

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

FCCID	2AH9Q-BTD01				
EUT Anboten And	2AH9Q-BTD01				
Frequency band (Operating)	⊠ BT: 2.402GHz ~ 2.480GHz				
otek Antotek	☐ WLAN: 2.412GHz ~ 2.462GHz				
Tupotek Aup	☐ RLAN: 5.180GHz ~ 5.240GHz				
Polek Aupole All	☐ RLAN: 5.260GHz ~ 5.320GHz				
And tek Anbotek An	☐ RLAN: 5.500GHz ~ 5.700GHz				
Aupo, K. Potek	☐ RLAN: 5.745GHz ~ 5.825GHz				
k Anboter And	☐ Others:				
Device category	☐ Portable (<20cm separation)				
otek Anboren	⊠ Mobile (>20cm separation)				
Anborek Anbo	Others Others				
Exposure classification	☐ Occupational/Controlled exposure				
Yun	☐ General Population/Uncontrolled exposure				
Antenna diversity	⊠ Single antenna				
sk Aupole, Au	☐ Multiple antennas				
rek nbotek Anbo	☐ Tx diversity				
po. A. Sotek Aupote.	☐ Rx diversity				
Anboten And	☐ Tx/Rx diversity				
Antenna gain (Max)	2.59 dBi				
Evaluation applied	⊠ MPE Evaluation				
Anbo K hotek	☐ SAR Evaluation				

Limits for Maximum Permissible Exposure(MPE)

Electrical Electric	111.	16 VO 0	The state of the s	
Electric Field	Magnetic Field	Power	Average Time	
Strength(V/m)	Strength(A/m)	Density(mW/cm ²)		
(A) Limits for	Occupational/Contro	ol Exposures	Aup	
"pole" - Vun	F/300		rek Gupore	
"potek Aupor	- notek	Anbore 5	tek 6 nbotek	
(B) Limits for Ger	neral Population/Unc	ontrol Exposures	"upo" K Pole	
And OK	"potek Aupor	F/1500	Aupote 30	
Vupose.	W. Viek- Wupo	Jun 16k	30 An	
12	Strength(V/m) (A) Limits for	Strength(V/m) Strength(A/m) (A) Limits for Occupational/Control	Strength(V/m) Strength(A/m) Density(mW/cm²) (A) Limits for Occupational/Control Exposures F/300 5 (B) Limits for General Population/Uncontrol Exposures	







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. 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.

Measurement Result

Operating Mode	Maximum output power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm²)	Power density Limits (mW/cm²)
BLE	2.47	2.47 ±1	3.47	2.59	0.0008	otek 1 Ar

Result: No Standalone SAR test is required.



Hotline

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