

Prüfbericht-Nr.: <i>Test report no.:</i>	CN2384IS 002	Auftrags-Nr.: <i>Order no.:</i>	168416067	Seite 1 von 3 <i>Page 1 of 3</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2023-03-05	
Auftraggeber: <i>Client:</i>	Beijing Kitten&Puppy Technology Co., Ltd. Room Q-101, Floor 2, Q Area, Anning Zhuang Back Street, Haidian District, Beijing, China			
Prüfgegenstand: <i>Test item:</i>	PAWBBY Smart Self-cleaning Cat Litter Box			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	MG-CLB001-US			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 2: Section 2.1091 CFR47 FCC Part 1: Section 1.1310 KDB 447498 D01 General RF Exposure Guidance v06 FCC KDB Publication 865664 D02 v01r02			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2023-03-06			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003427359-001 A003427355-001			
Prüfzeitraum: <i>Testing period:</i>	2023-03-13 - 2023-03-19			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i>	Ausstellungsdatum: <i>Issue date:</i>			
Stellung / Position:	Assistant Project Manager	Stellung / Position:	Reviewer	
Sonstiges / Other:	FCC ID: 2AZYM-MGCLB001US			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

1. Radio Frequency Exposure

RESULT:

Pass

Test standard : FCC Part 2: Section 2.1091
 CFR47 FCC Part 1: Section 1.1310
 KDB 447498 D01 General RF Exposure Guidance v06
 FCC KDB Publication 865664 D02 v01r02

1.1 Product Technical Information

The EUTs is a Smart Self-cleaning Cat Litter Box, which support Wi-Fi 2.4G and Bluetooth Low Energy technology.

For details refer to the User Manual, Technical Description and Circuit Diagram.

General Information of EUT	Value
Kind of Equipment:	PAWBBY Smart Self-cleaning Cat Litter Box
Type Designation:	MG-CLB001-US
FCC ID:	2AZYM-MGCLB001US
Operating Voltage:	AC 100~240V, 50Hz/60Hz by adapter
Operating Temperature Range:	4 °C ~ +40 °C
Power Adapter:	Model: YJS018Z37-1201500U Input: AC 100-240V~50/60Hz, 0.6A Output: DC 12.0V, 1.5A
Technical Specification of Wi-Fi 2.4G	
Characteristic	Description
Frequency Range:	2400 MHz to 2483.5 MHz
Type of Modulation:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n(HT20)
Channel Number:	11 channels for 802.11b/g/n(HT20)
Channel Separation:	5 MHz
Antenna Type:	Integral Antenna
Antenna Gain:	2.5 dBi
Technical Specification of Bluetooth (Low Energy)	
Characteristic	Description
Frequency Range:	2400 MHz to 2483.5 MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Channel Separation:	2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	2.5 dBi

➤ Product Classification

This device defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at 20 cm is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

Max 2.50 dBi for Wi-Fi 2.4G antenna

Max 2.50 dBi for Bluetooth Low Energy antenna

➤ Radio Frequency Exposure Limit

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)
300-1,500	--	--	f/1500
1,500-100,000	--	--	1.0

➤ Radio Frequency Exposure Calculation Formula

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

or:

$$S = \frac{EIRP}{4\pi R^2}$$

where: EIRP = equivalent (or effective) isotropically radiated power

a) RF Exposure Evaluation (worse case) for FCC, stand-alone mode

Mode	*Measured RF Output Power (dBm)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm ²)	FCC Limit (mW/cm ²)
Wi-Fi 2.4G	24.33	26.83	20	0.0959	1.0
Bluetooth Low Energy	6.25	8.75	20	0.0015	1.0

Note:

1. *Wi-Fi 2.4G RF Output Power: Refer to TÜV SÜD Certification and testing (China) Co., Ltd. report 708881974877-00
2. *Bluetooth Low Energy RF Output Power: Refer to TÜV SÜD Certification and testing (China) Co., Ltd. report 708881974888-00

Note: Simultaneous transmissions not supported when in normal use.

➤ Conclusion

Therefore the maximum calculations result of above are meet the requirement of Radio Frequency Exposure (MPE) limit.