RF TEST REPORT

Product Name: EasyScan T05

Model Name: T05

FCC ID: 2A8YS-T05

Issued For : Wuhan Eleph-Print Tech Co.,Ltd

701, Blk B, Huishang Bldg, 2 Wudayuan Rd, Wuhan, Hubei,China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

Report Number:	LGT24C070HA02
Sample Received Date:	Mar. 19, 2024
Date of Test:	Mar. 19, 2024 – Apr. 12, 2024
Date of Issue:	Apr. 12, 2024

TEST REPORT CERTIFICATION

Applicant:	Wuhan Eleph-Print Tech Co.,Ltd
Address:	701, Blk B, Huishang Bldg, 2 Wudayuan Rd, Wuhan, Hubei,China
Manufacture:	Wuhan Eleph-Print Tech Co.,Ltd
Address:	701, Blk B, Huishang Bldg, 2 Wudayuan Rd, Wuhan, Hubei,China
Product Name:	EasyScan T05
Trademark:	EPiC
Model Name:	T05
Sample Status:	Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR §2.1091 KDB 447498 D01 General RF Exposure Guidance v06	PASS

Prepared by:

Zane Shan

Zane Shan
Engineer

Approved by:

Vita Li
Technical Director

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Revision History

Rev.	Issue Date	Revisions
00	Apr. 12, 2024	Initial Issue

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	EasyScan T05	
Trademark:	EPiC	
Model Name:	T05	
Series Model:	N/A	
Model Difference:	N/A	
Frequency Bands:	5G WLAN	IEEE 802.11a/n(HT20)/ac(VHT20)/ax(HE20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ ac(VHT40)/ax(HE40): 5.190GHz-5.230GHz IEEE 802.11 ac(VHT80)/ax(HE80): 5.210GHz
		IEEE 802.11a/n(HT20)/ ac(VHT20)/ax(HE20): 5.260GHz-5.320GHz IEEE 802.11 n(HT40)/ ac(VHT40)/ax(HE40): 5.270GHz-5.310GHz IEEE 802.11 ac(VHT80)/ax(HE80): 5.290GHz
		IEEE 802.11a/n(HT20)/ ac(VHT20)/ax(HE20): 5.500GHz-5.700GHz IEEE 802.11 n(HT40)/ ac(VHT40)/ax(HE40): 5.510GHz-5.670GHz IEEE 802.11 ac(VHT80)/ax(HE80): 5.530GHz-5.610GHz
		I IEEE 802.11a/n(HT20)/ ac(VHT20)/ax(HE20): 5.745GHz-5.825GHz IEEE 802.11a/n(HT40)/ac(VHT40)/ax(HE40): 5.755GHz-5.795GHz IEEE 802.11 ac(VHT80)/ax(HE80): 5.775GHz
Rating:	Input: DC 10-16.8V	
Battery:	Capacity: 3300mAh Rated Voltage: 14.4V Max.charge Voltage: 16.8V Max.charge Current: 1.65A	
Hardware Version:	T05_V1.0.0	
Software Version:	Easy Point Access T05_V1.00.00_Alpha_(2024.01.30).apk	

1.2 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.
Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1500 – 100000	--	--	1.0

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $Pd = (Pout * G) / (4*pi*r^2)$

Where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.

2.3 EUT OPERATION CONDITION

EUT was enabled to transmit and receive at lowest, middle and highest channels.

2.4 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.

2.5 TEST RESULT

Turn up Result

Mode	Turn up Power
5G WIFI-802.11a	16±1dBm
5G WIFI-802.11n(HT20) MIMO	18±1dBm
5G WIFI-802.11n(HT40) MIMO	18±1dBm
5G WIFI-802.11ac(VHT20) MIMO	17±1dBm
5G WIFI-802.11ac(VHT40) MIMO	17±1dBm
5G WIFI-802.11ac(VHT80) MIMO	16.5±1dBm
5G WIFI-802.11ax(HE20) MIMO	16.5±1dBm
5G WIFI-802.11ax(HE40) MIMO	16±1dBm
5G WIFI-802.11ax(HE80) MIMO	15.5±1dBm

The MPE result of worst mode:

RF Function	Frequency (MHz)	Max Turn up Power (dBm)	Max Turn up Power (mW)	ANT Gain (dBi)	ANT Gain (gain of antenna in linear scale)	Power Density (mW/cm²)	Limit (mW/cm²)	Ratio	Result
5G WIFI-802.11n(HT20) MIMO	5785	19.00	79.43	4.01	2.52	0.040	1	0.040	Pass

Note:

1. The Maximum Power Density is less than the limit, complies with the exemption requirements.

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