

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	2BGG8-TPCBQ01
EUTex aboten Anbote	Smart Cat Litter Box
Frequency band	BT: 2.402GHz ~ 2.480GHz
(Operating)	🛛 WLAN: 2.412GHz ~ 2.462GHz
unbotek Anbo vek	RLAN: 5.180GHz ~ 5.240GHz
ak abotek Anbore A	RLAN: 5.260GHz ~ 5.320GHz
K sotek Anboten	🗌 RLAN: 5.500GHz ~ 5.700GHz
poten Anbe tek spotek	🗌 RLAN: 5.745GHz ~ 5.825GHz
nbotek Anbor Ar. hotek	Others:
Device category	Portable (<20cm separation)
Ant otek Anbotek Anbo	⊠ Mobile (>20cm separation)
Anbo vek storek A	Others
Exposure classification	Occupational/Controlled exposure
otek anboten Anbo	General Population/Uncontrolled exposure
Antenna diversity	⊠ Single antenna
Anbo. A. hotek Anbote.	Multiple antennas
Anbote: Ant stek anbot	Tx diversity
Anbotek Anbo	Rx diversity
6 botek Anbore An	Tx/Rx diversity
Max. output power	BLE: 0.22 dBm (0.0011W)
oten Anbo	WiFi 2.4G: 12.03 dBm (0.0160W)
Antenna gain (Max)	BLE: 2.54 dBi
hotek Anbote Anb	WiFi 2.4G: 2.54 dBi
Evaluation applied	MPE Evaluation
And 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)	wet wotek	
abotek Anbor	(A) Limits for	Occupational/Cont	rol Exposures	bors Arr	
300-1500	ter Anu ek	abotek Anbor	F/300	Anboren 6 Ano	
1500-100000	botek Anbor	day Marca	5	abone 6 Anto	

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An otek Anbote	(B) Limits for Gene	eral Population	on/Uncon	trol Exposure	Supoten Aupo	- A
300-1500	otek pobot	Arr otek-	anboten	F/1500	30 pm	p01
1500-100000	hotek - Anboter	And	abotek	Inbon	30	Anboten
K Anboten	and wotek anbotek	Anbor	- abot	ek Anboren	K hotek	Anbo

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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.

Operating Mode	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm ²)
abotek Anbo	(dBm)	(dBm)	(dBm)	(dBi)	(mW/cm²)	(mvv/cm-)
hote BLE Anbo	0.22	0.10 ±1	1.22	2.54	0.0005	Anboit P
WiFi 2.4G	12.03	12.34 ±1	13.03	2.54	0.0072	ANTON

Max Measurement Result

BT and 2.4G WIFI cannot support simultaneous transmission.

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