

## MAXIMUM PERMISSIBLE EXPOSURE

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)

## FCC ID: 2ACZO-USR-S100

# **EUT Specification**

EUT Anboten Anbo	Data collection stick						
Frequency band	WLAN: 2.412GHz ~ 2.462GHz						
(Operating)	WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz						
Anboten Anbo	WLAN: 5.745GHz ~ 5825GHz						
ak abotek Anbort Al	Others: BLE: 2402-2480MHz						
Device category	□ Portable (<20cm separation)						
poter And tek anbotek	⊠Mobile (>20cm separation)						
anbotek Anbo, A hotek	Others						
Exposure classification	Occupational/Controlled exposure						
Ant otek unbotek Anbo	General Population/Uncontrolled exposure						
Antenna diversity	⊠Single antenna						
k Anbois Ann wotek	Multiple antennas						
otek Anboten Anbo	□ Tx diversity						
tak spotek Anboi k	Rx diversity						
unboin An sotek Anboten	□ Tx/Rx diversity						
Max. output power	13.71 dBm (0.0235W)						
Antenna gain (Max)	1.32 dBi						
Evaluation applied	⊠ MPE Evaluation						
Arris otek Anbotek	□ SAR Evaluation						

#### Limits for Maximum Permissible Exposure(MPE)

Frequency	Electric Field	Magnetic Field	Power Density	Average Time	
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm <sup>2</sup> )	hotek Anbore	
Anbore An	(A) Limits for	Occupational/Cont	rol Exposures	And otek Anbot	
300-1500	hnbo ok - botek	Anborn	F/300	And 6	
1500-100000	Anbore - An	ek hrenden	and sk 5 abotek	Anto 6	
nbort Ain sotek	(B) Limits for Gen	eral Population/Un	control Exposures	rek Anboten	
300-1500	k abatek Ar	por pri votek	F/1500	30 30	
1500-100000	- notek	Anboren Anbo	4 abdrek Ar	30	
	10	N. 140'			

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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.

### **Measurement Result**

Operating Mode	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits
	(dBm)	(dBm)	(dBm)	(dBi)	(mW/cm <sup>2</sup> )	(mW/cm² )
WiFi 2.4G	13.71	13.71 ±1	14.71	1.32	0.0080	abolek p

Result: No Standalone SAR test is required.

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