

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-TPCBT01
EUT	Smart Cat Litter Box
Frequency band	BT: 2.402GHz ~ 2.480GHz
	at white a start and at
(Operating)	₩LAN: 2.412GHz ~ 2.462GHz
Ando ok shotek A	RLAN: 5.180GHz ~ 5.240GHz
ek Anbore Ant	RLAN: 5.260GHz ~ 5.320GHz
stek Anbotek Anbo	RLAN: 5.500GHz ~ 5.700GHz
po. A. hotek Anbote.	RLAN: 5.745GHz ~ 5.825GHz
anboten Ant	Others:
Device category	□ Portable (<20cm separation)
An hotek Anboten Anbo	Mobile (>20cm separation)
Anbe lok sbotek Ar	Others
Exposure classification	Occupational/Controlled exposure
otek Anboten Anbo	General Population/Uncontrolled exposure
Antenna diversity	Single antenna
Anbois Anbotes	Multiple antennas
Anboten Anbo	Tx diversity
abotek Anboit An	Rx diversity
All Lotek Anboten An	Tx/Rx diversity
Max. output power	BLE: 0.1 dBm (0.0010W)
otek Anbor Ar hotek	WiFi 2.4G: 12.34 dBm (0.0171W)
Antenna gain (Max)	BLE: 2.54 dBi
nt stek unbotek Anbor	WiFi 2.4G: 2.54 dBi
Evaluation applied	MPE Evaluation
Anbore Art stek ont	SAR Evaluation

Limits for Maximum Permissible Exposure(MPE)

Frequency	Electric Field	Magnetic Field	Power Density	Average Time		
Range(MHz)	Strength(V/m)	rength(V/m) Strength(A/m) (mW/cm ²)		bor he botek		
botek Anbor	(A) Limits for	Occupational/Cont	rol Exposures	hbor An hotel		
300-1500	Ant Ant	abotek - Anbo	F/300	Antonia 6 Anto		
1500-100000	botek -Anbor	pin woker Anb	5	6 Miles		

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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	NO' PIL		Antenna Gain	Power density at 20cm	Power density Limits
abotek Anbor	(dBm)	dBm) رومه	(dBm)	(dBi)	(mW/cm ²)	(mW/cm²)
BLE MOO	0.10	0.10 ±1	1.10 An	2.54	0.0005	Anboit A
WiFi 2.4G	12.34	12.34 ±1	13.34	2.54	0.0077	ANT

Max Measurement Result

BT and 2.4G WIFI cannot support simultaneous transmission.

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