

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	2A7VD-H6603
EUTek Anboten Anbo	Govee AI Sync Box Kit 2
Frequency band (Operating)	BLE: 2.402GHz ~ 2.480GH
Anbor Ann wotek Ant	🛛 🖾 WLAN: 2.412GHz ~ 2.462GHz
Anboten Anbo	🗌 RLAN: 5.180GHz ~ 5.240GHz
ack abotek Anbor	🗌 RLAN: 5.260GHz ~ 5.320GHz
k hotek Anboten	🗌 RLAN: 5.500GHz ~ 5.700GHz
poter And tek abotek	🗌 RLAN: 5.745GHz ~ 5.825GHz
anbotek Anbo. A hote	Others:
Device category	Portable (<20cm separation)
And otek unbotek Anb	⊠ Mobile (>20cm separation)
Anbo wet spotek	Others
Exposure classification	Occupational/Controlled exposure (S = 5mW/cm2)
otek Anboten Anbe	General Population/Uncontrolled exposure (S=1mW/cm2)
Antenna diversity	🗌 Single antenna
Anbor Ar hotek Anbore	🖂 Multiple antennas
Anbote: Ant stek anbo	Tx diversity
Anbotek Anbo Ak	Rx diversity
K hotek Anbote A	Tx/Rx diversity
Antenna gain (Max)	BLE: 2.58dBi
poter And ak abotek	Wi-Fi 2.4G: 5.37dBi
Evaluation applied	⊠ MPE Evaluation
printek Anboten Anbo	SAR Evaluation

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Anbotek Product Safety

Limits for Maximum Permissible Exposure(MPE)

Frequency	Electric Field	Magnetic Field	Power	Average Time	
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)		
L Anboten	(A) Limits for C	Occupational/Contr	ol Exposures	ster Anbo	
300-1500	Aupo. A.	hotek - Anbote	F/300	botek 6 An	
1500-100000	K AIMOIO	Ann stek	5		
nborb Am	(B) Limits for Gene	eral Population/Unc	ontrol Exposures	Am	
300-1500	Let - abotek	Anbor	F/1500	6	
1500-100000	nbor An	K AUDOTEN	Anb 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 Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm2)
	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm2)	(mvv/cmz)
BLE	-0.19	-0.19 ±1	0.81	2.58	0.0004	Ann 1. tek
WiFi 2.4G	12.97	12.97 ±1	13.97	5.37	0.0171	And

The Maximum simultaneous transmission for BLE+WiFi 2.4G:

=S_{BLE}/S_{limit-2.4}+ S_{WLAN}/S_{limit-2.4} =0.0004/1+0.0171/1 =0.0175 < 1.0

Result: No Standalone SAR test is required.

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