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-H608A

EUT Specification

EUT net npotek	Govee String Downlights
Frequency band	⊠ WLAN: 2.412GHz ~ 2.462GHz
(Operating)	□ WLAN: 5.18GHz ~ 5.24GHz / 5.50GHz ~ 5.70GHz
wotek Anbotek Anbo	□ WLAN: 5.745GHz ~ 5.825GHz
Anbe tek abotek Anboit	⊠ Others: BLE: 2.402GHz~2.480GHz
Device category	□ Portable (<20cm separation)
A Anboten Ano	⊠Mobile (>20cm separation)
tek pootek Anboi Ai	
Exposure classification	Occupational/Controlled exposure
npote. And stek anbotek	General Population/Uncontrolled exposure
Antenna diversity	□ Single antenna
abotek Anbote Ani	⊠ Multiple antennas
Alle Lotek Anboten Anbo	□ Tx diversity
And tek nbotek An	Rx diversity
tek Anboir All untek	Tx/Rx diversity
Max. output power	BLE: 2.49dBm (0.0018W)
tek obořek Anbo	WiFi 2.4G: 16.72dBm (0.0470W)
Antenna gain (Max)	BLE: 3.77 dBi
Anbote, And stek anbote	WiFi 2.4G: 3.98 dBi
Evaluation applied	MPE Evaluation
ek abotek Anbore 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/cm ²)	Average Time
Anbor	(A) Limits for (Occupational/Con	trol Exposures	botek Anbore
300-1500	stek upotek	Anbo	F/300	And stell and
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/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.

Operating Mode	Measured Power (dBm)	Tune tolera (dBr	nce	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm ²)	Power density Limits (mW/cm ²)
BLE	2.49	2.49	±1	3.49	3.77	0.0011	wotek 1 Anbo
WiFi 2.4G	16.72	16.72	±1 ^{nh}	17.72	3.98	0.0294	ine otel

Max Measurement Result

The WLAN 2.4G and BLE can transmit simultaneously:

S; S_{Limit.i}

=SBLE/Slimit-BLE + SWiFi 2.4G/Slimit-WiFi 2.4G =0.0011/1+0.0294/1 =0.0305

< 1.0

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