

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081019\
 Data File : BN007056.D
 Acq On : 10 Aug 2019 19:59
 Operator : HP/JU
 Sample : K4144-05
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 11 04:37:04 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	7589	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	28363	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	16234	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	39968	0.40	ng	0.00
26) Chrysene-d12	21.05	240	42767	0.40	ng	-0.01
32) Perylene-d12	23.16	264	47888	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	3356	0.18	ng	0.00
4) Phenol-d6	6.61	99	4570	0.20	ng	0.00
7) Nitrobenzene-d5	8.56	82	3575	0.16	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	8920	0.17	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	896	0.10	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3888	0.16	ng	0.00
24) Fluoranthene-d10	18.87	212	23942	0.17	ng	0.00
28) Terphenyl-d14	19.49	244	18743	0.16	ng	0.00

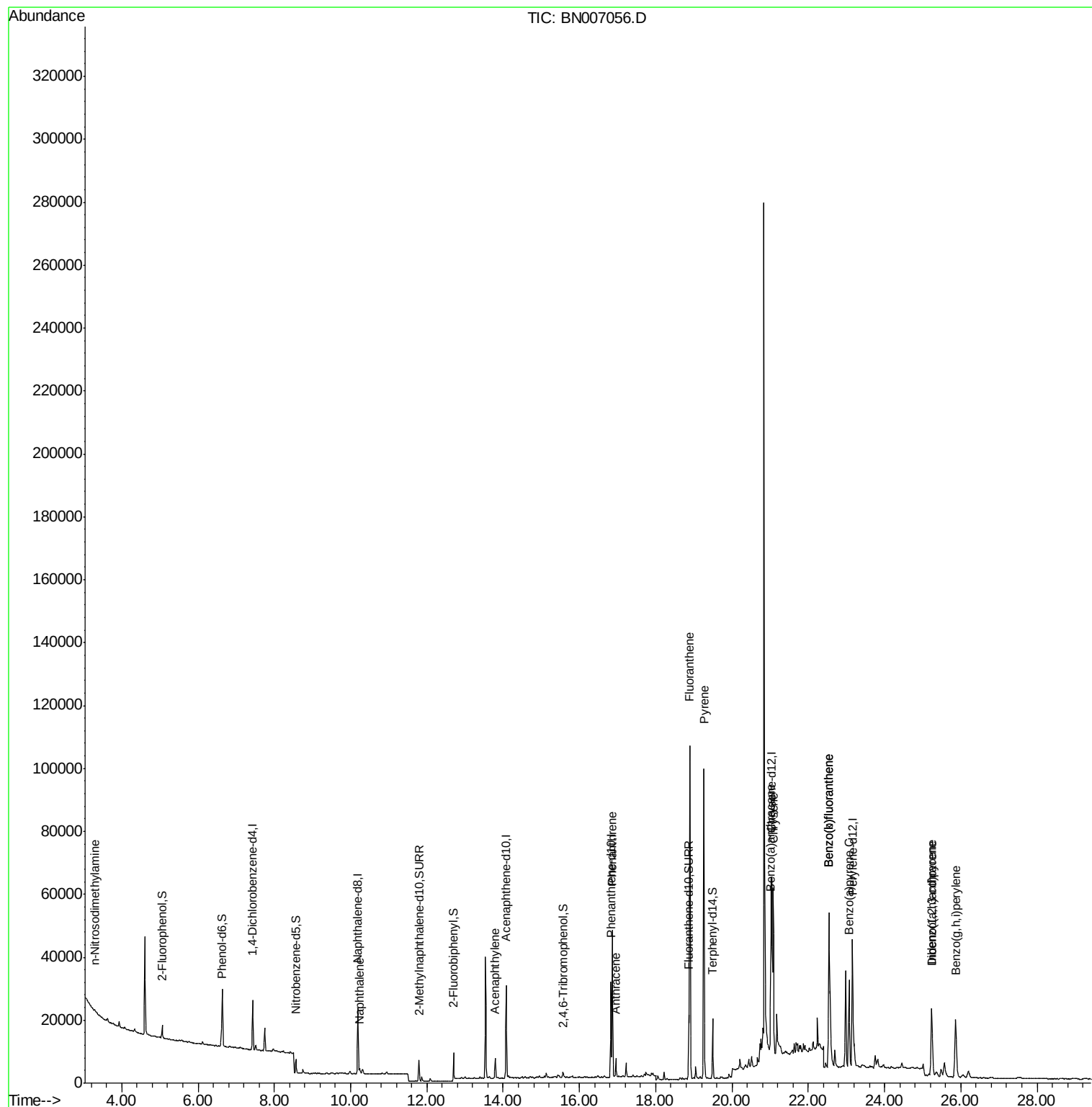
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) n-Nitrosodimethylamine	3.30	42	458	0.092	ng	# 1
8) Naphthalene	10.24	128	1947	0.024	ng	# 86
15) Acenaphthylene	13.79	152	8668	0.102	ng	99
22) Phenanthrene	16.87	178	45787	0.382	ng	100
23) Anthracene	16.96	178	6631	0.061	ng	97
25) Fluoranthene	18.90	202	97732	0.638	ng	100
27) Pyrene	19.26	202	87915	0.586	ng	98
29) Benzo(a)anthracene	21.02	228	29947	0.191	ng	93
30) Chrysene	21.08	228	54310	0.357	ng	97
31) Indeno(1,2,3-cd)pyrene	25.24	276	36943	0.221	ng	96
33) Benzo(b)fluoranthene	22.54	252	77585	0.472	ng	97
34) Benzo(k)fluoranthene	22.54	252	77585	0.478	ng	97
35) Benzo(a)pyrene	23.07	252	38287	0.257	ng	97
36) Dibenzo(a,h)anthracene	25.25	278	7879	0.053	ng	# 72
37) Benzo(a,h,i)perylene	25.87	276	38917	0.255	ng	97

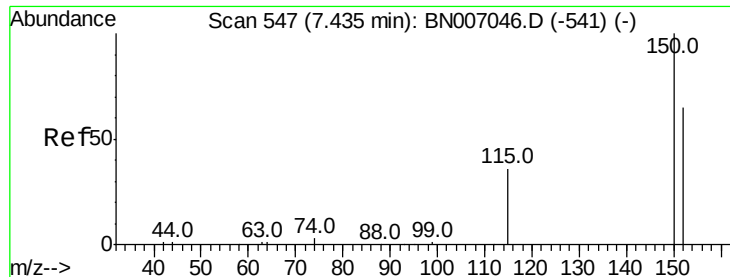
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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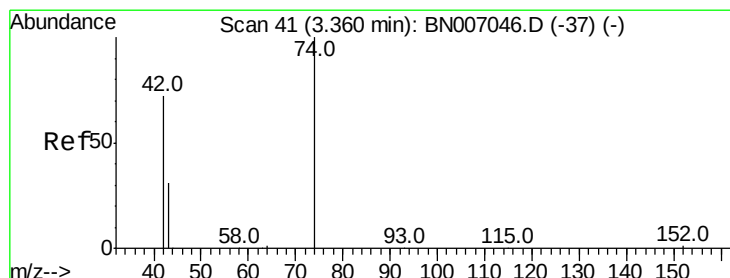
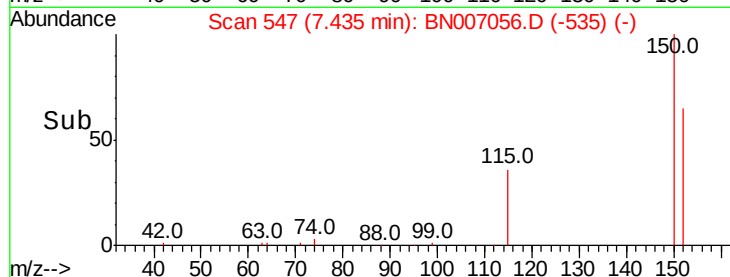
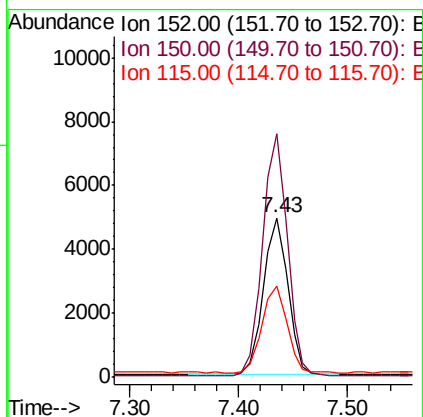
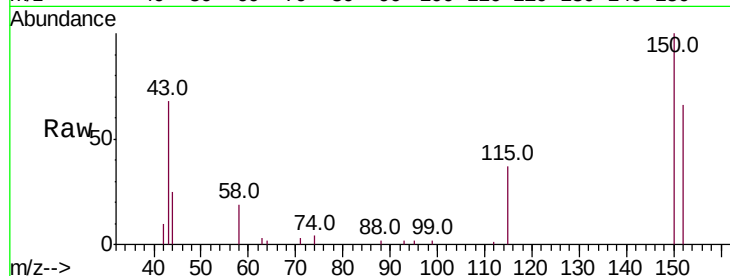


#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007056.D
Acq: 10 Aug 2019 19:59

Instrument :
BNA_N
ClientSampleId :

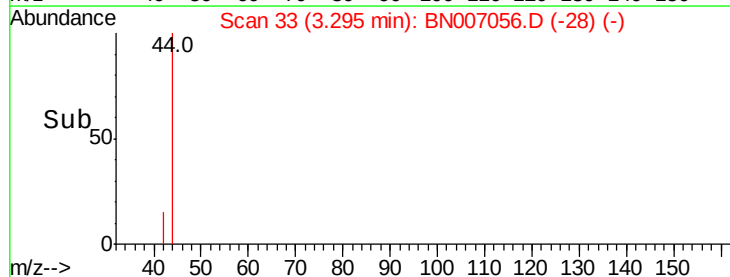
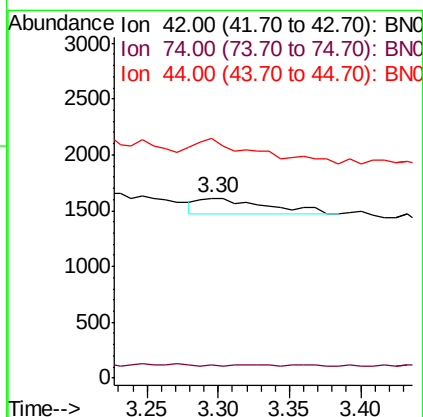
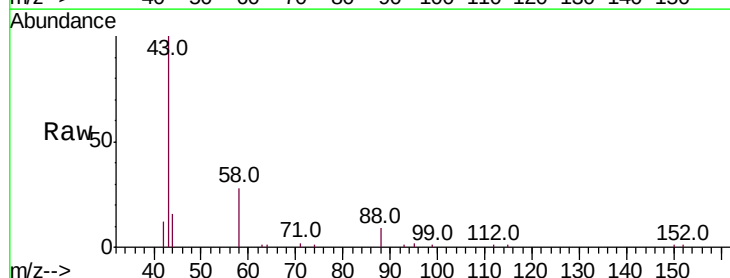
Tot Ion:152 Resp: 7589
Ion Ratio Lower Upper
152 100
150 152.6 121.7 182.5
115 57.1 46.2 69.4

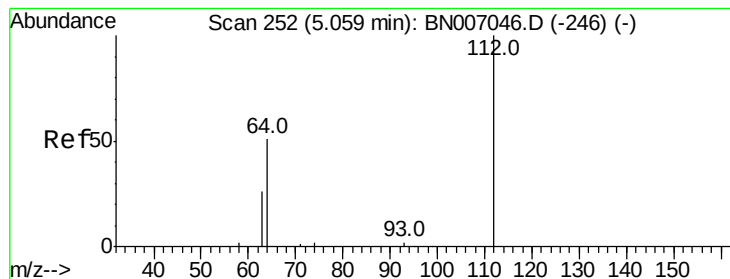


#2

n-Nitrosodimethylamine
Concen: 0.092 ng
RT: 3.30 min Scan# 33
Delta R.T. -0.06 min
Lab File: BN007056.D
Acq: 10 Aug 2019 19:59

Tgt Ion: 42 Resp: 458
Ion Ratio Lower Upper
42 100
74 0.0 110.6 166.0#
44 146.7 0.0 0.0#





#3

2-Fluorophenol

Concen: 0.184 ng

RT: 5.06 min Scan# 252

Delta R.T. -0.00 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

Instrument :
BNA_N
ClientSampled :

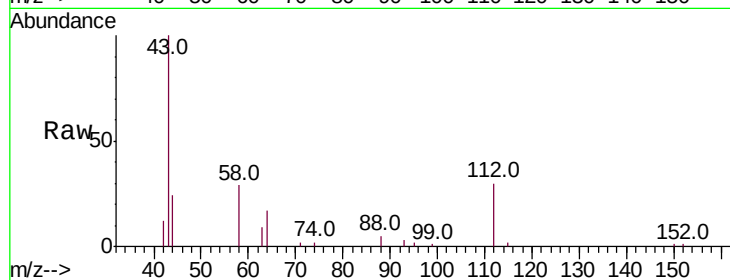
Tot Ion:112 Resp: 3356

Ion Ratio Lower Upper

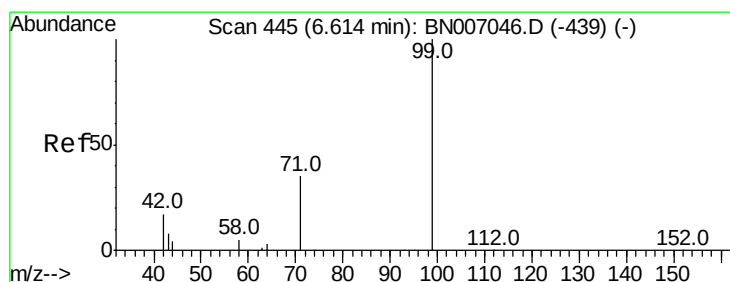
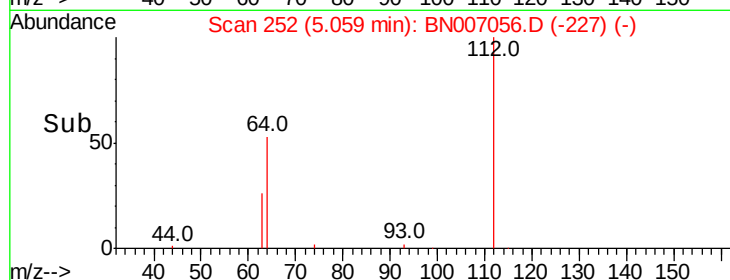
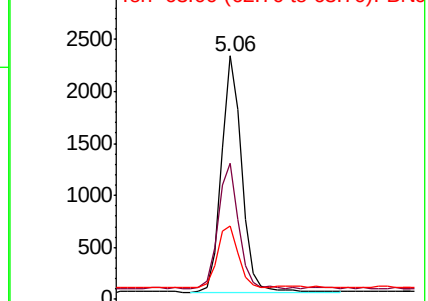
112 100

64 52.9 42.6 63.8

63 27.5 22.2 33.2



Abundance Ion 112.00 (111.70 to 112.70): BNC
Ion 64.00 (63.70 to 64.70): BNC
Ion 63.00 (62.70 to 63.70): BNC



#4

Phenol-d6

Concen: 0.202 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

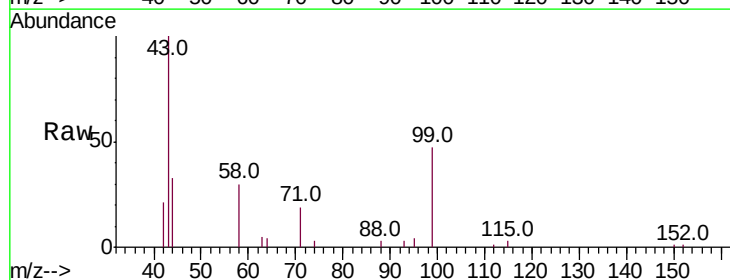
Tgt Ion: 99 Resp: 4570

Ion Ratio Lower Upper

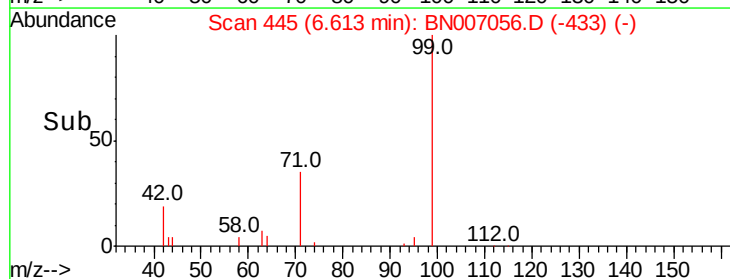
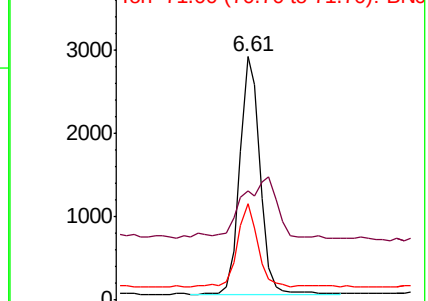
99 100

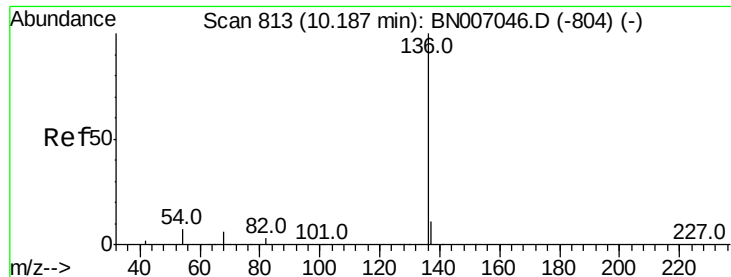
42 0.0 15.8 23.6#

71 35.8 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BNC
Ion 42.00 (41.70 to 42.70): BNC
Ion 71.00 (70.70 to 71.70): BNC





#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

Instrument :

BNA_N

ClientSampled :

Tot Ion:136 Resp: 28363

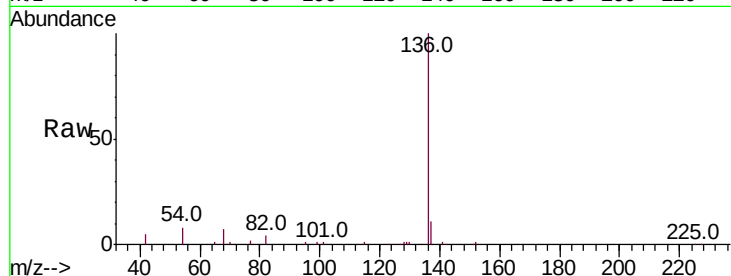
Ion Ratio Lower Upper

136 100

137 11.4 9.4 14.0

54 8.0 6.6 9.8

68 7.0 6.0 9.0

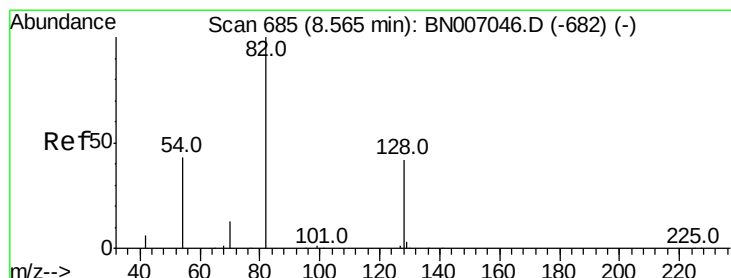
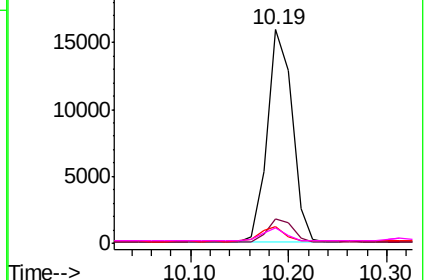
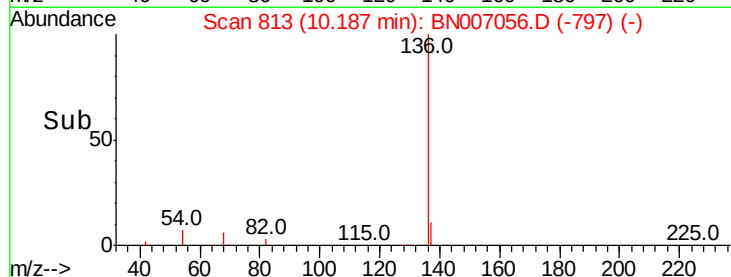


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#7

Nitrobenzene-d5

Concen: 0.156 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

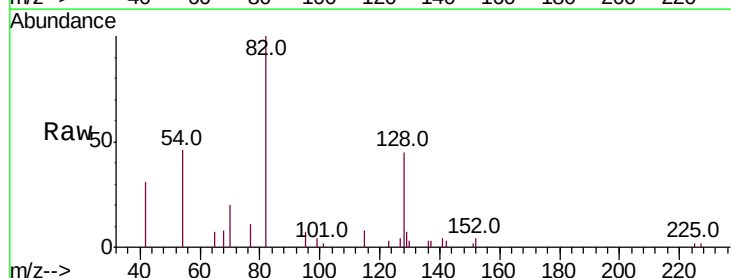
Tgt Ion: 82 Resp: 3575

Ion Ratio Lower Upper

82 100

128 45.3 34.6 51.8

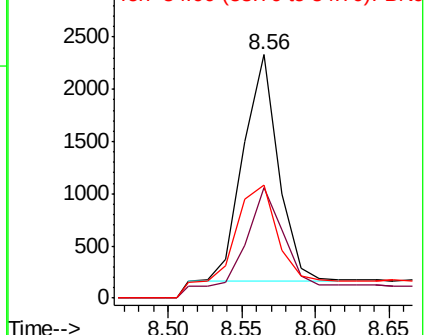
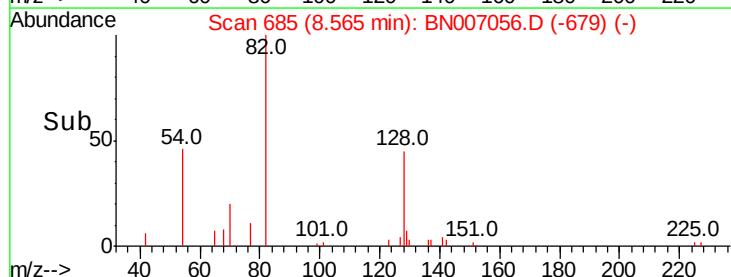
54 46.4 36.2 54.4

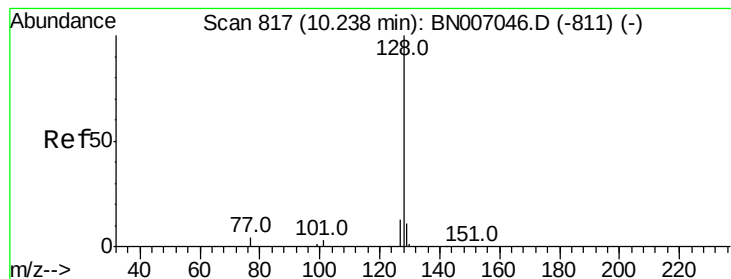


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#8

Naphthalene

Concen: 0.024 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

Instrument :

BNA_N

ClientSampleId :

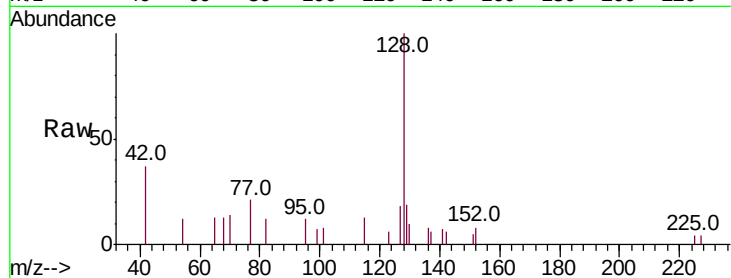
Tot Ion:128 Resp: 1947

Ion Ratio Lower Upper

128 100

129 18.6 9.4 14.2#

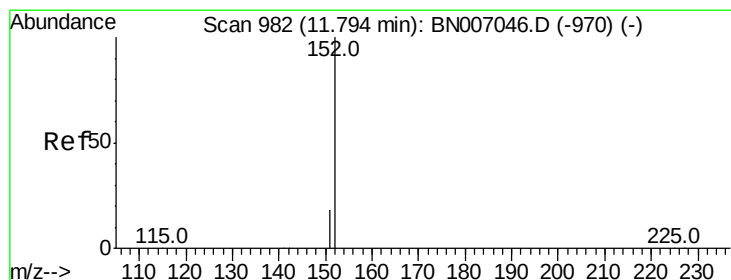
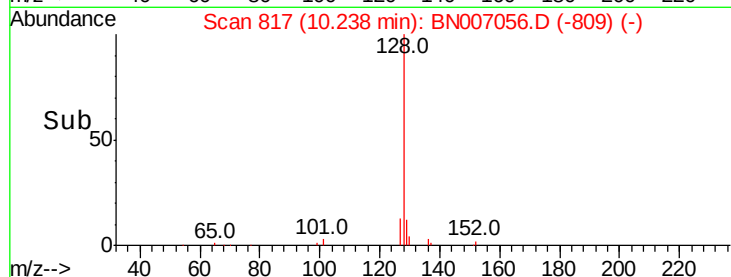
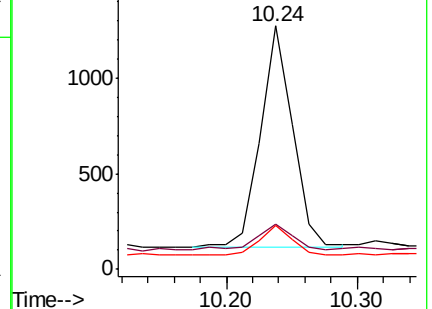
127 17.9 11.0 16.6#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

2-Methylnaphthalene-d10

Concen: 0.169 ng

RT: 11.79 min Scan# 982

Delta R.T. -0.00 min

Lab File: BN007056.D

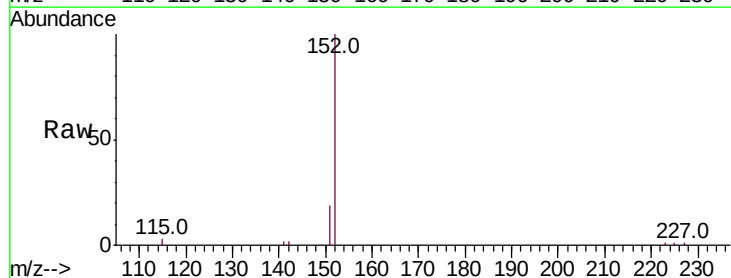
Acq: 10 Aug 2019 19:59

Tgt Ion:152 Resp: 8920

Ion Ratio Lower Upper

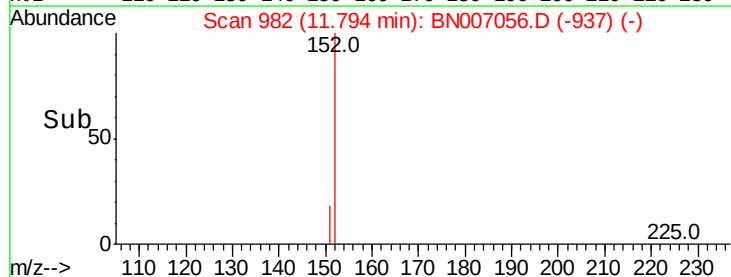
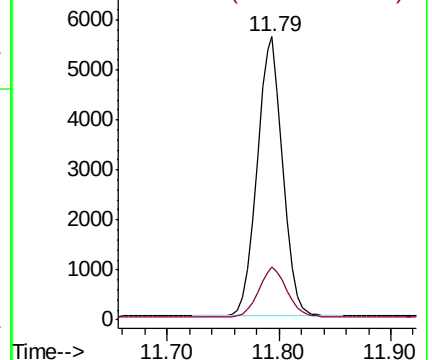
152 100

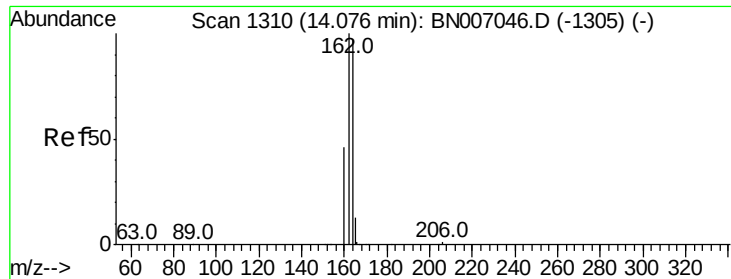
151 19.3 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

Instrument :

BNA_N

ClientSampleId :

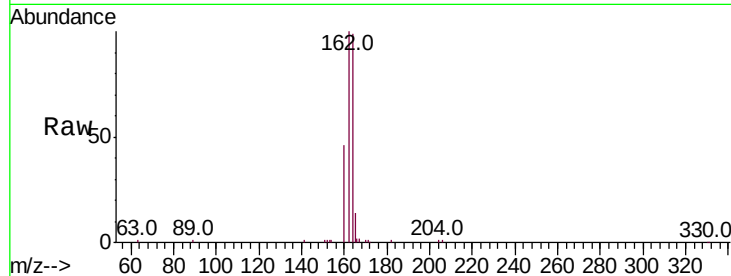
Tot Ion:164 Resp: 16234

Ion Ratio Lower Upper

164 100

162 101.1 82.2 123.4

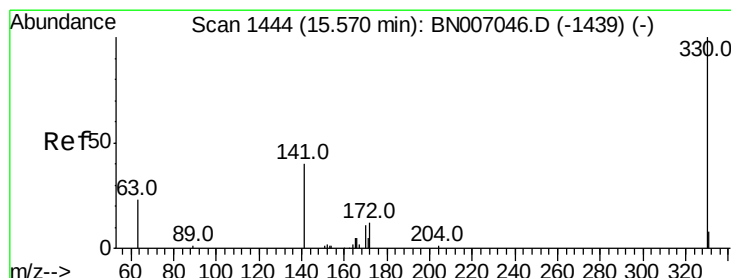
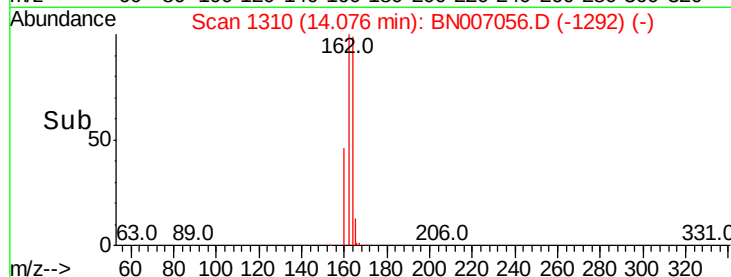
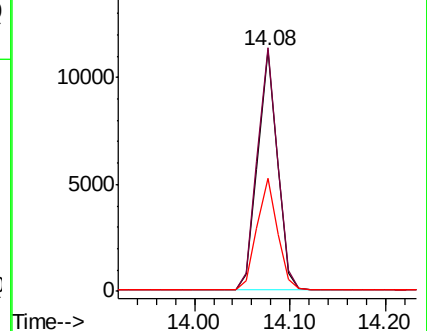
160 46.7 38.3 57.5



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: 0.102 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

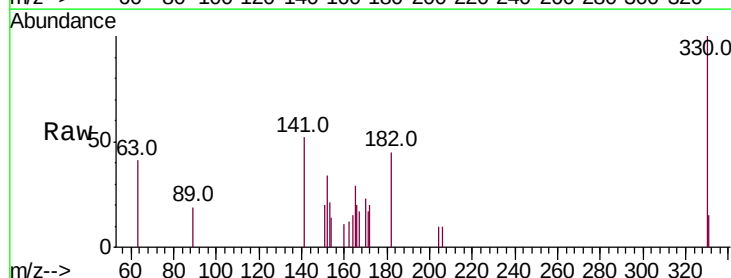
Tgt Ion:330 Resp: 896

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

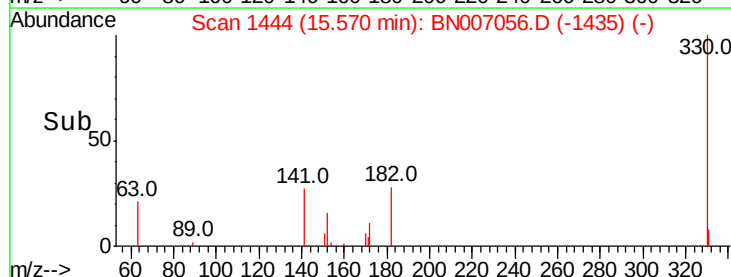
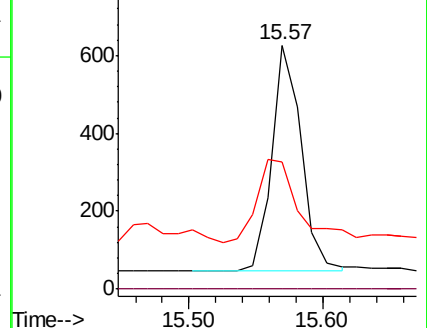
141 53.2 33.6 50.4#

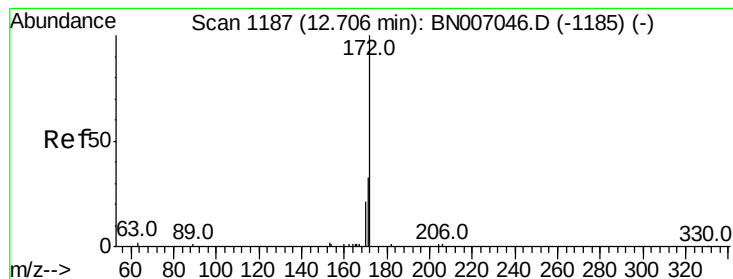


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#14

2-Fluorobiphenyl

Concen: 0.165 ng

RT: 12.71 min Scan# 1187

Delta R.T. -0.00 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

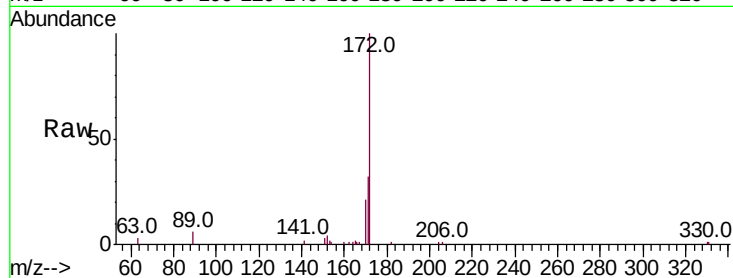
Instrument :

BNA_N

ClientSampleId :

Tot Ion:172 Resp: 3888

Ion	Ratio	Lower	Upper
172	100		
171	32.3	26.3	39.5
170	20.9	17.0	25.4

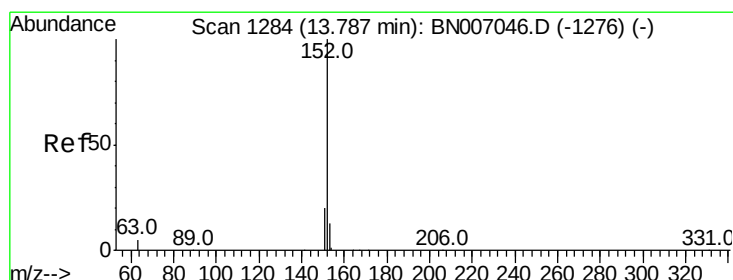
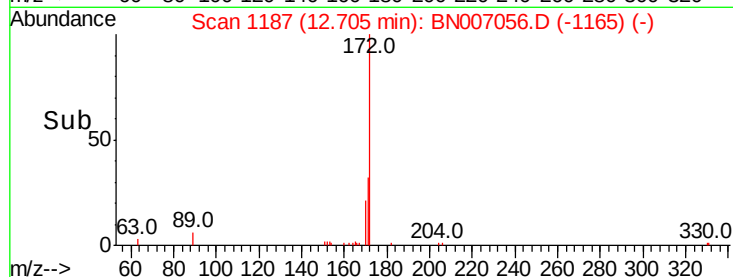
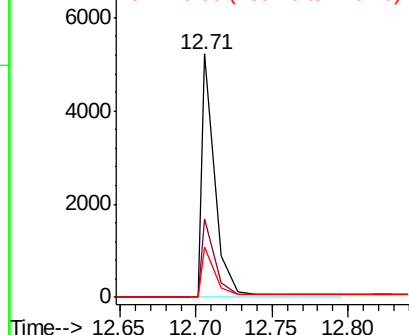


Abundance

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: 0.102 ng

RT: 13.79 min Scan# 1284

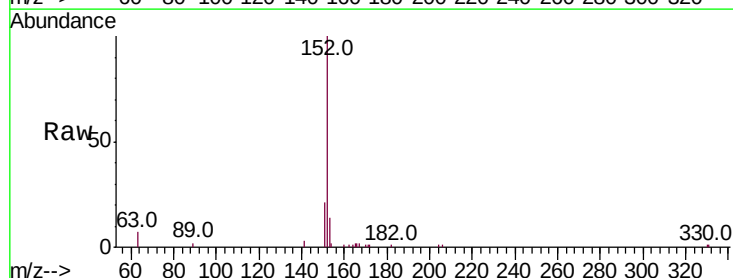
Delta R.T. -0.00 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

Tgt Ion:152 Resp: 8668

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.8	23.6
153	13.3	10.4	15.6

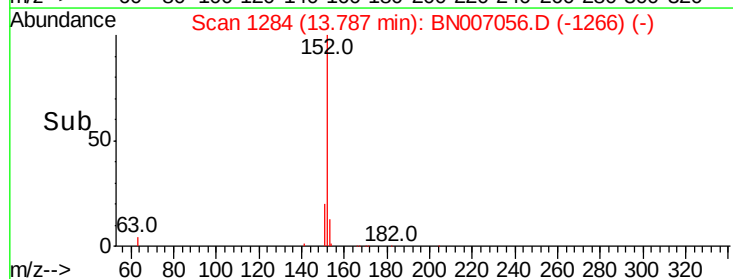
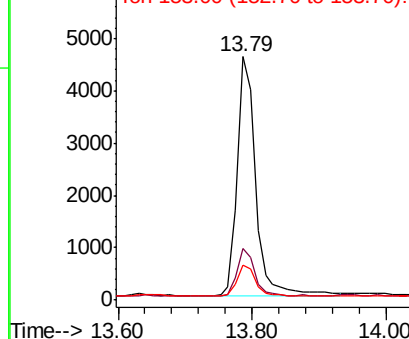


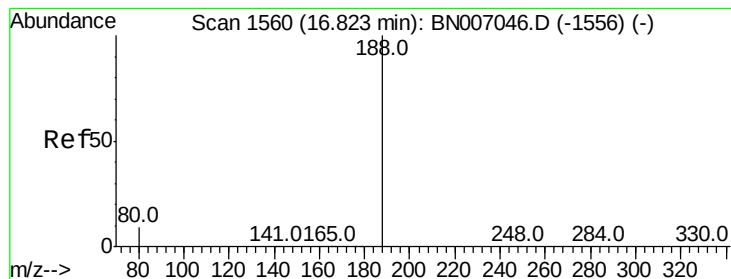
Abundance

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: BN007056.D

Acq: 10 Aug 2019 19:59

Instrument :

BNA_N

ClientSampleId :

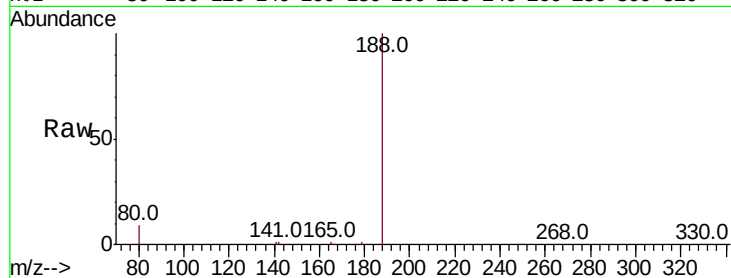
Tot Ion:188 Resp: 39968

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

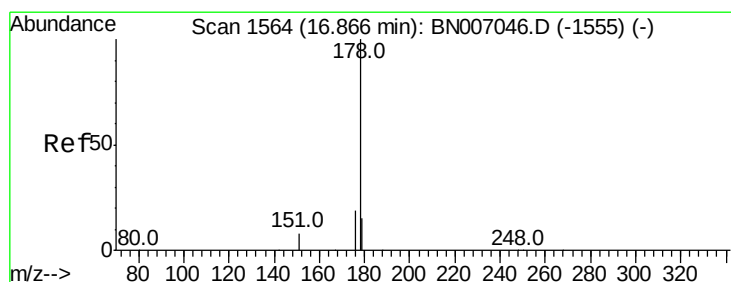
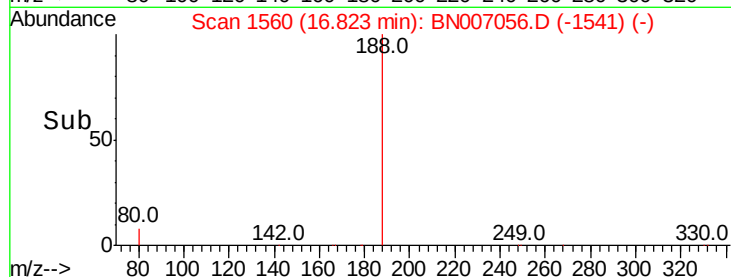
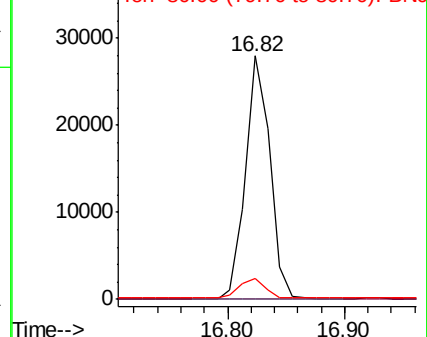
80 8.8 7.8 11.6



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: 0.382 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

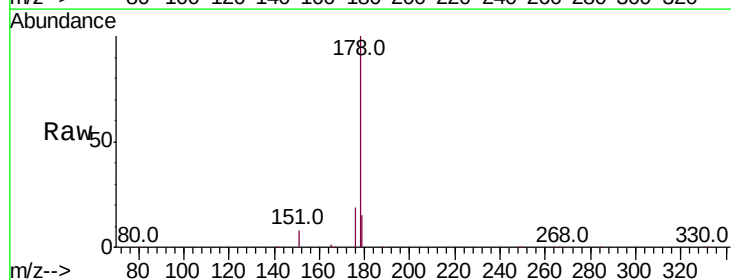
Tgt Ion:178 Resp: 45787

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

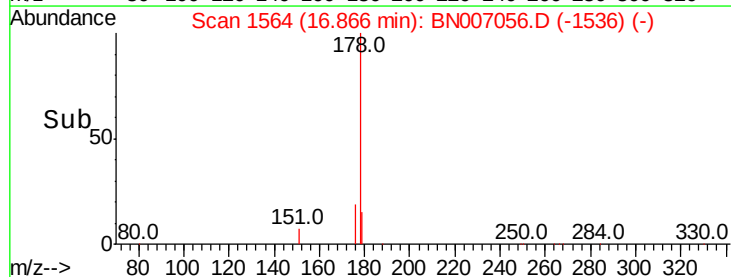
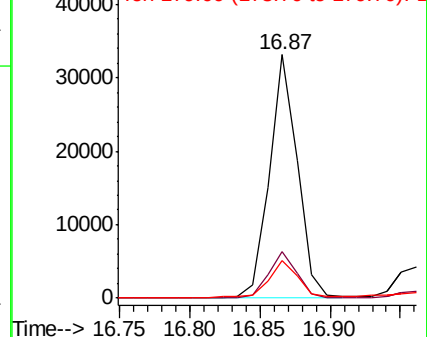
179 15.5 12.3 18.5

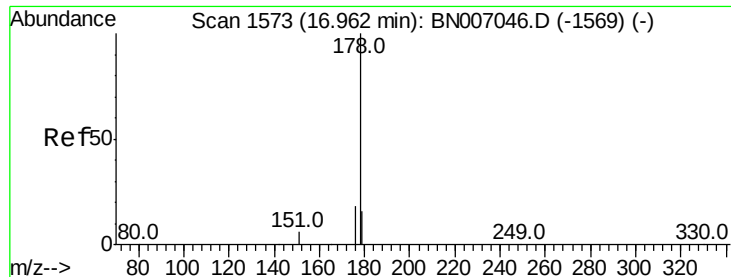


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 0.061 ng

RT: 16.96 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

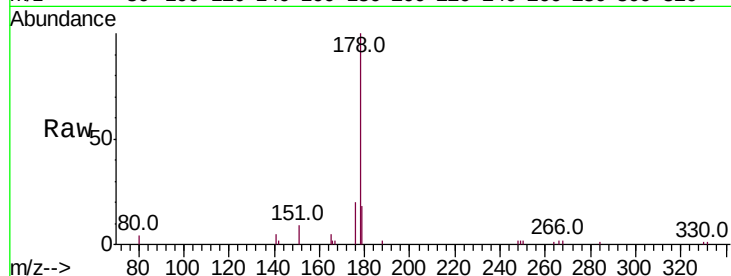
Instrument :

BNA_N

ClientSampled :

Tot Ion:178 Resp: 6631

Ion	Ratio	Lower	Upper
178	100		
176	17.8	14.6	21.8
179	17.8	12.5	18.7

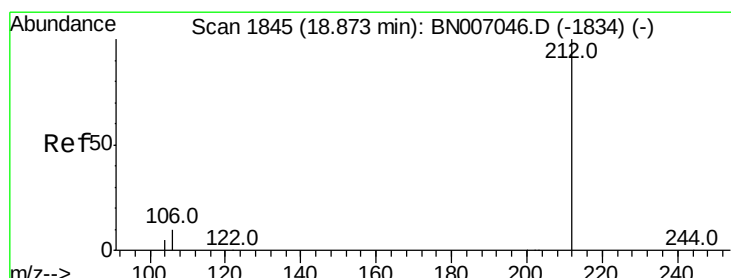
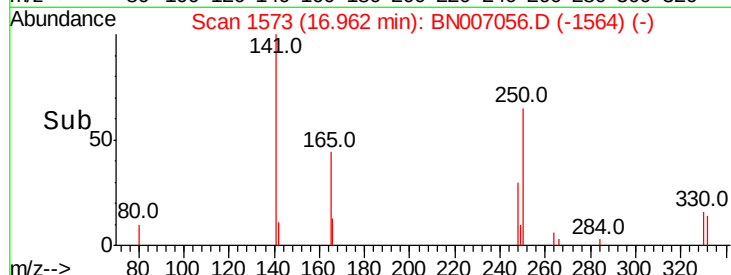
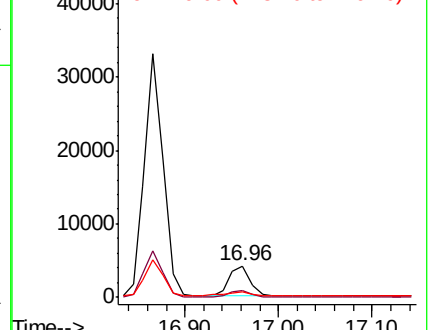


Abundance

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: 0.169 ng

RT: 18.87 min Scan# 1844

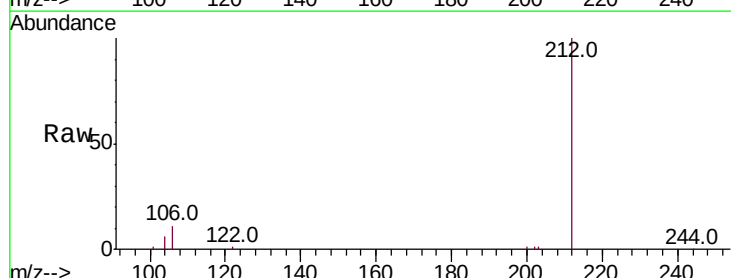
Delta R.T. -0.01 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

Tgt Ion:212 Resp: 23942

Ion	Ratio	Lower	Upper
212	100		
106	10.2	8.2	12.2
104	5.9	4.5	6.7

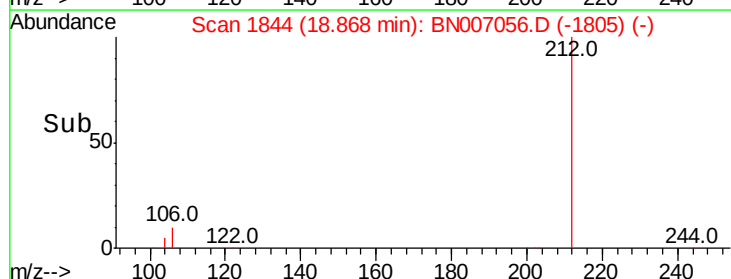
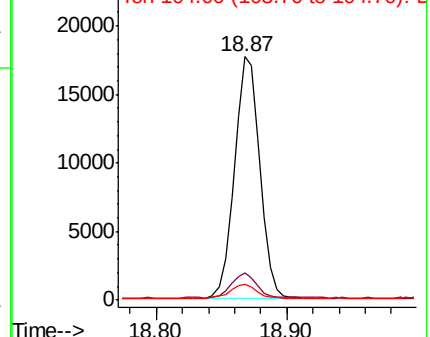


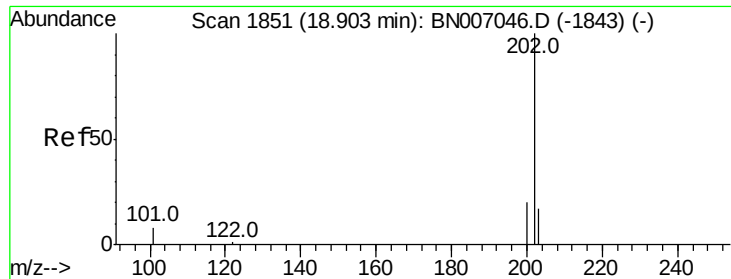
Abundance

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: 0.638 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

Instrument :

BNA_N

ClientSampleId :

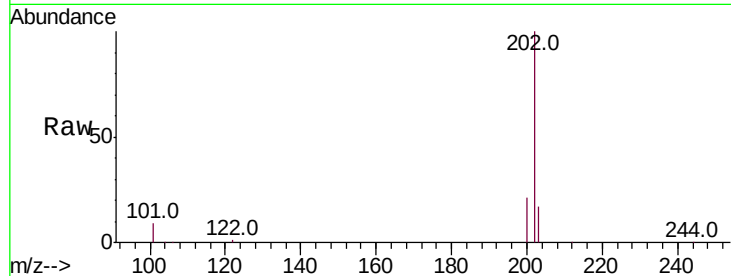
Tot Ion:202 Resp: 97732

Ion Ratio Lower Upper

202 100

101 8.5 7.0 10.4

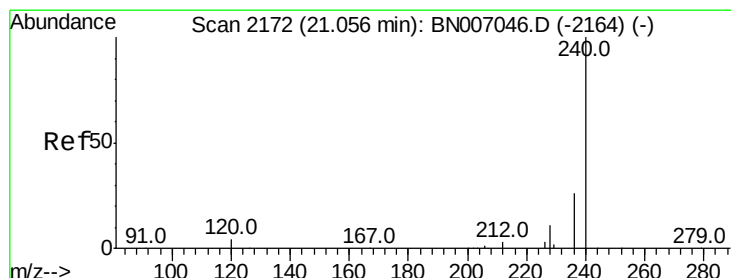
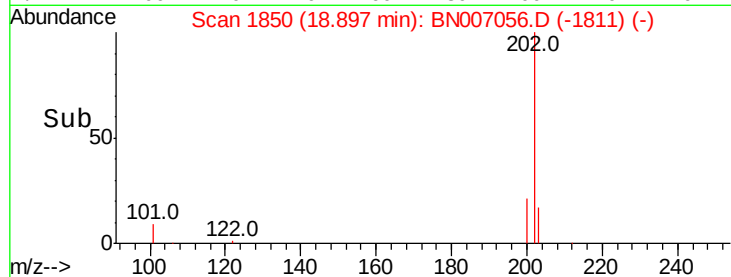
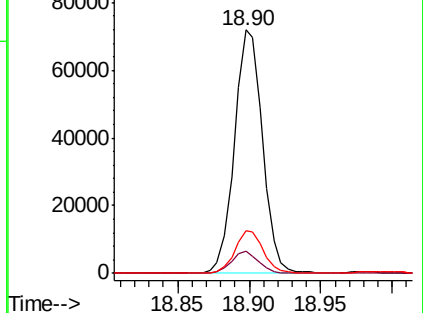
203 17.2 13.8 20.8



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: 21.05 min Scan# 2171

Delta R.T. -0.01 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

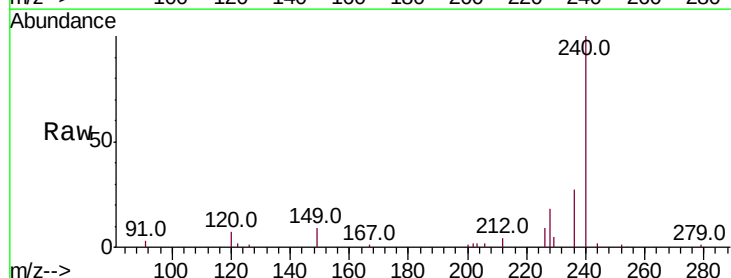
Tgt Ion:240 Resp: 42767

Ion Ratio Lower Upper

240 100

120 7.1 4.0 6.0#

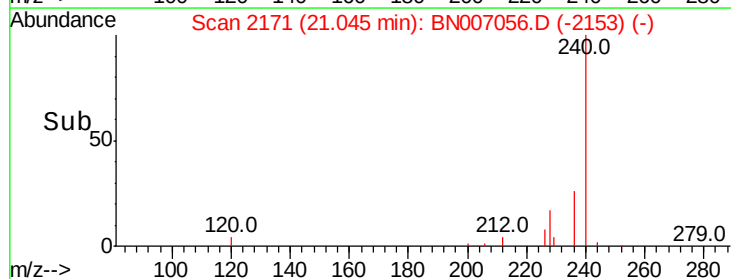
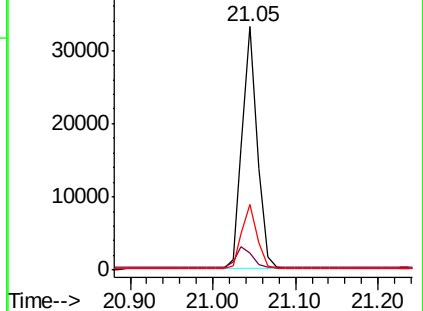
236 27.0 21.3 31.9

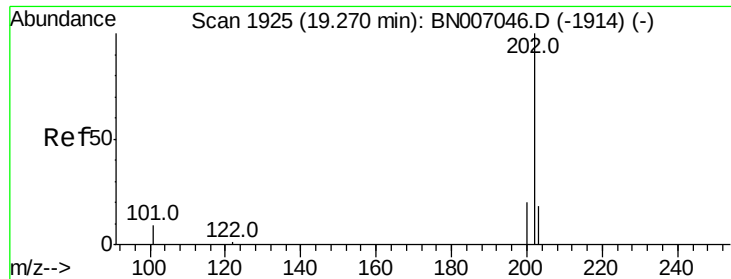


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

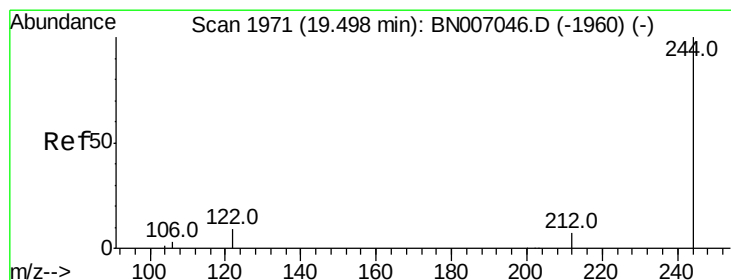
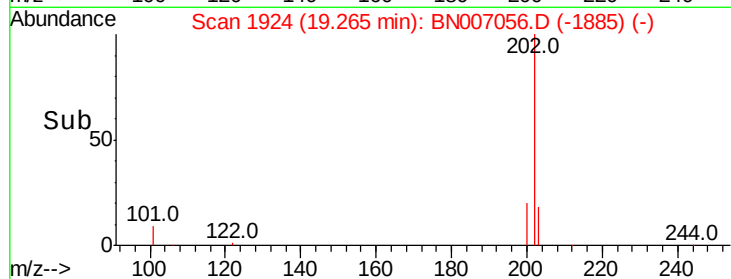
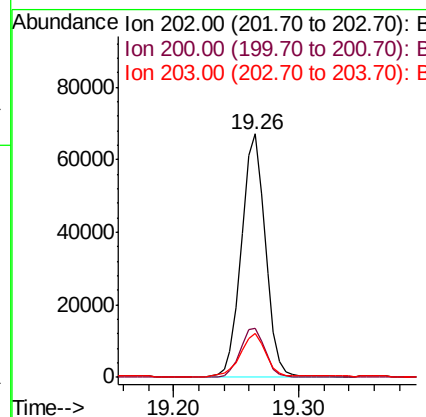
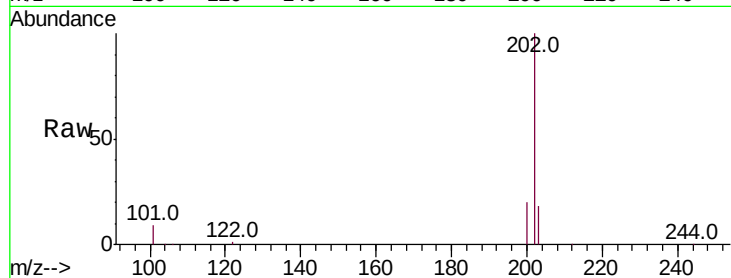




#27
Pvrene
Concen: 0.586 ng
RT: 19.26 min Scan# 1924
Delta R.T. -0.01 min
Lab File: BN007056.D
Acq: 10 Aug 2019 19:59

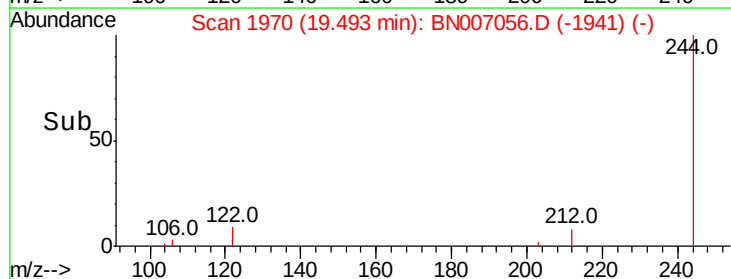
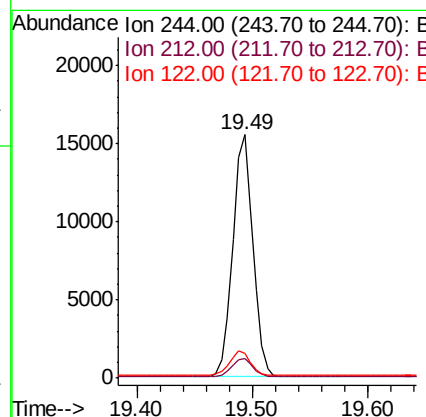
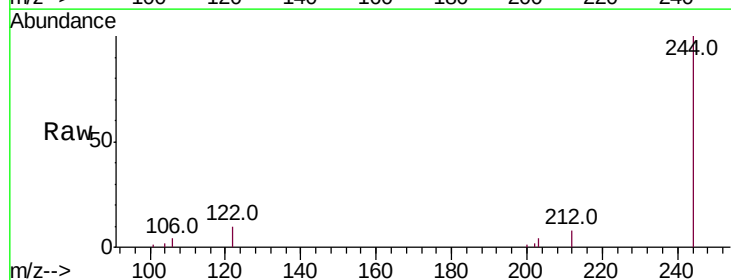
Instrument :
BNA_N
ClientSampleId :

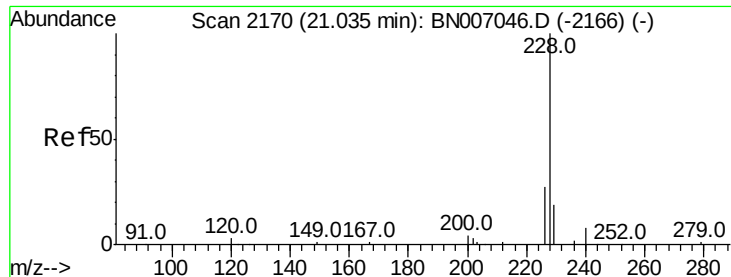
Tot Ion:202 Resp: 87915
Ion Ratio Lower Upper
202 100
200 20.9 16.6 24.8
203 19.0 14.0 21.0



#28
Terphenyl-d14
Concen: 0.161 ng
RT: 19.49 min Scan# 1970
Delta R.T. -0.01 min
Lab File: BN007056.D
Acq: 10 Aug 2019 19:59

Tgt Ion:244 Resp: 18743
Ion Ratio Lower Upper
244 100
212 8.3 6.2 9.2
122 10.1 7.4 11.2





#29

Benzo(a)anthracene

Concen: 0.191 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

Instrument :

BNA_N

ClientSampleId :

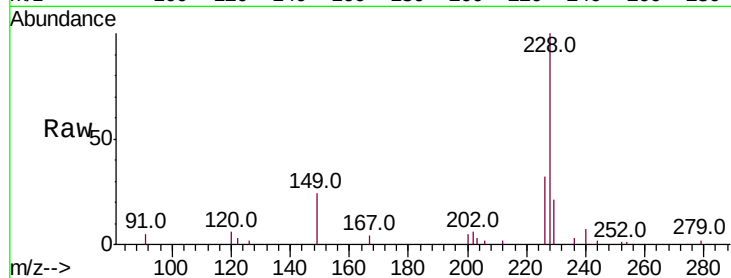
Tot Ion:228 Resp: 29947

Ion Ratio Lower Upper

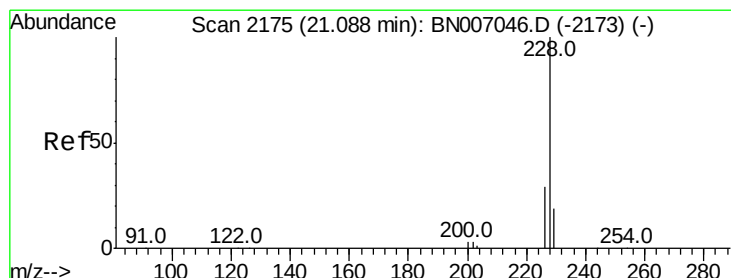
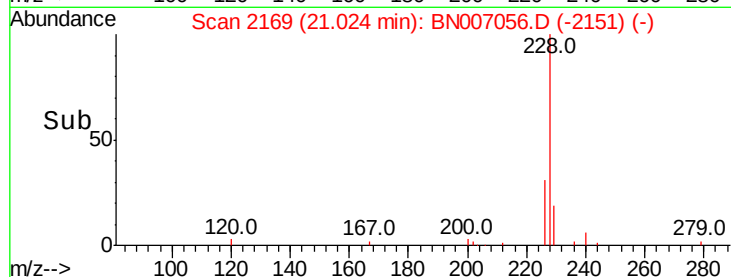
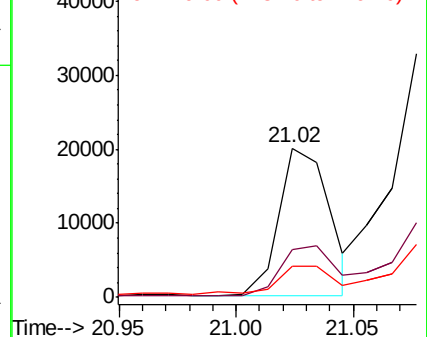
228 100

226 32.2 21.8 32.6

229 21.2 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: 0.357 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

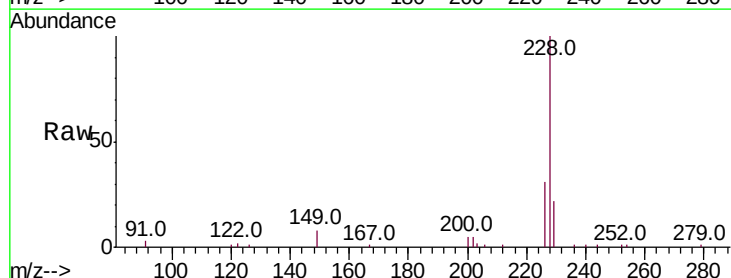
Tgt Ion:228 Resp: 54310

Ion Ratio Lower Upper

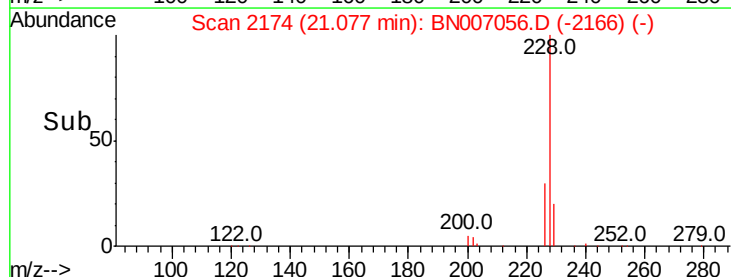
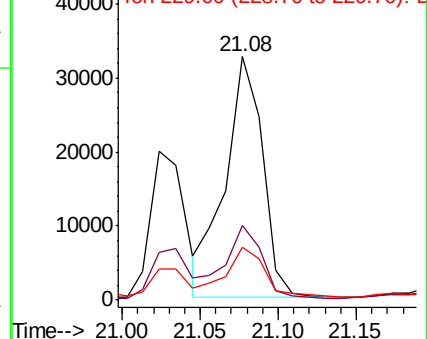
228 100

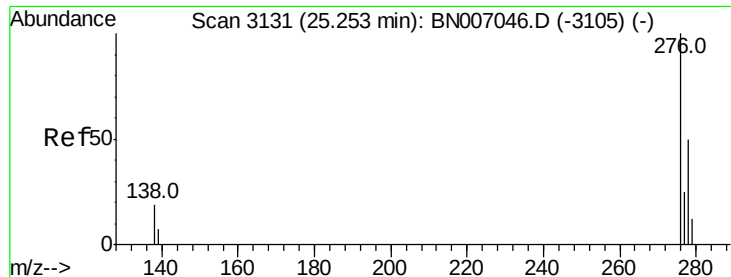
226 30.8 23.8 35.6

229 21.6 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

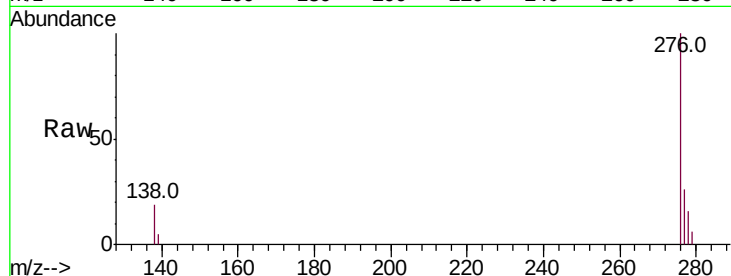




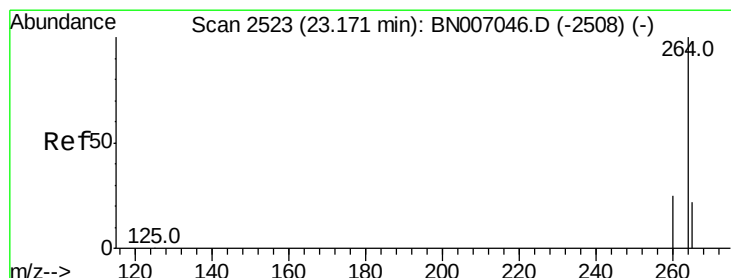
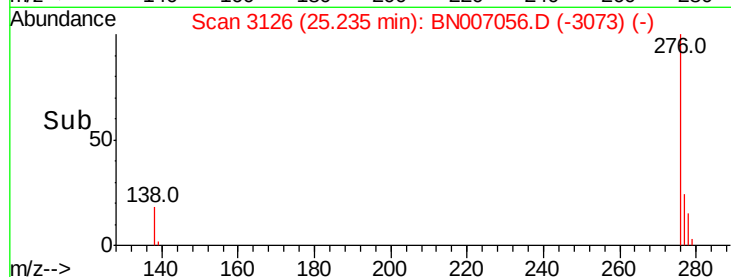
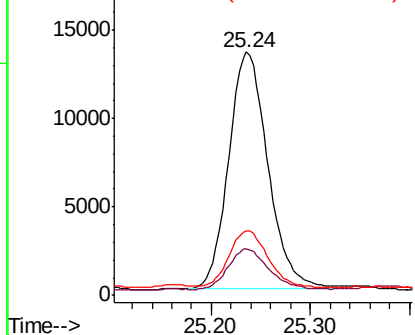
#31
 Indeno(1,2,3-cd)pyrene
 Concen: 0.221 ng
 RT: 25.24 min Scan# 3126
 Delta R.T. -0.02 min
 Lab File: BN007056.D
 Acq: 10 Aug 2019 19:59

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:276 Resp: 36943
 Ion Ratio Lower Upper
 276 100
 138 17.7 16.0 24.0
 277 23.6 19.9 29.9

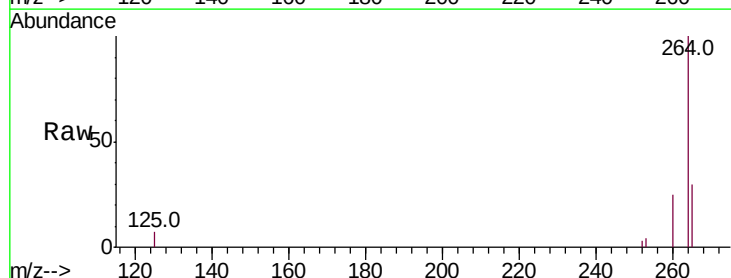


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

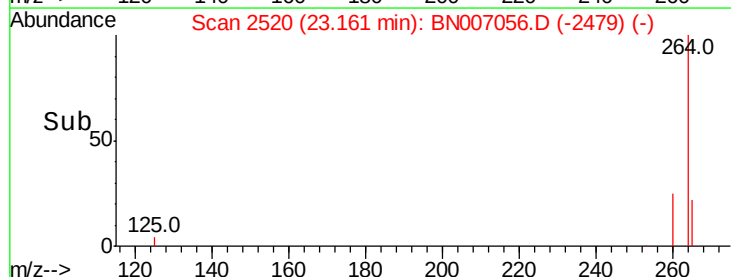
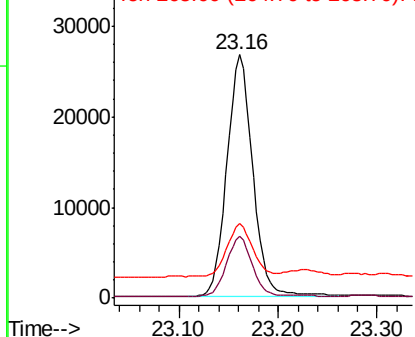


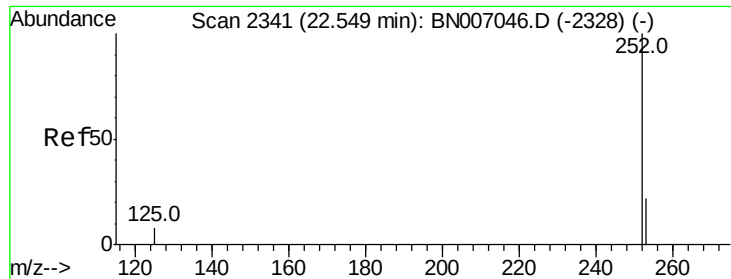
#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.16 min Scan# 2520
 Delta R.T. -0.01 min
 Lab File: BN007056.D
 Acq: 10 Aug 2019 19:59

Tgt Ion:264 Resp: 47888
 Ion Ratio Lower Upper
 264 100
 260 25.4 19.8 29.8
 265 30.5 26.2 39.4



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 0.472 ng

RT: 22.54 min Scan# 2339

Delta R.T. -0.01 min

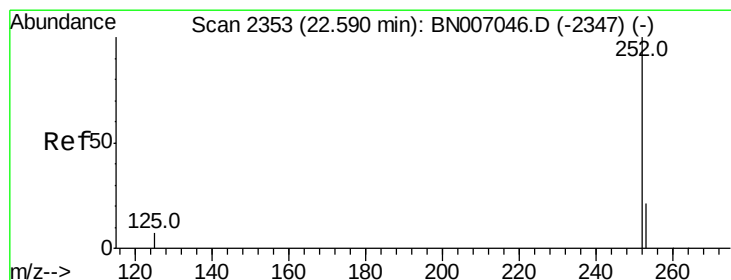
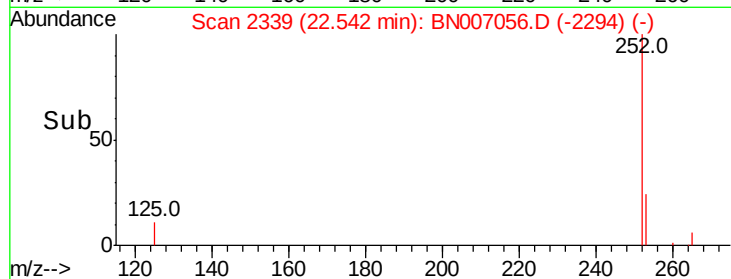
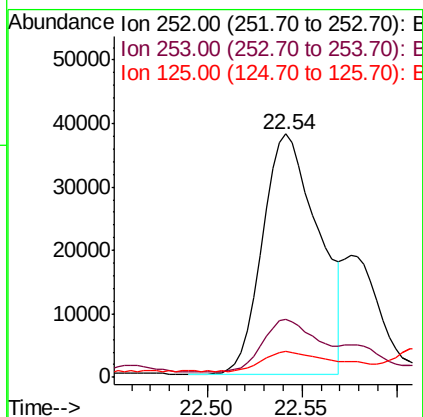
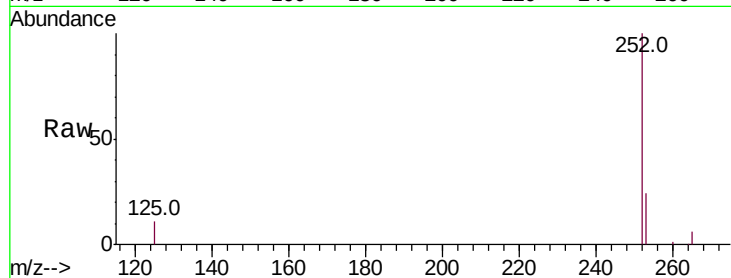
Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

Instrument :
BNA_N
ClientSampleId :

Tot Ion:252 Resp: 77585

Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.2	27.2
125	10.6	7.4	11.0



#34

Benzo(k)fluoranthene

Concen: 0.478 ng

RT: 22.54 min Scan# 2339

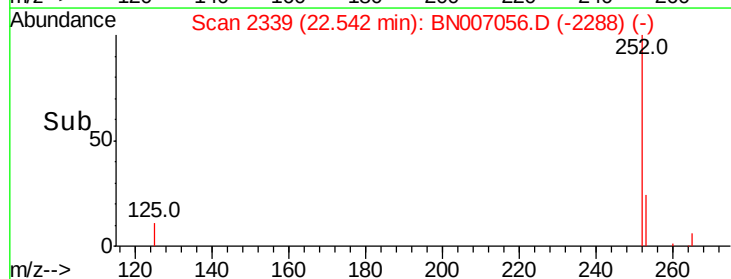
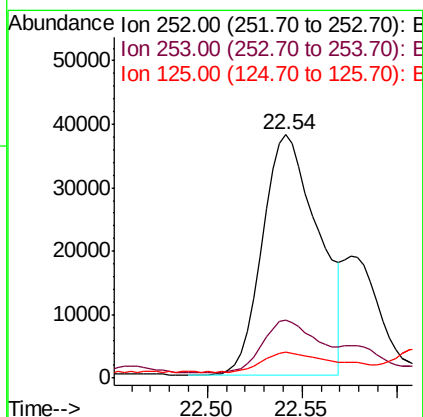
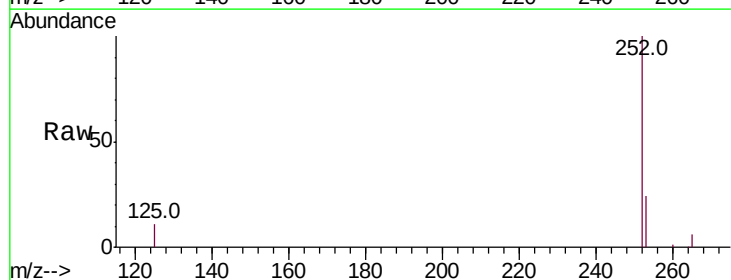
Delta R.T. -0.05 min

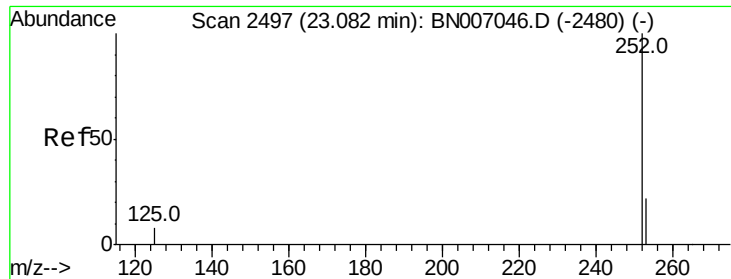
Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

Tgt Ion:252 Resp: 77585

Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.1	27.1
125	10.6	7.4	11.0





#35

Benzo(a)pyrene

Concen: 0.257 ng

RT: 23.07 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

Instrument :

BNA_N

ClientSampleId :

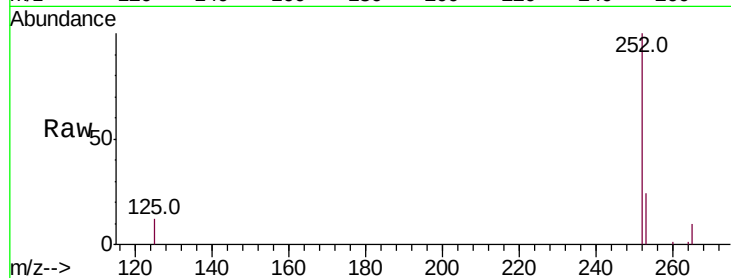
Tot Ion:252 Resp: 38287

Ion Ratio Lower Upper

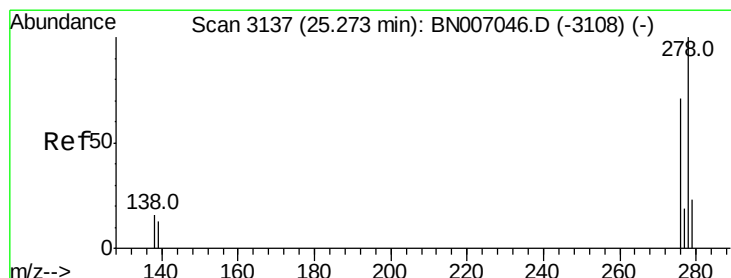
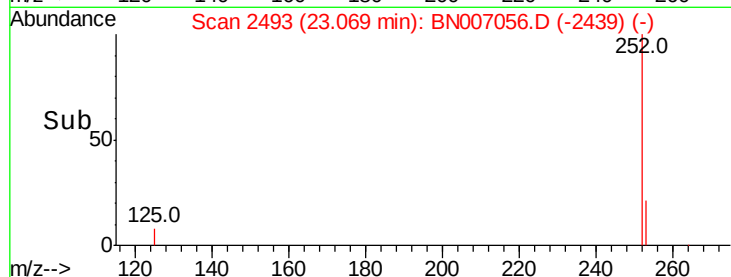
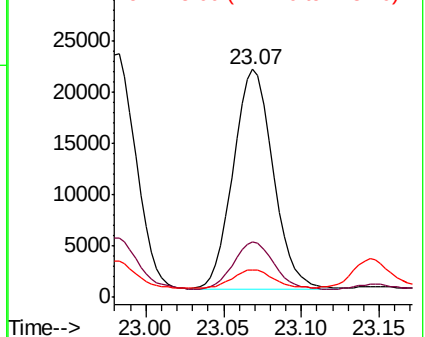
252 100

253 24.3 18.5 27.7

125 12.0 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: 0.053 ng

RT: 25.25 min Scan# 3130

Delta R.T. -0.02 min

Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

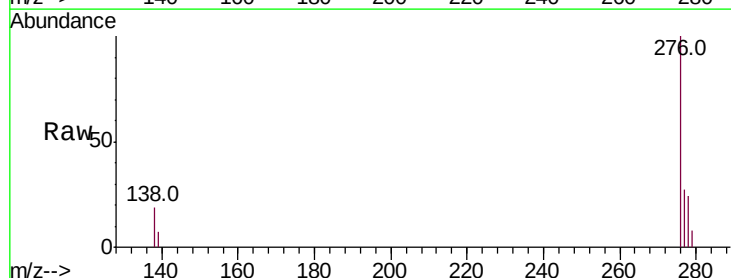
Tgt Ion:278 Resp: 7879

Ion Ratio Lower Upper

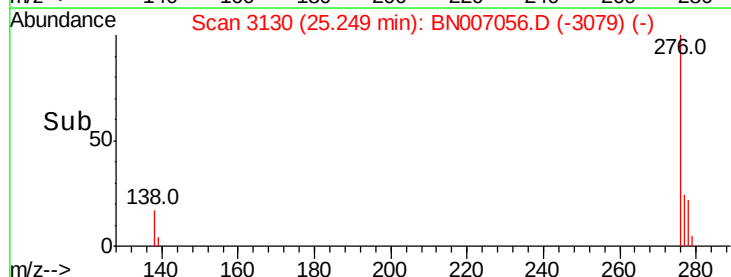
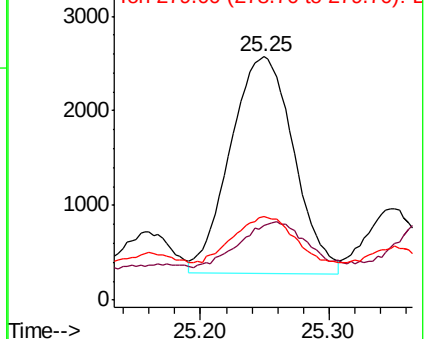
278 100

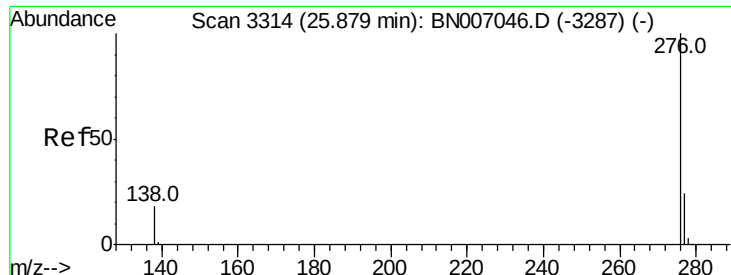
139 30.4 11.3 16.9#

279 34.3 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(a,h,i)perylene

Concen: 0.255 ng

RT: 25.87 min Scan# 3310

Delta R.T. -0.01 min

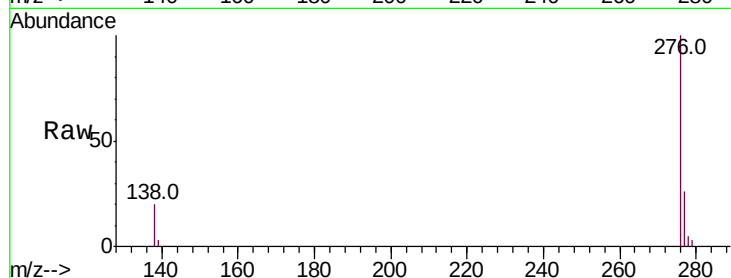
Lab File: BN007056.D

Acq: 10 Aug 2019 19:59

Instrument :

BNA_N

ClientSampleId :



Tot Ion:276 Resp: 38917

Ion Ratio Lower Upper

276 100

277 26.0 19.8 29.8

138 20.0 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

