

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN081319\
 Data File : BN007157.D
 Acq On : 14 Aug 2019 07:33
 Operator : HP/JU
 Sample : K4239-14 10X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-034-SW093-080519

Quant Time: Aug 14 09:47:11 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	8397	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	32629	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	19047	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	41461	0.40	ng	0.00
26) Chrysene-d12	21.05	240	40866	0.40	ng	-0.01
32) Perylene-d12	23.16	264	51273	0.40	ng	0.00

System Monitoring Compounds

3) 2-Fluorophenol	5.06	112	782	0.04	ng	0.00
4) Phenol-d6	6.62	99	986	0.04	ng	0.00
7) Nitrobenzene-d5	8.56	82	668	0.03	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	1404	0.02	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	277	0.03	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	480	0.02	ng	0.00
24) Fluoranthene-d10	18.87	212	3486	0.02	ng	0.00
28) Terphenyl-d14	19.49	244	4479	0.04	ng	-0.01

Target Compounds

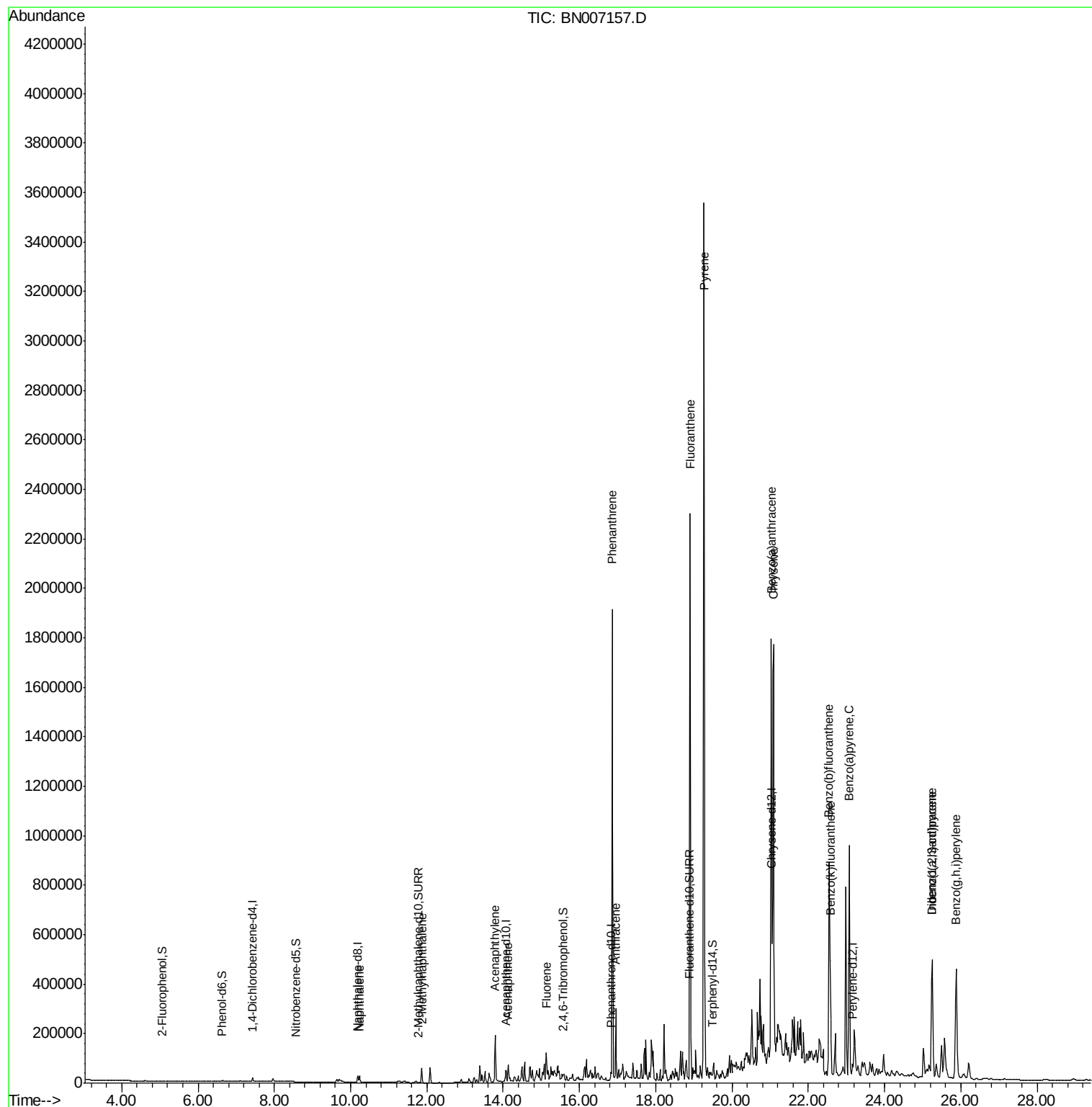
						Qvalue
8) Naphthalene	10.24	128	34095	0.373	ng	99
11) 2-Methylnaphthalene	11.87	142	41574	0.641	ng	98
15) Acenaphthylene	13.79	152	236749	2.378	ng	99
16) Acenaphthene	14.13	154	38557	0.605	ng	93
17) Fluorene	15.13	166	78100	0.818	ng	# 85
22) Phenanthrene	16.87	178	1877061	15.107	ng	100
23) Anthracene	16.96	178	324276	2.856	ng	99
25) Fluoranthene	18.90	202	2129923	13.400	ng	98
27) Pyrene	19.26	202	3441900	24.017	ng	# 96
29) Benzo(a)anthracene	21.03	228	1569530	10.502	ng	91
30) Chrysene	21.09	228	1674293	11.531	ng	97
31) Indeno(1,2,3-cd)pyrene	25.25	276	722629	4.515	ng	99
33) Benzo(b)fluoranthene	22.55	252	1456834	8.286	ng	100
34) Benzo(k)fluoranthene	22.58	252	418922m	2.413	ng	
35) Benzo(a)pyrene	23.08	252	1234756	7.746	ng	99
36) Dibenzo(a,h)anthracene	25.26	278	230609	1.450	ng	# 90
37) Benzo(g,h,i)perylene	25.88	276	870333	5.320	ng	99

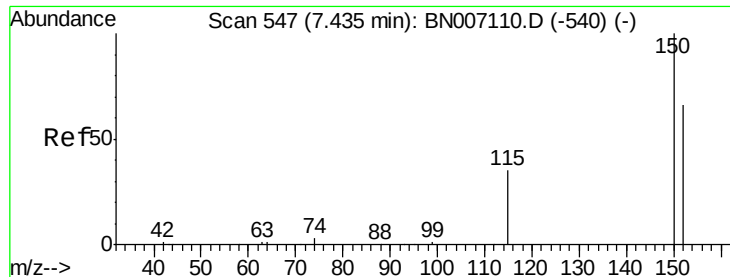
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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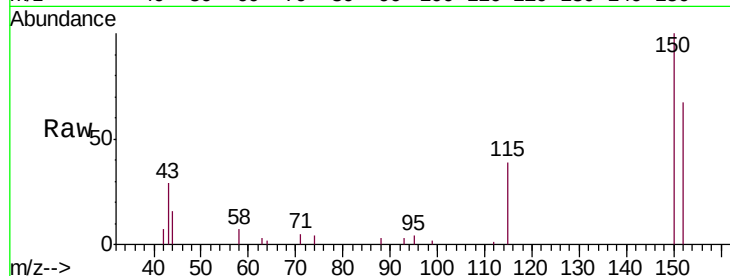


#1

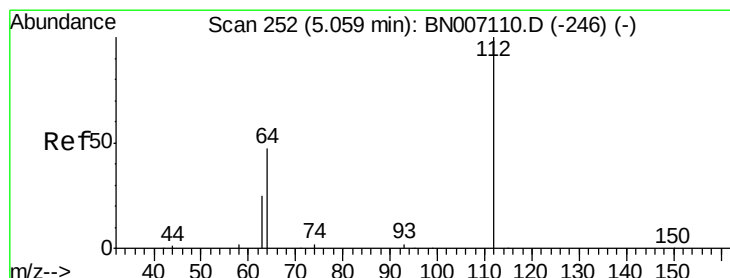
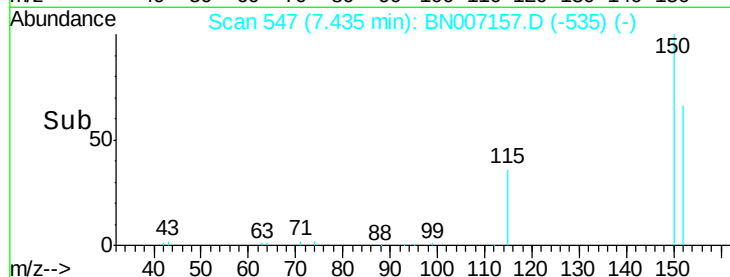
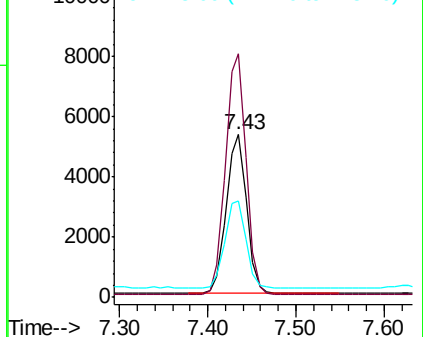
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007157.D
Acq: 14 Aug 2019 07:33

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW093-080519

Tgt Ion:152 Resp: 8397
Ion Ratio Lower Upper
152 100
150 149.5 121.7 182.5
115 59.1 46.2 69.4



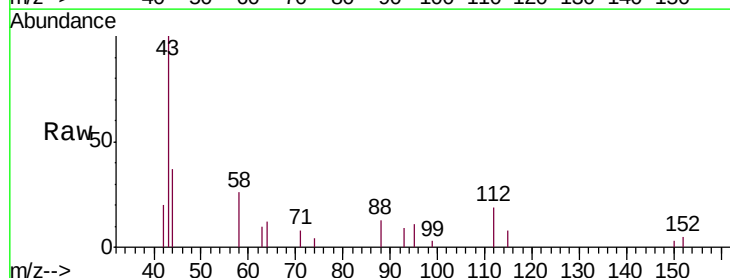
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



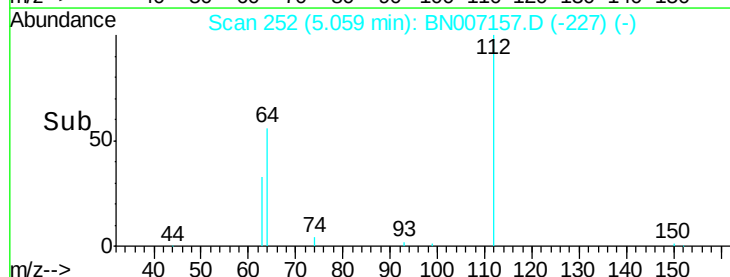
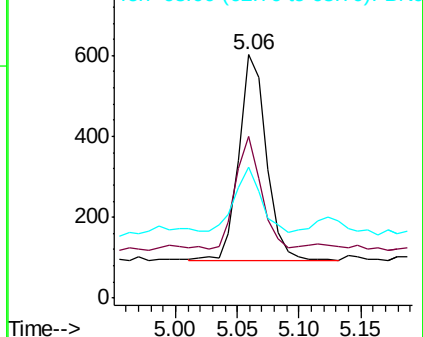
#3

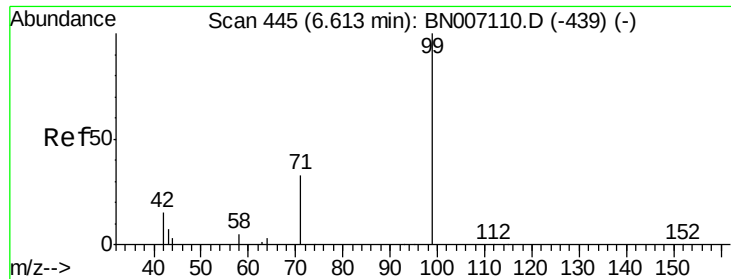
2-Fluorophenol
Concen: 0.039 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007157.D
Acq: 14 Aug 2019 07:33

Tgt Ion:112 Resp: 782
Ion Ratio Lower Upper
112 100
64 53.7 42.6 63.8
63 35.3 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: 0.039 ng

RT: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW093-080519

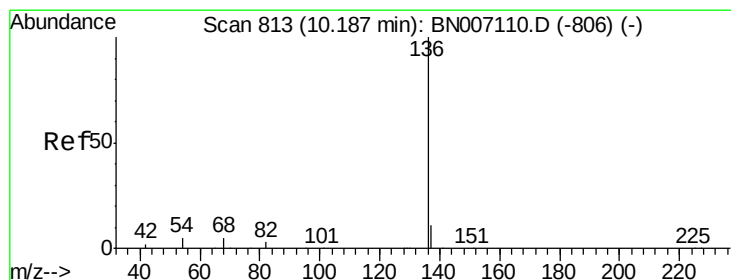
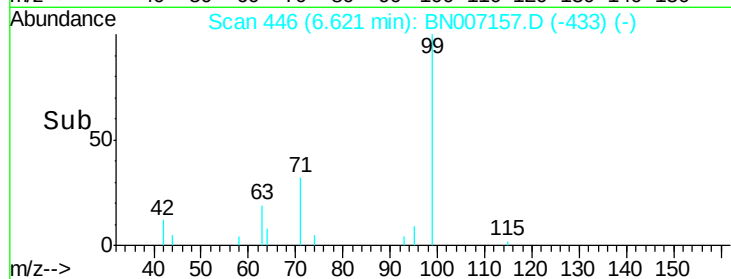
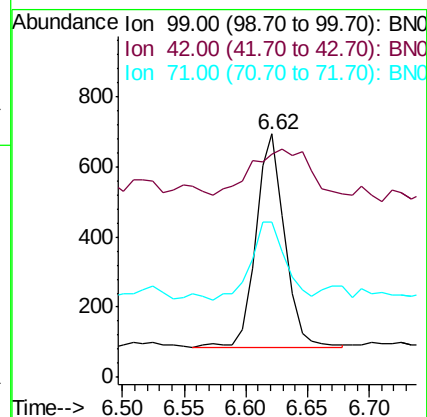
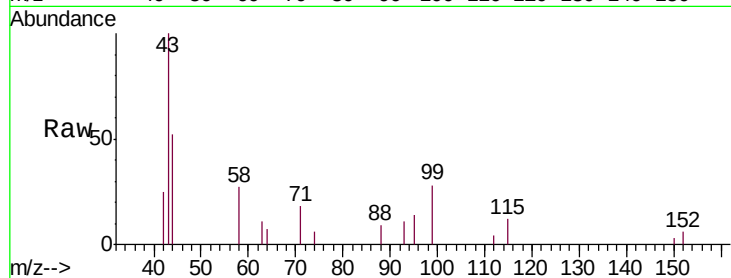
Tgt Ion: 99 Resp: 986

Ion Ratio Lower Upper

99 100

42 42.5 15.8 23.6#

71 43.3 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: BN007157.D

Acq: 14 Aug 2019 07:33

Tgt Ion: 136 Resp: 32629

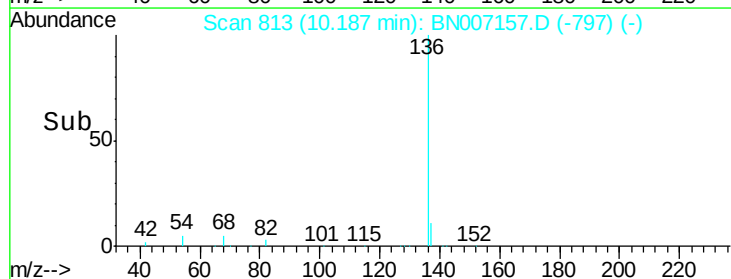
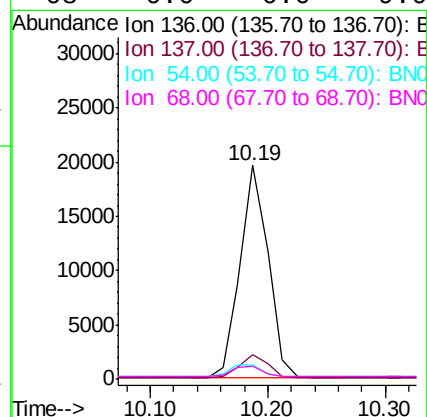
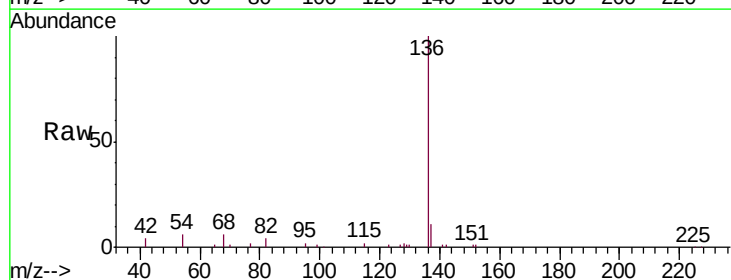
Ion Ratio Lower Upper

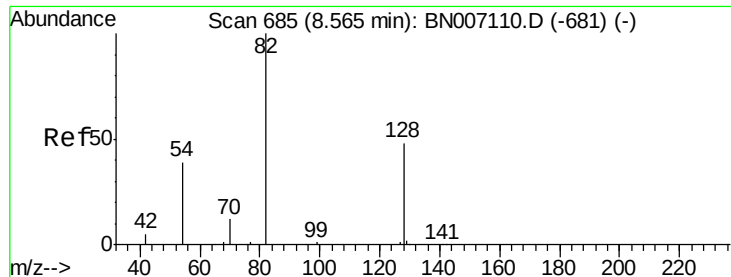
136 100

137 11.2 9.4 14.0

54 6.4 6.6 9.8#

68 6.0 6.0 9.0#





#7

Nitrobenzene-d5

Concen: 0.025 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW093-080519

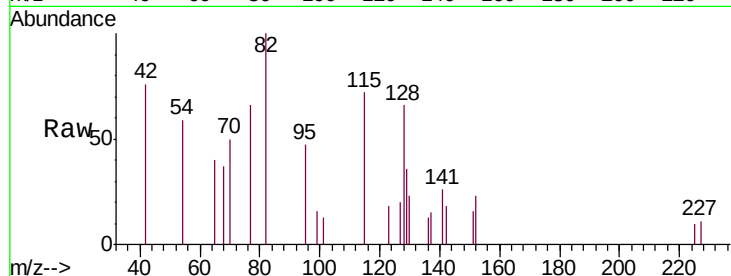
Tgt Ion: 82 Resp: 668

Ion Ratio Lower Upper

82 100

128 66.4 34.6 51.8#

54 59.4 36.2 54.4#

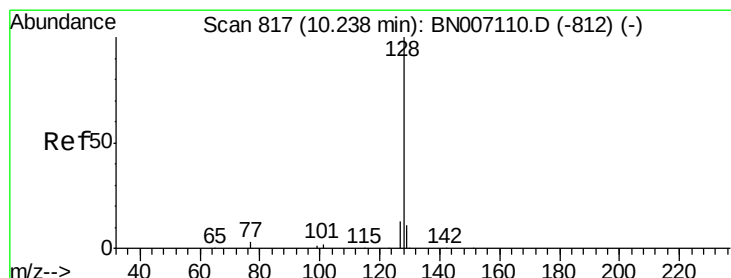
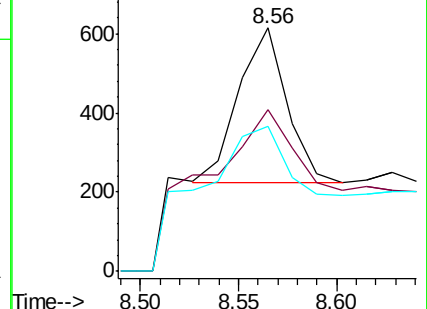
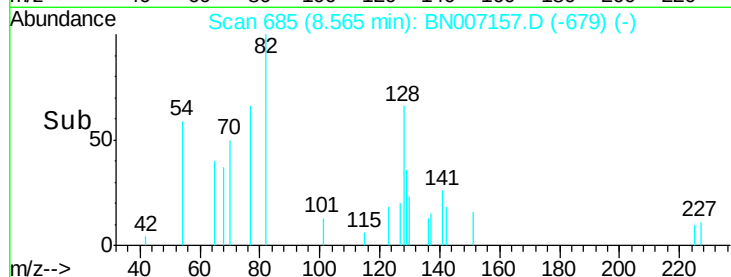


Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

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

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

Time-->



#8

Naphthalene

Concen: 0.373 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

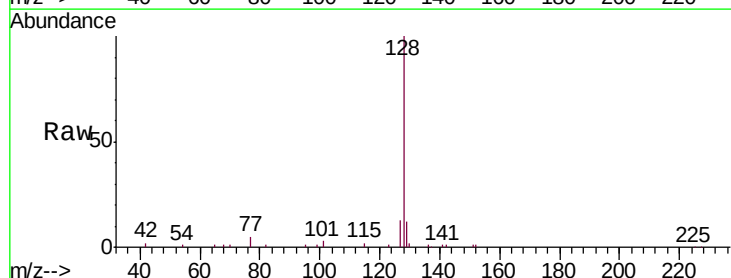
Tgt Ion: 128 Resp: 34095

Ion Ratio Lower Upper

128 100

129 12.0 9.4 14.2

127 13.4 11.0 16.6

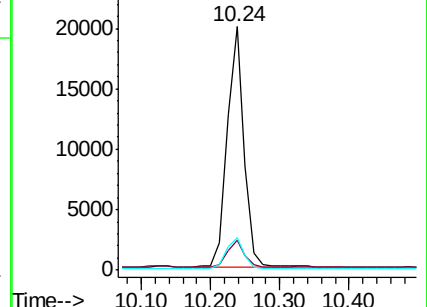
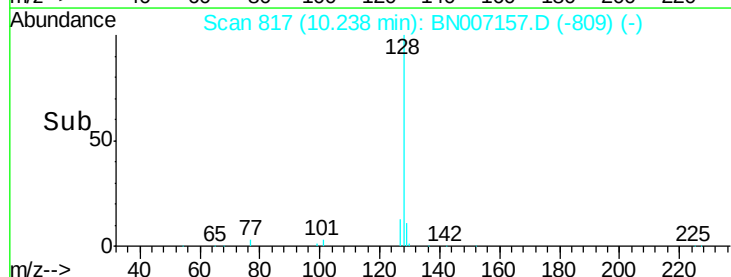


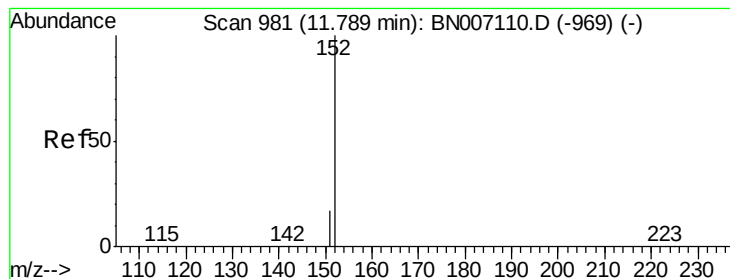
Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

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

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

Time-->





#10

2-Methylnaphthalene-d10

Concen: 0.023 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

Instrument :

BNA_N

ClientSampleId :

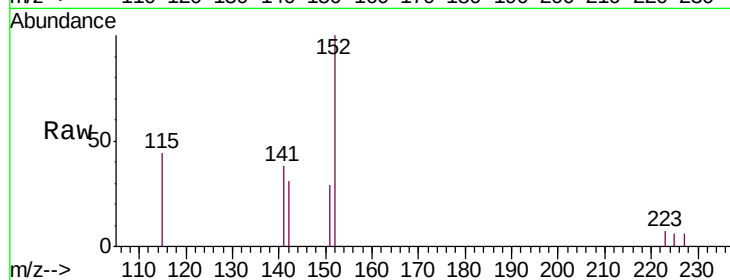
EXT-034-SW093-080519

Tgt Ion:152 Resp: 1404

Ion Ratio Lower Upper

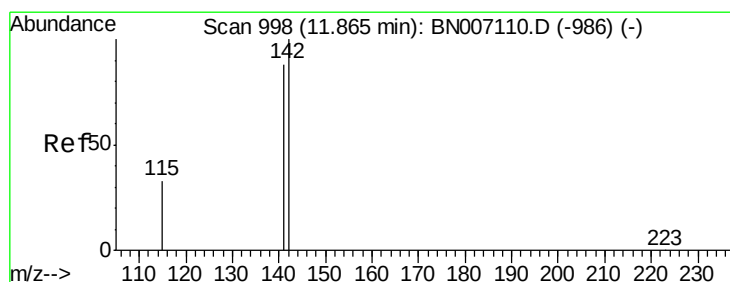
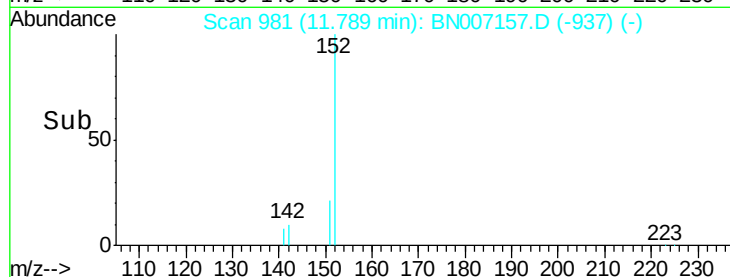
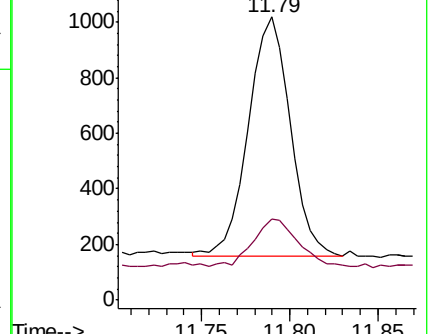
152 100

151 21.9 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#11

2-Methylnaphthalene

Concen: 0.641 ng

RT: 11.87 min Scan# 998

Delta R.T. -0.00 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

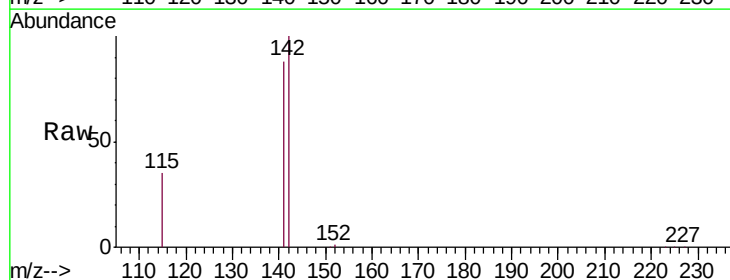
Tgt Ion:142 Resp: 41574

Ion Ratio Lower Upper

142 100

141 88.3 69.0 103.6

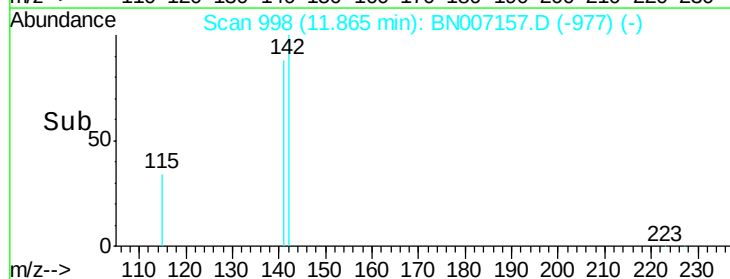
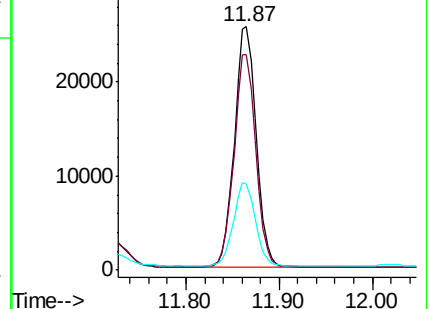
115 35.2 27.1 40.7

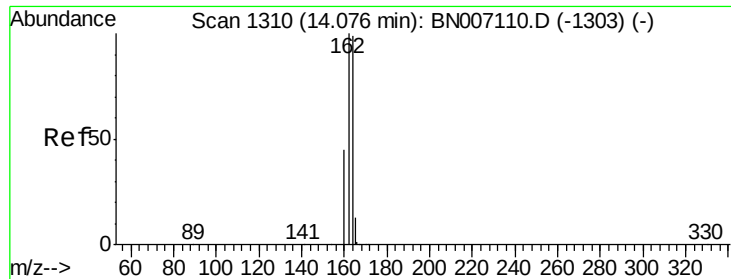


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

Instrument :

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ClientSampleId :

EXT-034-SW093-080519

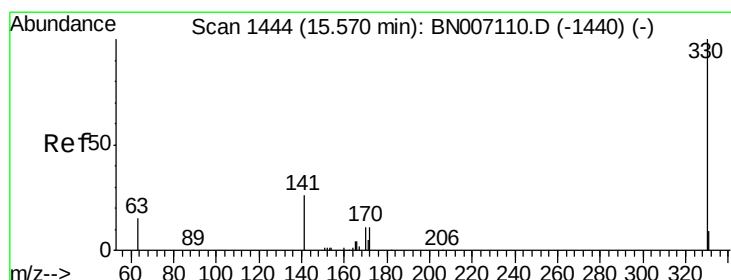
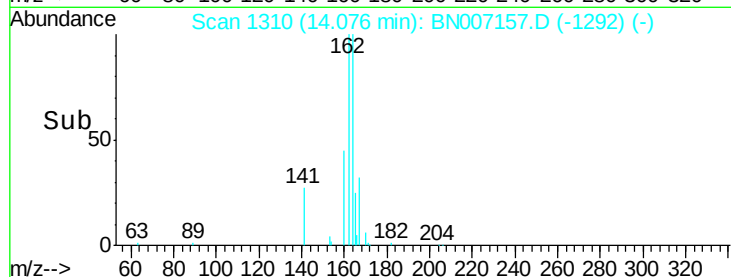
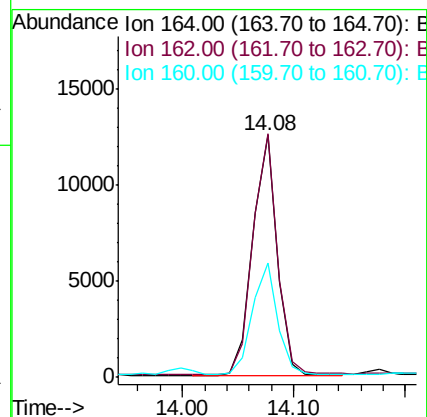
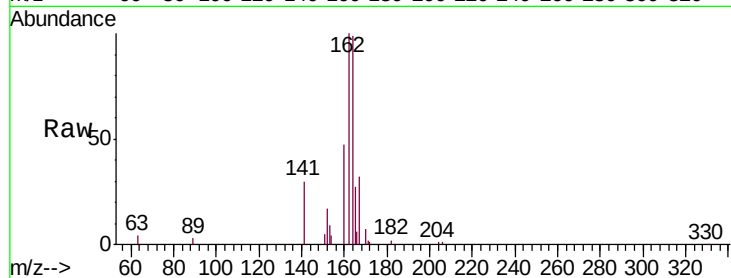
Tgt Ion:164 Resp: 19047

Ion Ratio Lower Upper

164 100

162 100.5 82.2 123.4

160 47.1 38.3 57.5



#13

2,4,6-Tribromophenol

Concen: 0.027 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

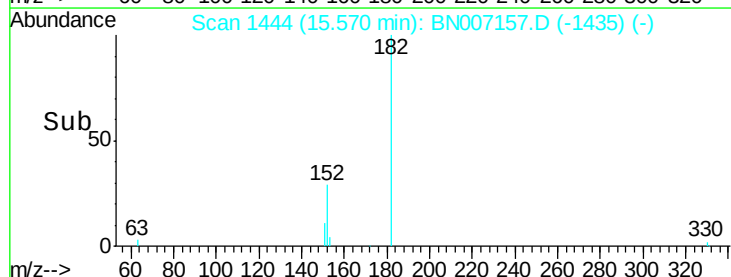
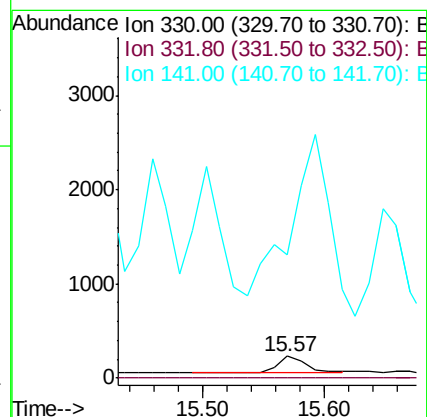
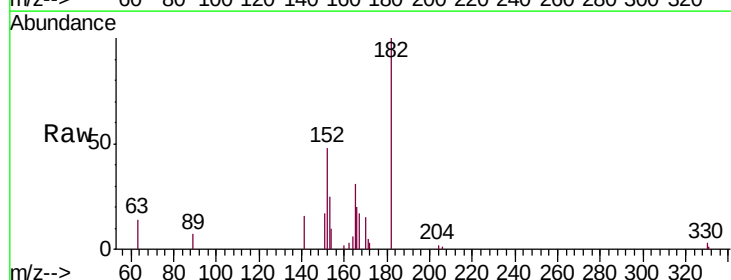
Tgt Ion:330 Resp: 277

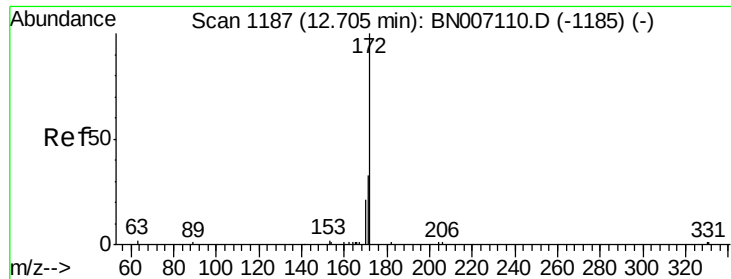
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 0.0 33.6 50.4#

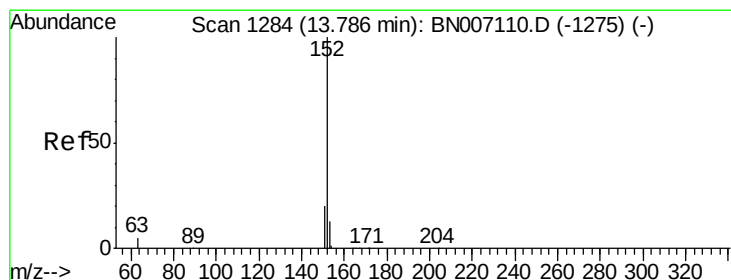
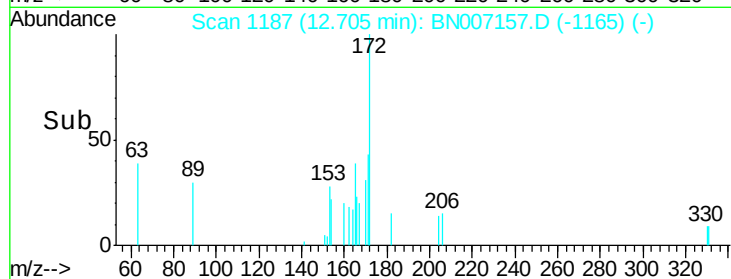
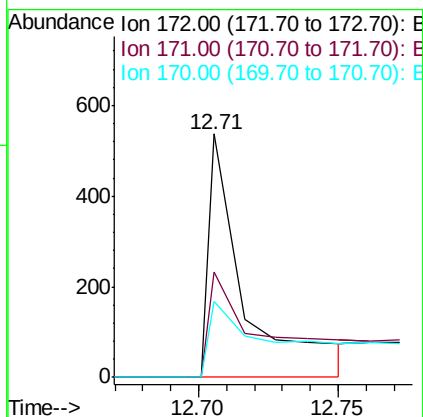
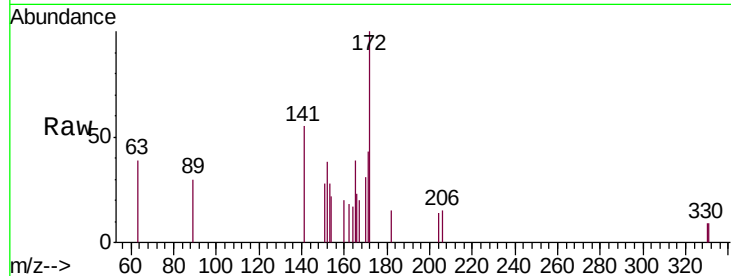




#14
2-Fluorobiphenyl
Concen: 0.017 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007157.D
Acq: 14 Aug 2019 07:33

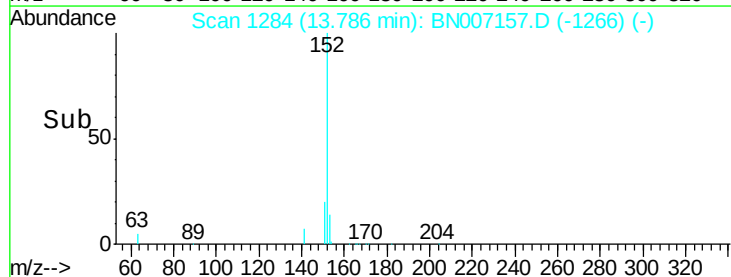
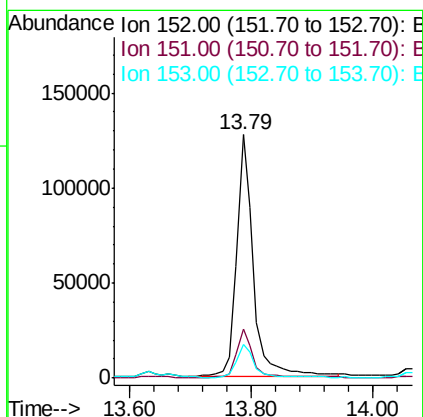
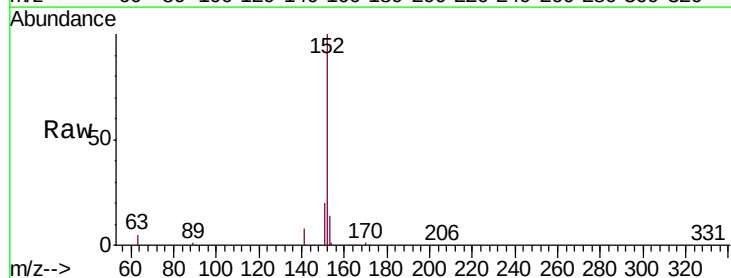
Instrument :
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EXT-034-SW093-080519

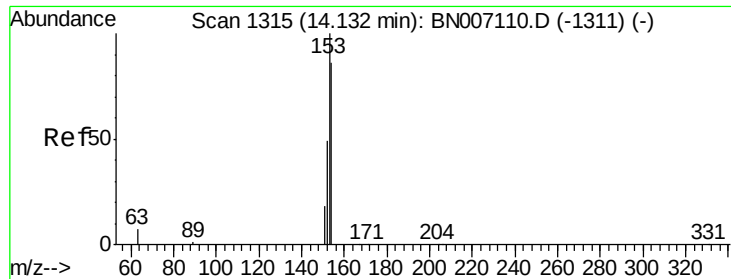
Tgt Ion:172 Resp: 480
Ion Ratio Lower Upper
172 100
171 43.2 26.3 39.5#
170 31.1 17.0 25.4#



#15
Acenaphthylene
Concen: 2.378 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007157.D
Acq: 14 Aug 2019 07:33

Tgt Ion:152 Resp: 236749
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.6
153 14.1 10.4 15.6





#16

Acenaphthene

Concen: 0.605 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW093-080519

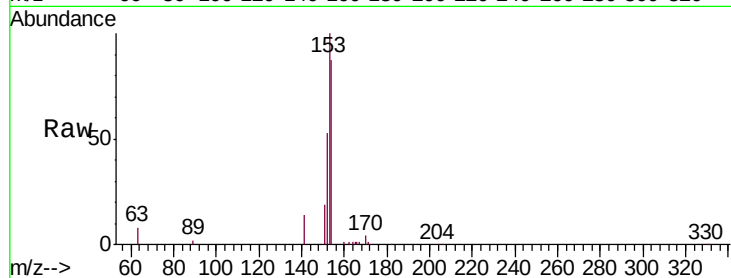
Tgt Ion:154 Resp: 38557

Ion Ratio Lower Upper

154 100

153 121.9 89.5 134.3

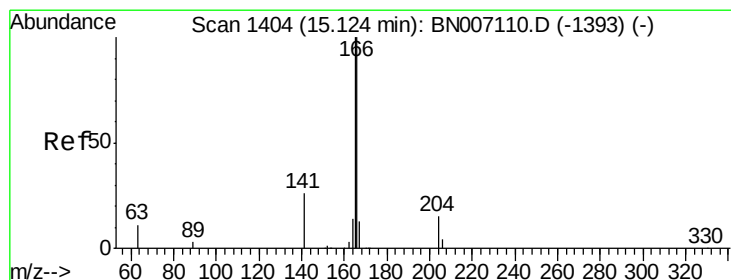
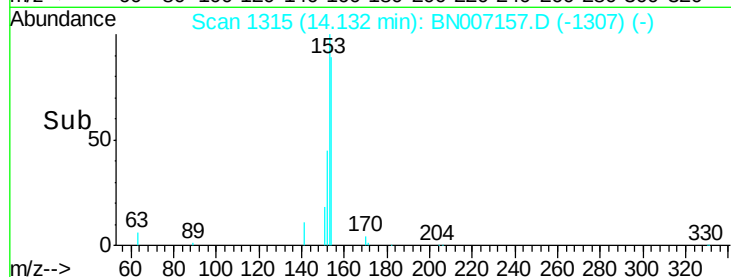
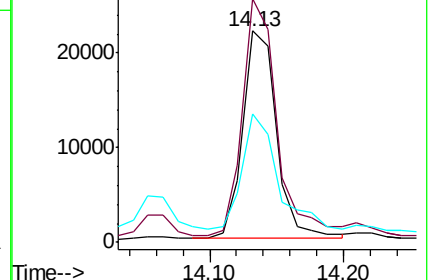
152 57.1 44.8 67.2



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: 0.818 ng

RT: 15.13 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

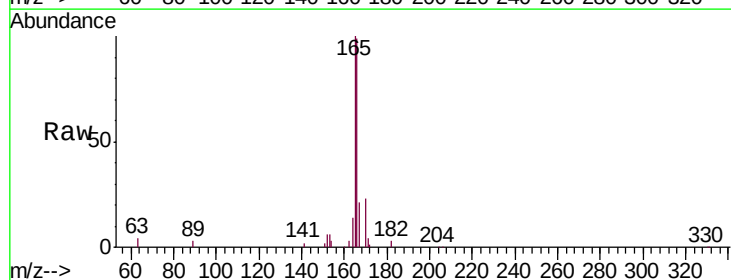
Tgt Ion:166 Resp: 78100

Ion Ratio Lower Upper

166 100

165 112.6 77.9 116.9

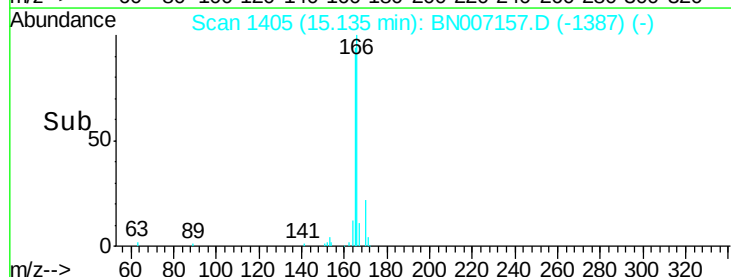
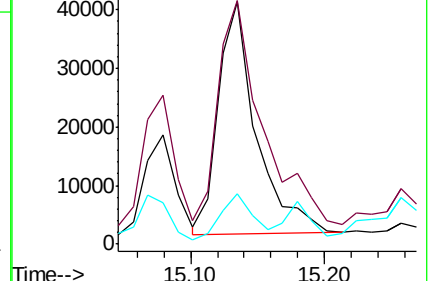
167 16.8 10.9 16.3#

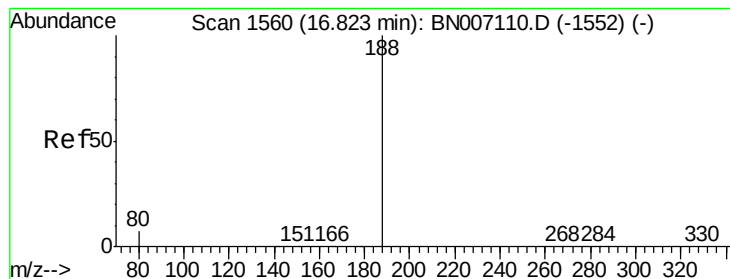


Abundance Ion 166.00 (165.70 to 166.70): E

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: BN007157.D

Acq: 14 Aug 2019 07:33

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW093-080519

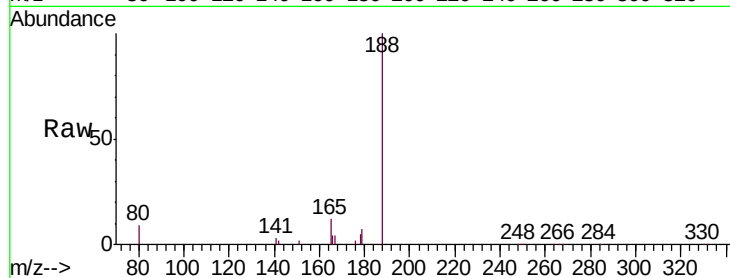
Tgt Ion:188 Resp: 41461

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

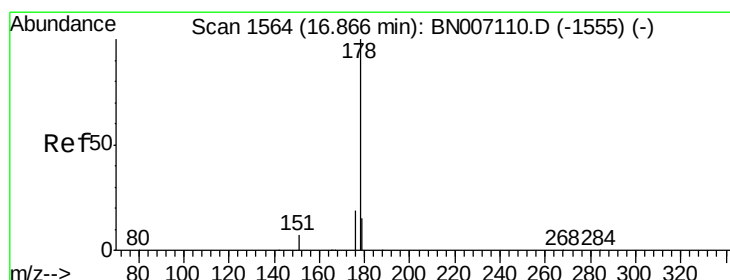
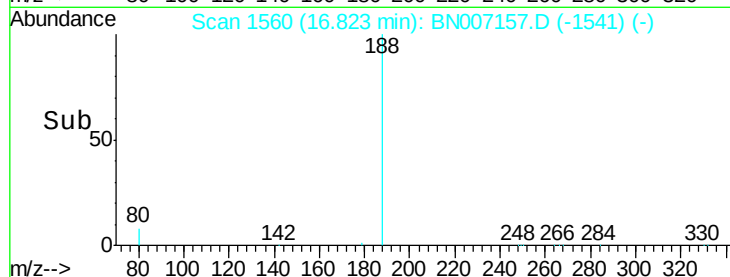
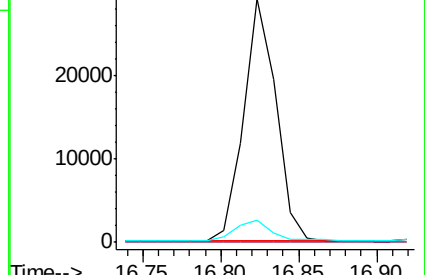
80 9.1 7.8 11.6



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: 15.107 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

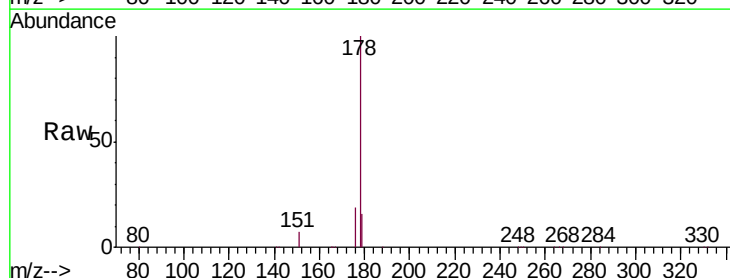
Tgt Ion:178 Resp: 1877061

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

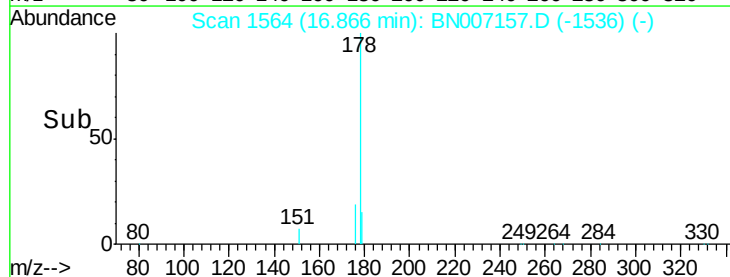
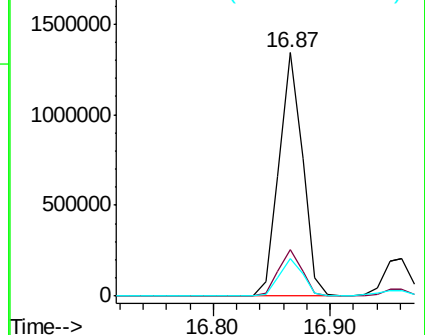
179 15.8 12.3 18.5

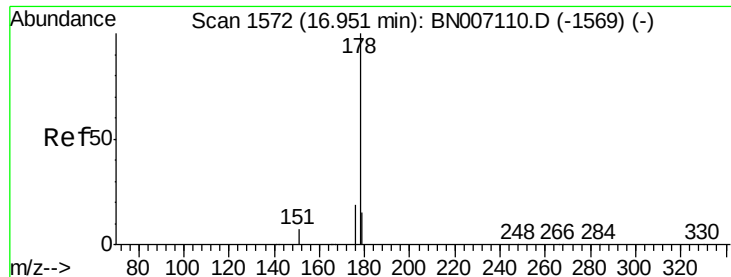


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 2.856 ng

RT: 16.96 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW093-080519

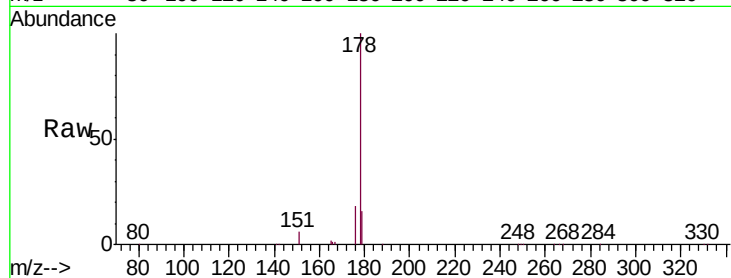
Tgt Ion:178 Resp: 324276

Ion Ratio Lower Upper

178 100

176 18.3 14.6 21.8

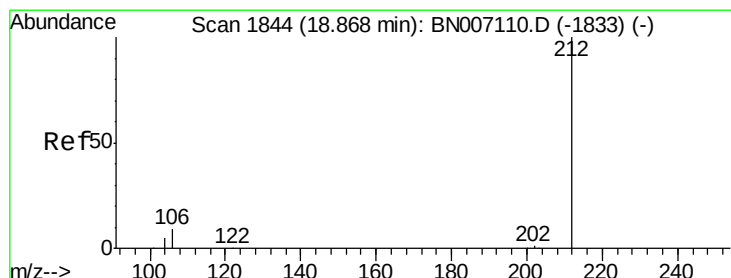
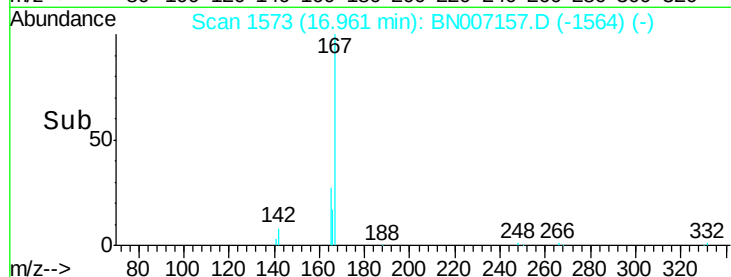
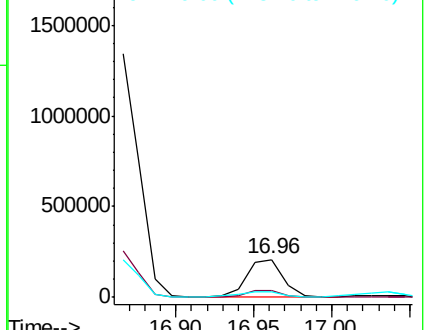
179 16.5 12.5 18.7



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: 0.024 ng

RT: 18.87 min Scan# 1845

Delta R.T. -0.00 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

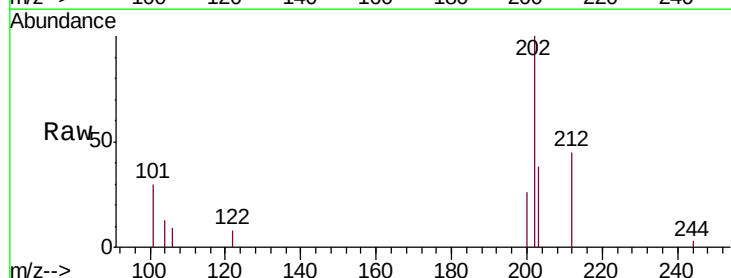
Tgt Ion:212 Resp: 3486

Ion Ratio Lower Upper

212 100

106 10.1 8.2 12.2

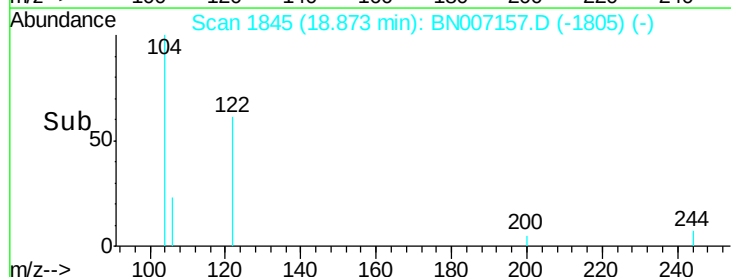
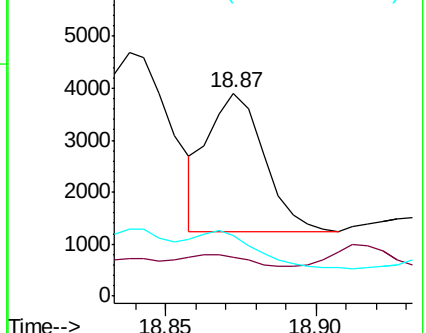
104 31.1 4.5 6.7#

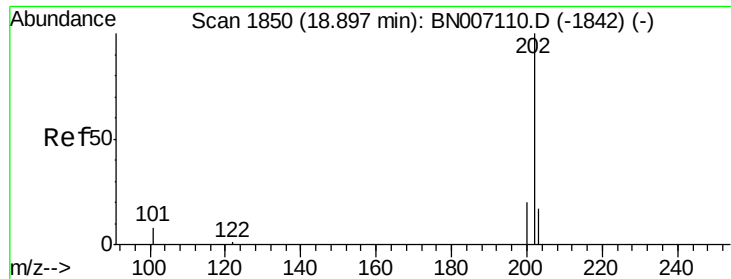


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 13.400 ng

RT: 18.90 min Scan# 1851

Delta R.T. -0.00 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW093-080519

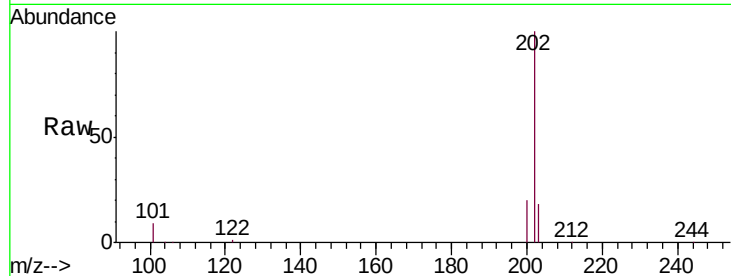
Tgt Ion:202 Resp: 2129923

Ion Ratio Lower Upper

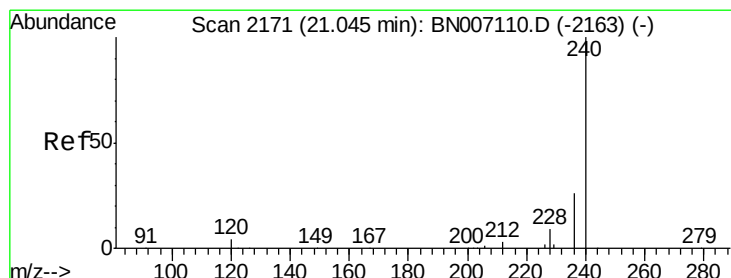
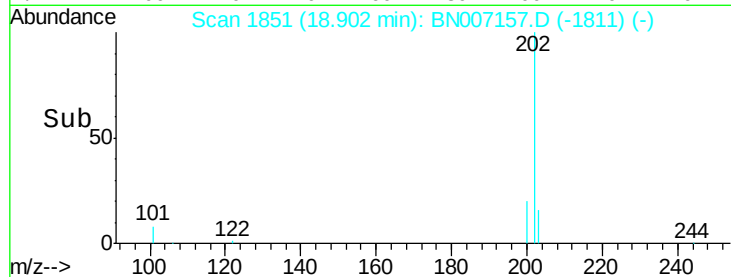
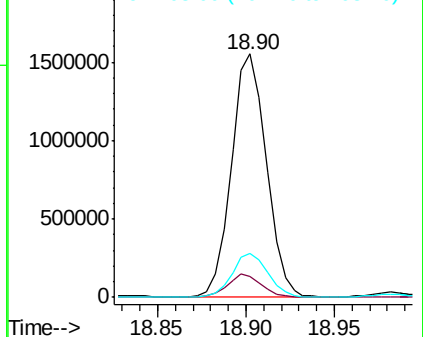
202 100

101 9.1 7.0 10.4

203 18.3 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: BN007157.D

Acq: 14 Aug 2019 07:33

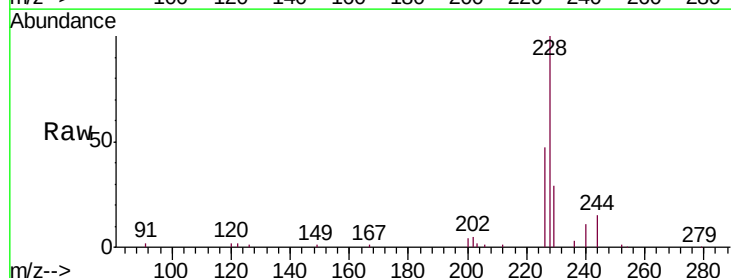
Tgt Ion:240 Resp: 40866

Ion Ratio Lower Upper

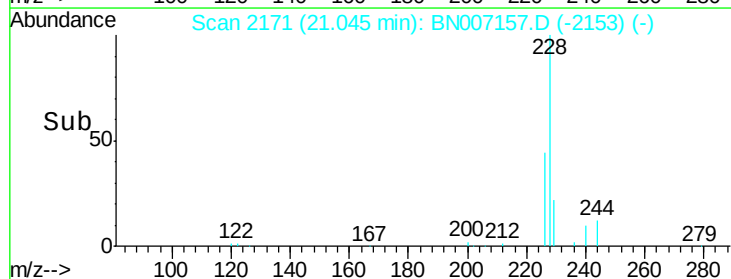
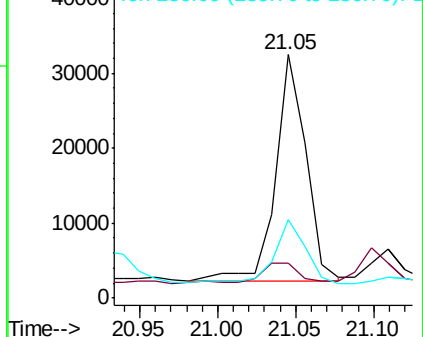
240 100

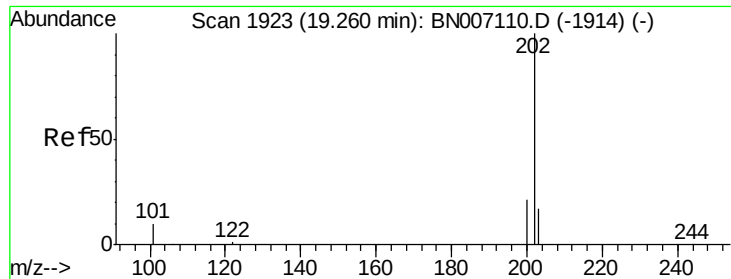
120 14.3 4.0 6.0#

236 32.2 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

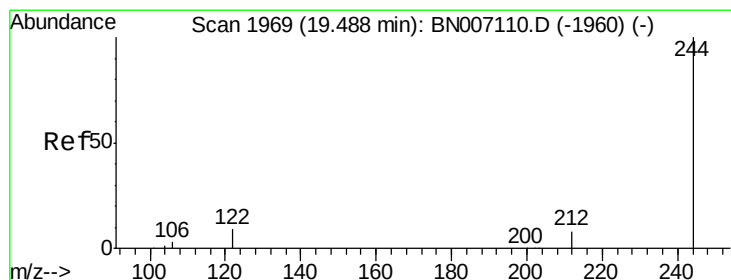
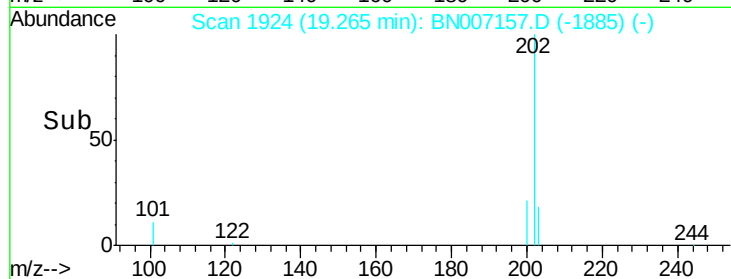
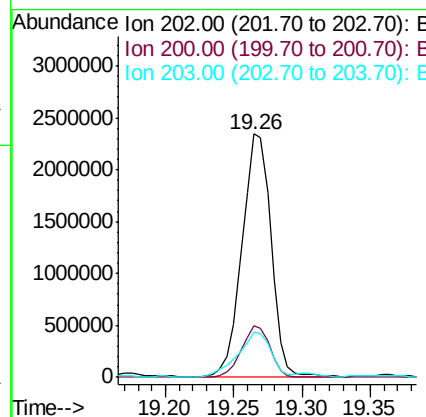
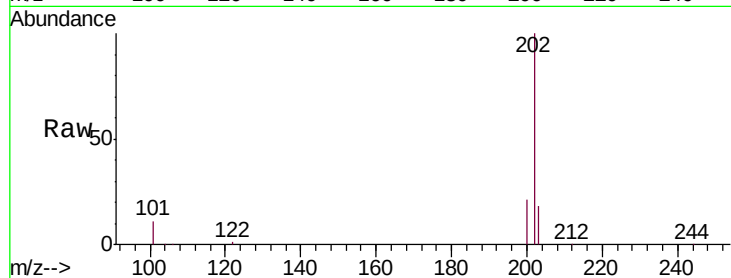




#27
 Pyrene
 Concen: 24.017 ng
 RT: 19.26 min Scan# 1924
 Delta R.T. -0.01 min
 Lab File: BN007157.D
 Acq: 14 Aug 2019 07:33

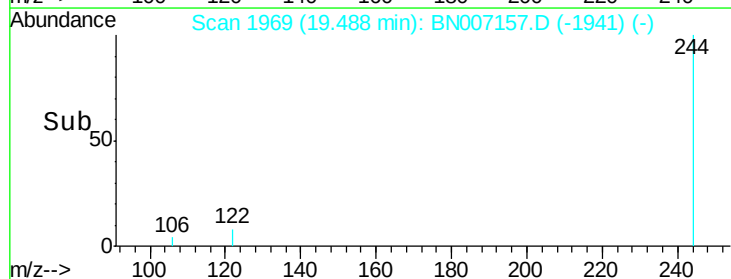
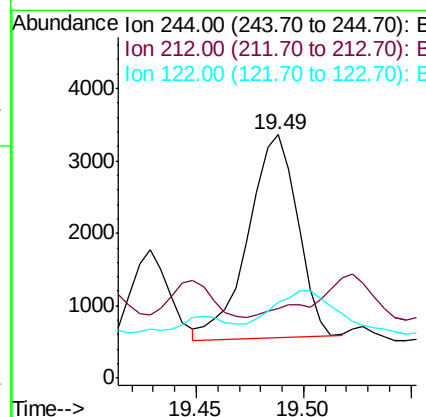
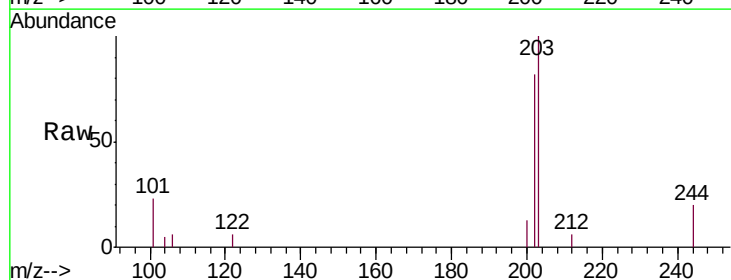
Instrument :
 BNA_N
 ClientSampleId :
 EXT-034-SW093-080519

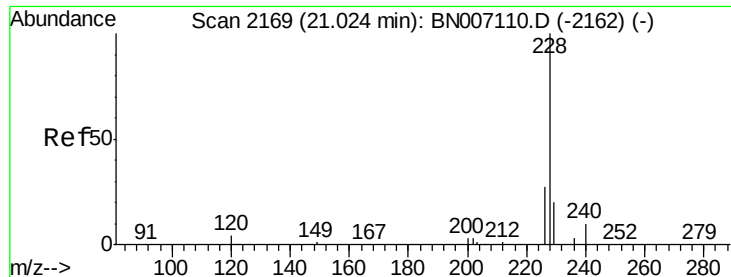
Tgt Ion:202 Resp: 3441900
 Ion Ratio Lower Upper
 202 100
 200 21.0 16.6 24.8
 203 21.0 14.0 21.0#



#28
 Terphenyl-d14
 Concen: 0.040 ng
 RT: 19.49 min Scan# 1969
 Delta R.T. -0.01 min
 Lab File: BN007157.D
 Acq: 14 Aug 2019 07:33

Tgt Ion:244 Resp: 4479
 Ion Ratio Lower Upper
 244 100
 212 28.8 6.2 9.2#
 122 31.3 7.4 11.2#





#29

Benzo(a)anthracene

Concen: 10.502 ng

RT: 21.03 min Scan# 2170

Delta R.T. -0.00 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW093-080519

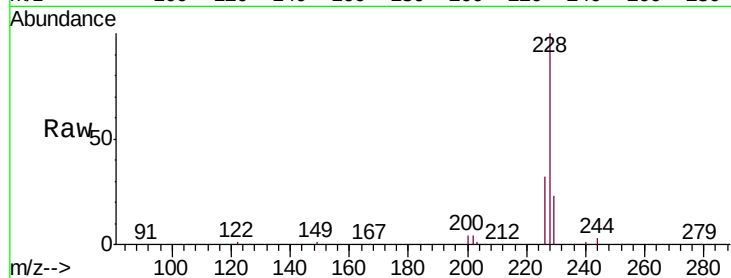
Tgt Ion:228 Resp: 1569530

Ion Ratio Lower Upper

228 100

226 32.4 21.8 32.6

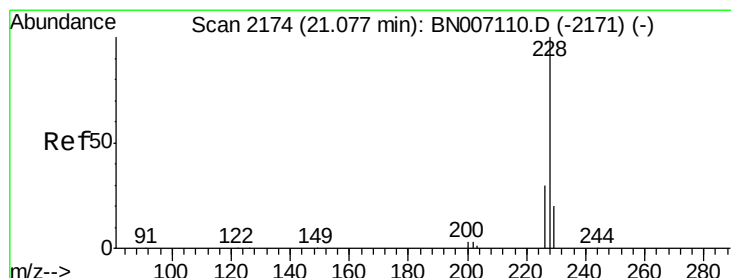
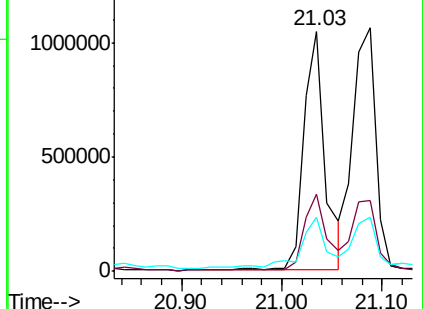
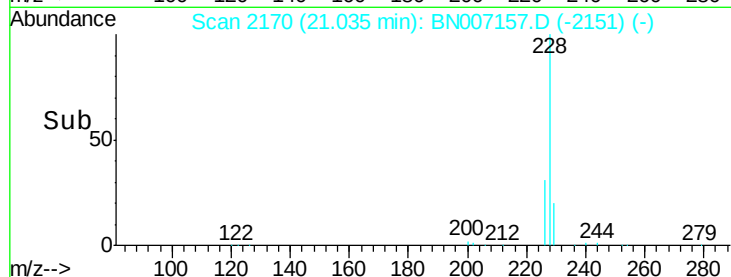
229 22.7 15.6 23.4



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: 11.531 ng

RT: 21.09 min Scan# 2175

Delta R.T. -0.00 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

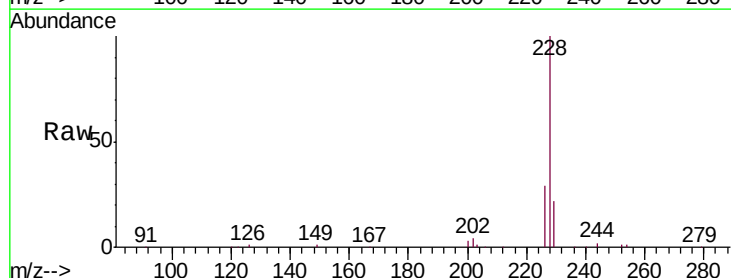
Tgt Ion:228 Resp: 1674293

Ion Ratio Lower Upper

228 100

226 29.3 23.8 35.6

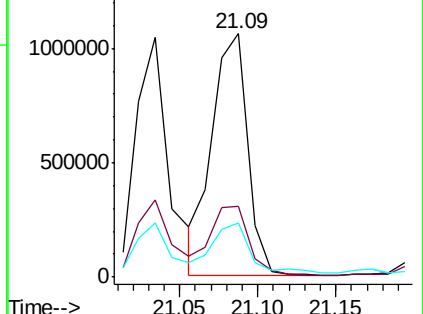
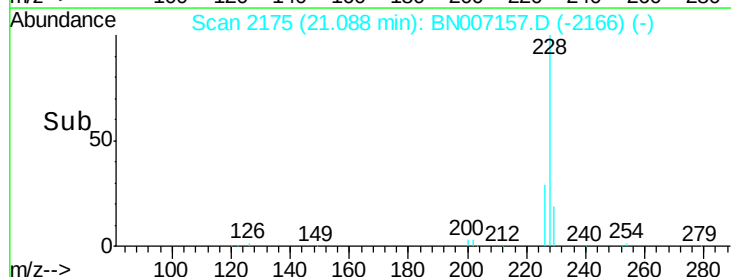
229 22.1 15.7 23.5

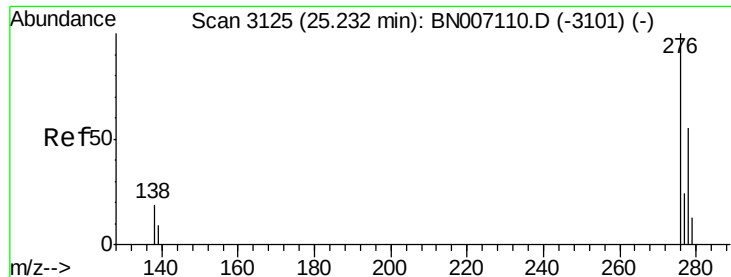


Abundance Ion 228.00 (227.70 to 228.70): E

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: 4.515 ng

RT: 25.25 min Scan# 3129

Delta R.T. -0.01 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW093-080519

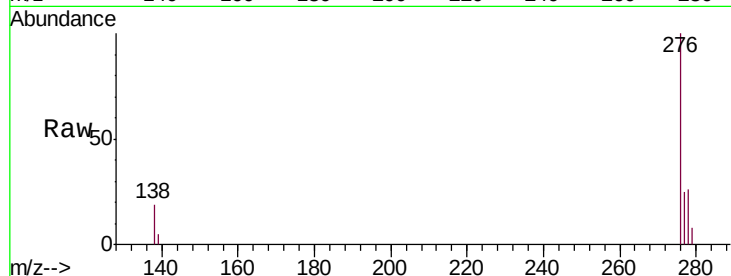
Tgt Ion: 276 Resp: 722629

Ion Ratio Lower Upper

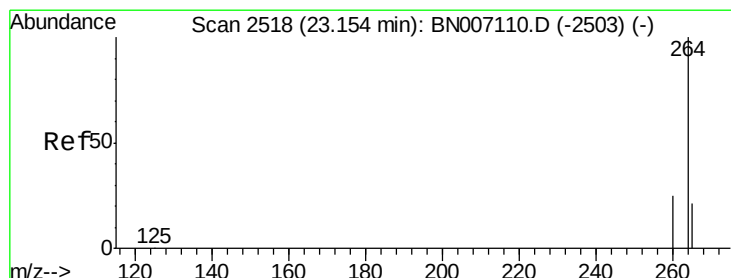
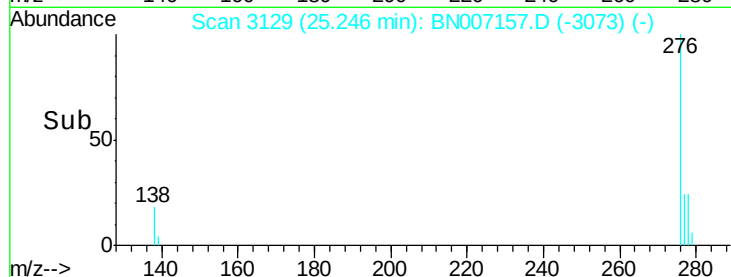
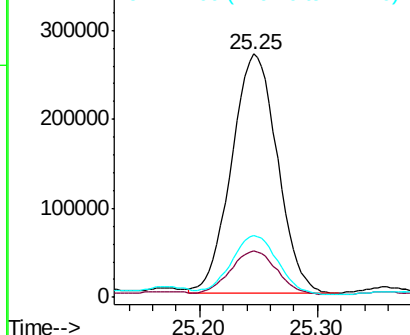
276 100

138 18.7 16.0 24.0

277 25.1 19.9 29.9



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



#32

Perylene-d12

Concen: 0.400 ng

RT: 23.16 min Scan# 2521

Delta R.T. -0.01 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

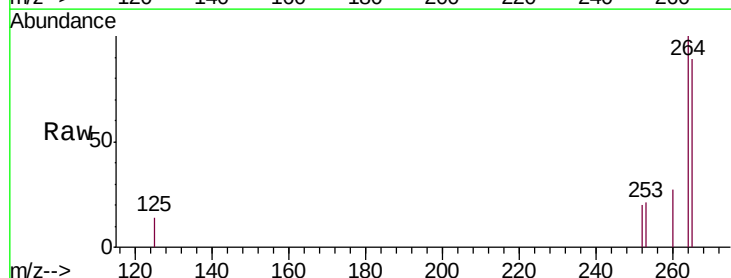
Tgt Ion: 264 Resp: 51273

Ion Ratio Lower Upper

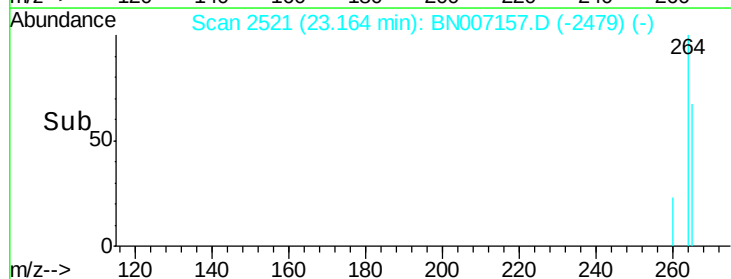
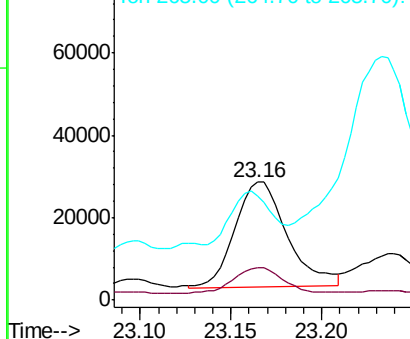
264 100

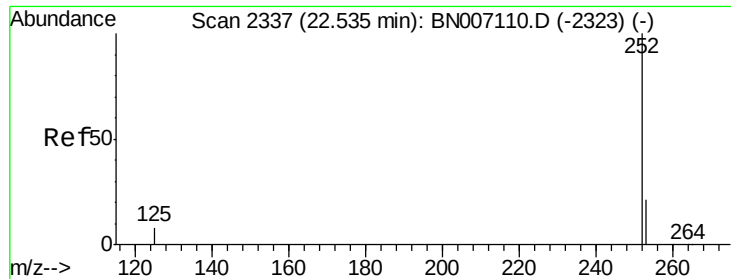
260 27.4 19.8 29.8

265 88.6 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: 8.286 ng

RT: 22.55 min Scan# 2341

Delta R.T. -0.00 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW093-080519

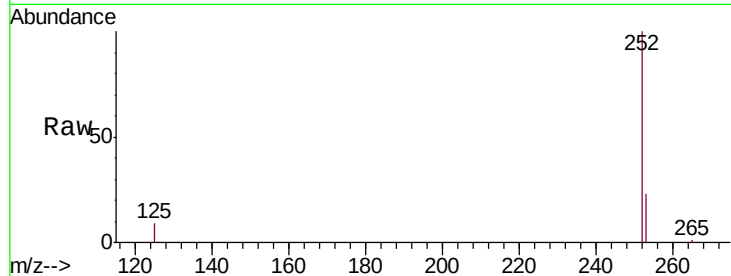
Tgt Ion:252 Resp: 1456834

Ion Ratio Lower Upper

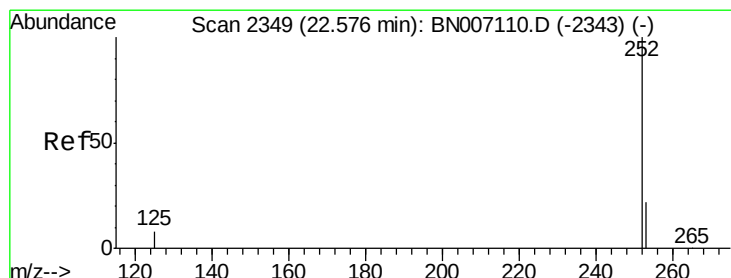
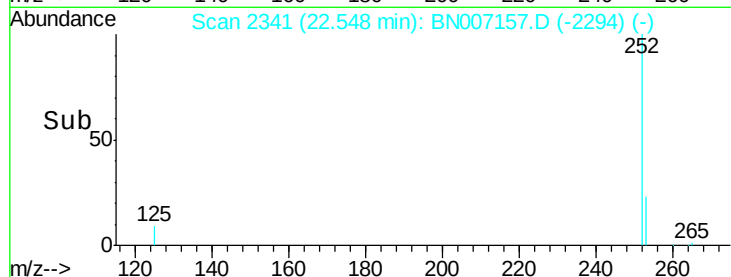
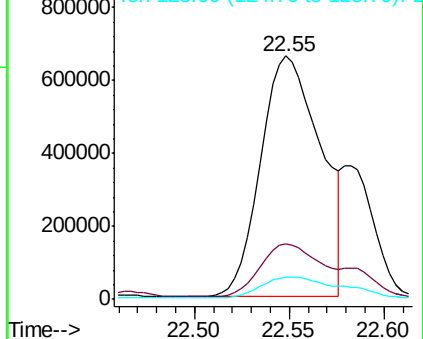
252 100

253 22.9 18.2 27.2

125 9.2 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: 2.413 ng m

RT: 22.58 min Scan# 2351

Delta R.T. -0.01 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

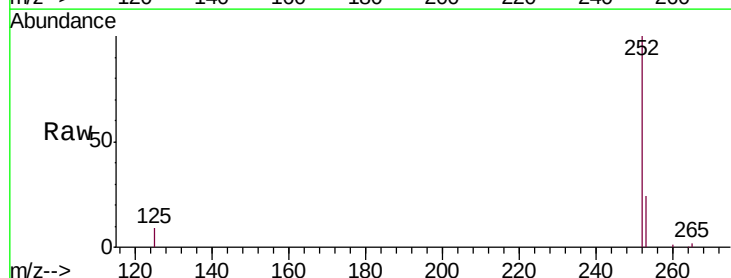
Tgt Ion:252 Resp: 418922

Ion Ratio Lower Upper

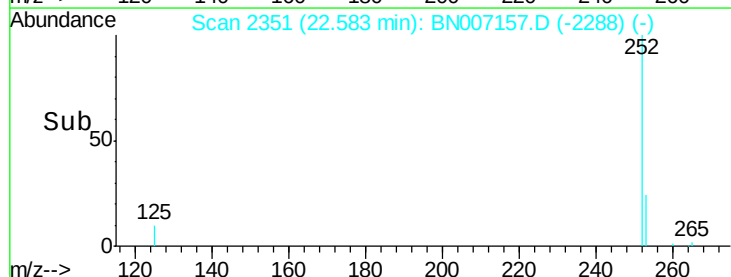
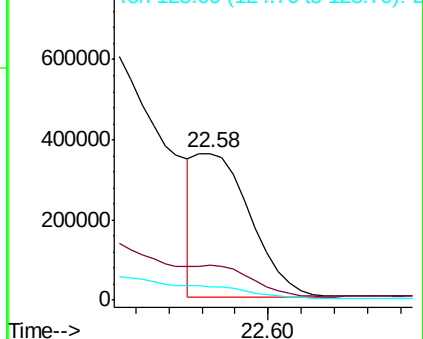
252 100

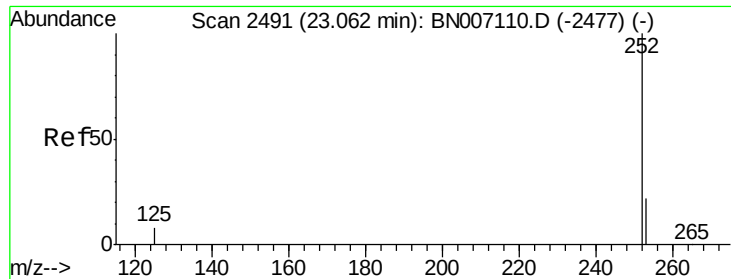
253 23.5 18.1 27.1

125 9.3 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: 7.746 ng

RT: 23.08 min Scan# 2495

Delta R.T. -0.01 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW093-080519

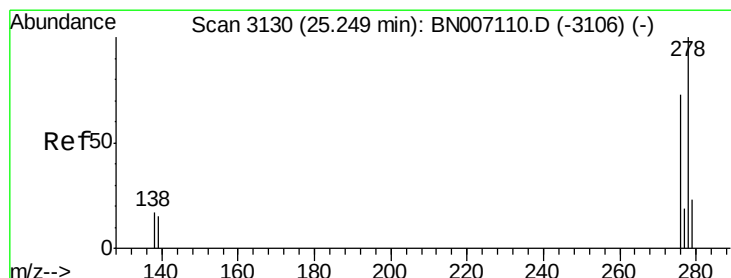
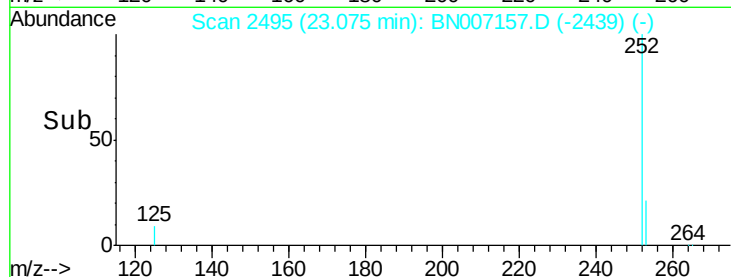
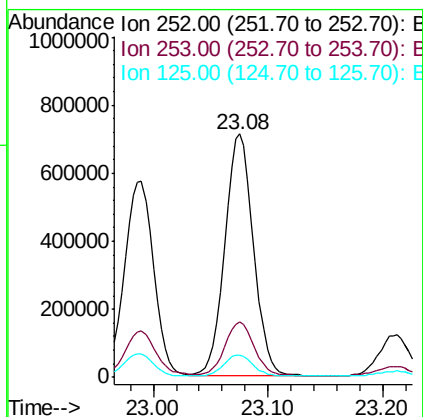
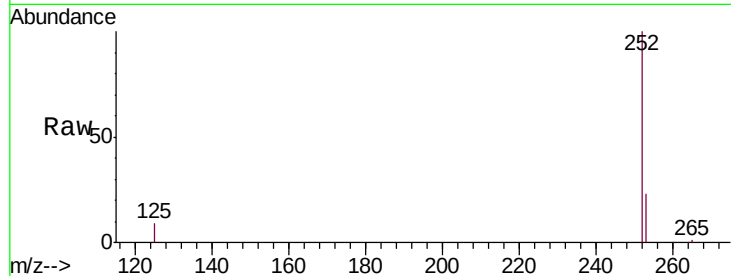
Tgt Ion:252 Resp: 1234756

Ion Ratio Lower Upper

252 100

253 22.9 18.5 27.7

125 9.3 8.2 12.4



#36

Dibenzo(a,h)anthracene

Concen: 1.450 ng

RT: 25.26 min Scan# 3132

Delta R.T. -0.02 min

Lab File: BN007157.D

Acq: 14 Aug 2019 07:33

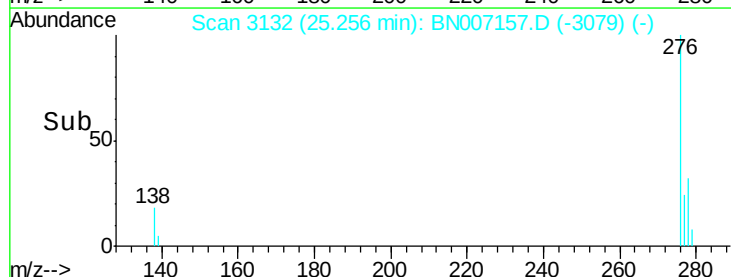
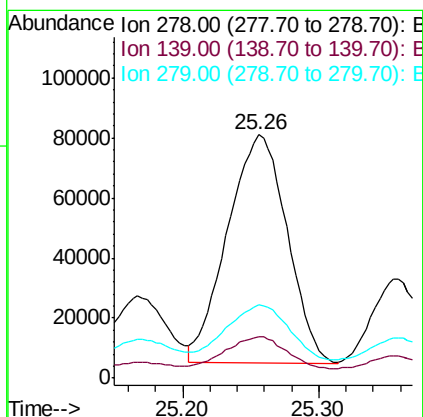
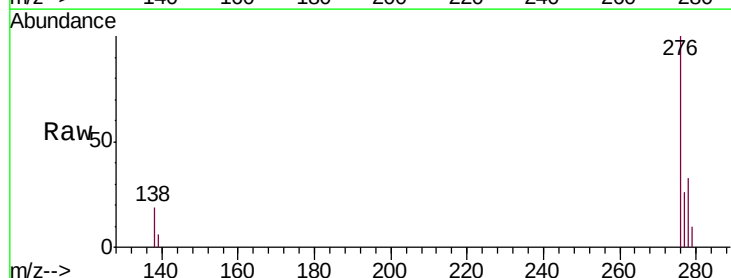
Tgt Ion:278 Resp: 230609

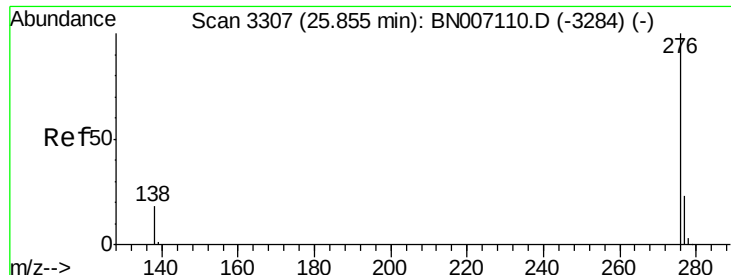
Ion Ratio Lower Upper

278 100

139 17.0 11.3 16.9#

279 30.2 19.3 28.9#





#37

Benzo(g,h,i)perylene

Concen: 5.320 ng

RT: 25.88 min Scan# 3313

Delta R.T. -0.00 min

Lab File: BN007157.D

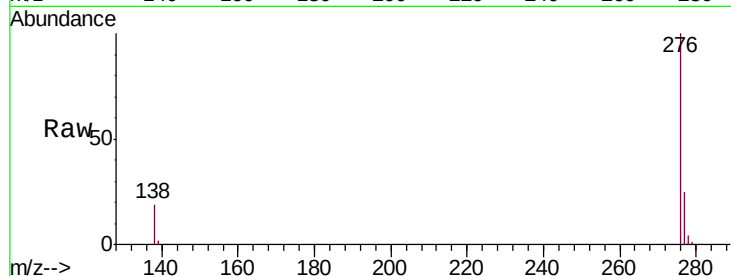
Acq: 14 Aug 2019 07:33

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW093-080519



Tgt Ion: 276 Resp: 870333

Ion Ratio Lower Upper

276 100

277 24.7 19.8 29.8

138 19.0 14.6 22.0

