

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081419\
 Data File : BN007180.D
 Acq On : 15 Aug 2019 01:18
 Operator : HP/JU
 Sample : K4282-06
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 15 11:04:52 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	7585	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	28552	0.40	ng	0.00
12) Acenaphthene-d10	14.06	164	15708	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	35659	0.40	ng	0.00
26) Chrysene-d12	21.03	240	33421	0.40	ng	-0.02
32) Perylene-d12	23.15	264	37269	0.40	ng	-0.02

System Monitoring Compounds						
3) 2-Fluorophenol	5.05	112	1284	0.07	ng	0.00
4) Phenol-d6	6.61	99	1681	0.07	ng	0.00
7) Nitrobenzene-d5	8.55	82	1543	0.07	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	2609	0.05	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	656	0.08	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	766	0.03	ng	0.00
24) Fluoranthene-d10	18.87	212	6483	0.05	ng	0.00
28) Terphenyl-d14	19.48	244	5222	0.06	ng	-0.02

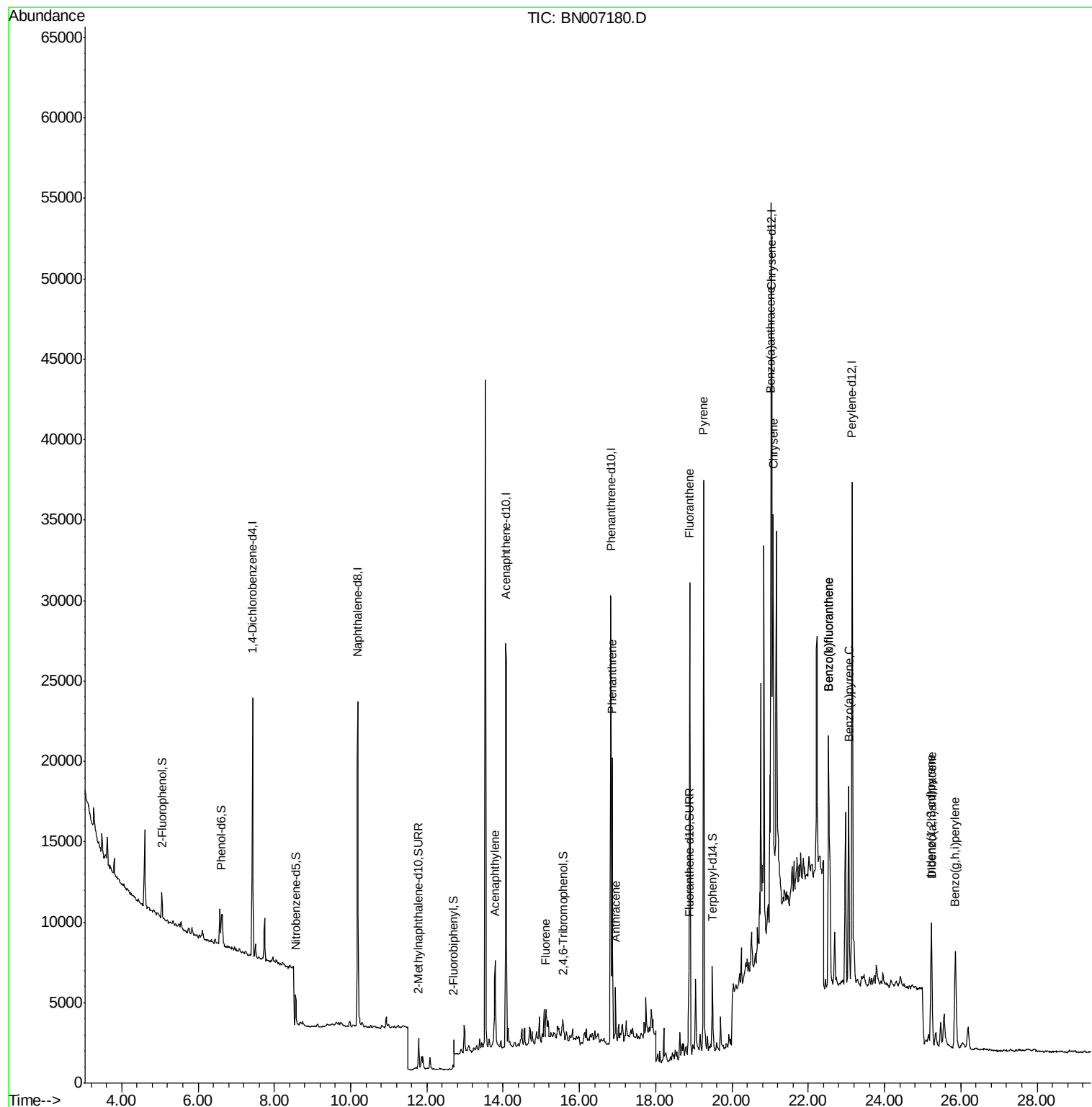
Target Compounds				Qvalue		
15) Acenaphthylene	13.79	152	10065	0.123	ng	99
17) Fluorene	15.12	166	2006	0.025	ng	# 71
22) Phenanthrene	16.87	178	18934	0.177	ng	99
23) Anthracene	16.95	178	3377	0.035	ng	# 91
25) Fluoranthene	18.90	202	28307	0.207	ng	99
27) Pyrene	19.26	202	31795	0.271	ng	98
29) Benzo(a)anthracene	21.02	228	18121	0.148	ng	# 79
30) Chrysene	21.08	228	23412	0.197	ng	# 93
31) Indeno(1,2,3-cd)pyrene	25.23	276	11731	0.090	ng	99
33) Benzo(b)fluoranthene	22.53	252	25609	0.200	ng	# 87
34) Benzo(k)fluoranthene	22.53	252	25609	0.203	ng	# 87
35) Benzo(a)pyrene	23.06	252	16505	0.142	ng	# 84
36) Dibenzo(a,h)anthracene	25.24	278	3182	0.028	ng	# 28
37) Benzo(g,h,i)perylene	25.85	276	12552	0.106	ng	# 86

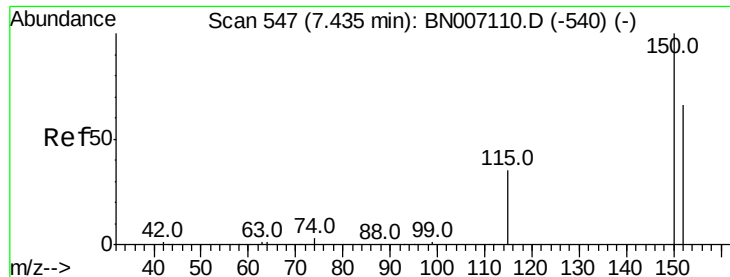
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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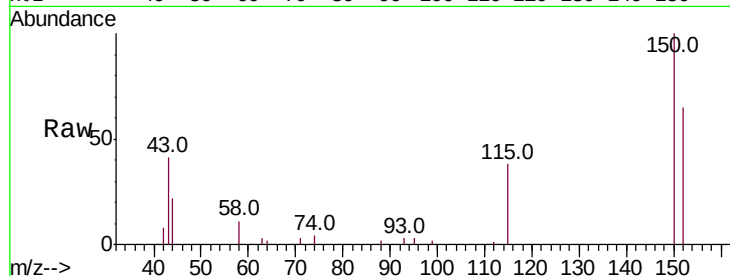


#1

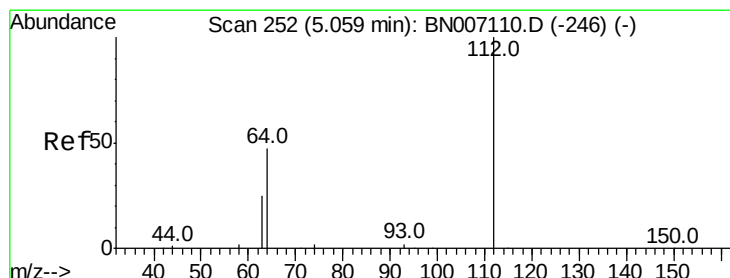
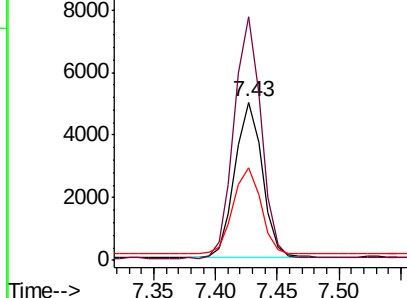
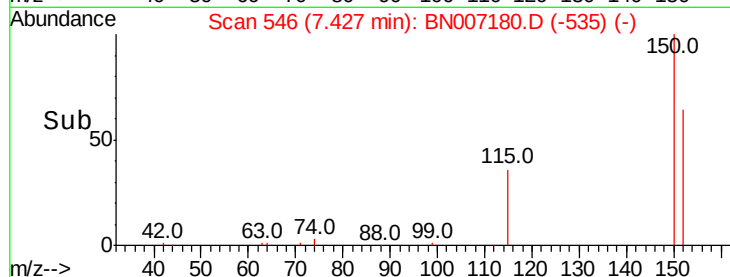
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007180.D
Acq: 15 Aug 2019 01:18

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 7585
Ion Ratio Lower Upper
152 100
150 154.0 121.7 182.5
115 58.8 46.2 69.4



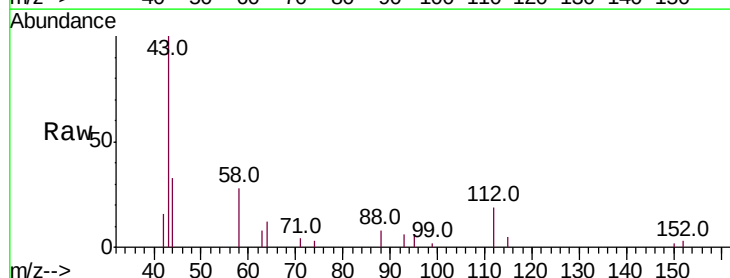
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



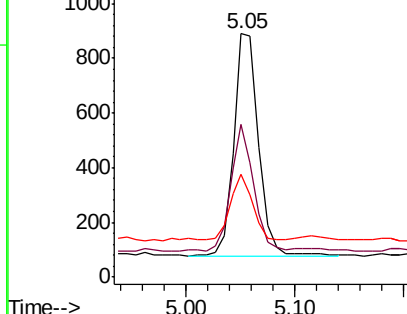
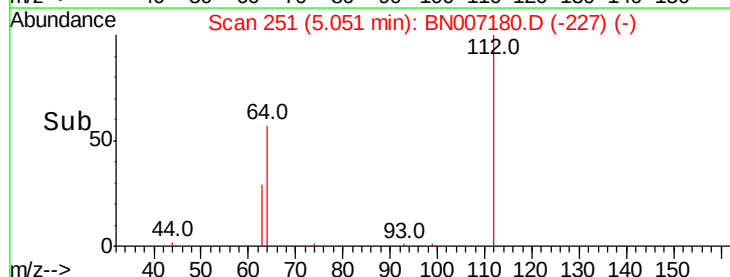
#3

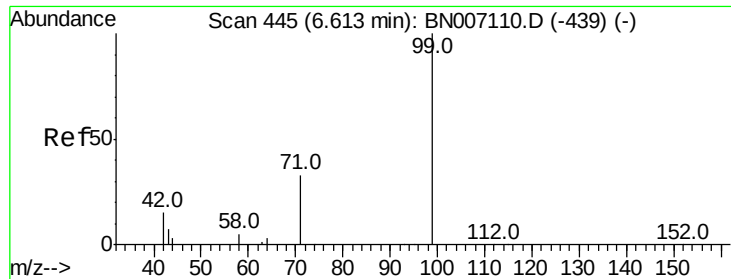
2-Fluorophenol
Concen: 0.070 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007180.D
Acq: 15 Aug 2019 01:18

Tgt Ion:112 Resp: 1284
Ion Ratio Lower Upper
112 100
64 52.3 42.6 63.8
63 27.0 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: 0.074 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

Instrument :

BNA_N

ClientSampleId :

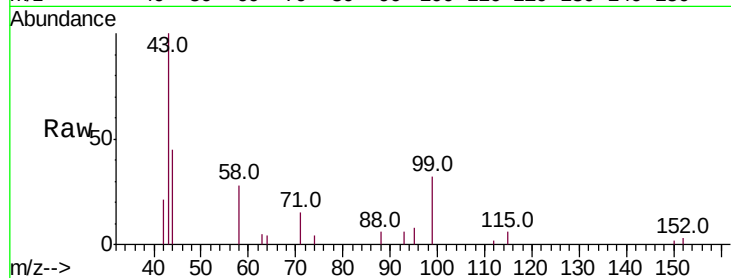
Tot Ion: 99 Resp: 1681

Ion Ratio Lower Upper

99 100

42 31.6 15.8 23.6#

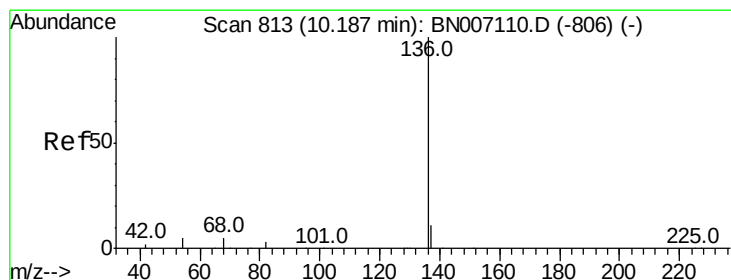
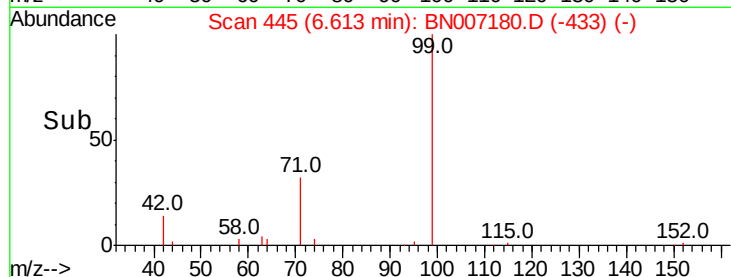
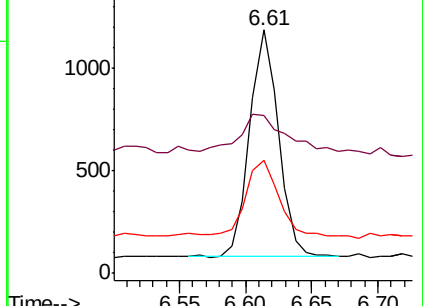
71 41.6 27.0 40.4#



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

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

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



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

Tgt Ion: 136 Resp: 28552

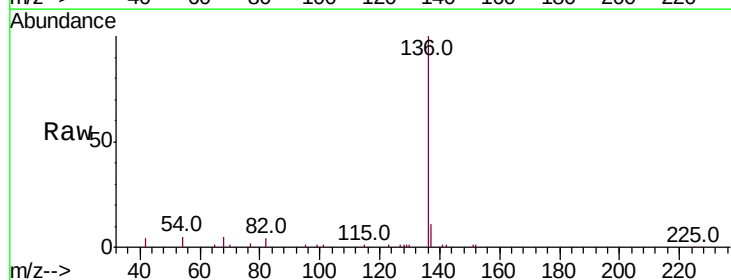
Ion Ratio Lower Upper

136 100

137 11.5 9.4 14.0

54 4.9 6.6 9.8#

68 4.8 6.0 9.0#

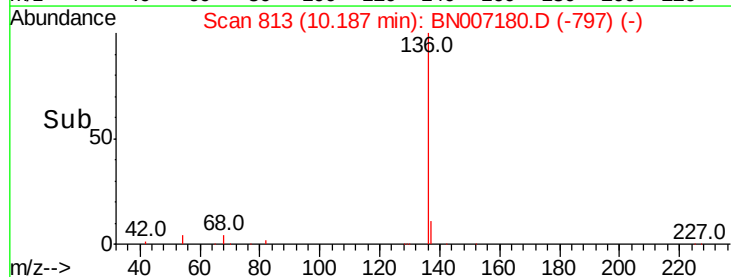
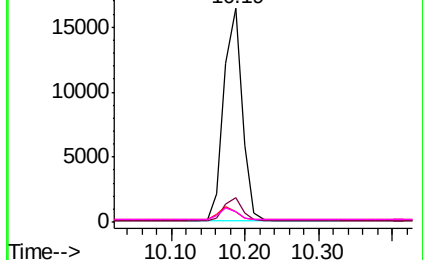


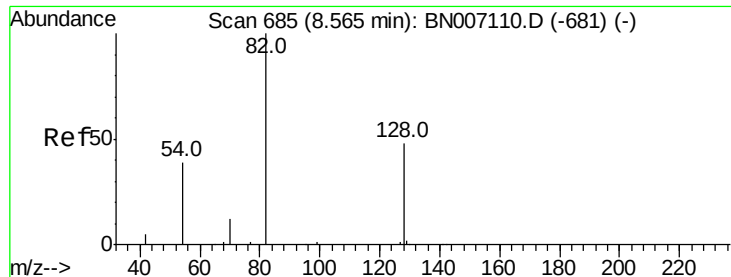
Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

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

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

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





#7

Nitrobenzene-d5

Concen: 0.067 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

Instrument :

BNA_N

ClientSampleId :

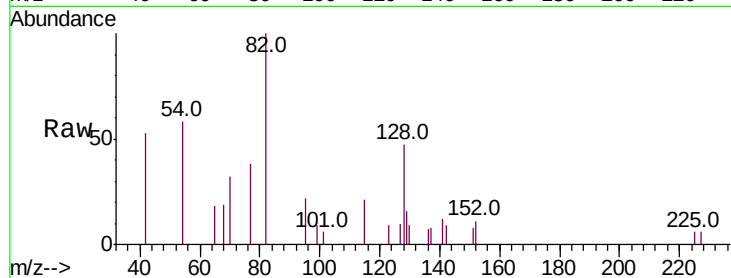
Tot Ion: 82 Resp: 1543

Ion Ratio Lower Upper

82 100

128 47.2 34.6 51.8

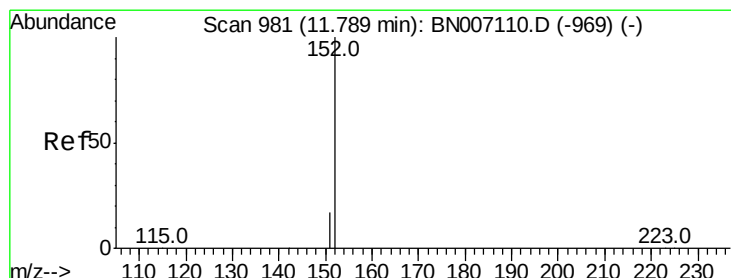
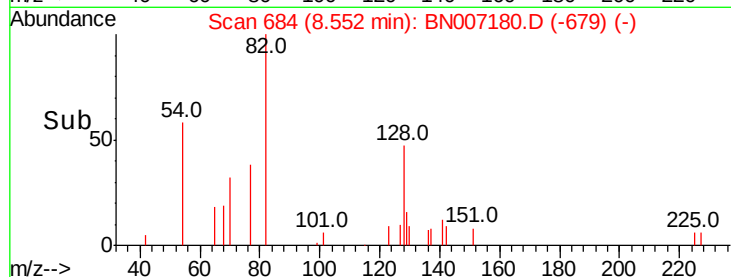
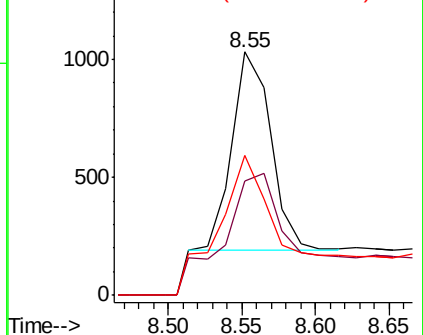
54 57.6 36.2 54.4#



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) (-)



#10

2-Methylnaphthalene-d10

Concen: 0.049 ng

RT: 11.78 min Scan# 980

Delta R.T. -0.01 min

Lab File: BN007180.D

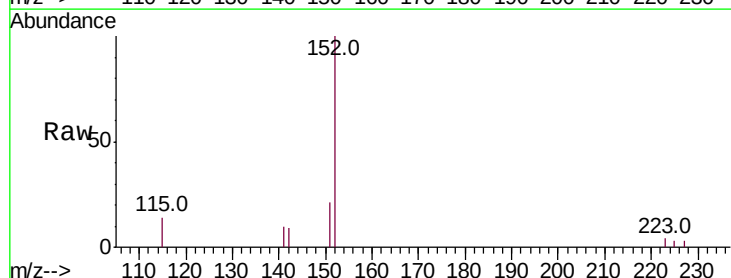
Acq: 15 Aug 2019 01:18

Tgt Ion: 152 Resp: 2609

Ion Ratio Lower Upper

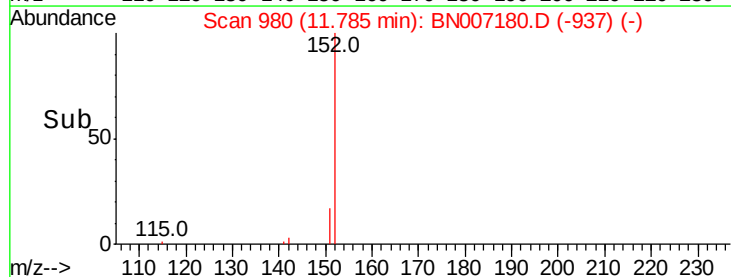
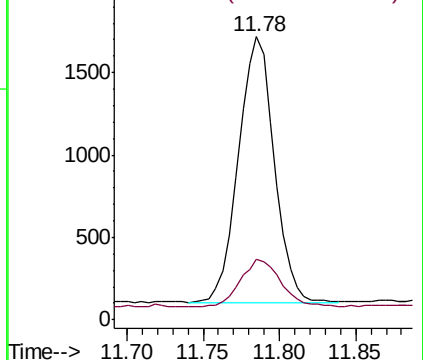
152 100

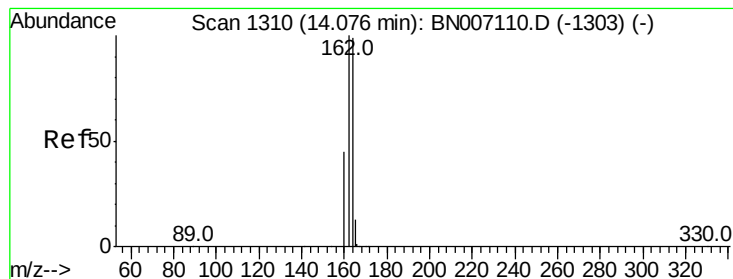
151 20.0 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BN007110.D (-969) (-)

Ion 151.00 (150.70 to 151.70): BN007110.D (-969) (-)





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.06 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

Instrument :

BNA_N

ClientSampleId :

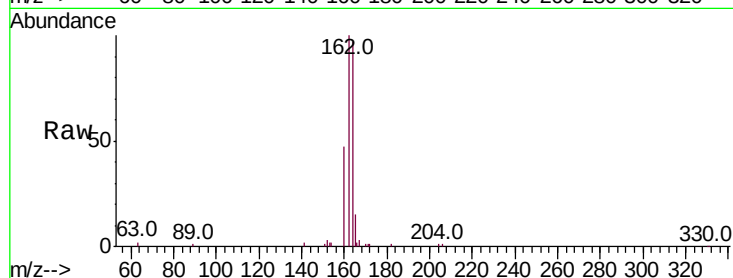
Tot Ion:164 Resp: 15708

Ion Ratio Lower Upper

164 100

162 103.1 82.2 123.4

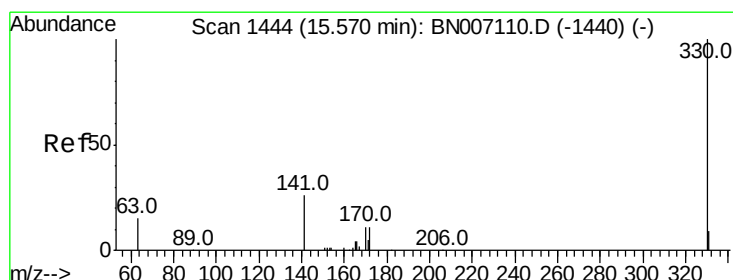
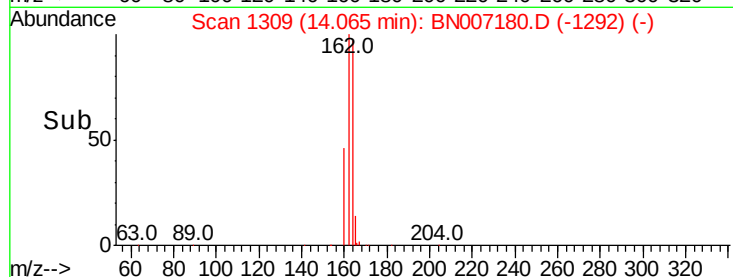
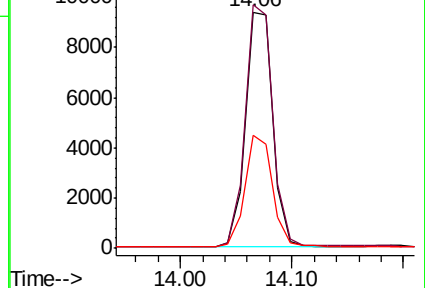
160 48.1 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#13

2,4,6-Tribromophenol

Concen: 0.078 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

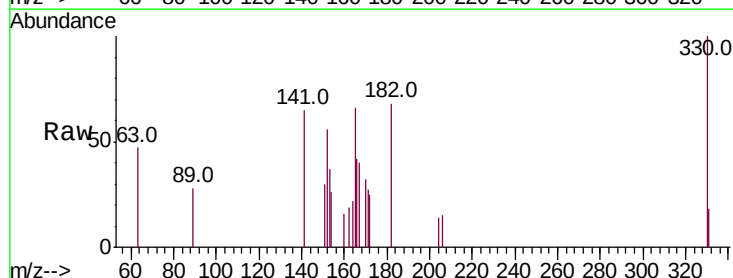
Tgt Ion:330 Resp: 656

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

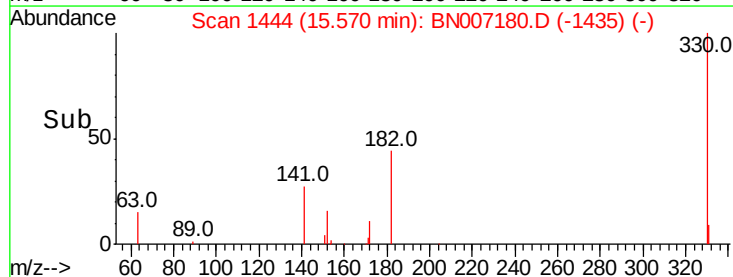
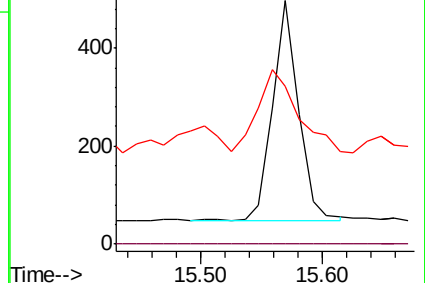
141 57.9 33.6 50.4#

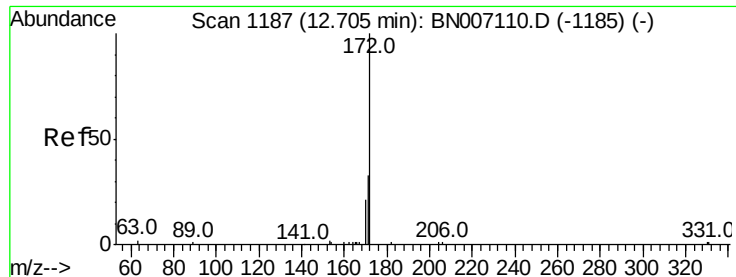


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

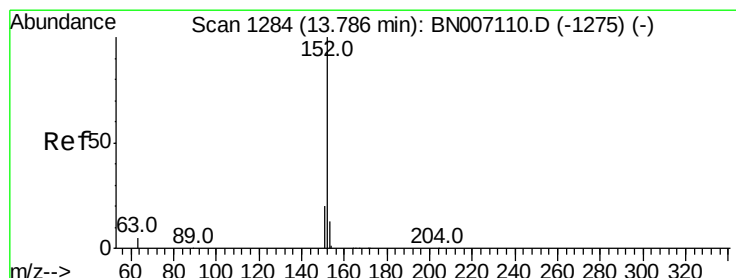
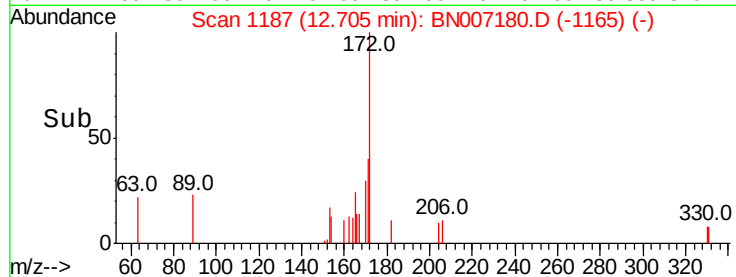
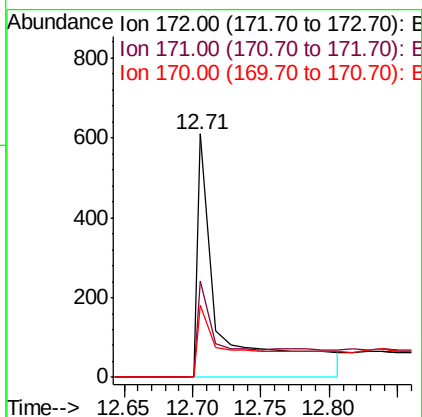
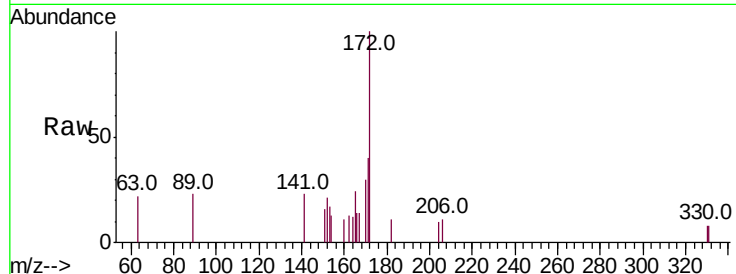




#14
2-Fluorobiphenyl
Concen: 0.034 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007180.D
Acq: 15 Aug 2019 01:18

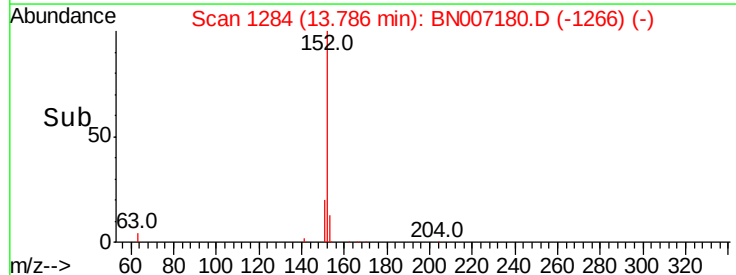
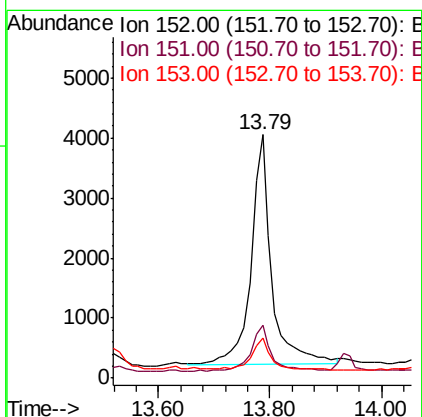
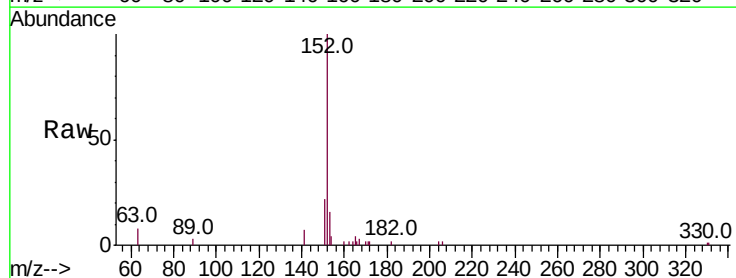
Instrument :
BNA_N
ClientSampleId :

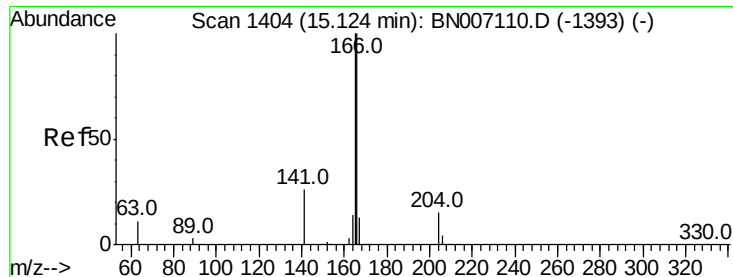
Tot Ion:172 Resp: 766
Ion Ratio Lower Upper
172 100
171 39.7 26.3 39.5#
170 29.7 17.0 25.4#



#15
Acenaphthylene
Concen: 0.123 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007180.D
Acq: 15 Aug 2019 01:18

Tgt Ion:152 Resp: 10065
Ion Ratio Lower Upper
152 100
151 19.4 15.8 23.6
153 12.8 10.4 15.6

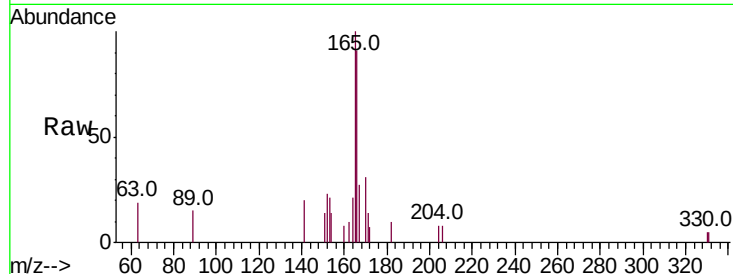




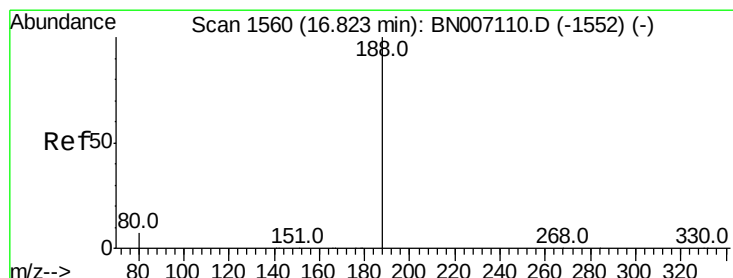
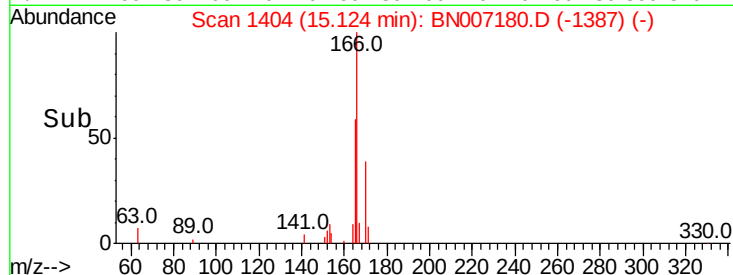
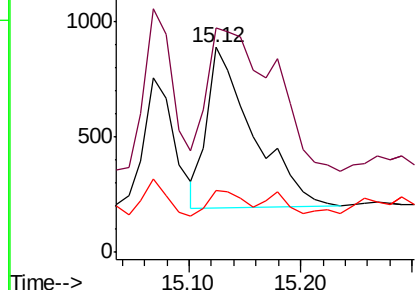
#17
Fluorene
Concen: 0.025 ng
RT: 15.12 min Scan# 1404
Delta R.T. -0.01 min
Lab File: BN007180.D
Acq: 15 Aug 2019 01:18

Instrument :
BNA_N
ClientSampled :

Tot Ion:166 Resp: 2006
Ion Ratio Lower Upper
166 100
165 129.6 77.9 116.9#
167 12.0 10.9 16.3

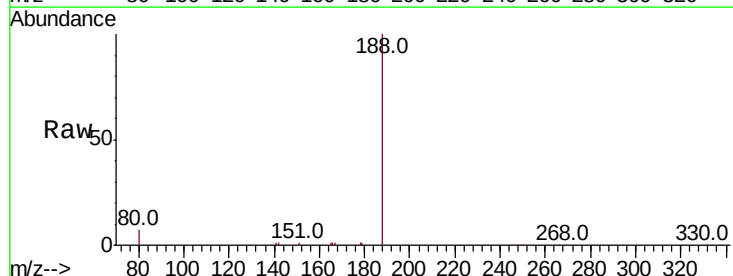


Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

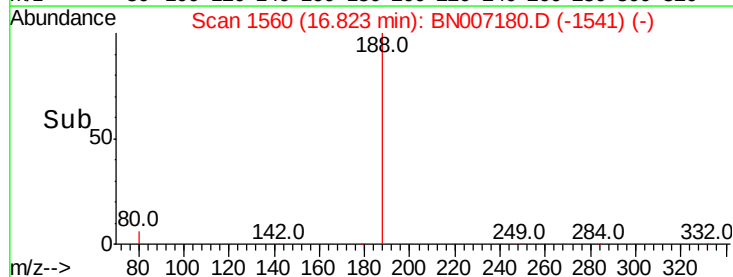
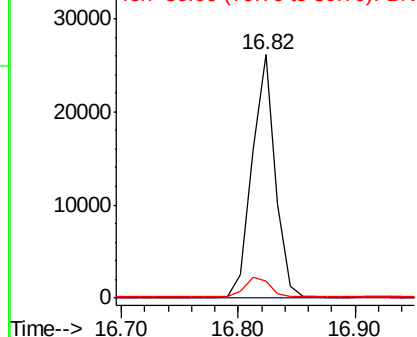


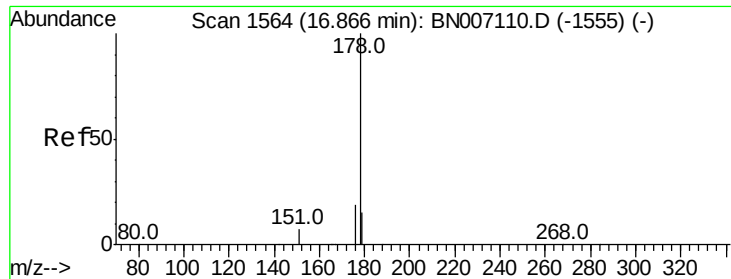
#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007180.D
Acq: 15 Aug 2019 01:18

Tgt Ion:188 Resp: 35659
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.9 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: 0.177 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

Instrument :

BNA_N

ClientSampleId :

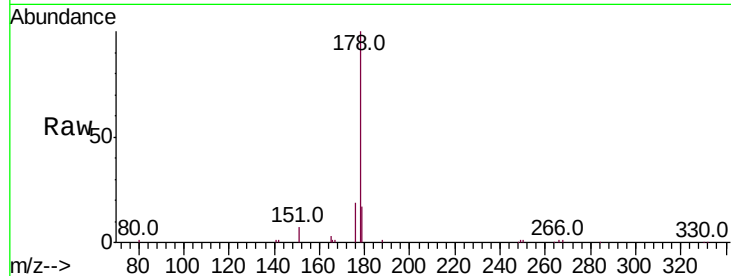
Tot Ion:178 Resp: 18934

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

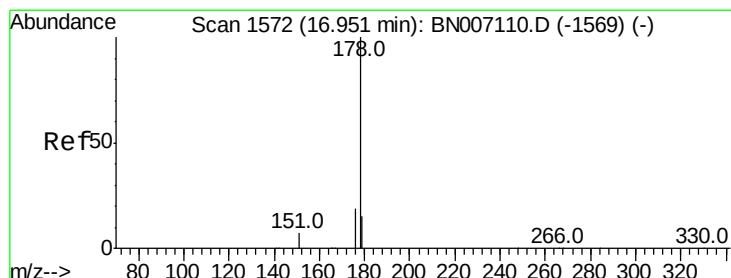
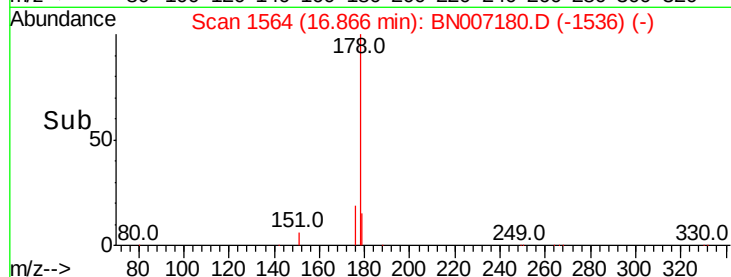
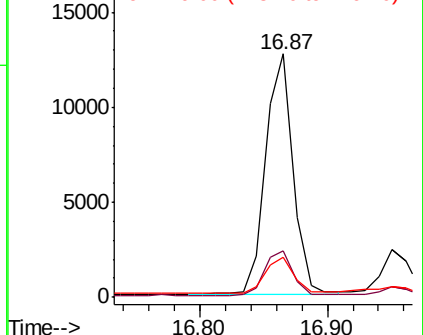
179 16.1 12.3 18.5



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: 0.035 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

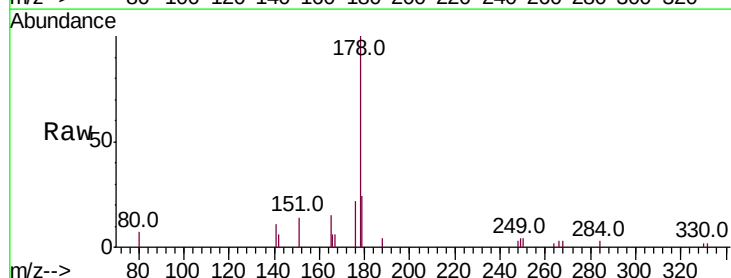
Tgt Ion:178 Resp: 3377

Ion Ratio Lower Upper

178 100

176 19.0 14.6 21.8

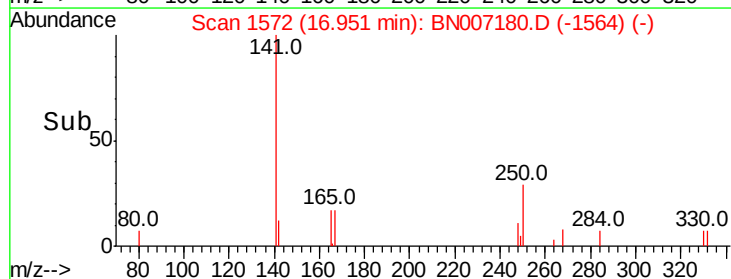
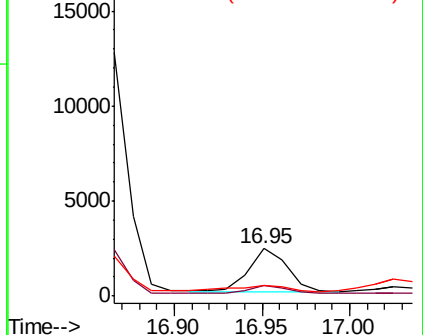
179 22.5 12.5 18.7#

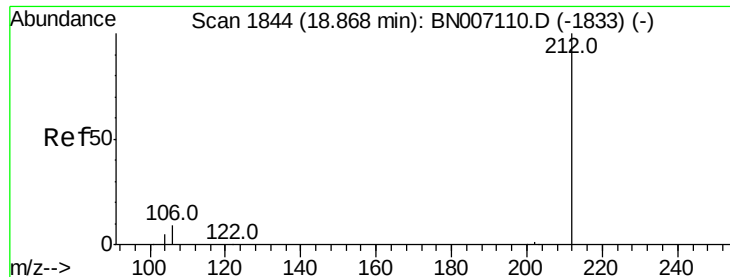


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Fluoranthene-d10

Concen: 0.051 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

Instrument :

BNA_N

ClientSampleId :

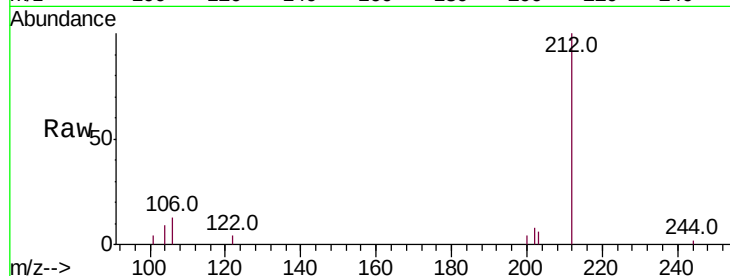
Tot Ion:212 Resp: 6483

Ion Ratio Lower Upper

212 100

106 11.0 8.2 12.2

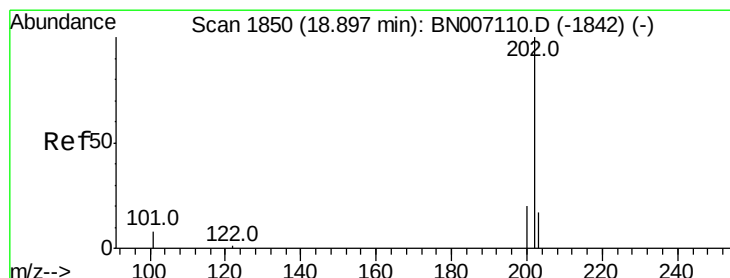
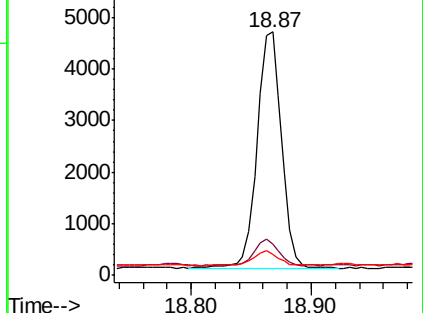
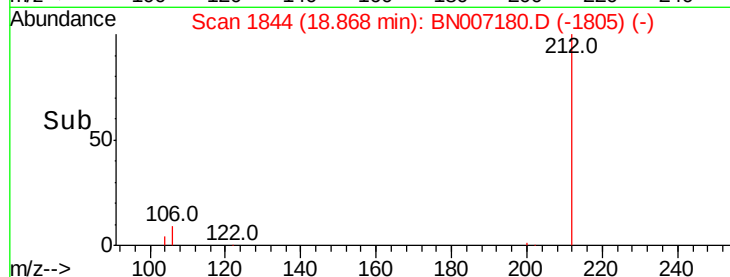
104 6.4 4.5 6.7



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: 0.207 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

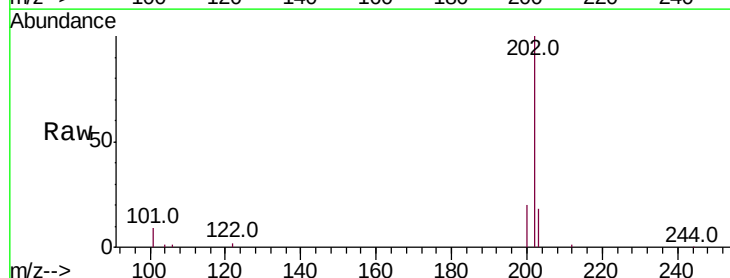
Tgt Ion:202 Resp: 28307

Ion Ratio Lower Upper

202 100

101 8.9 7.0 10.4

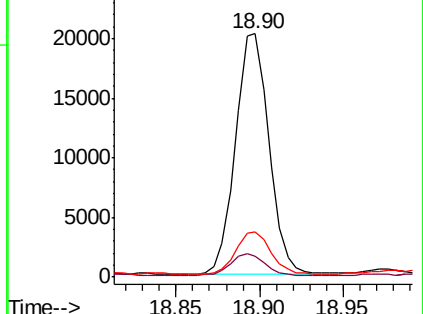
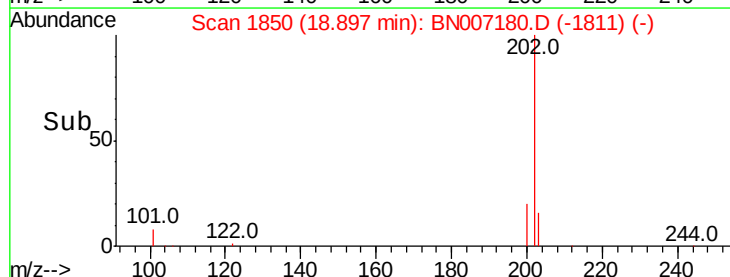
203 17.8 13.8 20.8

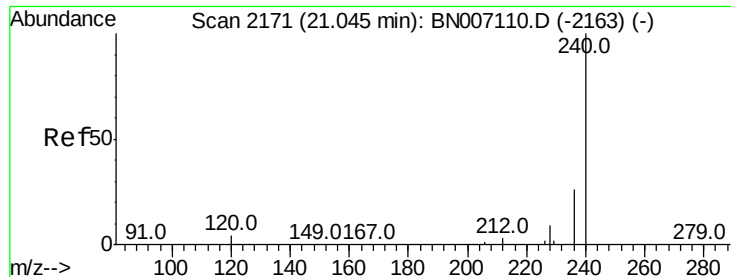


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#26

Chrysene-d12

Concen: 0.400 ng

RT: 21.03 min Scan# 2170

Delta R.T. -0.02 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

Instrument :

BNA_N

ClientSampleId :

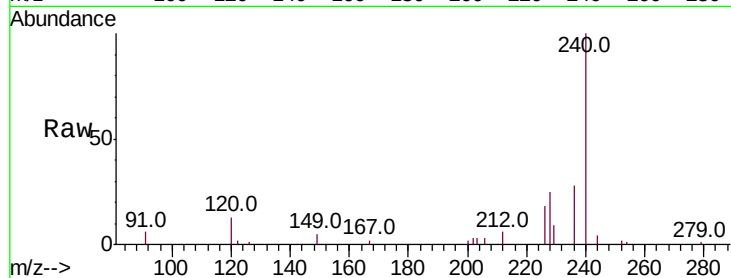
Tot Ion:240 Resp: 33421

Ion Ratio Lower Upper

240 100

120 12.5 4.0 6.0#

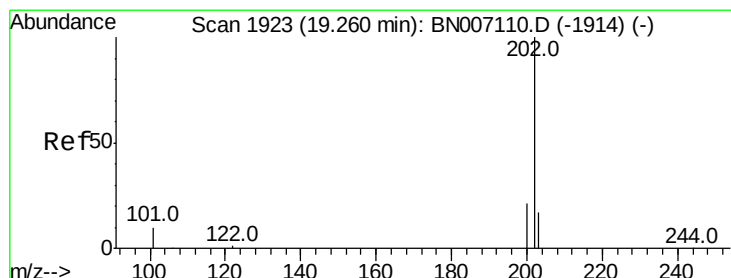
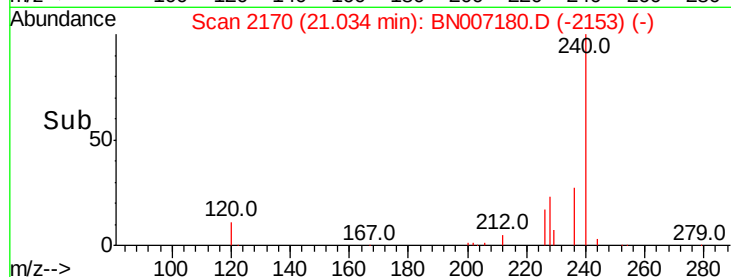
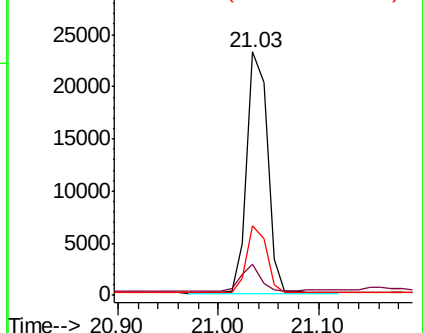
236 28.3 21.3 31.9



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: 0.271 ng

RT: 19.26 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

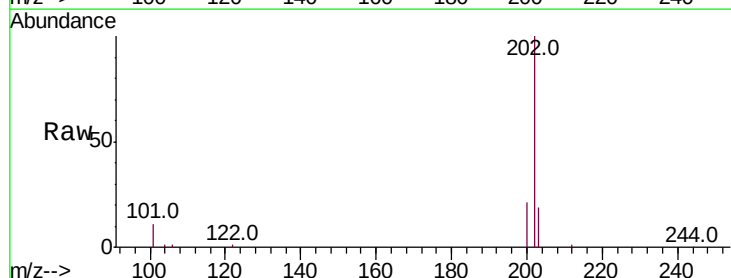
Tgt Ion:202 Resp: 31795

Ion Ratio Lower Upper

202 100

200 20.8 16.6 24.8

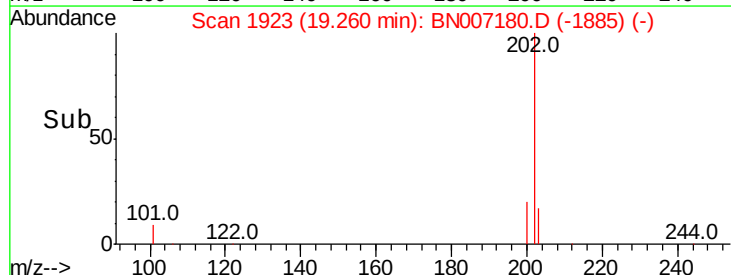
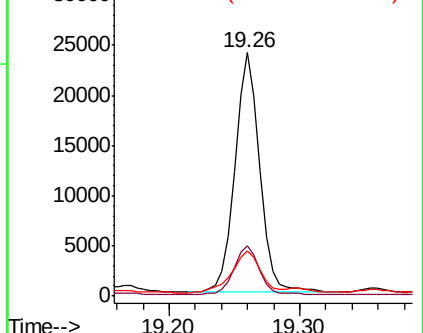
203 19.7 14.0 21.0

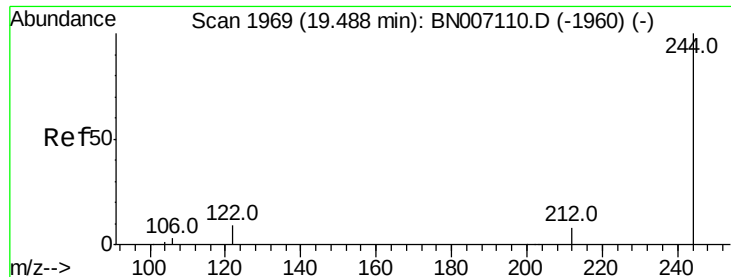


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#28

Terphenyl-d14

Concen: 0.057 ng

RT: 19.48 min Scan# 1968

Delta R.T. -0.02 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

Instrument :

BNA_N

ClientSampled :

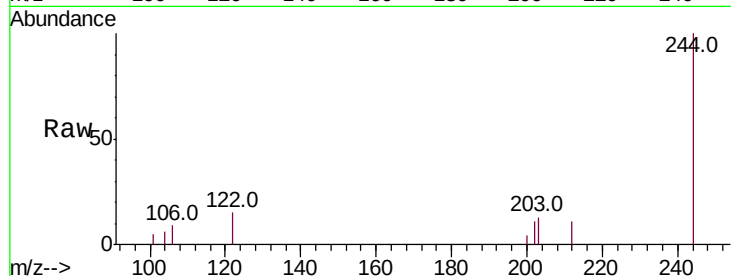
Tot Ion:244 Resp: 5222

Ion Ratio Lower Upper

244 100

212 10.9 6.2 9.2#

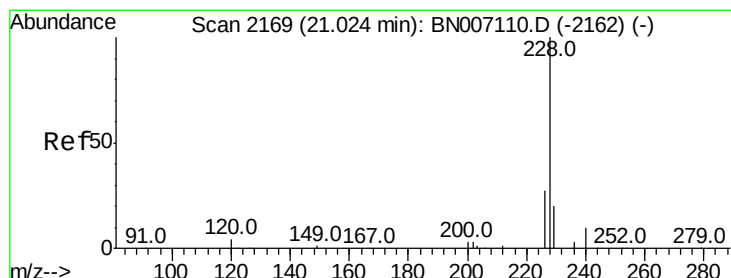
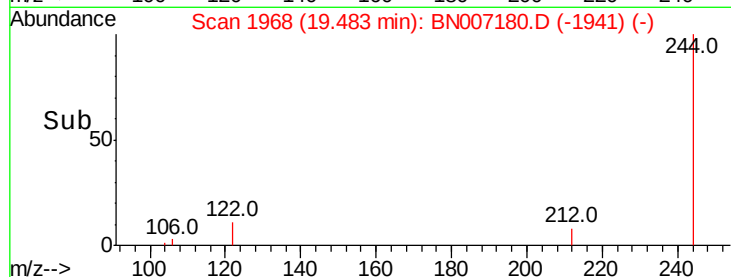
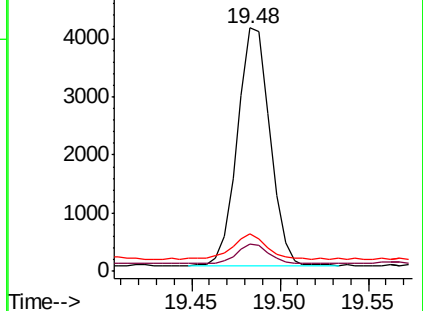
122 15.2 7.4 11.2#



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: 0.148 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

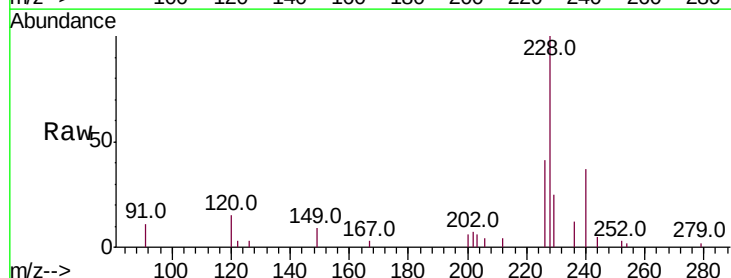
Tgt Ion:228 Resp: 18121

Ion Ratio Lower Upper

228 100

226 41.4 21.8 32.6#

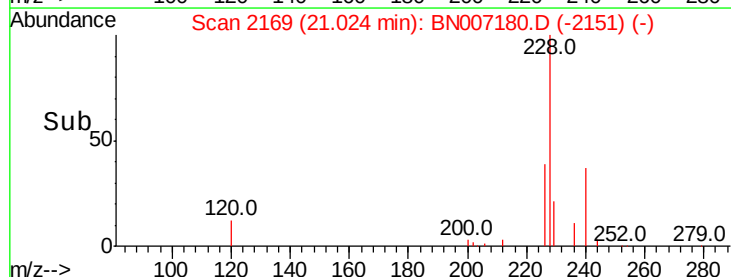
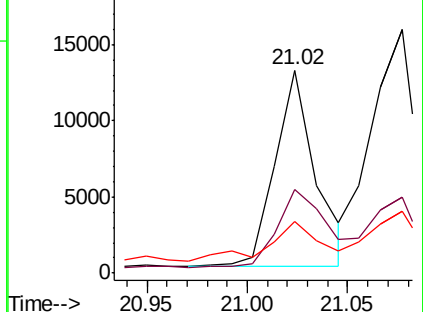
229 25.4 15.6 23.4#

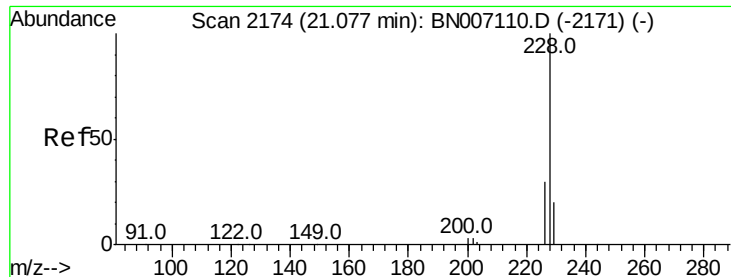


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#30

Chrysene

Concen: 0.197 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

Instrument :

BNA_N

ClientSampleId :

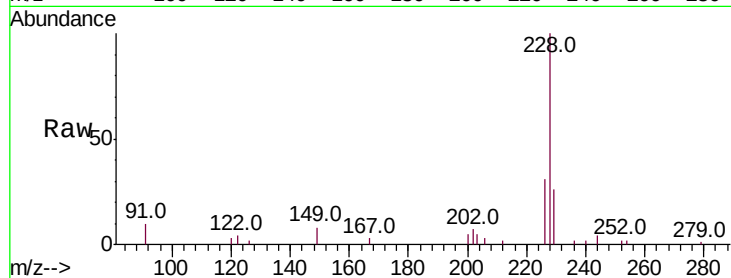
Tot Ion:228 Resp: 23412

Ion Ratio Lower Upper

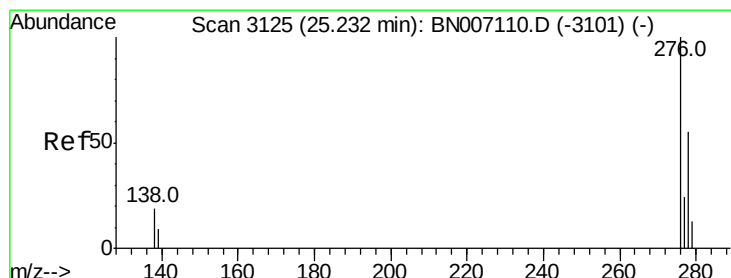
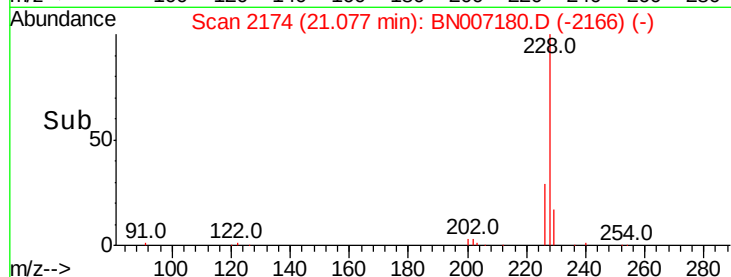
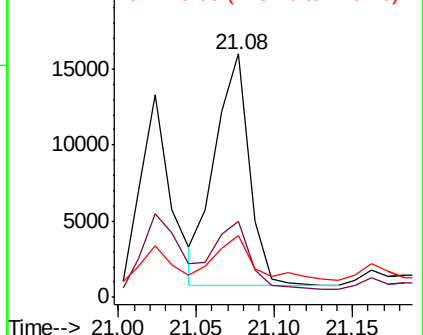
228 100

226 31.2 23.8 35.6

229 25.5 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: 0.090 ng

RT: 25.23 min Scan# 3124

Delta R.T. -0.02 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

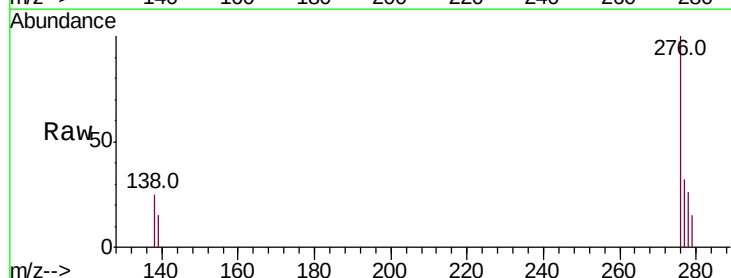
Tgt Ion:276 Resp: 11731

Ion Ratio Lower Upper

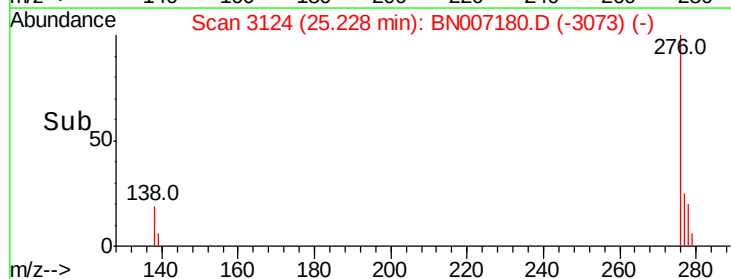
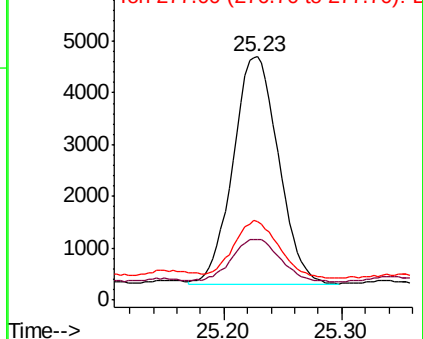
276 100

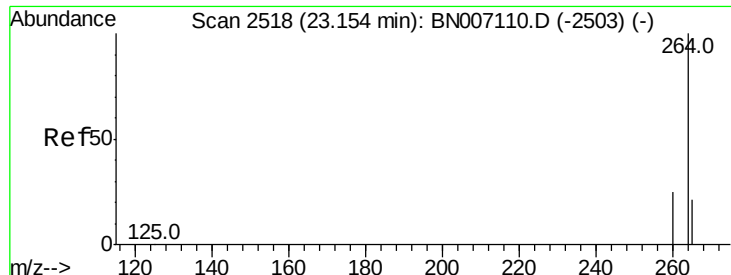
138 20.5 16.0 24.0

277 25.6 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



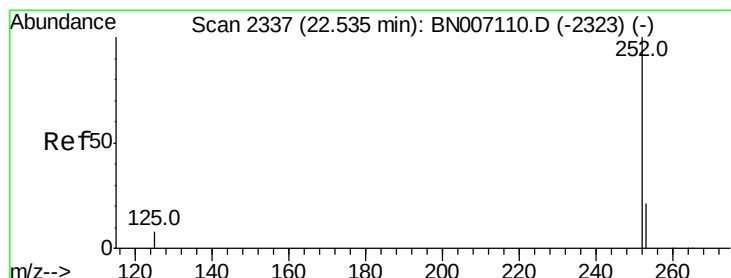
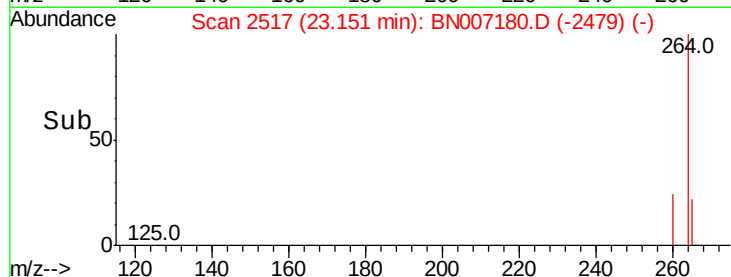
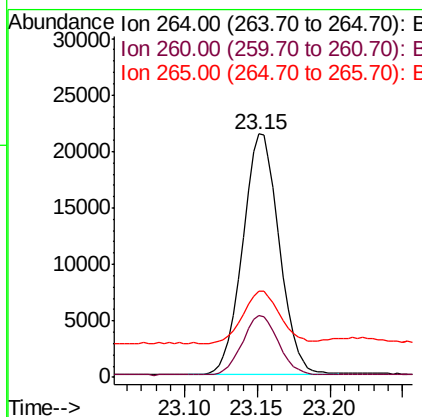
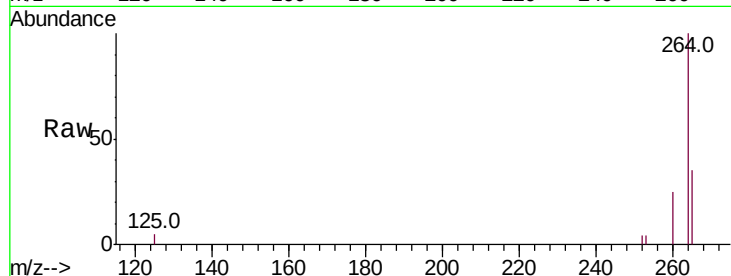


#32
Pervlene-d12
Concen: 0.400 ng
RT: 23.15 min Scan# 2517
Delta R.T. -0.02 min
Lab File: BN007180.D
Acq: 15 Aug 2019 01:18

Instrument :
BNA_N
ClientSampleId :

Tot Ion:264 Resp: 37269

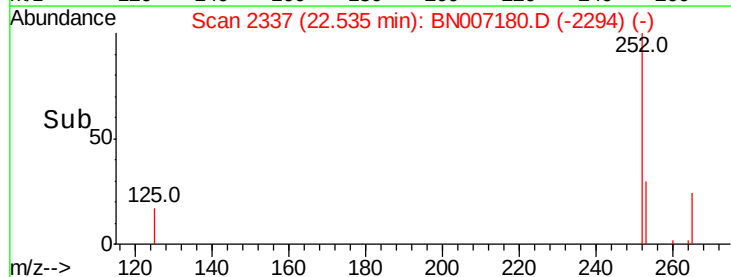
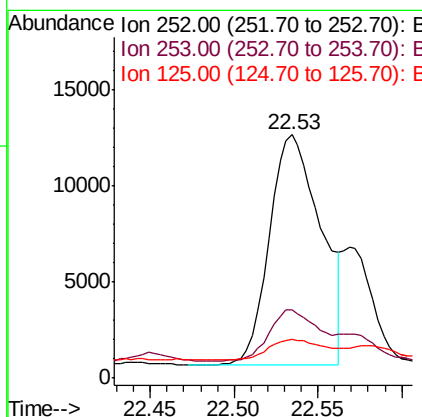
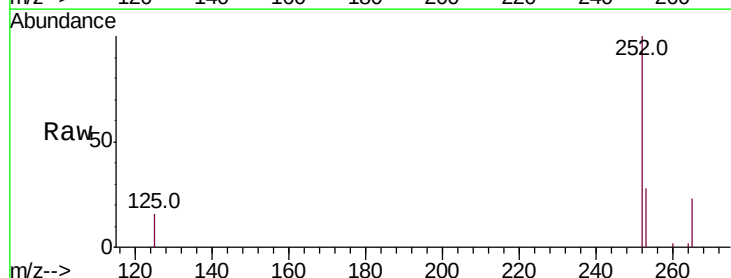
Ion	Ratio	Lower	Upper
264	100		
260	25.2	19.8	29.8
265	35.4	26.2	39.4

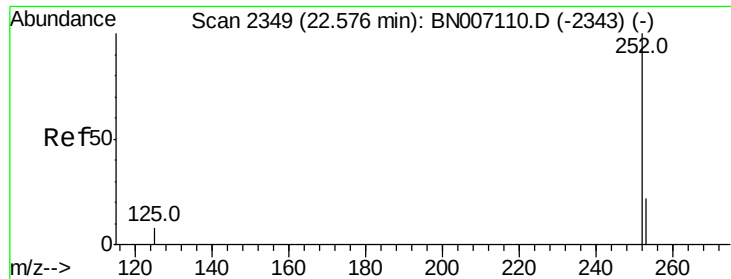


#33
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.53 min Scan# 2337
Delta R.T. -0.01 min
Lab File: BN007180.D
Acq: 15 Aug 2019 01:18

Tgt Ion:252 Resp: 25609

Ion	Ratio	Lower	Upper
252	100		
253	28.0	18.2	27.2#
125	15.9	7.4	11.0#





#34

Benzo(k)fluoranthene

Concen: 0.203 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.06 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

Instrument :

BNA_N

ClientSampleId :

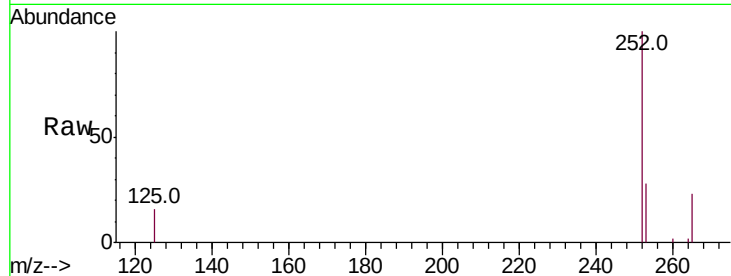
Tot Ion:252 Resp: 25609

Ion Ratio Lower Upper

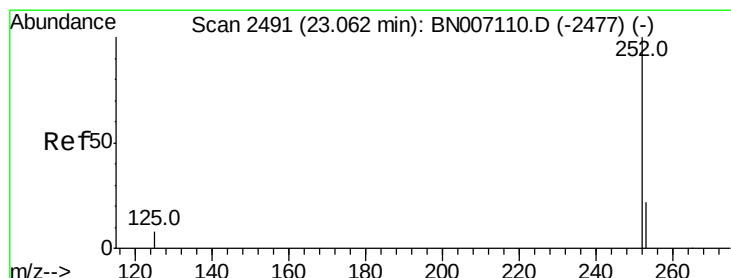
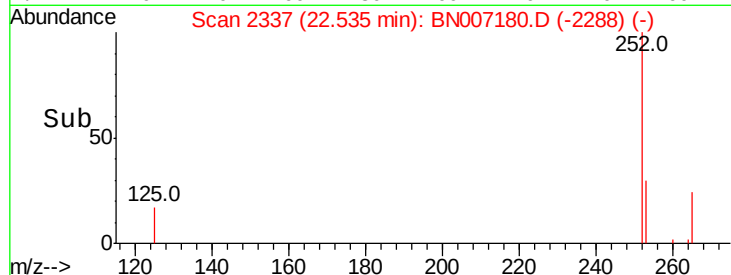
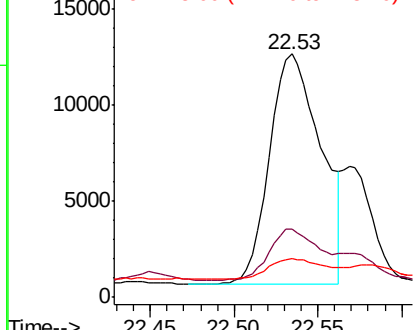
252 100

253 28.0 18.1 27.1#

125 15.9 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: 0.142 ng

RT: 23.06 min Scan# 2491

Delta R.T. -0.02 min

Lab File: BN007180.D

Acq: 15 Aug 2019 01:18

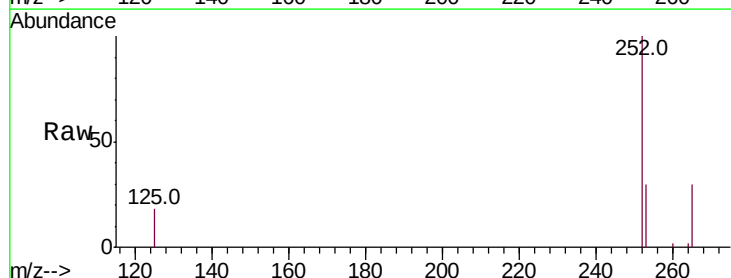
Tgt Ion:252 Resp: 16505

Ion Ratio Lower Upper

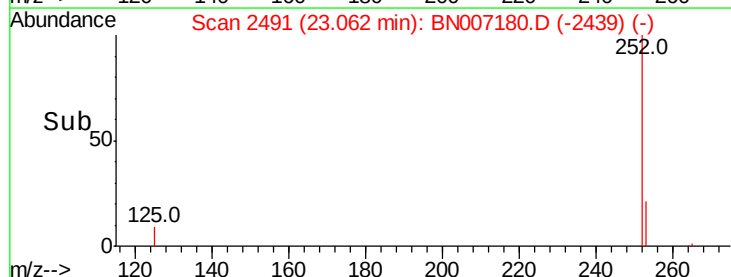
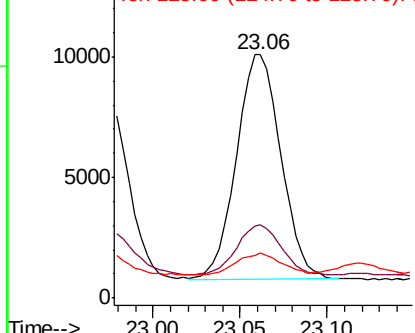
252 100

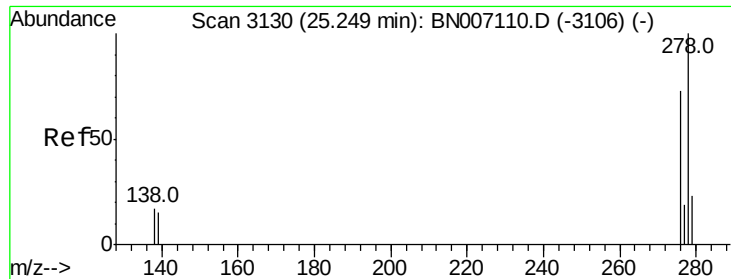
253 29.9 18.5 27.7#

125 18.3 8.2 12.4#



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



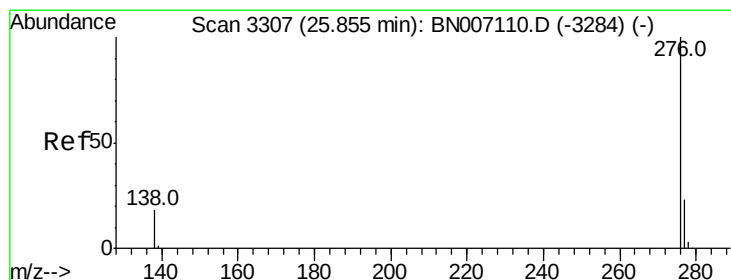
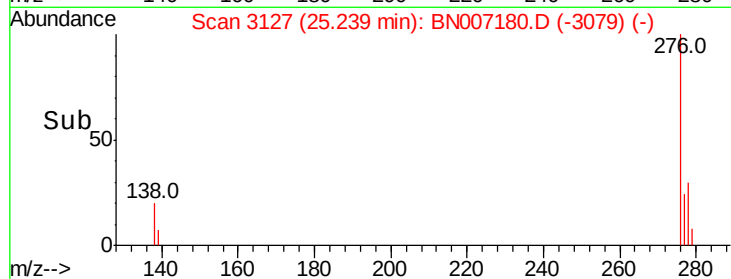
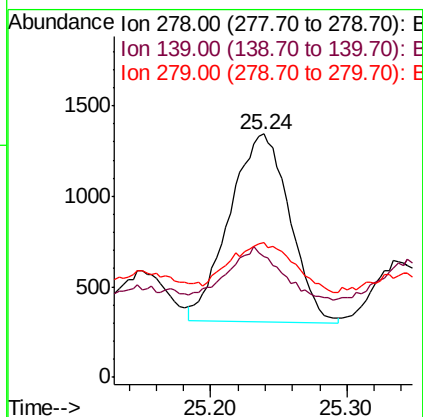
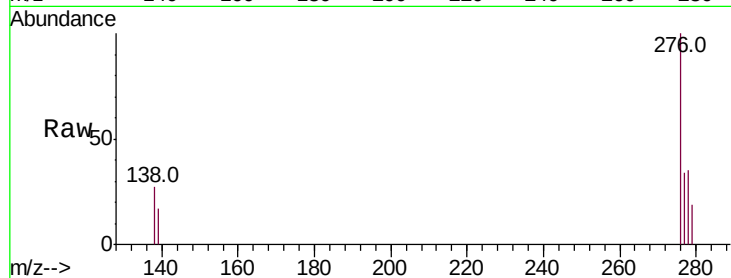


#36
Dibenzo(a,h)anthracene
Concen: 0.028 ng
RT: 25.24 min Scan# 3127
Delta R.T. -0.03 min
Lab File: BN007180.D
Acq: 15 Aug 2019 01:18

Instrument :
BNA_N
ClientSampleId :

Tot Ion:278 Resp: 3182

Ion	Ratio	Lower	Upper
278	100		
139	49.9	11.3	16.9#
279	55.5	19.3	28.9#



#37
Benzo(g,h,i)perylene
Concen: 0.106 ng
RT: 25.85 min Scan# 3307
Delta R.T. -0.02 min
Lab File: BN007180.D
Acq: 15 Aug 2019 01:18

Tgt Ion:276 Resp: 12552

Ion	Ratio	Lower	Upper
276	100		
277	31.6	19.8	29.8#
138	24.9	14.6	22.0#

