

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081419\
 Data File : BN007179.D
 Acq On : 15 Aug 2019 00:42
 Operator : HP/JU
 Sample : K4240-02
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 15 11:04:41 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	8312	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	30406	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	16003	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	36030	0.40	ng	0.00
26) Chrysene-d12	21.03	240	35303	0.40	ng	-0.02
32) Perylene-d12	23.15	264	41453	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	8363	0.42	ng	0.00
4) Phenol-d6	6.61	99	10728	0.43	ng	0.00
7) Nitrobenzene-d5	8.55	82	8874	0.36	ng	-0.01
10) 2-Methylnaphthalene-d10	11.79	152	17279	0.30	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2671	0.31	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	2470	0.11	ng	0.00
24) Fluoranthene-d10	18.86	212	32125	0.25	ng	0.00
28) Terphenyl-d14	19.48	244	23282	0.24	ng	-0.01

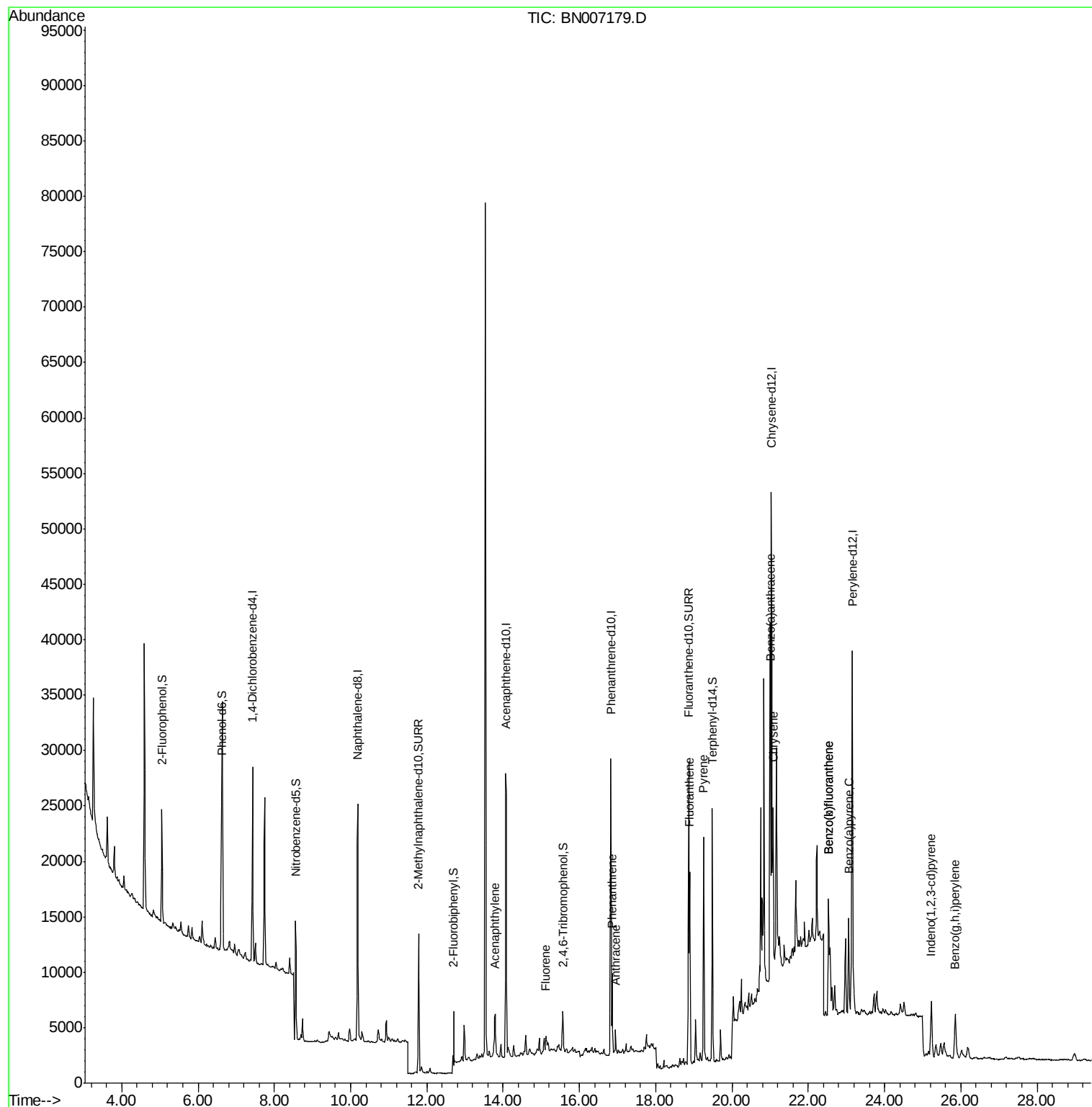
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) Acenaphthylene	13.79	152	9019	0.108	ng	98
17) Fluorene	15.12	166	1759	0.022	ng	# 62
22) Phenanthrene	16.87	178	8428	0.078	ng	97
23) Anthracene	16.95	178	1980	0.020	ng	# 84
25) Fluoranthene	18.89	202	16280	0.118	ng	100
27) Pyrene	19.26	202	18456	0.149	ng	# 93
29) Benzo(a)anthracene	21.02	228	12541	0.097	ng	# 75
30) Chrysene	21.08	228	14120	0.113	ng	# 92
31) Indeno(1,2,3-cd)pyrene	25.23	276	7566	0.055	ng	98
33) Benzo(b)fluoranthene	22.53	252	17322	0.122	ng	# 80
34) Benzo(k)fluoranthene	22.53	252	17322	0.123	ng	# 80
35) Benzo(a)pyrene	23.06	252	11081	0.086	ng	# 75
37) Benzo(a,h,i)perylene	25.85	276	7728	0.058	ng	# 76

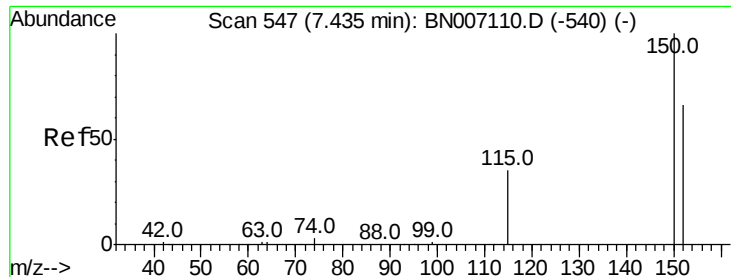
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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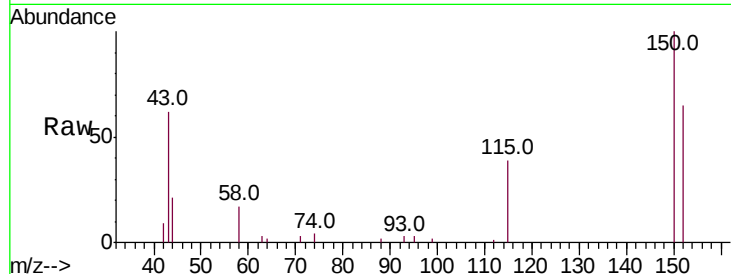


#1

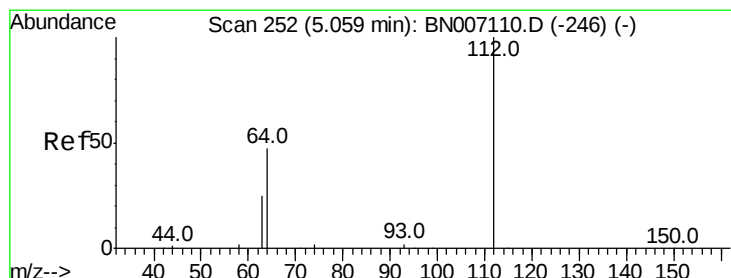
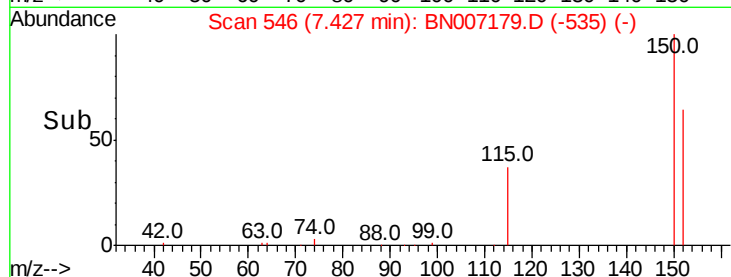
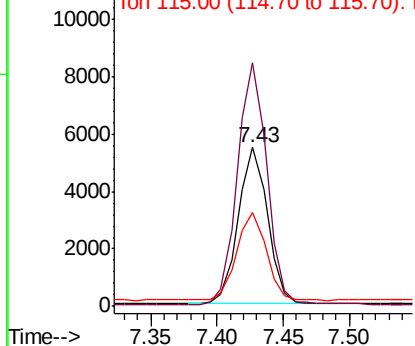
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007179.D
Acq: 15 Aug 2019 00:42

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 8312
Ion Ratio Lower Upper
152 100
150 153.4 121.7 182.5
115 59.4 46.2 69.4



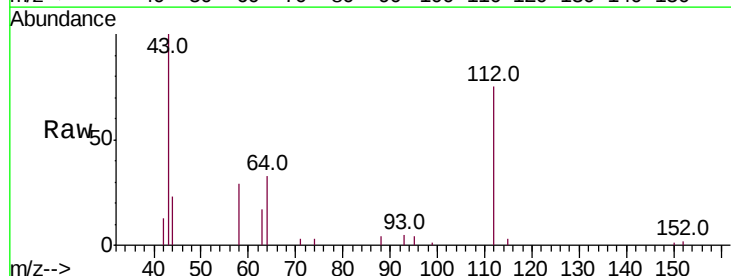
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



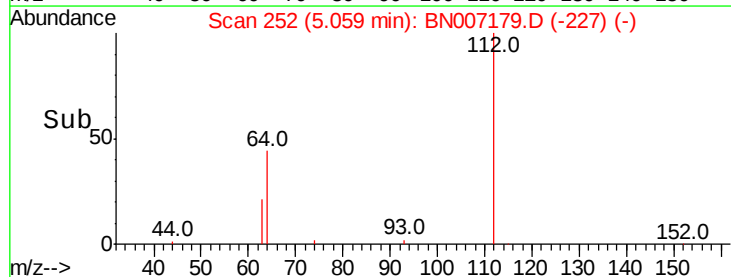
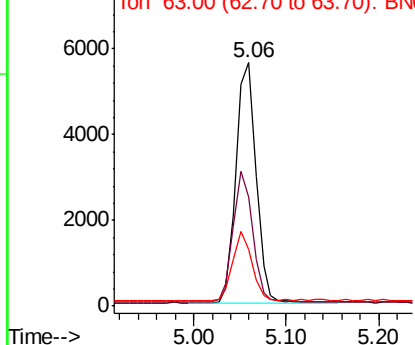
#3

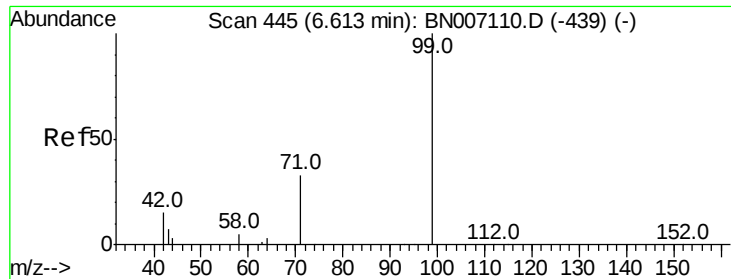
2-Fluorophenol
Concen: 0.419 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007179.D
Acq: 15 Aug 2019 00:42

Tgt Ion:112 Resp: 8363
Ion Ratio Lower Upper
112 100
64 52.9 42.6 63.8
63 27.8 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: 0.434 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007179.D

Acq: 15 Aug 2019 00:42

Instrument :

BNA_N

ClientSampleId :

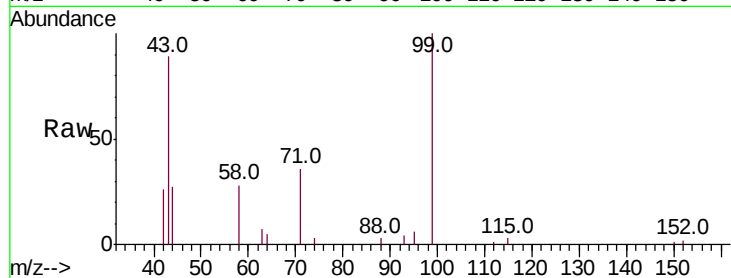
Tot Ion: 99 Resp: 10728

Ion Ratio Lower Upper

99 100

42 28.9 15.8 23.6#

71 34.2 27.0 40.4

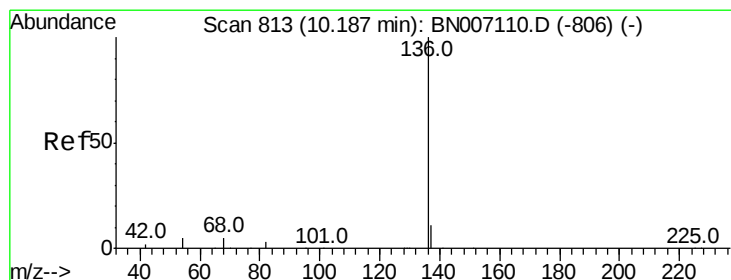
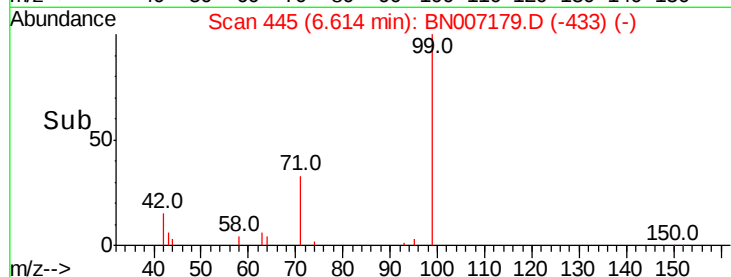
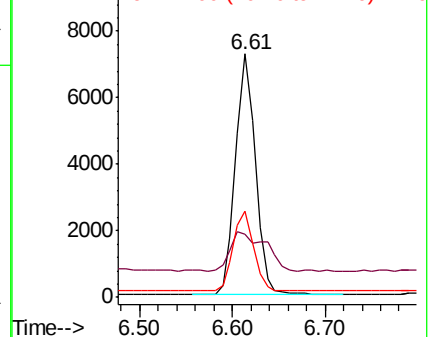


Abundance

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: BN007179.D

Acq: 15 Aug 2019 00:42

Tgt Ion: 136 Resp: 30406

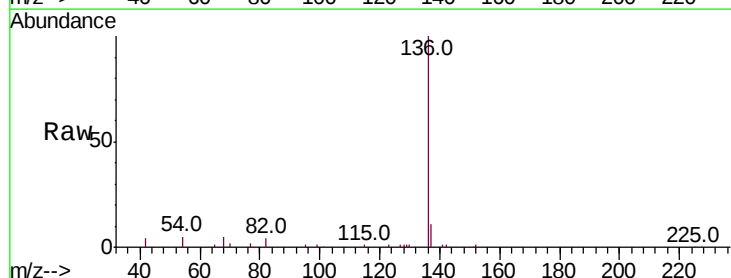
Ion Ratio Lower Upper

136 100

137 11.4 9.4 14.0

54 4.9 6.6 9.8#

68 4.9 6.0 9.0#



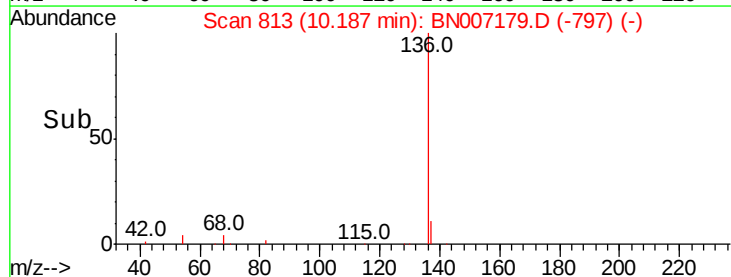
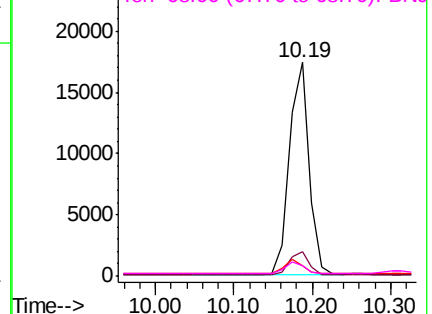
Abundance

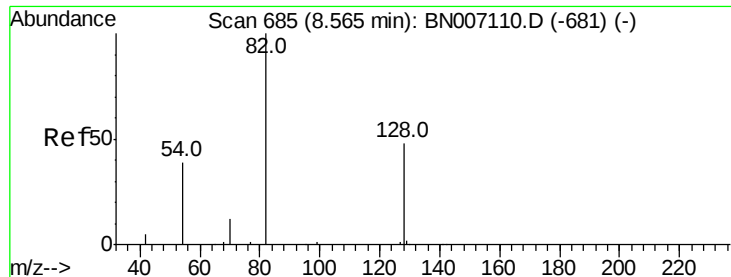
Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

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: 0.362 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007179.D

Acq: 15 Aug 2019 00:42

Instrument :

BNA_N

ClientSampleId :

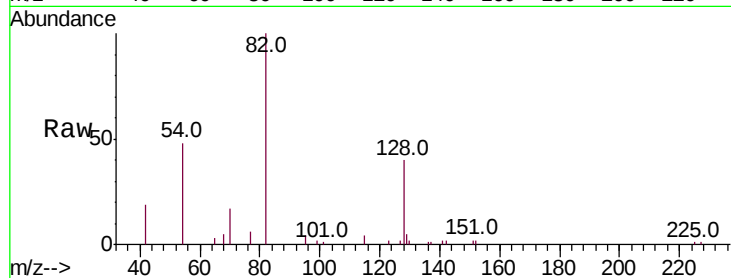
Tot Ion: 82 Resp: 8874

Ion Ratio Lower Upper

82 100

128 39.6 34.6 51.8

54 48.4 36.2 54.4



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

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

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

8.55

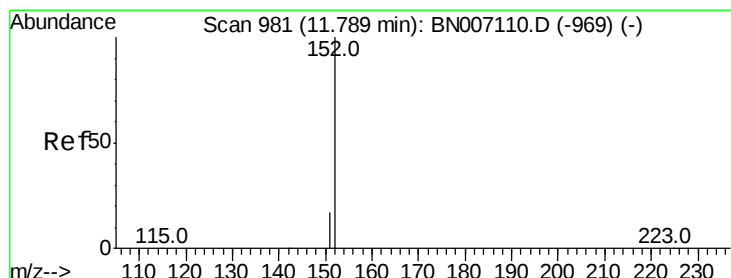
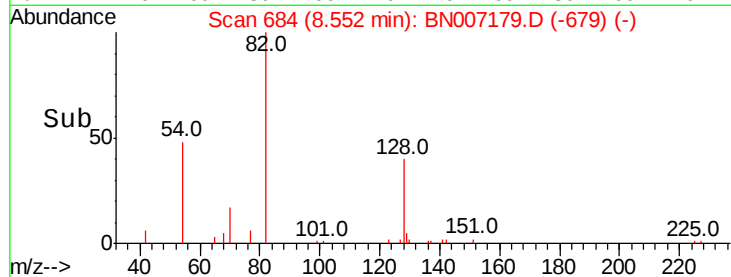
4000

2000

0

8.50 8.55 8.60 8.65

Time-->



#10

2-Methylnaphthalene-d10

Concen: 0.305 ng

RT: 11.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BN007179.D

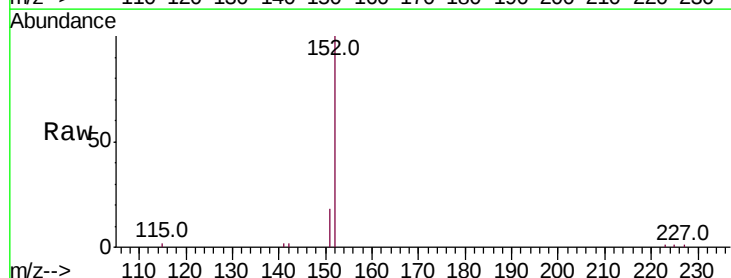
Acq: 15 Aug 2019 00:42

Tgt Ion: 152 Resp: 17279

Ion Ratio Lower Upper

152 100

151 19.2 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) (-)

11.79

12000

10000

8000

6000

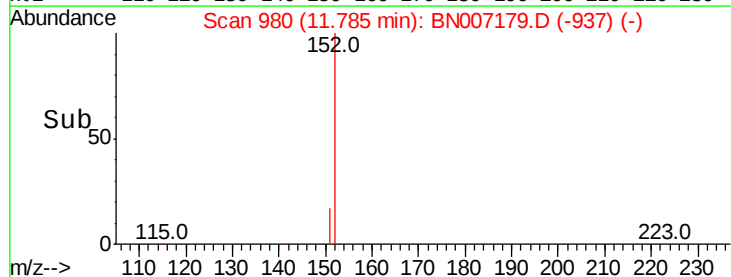
4000

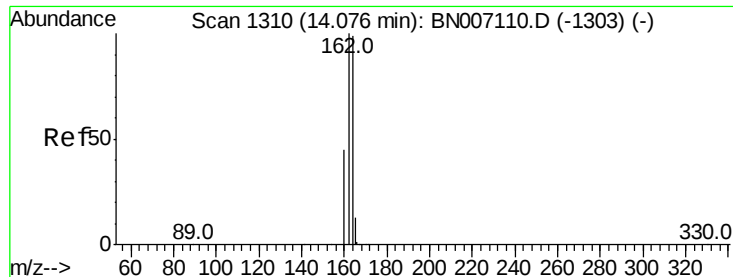
2000

0

11.70 11.80 11.90

Time-->





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007179.D

Acq: 15 Aug 2019 00:42

Instrument :

BNA_N

ClientSampled :

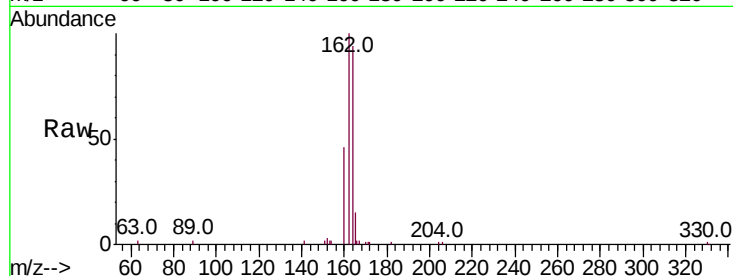
Tot Ion:164 Resp: 16003

Ion Ratio Lower Upper

164 100

162 106.3 82.2 123.4

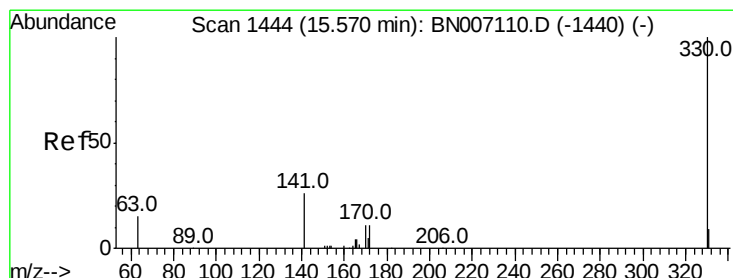
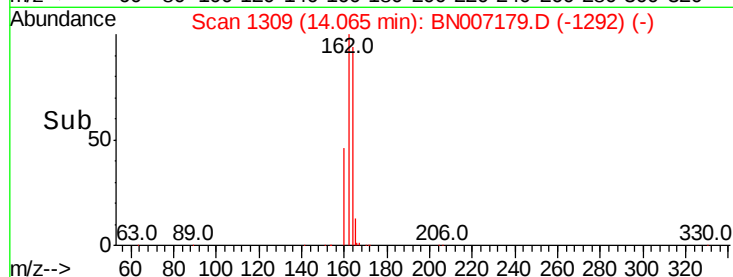
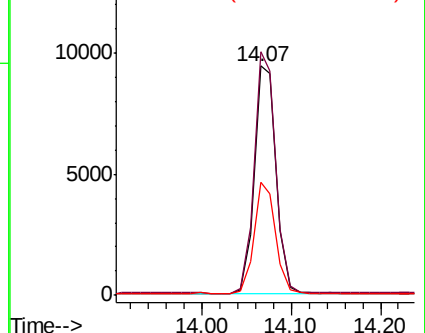
160 49.3 38.3 57.5



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: 0.310 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007179.D

Acq: 15 Aug 2019 00:42

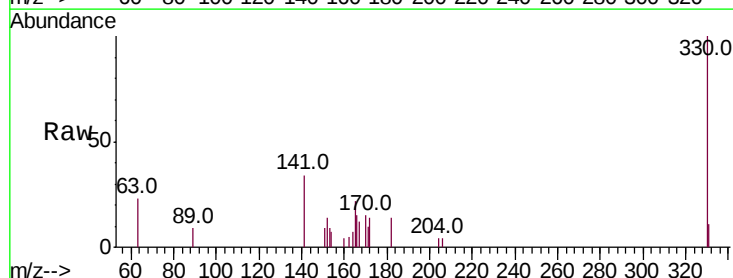
Tgt Ion:330 Resp: 2671

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

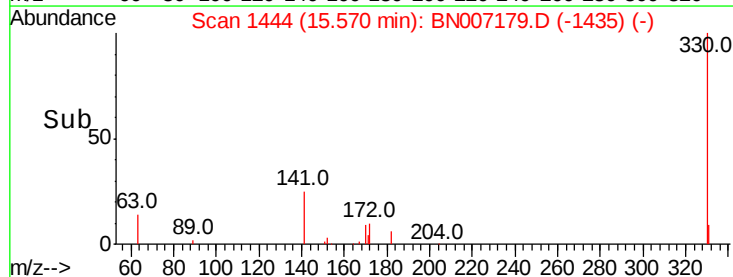
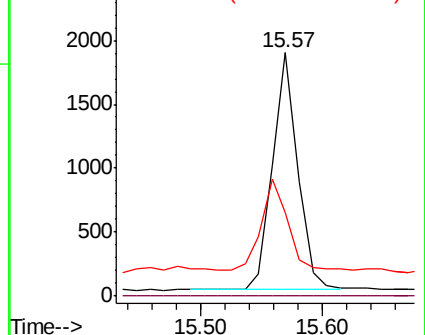
141 39.8 33.6 50.4

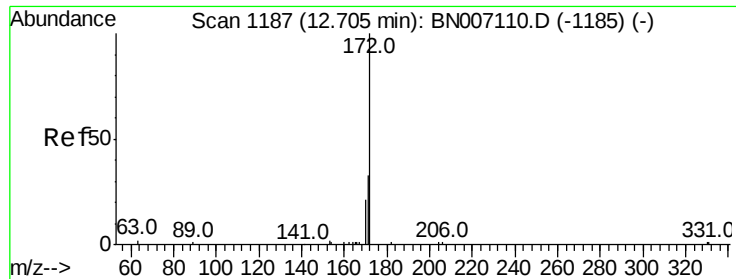


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

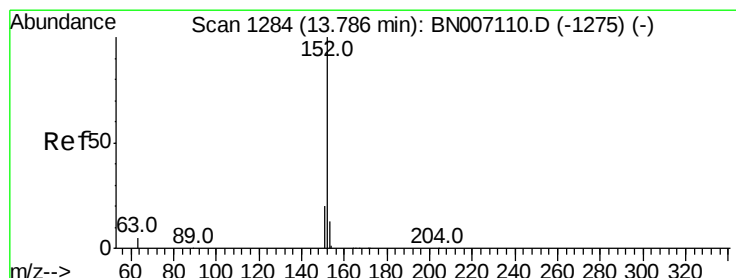
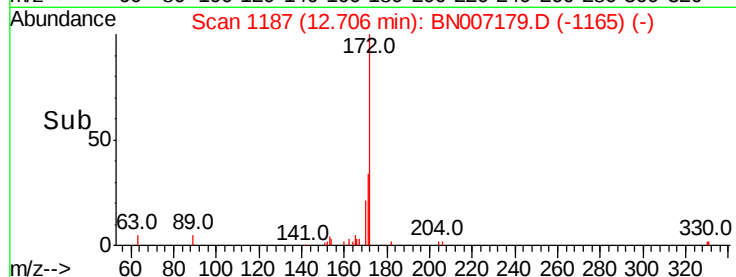
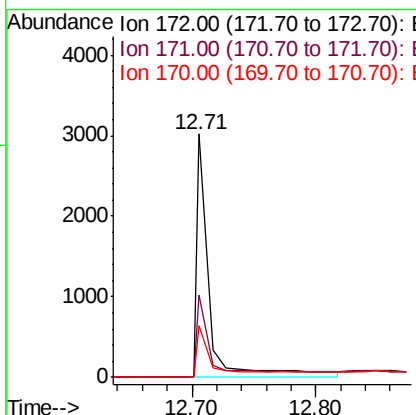
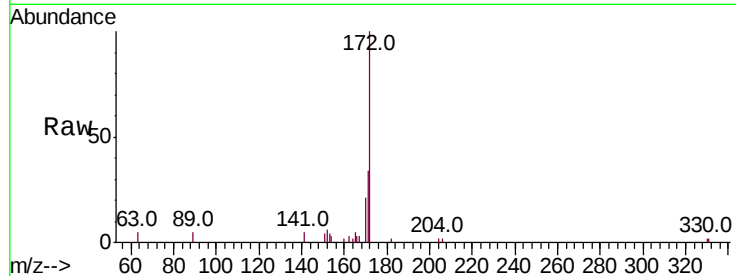




#14
2-Fluorobiphenyl
Concen: 0.106 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007179.D
Acq: 15 Aug 2019 00:42

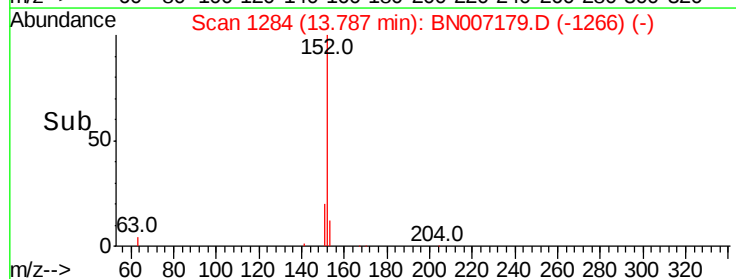
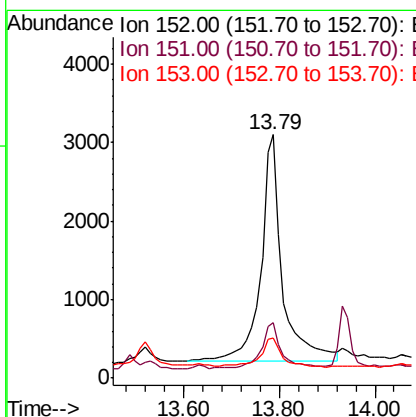
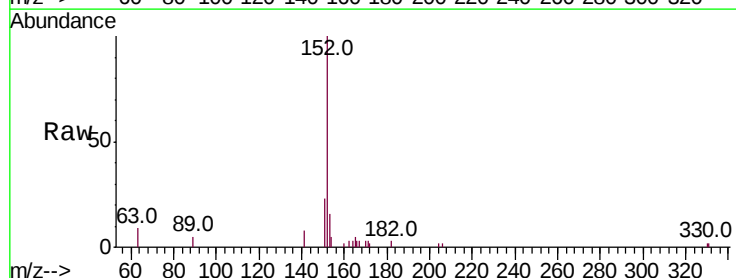
Instrument :
BNA_N
ClientSampleId :

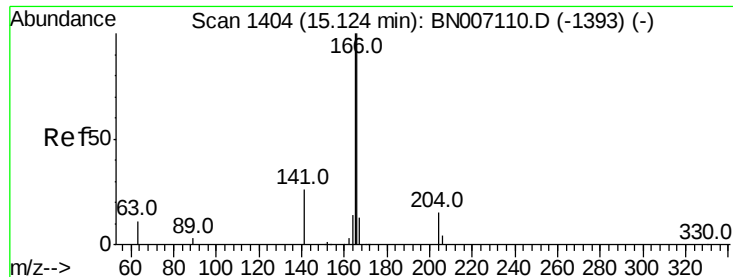
Tot Ion:172 Resp: 2470
Ion Ratio Lower Upper
172 100
171 34.0 26.3 39.5
170 21.2 17.0 25.4



#15
Acenaphthylene
Concen: 0.108 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007179.D
Acq: 15 Aug 2019 00:42

Tgt Ion:152 Resp: 9019
Ion Ratio Lower Upper
152 100
151 18.4 15.8 23.6
153 12.8 10.4 15.6

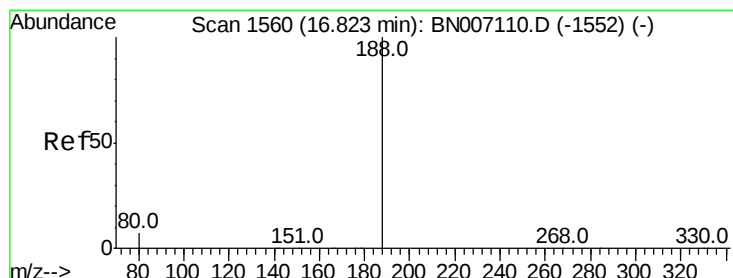
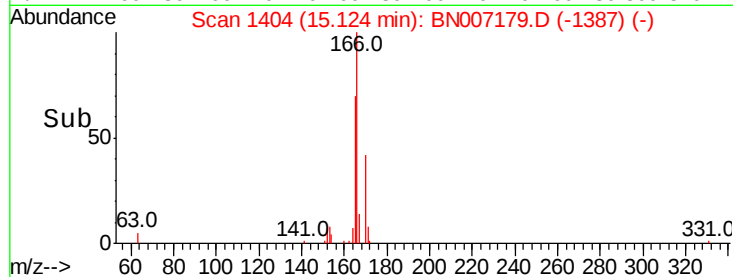
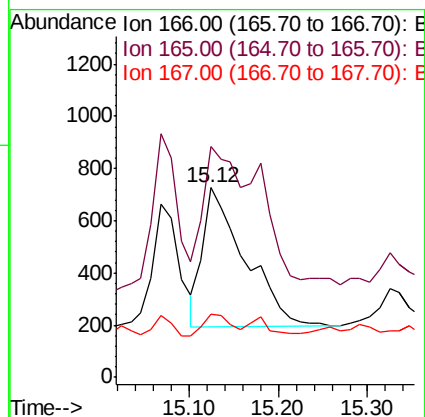
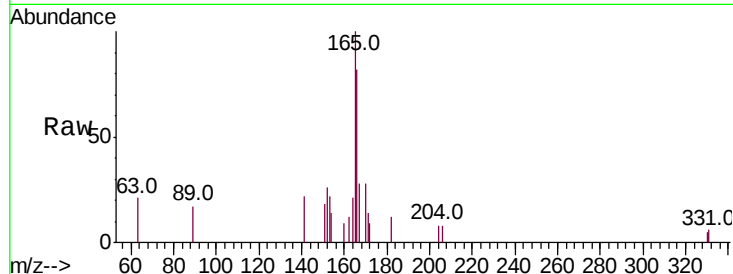




#17
Fluorene
 Concen: 0.022 ng
 RT: 15.12 min Scan# 1404
 Delta R.T. -0.01 min
 Lab File: BN007179.D
 Acq: 15 Aug 2019 00:42

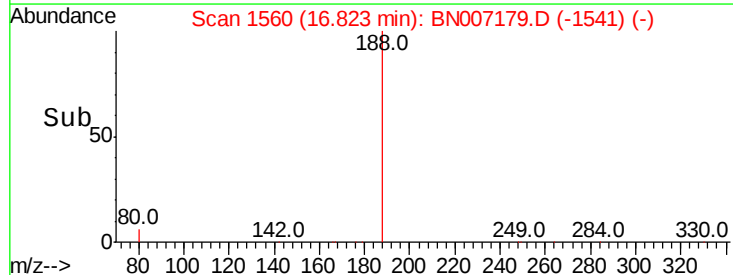
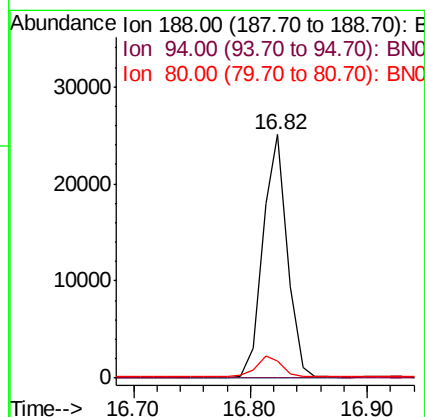
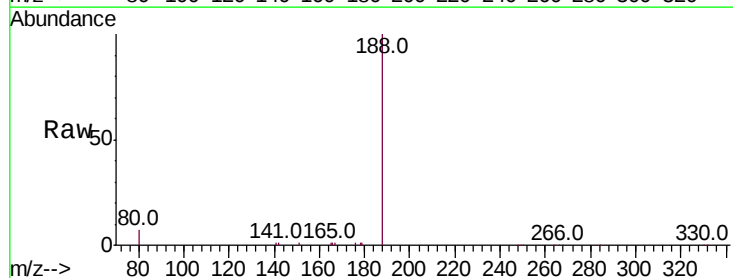
Instrument :
 BNA_N
 ClientSampleId :

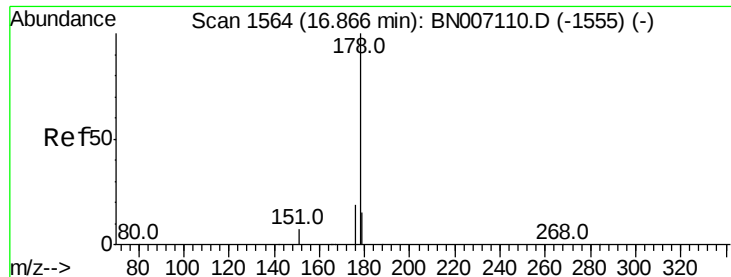
Tot Ion:166 Resp: 1759
 Ion Ratio Lower Upper
 166 100
 165 139.1 77.9 116.9#
 167 10.1 10.9 16.3#



#18
Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.82 min Scan# 1560
 Delta R.T. -0.00 min
 Lab File: BN007179.D
 Acq: 15 Aug 2019 00:42

Tgt Ion:188 Resp: 36030
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 6.9 7.8 11.6#





#22

Phenanthrene

Concen: 0.078 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007179.D

Acq: 15 Aug 2019 00:42

Instrument :

BNA_N

ClientSampleId :

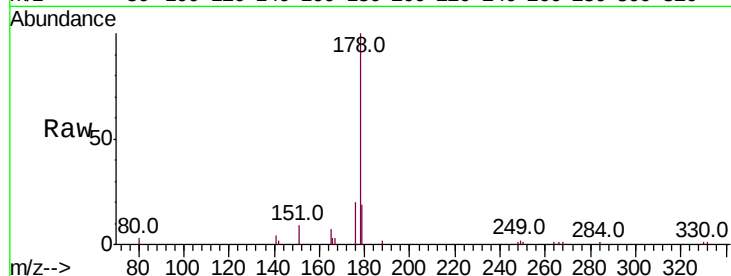
Tot Ion:178 Resp: 8428

Ion Ratio Lower Upper

178 100

176 18.7 15.2 22.8

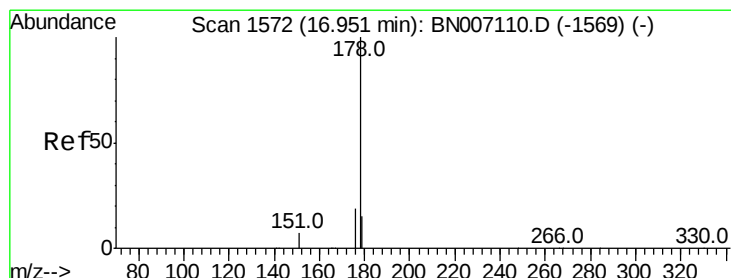
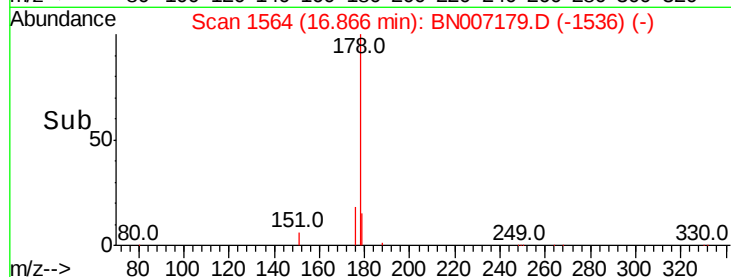
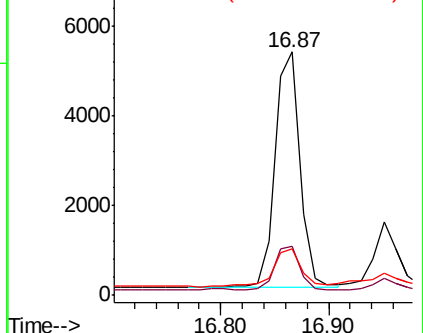
179 17.8 12.3 18.5



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#23

Anthracene

Concen: 0.020 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007179.D

Acq: 15 Aug 2019 00:42

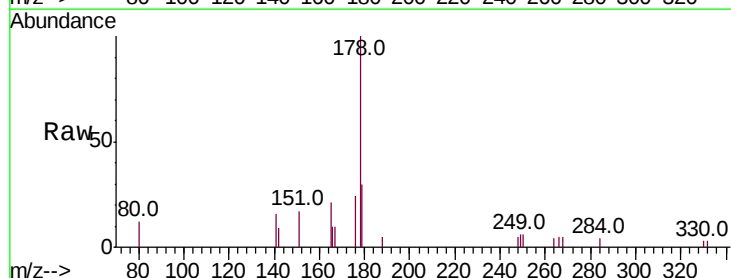
Tgt Ion:178 Resp: 1980

Ion Ratio Lower Upper

178 100

176 20.9 14.6 21.8

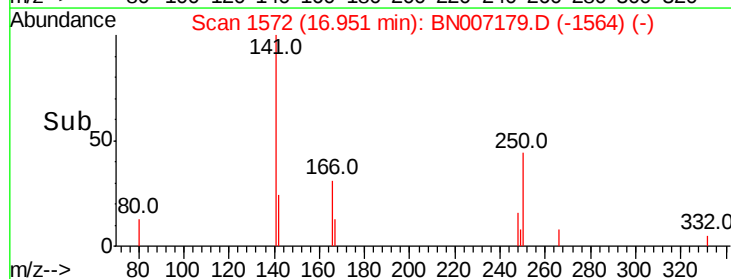
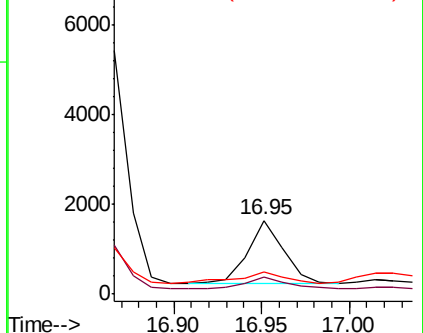
179 27.1 12.5 18.7#

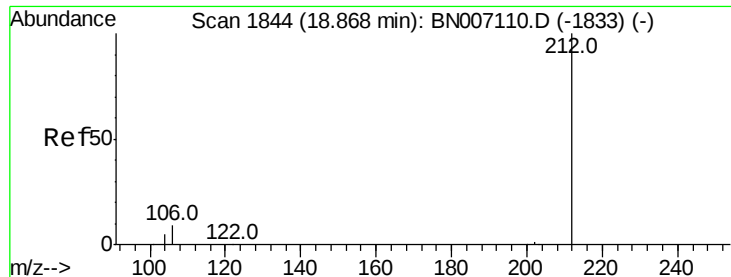


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Fluoranthene-d10

Concen: 0.251 ng

RT: 18.86 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BN007179.D

Acq: 15 Aug 2019 00:42

Instrument :

BNA_N

ClientSampleId :

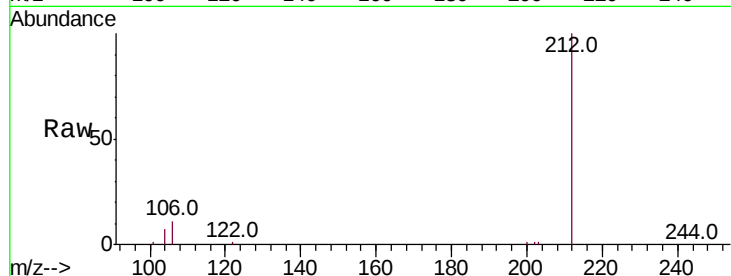
Tot Ion:212 Resp: 32125

Ion Ratio Lower Upper

212 100

106 10.5 8.2 12.2

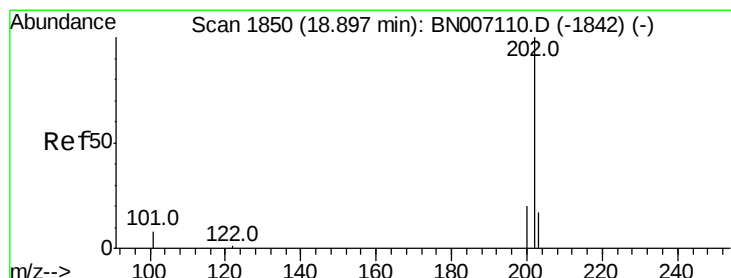
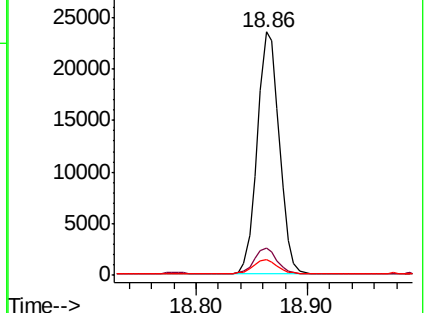
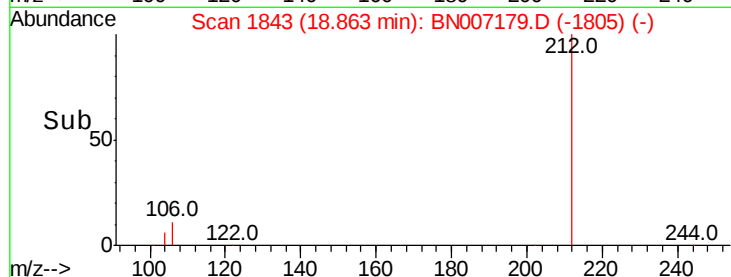
104 6.0 4.5 6.7



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: 0.118 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007179.D

Acq: 15 Aug 2019 00:42

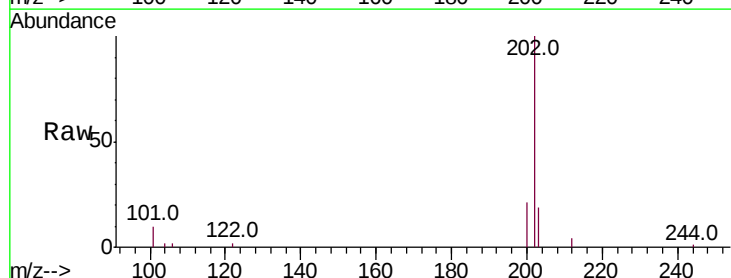
Tgt Ion:202 Resp: 16280

Ion Ratio Lower Upper

202 100

101 9.0 7.0 10.4

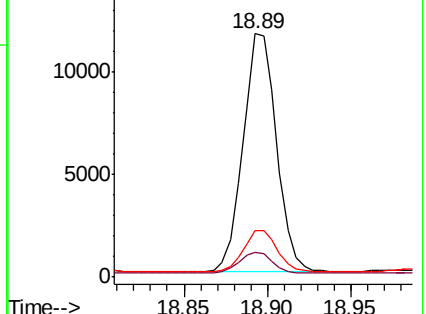
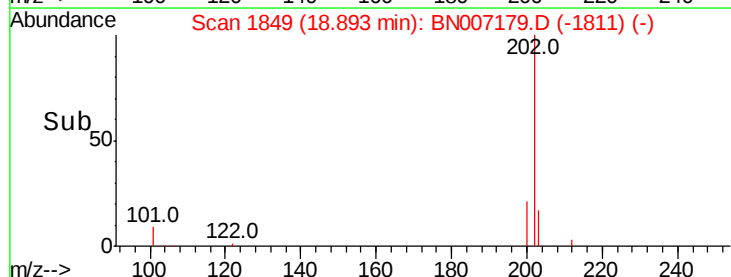
203 17.2 13.8 20.8

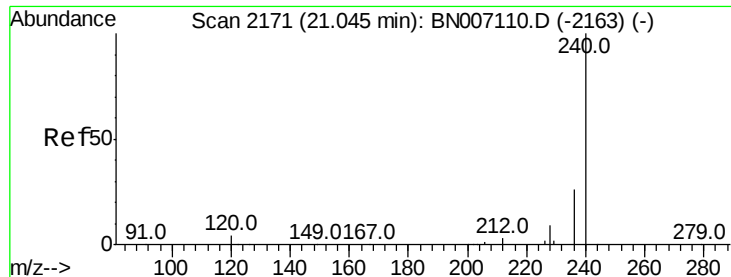


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

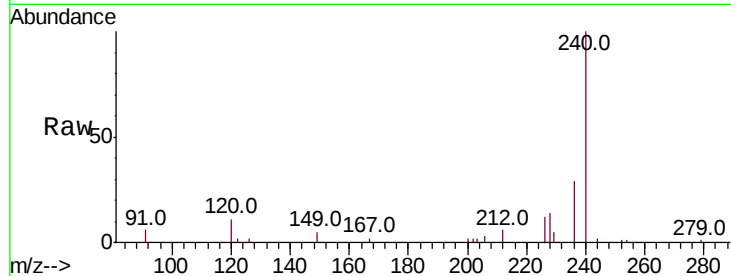




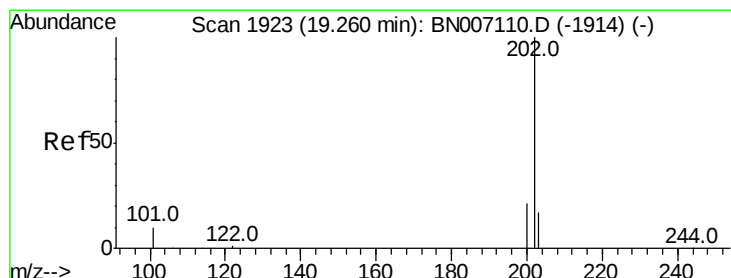
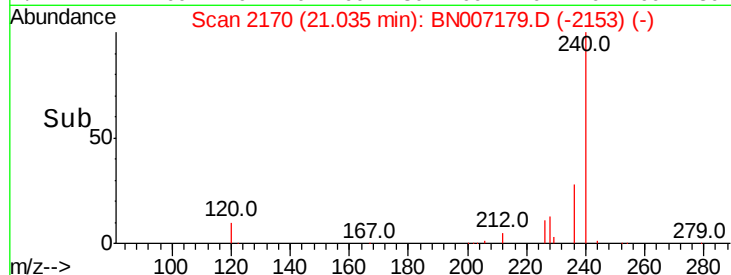
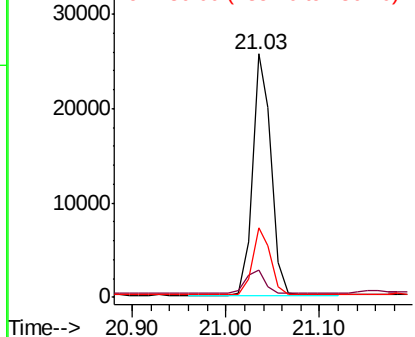
#26
Chrysene-d12
Concen: 0.400 ng
RT: 21.03 min Scan# 2170
Delta R.T. -0.02 min
Lab File: BN007179.D
Acq: 15 Aug 2019 00:42

Instrument :
BNA_N
ClientSampleId :

Tot Ion:240 Resp: 35303
Ion Ratio Lower Upper
240 100
120 11.5 4.0 6.0#
236 28.5 21.3 31.9

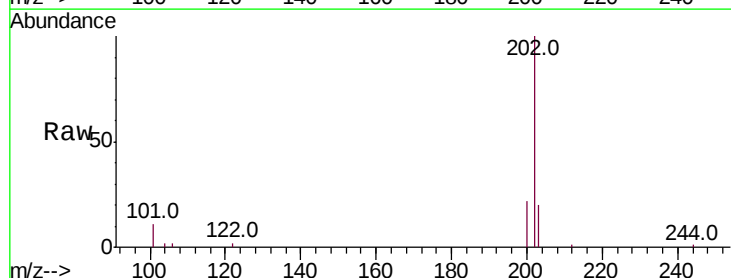


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

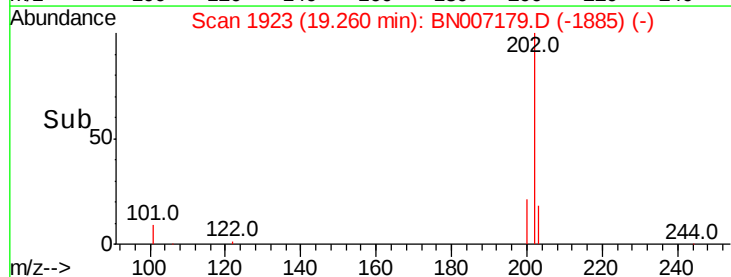
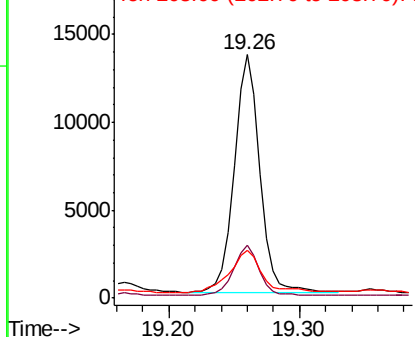


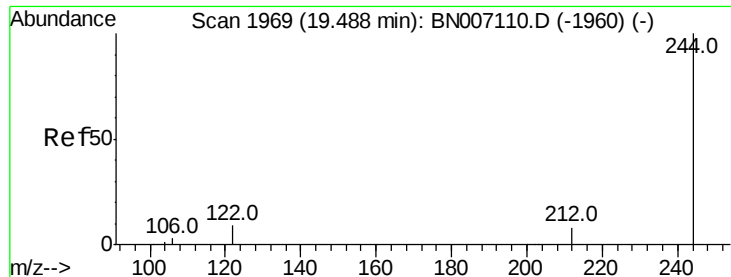
#27
Pyrene
Concen: 0.149 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007179.D
Acq: 15 Aug 2019 00:42

Tgt Ion:202 Resp: 18456
Ion Ratio Lower Upper
202 100
200 21.5 16.6 24.8
203 22.9 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: 0.242 ng

RT: 19.48 min Scan# 1968

Delta R.T. -0.01 min

Lab File: BN007179.D

Acq: 15 Aug 2019 00:42

Instrument :

BNA_N

ClientSampled :

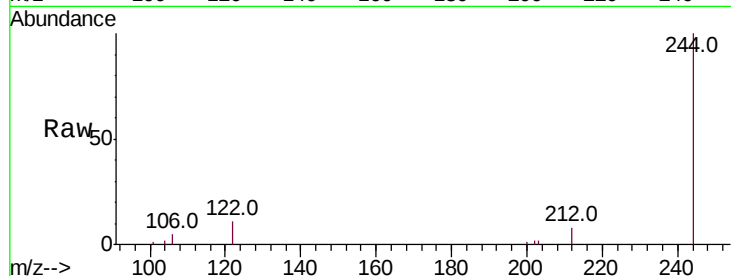
Tot Ion:244 Resp: 23282

Ion Ratio Lower Upper

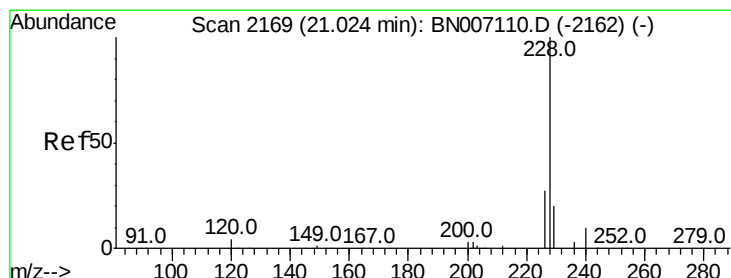
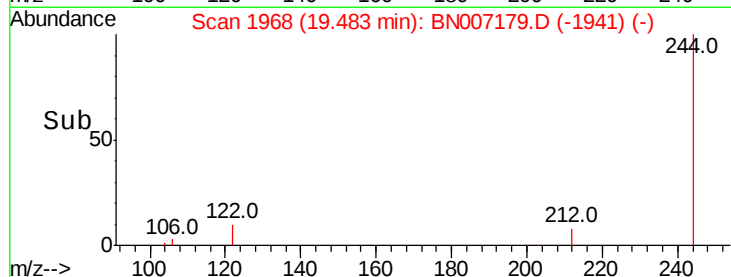
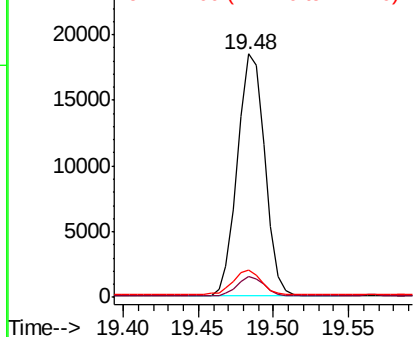
244 100

212 8.5 6.2 9.2

122 11.4 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: 0.097 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007179.D

Acq: 15 Aug 2019 00:42

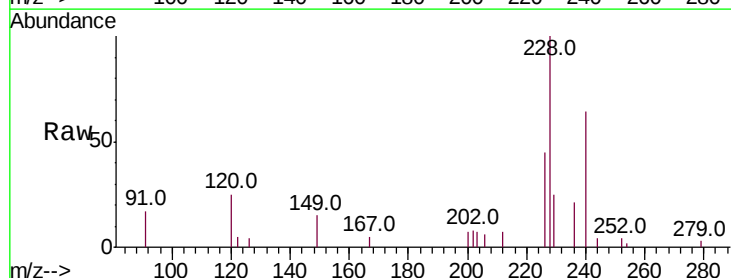
Tgt Ion:228 Resp: 12541

Ion Ratio Lower Upper

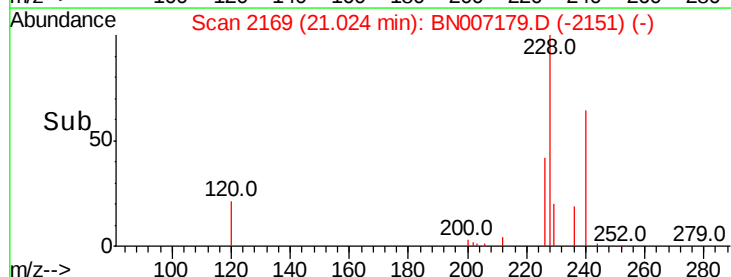
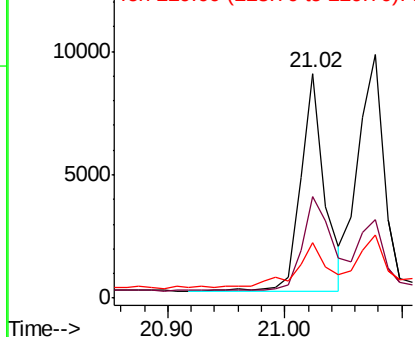
228 100

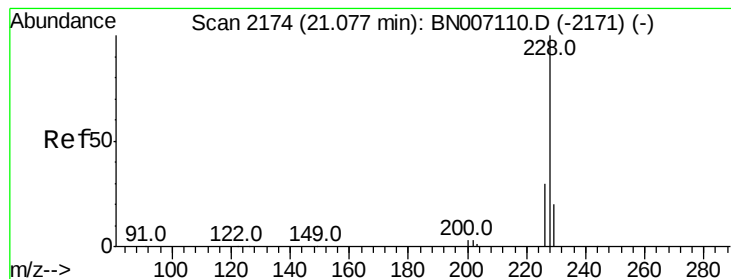
226 45.2 21.8 32.6#

229 24.6 15.6 23.4#



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#30

Chrysene

Concen: 0.113 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007179.D

Acq: 15 Aug 2019 00:42

Instrument :

BNA_N

ClientSampleId :

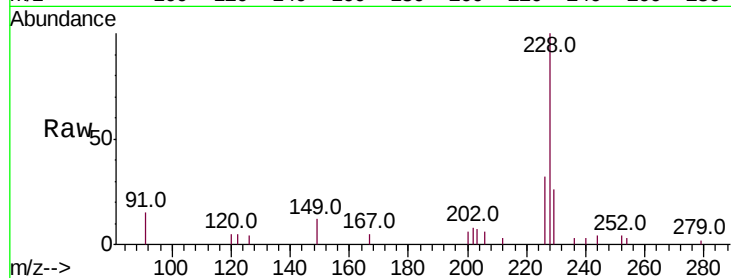
Tot Ion:228 Resp: 14120

Ion Ratio Lower Upper

228 100

226 32.5 23.8 35.6

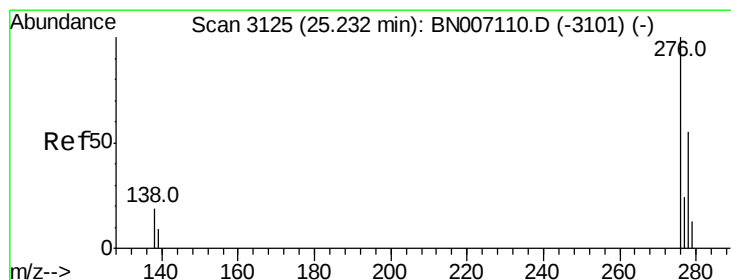
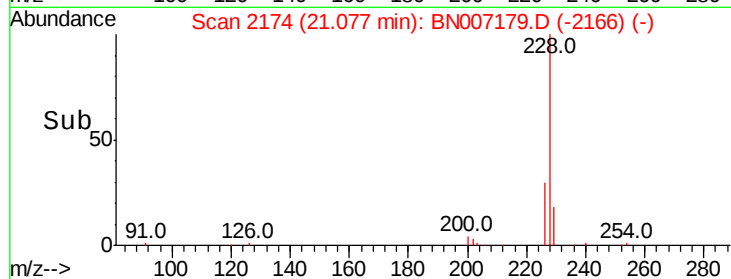
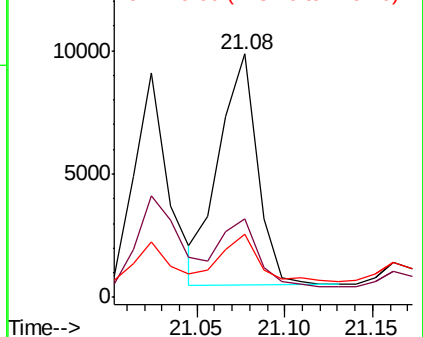
229 25.7 15.7 23.5#



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: 0.055 ng

RT: 25.23 min Scan# 3123

Delta R.T. -0.03 min

Lab File: BN007179.D

Acq: 15 Aug 2019 00:42

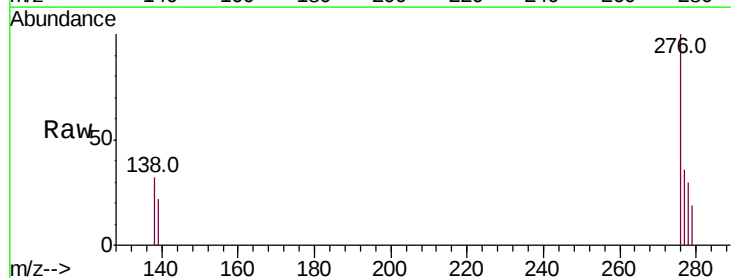
Tgt Ion:276 Resp: 7566

Ion Ratio Lower Upper

276 100

138 21.2 16.0 24.0

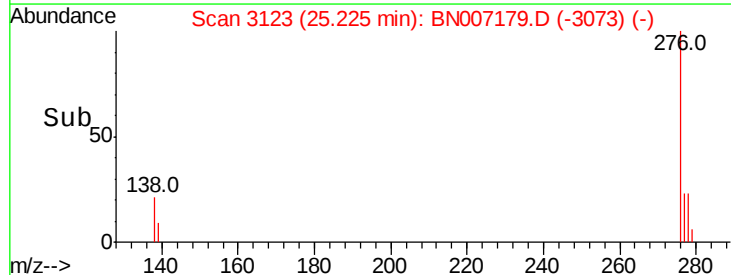
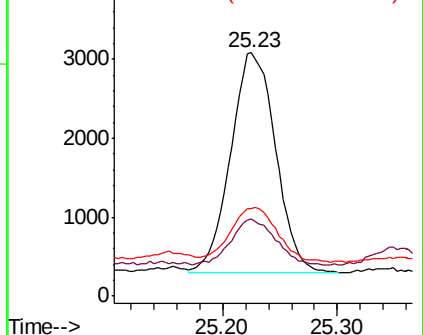
277 25.7 19.9 29.9

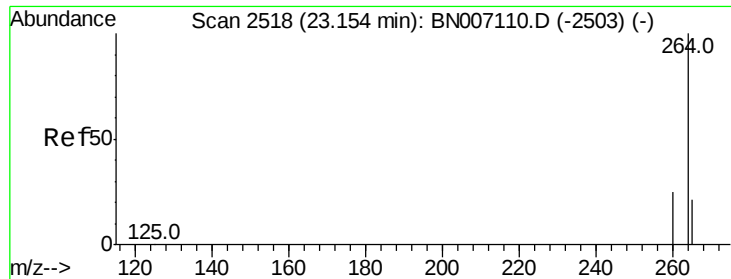


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



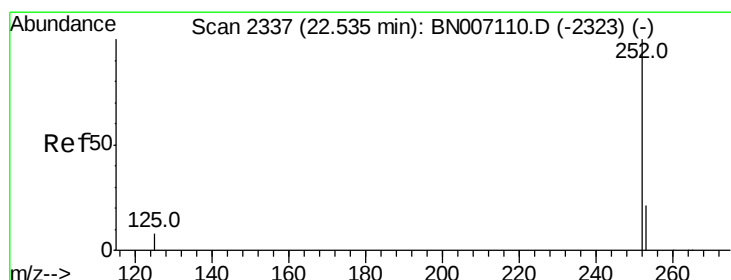
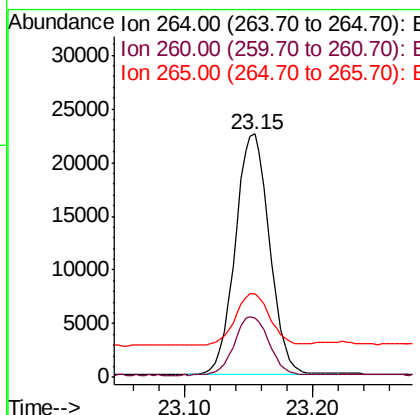
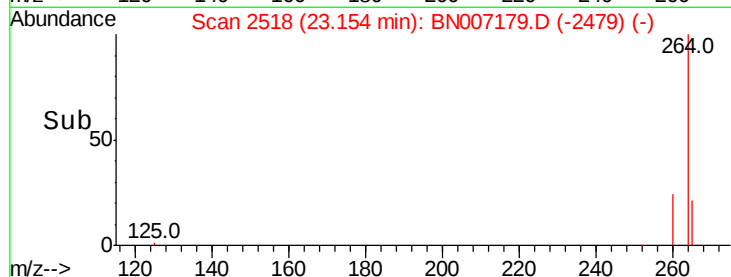
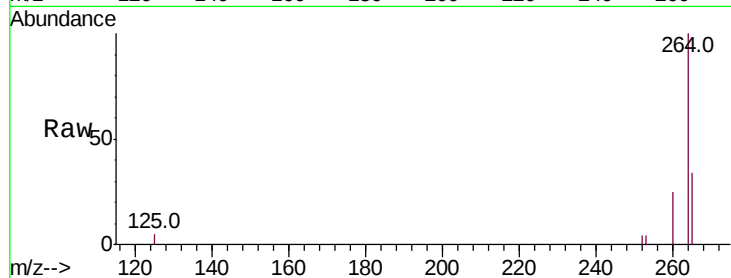


#32
Pervlene-d12
Concen: 0.400 ng
RT: 23.15 min Scan# 2518
Delta R.T. -0.02 min
Lab File: BN007179.D
Acq: 15 Aug 2019 00:42

Instrument :
BNA_N
ClientSampleId :

Tot Ion:264 Resp: 41453

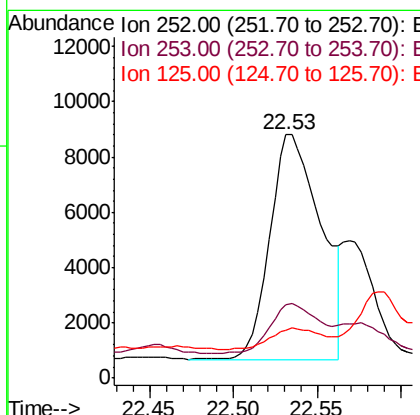
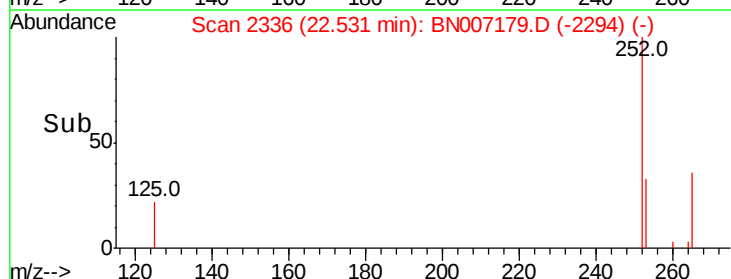
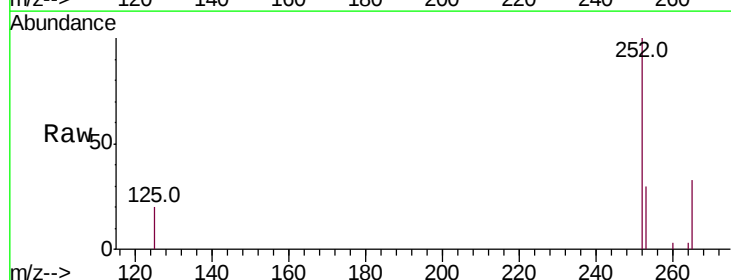
Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.8	29.8
265	34.3	26.2	39.4

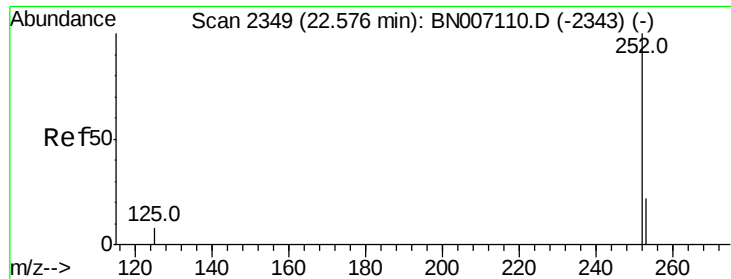


#33
Benzo(b)fluoranthene
Concen: 0.122 ng
RT: 22.53 min Scan# 2336
Delta R.T. -0.02 min
Lab File: BN007179.D
Acq: 15 Aug 2019 00:42

Tgt Ion:252 Resp: 17322

Ion	Ratio	Lower	Upper
252	100		
253	30.3	18.2	27.2#
125	19.8	7.4	11.0#

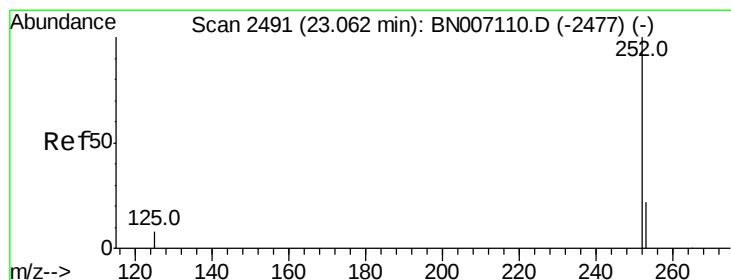
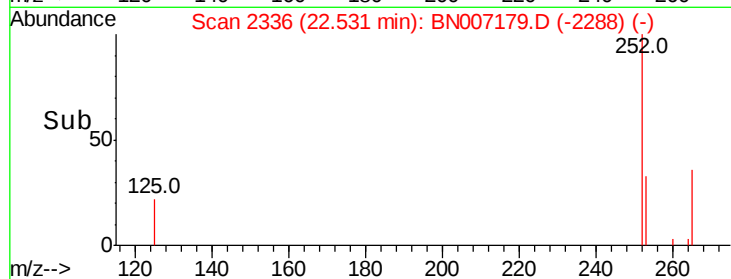
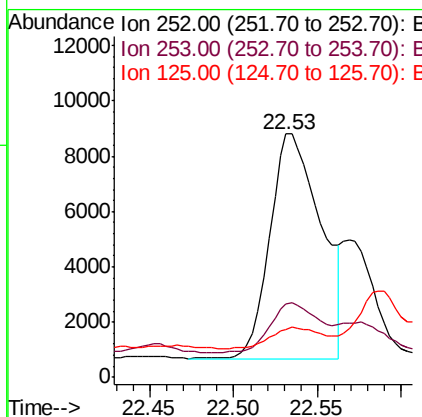
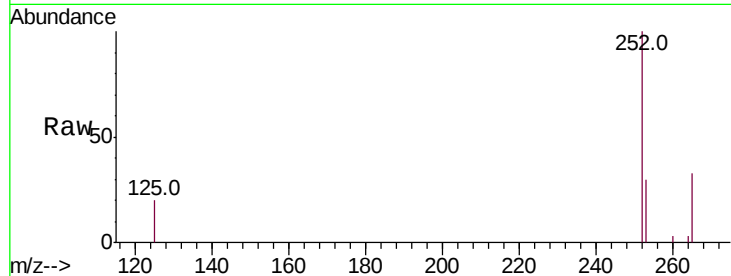




#34
Benzo(k)fluoranthene
Concen: 0.123 ng
RT: 22.53 min Scan# 2336
Delta R.T. -0.06 min
Lab File: BN007179.D
Acq: 15 Aug 2019 00:42

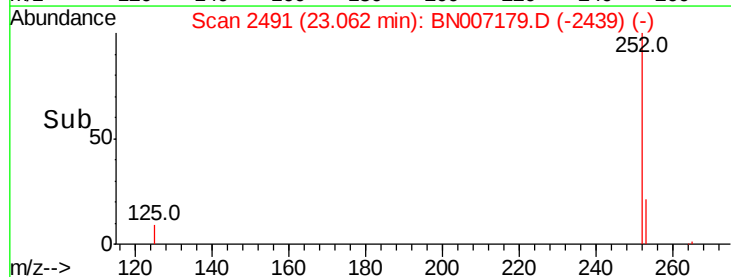
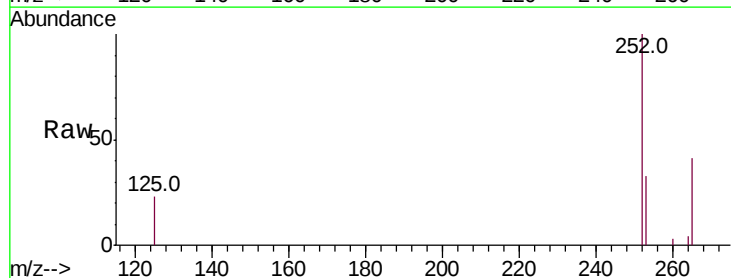
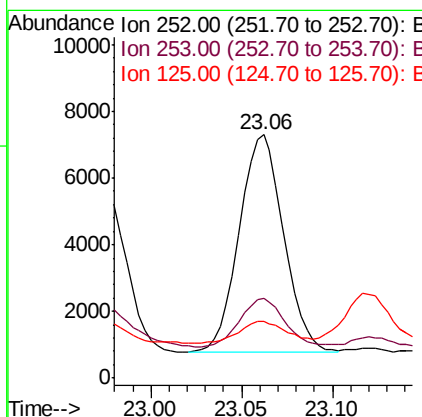
Instrument :
BNA_N
ClientSampleId :

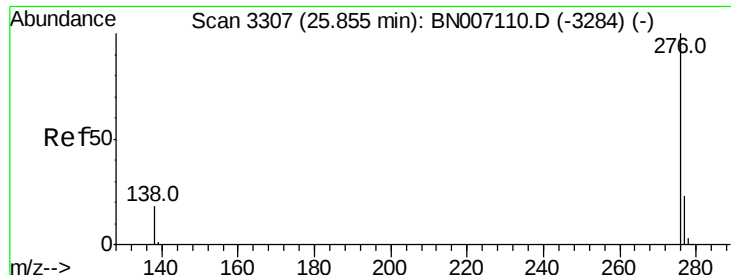
Tot Ion:252 Resp: 17322
Ion Ratio Lower Upper
252 100
253 30.3 18.1 27.1#
125 19.8 7.4 11.0#



#35
Benzo(a)pyrene
Concen: 0.086 ng
RT: 23.06 min Scan# 2491
Delta R.T. -0.02 min
Lab File: BN007179.D
Acq: 15 Aug 2019 00:42

Tgt Ion:252 Resp: 11081
Ion Ratio Lower Upper
252 100
253 33.0 18.5 27.7#
125 23.2 8.2 12.4#

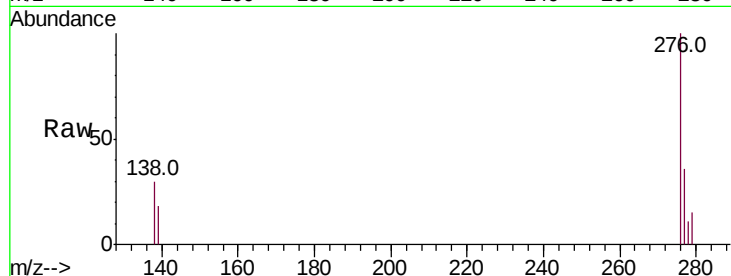




#37
 Benzo(a,h,i)perylene
 Concen: 0.058 ng
 RT: 25.85 min Scan# 3307
 Delta R.T. -0.02 min
 Lab File: BN007179.D
 Acq: 15 Aug 2019 00:42

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	36.0	19.8	29.8#
138	30.4	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

