

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

FCC ID	2A6K7-EF100
EUT-k Anbotek Anbe	LED Light
Frequency band (Operating)	⊠ BT BLE: 2.402GHz ~ 2.480GHz
Anbore K All Totak Anbo	☐ WLAN: 2.412GHz ~ 2.462GHz
Anboten Anb	☐ RLAN: 5.180GHz ~ 5.240GHz
ek nbotek Anbot A	☐ RLAN: 5.260GHz ~ 5.320GHz
ak botek Anbote	☐ RLAN: 5.500GHz ~ 5.700GHz
porter And otek Anbotek	☐ RLAN: 5.745GHz ~ 5.825GHz
Anbotek Anbo. A. botek	☐ Others:
Device category	☐ Portable (<20cm separation)
All Anbotek Anbotek Anbo	⊠ Mobile (>20cm separation)
And aborek An	Others
Exposure classification	☐ Occupational/Controlled exposure
otek Anbore And	⊠ General Population/Uncontrolled exposure
Antenna diversity	⊠ Single antenna
Aupo, botek Wipole	☐ Multiple antennas
Anbore And Otek Anbor	☐ Tx diversity
Anbotek Anbo	Rx diversity
4 botek Anbore Am	☐ Tx/Rx diversity
Antenna gain (Max)	0.78dBi
Evaluation applied	⊠ MPE Evaluation
shorek Anbors Aris	☐ SAR Evaluation

Limits for Maximum Permissible Exposure(MPE)

V.E	0.00	VK POOL B	A V TI LOTON	
Electric Field	Magnetic Field	Power	Average Time	
Strength(V/m)	Strength(A/m)	Density(mW/cm ²)	Ant tek nbo	
(A) Limits fo	r Occupational/Contr	ol Exposures	Anbo	
Anbore - Ant	ek naotek	F/300	Anb 6	
Anborek Anbo	ek - botek	Anbore 5	6 010	
(B) Limits for Ge	neral Population/Und	control Exposures	tek abotek	
r - rotek	Aupoter - Aug	F/1500	30	
Pup.	"potek Whoo,	1 1 1 notek	Anbore 30 And	
	(A) Limits fo	Strength(V/m) Strength(A/m) (A) Limits for Occupational/Contr	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)
ntek BLE nbotek	2.71	2.71 ±1	3.71	0.78	0.0006	1 Anbo

Result: No Standalone SAR test is required.



Hotline

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