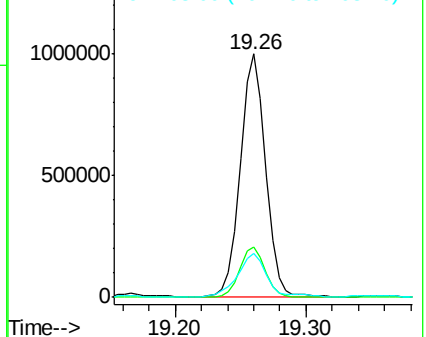
203 20.2 14.0 21.0



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: 0.110 ng

RT: 19.48 min Scan# 1968

Delta R.T. -0.01 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

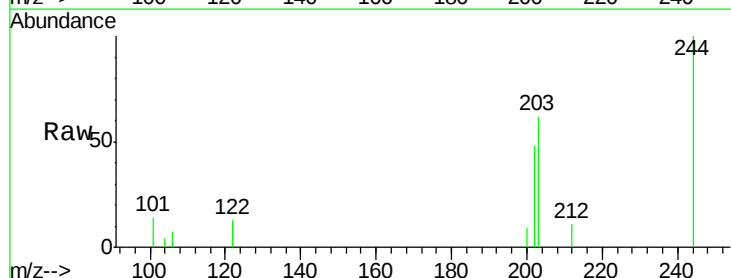
Tgt Ion:244 Resp: 12701

Ion Ratio Lower Upper

244 100

212 11.1 6.2 9.2#

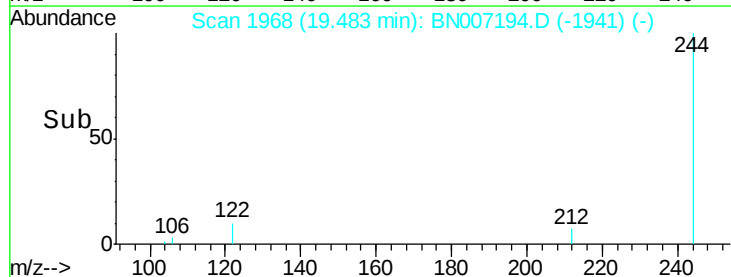
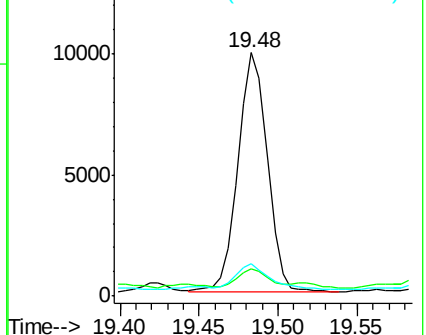
122 13.4 7.4 11.2#

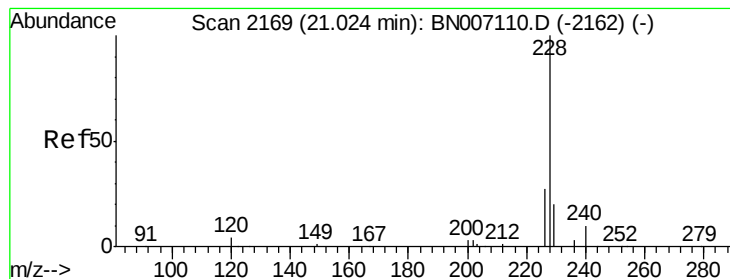


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#29

Benzo(a)anthracene

Concen: 3.579 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

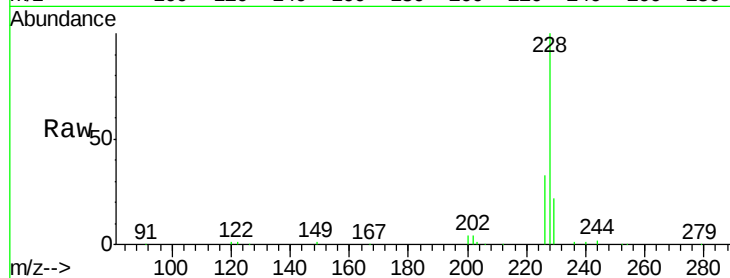
Instrument :

BNA_N

ClientSampleId :

Tot Ion:228 Resp: 553317

Ion	Ratio	Lower	Upper
228	100		
226	32.5	21.8	32.6
229	21.6	15.6	23.4

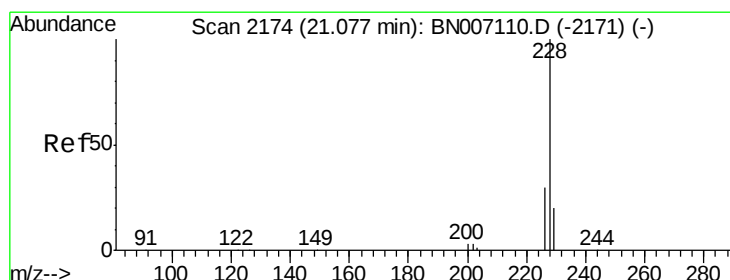
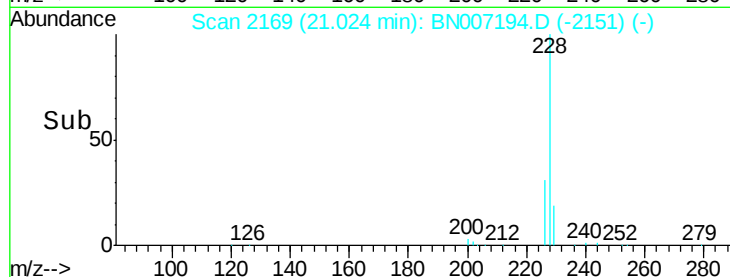
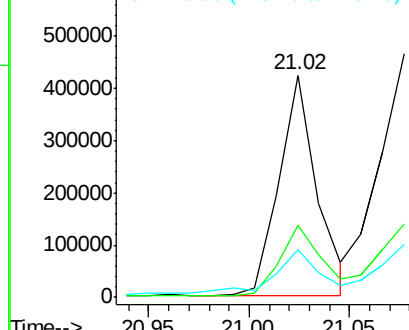


Abundance

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: 4.335 ng

RT: 21.08 min Scan# 2174

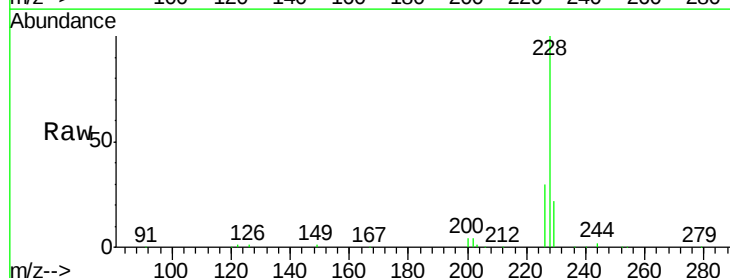
Delta R.T. -0.01 min

Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

Tgt Ion:228 Resp: 651233

Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.8	35.6
229	21.9	15.7	23.5

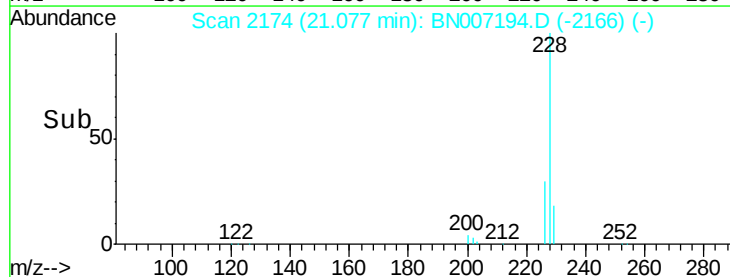
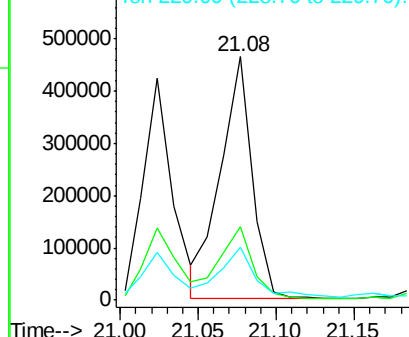


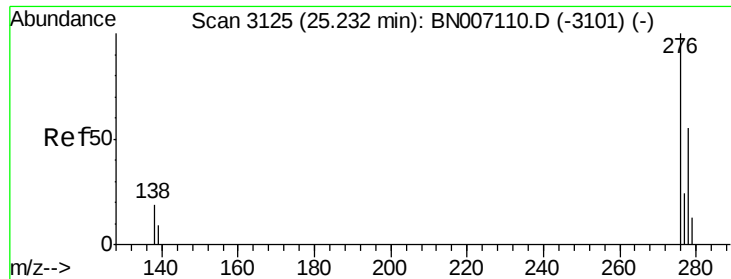
Abundance

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

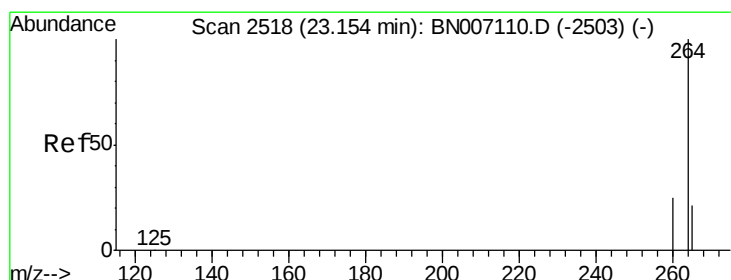
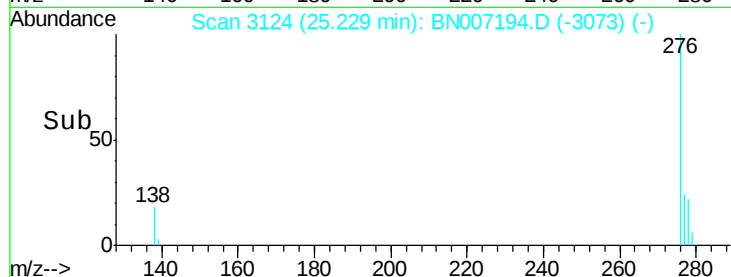
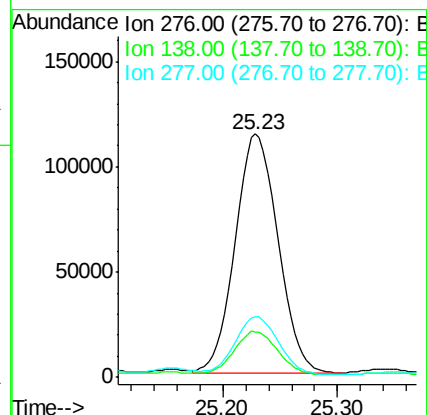
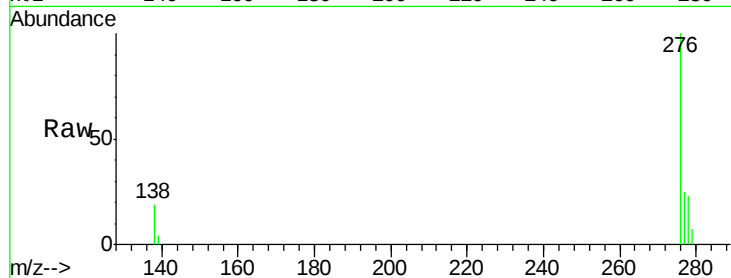




#31
Indeno(1,2,3-cd)pyrene
Concen: 1.773 ng
RT: 25.23 min Scan# 3124
Delta R.T. -0.02 min
Lab File: BN007194.D
Acq: 15 Aug 2019 13:45

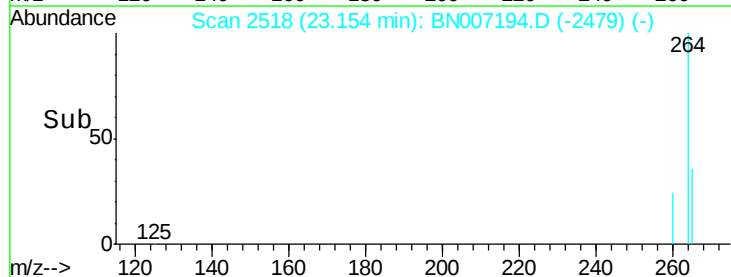
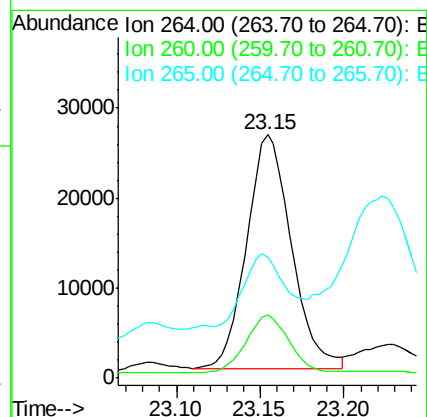
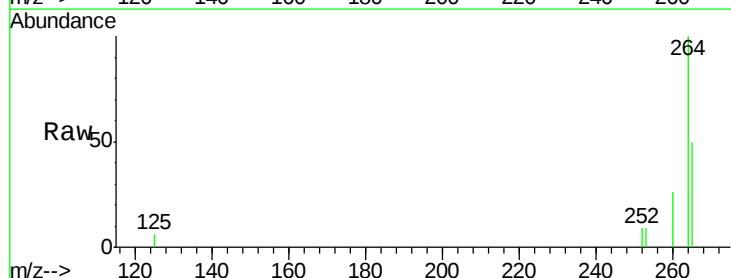
Instrument :
BNA_N
ClientSampleId :

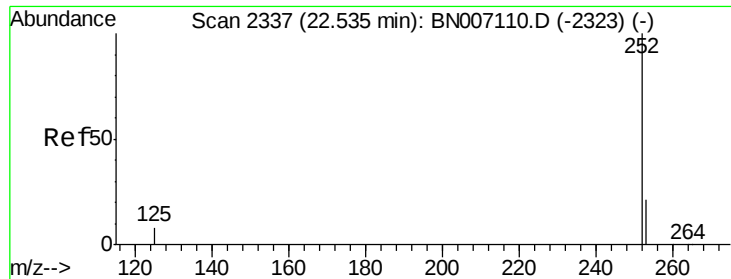
Tot Ion	Ratio	Lower	Upper
276	100		
138	18.6	16.0	24.0
277	24.9	19.9	29.9



#32
Perylene-d12
Concen: 0.400 ng
RT: 23.15 min Scan# 2518
Delta R.T. -0.02 min
Lab File: BN007194.D
Acq: 15 Aug 2019 13:45

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.9	19.8	29.8
265	49.6	26.2	39.4

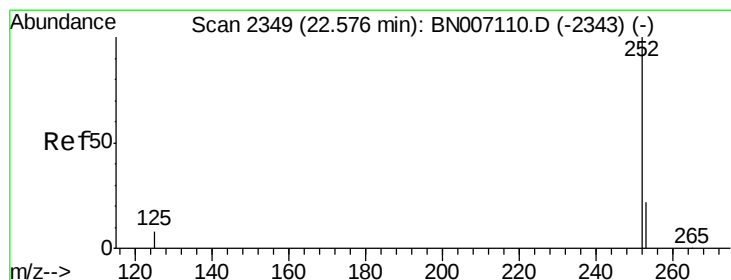
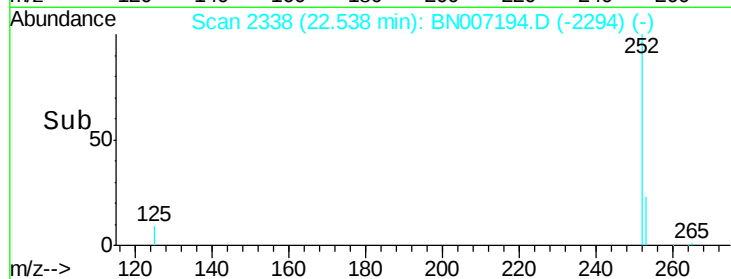
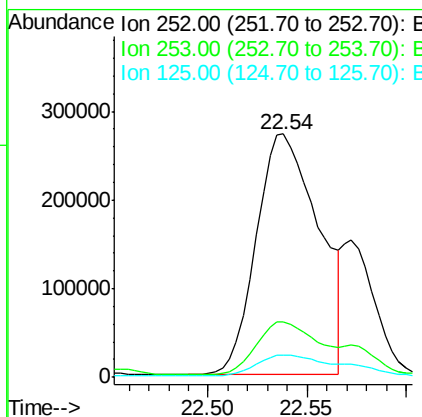
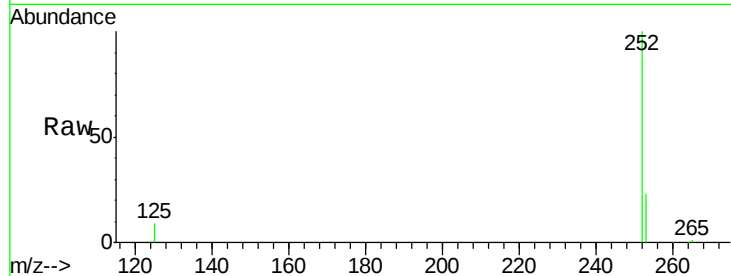




#33
Benzo(b)fluoranthene
Concen: 3.568 ng
RT: 22.54 min Scan# 2338
Delta R.T. -0.01 min
Lab File: BN007194.D
Acq: 15 Aug 2019 13:45

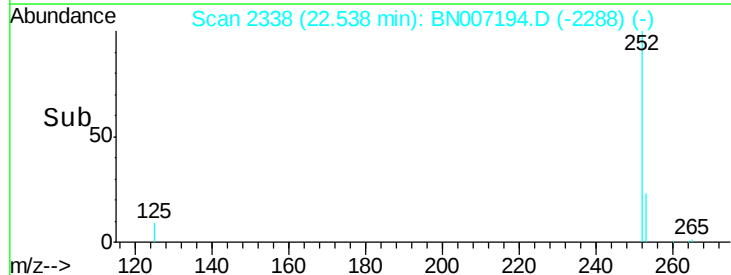
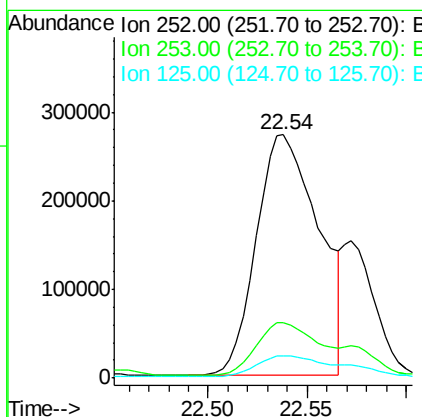
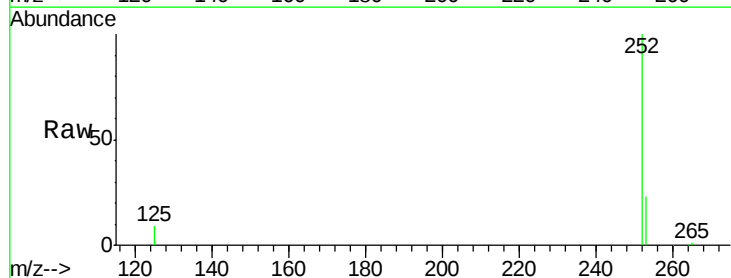
Instrument :
BNA_N
ClientSampleId :

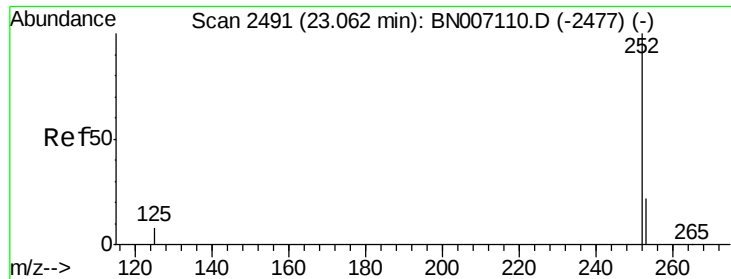
Tot Ion:252 Resp: 596184
Ion Ratio Lower Upper
252 100
253 22.9 18.2 27.2
125 9.3 7.4 11.0



#34
Benzo(k)fluoranthene
Concen: 3.613 ng
RT: 22.54 min Scan# 2338
Delta R.T. -0.05 min
Lab File: BN007194.D
Acq: 15 Aug 2019 13:45

Tgt Ion:252 Resp: 596184
Ion Ratio Lower Upper
252 100
253 22.9 18.1 27.1
125 9.3 7.4 11.0

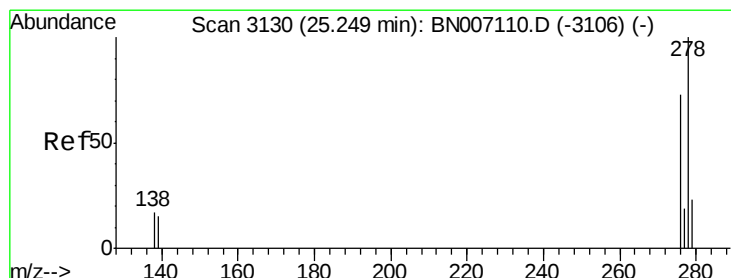
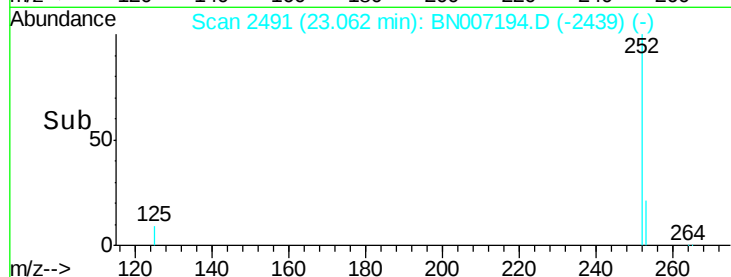
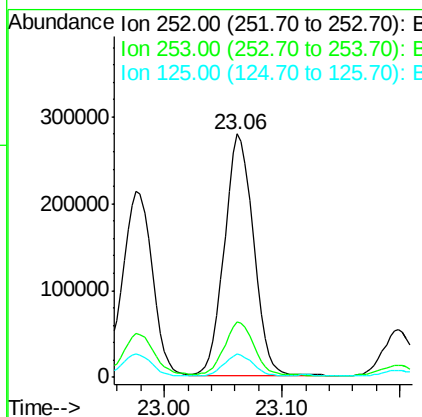
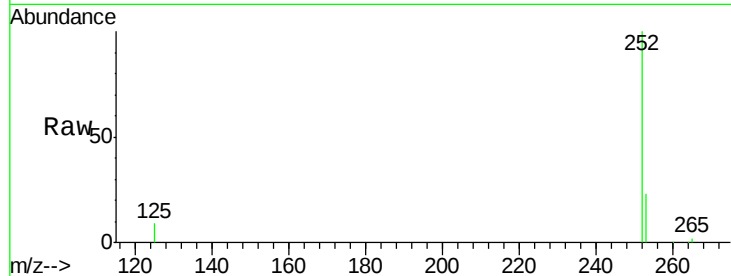




#35
Benzo(a)pyrene
Concen: 3.135 ng
RT: 23.06 min Scan# 2491
Delta R.T. -0.02 min
Lab File: BN007194.D
Acq: 15 Aug 2019 13:45

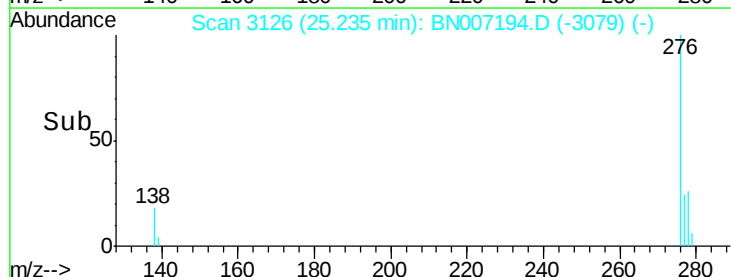
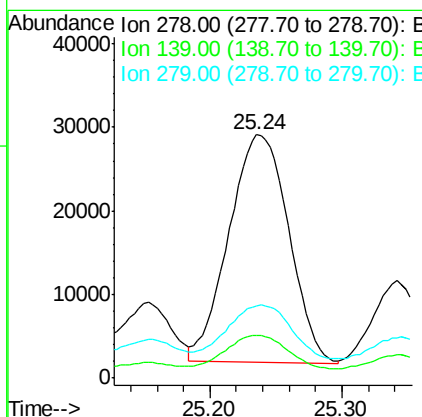
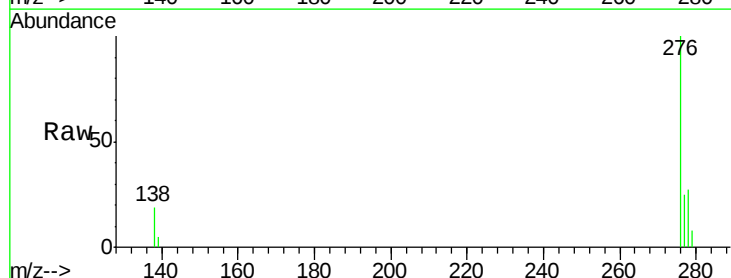
Instrument :
BNA_N
ClientSampleId :

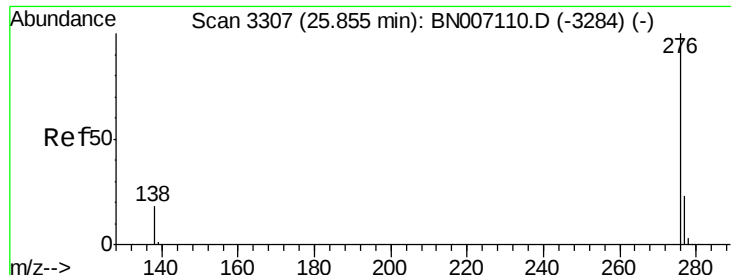
Tot Ion:252 Resp: 474891
Ion Ratio Lower Upper
252 100
253 22.6 18.5 27.7
125 9.4 8.2 12.4



#36
Dibenzo(a,h)anthracene
Concen: 0.566 ng
RT: 25.24 min Scan# 3126
Delta R.T. -0.04 min
Lab File: BN007194.D
Acq: 15 Aug 2019 13:45

Tgt Ion:278 Resp: 85497
Ion Ratio Lower Upper
278 100
139 17.7 11.3 16.9#
279 29.8 19.3 28.9#





#37

Benzo(a,h,i)perylene

Concen: 2.173 ng

RT: 25.86 min Scan# 3308

Delta R.T. -0.02 min

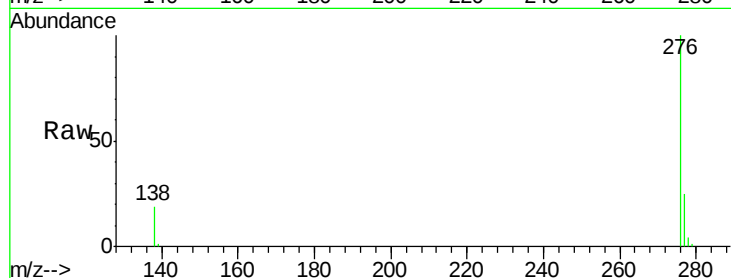
Lab File: BN007194.D

Acq: 15 Aug 2019 13:45

Instrument :

BNA_N

ClientSampleId :



Tot Ion: 276 Resp: 337883

Ion Ratio Lower Upper

276 100

277 24.6 19.8 29.8

138 19.0 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

