

## MAXIMUM PERMISSIBLE EXPOSURE

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**

when we	A. No. A.
FCC ID Anton Antone Ant	2AAPK-XYW2103A
EUT Anboten Anbo	WIRELESS CHARGING ALARM CLOCK
Anbe tek nbotek Anbo	⊠ BT: 2.402GHz ~ 2.480GH
Anboi An hotek An	WLAN: 2.412GHz ~ 2.462GHz
Frequency band	RLAN: 5.180GHz ~ 5.240GHz
(Operating)	RLAN: 5.260GHz ~ 5.320GHz
(Operating)	RLAN: 5.500GHz ~ 5.700GHz
pote Ant otek Anbotek	RLAN: 5.745GHz ~ 5.825GHz
enbotek Anbo h bot	Others:
abotek Anbote Att	Portable (<20cm separation)
Device category	$\boxtimes$ Mobile (>20cm separation)
Anbe sek sbotek	Others
Exposure classification	Occupational/Controlled exposure
Exposure classification	$\boxtimes$ General Population/Uncontrolled exposure
stek snbotek Anbo	Single antenna
Anbo ok hotek Anbore	Multiple antennas
Antenna diversity	Tx diversity
unbotek Anbo Lak	Rx diversity
6 botek Anbore I	Tx/Rx diversity
Max. output power	-2.79dBm (0.0005W)
Antenna gain (Max)	-0.68 dBi
Evaluation applied	MPE Evaluation
	SAR Evaluation

#### Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 0755–26066440 Fax:(86) 0755–26014772 Email:service@anbotek.com Hotline 400–003–0500 www.anbotek.com.cn



Anbotek Product Safety

### Limits for Maximum Permissible Exposure(MPE)

Frequency	Electric Field	Magnetic Field	Power Density	Average Time	
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm <sup>2</sup> )	Ant otek Anbo	
ek Anbotet.	(A) Limits for	Occupational/Cont	trol Exposures	And	
300-1500	Anbo, A.	lek Antore	F/300	Anbo G	
1500-100000	Anbore Ant	stek -nbotek	Anbo 5	6°	
Anbort Ant	(B) Limits for Gen	eral Population/Ur	control Exposures	otek unbotek	
300-1500	ek abotek	Anboit - An	F/1500	30 south	
1500-100000	A pitt wotek	Anboten Anbo	Jek Ibotek	30	

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

### Where

Pd= Power density in mW/cm<sup>2</sup>

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. 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	Tune up		Max. Tune	Antenna	Power density	Power density	
	Power	tolerance		up Power	Gain	at 20cm	Limits	
	(dBm)	(dBm)		(dBm)	(dBi)	(mW/cm <sup>2</sup> )	(mW/cm <sup>2</sup> )	
BDR+EDR	-2.79	-2.79	±1	-1.79	-0.68	0.0001	botek1 Anb	

Result: No Standalone SAR test is required.

#### Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 0755–26066440 Fax:(86) 0755–26014772 Email:service@anbotek.com Hotline 400–003–0500 www.anbotek.com.cn

