

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	2BF4V-PF01
EUT-k Anbotek Anbo	Pet feeder
Frequency band (Operating)	⊠ BLE: 2.402GHz ~ 2.480GH
Anbore All notek anbo	⊠ WLAN: 2.412GHz ~ 2.462GHz
Amboren Ambo	☐ RLAN: 5.180GHz ~ 5.240GHz
ek abotek Anbor A	☐ RLAN: 5.260GHz ~ 5.320GHz
-k Potek Aupoten	☐ RLAN: 5.500GHz ~ 5.700GHz
poter And tek	☐ RLAN: 5.745GHz ~ 5.825GHz
anbotek Anbo, ak Potek	☐ Others:
Device category	☐ Portable (<20cm separation)
And otek Anbotek Anbo	⊠ Mobile (>20cm separation)
Anbo ak aborek An	Others
Exposure classification	☐ Occupational/Controlled exposure
otek Anboten Anb	⊠ General Population/Uncontrolled exposure
Antenna diversity	⊠ Single antenna
Aupo, W. Wolek Vupole.	☐ Multiple antennas
Anbore, And otek anbore	☐ Tx diversity
Anbotek Anbo. Ak	☐ Rx diversity
4 hotek Anbore An	☐ Tx/Rx diversity
Antenna gain (Max)	-0.13dBi
Evaluation applied	
aborek Anbors Air notek	☐ 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)	And tek anbo		
ek anbotek p	(A) Limits fo	r Occupational/Contr	ol Exposures	Aupo. ok		
300-1500	Anbore - Ant	lek vizotek	F/300	And 6		
1500-100000	Anbotek Anbo	- botek	Anbore 5	6 oter		
Anboren Anbo	(B) Limits for Ge	neral Population/Und	control Exposures	tek abotek		
300-1500	r - rotek	Anbores - Anb	F/1500	30		
1500-100000	And Arek	Aupotek Aupot	1 hotek	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

Operating Mode	Maximum output power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm²)	Power density Limits (mW/cm²)
tek BLE nbotek	9.96	9.96 ±1	10.96	-0.13	0.0024	1 Anbo
WiFi 2.4G	22.44	22.44 ±1	23.44	-0.13	0.0427	otek 1 Anb

Note: BT&WiFi cannot support simultaneous transmission.

Result: No Standalone SAR test is required.



Hotline

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