中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

# TEST REPORT

**Applicant:** **Hytera Communications Corporation Limited**

Address: Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, 518057 China

**FCC ID:** **YAMEDS50**

**Product Name:** **Wall-mounted Docking Station**

**Model Number:** **EDS50, ZCS-HYTE5, EDS51, ZCS-HYTE6**

**Standard(s):** **47 CFR §1.1310, 47 CFR §2.1091, 47 CFR §15.247(i),7 CFR §15.407(f)**

The above equipment has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

**Report Number:** **CR22070003-00F**

**Date Of Issue:** **2022-08-30**

**Reviewed By:** **Sun Zhong**

Sun Zhong

Title: Manager

**Test Laboratory:** **China Certification ICT Co., Ltd (Dongguan)**
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## Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

## Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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# 1. GENERAL INFORMATION

## 1.1 Product Description for Equipment under Test (EUT)

### 1.1.1 General Information:

| | |
|---|---|
| **EUT Name:** | Wall-mounted Docking Station |
| **EUT Model:** | EDS50 |
| **Multiple Model:** | ZCS-HYTE5, EDS51, ZCS-HYTE6 |
| **Rated Input Voltage:** | AC 120V/60Hz |
| **Serial Number:** | CR22070003-RF-S1 |
| **EUT Received Date:** | 2022.07.12 |
| **EUT Received Status:** | Good |
| Note: The Multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer. | |

### 1.1.2 Conducted Output power▲:

| Operation Modes | Operation Frequency (MHz) | Maximum Conducted Power including Tune-up Tolerance (dBm) |
|---|---|---|
| WLAN 2.4G | 2412-2462 | 18 |
| WLAN 5G | 5150-5850 | 15 |
| The Above Parameters were provided by the manufacturer.<br>the 2.4G Wi-Fi,5G Wi-Fi can`t transmit simultaneously. | | |

### 1.1.3 Antenna Information Detail▲:

| Antenna Chain | Manufacturer | Antenna Type | input impedance (Ohm) | Frequency Range | Antenna Gain |
|---|---|---|---|---|---|
| Chain 0 | Hytera Communications Corporation Limited | Dipole | 50 | 2400-2500MHz | 5.0 dBi |
| | | | | 5150-5850MHz | 5.0 dBi |
| Chain 1 | | Dipole | 50 | 2400-2500MHz | 5.0 dBi |
| | | | | 5150-5850MHz | 5.0 dBi |

## 2.1 RF Exposure Evaluation

### 2.1.1Applicable Standard

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

| (B) Limits for General Population/Uncontrolled Exposure | | | | |
|---|---|---|---|---|
| Frequency Range (MHz) | **Electric Field Strength (V/m)** | **Magnetic Field Strength (A/m)** | **Power Density ($mW/cm^2$)** | **Averaging Time (minutes)** |
| 0.3–1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34–30 | 824/f | 2.19/f | *(180/f²) | 30 |
| 30–300 | 27.5 | 0.073 | 0.2 | 30 |
| 300–1500 | / | / | f/1500 | 30 |
| 1500–100,000 | / | / | 1.0 | 30 |

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

### 2.1.2 Calculation formula:

Prediction of power density at the distance of the applicable MPE limit
$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. $mW/cm^2$);
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, the power gain factor, is normally numeric gain;
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

### 2.1.3 Calculated Data:

| **Operation Modes** | **Frequency (MHz)** | **Antenna Gain** | | **Max. Target Power including Tolerance** | | **Evaluation Distance (cm)** | **Power Density ($mW/cm^2$)** | **MPE Limit ($mW/cm^2$)** |
|---|---|---|---|---|---|---|---|---|
| | | **(dBi)** | **(numeric)** | **(dBm)** | **(mW)** | | | |
| WLAN 2.4G | 2412-2462 | 5 | 3.16 | 18 | 63.10 | 20.00 | 0.04 | 1.0 |
| WLAN 5G | 5150-5850 | 5 | 3.16 | 15 | 31.62 | 20.00 | 0.02 | 1.0 |

Note 1: the Max. Target Power including Tolerance was declared by manufacturer.

**Result: Compliance,** The device meets MPE requirement for Devices Used by the General Public (Uncontrolled Environment) at distance ≥20 cm.

**===== END OF REPORT =====**