

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081519\
 Data File : BN007201.D
 Acq On : 15 Aug 2019 17:57
 Operator : HP/JU
 Sample : K4239-13DL 50X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 16 07:05:29 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	7389	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	28613	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	16607	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	38264	0.40	ng	0.00
26) Chrysene-d12	21.03	240	37543	0.40	ng	-0.02
32) Perylene-d12	23.15	264	42270	0.40	ng	-0.02

System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	119	0.01	ng	0.00
4) Phenol-d6	6.61	99	151	0.01	ng	0.00
7) Nitrobenzene-d5	8.56	82	119	0.01	ng	0.00
10) 2-Methylnaphthalene-d10	11.88	152	14	0.00	ng	0.09
13) 2,4,6-Tribromophenol	15.57	330	43	0.00	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	175	0.01	ng	0.00
24) Fluoranthene-d10	18.87	212	570	0.00	ng	0.00
28) Terphenyl-d14	19.48	244	1202	0.01	ng	-0.02

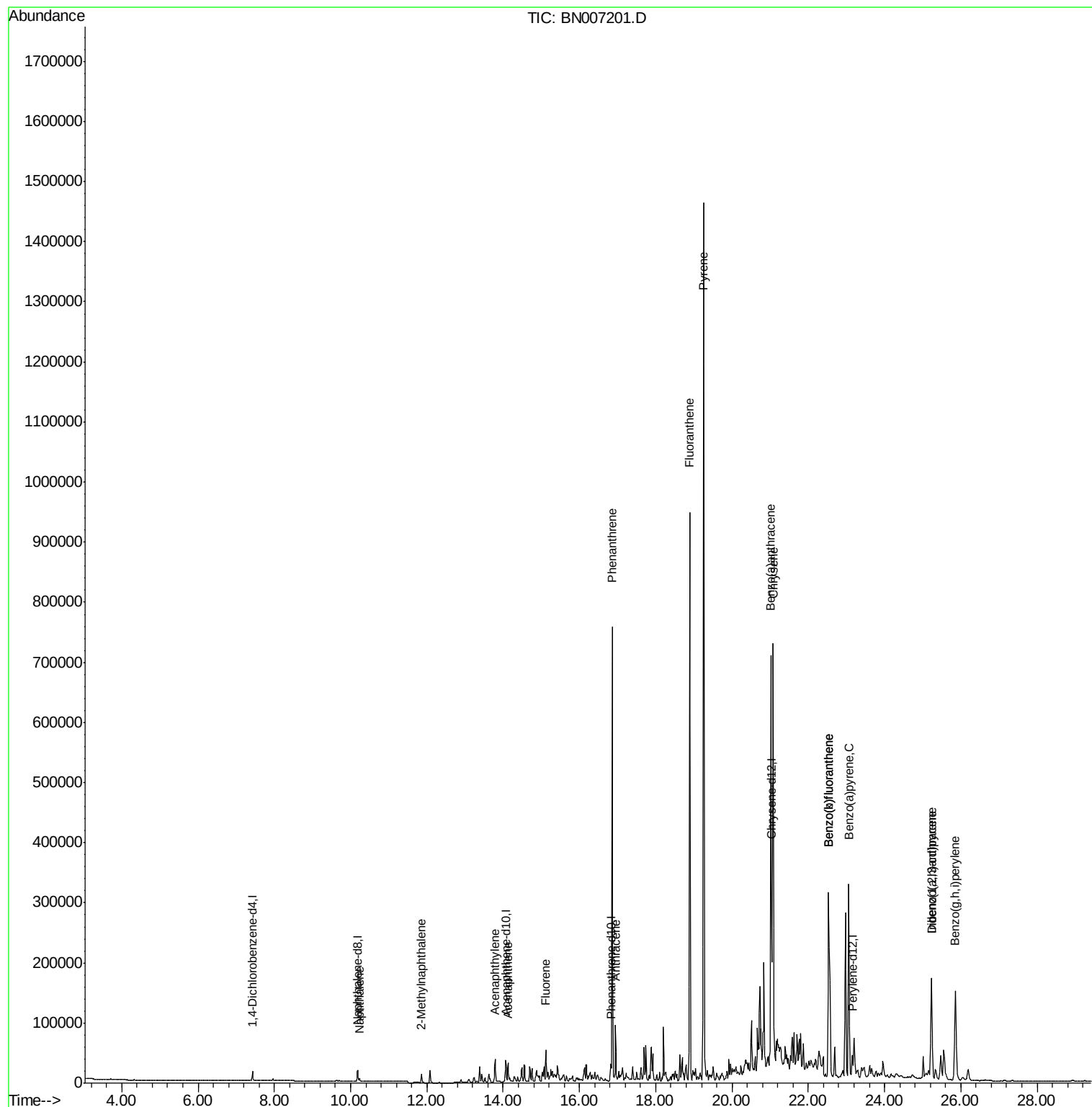
Target Compounds				Qvalue		
8) Naphthalene	10.22	128	7611	0.095	ng	96
11) 2-Methylnaphthalene	11.86	142	10425	0.183	ng	97
15) Acenaphthylene	13.79	152	41867	0.482	ng	# 96
16) Acenaphthene	14.13	154	15303	0.275	ng	91
17) Fluorene	15.12	166	28684	0.345	ng	# 90
22) Phenanthrene	16.87	178	856077	7.465	ng	100
23) Anthracene	16.95	178	89562	0.855	ng	98
25) Fluoranthene	18.89	202	866383	5.906	ng	98
27) Pyrene	19.26	202	1366239	10.377	ng	97
29) Benzo(a)anthracene	21.02	228	574528	4.185	ng	95
30) Chrysene	21.08	228	644954	4.835	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	244616	1.664	ng	99
33) Benzo(b)fluoranthene	22.53	252	530701	3.661	ng	100
34) Benzo(k)fluoranthene	22.53	252	530701	3.707	ng	100
35) Benzo(a)pyrene	23.06	252	427982	3.257	ng	98
36) Dibenzo(a,h)anthracene	25.24	278	77666	0.592	ng	# 91
37) Benzo(a,h,i)perylene	25.86	276	299994	2.224	ng	99

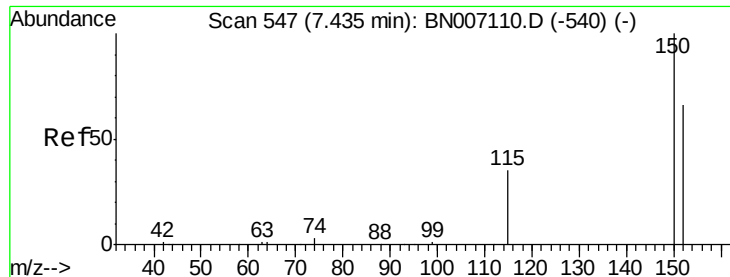
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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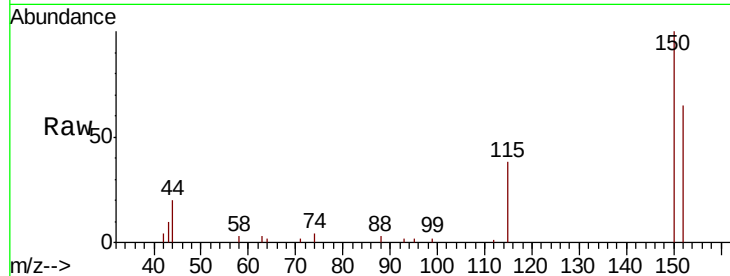


#1

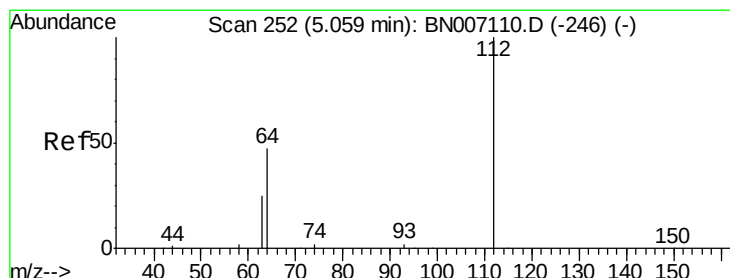
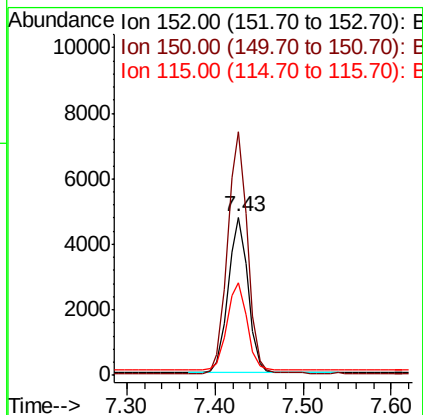
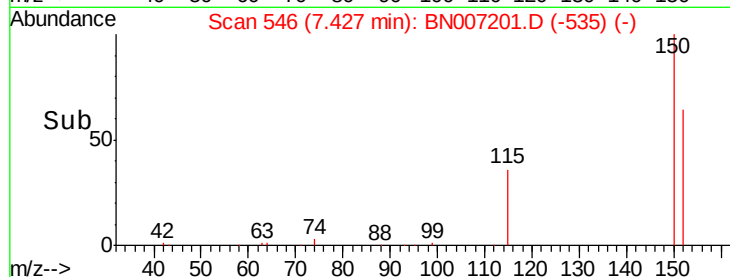
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Instrument :
BNA_N
ClientSampled :

Tot Ion:152 Resp: 7389
Ion Ratio Lower Upper
152 100
150 154.1 121.7 182.5
115 58.4 46.2 69.4



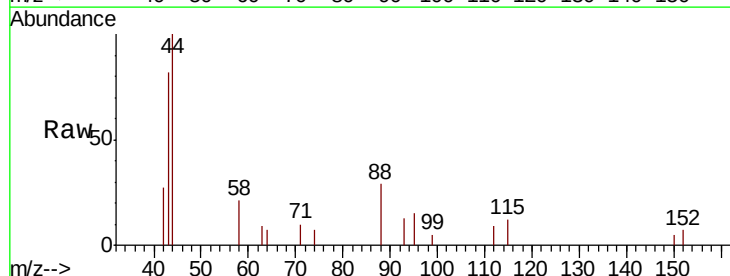
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



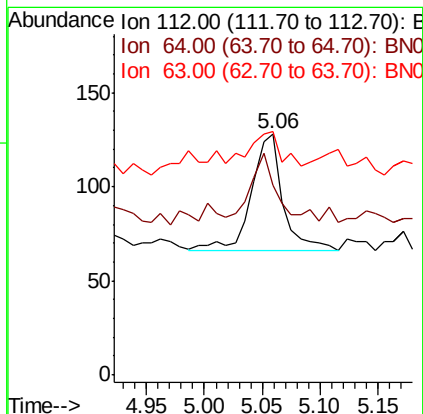
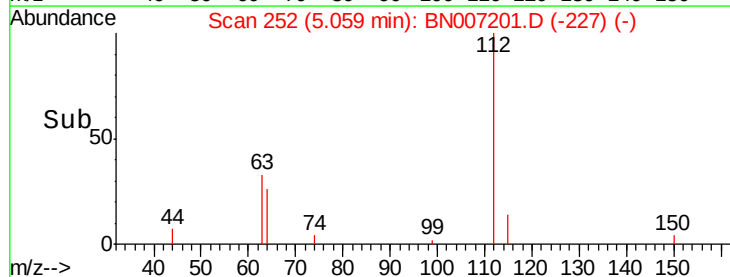
#3

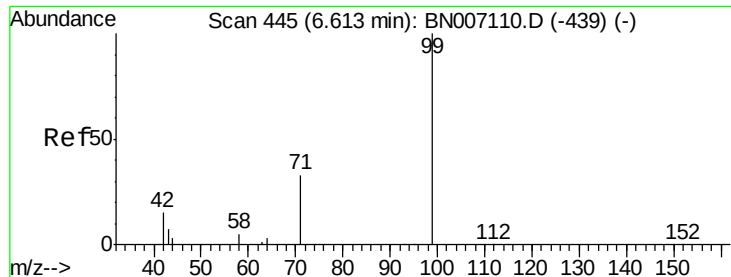
2-Fluorophenol
Concen: 0.007 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Tgt Ion:112 Resp: 119
Ion Ratio Lower Upper
112 100
64 37.0 42.6 63.8#
63 40.3 22.2 33.2#



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





#4

Phenol-d6

Concen: 0.007 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Instrument :

BNA_N

ClientSampleId :

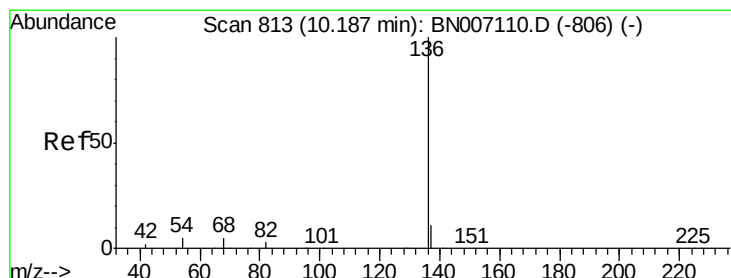
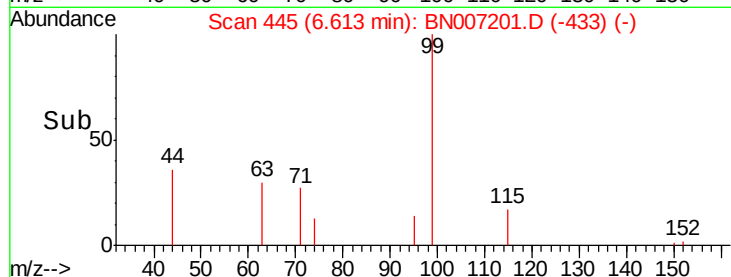
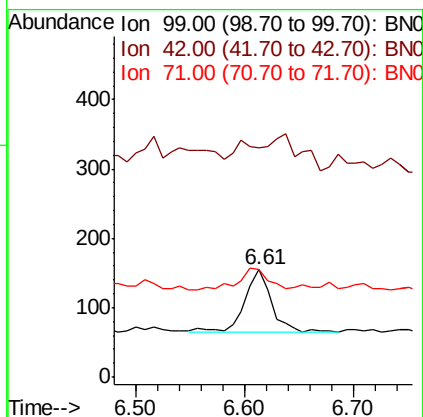
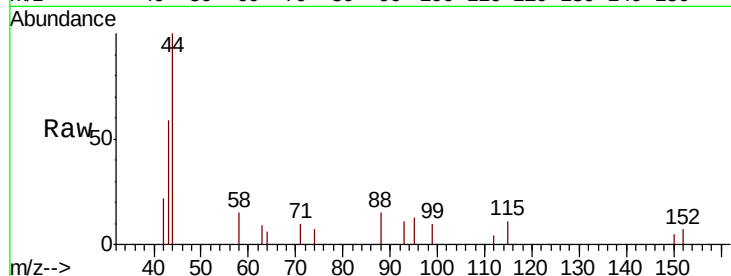
Tot Ion: 99 Resp: 151

Ion Ratio Lower Upper

99 100

42 29.1 15.8 23.6#

71 43.7 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: BN007201.D

Acq: 15 Aug 2019 17:57

Tgt Ion: 136 Resp: 28613

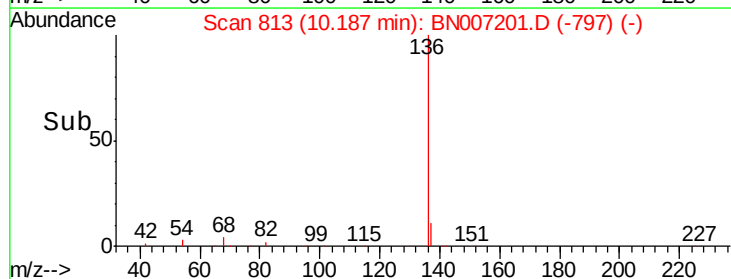
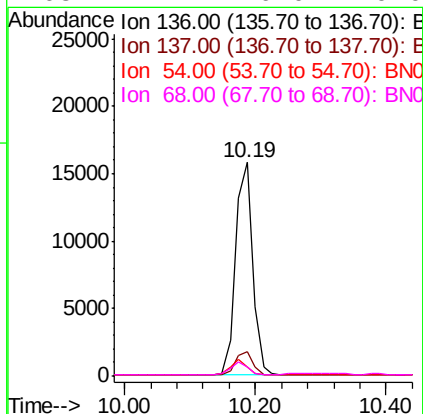
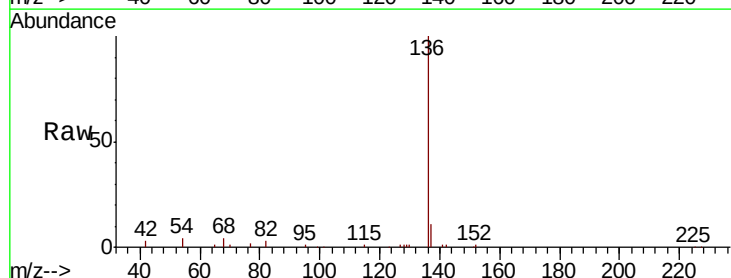
Ion Ratio Lower Upper

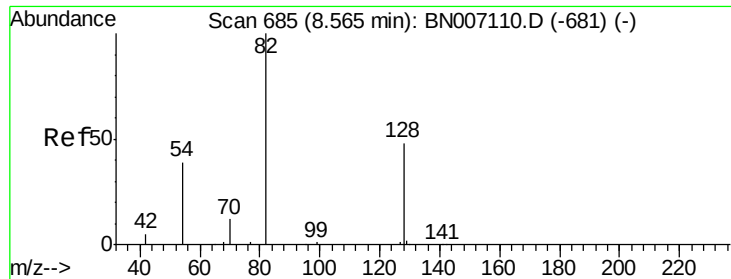
136 100

137 11.2 9.4 14.0

54 4.3 6.6 9.8#

68 4.4 6.0 9.0#





#7

Nitrobenzene-d5

Concen: 0.005 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Instrument :

BNA_N

ClientSampleId :

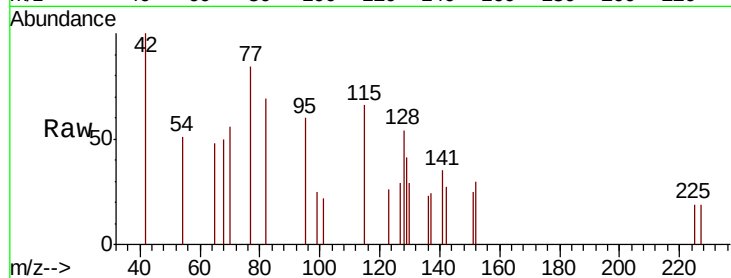
Tot Ion: 82 Resp: 119

Ion Ratio Lower Upper

82 100

128 78.0 34.6 51.8#

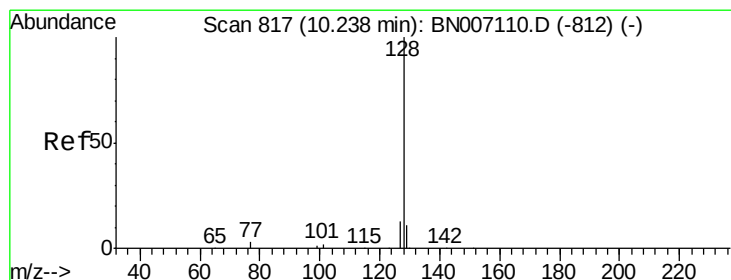
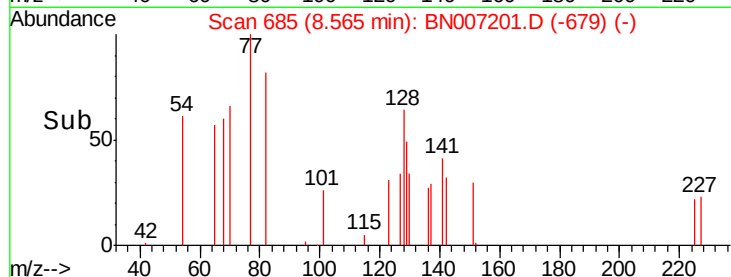
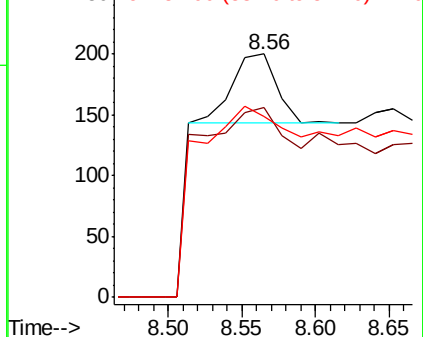
54 74.5 36.2 54.4#



Abundance Ion 82.00 (81.70 to 82.70): BN007201.D (-681) (-)

Ion 128.00 (127.70 to 128.70): BN007201.D (-681) (-)

Ion 54.00 (53.70 to 54.70): BN007201.D (-681) (-)



#8

Naphthalene

Concen: 0.095 ng

RT: 10.22 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

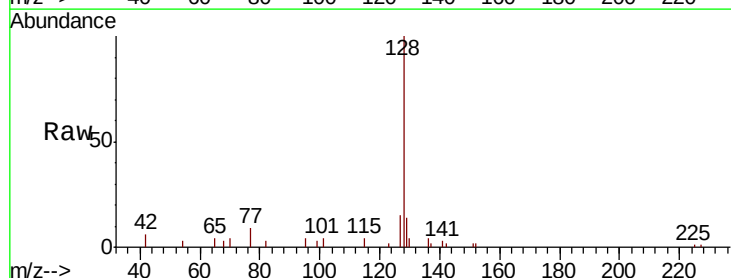
Tgt Ion: 128 Resp: 7611

Ion Ratio Lower Upper

128 100

129 14.1 9.4 14.2

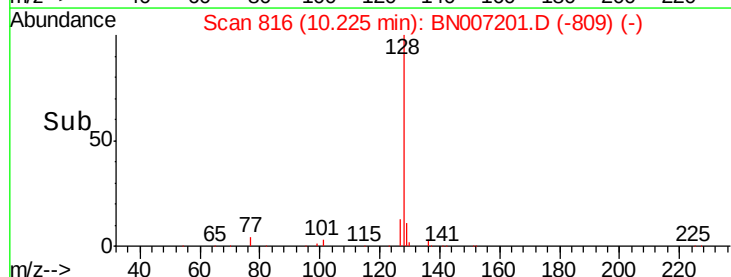
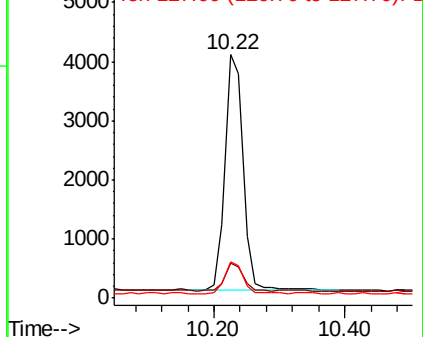
127 14.7 11.0 16.6

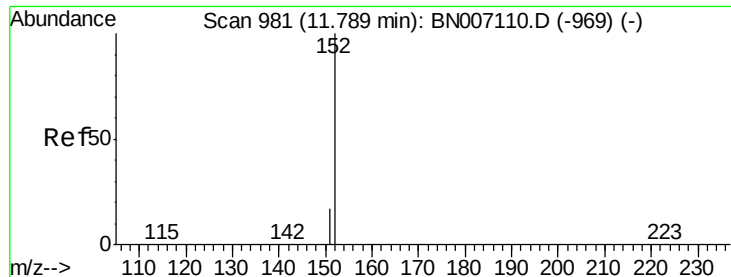


Abundance Ion 128.00 (127.70 to 128.70): BN007201.D (-812) (-)

Ion 129.00 (128.70 to 129.70): BN007201.D (-812) (-)

Ion 127.00 (126.70 to 127.70): BN007201.D (-812) (-)

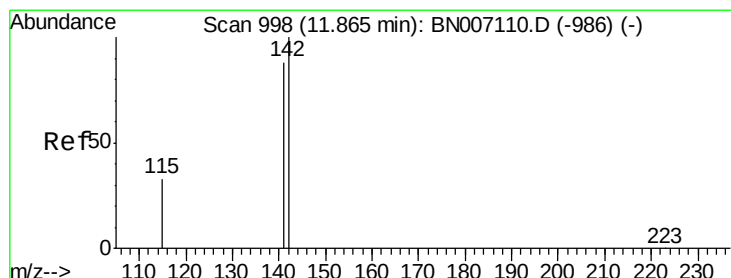
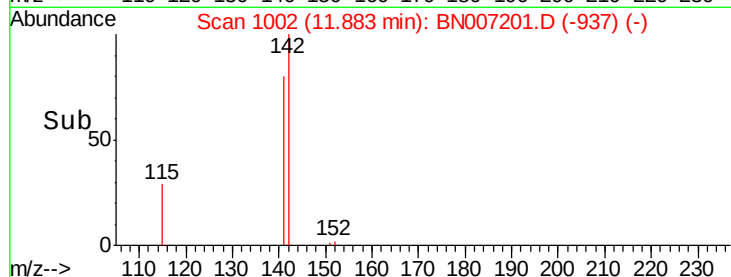
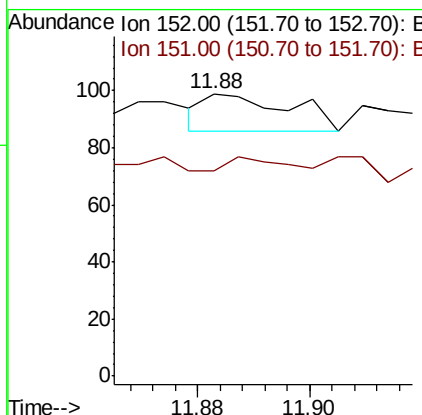
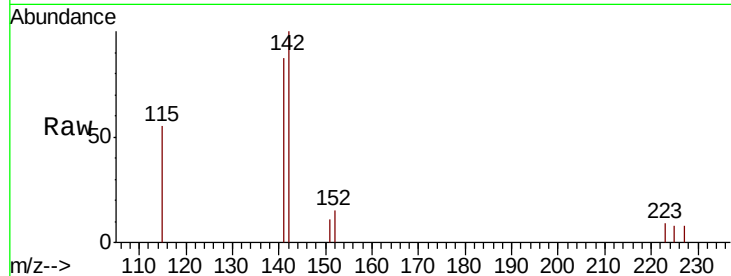




#10
2-Methylnaphthalene-d10
Concen: 0.000 ng
RT: 11.88 min Scan# 1002
Delta R.T. 0.09 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

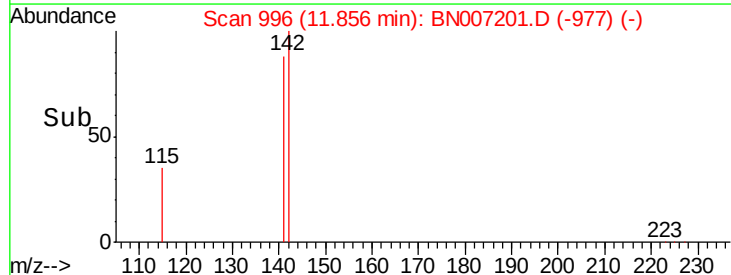
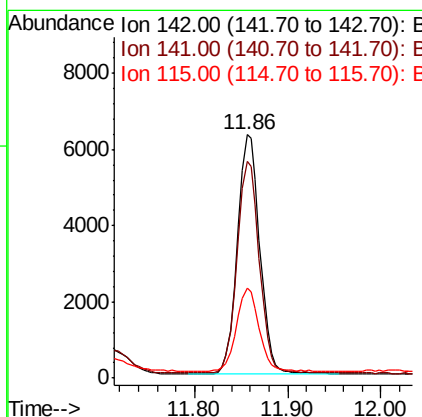
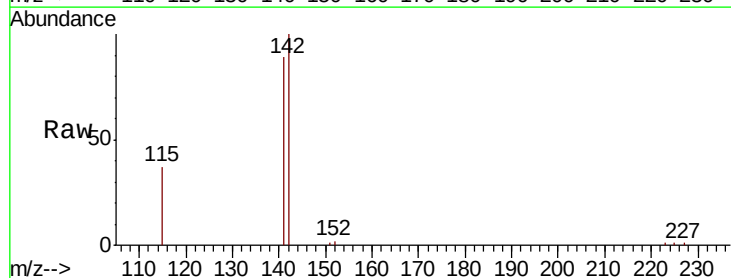
Instrument :
BNA_N
ClientSampled :

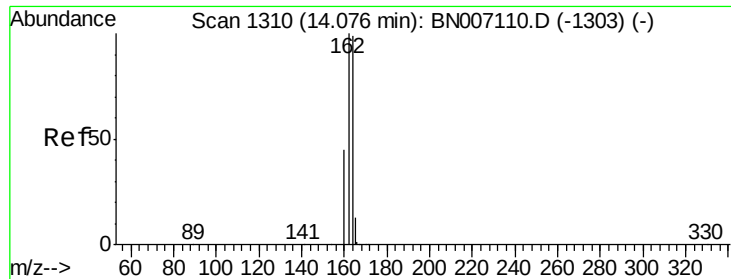
Tot Ion:152 Resp: 14
Ion Ratio Lower Upper
152 100
151 21.4 15.5 23.3



#11
2-Methylnaphthalene
Concen: 0.183 ng
RT: 11.86 min Scan# 996
Delta R.T. -0.01 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Tgt Ion:142 Resp: 10425
Ion Ratio Lower Upper
142 100
141 88.9 69.0 103.6
115 36.9 27.1 40.7





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Instrument :

BNA_N

ClientSampleId :

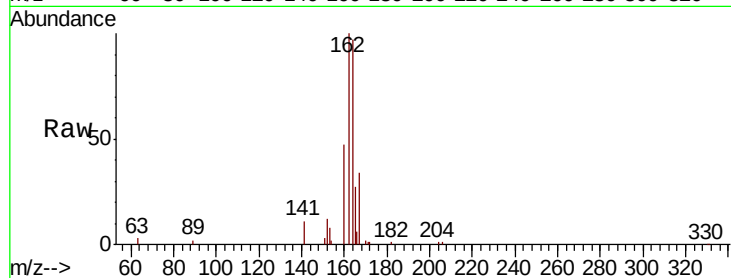
Tot Ion:164 Resp: 16607

Ion Ratio Lower Upper

164 100

162 102.6 82.2 123.4

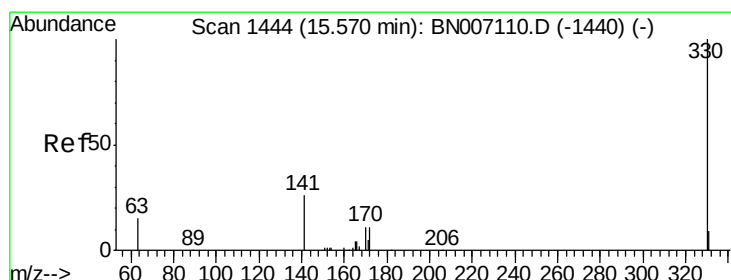
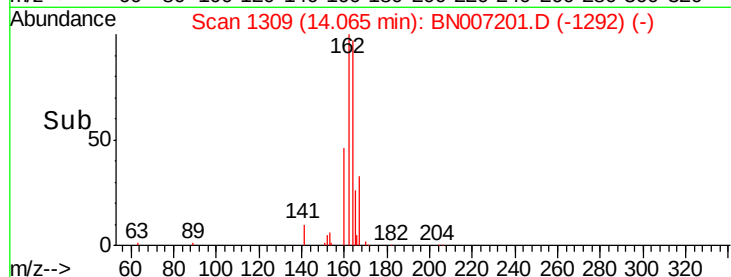
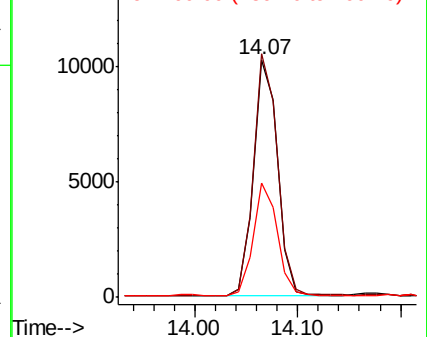
160 48.1 38.3 57.5



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: 0.005 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

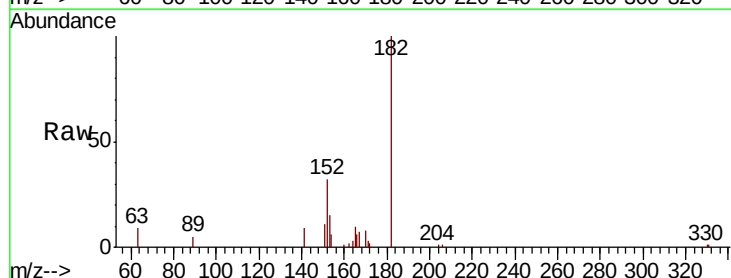
Tgt Ion:330 Resp: 43

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

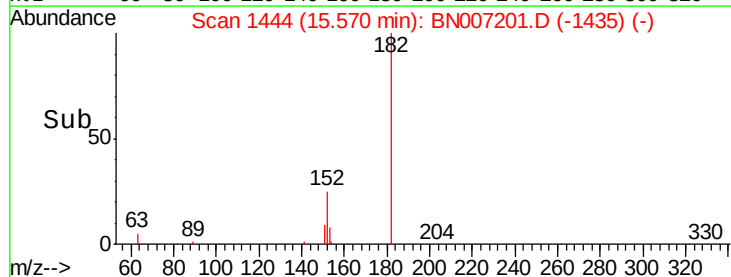
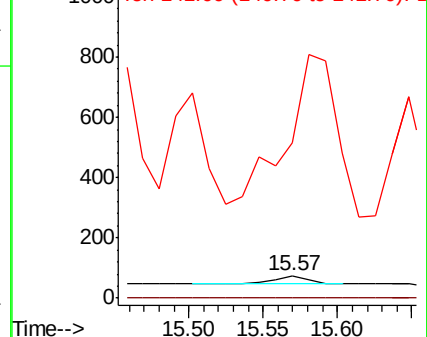
141 3016.3 33.6 50.4#

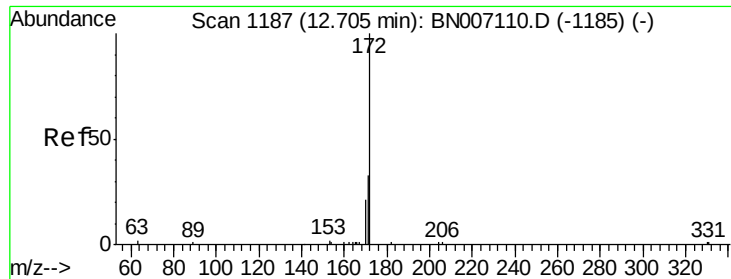


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

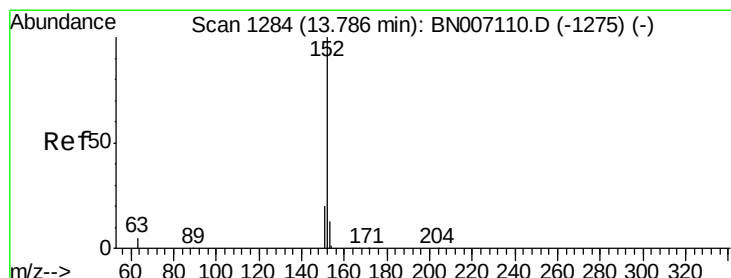
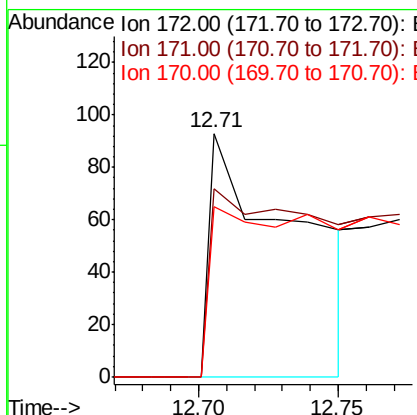
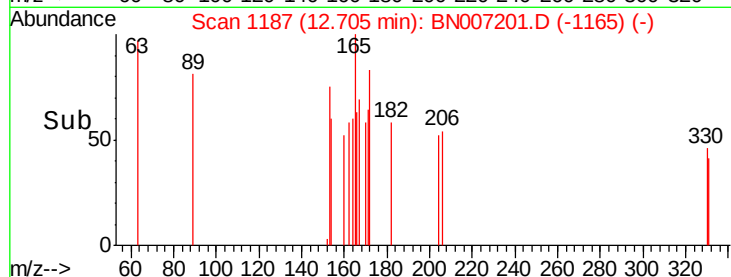
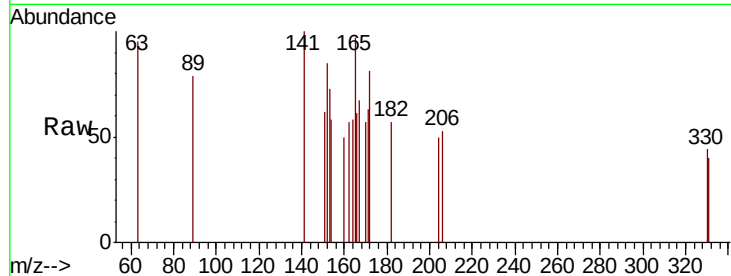




#14
2-Fluorobiphenyl
Concen: 0.007 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

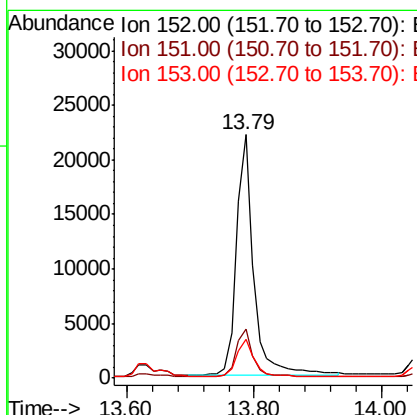
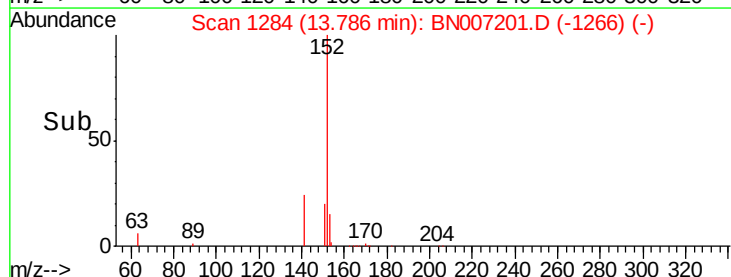
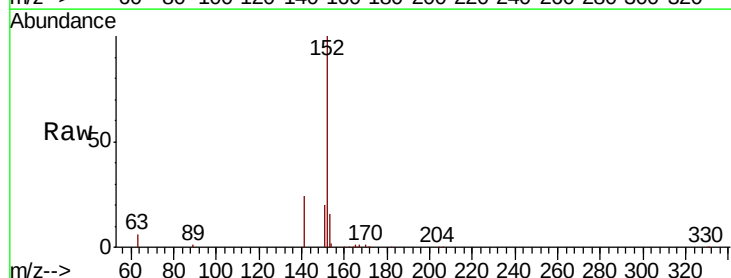
Instrument :
BNA_N
ClientSampleId :

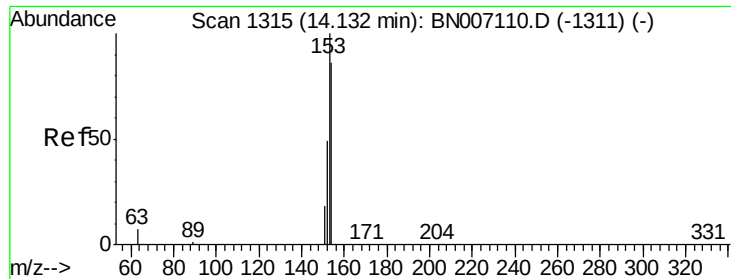
Tot Ion:172 Resp: 175
Ion Ratio Lower Upper
172 100
171 77.4 26.3 39.5#
170 69.9 17.0 25.4#



#15
Acenaphthylene
Concen: 0.482 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Tgt Ion:152 Resp: 41867
Ion Ratio Lower Upper
152 100
151 20.5 15.8 23.6
153 16.0 10.4 15.6#





#16

Acenaphthene

Concen: 0.275 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Instrument :

BNA_N

ClientSampleId :

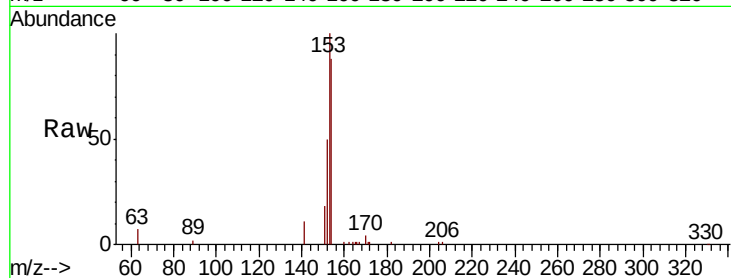
Tot Ion:154 Resp: 15303

Ion Ratio Lower Upper

154 100

153 122.9 89.5 134.3

152 59.7 44.8 67.2

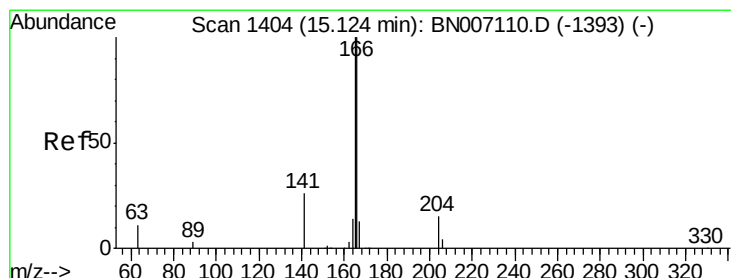
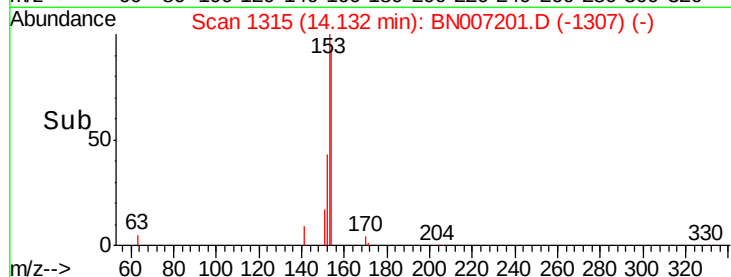
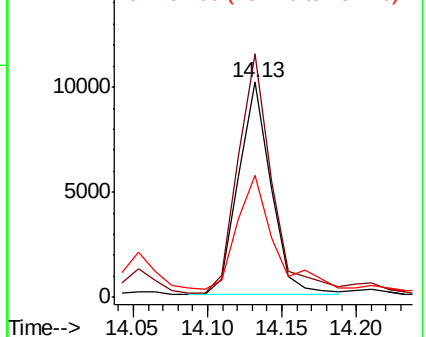


Abundance

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: 0.345 ng

RT: 15.12 min Scan# 1404

Delta R.T. -0.01 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

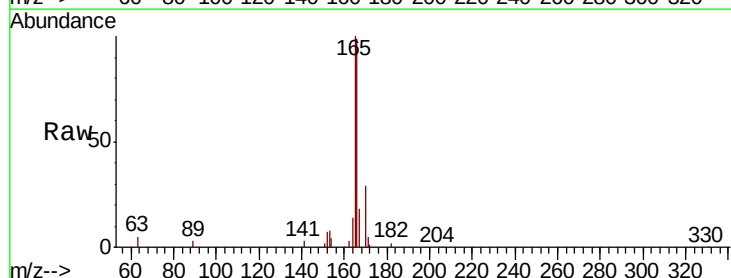
Tgt Ion:166 Resp: 28684

Ion Ratio Lower Upper

166 100

165 107.3 77.9 116.9

167 18.3 10.9 16.3#

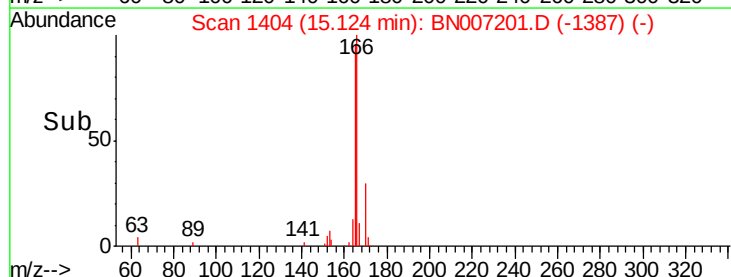
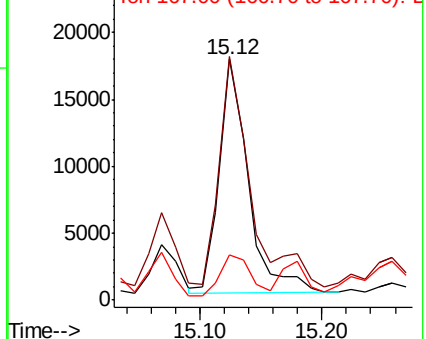


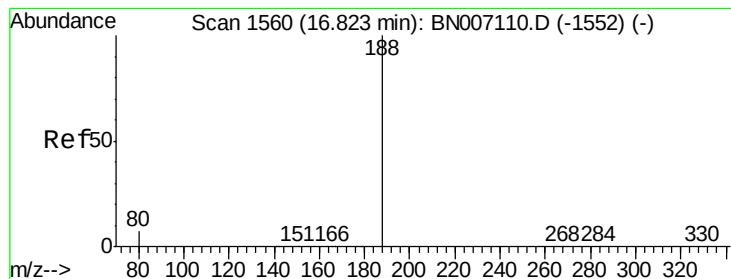
Abundance

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: BN007201.D

Acq: 15 Aug 2019 17:57

Instrument :

BNA_N

ClientSampleId :

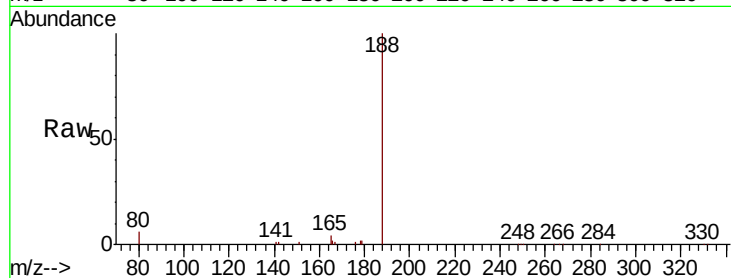
Tot Ion:188 Resp: 38264

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

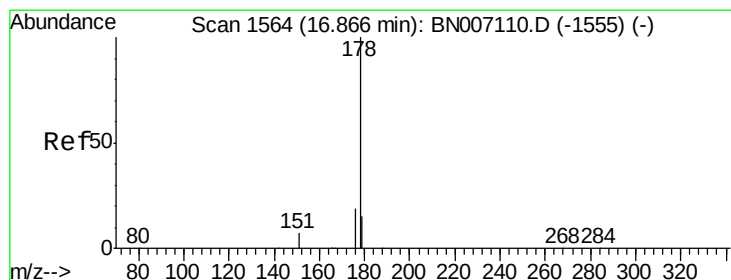
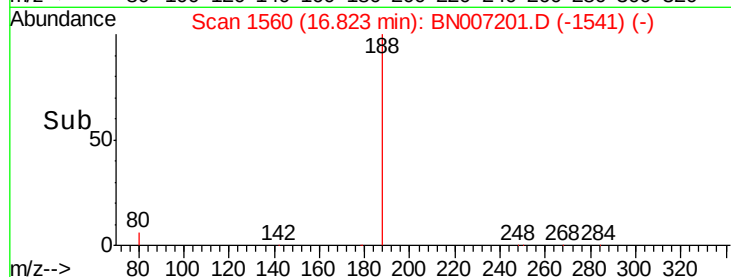
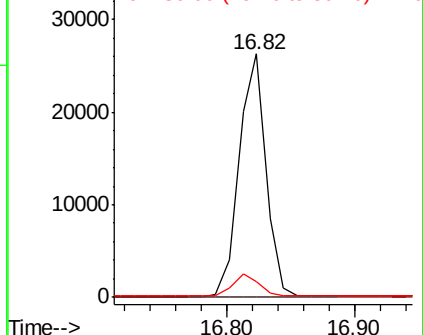
80 6.3 7.8 11.6#



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: 7.465 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

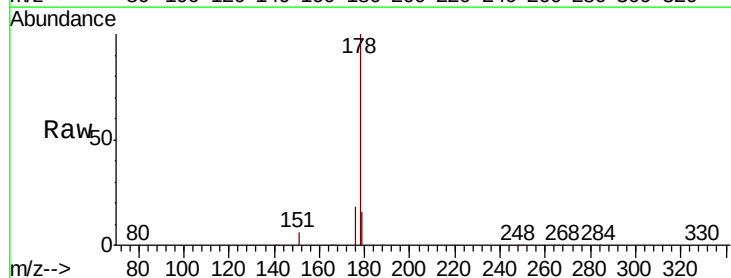
Tgt Ion:178 Resp: 856077

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

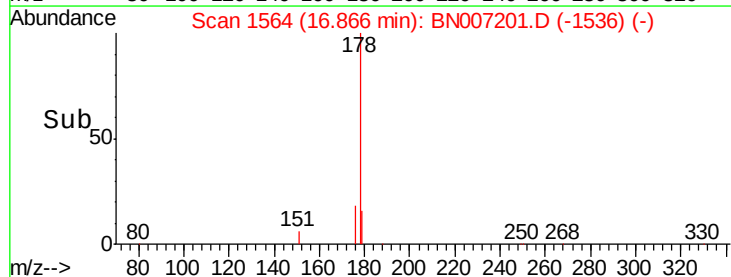
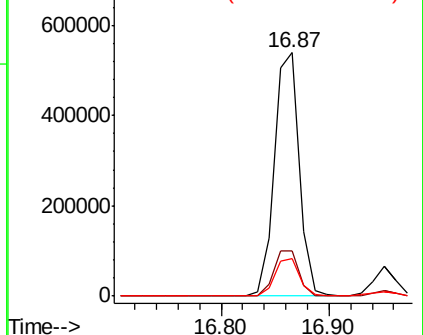
179 15.5 12.3 18.5

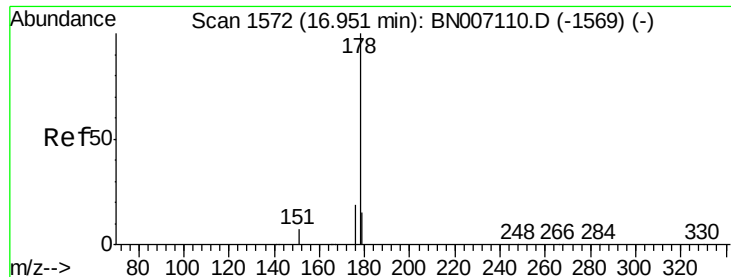


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 0.855 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Instrument :

BNA_N

ClientSampleId :

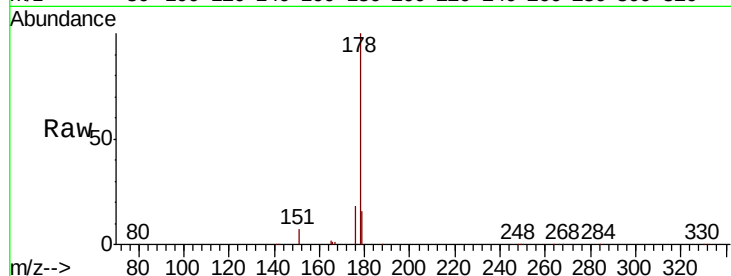
Tot Ion:178 Resp: 89562

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

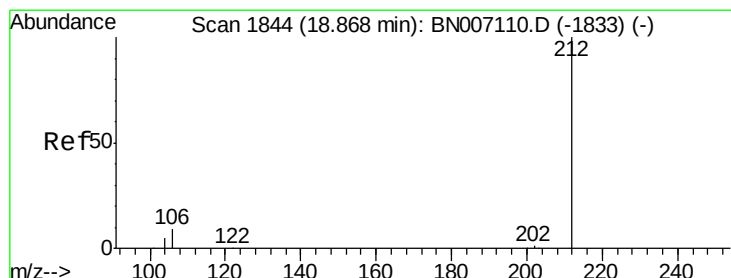
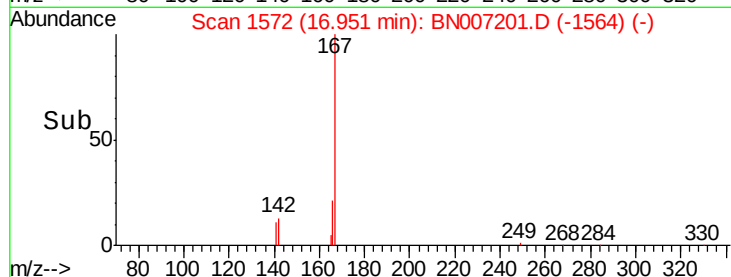
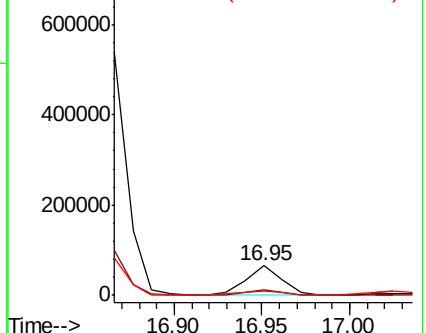
179 17.5 12.5 18.7



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: 0.004 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

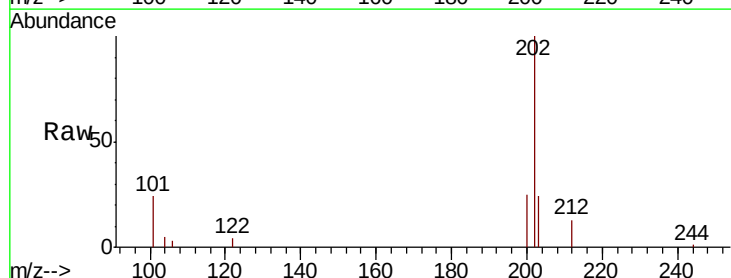
Tgt Ion:212 Resp: 570

Ion Ratio Lower Upper

212 100

106 0.0 8.2 12.2#

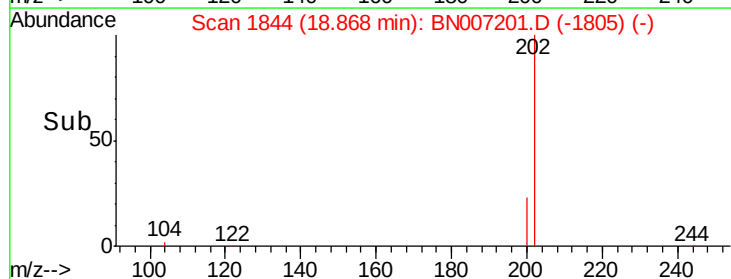
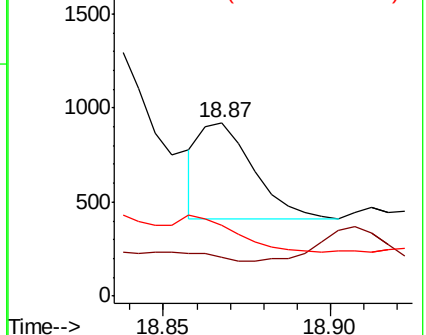
104 0.0 4.5 6.7#

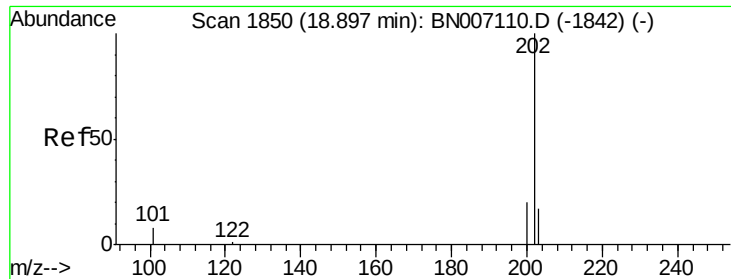


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 5.906 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Instrument :

BNA_N

ClientSampleId :

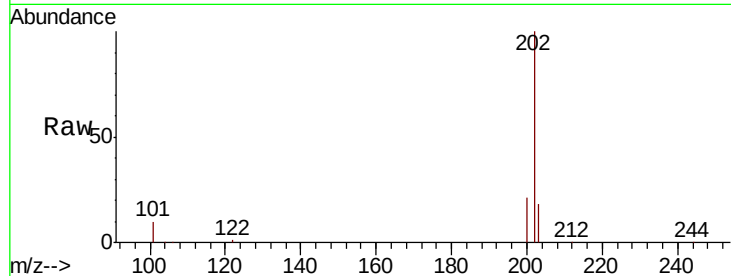
Tot Ion:202 Resp: 866383

Ion Ratio Lower Upper

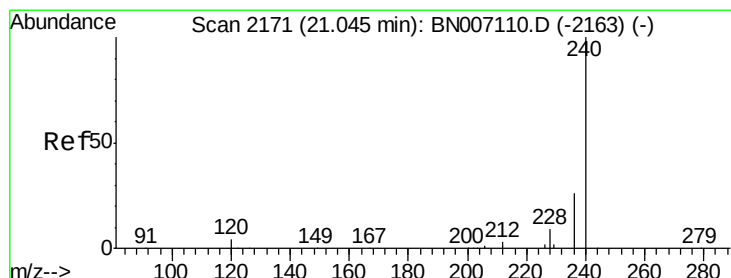
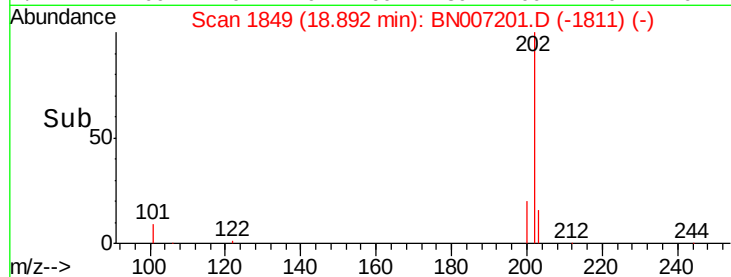
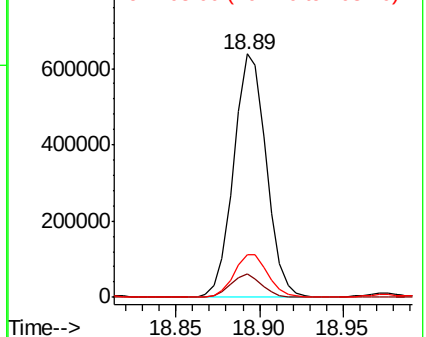
202 100

101 9.1 7.0 10.4

203 18.1 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: BN007201.D

Acq: 15 Aug 2019 17:57

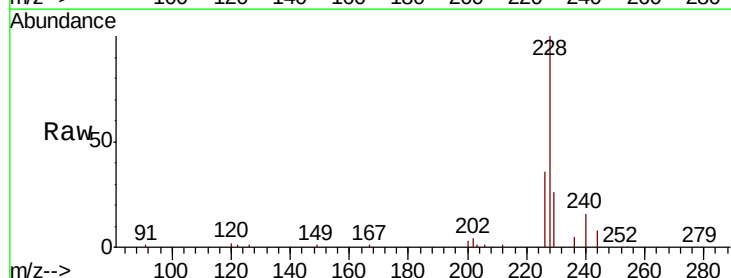
Tgt Ion:240 Resp: 37543

Ion Ratio Lower Upper

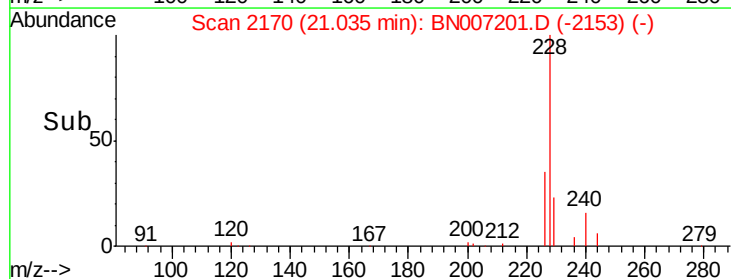
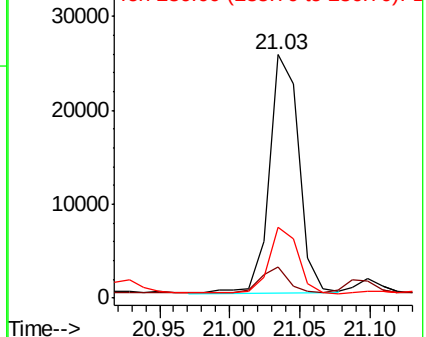
240 100

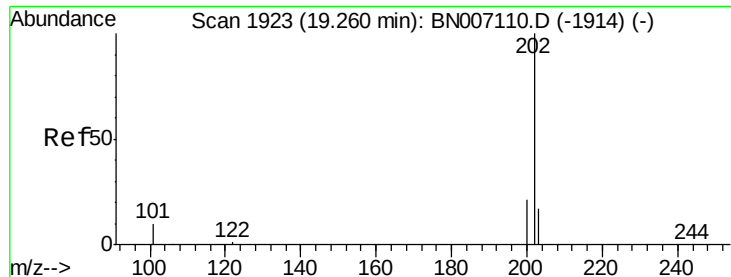
120 12.9 4.0 6.0#

236 29.2 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

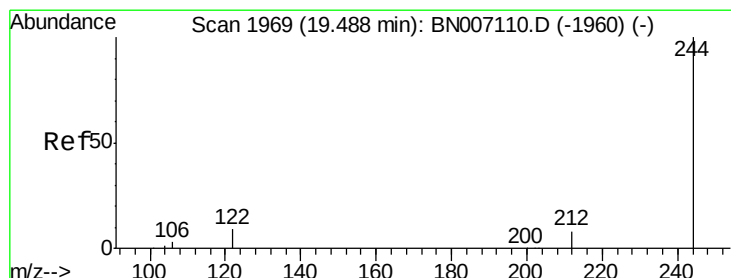
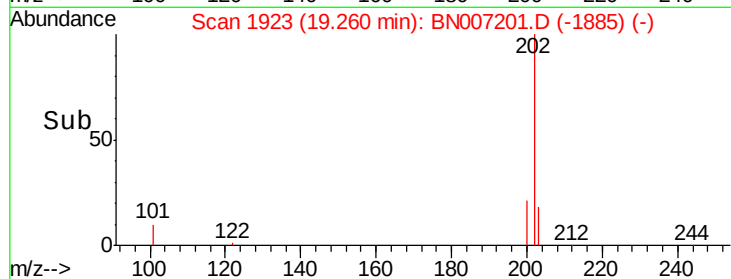
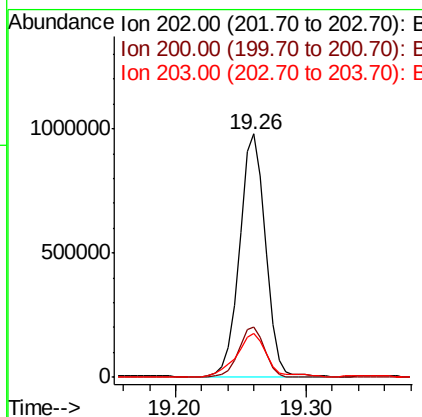
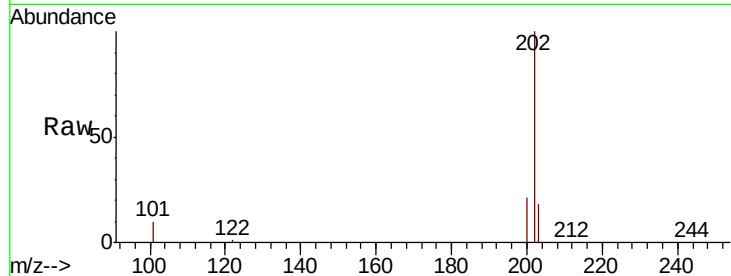




#27
Pvrene
Concen: 10.377 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

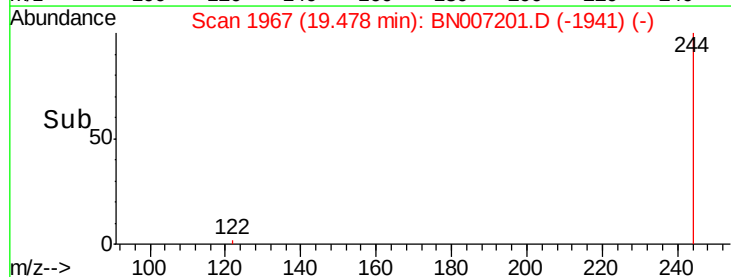
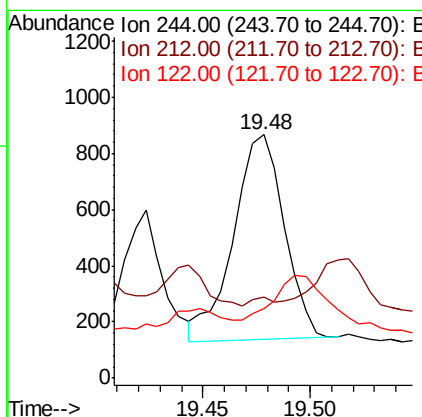
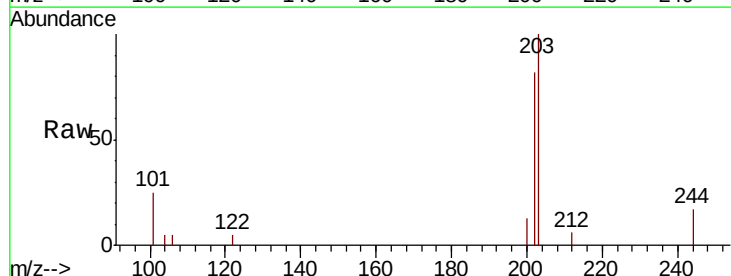
Instrument :
BNA_N
ClientSampled :

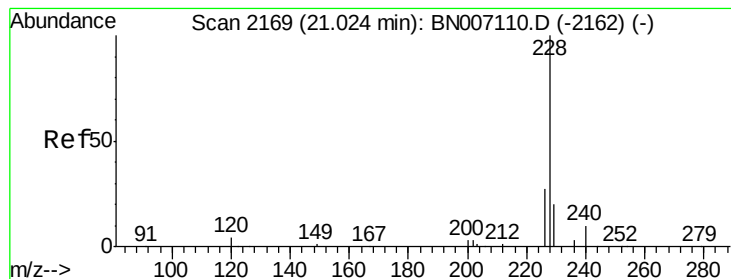
Tot Ion:202 Resp: 1366239
Ion Ratio Lower Upper
202 100
200 20.9 16.6 24.8
203 20.6 14.0 21.0



#28
Terphenyl-d14
Concen: 0.012 ng
RT: 19.48 min Scan# 1967
Delta R.T. -0.02 min
Lab File: BN007201.D
Acq: 15 Aug 2019 17:57

Tgt Ion:244 Resp: 1202
Ion Ratio Lower Upper
244 100
212 33.4 6.2 9.2#
122 28.5 7.4 11.2#





#29

Benzo(a)anthracene

Concen: 4.185 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Instrument :

BNA_N

ClientSampled :

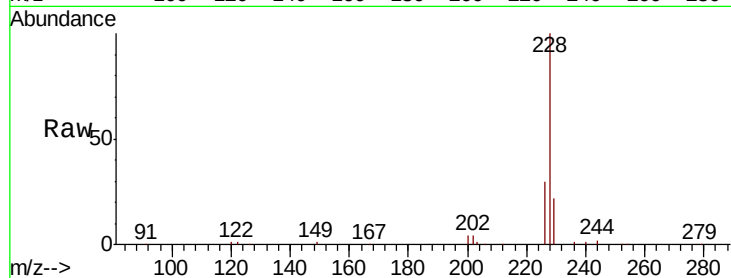
Tot Ion:228 Resp: 574528

Ion Ratio Lower Upper

228 100

226 29.5 21.8 32.6

229 21.6 15.6 23.4

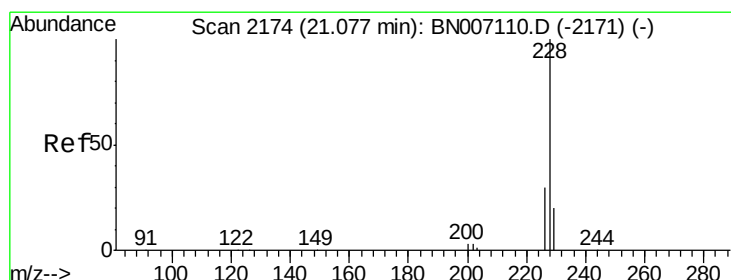
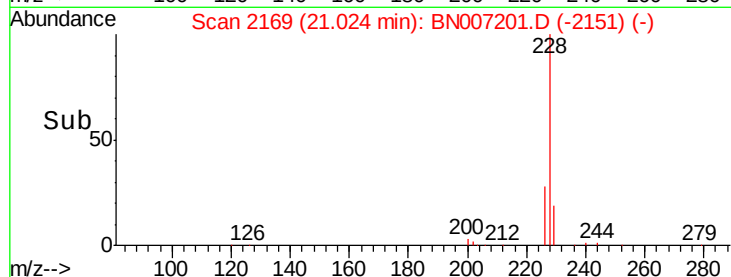
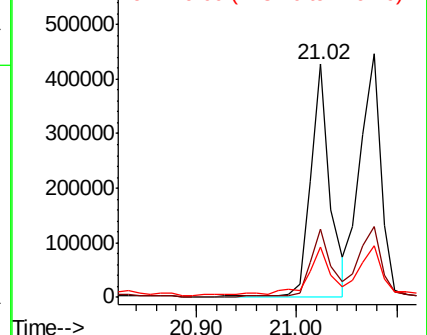


Abundance

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: 4.835 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

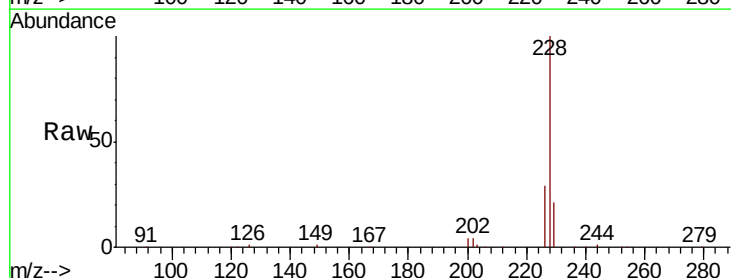
Tgt Ion:228 Resp: 644954

Ion Ratio Lower Upper

228 100

226 29.2 23.8 35.6

229 21.4 15.7 23.5

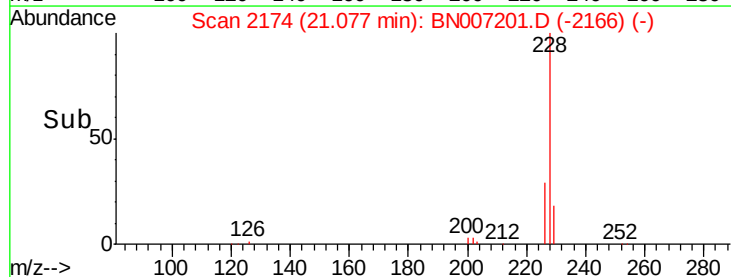
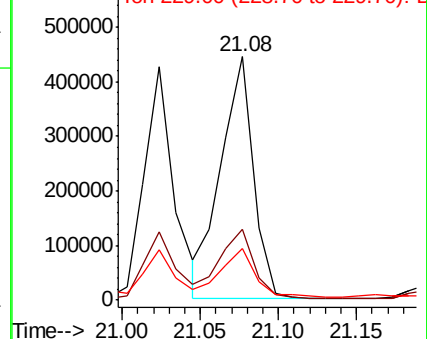


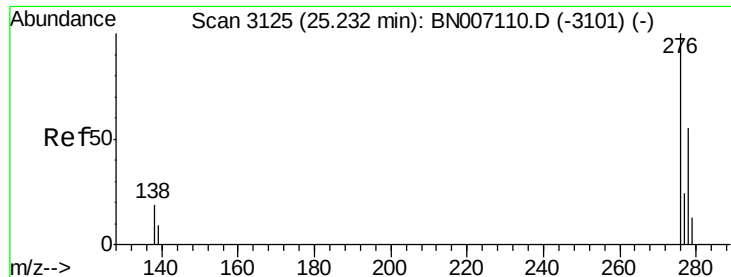
Abundance

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

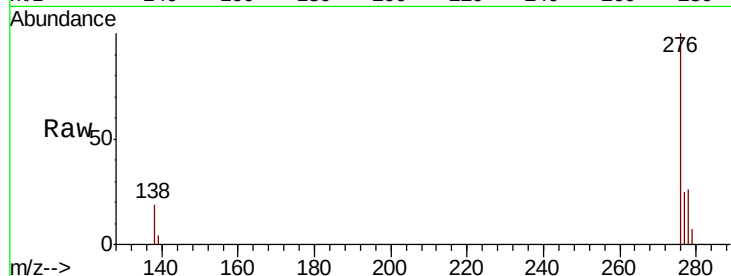




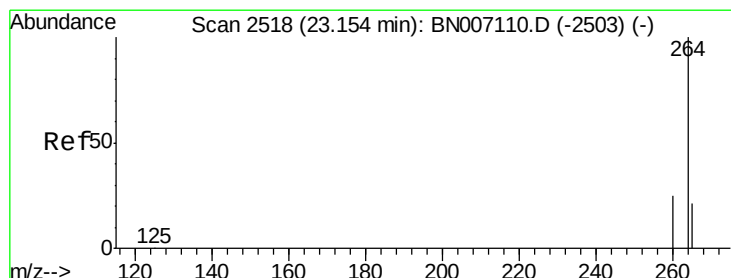
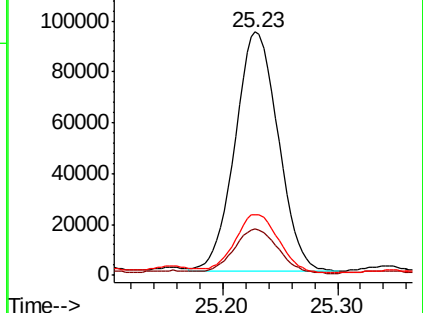
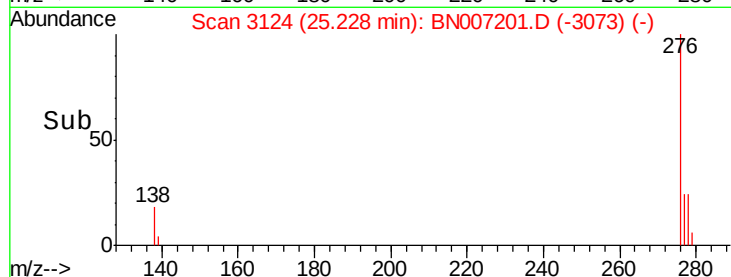
#31
 Indeno(1,2,3-cd)pyrene
 Concen: 1.664 ng
 RT: 25.23 min Scan# 3124
 Delta R.T. -0.02 min
 Lab File: BN007201.D
 Acq: 15 Aug 2019 17:57

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:276 Resp: 244616
 Ion Ratio Lower Upper
 276 100
 138 18.8 16.0 24.0
 277 25.0 19.9 29.9

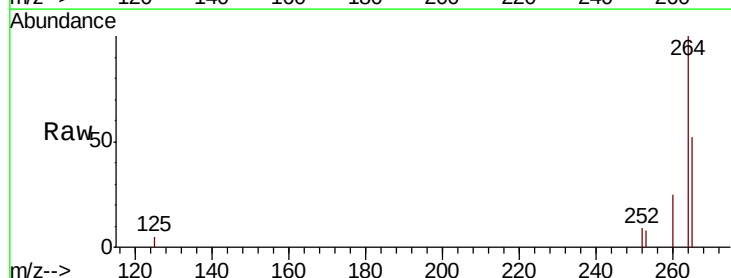


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

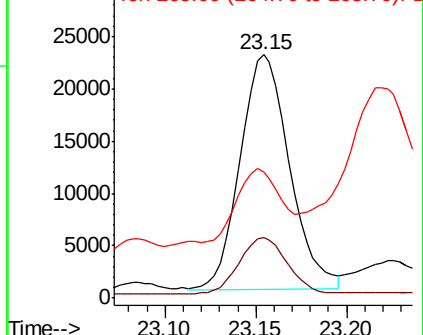
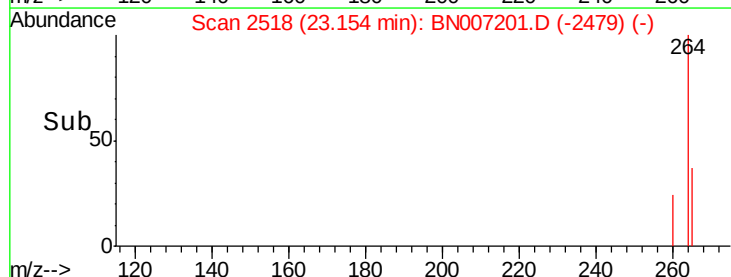


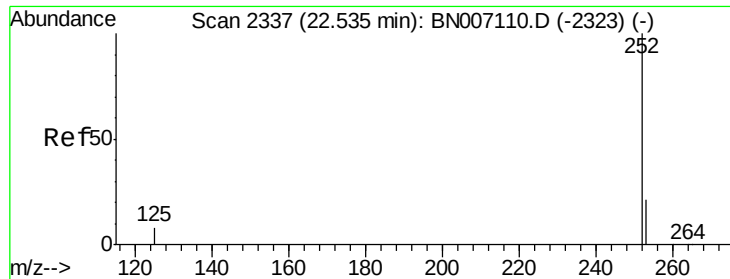
#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2518
 Delta R.T. -0.02 min
 Lab File: BN007201.D
 Acq: 15 Aug 2019 17:57

Tgt Ion:264 Resp: 42270
 Ion Ratio Lower Upper
 264 100
 260 24.9 19.8 29.8
 265 51.5 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: 3.661 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Instrument :

BNA_N

ClientSampleId :

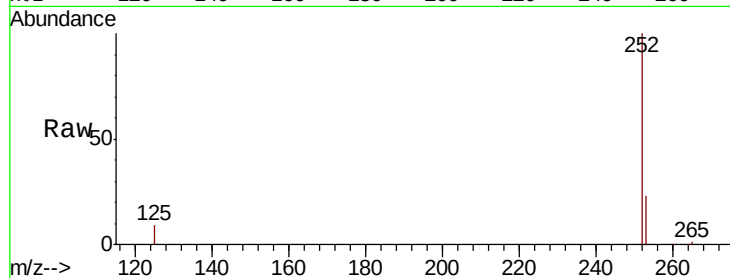
Tot Ion:252 Resp: 530701

Ion Ratio Lower Upper

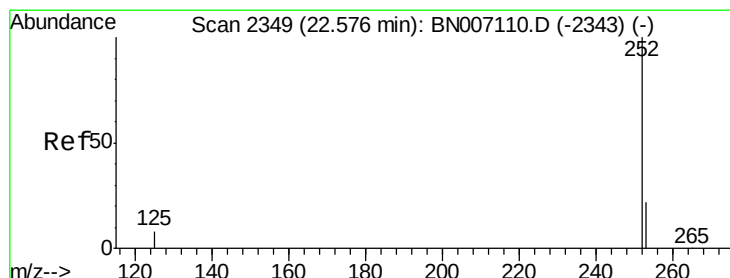
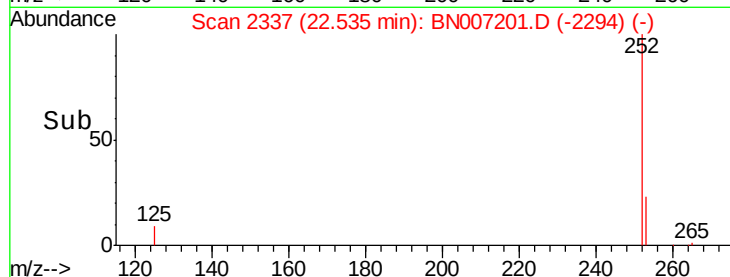
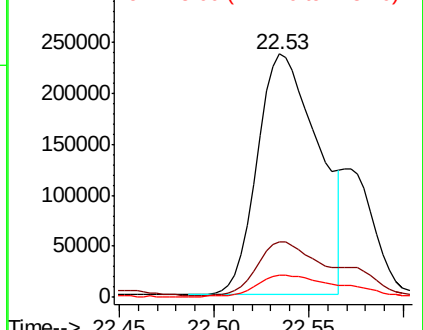
252 100

253 22.8 18.2 27.2

125 9.0 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: 3.707 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.06 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

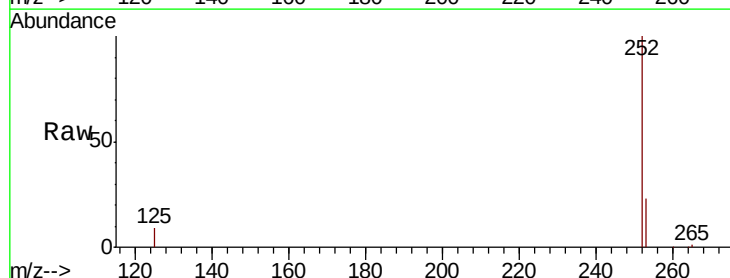
Tgt Ion:252 Resp: 530701

Ion Ratio Lower Upper

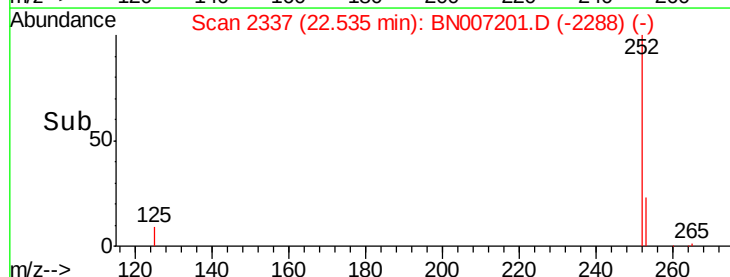
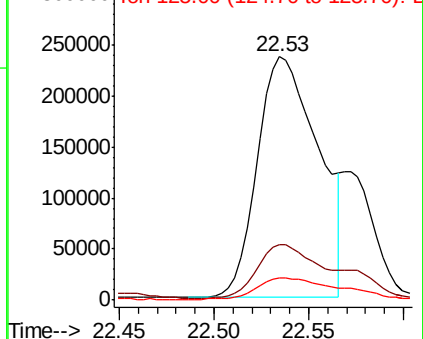
252 100

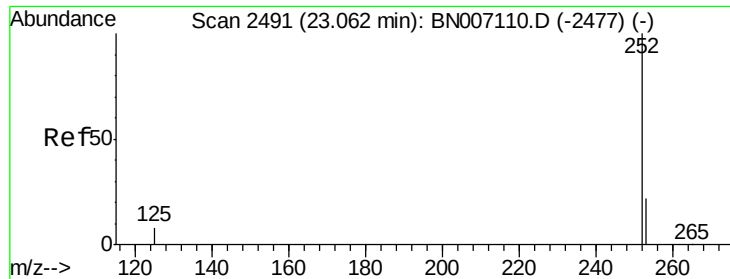
253 22.8 18.1 27.1

125 9.0 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: 3.257 ng

RT: 23.06 min Scan# 2491

Delta R.T. -0.02 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Instrument :

BNA_N

ClientSampleId :

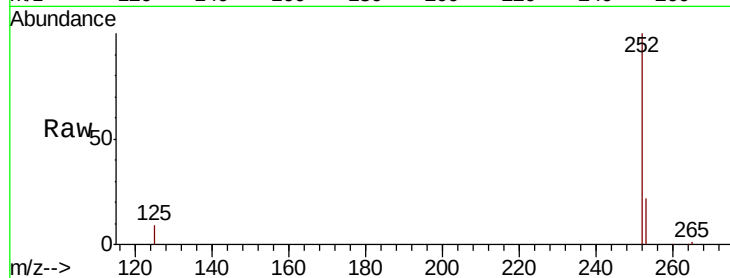
Tot Ion:252 Resp: 427982

Ion Ratio Lower Upper

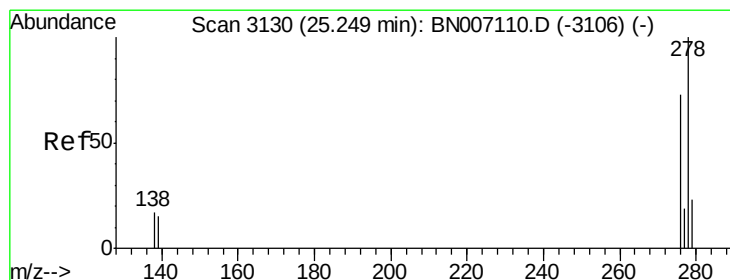
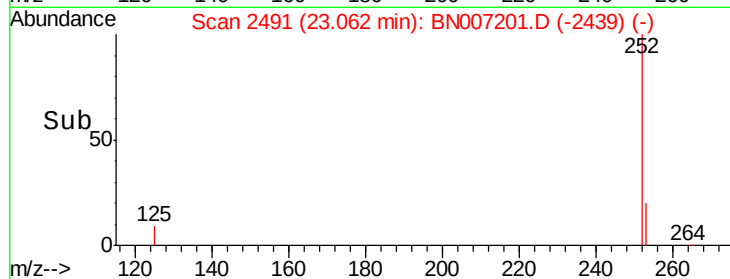
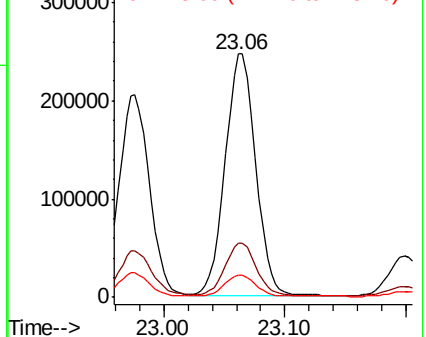
252 100

253 22.4 18.5 27.7

125 9.3 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: 0.592 ng

RT: 25.24 min Scan# 3126

Delta R.T. -0.04 min

Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

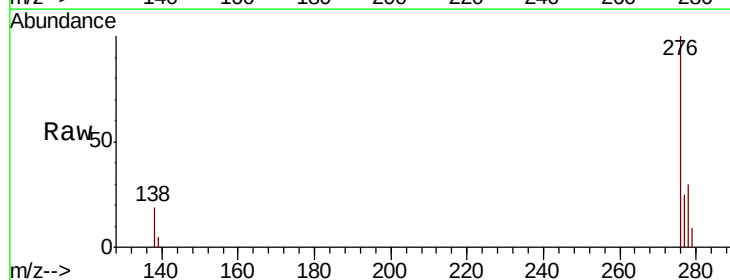
Tgt Ion:278 Resp: 77666

Ion Ratio Lower Upper

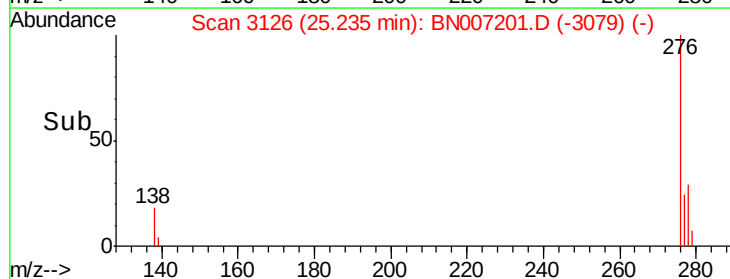
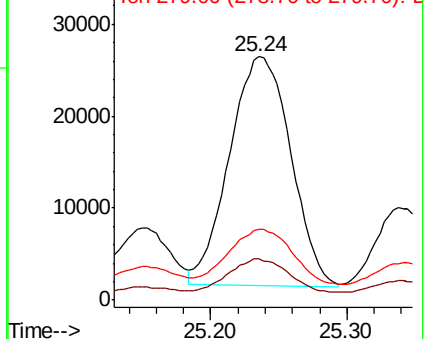
278 100

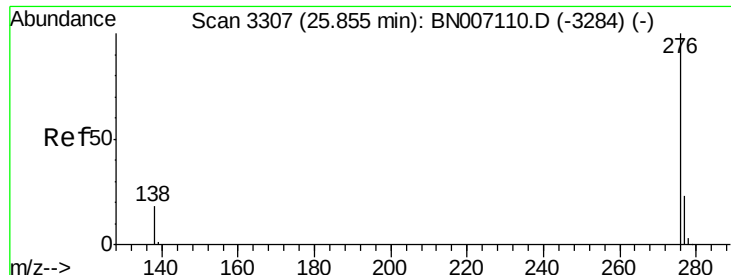
139 16.8 11.3 16.9

279 29.0 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: 2.224 ng

RT: 25.86 min Scan# 3308

Delta R.T. -0.02 min

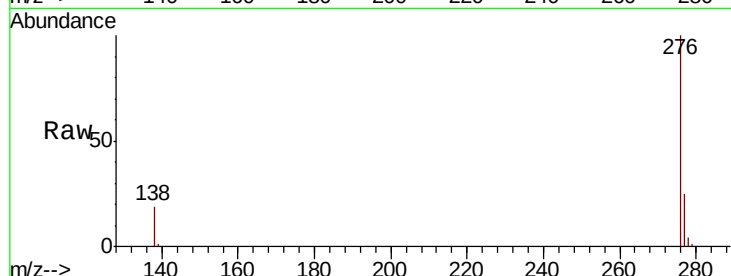
Lab File: BN007201.D

Acq: 15 Aug 2019 17:57

Instrument :

BNA_N

ClientSampleId :



Tot Ion: 276 Resp: 299994

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

