

RF EXPOSURE EVALUATION

KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

EUT Specification

FCC ID	2BFF73600PRO
EUT Anbotek Anbo	3600Pro
Frequency band (Operating)	⊠ BLE: 2.402GHz ~ 2.480GH
Ambore Amber Amber	⊠ WLAN: 2.412GHz ~ 2.462GHz
Anboten Anb	☐ RLAN: 5.180GHz ~ 5.240GHz
ek abotek Anbor k	☐ RLAN: 5.260GHz ~ 5.320GHz
k hotek Amboten	☐ RLAN: 5.500GHz ~ 5.700GHz
poten And	☐ RLAN: 5.745GHz ~ 5.825GHz
nbotek Anbor Ar. hotek	Others:
Device category	☐ Portable (<20cm separation)
And Anbotek Anbo	⊠ Mobile (>20cm separation)
Anbo. Ak abotek Ar	☐ Others
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm2)
otek Anbotek Anbe	☐ General Population/Uncontrolled exposure (S=1mW/cm2)
Antenna diversity	⊠ Single antenna
Anbore K Anboren	☐ Multiple antennas
Anboter And	☐ Tx diversity
abotek Anbo	☐ Rx diversity
Anbotek Anbotek An	☐ Tx/Rx diversity
Antenna gain (Max)	4.16dBi
Evaluation applied	⊠ MPE Evaluation
shotek Anbore And	☐ SAR Evaluation





Limits for Maximum Permissible Exposure(MPE)

Frequency	Electric Field	Magnetic Field	Power	Average	
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)	Time	
ek Anbotes	(A) Limits for (Occupational/Contr	ol Exposures	yer Aug	
300-1500	Aupo K	botek Anbote	hotek 6 An		
1500-100000	k ALPONE	And rele-	5	,,ot 6	
Aupore Aur	(B) Limits for Gene	eral Population/Und	control Exposures	Vier.	
300-1500	- botek	Anbore A	F/1500	Anb6	
1500-100000	inpo, - All	sk autorien	And lek 1 abotek	30	

Friis transmission formula: Pd=(Pout*G)\(4*pi*R2)

Where

Pd= Power density in mW/cm²

Pout=output power to antenna in Mw G= gain of antenna in linear scale

Pi=3.1416

R= distance between observation point and center of the radiator in cm Pd the limit of MPE, 1mW/cm2. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Max Measurement Result

Operating Mode	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm2)
	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm2)	
BLE	-0.05	-0.05 ±1	0.95	4.16	0.0006	And 1 tek
WiFi 2.4G	14.9	14.9 ±1	15.90	4.16	0.0202	And

Result: No Standalone SAR test is required.



Hotline