

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
 Data File : BN007114.D
 Acq On : 13 Aug 2019 04:30
 Operator : HP/JU
 Sample : K4143-15
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 13 06:29:12 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Aug 10 21:44:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	9302	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	36108	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	21241	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	51412	0.40	ng	0.00
26) Chrysene-d12	21.05	240	50869	0.40	ng	-0.01
32) Perylene-d12	23.15	264	55087	0.40	ng	-0.02

System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	6906	0.31	ng	0.00
4) Phenol-d6	6.61	99	9407	0.34	ng	0.00
7) Nitrobenzene-d5	8.56	82	7409	0.25	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	16945	0.25	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2753	0.24	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	4128	0.13	ng	0.00
24) Fluoranthene-d10	18.87	212	43805	0.24	ng	0.00
28) Terphenyl-d14	19.49	244	34367	0.25	ng	-0.01

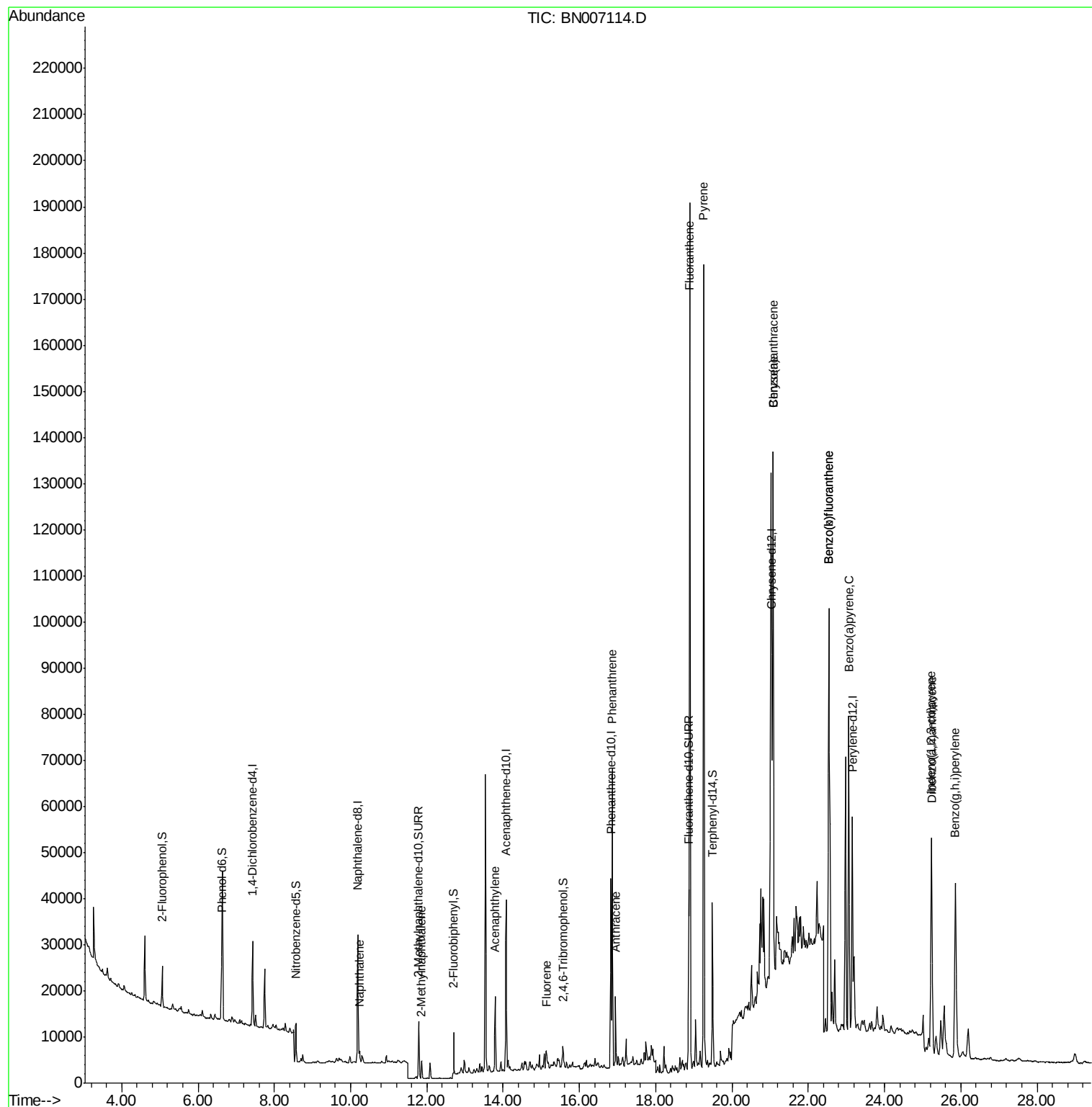
Target Compounds				Qvalue		
8) Naphthalene	10.24	128	3128	0.031	ng	# 89
11) 2-Methylnaphthalene	11.87	142	2813	0.039	ng	# 92
15) Acenaphthylene	13.79	152	19417	0.175	ng	98
17) Fluorene	15.14	166	3480	0.033	ng	# 81
22) Phenanthrene	16.87	178	66079	0.429	ng	100
23) Anthracene	16.95	178	16546	0.118	ng	# 96
25) Fluoranthene	18.90	202	165156	0.838	ng	100
27) Pyrene	19.26	202	163344	0.916	ng	96
29) Benzo(a)anthracene	21.08	228	107380	0.577	ng	93
30) Chrysene	21.08	228	107035	0.592	ng	96
31) Indeno(1,2,3-cd)pyrene	25.23	276	71731	0.360	ng	98
33) Benzo(b)fluoranthene	22.54	252	152886	0.809	ng	# 95
34) Benzo(k)fluoranthene	22.54	252	152886	0.820	ng	# 95
35) Benzo(a)pyrene	23.06	252	89279	0.521	ng	# 94
36) Dibenzo(a,h)anthracene	25.24	278	18248	0.107	ng	# 64
37) Benzo(g,h,i)perylene	25.86	276	74210	0.422	ng	95

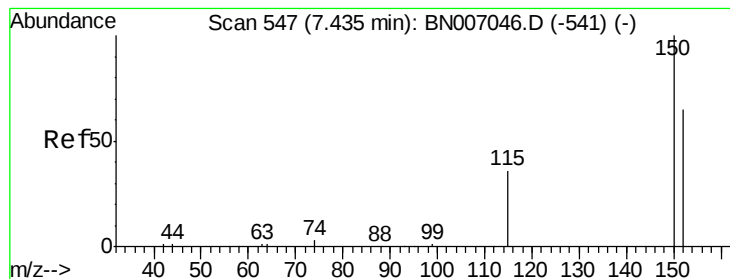
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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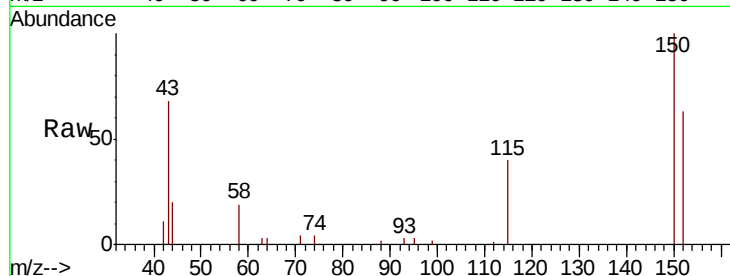


#1

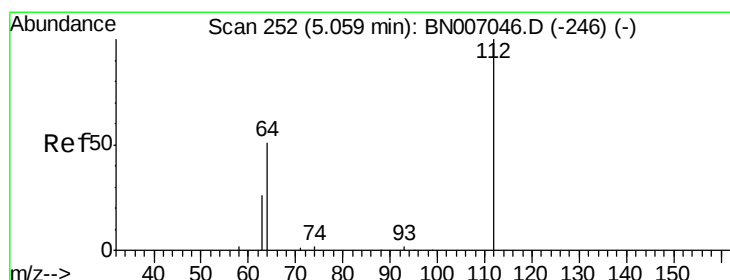
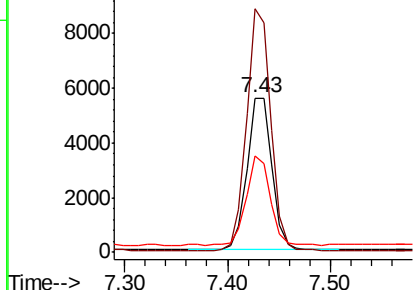
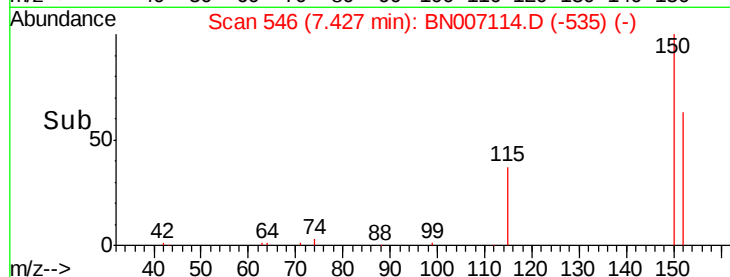
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.43 min Scan# 546
 Delta R.T. -0.01 min
 Lab File: BN007114.D
 Acq: 13 Aug 2019 04:30

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:152 Resp: 9302
 Ion Ratio Lower Upper
 152 100
 150 158.0 121.7 182.5
 115 62.7 46.2 69.4



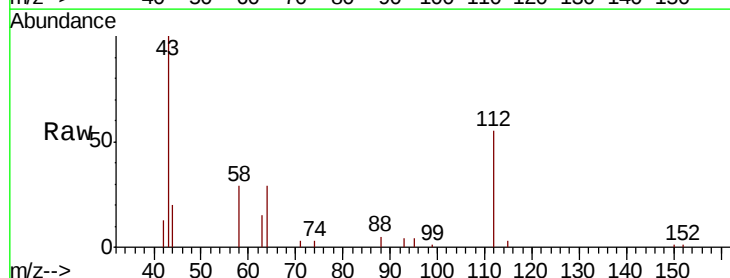
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



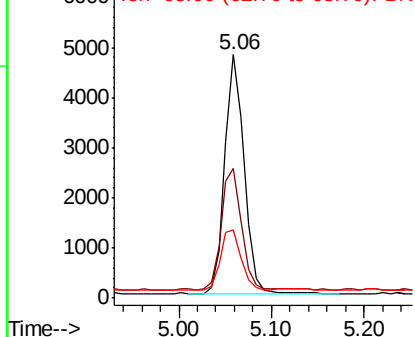
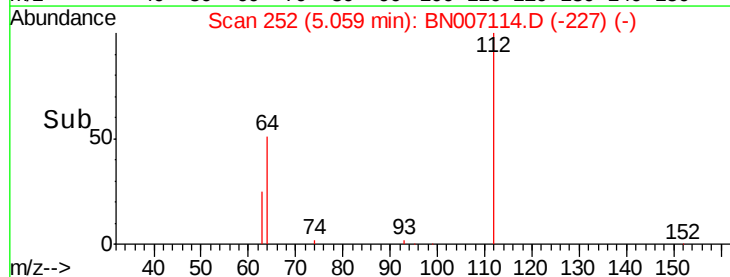
#3

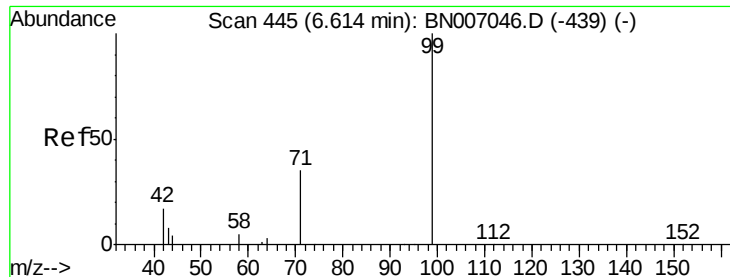
2-Fluorophenol
 Concen: 0.309 ng
 RT: 5.06 min Scan# 252
 Delta R.T. -0.00 min
 Lab File: BN007114.D
 Acq: 13 Aug 2019 04:30

Tgt Ion:112 Resp: 6906
 Ion Ratio Lower Upper
 112 100
 64 52.3 42.6 63.8
 63 27.1 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: 0.340 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

Instrument :

BNA_N

ClientSampleId :

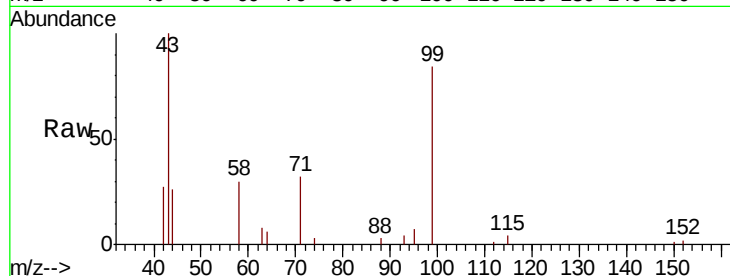
Tot Ion: 99 Resp: 9407

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

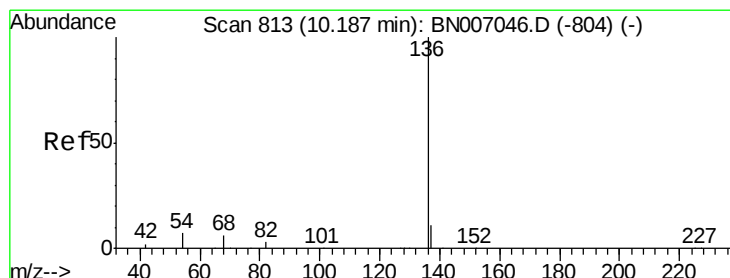
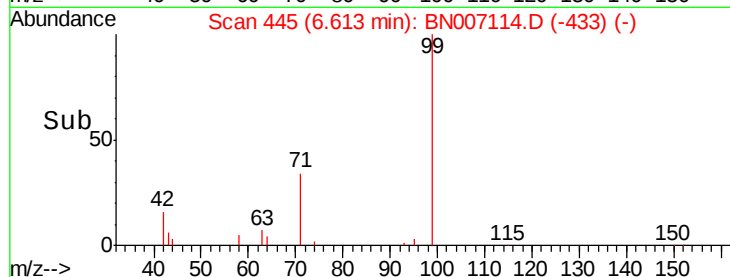
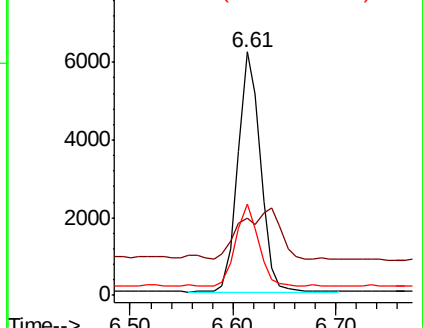
71 34.6 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007114.D (-433) (-)

Ion 42.00 (41.70 to 42.70): BN007114.D (-433) (-)

Ion 71.00 (70.70 to 71.70): BN007114.D (-433) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

Tgt Ion: 136 Resp: 36108

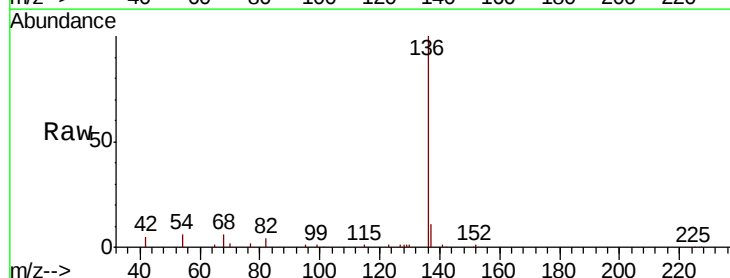
Ion Ratio Lower Upper

136 100

137 11.4 9.4 14.0

54 6.3 6.6 9.8#

68 5.7 6.0 9.0#

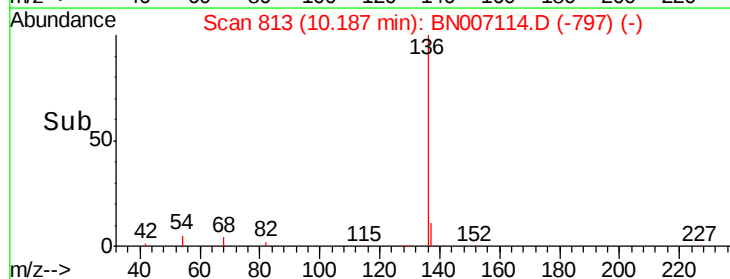
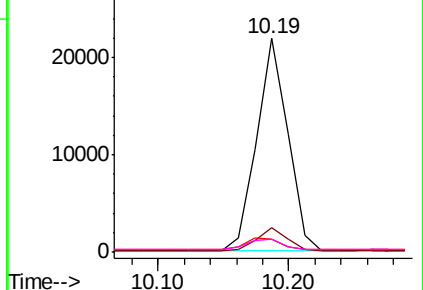


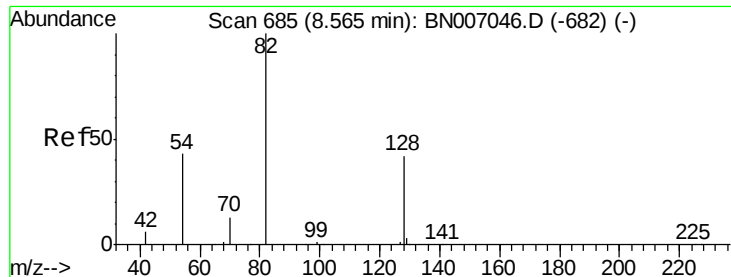
Abundance Ion 136.00 (135.70 to 136.70): BN007114.D (-797) (-)

Ion 137.00 (136.70 to 137.70): BN007114.D (-797) (-)

Ion 54.00 (53.70 to 54.70): BN007114.D (-797) (-)

Ion 68.00 (67.70 to 68.70): BN007114.D (-797) (-)





#7

Nitrobenzene-d5

Concen: 0.254 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

Instrument :

BNA_N

ClientSampled :

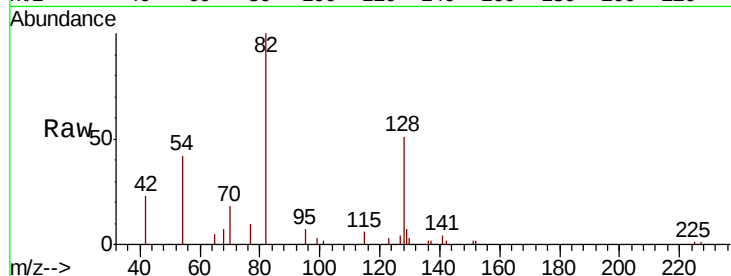
Tot Ion: 82 Resp: 7409

Ion Ratio Lower Upper

82 100

128 51.1 34.6 51.8

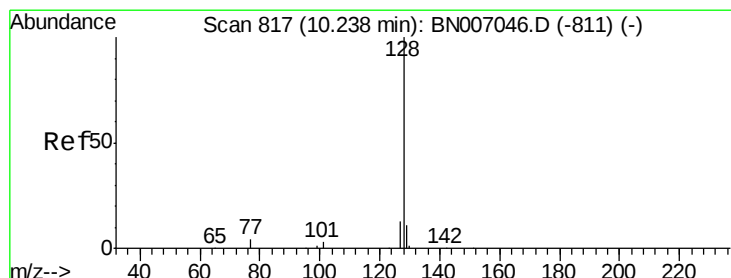
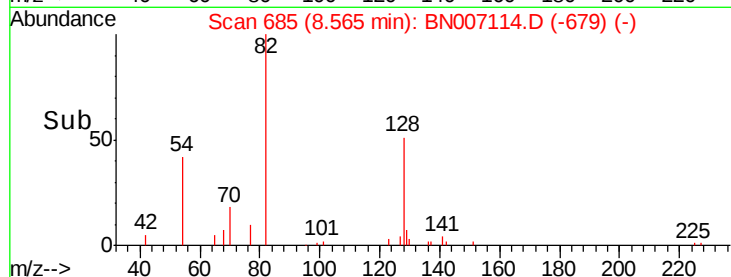
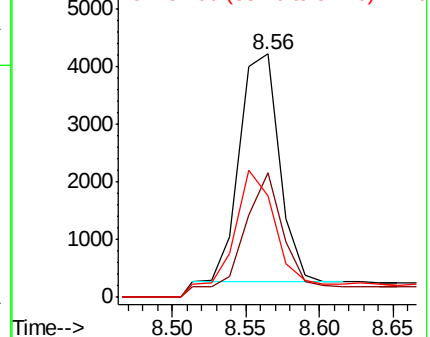
54 41.7 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007046.D (-682) (-)

Ion 128.00 (127.70 to 128.70): BN007046.D (-682) (-)

Ion 54.00 (53.70 to 54.70): BN007046.D (-682) (-)



#8

Naphthalene

Concen: 0.031 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

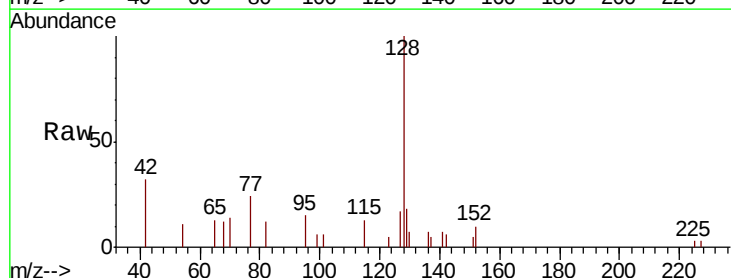
Tgt Ion: 128 Resp: 3128

Ion Ratio Lower Upper

128 100

129 18.0 9.4 14.2#

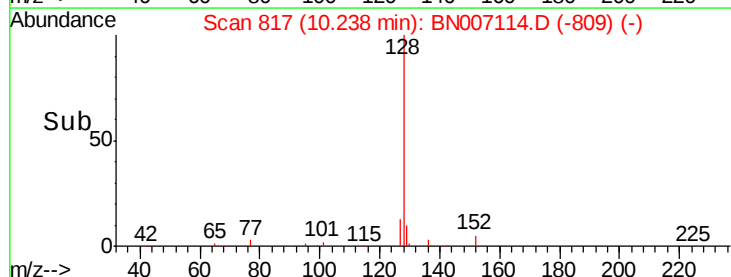
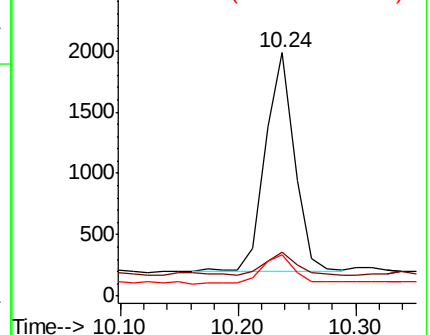
127 16.7 11.0 16.6#

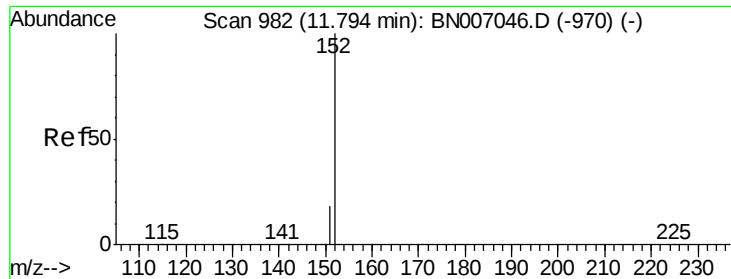


Abundance Ion 128.00 (127.70 to 128.70): BN007046.D (-811) (-)

Ion 129.00 (128.70 to 129.70): BN007046.D (-811) (-)

Ion 127.00 (126.70 to 127.70): BN007046.D (-811) (-)

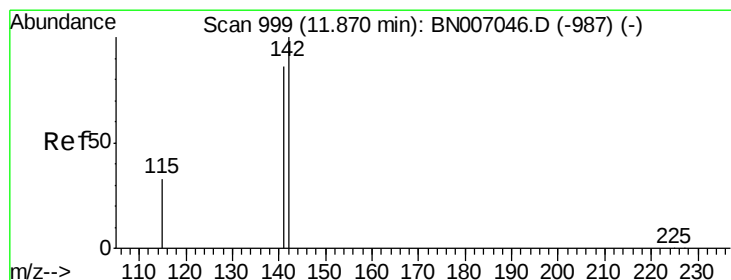
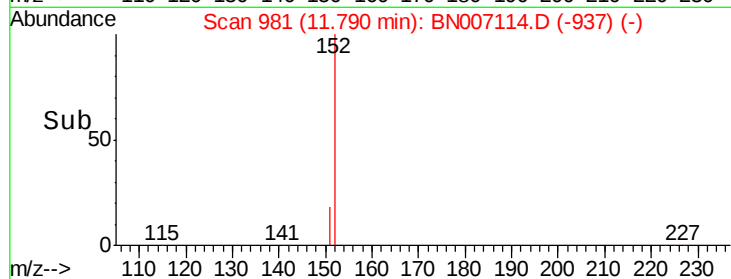
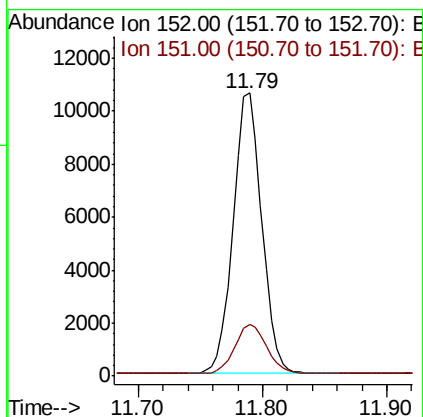
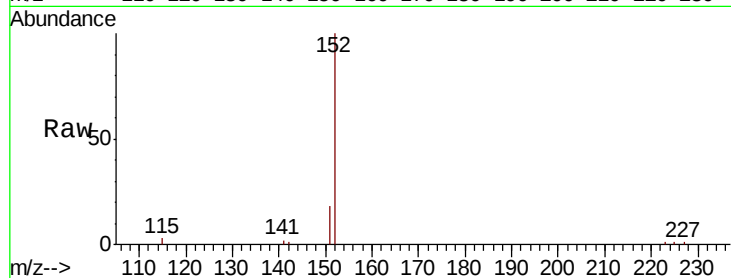




#10
 2-Methylnaphthalene-d10
 Concen: 0.252 ng
 RT: 11.79 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: BN007114.D
 Acq: 13 Aug 2019 04:30

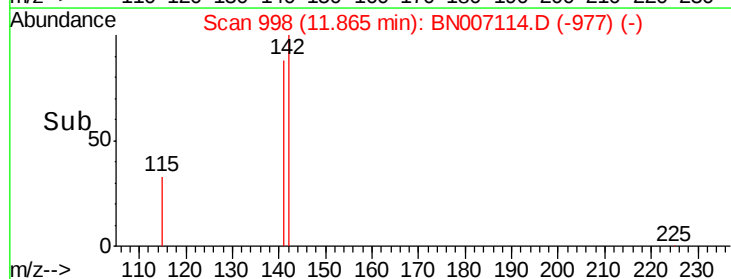
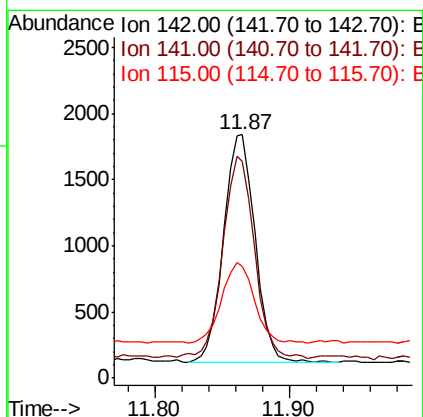
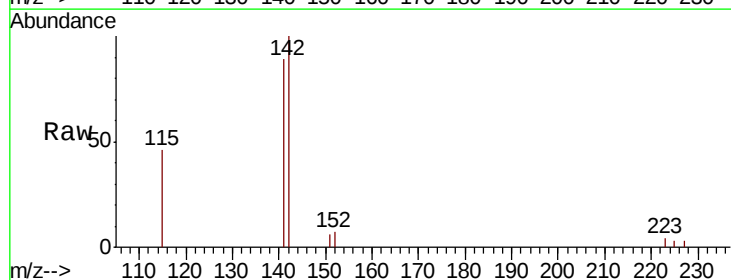
Instrument :
 BNA_N
 ClientSampleId :

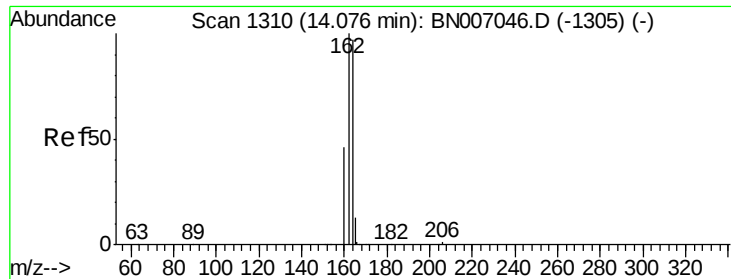
Tot Ion:152 Resp: 16945
 Ion Ratio Lower Upper
 152 100
 151 19.5 15.5 23.3



#11
 2-Methylnaphthalene
 Concen: 0.039 ng
 RT: 11.87 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: BN007114.D
 Acq: 13 Aug 2019 04:30

Tgt Ion:142 Resp: 2813
 Ion Ratio Lower Upper
 142 100
 141 89.2 69.0 103.6
 115 46.2 27.1 40.7#





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

Instrument :

BNA_N

ClientSampleId :

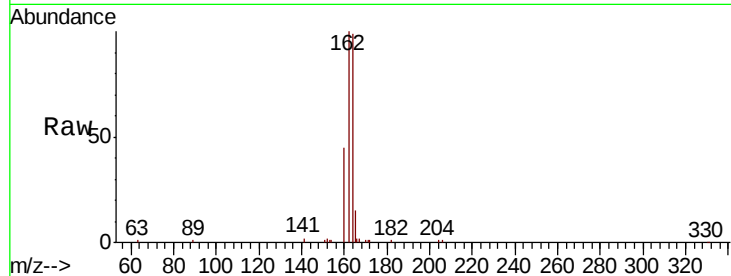
Tot Ion:164 Resp: 21241

Ion Ratio Lower Upper

164 100

162 101.0 82.2 123.4

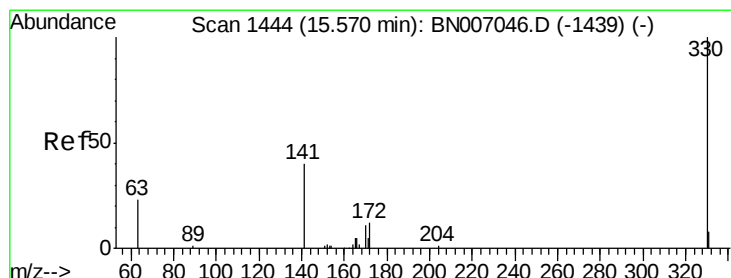
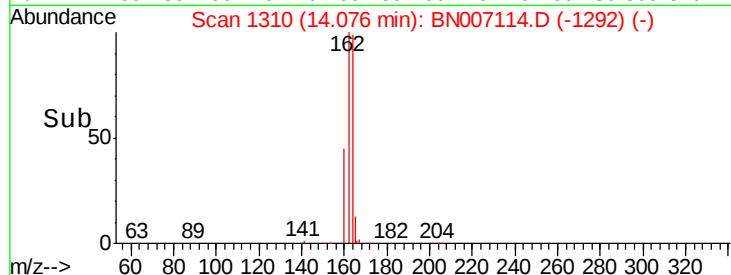
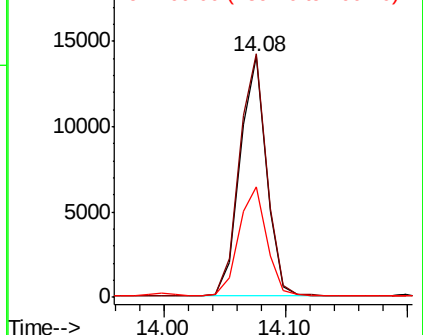
160 45.8 38.3 57.5



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: 0.241 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

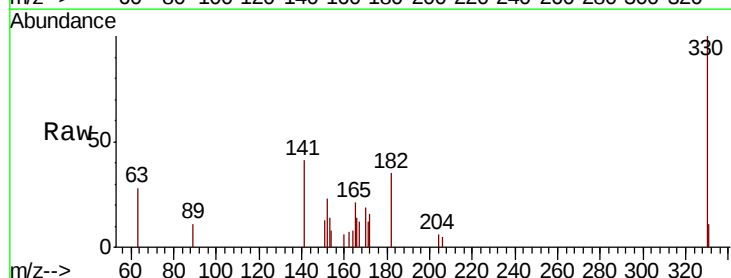
Tgt Ion:330 Resp: 2753

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

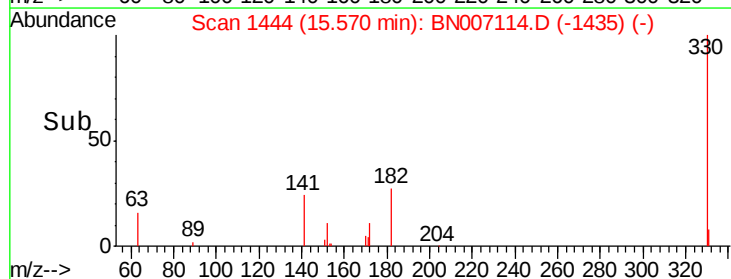
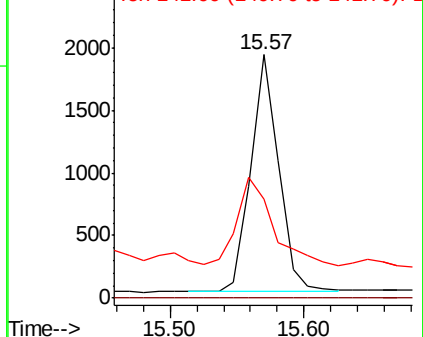
141 48.1 33.6 50.4

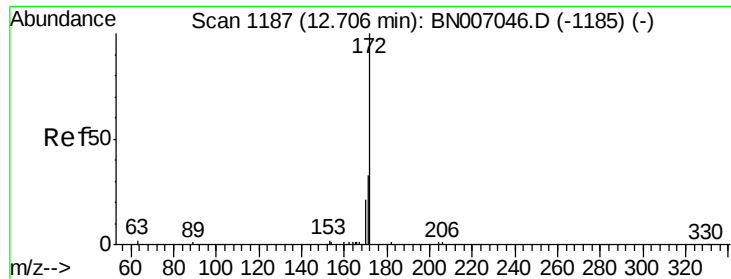


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

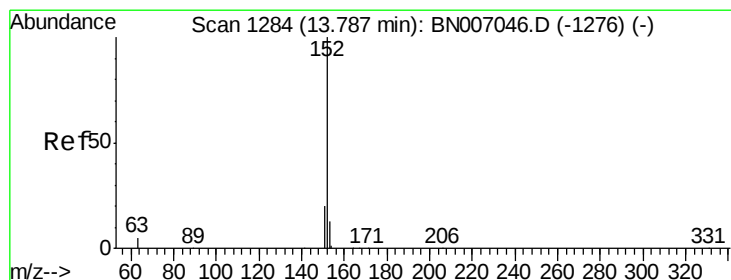
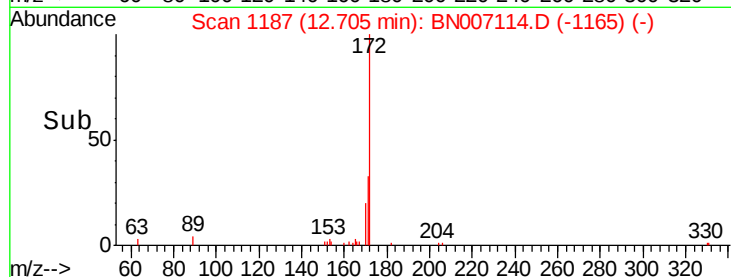
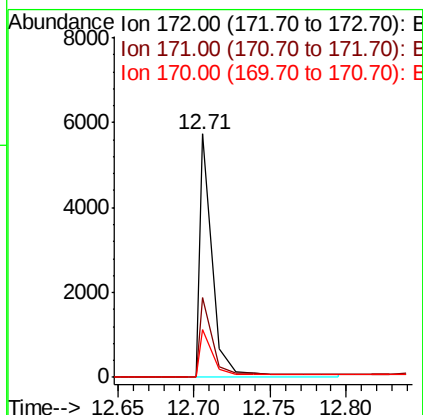
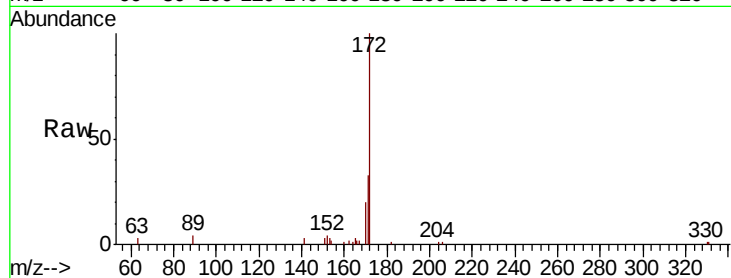




#14
2-Fluorobiphenyl
Concen: 0.134 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007114.D
Acq: 13 Aug 2019 04:30

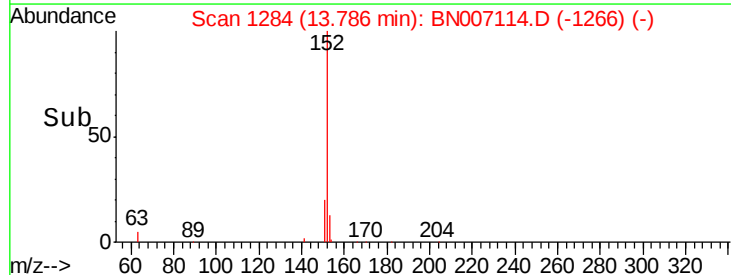
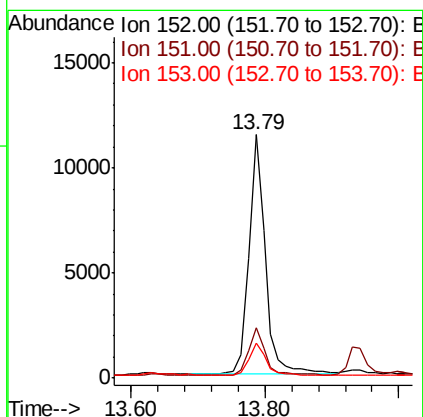
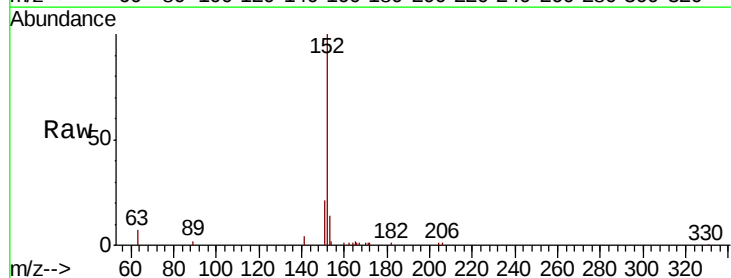
Instrument :
BNA_N
ClientSampleId :

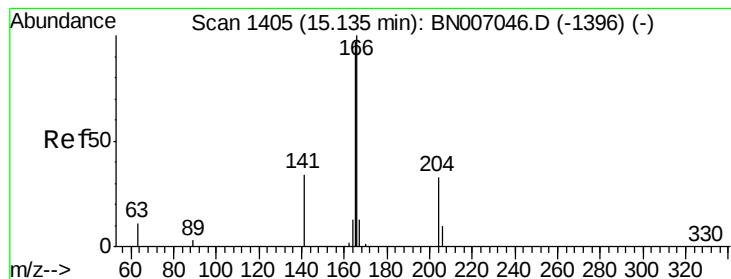
Tot Ion:172 Resp: 4128
Ion Ratio Lower Upper
172 100
171 32.6 26.3 39.5
170 19.8 17.0 25.4



#15
Acenaphthylene
Concen: 0.175 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007114.D
Acq: 13 Aug 2019 04:30

Tgt Ion:152 Resp: 19417
Ion Ratio Lower Upper
152 100
151 20.4 15.8 23.6
153 14.0 10.4 15.6





#17

Fluorene

Concen: 0.033 ng

RT: 15.14 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

Instrument :

BNA_N

ClientSampleId :

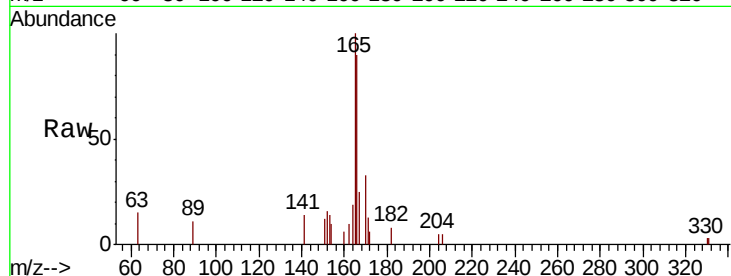
Tot Ion:166 Resp: 3480

Ion Ratio Lower Upper

166 100

165 118.9 77.9 116.9#

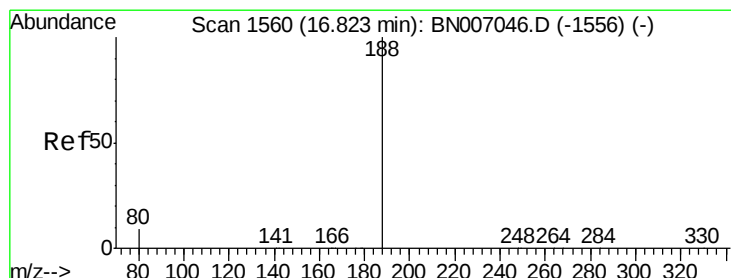
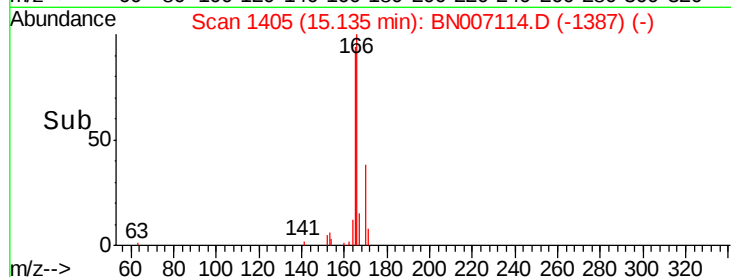
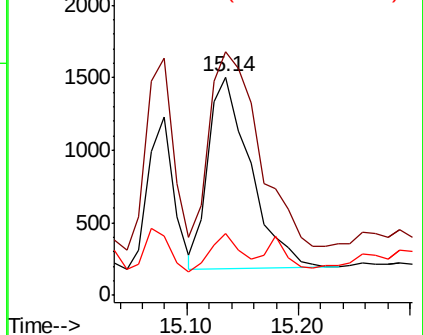
167 14.4 10.9 16.3



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: BN007114.D

Acq: 13 Aug 2019 04:30

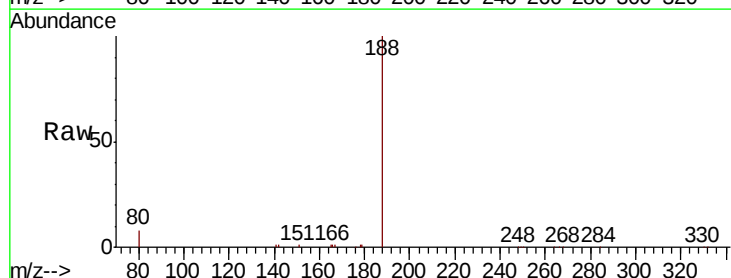
Tgt Ion:188 Resp: 51412

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

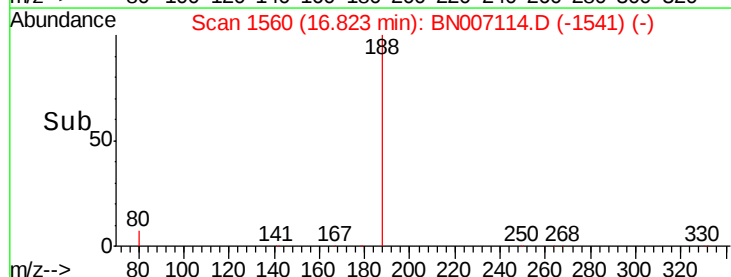
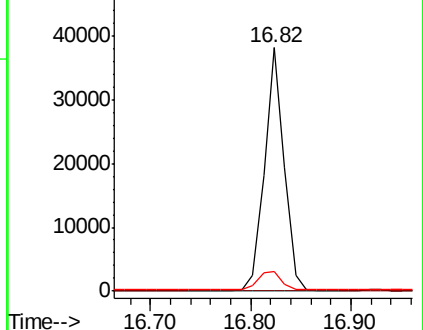
80 7.8 7.8 11.6

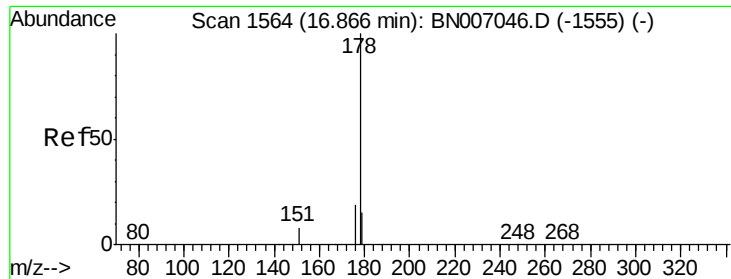


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC





#22

Phenanthrene

Concen: 0.429 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

Instrument :

BNA_N

ClientSampleId :

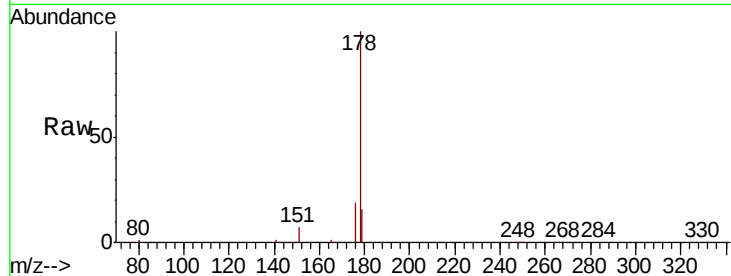
Tot Ion:178 Resp: 66079

Ion Ratio Lower Upper

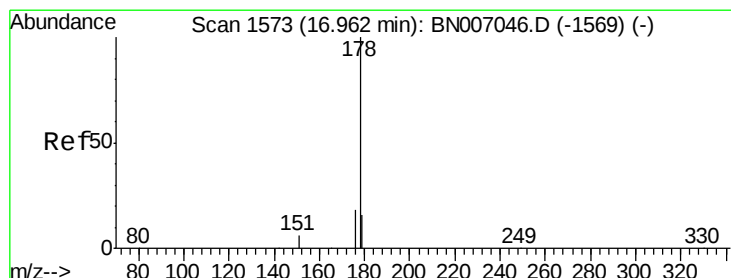
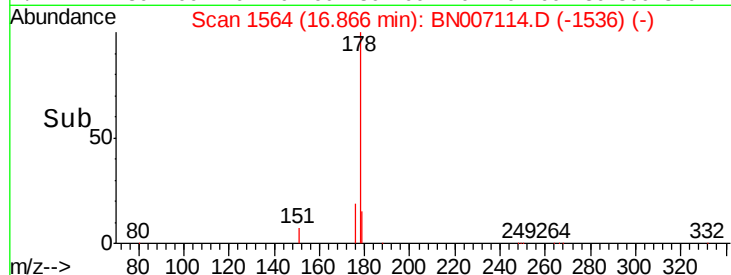
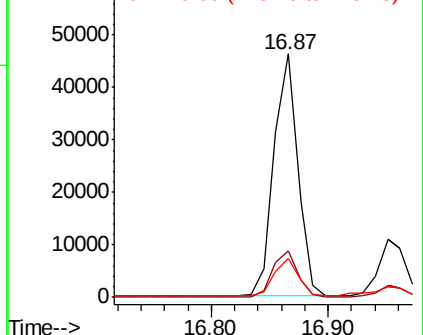
178 100

176 19.1 15.2 22.8

179 15.7 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: 0.118 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

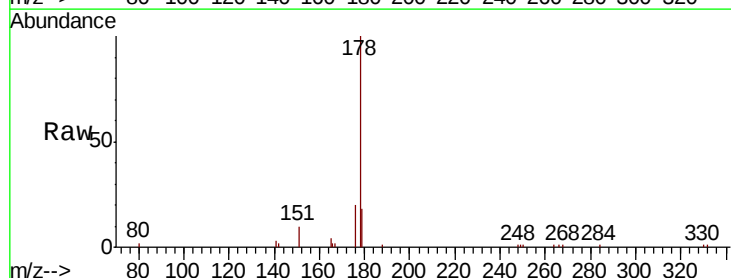
Tgt Ion:178 Resp: 16546

Ion Ratio Lower Upper

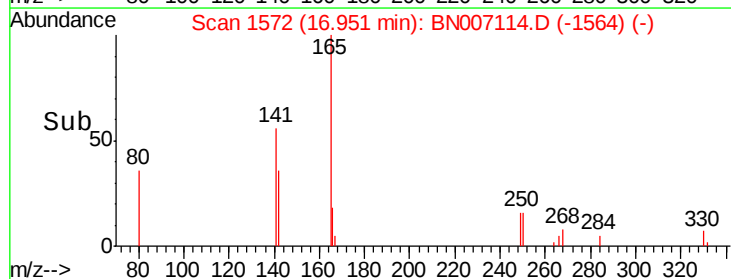
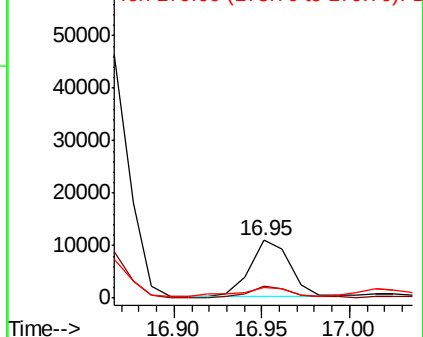
178 100

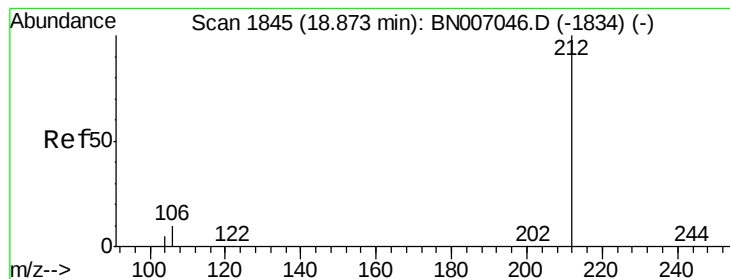
176 18.9 14.6 21.8

179 18.9 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: 0.240 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

Instrument :

BNA_N

ClientSampled :

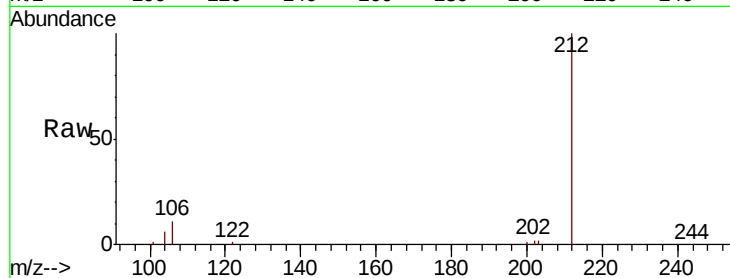
Tot Ion:212 Resp: 43805

Ion Ratio Lower Upper

212 100

106 10.5 8.2 12.2

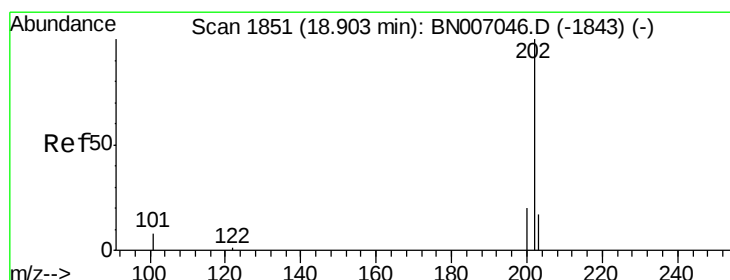
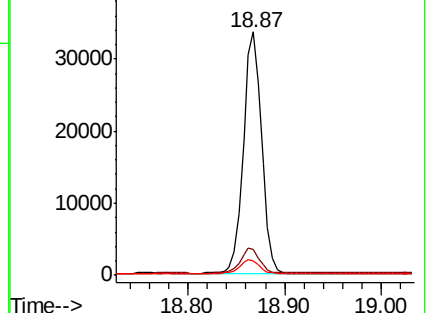
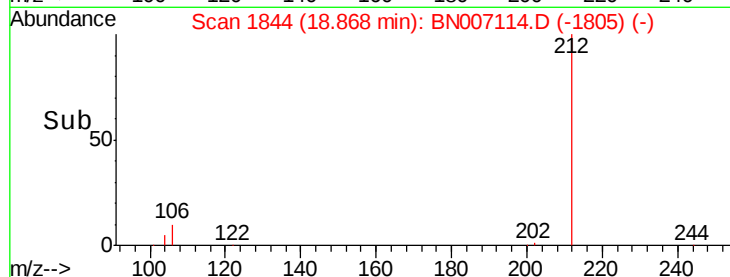
104 6.0 4.5 6.7



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: 0.838 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

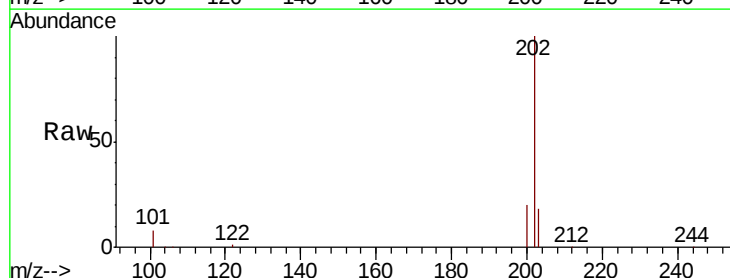
Tgt Ion:202 Resp: 165156

Ion Ratio Lower Upper

202 100

101 8.7 7.0 10.4

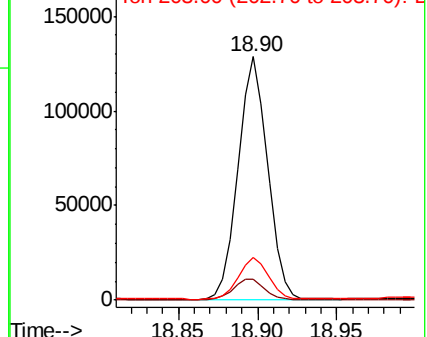
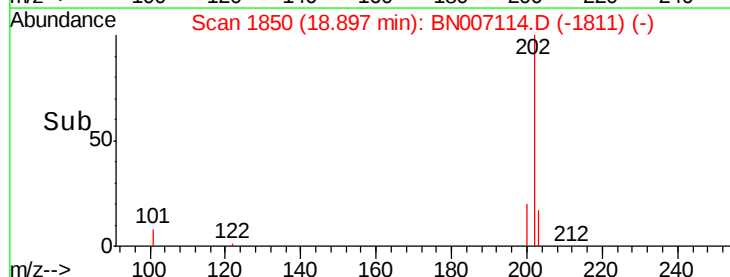
203 17.5 13.8 20.8

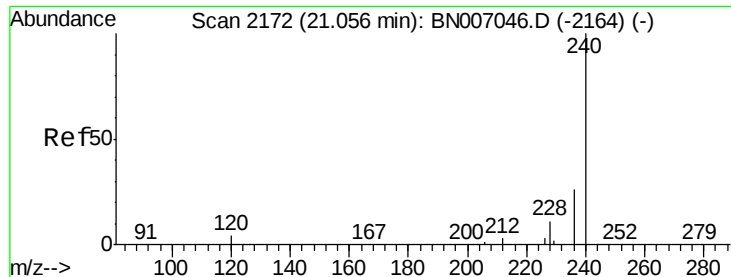


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

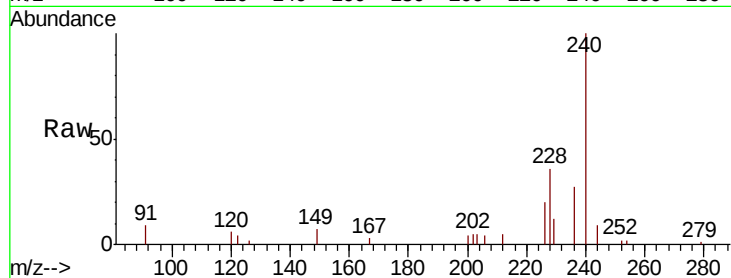




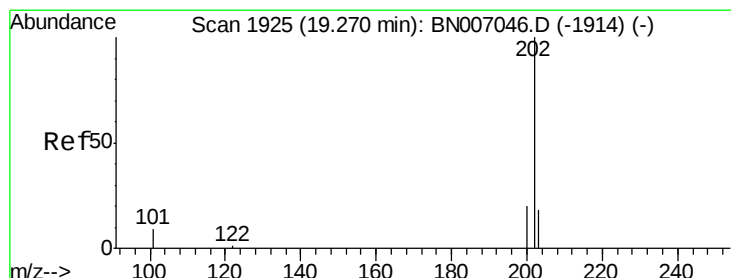
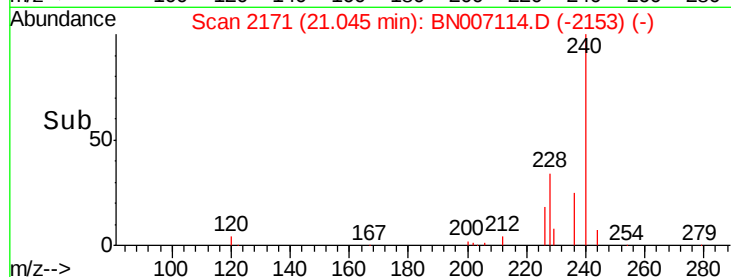
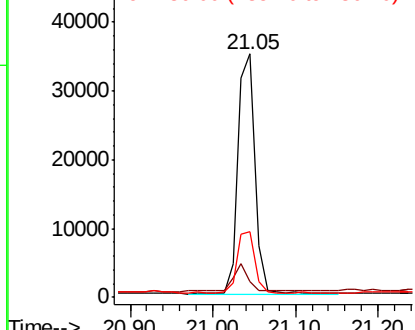
#26
Chrysene-d12
Concen: 0.400 ng
RT: 21.05 min Scan# 2171
Delta R.T. -0.01 min
Lab File: BN007114.D
Acq: 13 Aug 2019 04:30

Instrument :
BNA_N
ClientSampleId :

Tot Ion:240 Resp: 50869
Ion Ratio Lower Upper
240 100
120 6.5 4.0 6.0#
236 27.2 21.3 31.9

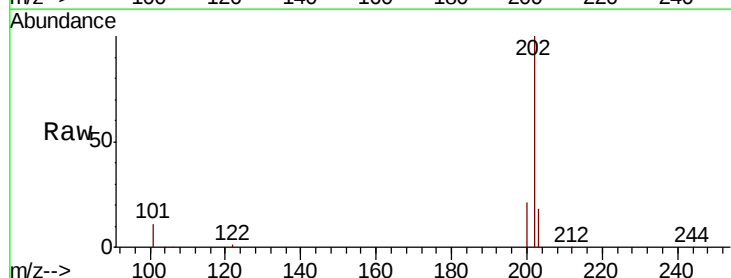


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

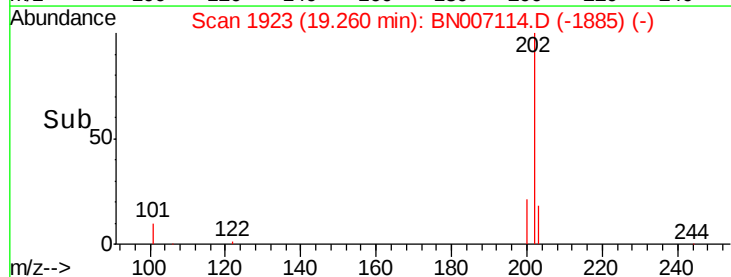
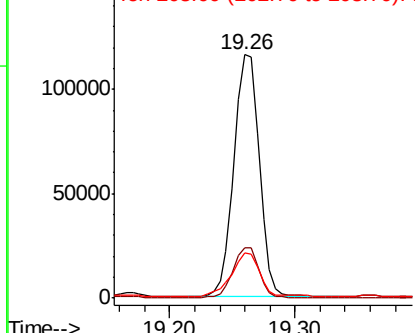


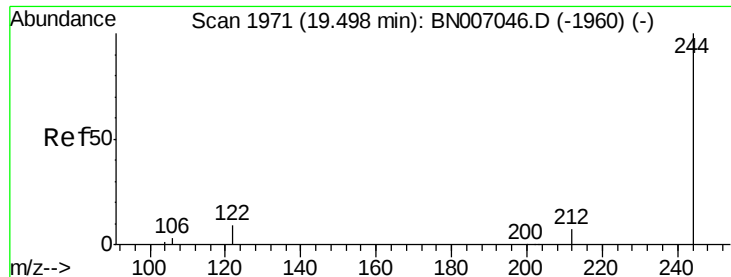
#27
Pyrene
Concen: 0.916 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007114.D
Acq: 13 Aug 2019 04:30

Tgt Ion:202 Resp: 163344
Ion Ratio Lower Upper
202 100
200 20.9 16.6 24.8
203 20.9 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: 0.248 ng

RT: 19.49 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

Instrument :

BNA_N

ClientSampleId :

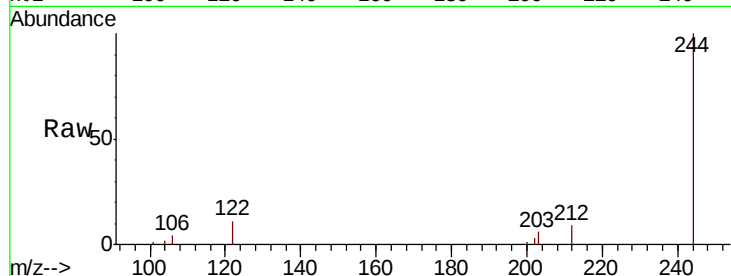
Tot Ion:244 Resp: 34367

Ion Ratio Lower Upper

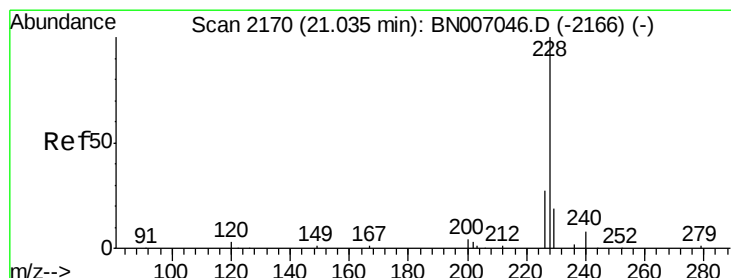
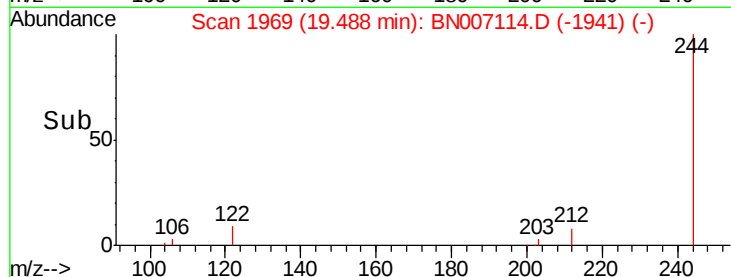
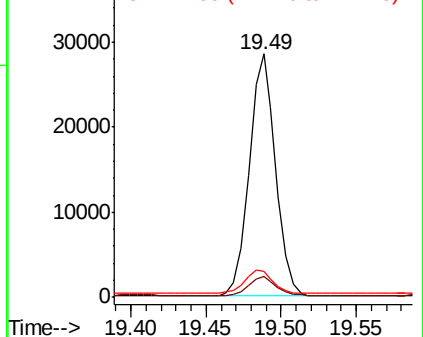
244 100

212 8.5 6.2 9.2

122 10.7 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: 0.577 ng

RT: 21.08 min Scan# 2174

Delta R.T. 0.04 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

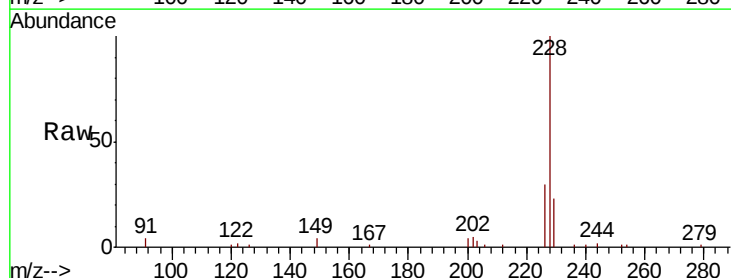
Tgt Ion:228 Resp: 107380

Ion Ratio Lower Upper

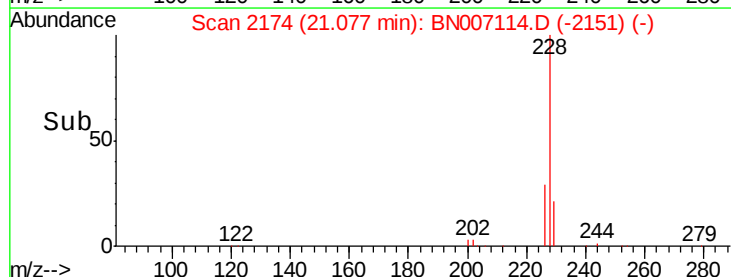
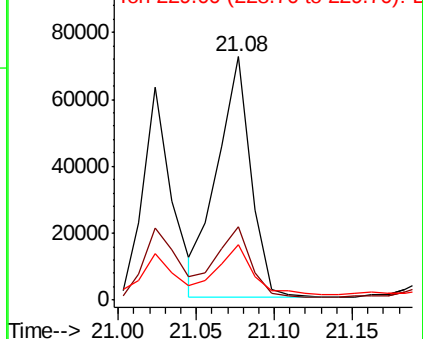
228 100

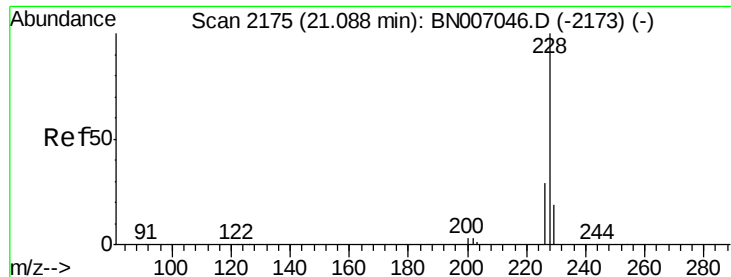
226 30.4 21.8 32.6

229 22.8 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: 0.592 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

Instrument :

BNA_N

ClientSampleId :

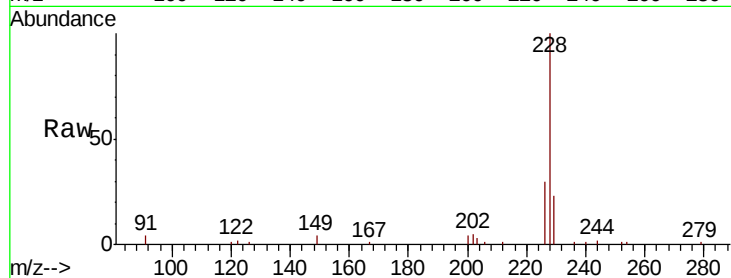
Tot Ion:228 Resp: 107035

Ion Ratio Lower Upper

228 100

226 30.4 23.8 35.6

229 22.8 15.7 23.5

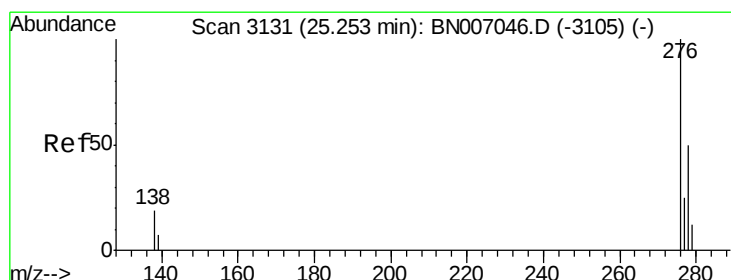
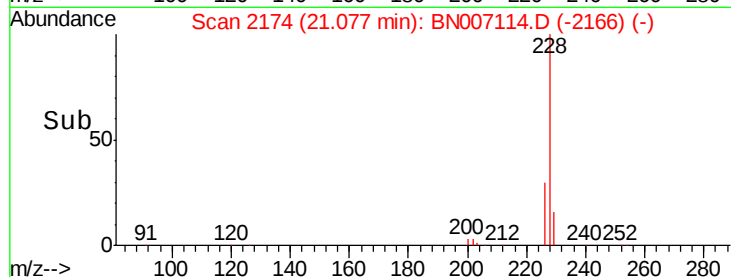
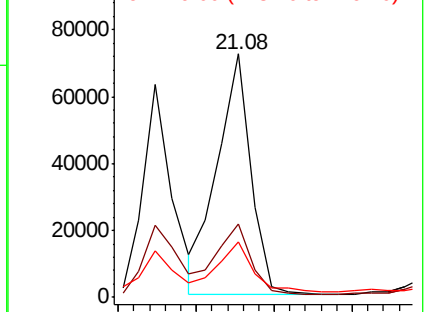


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

Indeno(1,2,3-cd)pyrene

Concen: 0.360 ng

RT: 25.23 min Scan# 3124

Delta R.T. -0.02 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

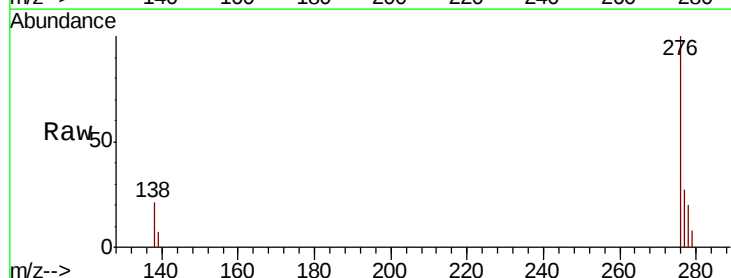
Tgt Ion:276 Resp: 71731

Ion Ratio Lower Upper

276 100

138 18.7 16.0 24.0

277 24.4 19.9 29.9

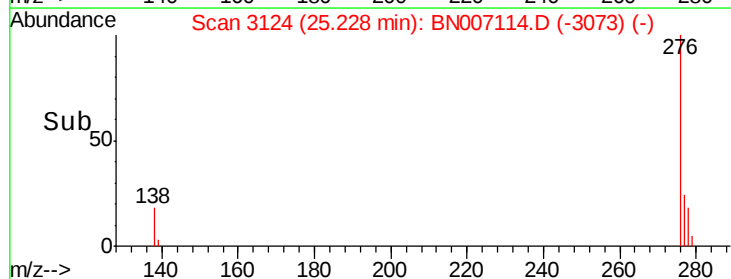
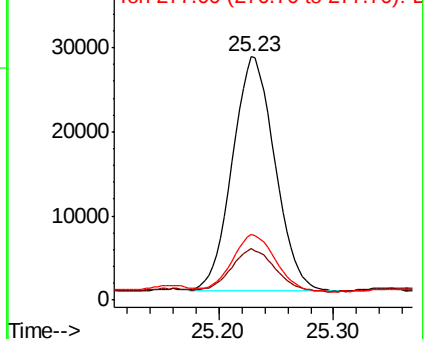


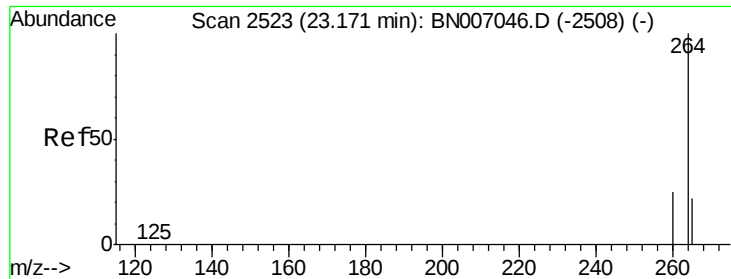
Abundance

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



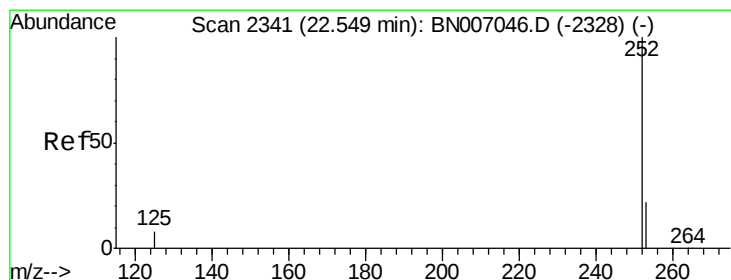
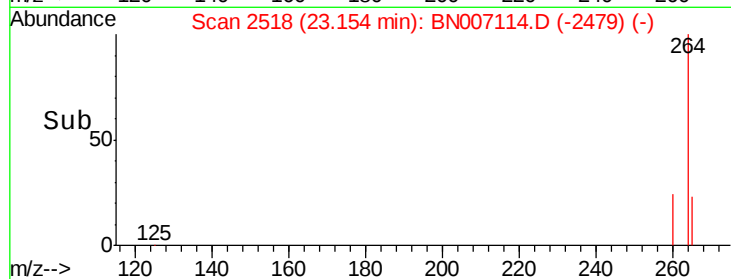
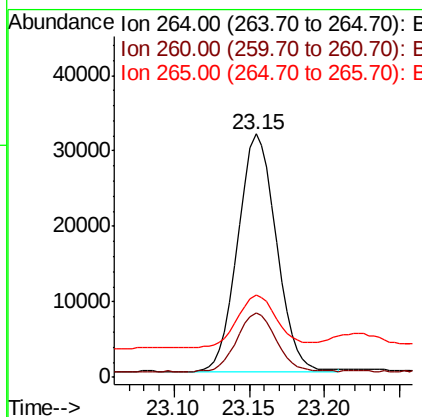
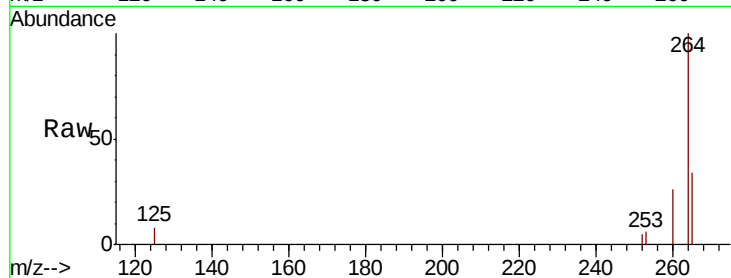


#32
Pervlene-d12
Concen: 0.400 ng
RT: 23.15 min Scan# 2518
Delta R.T. -0.02 min
Lab File: BN007114.D
Acq: 13 Aug 2019 04:30

Instrument :
BNA_N
ClientSampleId :

Tot Ion:264 Resp: 55087

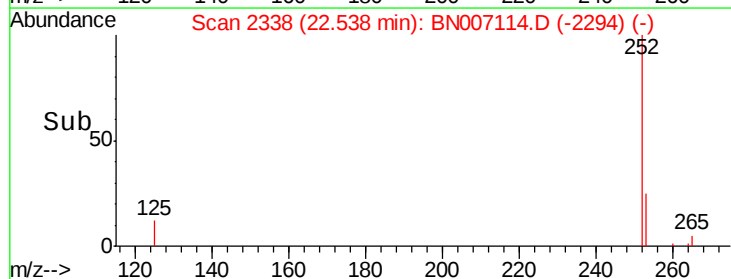
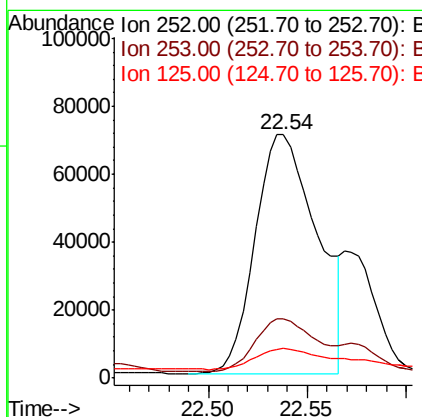
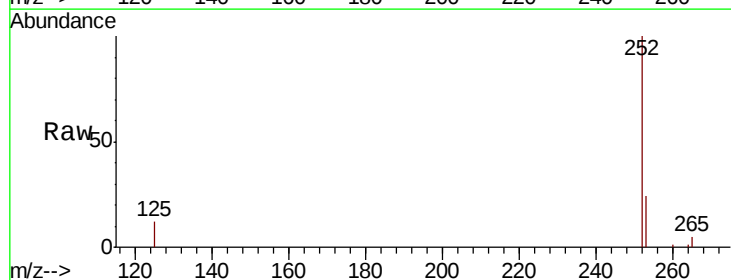
Ion	Ratio	Lower	Upper
264	100		
260	26.3	19.8	29.8
265	33.8	26.2	39.4

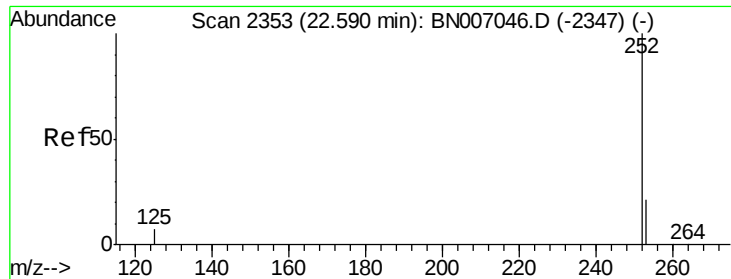


#33
Benzo(b)fluoranthene
Concen: 0.809 ng
RT: 22.54 min Scan# 2338
Delta R.T. -0.01 min
Lab File: BN007114.D
Acq: 13 Aug 2019 04:30

Tgt Ion:252 Resp: 152886

Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.2	27.2
125	12.1	7.4	11.0





#34

Benzo(k)fluoranthene

Concen: 0.820 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.05 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

Instrument :

BNA_N

ClientSampleId :

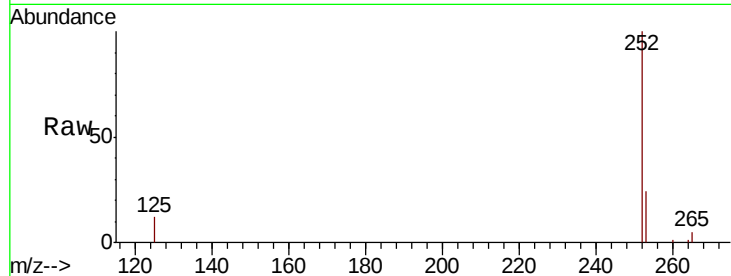
Tot Ion:252 Resp: 152886

Ion Ratio Lower Upper

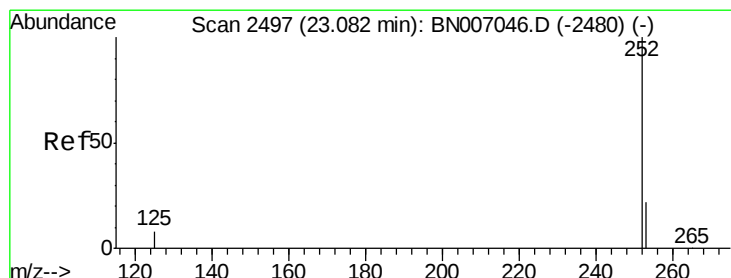
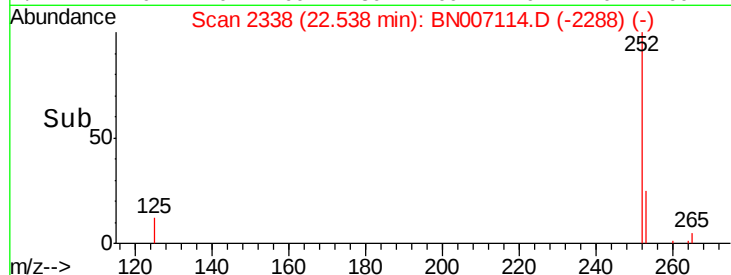
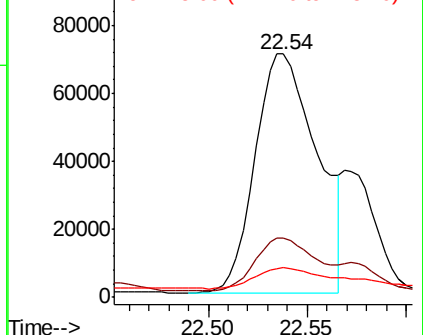
252 100

253 24.2 18.1 27.1

125 12.1 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: 0.521 ng

RT: 23.06 min Scan# 2491

Delta R.T. -0.02 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

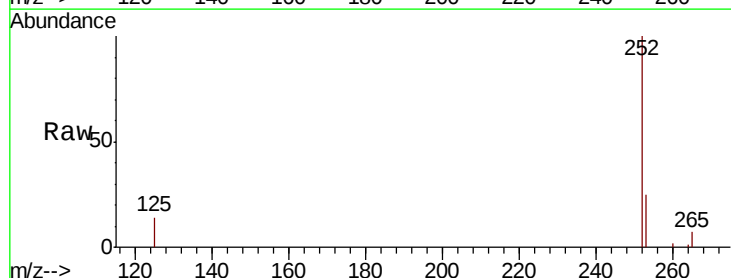
Tgt Ion:252 Resp: 89279

Ion Ratio Lower Upper

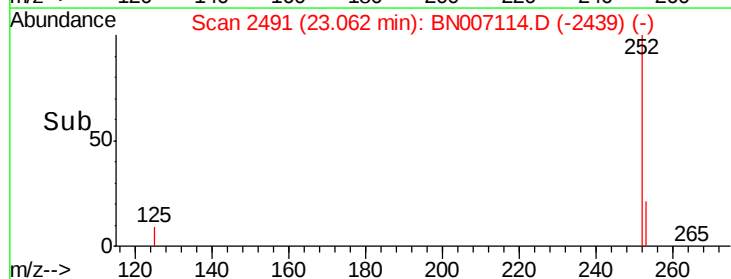
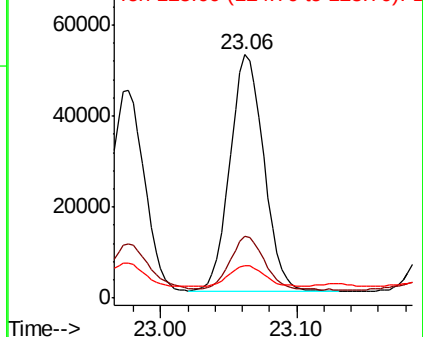
252 100

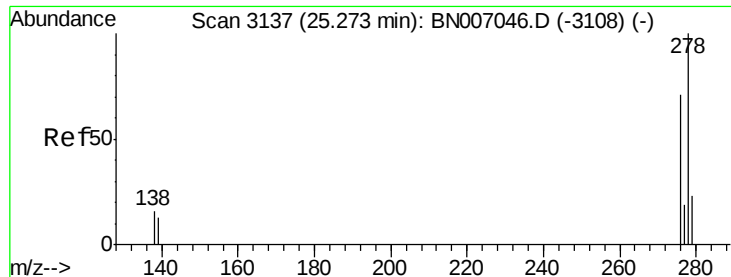
253 25.3 18.5 27.7

125 13.5 8.2 12.4#



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





#36

Dibenzo(a,h)anthracene

Concen: 0.107 ng

RT: 25.24 min Scan# 3128

Delta R.T. -0.03 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

Instrument :

BNA_N

ClientSampleId :

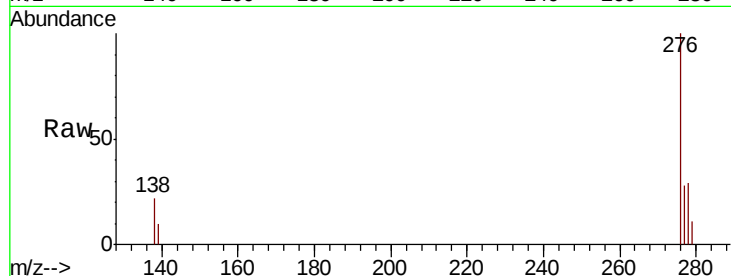
Tot Ion:278 Resp: 18248

Ion Ratio Lower Upper

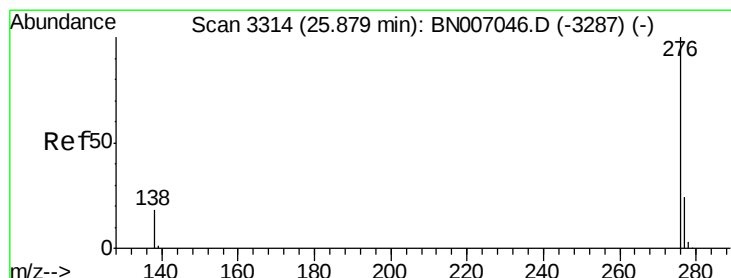
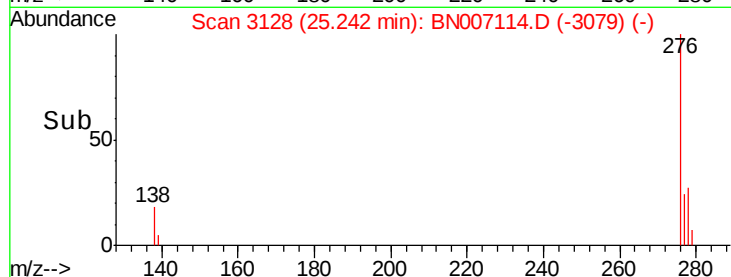
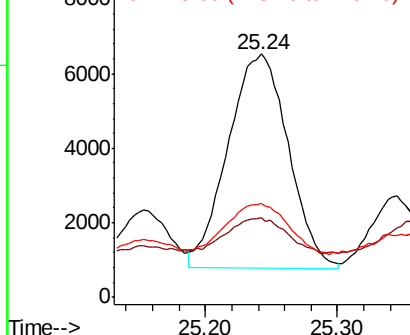
278 100

139 32.9 11.3 16.9#

279 38.6 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(g,h,i)perylene

Concen: 0.422 ng

RT: 25.86 min Scan# 3308

Delta R.T. -0.02 min

Lab File: BN007114.D

Acq: 13 Aug 2019 04:30

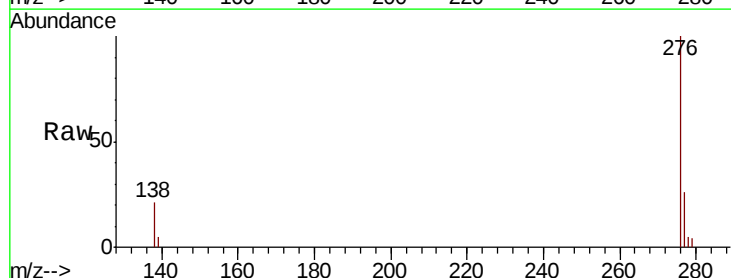
Tgt Ion:276 Resp: 74210

Ion Ratio Lower Upper

276 100

277 26.4 19.8 29.8

138 21.4 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

