

### 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

EUT       Smart Cat Litter Box         BT: 2.402GHz ~ 2.480GHz         WLAN: 2.412GHz ~ 2.462GHz         RLAN: 5.180GHz ~ 5.240GHz         RLAN: 5.180GHz ~ 5.240GHz         RLAN: 5.260GHz ~ 5.320GHz         RLAN: 5.500GHz ~ 5.700GHz         RLAN: 5.745GHz ~ 5.825GHz         Others:         Others:         Others         Others         Occupational/Controlled exposure         General Population/Uncontrolled exposure         Single antenna         Multiple antennas         Multiple antennas         Rx diversity         Rx diversity         Antenna gain (Max)       2.54 dBi         Evaluation applied       MPE Evaluation	A. otek Anbote	And
Frequency band (Operating)       BT: 2.402GHz ~ 2.480GHz         RLAN: 2.412GHz ~ 2.462GHz         RLAN: 5.180GHz ~ 5.240GHz         RLAN: 5.260GHz ~ 5.320GHz         RLAN: 5.500GHz ~ 5.700GHz         RLAN: 5.745GHz ~ 5.825GHz         Others:         Portable (<20cm separation)         Mobile (>20cm separation)         Others         Occupational/Controlled exposure         General Population/Uncontrolled exposure         Single antenna         Multiple antennas         Tx diversity         Tx diversity         Rx diversity         Zx/Rx diversity         Antenna gain (Max)         Evaluation applied	FCC ID Antoo Antoo Antoo	2BGG8-TPCBQA01
Frequency band (Operating)              \u03cm KLAN: 2.412GHz ~ 2.462GHz	EUTek Anboten Anb	Smart Cat Litter Box
Frequency band (Operating)       RLAN: 5.180GHz ~ 5.240GHz         RLAN: 5.260GHz ~ 5.320GHz         RLAN: 5.500GHz ~ 5.700GHz         RLAN: 5.745GHz ~ 5.825GHz         Others:         Others:         Device category         Mobile (>20cm separation)         Others         Others         Occupational/Controlled exposure         General Population/Uncontrolled exposure         Single antenna         Multiple antennas         Multiple antennas         Multiple antennas         Multiple antennas         Tx diversity         Tx diversity         Tx/Rx diversity         MIPE Evaluation	And tek abotek Anbor	BT: 2.402GHz ~ 2.480GHz
Frequency band (Operating) <ul> <li>RLAN: 5.260GHz ~ 5.320GHz</li> <li>RLAN: 5.500GHz ~ 5.700GHz</li> <li>RLAN: 5.745GHz ~ 5.825GHz</li> <li>Others:</li> </ul> Device category <ul> <li>Portable (&lt;20cm separation)</li> <li>Others</li> <li>Others</li> <li>Others</li> </ul> Exposure classification <ul> <li>Occupational/Controlled exposure</li> <li>General Population/Uncontrolled exposure</li> <li>Single antenna</li> <li>Multiple antennas</li> <li>Tx diversity</li> <li>Tx diversity</li> <li>Tx/Rx diversity</li> </ul> Antenna gain (Max)         2.54 dBi             Evaluation applied <ul> <li>MPE Evaluation</li> </ul>	Anbore All otek Anb	🖂 WLAN: 2.412GHz ~ 2.462GHz
□ RLAN: 5.500GHz ~ 5.700GHz         □ RLAN: 5.745GHz ~ 5.825GHz         □ Others:         □ Portable (<20cm separation)         □ Mobile (>20cm separation)         □ Others         ■ Occupational/Controlled exposure         □ General Population/Uncontrolled exposure         □ Multiple antenna         □ Multiple antennas         □ Multiple antennas         □ Tx diversity         □ Tx/Rx diversity         □ Tx/Rx diversity         ■ MPE Evaluation	Anboten Anbo	RLAN: 5.180GHz ~ 5.240GHz
Image: Constraint of the state of the s	Frequency band (Operating)	RLAN: 5.260GHz ~ 5.320GHz
□ Others:         □ Portable (<20cm separation)         □ Mobile (>20cm separation)         □ Others         ■ Occupational/Controlled exposure         □ Occupational/Controlled exposure         □ General Population/Uncontrolled exposure         □ Single antenna         □ Multiple antennas         □ Multiple antennas         □ Tx diversity         □ Tx diversity         □ Tx/Rx diversity         □ Tx/Rx diversity         □ XFX diversity         □ MPE Evaluation	k hotek Anboten	🗆 RLAN: 5.500GHz ~ 5.700GHz
Device category       □ Portable (<20cm separation)         □ Mobile (>20cm separation)         □ Others         □ Occupational/Controlled exposure         □ Occupational/Controlled exposure         □ Occupation/Uncontrolled exposure         □ Single antenna         □ Multiple antennas         □ Tx diversity         □ Tx/Rx diversity         □ MPE Evaluation	poten And tek abotek	RLAN: 5.745GHz ~ 5.825GHz
Device category       Mobile (>20cm separation)         Others       Others         Exposure classification       Occupational/Controlled exposure         General Population/Uncontrolled exposure       Single antenna         Multiple antennas       Multiple antennas         Tx diversity       Tx diversity         Antenna gain (Max)       2.54 dBi         Evaluation applied       MPE Evaluation	anbotek Anboir Ar. Ar.	Others:
Others         Exposure classification         Occupational/Controlled exposure         General Population/Uncontrolled exposure         Single antenna         Multiple antennas         Multiple antennas         Tx diversity         Rx diversity         Tx/Rx diversity         Antenna gain (Max)         2.54 dBi         WIPE Evaluation	hotek Anbote Am	□ Portable (<20cm separation)
Exposure classification <ul> <li>Occupational/Controlled exposure</li> <li>General Population/Uncontrolled exposure</li> <li>Single antenna</li> <li>Multiple antennas</li> <li>Tx diversity</li> <li>Tx diversity</li> <li>Tx/Rx diversity</li> </ul> Antenna gain (Max)     2.54 dBi           Evaluation applied <ul> <li>MPE Evaluation</li> </ul>	Device category	⊠ Mobile (>20cm separation)
Exposure classification       General Population/Uncontrolled exposure         General Population/Uncontrolled exposure         Single antenna         Multiple antennas         Tx diversity         Rx diversity         Tx/Rx diversity         Antenna gain (Max)         2.54 dBi         MPE Evaluation	Anbo, wak stotek A	Others
Antenna diversity       Single antenna         Image: Antenna gain (Max)       2.54 dBi         Evaluation applied       MPE Evaluation	Exposure elegation	Occupational/Controlled exposure
Antenna diversity       Multiple antennas         Tx diversity       Tx diversity         Rx diversity       Tx/Rx diversity         Antenna gain (Max)       2.54 dBi         Evaluation applied       MPE Evaluation	Exposure classification	General Population/Uncontrolled exposure
Antenna diversity       Tx diversity         Rx diversity       Tx/Rx diversity         Antenna gain (Max)       2.54 dBi         Evaluation applied       MPE Evaluation	tek abotek Anboi	⊠ Single antenna
Image: Constraint of the second system       Image: Constraint of the second system         Antenna gain (Max)       2.54 dBi         Evaluation applied       Image: Constraint of the second system	Anbore An otek Anboren	☐ Multiple antennas
Image: Constraint of the second se	Antenna diversity	Tx diversity
Antenna gain (Max)     2.54 dBi       Evaluation applied     MPE Evaluation	abotek Anbor An	Rx diversity
Evaluation applied	K hotek Anboten An	Tx/Rx diversity
Evaluation applied	Antenna gain (Max)	2.54 dBi
SAR Evaluation	Evoluction applied	MPE Evaluation
	Evaluation applied	SAR Evaluation

### Limits for Maximum Permissible Exposure(MPE)

	Frequency	Electric Field	Magnetic Field	Power	Average Time
X	Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm <sup>2</sup> )	And stek subot
, el	L subotek I	(A) Limits for	r Occupational/Contro	l Exposures	Anbo
	300-1500	Anbore - Ant	lek haveter	F/300	6
200C	1500-100000	Anboten Anbo	- botek	Anboin 5	lek 6 oten
6	nboten And	(B) Limits for Ge	neral Population/Unco	ontrol Exposures	kek abotek
	300-1500	-k - otek	Anboten And	F/1500	30 30
i.	1500-100000	pro Ann stek	hobotek Anbo	ak 1 hotek	30

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# Friis transmission formula: Pd=(Pout\*G)\(4\*pi\*R2)

#### Where

Pd= Power density in mW/cm<sup>2</sup> 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/cm <sup>2</sup> )	Power density Limits (mW/cm <sup>2</sup> )
BLE	3.01 March	3.01 ±1	4.01	2.54	0.0009	tek 1 Anbo
WiFi 2.4G	14.64	14.64 ±1	15.64	2.54	0.0131	botek 1 Anb

Note: BT&WiFi cannot support simultaneous transmission.

Result: No Standalone SAR test is required.

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