

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081019\
 Data File : BN007055.D
 Acq On : 10 Aug 2019 19:22
 Operator : HP/JU
 Sample : K4144-03
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 11 04:37:02 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	7.44	152	8243	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	30997	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	17913	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	45797	0.40	ng	0.00
26) Chrysene-d12	21.05	240	49023	0.40	ng	-0.01
32) Perylene-d12	23.16	264	54674	0.40	ng	0.00

System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	4706	0.24	ng	0.00
4) Phenol-d6	6.61	99	6302	0.26	ng	0.00
7) Nitrobenzene-d5	8.56	82	4855	0.19	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	11915	0.21	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1542	0.16	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	5122	0.20	ng	0.00
24) Fluoranthene-d10	18.87	212	31492	0.19	ng	0.00
28) Terphenyl-d14	19.49	244	25164	0.19	ng	0.00

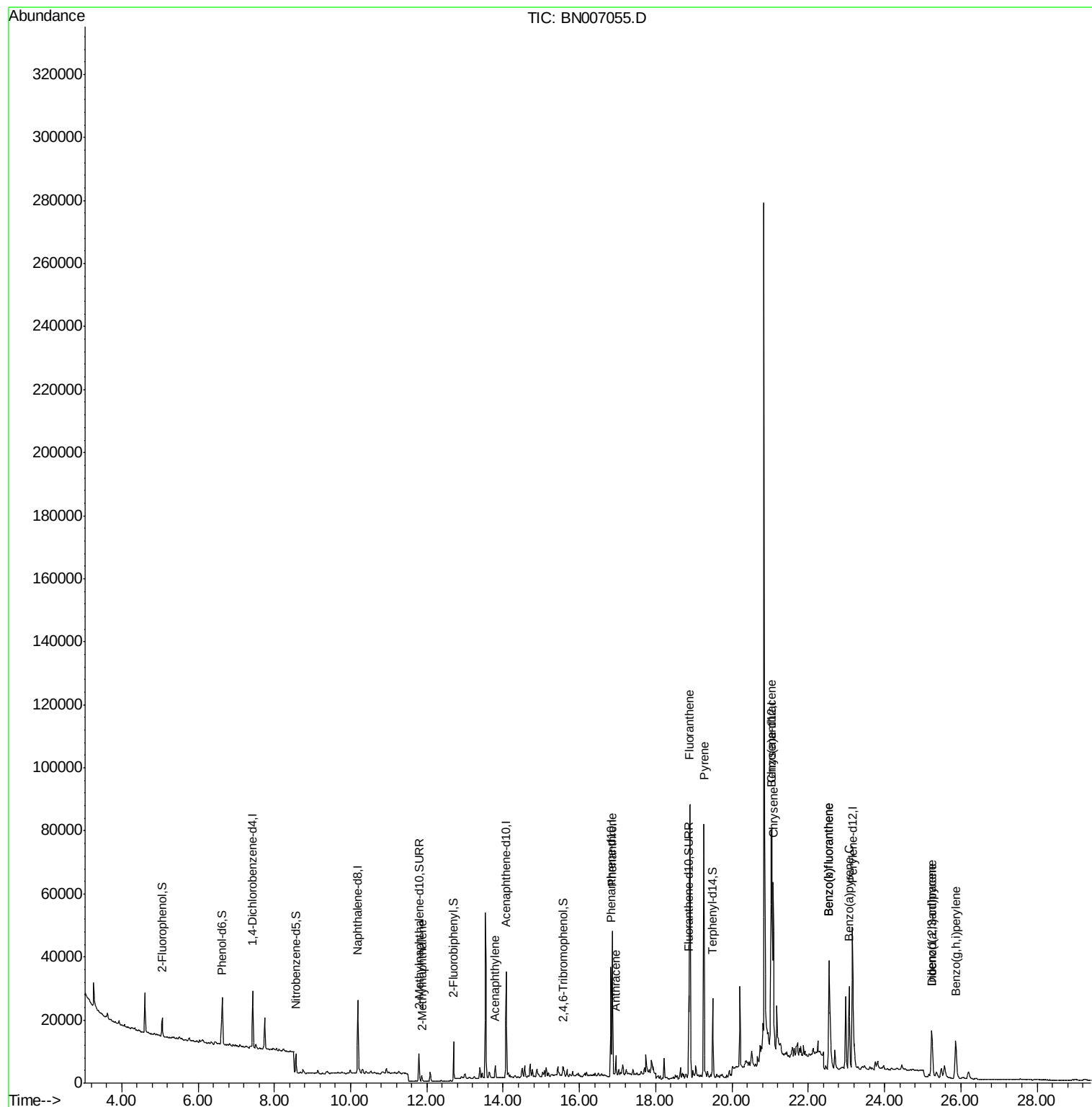
Target Compounds				Qvalue		
11) 2-Methylnaphthalene	11.87	142	1299	0.021	ng	# 90
15) Acenaphthylene	13.79	152	4712	0.050	ng	# 94
22) Phenanthrene	16.87	178	44521	0.324	ng	99
23) Anthracene	16.96	178	6762	0.054	ng	98
25) Fluoranthene	18.90	202	81527	0.464	ng	99
27) Pyrene	19.26	202	74819	0.435	ng	98
29) Benzo(a)anthracene	21.03	228	41746	0.233	ng	# 88
30) Chrysene	21.08	228	49287	0.283	ng	# 95
31) Indeno(1,2,3-cd)pyrene	25.24	276	24340	0.127	ng	97
33) Benzo(b)fluoranthene	22.55	252	58904	0.314	ng	97
34) Benzo(k)fluoranthene	22.55	252	58904	0.318	ng	97
35) Benzo(a)pyrene	23.07	252	35752	0.210	ng	97
36) Dibenzo(a,h)anthracene	25.25	278	7384	0.044	ng	# 72
37) Benzo(g,h,i)perylene	25.87	276	25210	0.145	ng	97

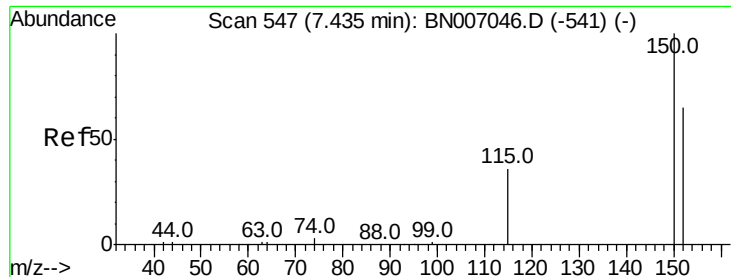
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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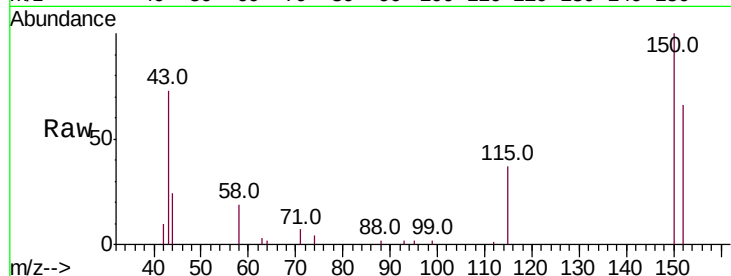


#1

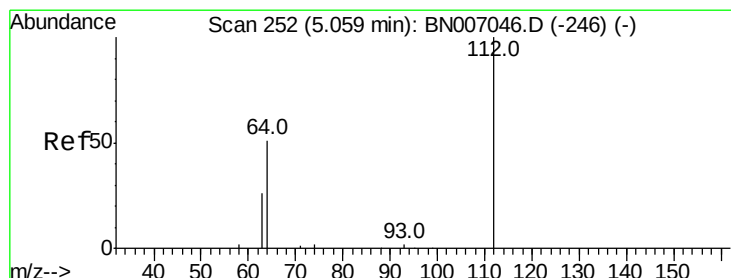
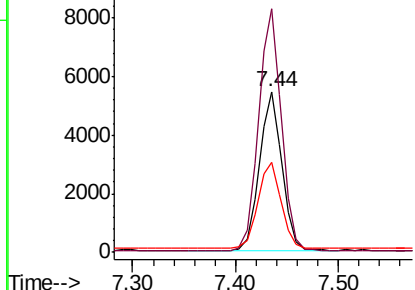
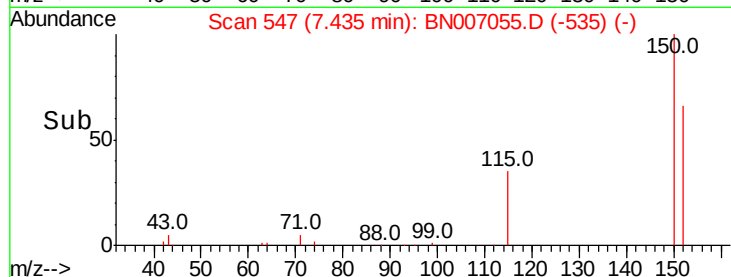
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.44 min Scan# 547
Delta R.T. 0.00 min
Lab File: BN007055.D
Acq: 10 Aug 2019 19:22

Instrument :
BNA_N
ClientSampled :

Tot Ion:152 Resp: 8243
Ion Ratio Lower Upper
152 100
150 151.4 121.7 182.5
115 55.6 46.2 69.4



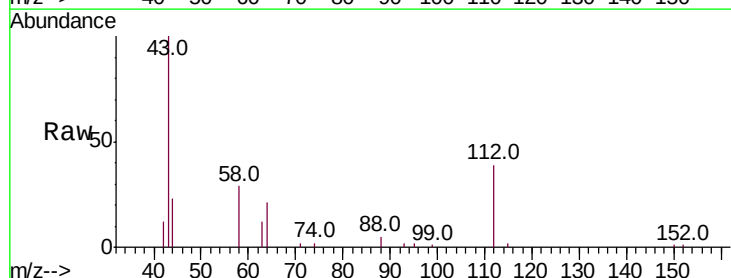
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



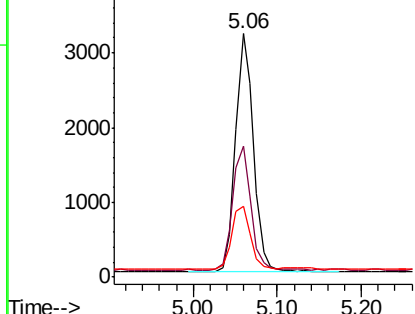
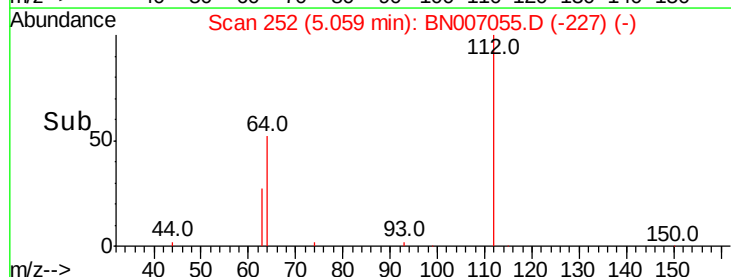
#3

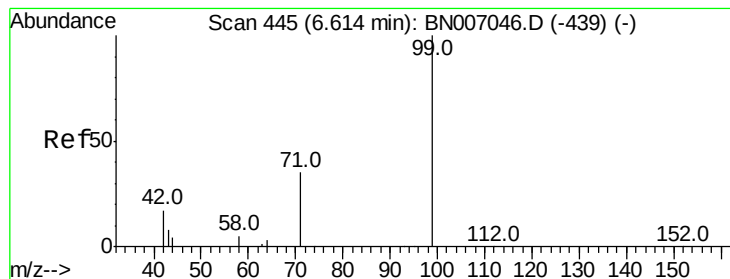
2-Fluorophenol
Concen: 0.238 ng
RT: 5.06 min Scan# 252
Delta R.T. 0.00 min
Lab File: BN007055.D
Acq: 10 Aug 2019 19:22

Tgt Ion:112 Resp: 4706
Ion Ratio Lower Upper
112 100
64 52.5 42.6 63.8
63 27.5 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: 0.257 ng

RT: 6.61 min Scan# 445

Delta R.T. 0.00 min

Lab File: BN007055.D

Acq: 10 Aug 2019 19:22

Instrument :

BNA_N

ClientSampleId :

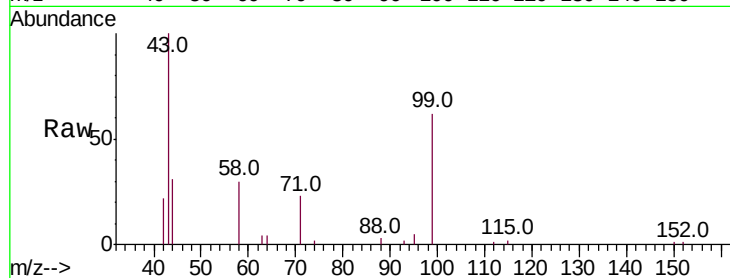
Tot Ion: 99 Resp: 6302

Ion Ratio Lower Upper

99 100

42 36.3 15.8 23.6#

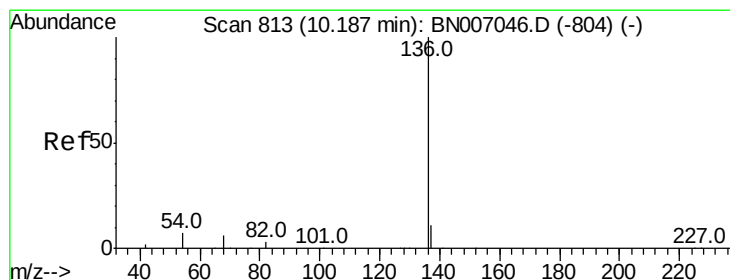
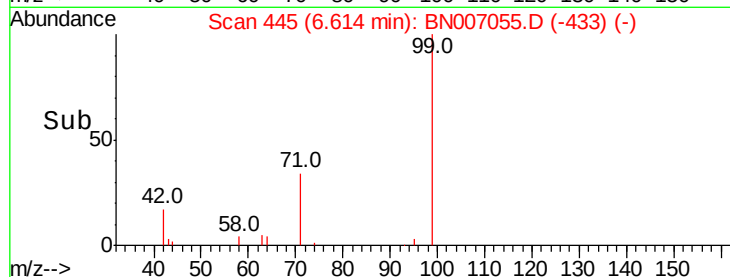
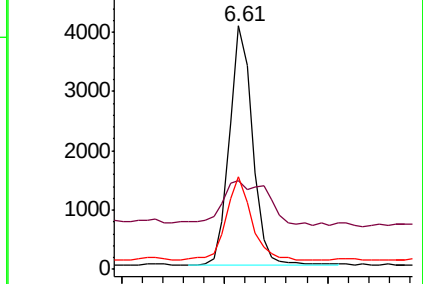
71 39.1 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007046.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007046.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007046.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. 0.00 min

Lab File: BN007055.D

Acq: 10 Aug 2019 19:22

Tgt Ion: 136 Resp: 30997

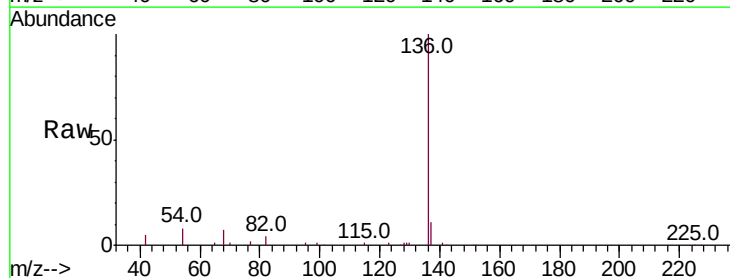
Ion Ratio Lower Upper

136 100

137 11.2 9.4 14.0

54 7.5 6.6 9.8

68 6.8 6.0 9.0

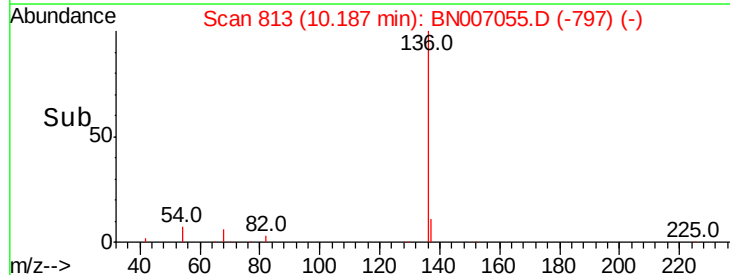
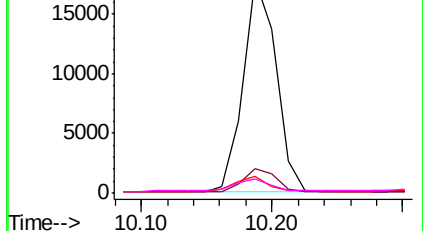


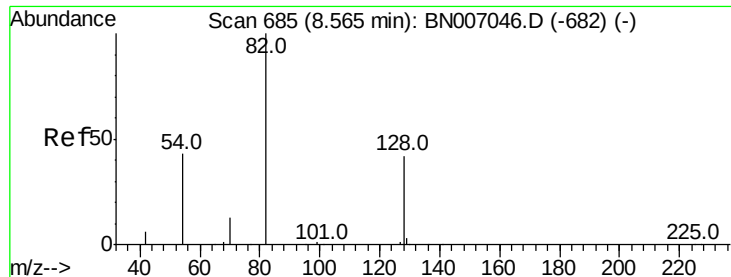
Abundance Ion 136.00 (135.70 to 136.70): BN007046.D (-804) (-)

Ion 137.00 (136.70 to 137.70): BN007046.D (-804) (-)

Ion 54.00 (53.70 to 54.70): BN007046.D (-804) (-)

Ion 68.00 (67.70 to 68.70): BN007046.D (-804) (-)





#7

Nitrobenzene-d5

Concen: 0.194 ng

RT: 8.56 min Scan# 685

Delta R.T. 0.00 min

Lab File: BN007055.D

Acq: 10 Aug 2019 19:22

Instrument :

BNA_N

ClientSampleId :

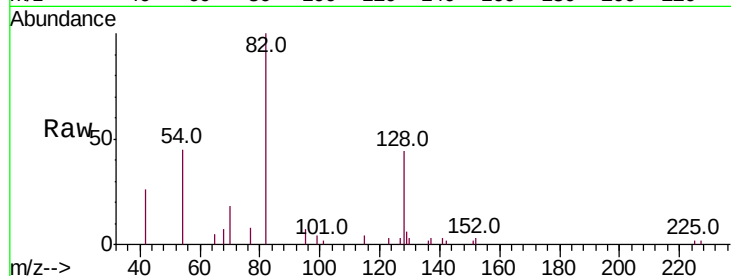
Tot Ion: 82 Resp: 4855

Ion Ratio Lower Upper

82 100

128 44.4 34.6 51.8

54 44.9 36.2 54.4



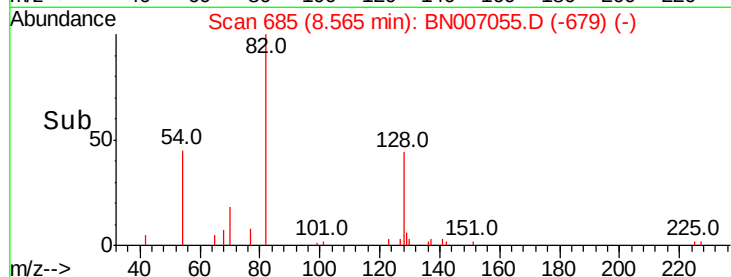
Abundance Ion 82.00 (81.70 to 82.70): BN007046.D (-682) (-)

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

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

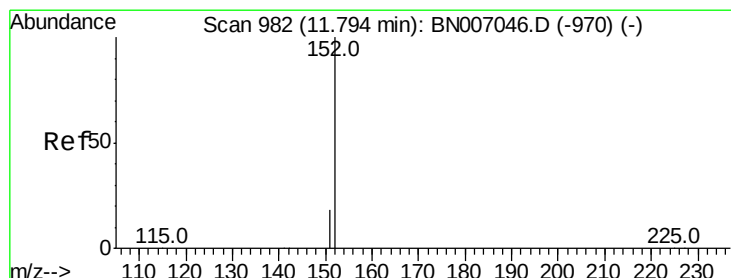
8.56

Time-->



8.56

Time-->



#10

2-Methylnaphthalene-d10

Concen: 0.206 ng

RT: 11.79 min Scan# 982

Delta R.T. 0.00 min

Lab File: BN007055.D

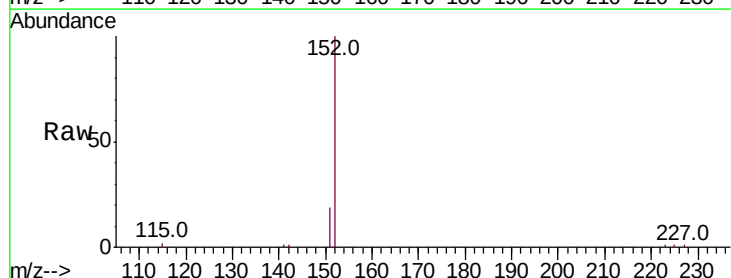
Acq: 10 Aug 2019 19:22

Tgt Ion: 152 Resp: 11915

Ion Ratio Lower Upper

152 100

151 19.4 15.5 23.3

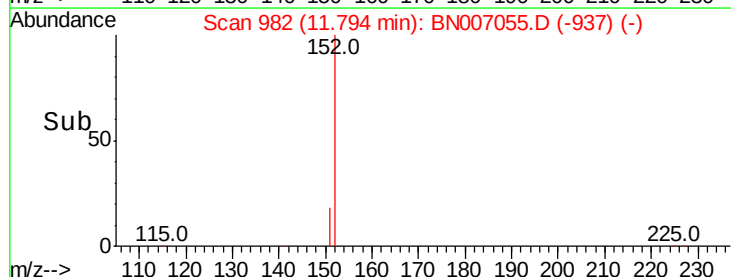


Abundance Ion 152.00 (151.70 to 152.70): BN007046.D (-970) (-)

Ion 151.00 (150.70 to 151.70): BN007046.D (-970) (-)

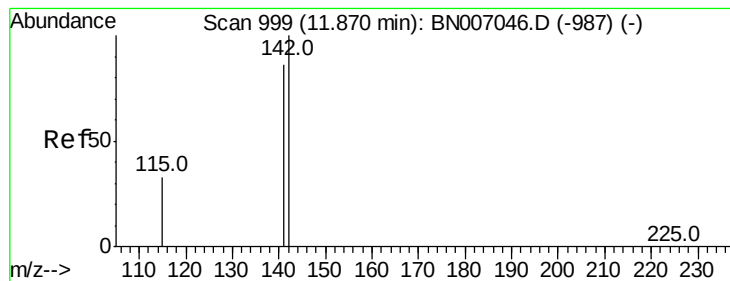
11.79

Time-->



11.79

Time-->



#11

2-Methylnaphthalene

Concen: 0.021 ng

RT: 11.87 min Scan# 998

Delta R.T. -0.00 min

Lab File: BN007055.D

Acq: 10 Aug 2019 19:22

Instrument :

BNA_N

ClientSampled :

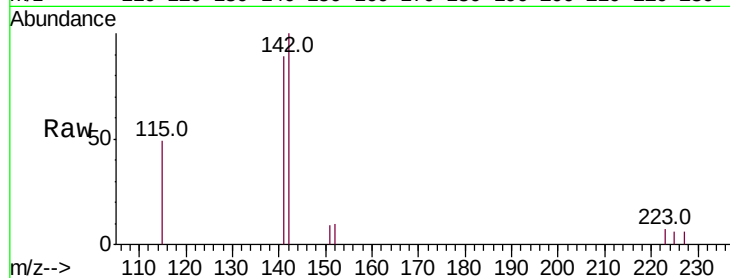
Tot Ion:142 Resp: 1299

Ion Ratio Lower Upper

142 100

141 89.1 69.0 103.6

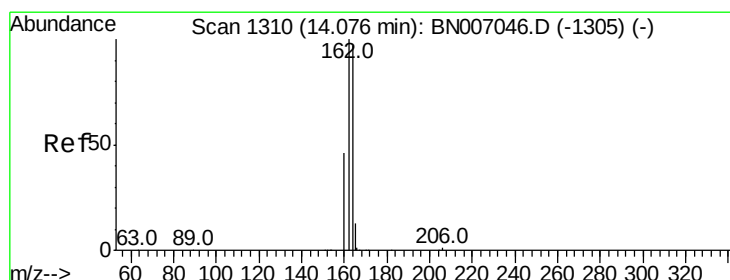
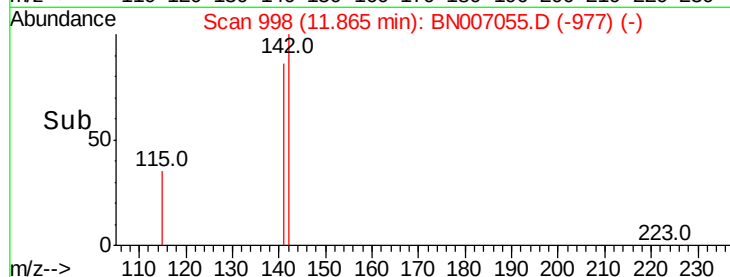
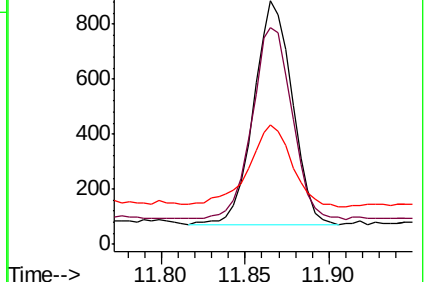
115 49.2 27.1 40.7#



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: BN007055.D

Acq: 10 Aug 2019 19:22

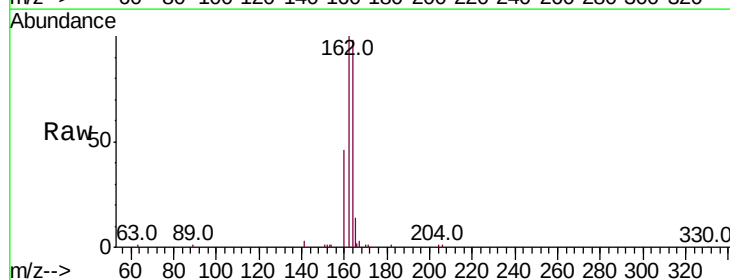
Tgt Ion:164 Resp: 17913

Ion Ratio Lower Upper

164 100

162 102.6 82.2 123.4

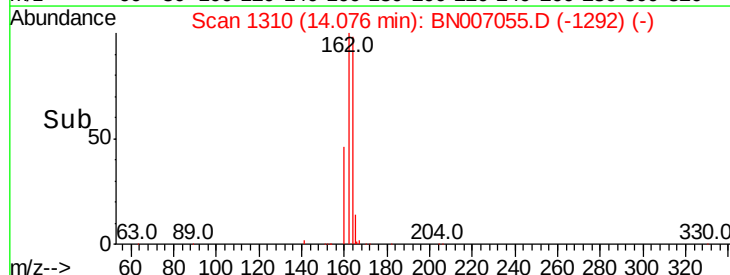
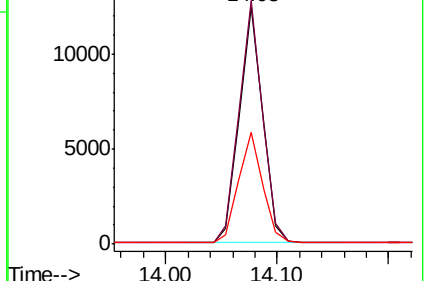
160 47.3 38.3 57.5

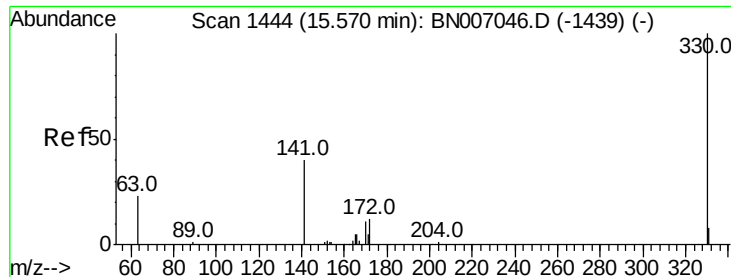


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

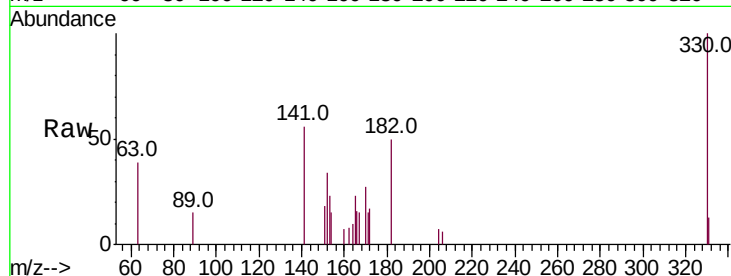




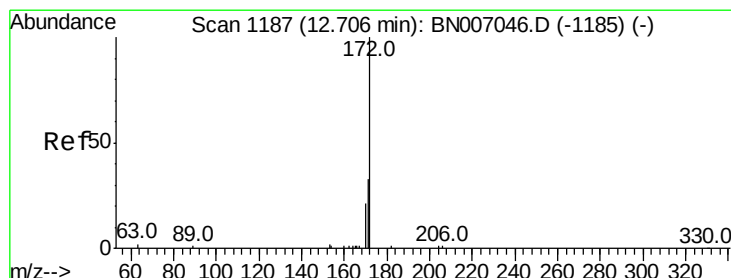
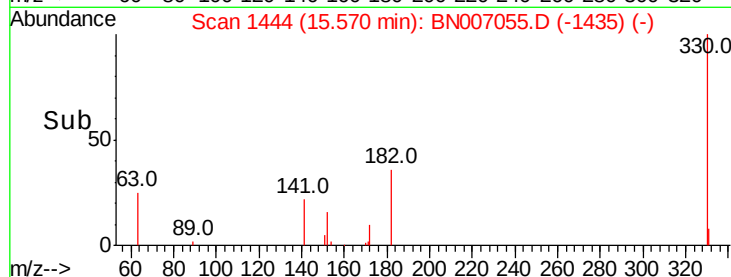
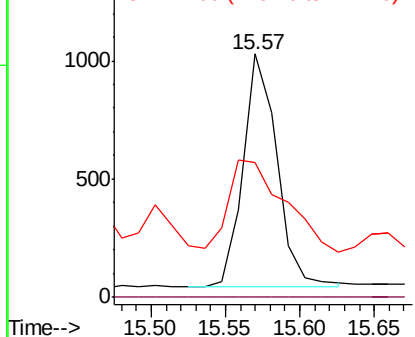
#13
 2,4,6-Tribromophenol
 Concen: 0.160 ng
 RT: 15.57 min Scan# 1444
 Delta R.T. 0.00 min
 Lab File: BN007055.D
 Acq: 10 Aug 2019 19:22

Instrument :
 BNA_N
 ClientSampled :

Tot Ion:330 Resp: 1542
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 66.3 33.6 50.4#

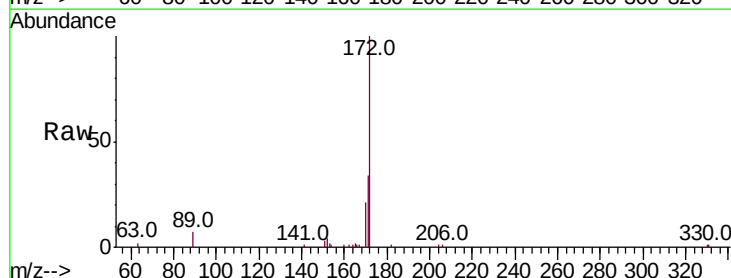


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

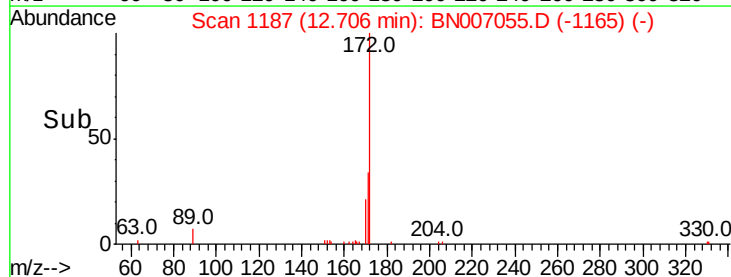
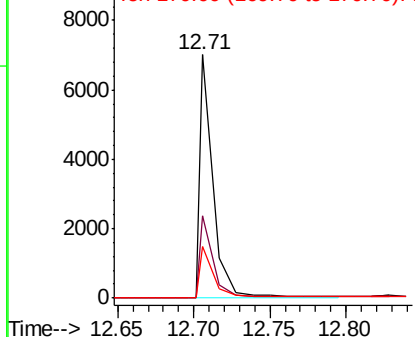


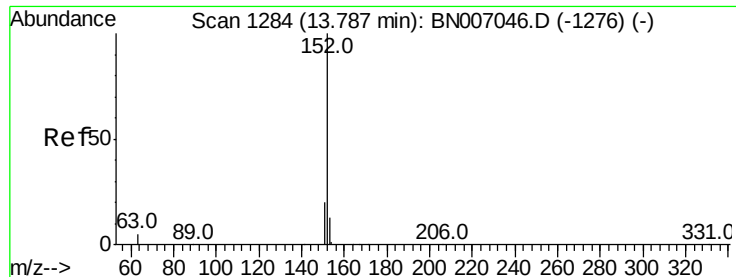
#14
 2-Fluorobiphenyl
 Concen: 0.197 ng
 RT: 12.71 min Scan# 1187
 Delta R.T. 0.00 min
 Lab File: BN007055.D
 Acq: 10 Aug 2019 19:22

Tgt Ion:172 Resp: 5122
 Ion Ratio Lower Upper
 172 100
 171 33.9 26.3 39.5
 170 21.1 17.0 25.4



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#15

Acenaphthylene

Concen: 0.050 ng

RT: 13.79 min Scan# 1284

Delta R.T. 0.00 min

Lab File: BN007055.D

Acq: 10 Aug 2019 19:22

Instrument :

BNA_N

ClientSampleId :

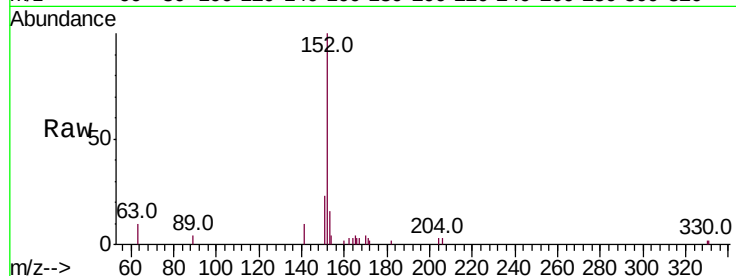
Tot Ion:152 Resp: 4712

Ion Ratio Lower Upper

152 100

151 22.1 15.8 23.6

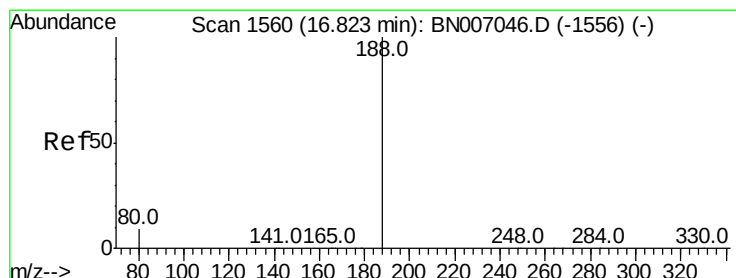
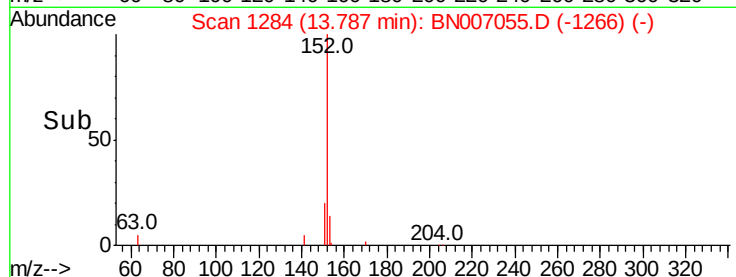
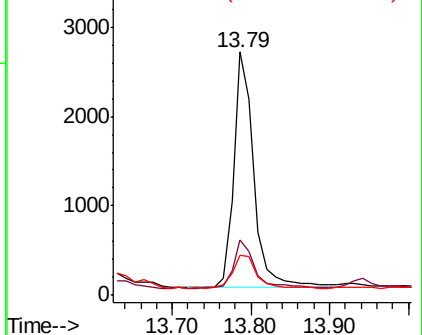
153 16.3 10.4 15.6#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. 0.00 min

Lab File: BN007055.D

Acq: 10 Aug 2019 19:22

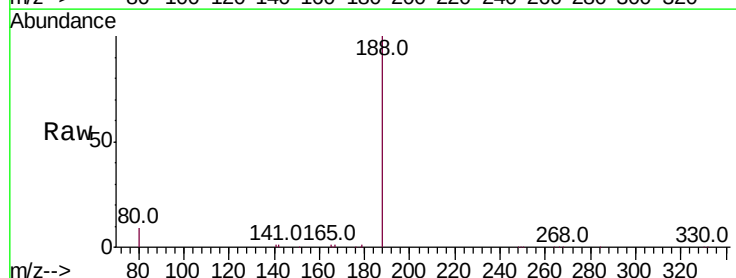
Tgt Ion:188 Resp: 45797

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

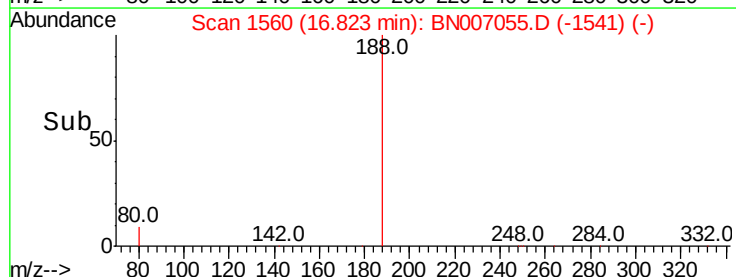
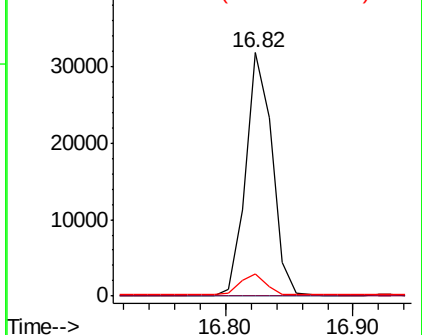
80 9.2 7.8 11.6

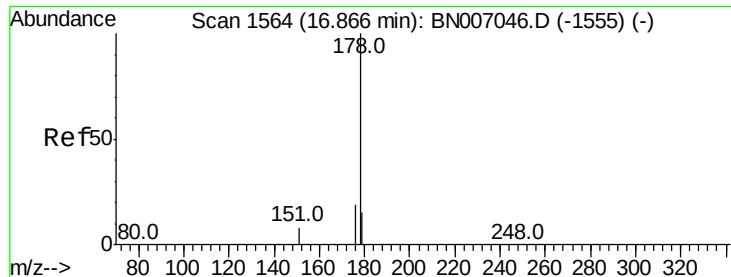


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC





#22

Phenanthrene

Concen: 0.324 ng

RT: 16.87 min Scan# 1564

Delta R.T. 0.00 min

Lab File: BN007055.D

Acq: 10 Aug 2019 19:22

Instrument :

BNA_N

ClientSampleId :

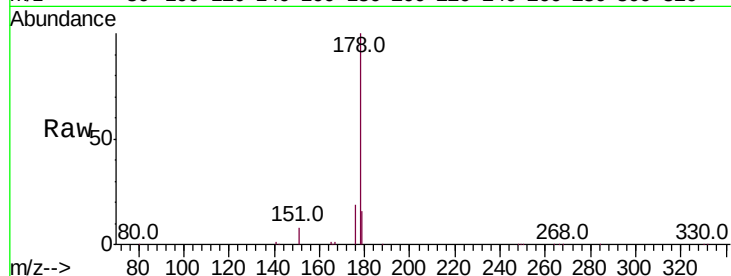
Tot Ion:178 Resp: 44521

Ion Ratio Lower Upper

178 100

176 19.1 15.2 22.8

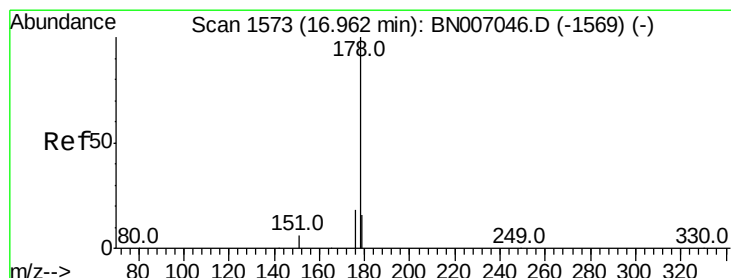
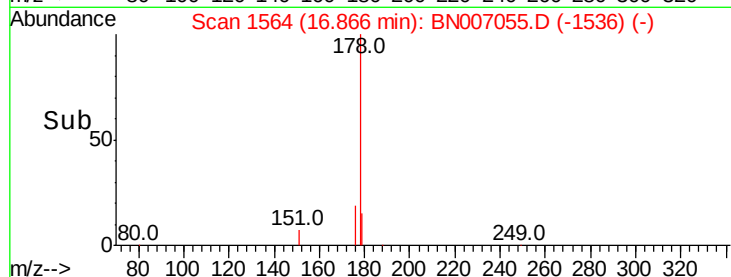
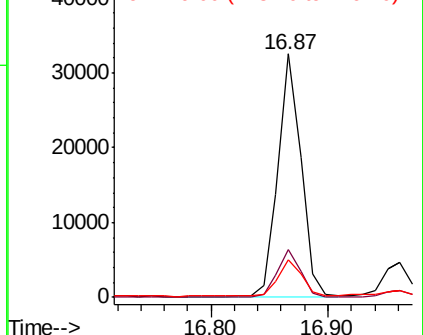
179 16.1 12.3 18.5



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: 0.054 ng

RT: 16.96 min Scan# 1573

Delta R.T. 0.00 min

Lab File: BN007055.D

Acq: 10 Aug 2019 19:22

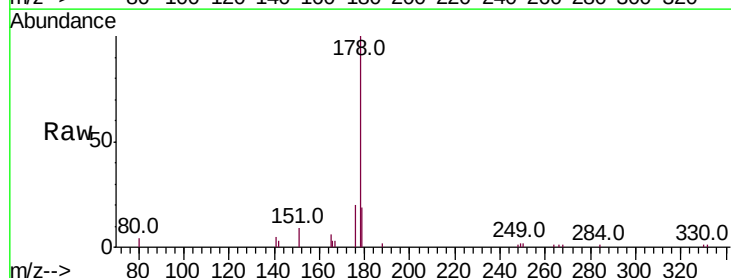
Tgt Ion:178 Resp: 6762

Ion Ratio Lower Upper

178 100

176 18.7 14.6 21.8

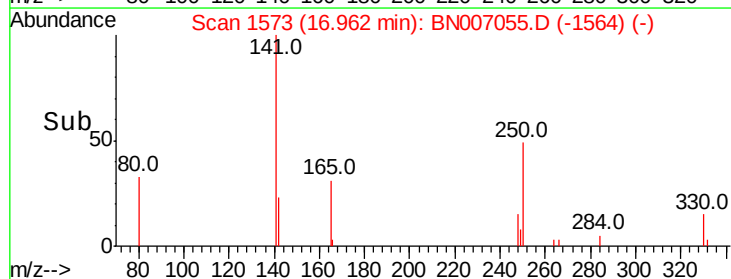
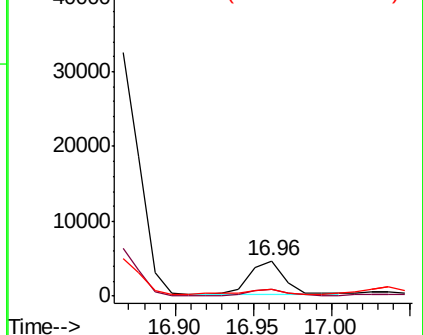
179 17.3 12.5 18.7

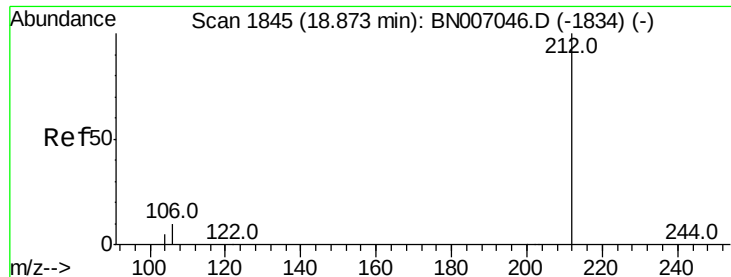


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

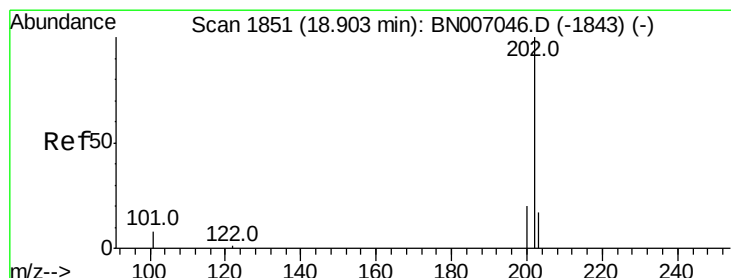
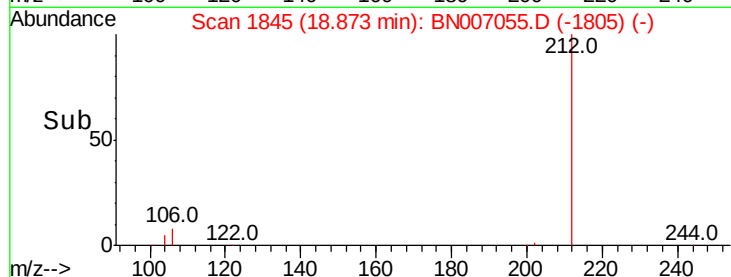
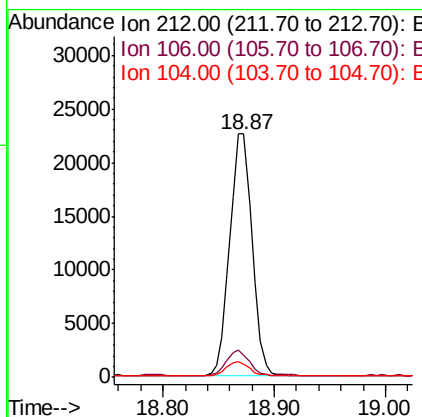
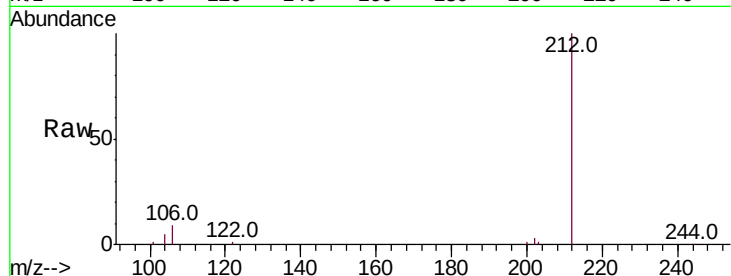




#24
 Fluoranthene-d10
 Concen: 0.194 ng
 RT: 18.87 min Scan# 1845
 Delta R.T. 0.00 min
 Lab File: BN007055.D
 Acq: 10 Aug 2019 19:22

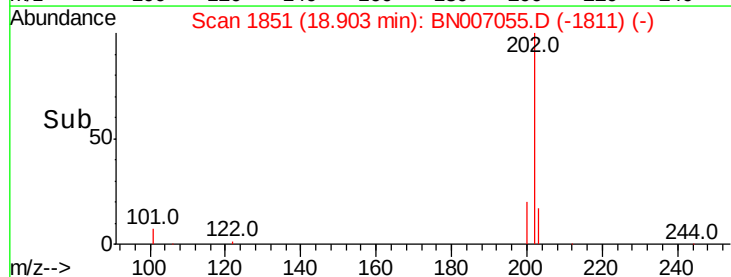
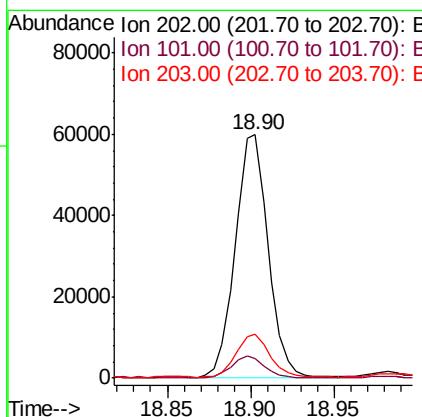
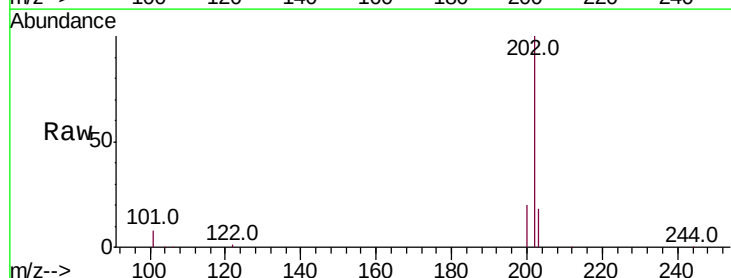
Instrument :
 BNA_N
 ClientSampleId :

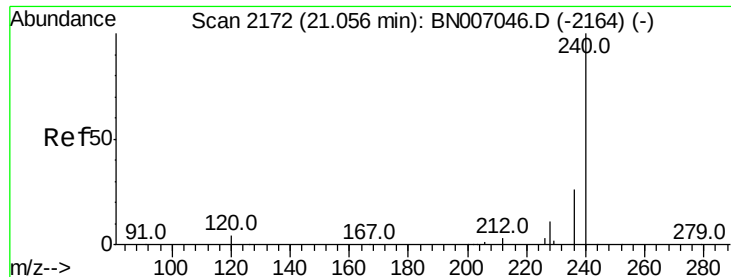
Tot Ion:212 Resp: 31492
 Ion Ratio Lower Upper
 212 100
 106 10.2 8.2 12.2
 104 5.7 4.5 6.7



#25
 Fluoranthene
 Concen: 0.464 ng
 RT: 18.90 min Scan# 1851
 Delta R.T. 0.00 min
 Lab File: BN007055.D
 Acq: 10 Aug 2019 19:22

Tgt Ion:202 Resp: 81527
 Ion Ratio Lower Upper
 202 100
 101 8.5 7.0 10.4
 203 17.9 13.8 20.8

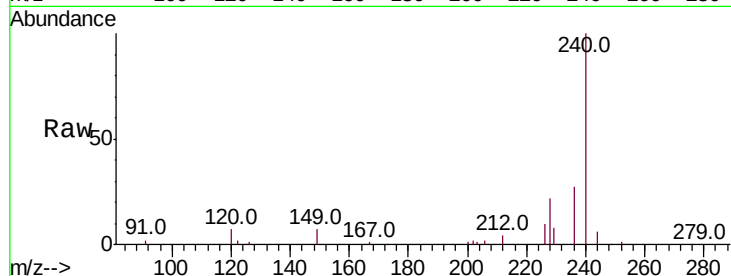




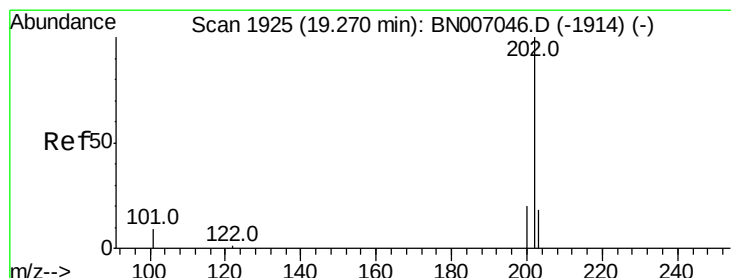
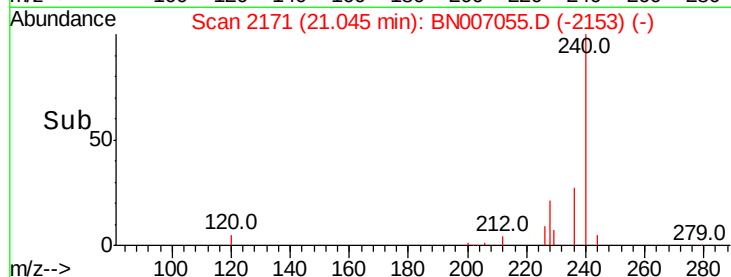
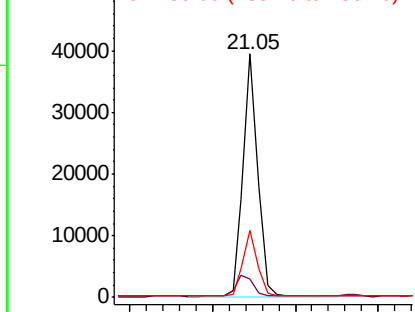
#26
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.05 min Scan# 2171
 Delta R.T. -0.01 min
 Lab File: BN007055.D
 Acq: 10 Aug 2019 19:22

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:240 Resp: 49023
 Ion Ratio Lower Upper
 240 100
 120 7.4 4.0 6.0#
 236 27.4 21.3 31.9

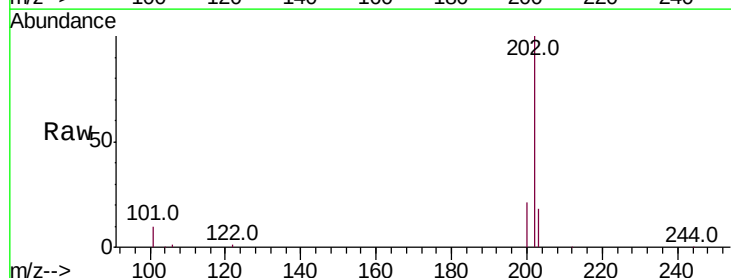


Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E

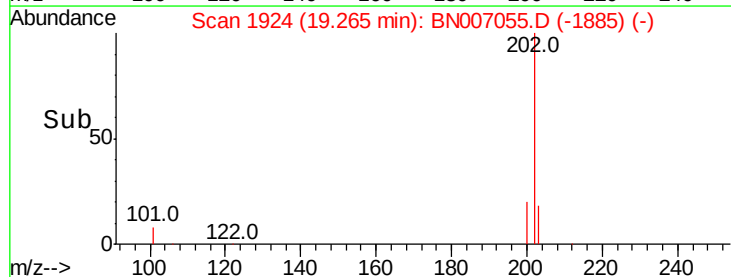
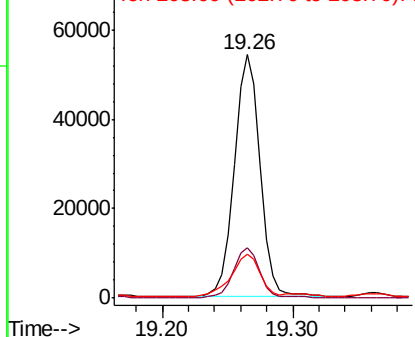


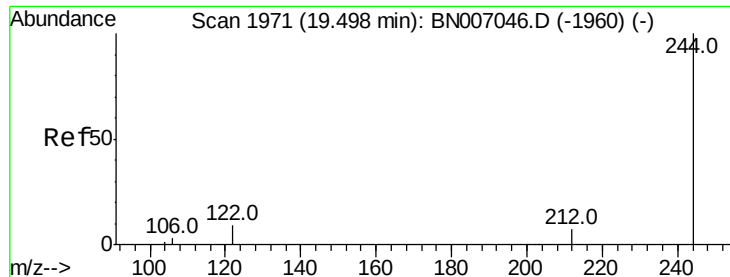
#27
 Pyrene
 Concen: 0.435 ng
 RT: 19.26 min Scan# 1924
 Delta R.T. -0.00 min
 Lab File: BN007055.D
 Acq: 10 Aug 2019 19:22

Tgt Ion:202 Resp: 74819
 Ion Ratio Lower Upper
 202 100
 200 20.8 16.6 24.8
 203 19.7 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

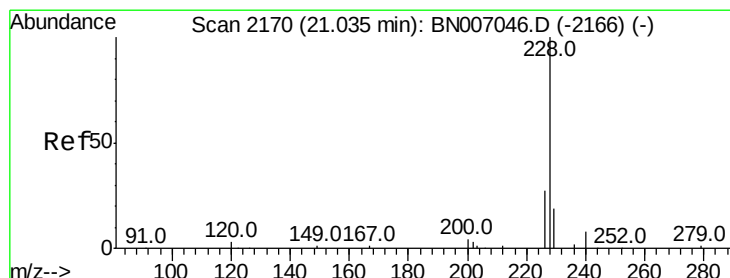
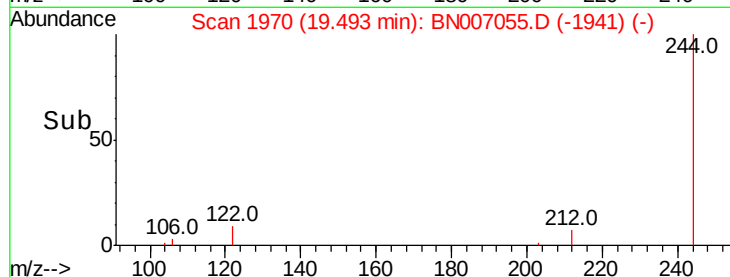
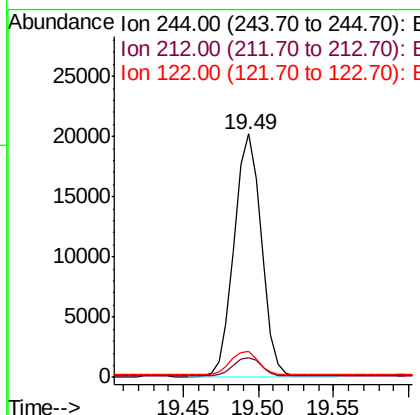
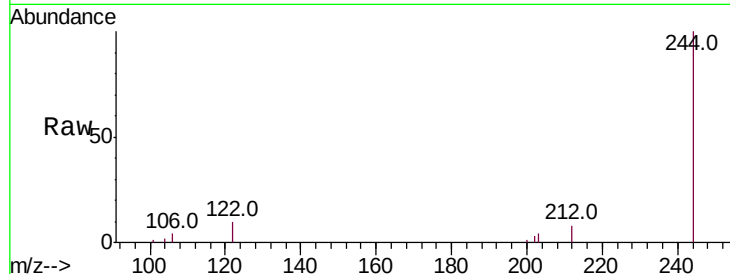




#28
 Terphenyl-d14
 Concen: 0.188 ng
 RT: 19.49 min Scan# 1970
 Delta R.T. -0.00 min
 Lab File: BN007055.D
 Acq: 10 Aug 2019 19:22

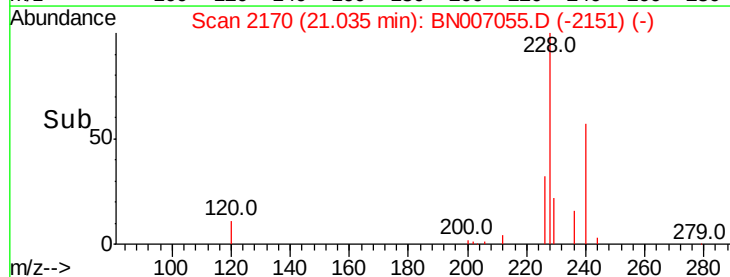
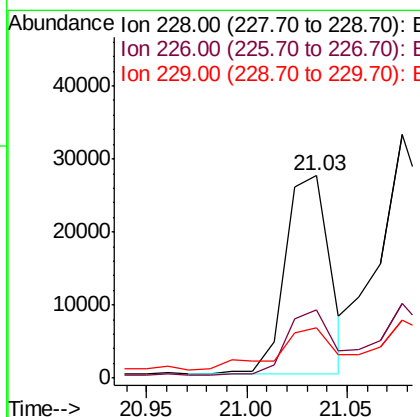
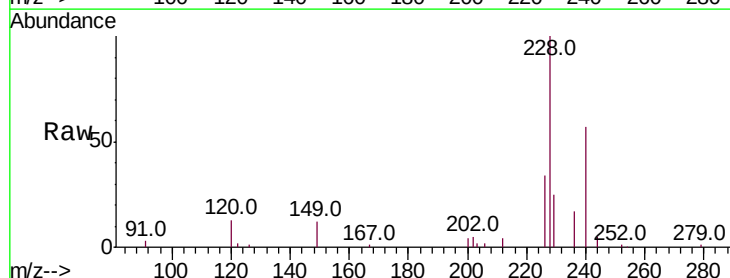
Instrument :
 BNA_N
 ClientSampled :

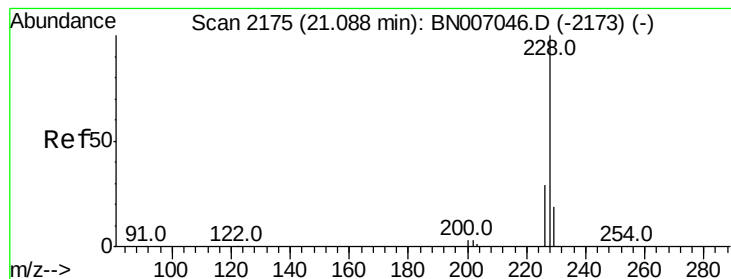
Tot Ion:244 Resp: 25164
 Ion Ratio Lower Upper
 244 100
 212 8.1 6.2 9.2
 122 10.4 7.4 11.2



#29
 Benzo(a)anthracene
 Concen: 0.233 ng
 RT: 21.03 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: BN007055.D
 Acq: 10 Aug 2019 19:22

Tgt Ion:228 Resp: 41746
 Ion Ratio Lower Upper
 228 100
 226 33.6 21.8 32.6#
 229 25.0 15.6 23.4#





#30

Chrysene

Concen: 0.283 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007055.D

Acq: 10 Aug 2019 19:22

Instrument :

BNA_N

ClientSampleId :

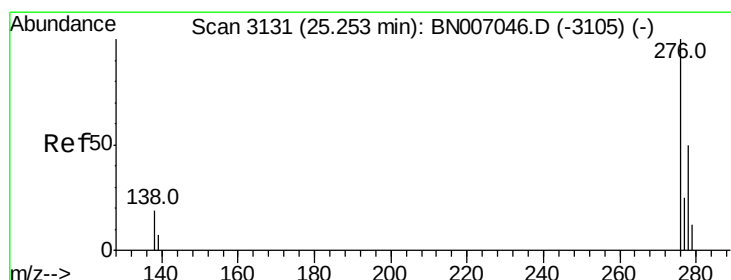
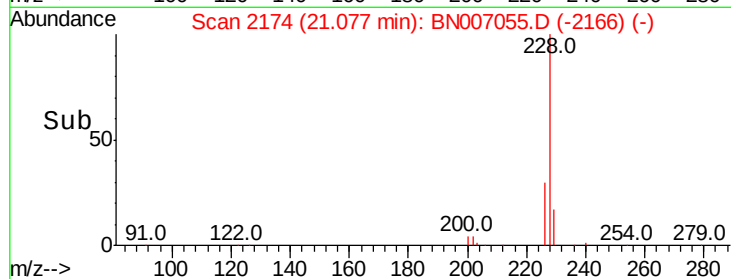
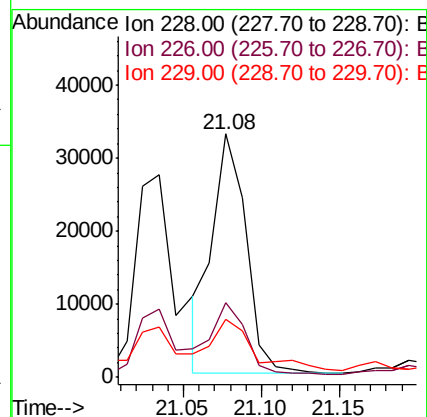
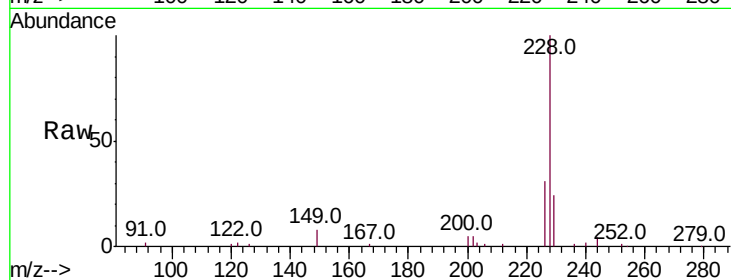
Tot Ion:228 Resp: 49287

Ion Ratio Lower Upper

228 100

226 30.6 23.8 35.6

229 23.9 15.7 23.5#



#31

Indeno(1,2,3-cd)pyrene

Concen: 0.127 ng

RT: 25.24 min Scan# 3126

Delta R.T. -0.02 min

Lab File: BN007055.D

Acq: 10 Aug 2019 19:22

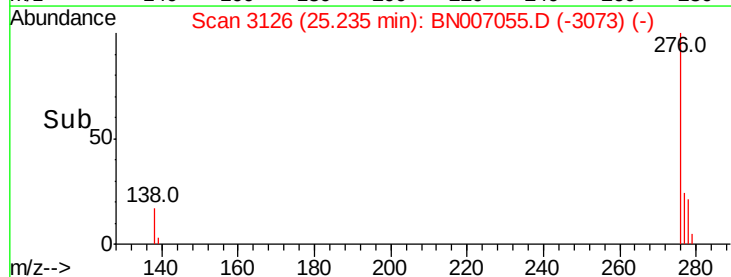
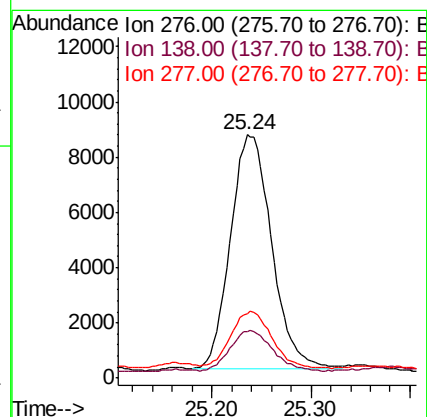
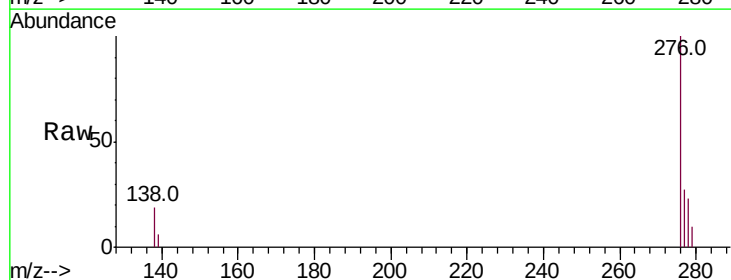
Tgt Ion:276 Resp: 24340

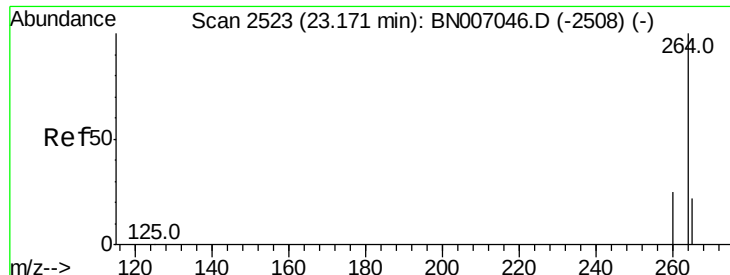
Ion Ratio Lower Upper

276 100

138 17.9 16.0 24.0

277 24.4 19.9 29.9



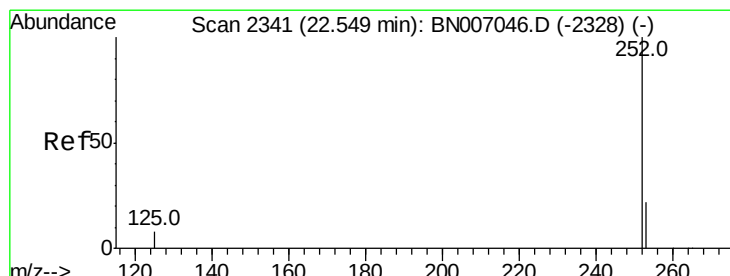
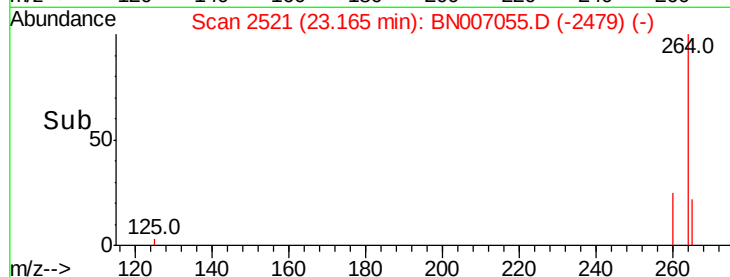
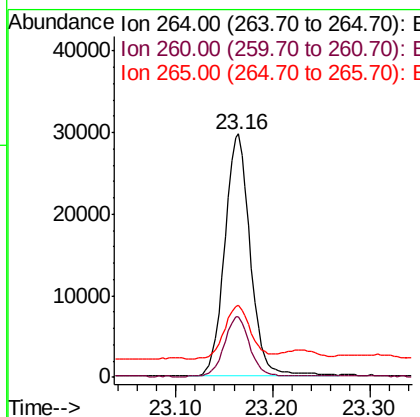
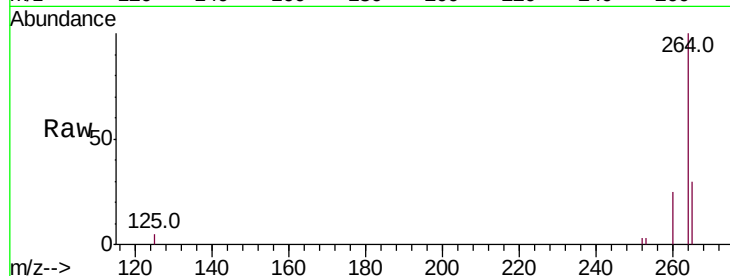


#32
Pervlene-d12
Concen: 0.400 ng
RT: 23.16 min Scan# 2521
Delta R.T. -0.01 min
Lab File: BN007055.D
Acq: 10 Aug 2019 19:22

Instrument :
BNA_N
ClientSampled :

Tot Ion:264 Resp: 54674

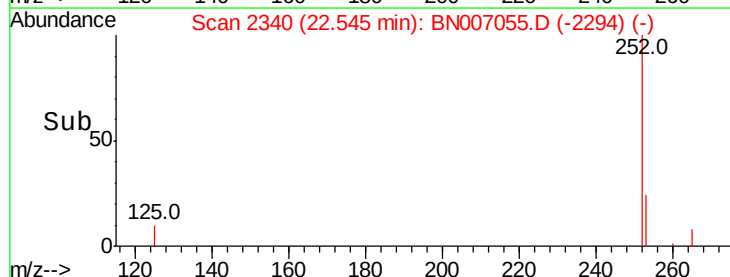
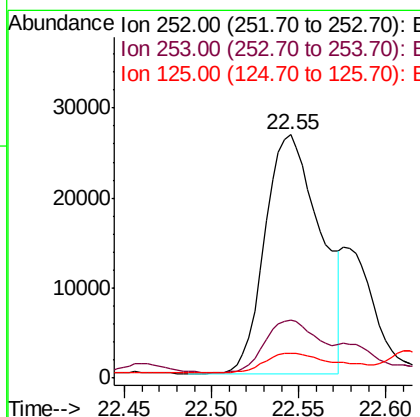
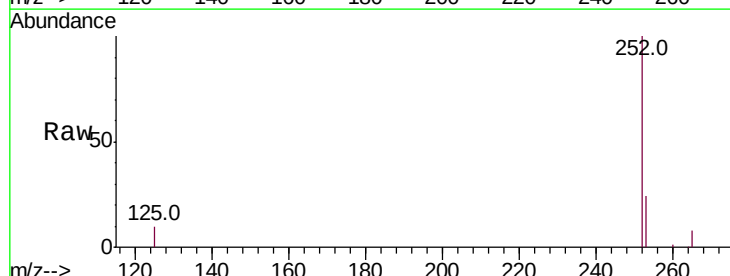
Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.8	29.8
265	29.6	26.2	39.4

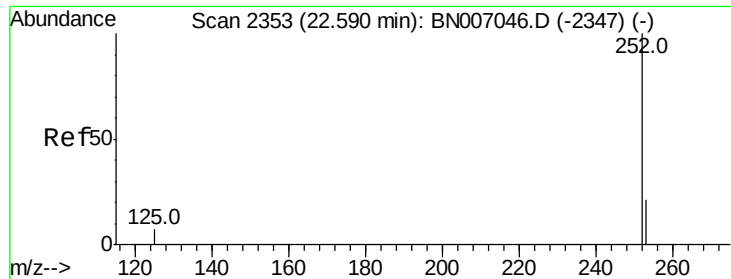


#33
Benzo(b)fluoranthene
Concen: 0.314 ng
RT: 22.55 min Scan# 2340
Delta R.T. -0.00 min
Lab File: BN007055.D
Acq: 10 Aug 2019 19:22

Tgt Ion:252 Resp: 58904

Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.2	27.2
125	10.1	7.4	11.0

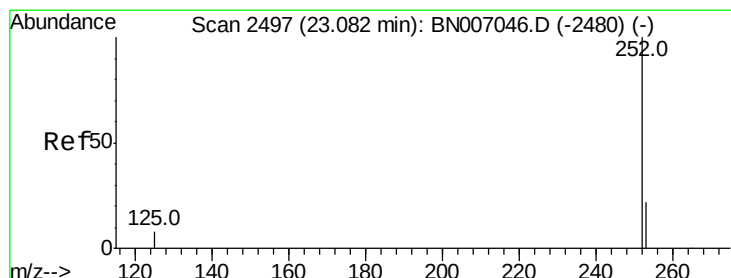
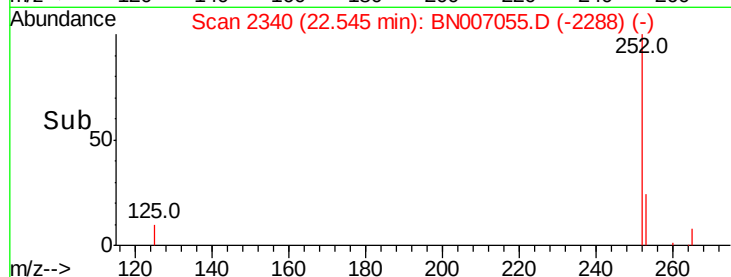
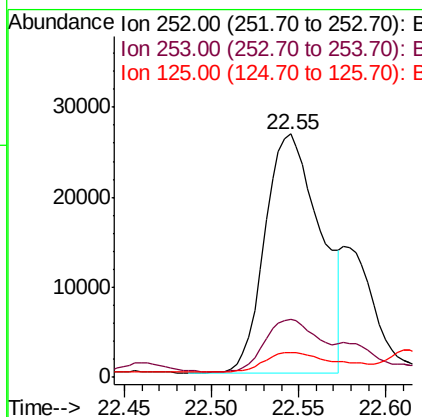
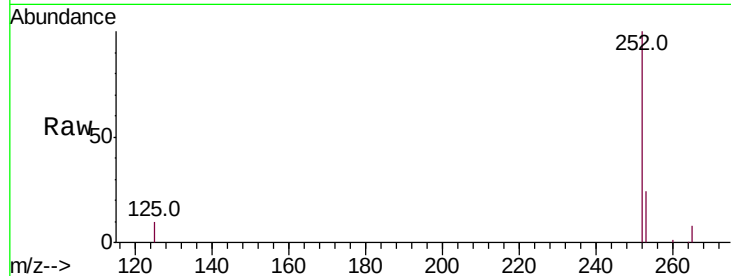




#34
Benzo(k)fluoranthene
Concen: 0.318 ng
RT: 22.55 min Scan# 2340
Delta R.T. -0.04 min
Lab File: BN007055.D
Acq: 10 Aug 2019 19:22

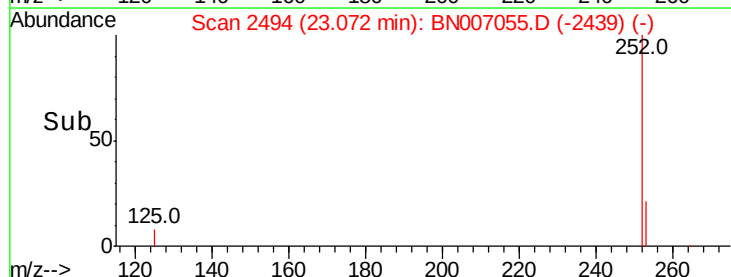
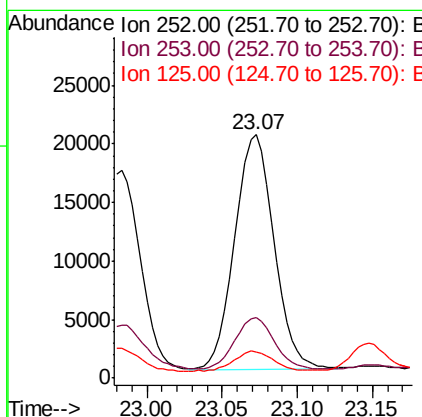
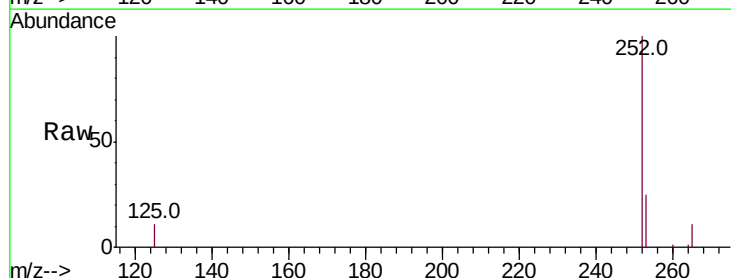
Instrument :
BNA_N
ClientSampleId :

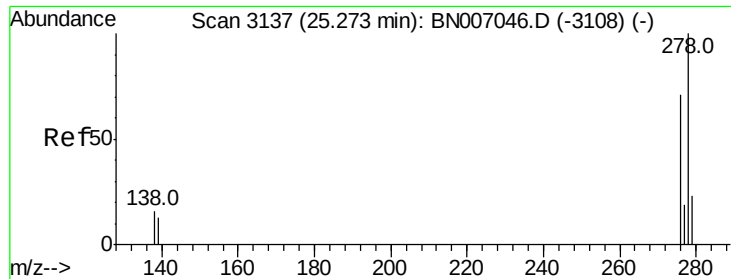
Tot Ion:252 Resp: 58904
Ion Ratio Lower Upper
252 100
253 24.0 18.1 27.1
125 10.1 7.4 11.0



#35
Benzo(a)pyrene
Concen: 0.210 ng
RT: 23.07 min Scan# 2494
Delta R.T. -0.01 min
Lab File: BN007055.D
Acq: 10 Aug 2019 19:22

Tgt Ion:252 Resp: 35752
Ion Ratio Lower Upper
252 100
253 25.0 18.5 27.7
125 10.9 8.2 12.4



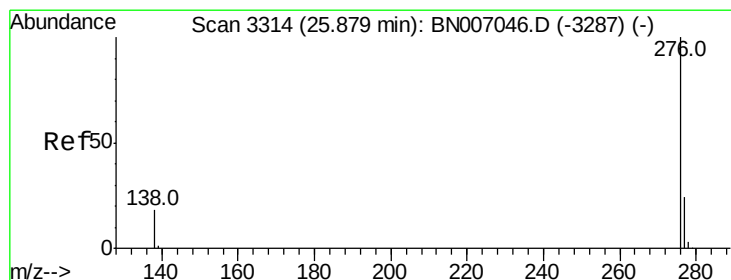
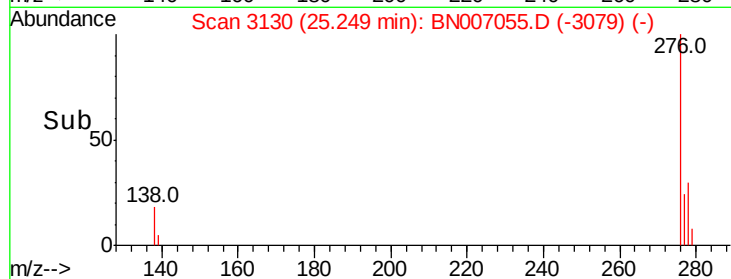
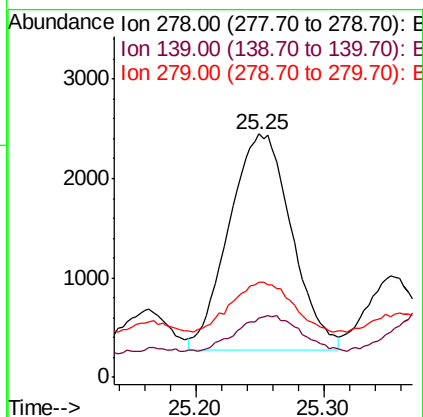
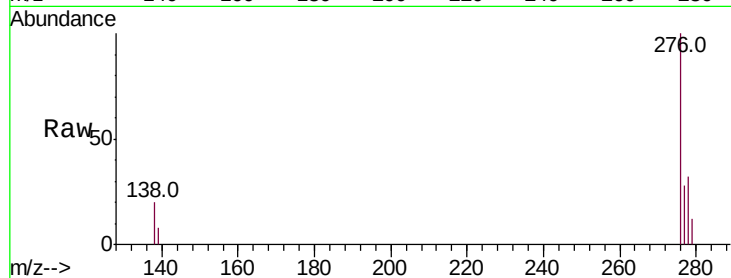


#36
Dibenzo(a,h)anthracene
Concen: 0.044 ng
RT: 25.25 min Scan# 3130
Delta R.T. -0.02 min
Lab File: BN007055.D
Acq: 10 Aug 2019 19:22

Instrument :
BNA_N
ClientSampleId :

Tot Ion:278 Resp: 7384

Ion	Ratio	Lower	Upper
278	100		
139	24.5	11.3	16.9#
279	39.0	19.3	28.9#



#37
Benzo(g,h,i)perylene
Concen: 0.145 ng
RT: 25.87 min Scan# 3311
Delta R.T. -0.01 min
Lab File: BN007055.D
Acq: 10 Aug 2019 19:22

Tgt Ion:276 Resp: 25210

Ion	Ratio	Lower	Upper
276	100		
277	27.0	19.8	29.8
138	19.3	14.6	22.0

