

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

FCC ID	2A2Y8-PAVOSLIM240CL
EUT-k Anbotek Anbo	LED RGBWW Panel Light
Frequency band	⊠ BLE: 2.402GHz ~ 2.480GHz
(Operating)	☐ WLAN: 2.412GHz ~ 2.462GHz
Anboten Anb	☐ RLAN: 5.180GHz ~ 5.240GHz
ak abotek Anbo. k	☐ RLAN: 5.260GHz ~ 5.320GHz
ok hotek Anbote	☐ RLAN: 5.500GHz ~ 5.700GHz
poter And otek Anbotek	☐ RLAN: 5.745GHz ~ 5.825GHz
anbotek Anbo. Ak botel	⊠ SRD 2.4G: 2.402GHz ~ 2.480GHz
Device category	☐ Portable (<20cm separation)
Antotek Anbotek Anb	⊠ Mobile (>20cm separation)
Anbo ok shotek A	□ Others
Exposure classification	☐ Occupational/Controlled exposure
otek Anbote, And	⊠ General Population/Uncontrolled exposure
Antenna diversity	☐ Single antenna
Anbore Anbore	⊠ Multiple antennas
Anbore Ant Otek Anbo	☐ Tx diversity
Anbotek Anbe	☐ Rx diversity
s botek Anbor Al	☐ Tx/Rx diversity
Max. output power	BLE: 1.15dBm (0.0013W)
oten And	SRD 2.4G: 18.63dBm (0.073W)
Antenna gain (Max)	BLE: 2.32dBi
notek Anbots Anb	SRD 2.4G: 3.20dBi
Evaluation applied	⊠MPE Evaluation
Anbo K botek An	☐ 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 ²)	Arr. Anboi
ek Aupoter	(A) Limits for	Occupational/Con	trol Exposures	Ann
300-1500	Vupo, - N.	ek Al-pote,	F/300	6
1500-100000	Aupore Aug	tek -nbotek	Anbo 5	6
Anbore And	(B) Limits for Gen	eral Population/Ur	ncontrol Exposures	otek Anbotek
300-1500	ek -botek	Pupose - Vien	F/1500	30
1500-100000	bir. Diek	Anborer Anbo	lotek 1,00tek	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

p.r	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)
No.	BLE	1.15	1.15 ±1	2.15	2.32	0.0006	nbote 1

SRD 2.4G:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
3.20	2.0893	18.63	72.9458	0.03034	1	Complies

Note: The device does not support simultaneous transmission of BLE & 2.4G SRD.

Result: No Standalone SAR test is required.



