

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	2ANPB-V07G1
EUT Ambor Am	Renogy ONE Vision 7
Lotek Anboren Anb	⊠ BT: 2.402GHz ~ 2.480GH
Anborek Anbore	⊠ WLAN: 2.412GHz ~ 2.462GHz
Anbore And	☐ RLAN: 5.180GHz ~ 5.240GHz
Frequency band (Operating)	☐ RLAN: 5.260GHz ~ 5.320GHz
ek upotek Anbor A	☐ RLAN: 5.500GHz ~ 5.700GHz
k hotek Anboten	☐ RLAN: 5.745GHz ~ 5.825GHz
boter Ann otek Anbotek	☐ Others:
Anbotek Anbo ak botek	☐ Portable (<20cm separation)
Device category	⊠ Mobile (>20cm separation)
Ant otek Anbotek Anbo	☐ Others
Exposure classification	☐ Occupational/Controlled exposure
Exposure classification	⊠ General Population/Uncontrolled exposure
otek Anbote. And	⊠ Single antenna
stek shotek Anbo,	☐ Multiple antennas
Antenna diversity	☐ Tx diversity
Anbore, And stek anbor	☐ Rx diversity
Anbotek Anbo	☐ Tx/Rx diversity
Antenna gain (Max)	0.77dBi for 2400-2500MHz
Evaluation applied Model	⊠ MPE Evaluation
Evaluation applied	☐ SAR Evaluation



Limits for Maximum Permissible Exposure(MPE)

Frequency	Electric Field	Magnetic Field	Power	Average Time		
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)	Air otek Anbo		
k Aupoter P	(A) Limits fo	r Occupational/Contr	ol Exposures	Vug.		
300-1500	Aupo, N.	lek Alpoter	F/300	AUD 6		
1500-100000	Anbore. Ans	rek -nbotek	Anbo 5	rok A6.016		
inpose And otel	(B) Limits for Ge	neral Population/Und	control Exposures	otek Anbotek		
300-1500	ek -botek	Anbore An	F/1500	30		
1500-100000	Die Diek	Anbores Anbo	ak 1,50tek	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

	Maximum	Tune up tolerance (dBm)		Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power	Power
						density at	density
	output power (dBm)					20cm	Limits
						(mW/cm ²)	(mW/cm ²)
BDR+EDR	1.94	1.94	±1	2.94	0.77	0.0005	inboten 1 A
BLE	7.67	7.67	±1	8.67	0.77	0.0017	anbo'th
WiFi 2.4G	17.18	17.18	±1	18.18	0.77	0.0156	10tek

The device cannot simultaneous transmission.

Result: No Standalone SAR test is required.

