

RF EXPOSURE EVALUATION

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	2ANPB-RCC2430REGO
EUT Anboren And	RENOGY REGO 12V/24V Solar Charge Controller
Frequency band (Operating)	⊠ BLE: 2.402GHz ~ 2.480GHz
otek Anbote	☐ WLAN: 2.412GHz ~ 2.462GHz
upotek Aupo	☐ RLAN: 5.180GHz ~ 5.240GHz
Aupotek Aupote, Aur	☐ RLAN: 5.260GHz ~ 5.320GHz
Aug Sek Upolek	☐ RLAN: 5.500GHz ~ 5.700GHz
Aupor	☐ RLAN: 5.745GHz ~ 5.825GHz
Anbotek Anbo	☐ Others:
Device category	☐ Portable (<20cm separation)
ore All	⊠ Mobile (>20cm separation)
Vupotek Vupo	Others Others
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm2)
And tek Andotek	☐ General Population/Uncontrolled exposure (S=1mW/cm2)
Antenna diversity	⊠ Single antenna
k Auporer Aug	☐ Multiple antennas
otek Anbotek Anbot	☐ Tx diversity
pore Am otek Anbor	☐ Rx diversity
Anbotek Anbo	☐ Tx/Rx diversity
Antenna gain (Max)	1.5 dBi
Evaluation applied	☑ MPE Evaluation
Aupo K Wolek	☐ SAR Evaluation
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Limits for Maximum Permissible Exposure(MPE)

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Frequency	Electric Field	Magnetic Field	Power Novembore	Average					
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)	Time noon					
(A) Limits for Occupational/Control Exposures									
300-1500	Potek - Aupo	W. Tek	F/300	6					
1500-100000	Vun	polek Anbo	5 otek	Anbor 6					
(B) Limits for General Population/Uncontrol Exposures									
300-1500	ALPOPO.	VIII.	F/1500	6 botek					
1500-100000	iek - upotek	Aupo	hotek 1 Anbore	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, 1mW/cm2. 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

k Anbotek	Measured	Tune up	Max. Tune	Antenna	Power density at	Power And
Operating Mode	Power	tolerance	up Power	Gain	20cm	density Limits (mW/cm2)
notek Anbotek	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm2)	(ITIVV/CITIZ)
And IskBLE Anbo	1.62	1.62 ±1	2.62	1.5	0.0005	Alpotek

Result: No Standalone SAR test is required.

