Shenzhen Most Technology Service Co., Ltd.
No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

RF Exposure Evaluation Report

Report Reference No......:	**MTWC21110860-H**
FCC ID..... :	**2AD6G-RP421A**
Compiled by (position+printed name+signature)..:	File administrators Alisa Luo
Supervised by (position+printed name+signature)..:	Test Engineer Sunny Deng
Approved by (position+printed name+signature)..:	Manager Yvette Zhou
Date of issue.....:	**December 22, 2021**
Representative Laboratory Name.:	**Shenzhen Most Technology Service Co., Ltd.**
Address.....:	No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.
Applicant's name.....:	**Rongta Technology (Xiamen) Group Co., Ltd.**
Address .....:	**No. 889 Xinmin Avenue, Tongan District, Xiamen, China**
Test specification/ Standard .....**:**	**47 CFR Part 1.1307** **47 CFR Part 2.1093**
TRF Originator.....:	Shenzhen Most Technology Service Co., Ltd.

Test item description .....:	Label Printer
Trade Mark .....:	RONGTA
Manufacturer .....:	**Rongta Technology (Xiamen) Group Co., Ltd.**
Model/Type reference.....:	RP421A
Listed Models .....:	RP421,RP421B,RP421C,RP421D,RP421H,RP421L,RP421M,RP421N,RP421W,RP421Y,P421AC,P421AD,RP421AH, P421AM,P421AL,P421AN,P421AZ, RP421A-X
Modulation Type.....:	GFSK, π/4DQPSK, 8DPSK
Operation Frequency.....:	From 2402MHz to 2480MHz
Hardware Version.....	RP421WBU_GD_V1.0_201113
Software Version	RP421_BWU(BR8051_RX66B)_GD303VCT6_203DPI_ZPL_F4R4_V4.31_211111.bin
Rating .....:	Input：100-240~ 50/60Hz 1.5A Output：24V⎓2.5A
Result.....:	**PASS**

T E S T R E P O R T

Equipment under Test	:	Label Printer
Model /Type	:	RP421A
Listed Models	:	RP421,RP421B,RP421C,RP421D,RP421H,RP421L,RP421M,RP421N,RP421W,RP421Y,P421AC,P421AD,RP421AH, P421AM,P421AL,P421AN,P421AZ, RP421A-X
Remark		Only different in model name and appearance
Applicant	:	**Rongta Technology (Xiamen) Group Co., Ltd.**
Address	:	No. 889 Xinmin Avenue, Tongan District, Xiamen, China
Manufacturer	:	**Rongta Technology (Xiamen) Group Co., Ltd.**
Address	:	No. 889 Xinmin Avenue, Tongan District, Xiamen, China

Test Result:	**PASS**

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2021.12.22	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06
4.3.1. 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.

2.1.2 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

2.1.3 EUT RF Exposure

Measurement Data

BLE

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	-3.981	-3.981±1	-2.981
Middle(2440MHz)	-3.569	-3.569±1	-2.569
Highest(2480MHz)	-3.691	-3.691±1	-2.691

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Lowest(2402MHz)	-3.569	-2.569	0.553	0.173	3.0	Yes

BT classic

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	-4.284	-4.284±1	-3.284
Middle(2441MHz)	-3.965	-3.965±1	-2.965
Highest(2480MHz)	-3.814	-3.814±1	-2.814

π /4DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	-4.032	-4.032±1	-3.032
Middle(2441MHz)	-4.154	-4.154±1	-3.154
Highest(2480MHz)	-4.221	-4.221±1	-3.221

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	-4.198	-4.198±1	-3.198
Middle(2441MHz)	-3.865	-3.865±1	-2.865
Highest(2480MHz)	-4.054	-4.054±1	-3.054

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Highest(2480MHz)	-3.814	-2.814	4.531	0.165	3.0	Yes

.....THE END OF REPORT.....