

RF Exposure Evaluation Report

Product : Smart Cat Litter Box
Trade mark : N/A
Model/Type reference : UCAT C40 PRO, UCAT C41 PRO,
UCAT C42 PRO
Serial Number : N/A
Report Number : EED32R81430705
FCC ID : 2AHJX-UCATC40PRO
Date of Issue : Feb. 13, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

UBTECH ROBOTICS CORP LTD

**Room 2201, Building C1 Nanshan Smart Park No. 1001 Xueyuan Avenue
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Prepared by:

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2 General Information

2.1 Client Information

Applicant:	UBTECH ROBOTICS CORP LTD
Address of Applicant:	Room 2201, Building C1 Nanshan Smart Park No. 1001 Xueyuan Avenue Changyuan Community Taoyuan Street Nanshan District Shenzhen PRC
Manufacturer:	UBTECH ROBOTICS CORP LTD
Address of Manufacturer:	Room 2201, Building C1 Nanshan Smart Park No. 1001 Xueyuan Avenue Changyuan Community Taoyuan Street Nanshan District Shenzhen PRC
Factory:	UBTECH ROBOTICS CORP LTD BAOAN BRANCH
Address of Factory:	1-2Floor,Block B,Huilongda Industry Park,Shilongzai,Shiyan Street,Baoan District,Shenzhen City,P.R.CHINA

2.2 General Description of EUT

Product Name:	Smart Cat Litter Box
Model No.(EUT):	UCAT C40 PRO, UCAT C41 PRO, UCAT C42 PRO
Trade Mark:	N/A

2.3 Product Specification subjective to this standard

Frequency Range:	BLE/BT: 2402MHz~2480MHz 2.4G Wi-Fi: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz 5G Wi-Fi: U-NII-1: 5150-5250MHz U-NII-3: 5745-5825MHz	
Modulation Type:	BLE: GFSK BT: GFSK, π /4DQPSK, 8DPSK 2.4G Wi-Fi: IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK,BPSK) 5G Wi-Fi: IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)	
Test Power Grade:	Default	
Test Software of EUT:	cmd.exe	
Antenna Type:	PIFA Antenna	
Antenna Gain:	BLE/BT/2.4G Wi-Fi:5.01dBi 5.1GHz: 4.27dBi 5.8GHz: 3.03dBi	
Power Supply:	USB Port:	DC 5V
Sample Received Date:	Aug. 26, 2025	
Sample tested Date:	Aug. 26, 2025 to Feb. 03, 2026	
Remark:	Model No.: UCAT C40 PRO, UCAT C41 PRO, UCAT C42 PRO Only the model UCAT C40 PRO was tested, their electrical circuit design, layout, components used and internal wiring are identical, Only the color of the appearance and lid stripes of the product is different.	

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164, Test Firm Registration No.: 260439

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation

For Stand alone:

Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@BLE	20	3.51	5.01	6.37	4.34	3060.00	0.0014	Pass
@BT	20	6.7	5.01	9.56	9.04	3060.00	0.0030	Pass
@2.4G Wi-Fi	20	13.99	5.01	16.85	48.42	3060.00	0.0158	Pass
@5G Wi-Fi	20	13.48	4.27	15.60	36.31	3060.00	0.0119	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② $ERP = EIRP - 2.15$;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 20cm;
- ⑥ The test data please refer to the report of EED32R81430701, EED32R81430702, EED32R81430703, EED32R81430704 and only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (BT+2.4G Wi-Fi+5G Wi-Fi)= $0.0030+0.0158+0.0119=0.0307 < 1$, it's deemed to fulfil the RF exposure requirement.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***