

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: 2AY7J-MINI2

EUT Specification

EUT Nek Anbotek A	3D Scanner
Frequency band	☐ WLAN: 2.412GHz ~ 2.462GHz
(Operating)	⊠ RLAN: 5.150GHz ~ 5.250GHz
nek Anbotek Anbo	☐ RLAN: 5.745GHz ~ 5825GHz
Anborek Anbore	☐ Others
Device category	☐ Portable (<20cm separation)
Anboten And	⊠ Mobile (>20cm separation)
tek obotek Anbor A	☐ Others
Exposure classification	☐ Occupational/Controlled exposure
pote, Aug stek aupotek	⊠ General Population/Uncontrolled exposure
Antenna diversity	☐ Single antenna
sbotek Anbore And	⊠ Multiple antennas
Annotek Anbotek Anbo	☐ Tx diversity
Anbe An	☐ Rx diversity
ek Anbore An	☐Tx/Rx diversity
Max. output power	19.61 dBm (0.0914W)
Antenna gain (Max)	ANT1/ANT2: 2.39dBi
Directional antenna gain	5.40dBi
Evaluation applied	⊠MPE Evaluation
Anbotek Anbo Ak	☐ 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	
And tek abot	(A) Limits for (Occupational/Con	trol Exposures	abotek Anbo.	
300-1500	otek Popole,	Amb otek- anboth	F/300	O k hotek 6 Ambore	
1500-100000	otek nbotek	Aup.	otek 5 both	An atel 6 Anbo	
ek anbotek (E	3) Limits for Gene	ral Population/Ur	ncontrol Exposur	es Anno	
300-1500	Pupor F	lek Misoles	F/1500	30	
1500-100000	Anbote Anb	tek abotek	Aupo, 1	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. 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	Maximum output power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm ²)	Power density Limits (mW/cm²)
RLAN	19.61	19.61 ±1	20.61	5.40	0.0794	1 Amb

Result: No Standalone SAR test is required.



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