



RADIO TEST REPORT

Report No.: STS2008308H07

Issued for

RTX HONG KONG LTD

8TH FL CORPORATION SQUARE, 8 LAM LOK ST., KOWLOON BAY, HK.

RTX
RTX7451
N/A
Г7HX7451
FCC 47 CFR §2.1091

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Test Report Certification

Applicant's Name.....: RTX HONG KONG LTD

Address 8TH FL CORPORATION SQUARE, 8 LAM LOK ST., KOWLOON

BAY, HK.

Manufacturer's Name: RTX HONG KONG LTD

BAY, HK.

Product Description

Product Name....: Wireless Headset Base

Brand Name: RTX

Model Name: RTX7451

Series Model.....: N/A

Standards FCC 47 CFR §2.1091

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Date of Test:

Date of receipt of test item 26 Aug. 2020

Date of Issue...... 22 Sept. 2020

Test Result..... Pass

Testing Engineer

(Chris chen)

Technical Manager:

your she

(Sean she)

Authorized Signatory:

VI. 0. .

(Vita Li)







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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	22 Sept. 2020	STS2008308H07	ALL	Initial Issue





1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Wireless Headset Base		
Brand Name	RTX		
Model Name	RTX7451		
Series Model	N/A		
Model Difference	N/A		
	The EUT is Wireless Headset Base.		
	Operation Frequency:	1921.536-1928.448MHz	
Product Description	Modulation Type:	GFSK	
	Antenna Designation:	PCB Antenna	
	A	Ant A: 1dBi	
	Antenna Gain (dBi):	Ant B: 1dBi	
Adapter	1. Model: S008ACM0500150(Multi Plug) Input: AC 100-240V 50/60Hz 0.3A Output: DC 5V 1.5A 7.5W 2. Model: S008ACU0500150(US Plug) Input: AC 100-240V 50/60Hz 250mA Output: DC 5V 1500mA		
Battery	Model: BP1729/A Brand: Tianmao DC 3.8V 600mAh 2.28Wh		
Hardware Version	V3RA		
Software Version	V0007 B0001		

Note: 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add.: A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ,

Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47 CFR §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	Electric Field	Magnetic Field	Power Density
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm²)
Limits for Occupational /	controlled Exposures		
300 - 1500	-		F/300
1500 – 100000	je .		5.0
Limits for General popula	ation / Uncontrolled Exposu	re	
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/cm² aaa

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.



2.4 TEST RESULT

Turn up

Mode	Detector	Turn up
GFSK	PEAK	19±1dBm

ANT Gain (G)

1dBi (gain of antenna in linear scale=1.26)

Protocol	Output Power to Antenna (mW)	Power Density (mW/cm²)	Limit (mW/cm²)	Result
GFSK	100	0.025	1	Pass

*****END OF THE REPORT***