RF Exposure Evaluation Report

Product	:	Mobile Printer
Trade mark	:	RONGTA
Model/Type reference	:	RPP02A, RPP02B, RPP02A-A, RPP02A-B, RPP02A-C, RPP02A-D, RPP02B-A, RPP02B-B, RPP02B-C, RPP02B-D, RPP02A-BU, RPP02A-BWU, RPP02B-BU, RPP02B-BWU
Serial Number	:	N/A
Report Number	:	EED32J00271703
FCC ID	:	2AD6G-RPP02
Date of Issue	:	Jan. 08, 2018
Test Standards	:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 v06
Test result	:	PASS

Prepared for:

XIAMEN RONGTA TECHNOLOGY CO., LTD.
3F-1/E Building, No.195 Gaoqishe, Gaodian Village,
Dianqian Street Office, Huli District, Xiamen City, China

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Zone, Bao'an 70 District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385

Tested By:	Tom- chen	Compiled by:	Mill chen
	Tom chen (Test Project)		Mill chen (Project Engineer)
Reviewed by:	Kevin Yang	Approved by:	Sheek. Luo
	Kevin yang (Reviewer)		Sheek Luo (Lab supervisor)
Date:	Jan. 08, 2018		Check No.:2447639781

CENTRE TESTING INTERNATIONAL GROUP CO.,LTD. Report Seal

2 Version

Version No.	Date	Description
00	Jan. 08, 2018	Original

3 Contents

4 General Information

4.1 Client Information

Applicant:	XIAMEN RONGTA TECHNOLOGY CO., LTD.
Address of Applicant:	3F-1/E Building, No.195 Gaoqishe, Gaodian Village, Dianqian Street Office, Huli District, Xiamen City, China
Manufacturer:	XIAMEN RONGTA TECHNOLOGY CO., LTD.
Address of Manufacturer:	3F-1/E Building, No.195 Gaoqishe, Gaodian Village, Dianqian Street Office, Huli District, Xiamen City, China
Factory:	XIAMEN RONGTA TECHNOLOGY CO., LTD.
Address of Factory:	3, 4F, C Plant, Gaoqi Industrial Zones, No. 199, Gaoqi Community, Gaodian Village, Huli Xiamen, China

4.2 General Description of EUT

Product Name:	Mobile Printer
Model No.(EUT):	RPP02A, RPP02B, RPP02A-A, RPP02A-B, RPP02A-C, RPP02A-D, RPP02B-A, RPP02B-B, RPP02B-C, RPP02B-D
Test Model No.:	RPP02A
Trade Mark:	RONGTA
EUT Supports Radios application:	BT: 4.0 Dual mode, 2402-2480MHz
Software version of the sample:	A1.1.01
Hardware version of the sample:	P02A-GD-MB-V1.0
Power Supply:	DC7.4V 1600mAh, 11.84Wh by rechargeable Li-ion battery AC100-240V, 50/60Hz, 0.2A by Switching power supply

4.3 Product Specification subjective to this standard

Frequency Range:	2402-2480MHz
Modulation Type:	GFSK
Antenna Type:	PCB
Antenna Gain:	0dBm
Output Power:	-2.955dBm The Maximum Conducted Output Power refers to report EED32J00271701 and report EED32J00271702
Sample Received Date:	Dec. 05, 2017
Sample tested Date:	Dec. 05, 2017 to Dec. 24, 2017
Remark: The tested sample(s) and the sample information are provided by the client. Model No.:RPP02A, RPP02B, RPP02A-A, RPP02A-B, RPP02A-C, RPP02A-D, RPP02B-A, RPP02B-B, RPP02B-C, RPP02B-D, RPP02A-BU, RPP02A-BWU, RPP02B-BU, RPP02B-BWU Only the model RPP02A was tested, since their electrical circuit design, layout, components and internal wiring are identical. Only the model name, appearances and color are different.	

4.4 Test Facility

Test location

The test site a is located on *Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China.* Test site at Centre Testing International Group Co., Ltd has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 06, 2014. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

FCC-Designation No.: CN1164

Centre Testing International Group Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The American association for Centre Testing International Group Co., Ltd. EMC laboratory accreditation Designation No.:CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation[17]

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

The Maximum Conducted Output Power is -2.955dBm;

The best case gain of the antenna is 0dBi.

EIRP= -2.955dBm + 0dBi = -2.955dBm

-2.955dBm logarithmic terms convert to numeric result is nearly 0.51mW

According to the formula. calculate the EIRP test result:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]

General RF Exposure = (0.51mW / 5 mm) x √2.402GHz = 0.158 ①

SAR requirement:

S= 3.0 ② ;

① < ②.

So the SAR report is not required.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32J00271701 for EUT external and internal photos.

*** End of Report ***