# Anbotek Product Safety

## **RF EXPOSURE EVALUATION**

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)

## FCC ID: 2A7VD-H6063

## **EUT Specification**

EUT net unborek A	Govee Gaming Wall Light
Frequency band	⊠WLAN: 2.412GHz ~ 2.462GHz
(Operating)	🗆 RLAN: 5.18GHz ~ 5.24GHz / 5.50GHz ~ 5.70GHz
wotek Anboten Anbo	🗆 RLAN: 5.745GHz ~ 5.825GHz
Anbe tek abotek Anbois	⊠ Others: BLE: 2.402GHz~2.480GHz
Device category	□ Portable (<20cm separation)
Anboten Anu stek	⊠Mobile (>20cm separation)
tek pootek Anbo. A	Others
Exposure classification	Occupational/Controlled exposure
nbore Ann otek nborek	General Population/Uncontrolled exposure
Antenna diversity	☐ Single antenna
anbotek Anboit Air	⊠ Multiple antennas
Air hotek Anboter Anu	□ Tx diversity
Anti-	□ Rx diversity
tok Anbo, A. hotek	□ Tx/Rx diversity
Max. output power	BLE: 2.34dBm (0.0017W)
stek sphotek Anbo	WLAN: 14.65dBm (0.0292W)
Antenna gain (Max)	BLE: 2.45dBi
Anbore Attractick anbor	WLAN: 1.54dBi
Evaluation applied	MPE Evaluation
ek nbotek Anbor Air	□ SAR Evaluation

Limits for Maximum Permissible Exposure(MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time
Anbor A.	(A) Limits for (	Occupational/Con	trol Exposures	botek Anbore
300-1500	stek upotek	Anbo	F/300	Annu stel 6 mb
1500-100000	inbo	Anbort Am	atek 5 potek	And 6k
wet whotek (B	) Limits for Gene	ral Population/Ur	ncontrol Exposur	es Anboin P
300-1500	Anboten Anb	vek - abotek	F/1500	30
1500-100000	t abatek A	notek	Anboren Anb	30

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## 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.

Operating Mode	Measured Power (dBm)	Tune up tolerance (dBm)		Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm <sup>2</sup> )	Power density Limits (mW/cm <sup>2</sup> )
BLE	2.34	2.34	P±1	3.34	2.45	0.0008	Lotek 1 Anbo
WLAN	14.65	14.65	±1 <sup>nk</sup>	15.65	1.54	0.0104	Anna otel

## Max Measurement Result

No. Applicable Simultaneous Transmission

1. BLE+WLAN

The Maximum simultaneous transmission for BLE+WLAN:

$$\sum_{i} \frac{S_i}{S_{Limit,i}}$$

```
=S<sub>BLE</sub>/S<sub>limit-2.4</sub>+ S<sub>WLAN</sub>/S<sub>limit-2.4</sub>
=0.0008/1+0.0104/1
=0.0112
< 1.0
```

### Result: No Standalone SAR test is required.

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