

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: 2A6K7-NINJA200

EUT Specification

EUT Anbotek Anbo	LED light And
Frequency band	⊠ BT: 2.402GHz ~ 2.480GH
(Operating)	⊠ WLAN: 2.412GHz ~ 2.462GHz
	RLAN: 5.180GHz ~ 5.240GHz
	RLAN: 5.260GHz ~ 5.320GHz
	🗌 RLAN: 5.500GHz ~ 5.700GHz
	RLAN: 5.745GHz ~ 5.825GHz
nbotek Anbo. A. hotek	Others:
Device category	□ Portable (<20cm separation)
	⊠Mobile (>20cm separation)
And Lok shotek An	Others
Exposure classification	Occupational/Controlled exposure
otek Anboten Anbo	General Population/Uncontrolled exposure
Antenna diversity	⊠ Single antenna
	Multiple antennas
	□ Tx diversity
	Rx diversity
s abotek Anbors An	□ Tx/Rx diversity
Max. output power	BLE: 2.77dBm (0.0019W)
oten And tek spotek	WiFi 2.4G: 13.97dBm (0.0249W)
Antenna gain (Max)	BLE: -1.52 dBi
hotek Anbote, Anb	WiFi 2.4G: -1.52 dBi
Evaluation applied	⊠ MPE Evaluation
Anbo Anb	SAR Evaluation

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Anbotek Product Safety

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 ²)	Ant Lotek Anbo
ek Anboten I	(A) Limits for	Occupational/Cont	trol Exposures	And
300-1500	Anbor Ar	lek Antore	F/300	Anto G
1500-100000	Anbore Ann	otek -nbotek	Anbo 5	1ex 6
Anborto Ann	(B) Limits for Gen	eral Population/Un	control Exposures	otek Anbotek
300-1500	Let obotek	Anboit - An	F/1500	30 sootek
1500-100000	pro Ann wotek	Anboten Anbo	tek 1,botek	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.

Max 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/cm2)	(mW/cm2)
BLE	2.77	2.77 ±1	3.77	-1.52	0.0003	p. Brek
WiFi 2.4G	13.97	13.97 ±1	14.97	-1.52	0.0044	alt 1 botek

The BLE and WiFi 2.4G cannot simultaneous transmission.

Result: No Standalone SAR test is required

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