

## 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 AMBOTE ATTENT	2A7VD-H605A
EUT Anbotek Anbo	Govee TV Backlight 3 Lite Kit
Frequency band	⊠ BT: 2.402GHz ~ 2.480GHz
(Operating)	☐ WLAN: 2.412GHz ~ 2.462GHz
Anborek Anbo	☐ RLAN: 5.180GHz ~ 5.240GHz
ak abotek Anbote A	☐ RLAN: 5.260GHz ~ 5.320GHz
Antotek Anboten	☐ RLAN: 5.500GHz ~ 5.700GHz
poter And tek abotek	☐ RLAN: 5.745GHz ~ 5.825GHz
nbotek Anbor A Anbore	☐ Others:
Device category	☐ Portable (<20cm separation)
And tek anbotek Anbo	⊠ Mobile (>20cm separation)
Anbo. Ak botek Ar	Others
Exposure classification	☐ Occupational/Controlled exposure
otek Anbotek Anbo	⊠ General Population/Uncontrolled exposure
Antenna diversity	⊠ Single antenna
Anbore An anboten	☐ Multiple antennas
Anboten Anb	☐ Tx diversity
abotek Anbo. An	☐ Rx diversity
k hotek Anboten An	☐ Tx/Rx diversity
Max. output power	BLE: 4.14 dBm 0.0026 W
Antenna gain (Max)	3.18 dBi
Evaluation applied	⊠ MPE Evaluation
notek Anboren Anbo	☐ SAR Evaluation



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Limits for Maximum Permissible Exposure(MPE)

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Frequency	Electric Field	Magnetic Field	Magnetic Field Power Density	
Range(MHz)	Strength(V/m)	Strength(A/m) (mW/cm²)		All anboi
k Aupoter.	(A) Limits for	Occupational/Con	trol Exposures	And
300-1500	Vupo, - M.	lek Alpole	F/300	100 6 A
1500-100000	Anbores And	tek -nbotek	Anbo 5	6
Anbore And	(B) Limits for Gen	eral Population/Ur	ncontrol Exposures	otek Anbotek
300-1500	ek -botek	Auport - Air	F/1500	30
1500-100000	Dr. Air	Anbore Anbo	lok 1botek	Ambo 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/cm²)	(mW/cm²)
BLE	4.14	4.14 ±1	5.14	3.18	0.0014	botel Anb

Result: No Standalone SAR test is required.



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400-003-0500