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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

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FCCID	2A7VD-H6076
EUT Anboten And	Govee RGBICW Floor Lamp Basic / Govee RGBICW
ok spotek Anbor	Floor Lamp Lite
Frequency band (Operating)	⊠ BT: 2.402GHz ~ 2.480GHz
hooten And	🛛 WLAN: 2.412GHz ~ 2.462GHz
botek Anbore Ar	RLAN: 5.180GHz ~ 5.240GHz
Ant Anbotek Anbotek	□ RLAN: 5.260GHz ~ 5.320GHz
Anbor ok sbotek	RLAN: 5.500GHz ~ 5.700GHz
Anbote. Ant	RLAN: 5.745GHz ~ 5.825GHz
tek nootek Ando	Others:
Device category	□ Portable (<20cm separation)
Anboten And Lek	Mobile (>20cm separation)
abotek Anbor A	Others And And
Exposure classification	Occupational/Controlled exposure (S = 5mW/cm2)
And	General Population/Uncontrolled exposure (S=1mW/cm2)
Antenna diversity	☐ Single antenna
stek Anbotek Anbo	⊠ Multiple antennas
oten Anbe hotek Anbe	Tx diversity
Anboten Ann tek	Rx diversity
nbotek Anbo	Tx/Rx diversity
Antenna gain (Max)	BLE: 2.42dBi
And	WiFi 2.4G: 3.98dBi
Evaluation applied	MPE Evaluation
	SAR Evaluation

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NDOTEK Product Safety

Limits for Maximum Permissible Exposure(MPE)

	D.I.	10.5	9 V.	~ U~					
Frequency	Electric Field	Magnetic Field	Power noter	Average					
Range(MHz)	Strength(V/m)	gth(V/m) Strength(A/m) Density		Time					
(A) Limits for Occupational/Control Exposures									
300-1500	botek - Anbo	Am	F/300	6					
1500-100000	Ann	hotek - Anbo	5 otek	Anbor 6					
(B) Limits for General Population/Uncontrol Exposures									
300-1500	300-1500		F/1500						
1500-100000	rek - abotek	Anbo	botek 1 Anboto	30					
V. NO	be be	Le.	VUN	10					

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

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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

	- O		- 0 -	D.		10° - 0P	
	Operating Mode	Measured	Tune up	Max. Tune	Antenna	Power density	Power
		Power	tolerance	up Power	Gain	at 20cm	density Limits
6	NIOCE	(dBm)	dBm) Mar	(dBm)	(dBi)	(mW/ cm2)	(mW/cm2)
,0	Wet BLE Anb	1.78	1.78 ±1	2.78	2.42	0.0007	ATOOLO
	WiFi 2.4G	16.11	16.11 ±1	17.11	3.98	0.0256	K 1 Anboten
	~0~	5.4	1-01-	D		10°.	

The simultaneous transmission for BLE + WiFi 2.4G:

S_{Limit.i}

=S_{BLE}/S_{limit-BLE}+ S_{WiFi 2.4G}/S_{limit-2.4G} =0.0007/1+0.0256/1 =0.0263 < 1.0

Result: PASS

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