

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)

EUT Specification

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FCC ID	2A2Y8-ALIEN150C
EUT Anboten Ande	LED RGBWW Panel Light
Anto tek nbotek Anbo	BT: 2.402GHz ~ 2.480GHz
Anbo, A. hotek Anbo	WLAN: 2.412GHz ~ 2.462GHz
Frequency band	RLAN: 5.180GHz ~ 5.240GHz
(Operating)	RLAN: 5.260GHz ~ 5.320GHz
(operating)	RLAN: 5.500GHz ~ 5.700GHz
porte Anti-	RLAN: 5.745GHz ~ 5.825GHz
Anboten Anbo ek botek	Others:
abotek Anbois Ali	Portable (<20cm separation)
Device category	Mobile (>20cm separation)
Anti-	Others
Exposure classification	Occupational/Controlled exposure
	General Population/Uncontrolled exposure
otek unbotek Anbo	Single antenna
Anbor pak abotek Anbor	Multiple antennas
Antenna diversity	Tx diversity
Anboten Anbo	Rx diversity
k abotek Anboi Ai.	Tx/Rx diversity
Max. output power	BLE: 2.33 dBm 0.0017W
Antenna gain (Max)	2.32 dBi
Evaluation applied	MPE Evaluation
Evaluation applied	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)	trength(A/m) (mW/cm ²)	
ek Anboten I	(A) Limits for	Occupational/Cont	trol Exposures	And
300-1500	Anbor Ar	or hi hotek Alboten Ano		Anto G
1500-100000	Anbore Ann	stek -nbotek	Anbo 5	1ex 6
Anborto Ann	(B) Limits for Gen	eral Population/Un	control Exposures	otek unbotek
300-1500	Let obotek	Anboit - An	F/1500	30 sootek
1500-100000	pro protek	Anboten Anbo	John Ibotek	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

ek Anboter	Measured	Tune up	Max. Tune	Antenna	Power density	Power density
Operating Mode	Power	tolerance	up Power	Gain	at 20cm	Limits
wode	(dBm)	(dBm)	(dBm)	(dBi)	(mW/cm²)	(mW/cm²)
BLE	2.33	2.33 ±1	3.33	2.32	0.0007	botek Anb

Result: No Standalone SAR test is required.

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