MPE Report According to

FCC CFR Title 47 Part 15 Subpart C

| Applicant | : | Hangzhou Guoguo Technology Co., Ltd. | | | | | | | |
|--------------|---|--|--|--|--|--|--|--|--|
| Address | : | No.88 jiangnan avenue, xixing street, binjiang district, Hangzhou, Zhejiang,China. | | | | | | | |
| Manufacturer | : | Zhejiang Yusong Technology Co., Ltd. | | | | | | | |
| Address | : | No.1 Qixian Road, Science Park, Liangzhu University, Yuhang district, | | | | | | | |
| | | Hangzhou,Zhejiang,China | | | | | | | |
| Equipment | : | SMART EXPRESS CABINET | | | | | | | |
| Model No. | : | PB1801 | | | | | | | |
| FCC ID | : | 2APPS-PB1801 | | | | | | | |
| Test Period | : | May.16,2018~ May.24, 2018 | | | | | | | |

The test result refers exclusively to the test presented test model / sample.

■ Without written approval of Cerpass Technology Corporation Test Laboratory. the test report shall not be reproduced exc- ept in full.

The test report must not be used by the clients to claim product certification approval by

NVLAP or any agency of the Government.

I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in ANSI C63.10 - 2013, FCC Part15.247 and the energy emitted by this equipment was passed.

Approved by:

NG \square

Mark Liao / Assistant Manager

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory TAF LAB Code:

1439

Radio Frequency Exposure

LIMIT

0

For 2.4G Band: According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

For 5.0G Band: 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 EXPRESS CAB | INET | | | | | |
|---------------------------------|--|-------------|------------|--|--|--|--|
| Frequency band (Operating) | WLAN: 2.412GHz ~ 2.462GHz WLAN: 5.150GHz ~ 5.250GHz WLAN: 5.745GHz ~ 5.825GHz | | | | | | |
| Device category | Portable (<20cm separation) Mobile (>20cm separation) | | | | | | |
| Exposure classification | Occupational/Controlled exposure (S = 5mW/cm²) General Population/Uncontrolled exposure (S=1mW/cm²) | | | | | | |
| Antenna diversity | Single antenna Multiple antennas Tx diversity Rx diversity Tx/Rx diversity | | | | | | |
| | Mode | Power (dBm) | Power (mW) | | | | |
| | IEEE802.11b | 19.40 | 87.10 | | | | |
| Max. output power for 2.4G Band | IEEE802.11g | 23.10 | 204.17 | | | | |
| | IEEE802.11n(20MHz) | 23.01 | 199.99 | | | | |
| | IEEE802.11n(40MHz) | 22.79 | 190.11 | | | | |
| Antenna gain (Max) | 5dBi for 2.4G Band | | | | | | |
| Evaluation applied | MPE Evaluation* | | | | | | |
| Romark. | | | | | | | |

1. The maximum output power is 23.10dBm (0.204W) at 2412MHz (with numeric 3.16antenna gain.) for2.4G band

2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.

3. For mobile or fixed location transmitters, no SAR consideration applied. The maximum power

density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger. *Note: Simultaneous transmission is not applicable for this EUT.

TEST RESULTS

No non-compliance noted.

Calculation

 $E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{3770}$

Where *E* = Field strength in Volts / meter *P* = Power in Watts *G* = Numeric antenna gain *d* = Distance in meters *S* = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$

Equation 1

Where *d* = Distance in cm

P = Power in mWG = Numeric antenna gain

$$S = Power density in mW / cm^2$$



Maximum Permissible Exposure

| Modulation Mode | Frequency band (MHz) | Max. Conducted output power(dBm) | Antenna gain (dBi) | Distance (cm) | Power density (mW/cm ²) | Limit (mW/cm ²) |
|-----------------|-------------------------|--|-----------------------|------------------|---|--------------------------------|
| IEEE802.11b | 2412-2462 | 19.40 | 5 | 20 | 0.0548 | 1 |
| IEEE802.11g | 2412-2462 | 23.10 | 5 | 20 | 0.1284 | 1 |
| IEEE802.11n20 | 2412-2462 | 23.01 | 5 | 20 | 0.1258 | 1 |
| IEEE802.11n40 | 2422-2452 | 22.79 | 5 | 20 | 0.1196 | 1 |