

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 | |

Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 0755–26066440 Fax:(86) 0755–26014772 Email:service@anbotek.com Hotline 400-003-0500 www.anbotek.com.cn





| 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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