

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	2AOKB-T8224
EUT Anboren Anbo	Video Doorbell C30
And tek nbotek Anbr	☐ BT: 2.402GHz ~ 2.480GH
Anbo. K A botek A	
Anbote, And Stek	☐ RLAN: 5.180GHz ~ 5.240GHz
Frequency band (Operating)	☐ RLAN: 5.260GHz ~ 5.320GHz
ok botek Anbote	☐ RLAN: 5.500GHz ~ 5.700GHz
ote, Aug stek aupotek	☐ RLAN: 5.745GHz ~ 5.825GHz
abotek Anbo. Ak bo	☐ Others:
botek Anbote Ant	☐ Portable (<20cm separation)
Device category	⊠ Mobile (>20cm separation)
Anbo sek sporek	Others
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm2)
Exposure classification	☐ General Population/Uncontrolled exposure (S=1mW/cm2)
tek nbotek Anbo	⊠ Single antenna
upo. K Wolek Wupot	☐ Multiple antennas
Antenna diversity	☐ Tx diversity
Anbotek Anbo	☐ Rx diversity
hotek Anbote	☐ Tx/Rx diversity
Antenna gain (Max)	3.61 dBi
Evaluation applied shotek	☑ MPE Evaluation
Evaluation applied	☐ SAR Evaluation





Limits for Maximum Permissible Exposure(MPE)

		-70~	1		
Frequency	Electric Field	Magnetic Field	agnetic Field Power		
Range(MHz)	Strength(V/m)) Strength(A/m) Density(m		V/cm²) Time	
k Aupoter	(A) Limits for (Occupational/Contr	ol Exposures	Pup.	
300-1500	Aupo K	F/300		botek 6 Ar	
1500-100000	k Arbole	Ans tek-	5	6	
Anbore. Am	(B) Limits for Gene	eral Population/Und	control Exposures	Am	
300-1500	- botek	Auport A	F/1500	6	
1500-100000	inbor - Ar	k Alpoter	And ek 1 abotek	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

ek Anbore	Measured	Tune up	Max. Tune	Antenna	Power density	Power
Operating Mode	Power	tolerance	up Power	Gain	at 20cm	density Limits
	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm2)	(mW/cm2)
WiFi 2.4G	18.67	18.67 ±1	19.67	3.61	0.0424	botek 1 Anb

Result: No Standalone SAR test is required.



Hotline

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