

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 Anboren Arrest	2A7VD-H6097
EUT Anbotell Anbo	Govee TV Backlight 3 Lite
Frequency band (Operating)	 ☑ BT: 2.402GHz ~ 2.480GH ☐ WLAN: 2.412GHz ~ 2.462GHz ☐ RLAN: 5.180GHz ~ 5.240GHz ☐ RLAN: 5.260GHz ~ 5.320GHz ☐ RLAN: 5.500GHz ~ 5.700GHz ☐ RLAN: 5.745GHz ~ 5.825GHz ☐ Others:
Device category	☐ Portable (<20cm separation) ☐ Mobile (>20cm separation) ☐ Others
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm2)☑ General Population/Uncontrolled exposure (S=1mW/cm2)
Antenna diversity	 Single antenna Multiple antennas Tx diversity Rx diversity Tx/Rx diversity
Antenna gain (Max)	3.18 dBi
Evaluation applied	





Limits for Maximum Permissible Exposure(MPE)

		-70~	1		
Frequency	Electric Field	Field Magnetic Field F		Average	
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)	Time	
k Aupoter	(A) Limits for (Occupational/Contr	ol Exposures	Pup.	
300-1500	Aupo K	hotek - Anbote	F/300	botek 6 Ar	
1500-100000	k Arbole	Arthores Arib		,,ot 6	
Anbore. Am	(B) Limits for Gene	eral Population/Und	control Exposures	Am	
300-1500	- botek	Auport A	F/1500	6	
1500-100000	inbor - Ar	k Alpoter	And ek 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	Tune up	Max. Tune	Antenna	Power density	Power
	Power	tolerance	up Power	Gain	at 20cm	density Limits
	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm2)	(mW/cm2)
BLE	-0.70	-0.70 ±1	0.30	3.18	0.0004	1 tek

Result: No Standalone SAR test is required.



Hotline

www.anbotek.com.cn

400-003-0500