

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-H70A3

EUT Specification

EUT Notek A	Govee Outdoor Strip Light Pro
Frequency band	⊠WLAN: 2.412GHz ~ 2.462GHz
(Operating)	□ WLAN: 5.18GHz ~ 5.24GHz / 5.50GHz ~ 5.70GHz
ntek Anbotek Anbo	□ WLAN: 5.745GHz ~ 5.825GHz
Anbore Anbore	⊠ Others: BLE: 2.402GHz~2.480GHz
Device category	☐ Portable (<20cm separation)
Anbotes And And	⊠Mobile (>20cm separation)
tek abotek Anbo. A	☐ Others
Exposure classification	☐ Occupational/Controlled exposure
pote And stek anbotek	⊠ General Population/Uncontrolled exposure
Antenna diversity	☐ Single antenna
abotek Anbot k All	⊠ Multiple antennas
Anbotek Anboten Anti	☐ Tx diversity
Anti-	☐ Rx diversity
ek Aupo, W. Wotek	☐ Tx/Rx diversity
Max. output power	BLE: -4.71dBm (0.0003W)
tek nbotek Anbo	WiFi 2.4G: 13.68dBm (0.0233W)
Antenna gain (Max)	BLE: 3.23 dBi
Anbore Ant arek anbore	WiFi 2.4G : 3.85 dBi
Evaluation applied	⊠MPE Evaluation
ak shotek Anbor An	☐ SAR Evaluation

Limits for Maximum Permissible Exposure(MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Average Time
Aupor K Air	100	Occupational/Con	trol Exposures	potek Anborek
300-1500	tek nbotek	Vupo, K	F/300	Amb del 6
1500-100000	hotek	Anbore An	niek 5 mbotek	Anba 6k
botek (B) Limits for Gene	ral Population/Ur	ncontrol Exposur	es Anbor
300-1500	Anbores Anb	tek - abotek	F/1500	30
1500-100000	- onbatek Al	bo, bolek	Anbore And	30 pores







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.

Max Measurement Result

Operating Mode	Measured 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	-4.71	-4.71	P±1	-3.71	3.23	0.0002	botek 1 Anbo
WiFi 2.4G	13.68	13.68	±1 ^{nb}	14.68	3.85	0.0142	arel A

The WLAN 2.4G and BLE can transmit simultaneously:

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

=SBLE/Slimit-BLE + SWiFi 2.4G/Slimit-WiFi 2.4G

=0.0002/1+0.0142/1

=0.0144

< 1.0

Result: No Standalone SAR test is required.



Hotline