

Report No.:	TW2210199-02E
Applicant:	LEADER PREMIUMS LIMITED
Product:	Wireless Charger & Speaker
Model No.:	AB0322
Trademark:	N/A
Test Standards:	FCC Part 15.249
Test result:	It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility
Approved By	
Toursd True	

Terry Tang

lerm

Manager

Dated: November 14, 2022

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

## SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



## **Special Statement**:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

## CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

## FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

## Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

## A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Report Conclusion Content

1.0	General Details	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Submitted Sample	4
1.5	Test Duration	5
1.6	Test Uncertainty	5
1.7	Test By	5
2.0	List of Measurement Equipment	6
3.0	Technical Details	7
3.1	Summary of Test Results	7
3.2	Test Standards	7
4.0	EUT Modification	7
5.0	Power Line Conducted Emission Test	8
5.1	Schematics of the Test	8
5.2	Test Method and Test Procedure	8
5.3	Configuration of the EUT	8
5.4	EUT Operating Condition	9
5.5	Conducted Emission Limit	9
5.6	Test Result	9
6.0	Radiated Emission test	12
6.1	Test Method and Test Procedure	12
6.2	Configuration of the EUT	13
6.3	EUT Operation Condition	13
6.4	Radiated Emission Limit	13
6.5	Test Result	15
7.0	Band Edge	23
7.1	Test Method and Test Procedure	23
7.2	Radiated Test Setup	23
7.3	Configuration of the EUT	23
7.4	EUT Operating Condition	23
7.5	Band Edge Limit	23
7.6	Band Edge Test Result	24
8.0	Antenna Requirement	28
9.0	20dB bandwidth measurement	29
10.0	FCC ID Label	35
11.0	Photo of Test Setup and EUT View	36

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



#### 1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996
Site on File with the Federal Communications Commission – United Sates
Registration Number: 744189
For 3m Anechoic Chamber

1.2 Applicant Details
Applicant: LEADER PREMILIMS LIMITED

Applicant:LEADER PREMIUMS LIMITEDAddress:ROOM 901, HENGFU MANSION, NO.858, FUMINGROAD, NINGBO, CHINATelephone:--Fax:--

1.3 Description of EUT

Product:	Wireless Charger & Speaker
Manufacturer:	LEADER PREMIUMS LIMITED
Address:	ROOM 901, HENGFU MANSION, NO.858, FUMINGROAD, NINGBO,
	CHINA
Trademark:	N/A
Model Number:	AB0322
Additional Model Name	N/A
Rating:	Type-C Input: DC5V, 3A, DC9V, 3A
Battery: DC3.7V, 300mAh Li-ion battery	
Remark: During the test, the power supply was selected for the final measurement, and it was the worst	
Modulation Type:	GFSK, Л/4DQPSK
Operation Frequency:	2402-2480MHz
Channel Number:	79
Channel Separation:	1MHz
Hardware Version:	Wirelesscharging-AB0322
Software Version:	leader.1804.01
Serial No.:	AB0322
Antenna Designation	PCB antenna with gain -0.58dBi Max (Get from the antenna specification)

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



- 1.4 Submitted Sample: 1 Sample
- 1.5 Test Duration 2022-10-20 to 2022-11-14
- 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Conducted Emissions Uncertainty =3.6dB Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Andy - Xing

The sample tested by

Print Name: Andy Xing

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2022-07-15	2023-07-14
RF Cable	Zhengdi	7m		2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17

#### 2.2 Automation Test Software

For Conducted Emission Test

Name	Version	
EZ-EMC	Ver.EMC-CON 3A1.1	

#### For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



#### **3.0** Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:				
Standard	Test Type	Result	Notes	
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies	
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies	
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies	
FCC Part 15, Paragraph 15.209 and RSS-210	Radiated Emission Test	Pass	Complies	
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies	

#### **3.2** Test Standards

FCC Part 15 Subpart C, Paragraph 15.249 , ANSI C63.4 :2014 and ANSI C63.10 :2013

#### 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

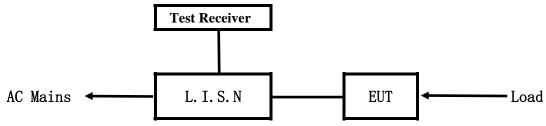
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



#### 5. Power Line Conducted Emission Test

5.1 Schematics of the test

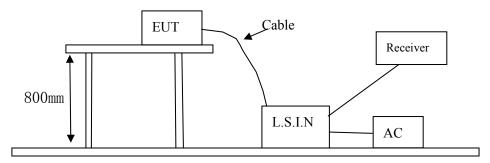


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013. Test Voltage: 120V~, 60Hz

Block diagram of Test setup



#### 5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below. 79 channels are provided to the EUT

А	EUT
11.	LUI

Device	Manufacturer	Model	FCC ID
Wireless Charger &	LEADER PREMIUMS	A E0222	
Speaker	LIMITED	AE0332	2APYY-AB0332

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



B. Internal Device

2.				
	Device	Manufacturer	Model	FCC ID/DOC
	N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Chenyang	UP0920	Input: 100-240V~, 50-60Hz, 0.5A;
			Output: DC5V/3A or DC9V, 3A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB µ V)			
(MHz)	Quasi-peak Level	Average Level		
$0.15~\sim~0.50$	66.0~56.0*	56.0~46.0*		
$0.50~\sim~5.00$	56.0	46.0		
$5.00 \sim 30.00$	60.0	50.0		

Notes: 1. \*Decreasing linearly with logarithm of frequency.

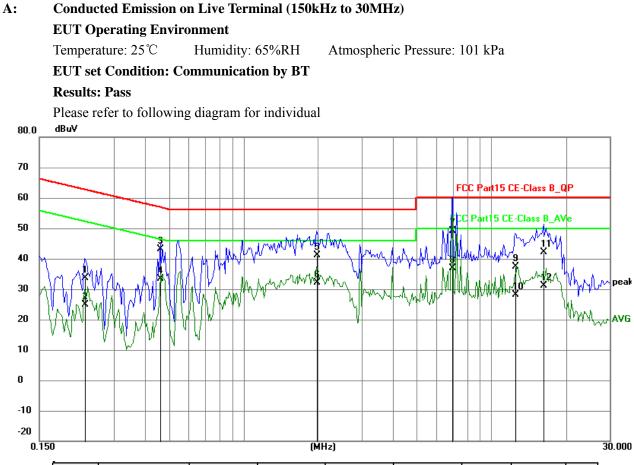
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



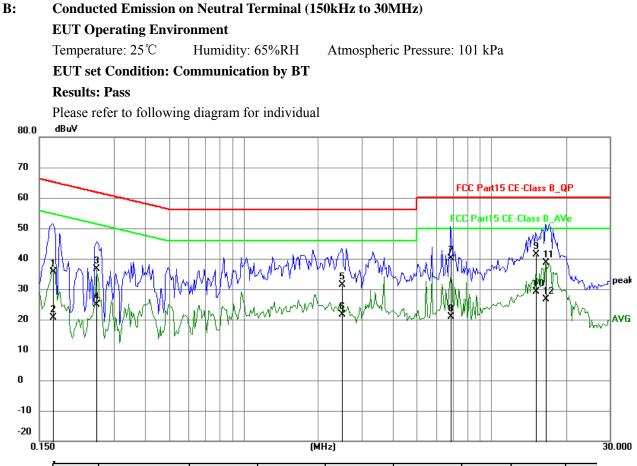


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2280	23.78	9.75	33.53	62.52	-28.99	QP	Ρ
2	0.2280	15.10	9.75	24.85	52.52	-27.67	AVG	Ρ
3	0.4620	33.35	9.77	43.12	56.66	-13.54	QP	Ρ
4	0.4620	23.66	9.77	33.43	46.66	-13.23	AVG	Р
5	1.9752	31.44	9.80	41.24	56.00	-14.76	QP	Ρ
6	1.9752	22.38	9.80	32.18	46.00	-13.82	AVG	Ρ
7	6.9507	39.11	10.01	49.12	60.00	-10.88	QP	Ρ
8	6.9507	26.99	10.01	37.00	50.00	-13.00	AVG	Ρ
9	12.4770	27.20	10.27	37.47	60.00	-22.53	QP	Ρ
10	12.4770	17.98	10.27	28.25	50.00	-21.75	AVG	Ρ
11	16.2833	31.64	10.46	42.10	60.00	-17.90	QP	Ρ
12	16.2833	20.55	10.46	31.01	50.00	-18.99	AVG	Ρ

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1695	25.77	9.77	35.54	64.98	-29.44	QP	Р
2	0.1695	10.83	9.77	20.60	54.98	-34.38	AVG	Р
3	0.2553	26.89	9.75	36.64	61.58	-24.94	QP	Ρ
4	0.2553	15.08	9.75	24.83	51.58	-26.75	AVG	Ρ
5	2.4978	21.56	9.82	31.38	56.00	-24.62	QP	Ρ
6	2.4978	11.91	9.82	21.73	46.00	-24.27	AVG	Ρ
7	6.8571	30.16	10.00	40.16	60.00	-19.84	QP	Ρ
8	6.8571	10.88	10.00	20.88	50.00	-29.12	AVG	Ρ
9	15.0783	31.06	10.38	41.44	60.00	-18.56	QP	Ρ
10	15.0783	18.83	10.38	29.21	50.00	-20.79	AVG	Ρ
11	16.5369	28.13	10.47	38.60	60.00	-21.40	QP	Ρ
12	16.5369	16.17	10.47	26.64	50.00	-23.36	AVG	Ρ

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

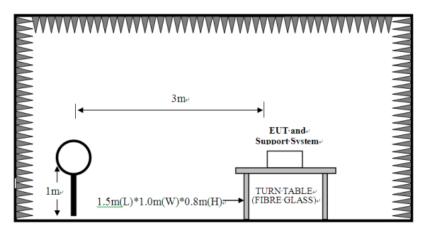


#### 6 Radiated Emission Test

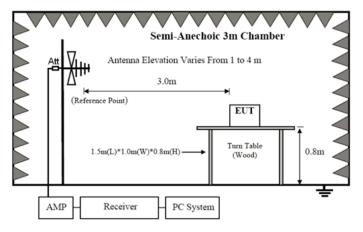
- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

#### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz

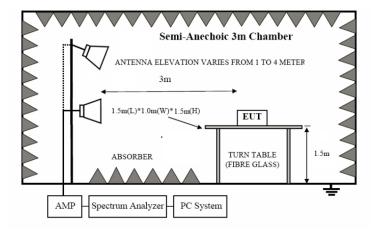


The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

#### A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field St	trength of Harmo	nics (3m)
(MHz)	mV/m	dBu	V/m	uV/m	dBu	V/m
2400-2483.5	50	94 (Average) 114 (Peal		500	54 (Average)	74 (Peak)

Note: 1. RF Field Strength  $(dBuV) = 20 \log RF$  Voltage (uV)

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



#### B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

I	1	81
Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-80	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage  $(dBuV) = 20 \log RF$  Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.

5. The two modulation modes of GFSK and Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

6. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

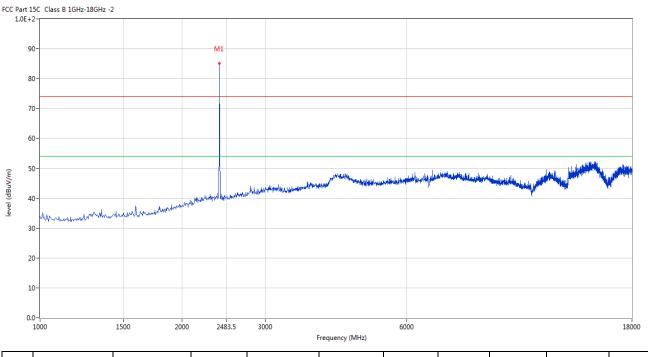
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



# 6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

#### Horizontal

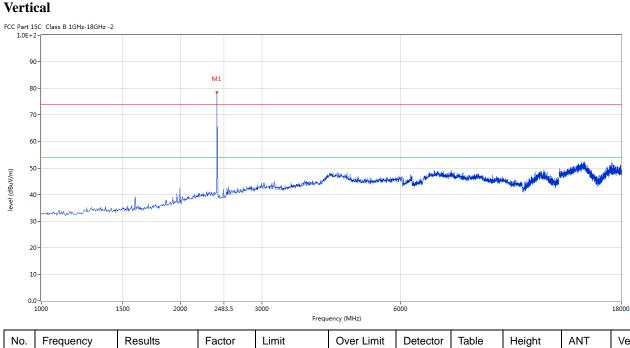


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	85.07	-3.57	114.0	-28.93	Peak	134.00	100	Horizontal	Pass

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.





No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	78.83	-3.57	114.0	-35.17	Peak	333.00	100	Vertical	Pass

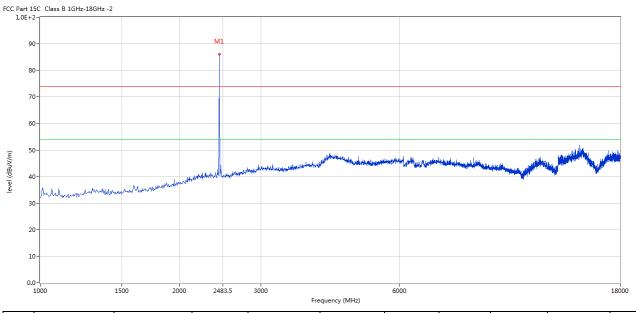
The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



## Please refer to the following test plots for details: Middle Channel-2441MHz

#### Horizontal

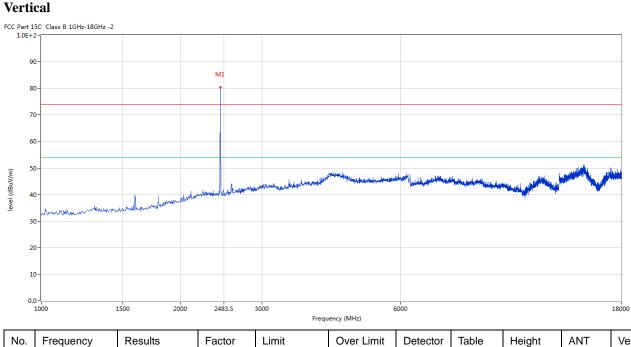


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	86.03	-3.57	114.0	-27.97	Peak	238.00	100	Horizontal	Pass

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.





No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	80.37	-3.57	114.0	-33.63	Peak	176.00	100	Vertical	Pass

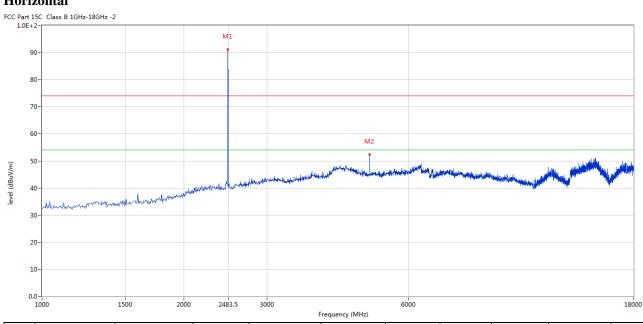
The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



#### Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal

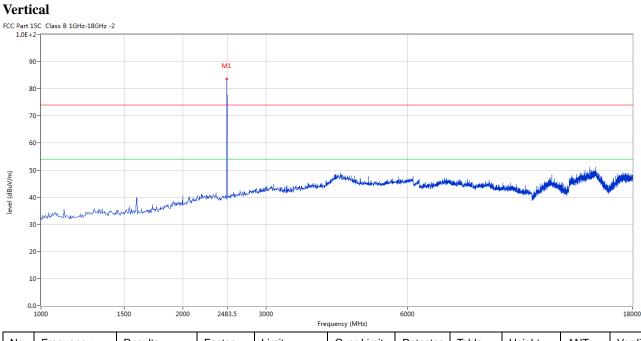


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	90.95	-3.57	114.0	-23.05	Peak	151.00	100	Horizontal	Pass
2	4960.010	52.28	3.36	74.0	-21.72	Peak	136.00	100	Horizontal	Pass

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.





No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	83.59	-3.57	114.0	-30.41	Peak	171.00	100	Vertical	Pass

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

(2) Margin=Emission-Limits

(3) According to section 15.35(b), the peak limit is 20dB higher than the average limit

(4) For test purpose, keep EUT continuous transmitting

(5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.

(6) the measured PK value less than the AV limit.

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

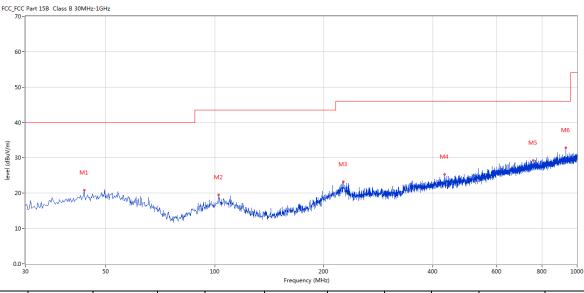


## B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	43.577	20.79	-11.49	40.0	-19.21	Peak	303.00	100	Horizontal	Pass
2	102.489	19.54	-13.41	43.5	-23.96	Peak	307.00	100	Horizontal	Pass
3	225.891	23.15	-12.85	46.0	-22.85	Peak	100.00	100	Horizontal	Pass
4	430.995	25.29	-8.00	46.0	-20.71	Peak	285.00	100	Horizontal	Pass
5	756.348	29.26	-3.28	46.0	-16.74	Peak	237.00	100	Horizontal	Pass
6	931.390	32.88	-1.66	46.0	-13.12	Peak	307.00	100	Horizontal	Pass

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



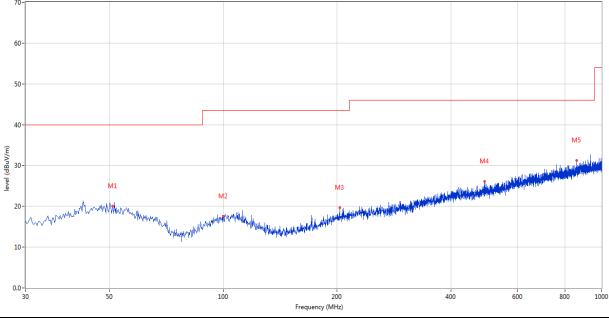
#### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### **Results:** Pass

Please refer to following diagram for individual

FCC\_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	51.092	20.04	-11.41	40.0	-19.96	Peak	1.00	100	Vertical	Pass
2	100.065	17.54	-13.52	43.5	-25.96	Peak	0.00	100	Vertical	Pass
3	203.344	19.66	-13.46	43.5	-23.84	Peak	16.00	100	Vertical	Pass
4	490.635	26.05	-7.20	46.0	-19.95	Peak	13.00	100	Vertical	Pass
5	858.900	31.21	-2.34	46.0	-14.79	Peak	1.00	100	Vertical	Pass

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

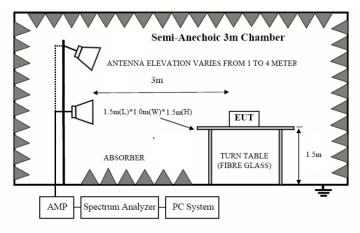


#### 7. Band Edge

#### 7.1 Test Method and test Procedure:

- The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

#### 7.2 Radiated Test Setup



For the actual test configuration, please refer to the related items - Photos of Testing

#### 7.3 Configuration of The EUT

Same as section 5.3 of this report

#### 7.4 EUT Operating Condition

Same as section 5.4 of this report.

#### 7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



#### 7.6 Test Result

			ess Charge	r & Speaker		Polarity		Horizontal		
	Mode	Ke	eping Trar	nsmitting		Test Volta	ıge		DC3.7V	
Те	mperature		24 deg.	С,		Humidit	y		56% RH	
Те	est Result:		Pass							
Part 1 1.0E+	15C Class B 1GHz-18GHz	-2								_
21021	-									
9	0-							M	1	_
8	80-								$\rightarrow$	_
7	0-								1	
6	0-							M2		
5										_
	50-					M3 I				
4	0-	40-alisettertertettettertetterterterterterterte		ter bine internet Manual Provider	المعالمية فالمعاد والمترجة والمعالم والمعالم	للار اجده أسر والإلالان بعا				
		ulana anto de la contra de la con		ing band in your provide the first	la li a fan se her her i se her her her				- Cuphur	<b>W</b>
	0- <mark>#/444#################################</mark>	alaan ad staard gada ya ku da ku	in for the second s		la di anti ang kang kang kang kang kang kang kang	an sild the for still and still				<i>w</i>
	0-	สารแรงสารสารสารสารสารสารสารสารสารสารสารสารสารส	algani ya Miriku Ingilamian da		haltað léð svið sí karlandar han han	ter stilligt og foref still	Lithin Haadatalaan			<b>W</b>
3	0	ylanosta antar	nigoaran felincing karine, ka	ing in a second seco	hadhadhadan kashadhadhadhadhadha	in siddifferen orde sid	Lilia di solo falsale di			<b>W</b>
3 2 1	0	19000000000000000000000000000000000000	nijera po do da		kaltarikistarisistari	in state of the second with				<b>W</b>
3 2 1 0.	0	1	niject, statisti, glasses, ke							2410
3 2 1 0.	0- 0- 0- 2350			Fr	equency (MHz)			Hoight		2410
3 2 1 0.	0	Results	Factor	Fr	equency (MHz)	Detector	Table	Height		2410
3 2 1 0. <b>NO.</b>	0	Results (dBuV/m)	Factor (dB)	Fr Limit (dBuV/m)	equency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)	ANT	2410 Verdia
3 2 1 0. <b>No.</b>	0- 0- 2350 Frequency (MHz) 2402.142	Results (dBuV/m) 84.65	Factor (dB) -3.57	Fr Limit (dBuV/m) 74.0	equency (MHz) Over Limit (dB) 10.65	Detector Peak	Table (o) 259.00	(cm) 100	ANT Horizontal	2410 Verdia
3 2 1 0. <b>NO.</b>	0- 0- 2350 Frequency (MHz) 2402.142 2400.027	Results (dBuV/m) 84.65 62.44	Factor (dB) -3.57 -3.57	Fr Limit (dBuV/m) 74.0 74.0	equency (MHz) Over Limit (dB) 10.65 -11.56	Detector Peak Peak	Table (0) 259.00 145.00	(cm) 100 100	ANT Horizontal Horizontal	2410 Verdia N/A Pass
3 2 1 0. <b>No.</b>	0- 0- 2350 Frequency (MHz) 2402.142	Results (dBuV/m) 84.65	Factor (dB) -3.57	Fr Limit (dBuV/m) 74.0	equency (MHz) Over Limit (dB) 10.65	Detector Peak	Table (o) 259.00	(cm) 100	ANT Horizontal	2410 Verdic

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



	Product:	W1r	eless Charg	ger & Speake	er	Detector			Vertical		
	Mode	I	Keeping Tr	ansmitting		Test Vol	tage		DC3.7V		
Те	emperature		24 de	eg. C,		Humidity			56% RH		
Te	est Result:		Pa	SS							
C Part 1 1.0E+	15C Class B 1GHz-18GHz	-2									
g	90-										
								м	1		
8	30-										
7	70-										
6	50 -										
								M2	-		
_									<b>h</b>		
. 5	50-					M3	din nd h	hull Jaw *	$\sim \lambda$		
4	10-	ntaliya may ana dan dala da basa	n an	nigentlister, dage that had a band at a		M3			h h h	nuturkanak	
. 4		akaliyama <mark>han daa dala daga a</mark>	elanahatailan dina	atalite kanadalah ka		Ma					
4	10	ntaliyanna <mark>bunna disebutuaksaisan</mark>	disensitation stream	ang dan takak kan ba							
- 4 3	10- Huwaling and an advantage	etaliseinet <mark>eene kurtuteikseisee</mark>	danaha kalena dina	uuuu karaakkadaa	un ala kanalik kalan	Laboration of the second s					
- 4 3 2	10	ani, un der Arteidersen	danaharatkan tena	nterilisin dan tan dan dan dan	interstationentitikkeline						
4 3 2 1	10	adalıyına yara dari dari başdari başdari	damatus endern etime	uterilise due turkelike dae	inerijalainen metakologikalaan						
4 3 2 1	10	ani, una la malante de conse	dan a buk subian stenas		requency (MHz)					2410	
4 3 2 1	10	Results	Factor			Detector	Table	Height	ANT	2410	
4 3 2 1	10	Results (dBuV/m)	Factor (dB)	F	requency (MHz)	Detector	Table (o)	Height (cm)		2410	
4 3 1 0 <b>No.</b>	10			F Limit	requency (MHz)	Detector		•		2410	
4 3 2 1	10 - Alexandre de la constant de la	(dBuV/m)	(dB)	F Limit (dBuV/m)	requency (MHz) Over Limit (dB)		(0)	(cm)	ANT	2410 Verdic	
4 2 1 0 No.	10 - 20- 20 - 20- 20 - 2350 Frequency (MHz) 2401.812	(dBuV/m) 78.77	(dB) -3.57	F Limit (dBuV/m) 74.0	requency (MHz) Over Limit (dB) 4.77	Peak	(o) 334.00	(cm) 100	ANT Vertical	2410 Verdic	

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



-	Product:		Wireless C	Charger & Sp	eaker		Polari	ty	Horizo	ntal
	Mode		Keepin	ig Transmitti	ng		Test Volt	tage	DC3.7	7V
Te	emperature		2	4 deg. C,			Humid	ity	56% RH	
Te	est Result:			Pass						
CC Part 1 1.0E+	15C Class B 1GHz-18GHz	-2						ł		
1.02+	-2-		M1							
g	90-		m	Non						
8	80-		A							
7	70-			- M						
6	50 -	گهر	A. C.	- N						
				<u>}</u>	<b>`</b>					
	50	a		1912	n					
(m//n	50-			•	What was a second	1		. I an earl ha	المعاملة والمعالية	1.4
vel (dBuV/m) P	50- 40-444444444444444444444444444444444			•	Www.weither	Antiputantipation	hirionlai unitionatul	an a	al free and a loss of the loss	the flat we the
level (dBuV/m	50- 40- <b>444/444/444/444/444/44</b> 30-	an and the second state		•	Marked Hold	Antipiper antipation	herendak, metekonya kalv	ayy daglag yor the sector of the	<u>Alydrodhologianalai</u> ya	the flying an the
level (dBuV/m 8				•	Winned Hard Hard	, den da juli juli de de da juli de	hirimahi patikanatah	nyintarilda yorthaa qabiid	den ander som ander s	taylayyardu
level (dBuV/m 2	20-			•	March and sold sold sold sold sold sold sold sol	<b>Jerisjul</b> arinskophilisj	hiri mahi prini kayatah	ayahanda yana yana	dig tangga kana sa kan	AngAnga-te
level (dBuV/m 2	30-			•	Non Audenlander	, dela julio realizedente	hermolik veteralisten	Aliter Carley	dig ten galantin kan bertan dagan	hay hay yan da
evel (dBu//m ع ت ت ت ت	20-			2483	V (1996) 1 H	yledajularleadapelekiy	yaranlah yariyogatah	Azirkatikan kata	dig tangga pangangan pangangan 	2500
evel (dBu//m ع ت ت ت ت	30 20 10			2483.	V (1996) 1 H	, den la judi ne en	hermonia, veter and a second and	Alikaritan Angeleti		2500
evel (dBu//m ع ت ت ت ت	30 20 10	Results	Factor	2483.	5	Detector	Table	Height	ANT	r
evel (dBu//۳ 3 5 0	30 - 20 - 10 - 2470		Factor (dB)	1	5 Frequency (MHz)			Height (cm)	ANT	r
evel (dBu//יד 1 0	30- 20- 10- 2470 Frequency	Results		Limit	5 Frequency (MHz) Over		Table	-	ANT	r
4 (dBu// 2 1 0 No.	20- 10- 2470 Frequency (MHz)	Results (dBuV/m)	(dB)	Limit (dBuV/m)	5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)		Verdic

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



	Product:		Wireless	Charger & Sp	beaker		Detecto	or	Vertic	al
	Mode		Keepii	ng Transmitti	ng		Test Volt	age	DC3.7	'V
Te	emperature		2	24 deg. C,			Humidity 50			H
Те	est Result:			Pass						
CC Part 1 1.0E+	15C Class B 1GHz-18GHz	-2								
	90-		M1							
8	30-		$- \cap$							
7	70-		_/							
	_									
6	50-			M2						
-	50-			M2						
-		And Market Market Market Market		M2	Merentilleditlandi			un Laun mahillu	kulastruskan suld hove	water
5 (w/\ngp) 4	50-	Arres stated by the second second	/	M2	Maran and Alandah sa dar	a dise la dise a di di a di	radios de la de la de d	yh linnen den fleilles	halestrashen addamest	and the other
(m/\ngp) 4 3	50	Arres and all fill a france and a second second		M2	Nudernasi illendisi sedir	ander land at dand	radovel ko (V), ta di	ish linnor don fhilles	halestracher and have st	authoth
((Jang)) (Jane) 4 3 2	50 - 10 - <mark>Magangahinesi di disebuahi</mark> 30 -	Arres and all block and		M2	Madaman ( Heidel ) Lindi	adul david had	egina di kada di kada di	ing for the second s	tulationidae.cold.herat	aradina ka
(m / / ngp) 4 3 2 1	50 - 40 - <mark>11 tugar gabaren 1 kan big ga</mark> 30 - 20 -	Arres stilled block and		M2	Madversent Aller diet bescher		eehond de hier of de	ishlanorine futbo	lulatorial discrimination of	avative in
((( , 5 ( , 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	50	dent stildelige and and a start of the start		2483.5	equency (MHz)		eçhend kerdeki derde	ishiyanar tersefutibu	interverset interve	2500
((( , 5 ( , 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	50	Results	Factor	2483.5		Detector	Table	Height	ANT	2500
(ш//ляр) 4 3 2 1 0.	50 - 10 - 10 - 10 - 20 - 10 - 2470		Factor (dB)	2483.5 Fr	equency (MHz)					2500
(ш//ляр) 4 3 2 1 0.	50 - 10 - 10 - 10 - 10 - 10 - 10 - 2470 Frequency	Results		2483.5 Fr Limit	equency (MHz)		Table	Height		

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. For Restricted band test, the two modulation modes of GFSK and Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



#### 8.0 Antenna Requirement

#### **Applicable Standard**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna. The antenna gain is -0.58dBi Max. It fulfills the requirement of this section. Test Result: Pass

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



GFSK Modulation										
Product:	Wireless	Charger &	Speaker		Te	est Mode:		Keep tran	smitting	
Mode	Keepi	ng Transm	itting		Te	st Voltage		DC3.7V		
Temperature	/	24 deg. C,			Humidity			56%	RH	
Test Result:		Pass			]	Detector		PH	K	
20dB Bandwidth	8	865.73kHz								
Ref Lvl	ndB		00 dB	V	BW BW	30 kH 100 kH	Hz	F Att	20 dB	
10 dBm	BW 865	5.731462	93 kHz	SI	TW	8.5 ms	s Ui	nit	dBn	n
10						<b>V</b> 1	[T1]	-3	.14 dBm	A
0			1					2.40183	467 GHz	
0						ndB		20	.00 dB	
				$\land$	,	BW ♥ <sub>T</sub> 1	86 [T1]	5.73146 -2 <sup>-</sup>	293 kHz .46 dBm	
-10		(	$\sim$		5				008 GHz	
		T1			$\nabla_{\mathrm{T2}} \nabla_{\mathrm{T2}}$		[T1]	-21.39 dBm		D
-20 1MAX		$\mathcal{A}$						2.40240	581 GHz	1MA
- 30						\	Ly I			-
-50	$\sim$							m		-
-60								<u> </u>	man	
- 70										
-80										
-90 Center 2.40	2 GHz		300	kHz/				l Spa	n 3 MHz	<u>]</u> ]
Date: 4.NOV		23:48						-		

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



FSK Modulation		car Classes	P. C	-		V t	
Product:		ess Charger			Test Mode:	-	ransmitting
Mode	Ke	eping Trans			est Voltage		C3.7V
Temperature		24 deg. (	,		Humidity		% RH
Test Result:		Pass	<b>.</b>		Detector		PK
0dB Bandwidth	865.73kHz						
	Marker 1 [T1 ndB]			RBW	30 kHz		20 dB
Ref Lvl	ndB		0.00 dB	VBW	100 kHz	Unit	15
10 dBm	BW 865.73146293 kHz			SWT	8.5 ms	Unit	dBm
					▼1 [	т1] –	0.62 dBm
0			1			2.4408	
0			$\bigwedge$	< <	ndB	2	0.00 dB
				$\vee$ $\int_{-\infty}^{\infty}$	BW ▼ <sub>T1</sub>	865.7314 [T1] -2	6293 kHz
-10			$\mathcal{N}$	<u> </u>			4008 GHz
		T1 (	т1 (Л		$\nabla_{\mathrm{T2}} \nabla_{\mathrm{T2}}$	[T1] -20.89 dB	
-20					Ϋ́ς Ι	2.4414	
1MAX		$\sim$			$\sim$		1M2
-30							
		/				η	
-40							
-50						<u> </u>	h how how
-60							
-70							
-80							
-90	441 GU						
Center 2	.441 GHZ		300	KHZ/		Sp	an 3 MHz

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



Product:	Wireless	Charger &	Speaker	7	Test Mode:		Keep tra	ansmitting		
Mode		ing Transmi	-		est Voltage	1		23.7V		
Temperature		24 deg. C,			Humidity			% RH		
Test Result:		Pass			Detector			PK		
0dB Bandwidth		865.73kHz								
	Marker 1 [T1 ndB]			RBW	30 kH:	z RI	F Att	20 dB		
🐼 Ref Lvl	ndB	20.	00 dB	VBW	100 kH:	z				
10 dBm	BW 865.73146293 kHz			SWT	8.5 ms	Ur	nit	dBm	ı	
10					▼1 [	T1]	(	.53 dBm	A	
0			1				2.47983	8467 GHz		
0			$\langle \rangle$	$\overline{\mathbf{X}}$	ndB		20	0.00 dB		
1.0					BW ♥ <sub>T1</sub>			293 kHz		
-10		ſ	PO I	J	1		2.47954	008 GHz		
		Ţ			$\int T_2 \nabla_{T_2}$		[T1] -19.61 o			
-20		~			<u> </u>		2.48040	)581 GHz	1M2	
2.0		~			₩ V					
-30	<u> </u>					Y.				
-40	~ /						$\sim$			
						$\sim$				
-50	· · · · · · · · · · · · · · · · · · ·						hy .	minute		
-60										
-70		_								
-80										
-90										
Center 2	.48 GHz		300	kHz/			Spa	an 3 MHz		

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



Product:	Wireless C	harger & S	Speaker		Т	est Mode:		Keep tran	smitting	
Mode		g Transmit			Те	est Voltage		DC3.		
Temperature		4 deg. C,				Humidity		56%	RH	
Test Result:		Pass				Detector		PK	<u> </u>	
0dB Bandwidth	1.	232MHz								
<u>``</u>	Marker 1 [T1 ndB]			RI	RBW 30 kH		Hz RI	F Att	20 dB	
Ref Lvl	ndB	20.0	00 dB	VI	BW	100 ki	Hz			
10 dBm	BW 1	.2324649	3 MHz	SI	МТ	8.5 m	s Ur	nit	dBm	ı
10						▼1	[T1]	-1	.25 dBm	A
			1					2.40183	467 GHz	
0			$\Lambda \wedge$			ndB		20	.00 dB	
						BW ∧ ⊽ <sub>T1</sub>		1.23246		
-10			~~ ~~	<u>~~</u>	<u>, ^^</u>		[T1]	-21 2.40135	.54 dBm	
		/				$\nabla_{T_{2}}$	▼ <u>1</u> 2 [T1]		972 GHz .32 dBm	
-20	<u> </u>					<u> </u>	2	2.40259	218 GHz	
1MAX							5			1M
-30										
-40	$\mathcal{M}$						hore	$\sim$		
-50								m	m when	
-60										
-70										
-80										
-90										
Center 2.40	2 GHz		300 1	kHz/				Spa	n 3 MHz	

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



Product:	Wireless C	Charger & S	Speaker		Test	t Mode:		Keep tra	insmitting	
Mode	Keepin	g Transmit	ting		Test	Voltage		DC	3.7V	
Temperature		4 deg. C,				midity		56%	6 RH	
Test Result:		Pass				etector		I	РК	
dB Bandwidth	1	.257MHz								
· · · · · · · · · · · · · · · · · · ·	Marker 1 [T1 ndB]			RI	ЗW	30 kH:	z Rl	F Att	20 dB	
🔗 Ref Lvl	ndB	20.	00 dB	VI	ЗW	100 kH:	Z			
10 dBm	BW	L.256513	03 MHz	SI	νT	8.5 ms	U	nit	dBm	
10						<b>V</b> 1 [	T1]	- 0	.60 dBm	A
			1					2.44083	467 GHz	•
0			$\Lambda \wedge$			ndB		20	.00 dB	
		0	$ \lambda $	long	~	BW ⊽ <sub>T1</sub>	[T1]	1.25651	303  MHz	
-10			Γ' '	~		$\sim$		2.44035		
	TI			▽					.88 dBm	
-20	٣,					<u> </u>	2.4416		623 GHz	1M2
-30										
-40							M	$\wedge$		
-50										
								~	hand	
-60										
-70										
-80										
-90 Center 2.4	141 CHg		300 }	c11 rz /				Sno	n 3 MHz	
			500 1	/				559		

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



Product:	Wireless	Charger & S	Speaker		Test Mode:		Keen tra	insmitting	
Mode		ng Transmi	_		Test Voltage	;		3.7V	
Temperature		24 deg. C,	0		Humidity			6 RH	
Test Result:		Pass			Detector			PK	
20dB Bandwidth	1	.257MHz							
<u> </u>	Marker 1 [T1 ndB]			RBV	1 30 k	Hz Ri	F Att	20 dB	
Ref Lvl	ndB	20.	00 dB	VBV	100 k	Hz			
10 dBm	BW	1.256513	03 MHz	SWI	5 8.5 m	s U	nit	dBm	ı
10					▼1	[T1]	C	.52 dBm	A
			1				2.47983	467 GHz	
0			$\Lambda$ $\Lambda$		ndB	5	20	.00 dB	
1.0			$\int \mathcal{M}$	h		[T1]	1.25651	303  MHz	
-10			-		V V		2.47935		
	T V	Ţ			▼ <sub>T22</sub>		2[T1] -19.61 dBm		
-20							2.48061	623 GHz	1MA
-30									
-40	A day					ho ha	M.		
-50	Ψ							hand	
-60									
-70									
-80									
-90 Center 2	.48 GHz	3 GHz 300 kHz					Spa	ın 3 MHz	
	.48 GHz NOV.2022 09		300	KHZ/			Spa	ın 3 MHz	

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



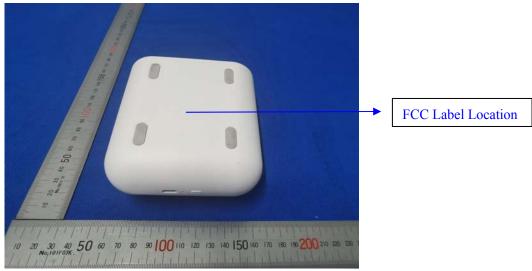
#### 10.0 FCC ID Label

#### FCC ID: 2APYY-AB0322

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

### Mark Location:



The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



#### 11.0 Photo of testing

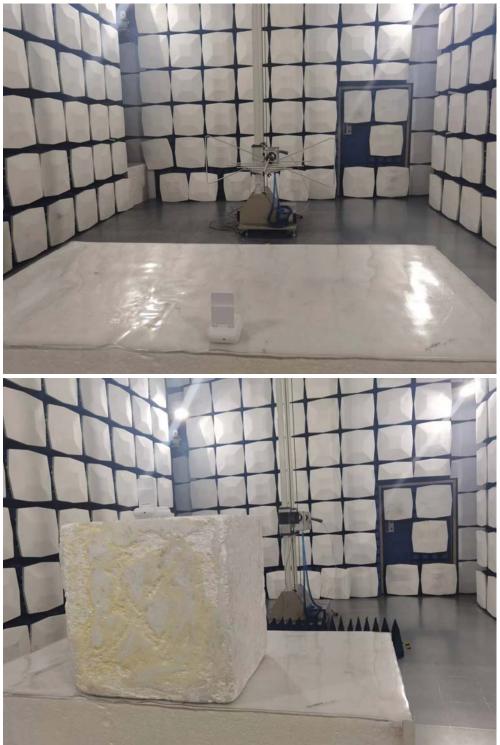
11.1 Conducted test View



The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



Radiated emission test view

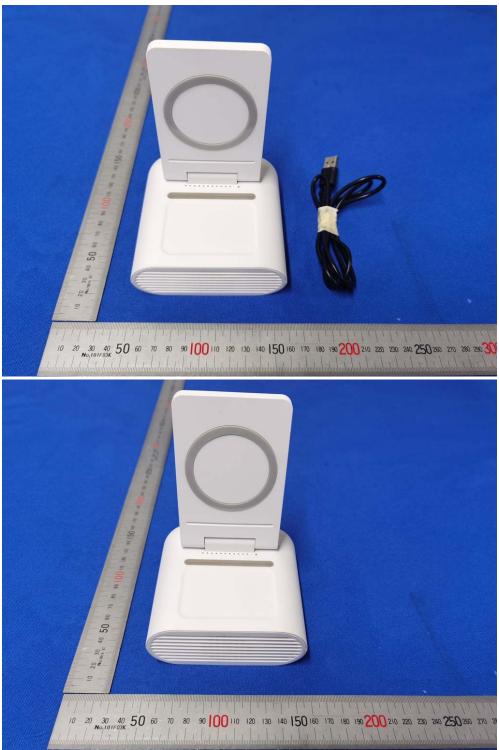


The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



11.2

Outside View

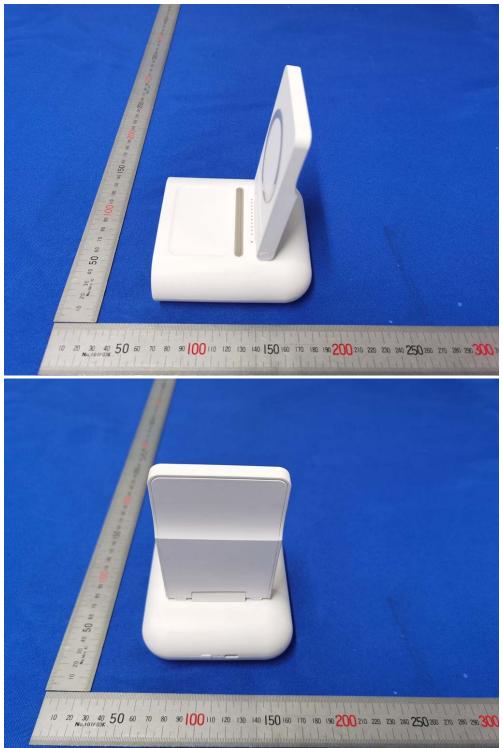


The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



Outside View

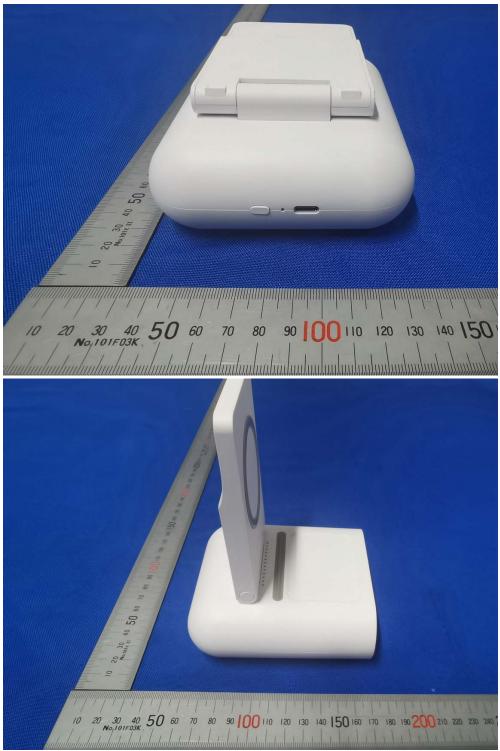


The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



Outside View



The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



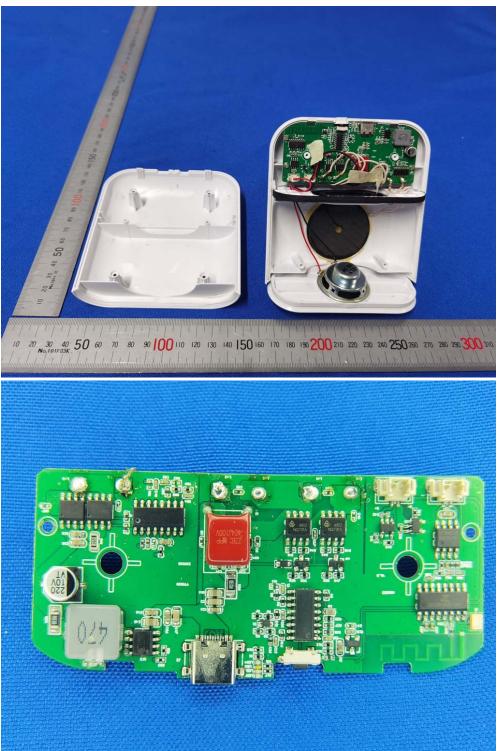
Outside View



The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



Inside View

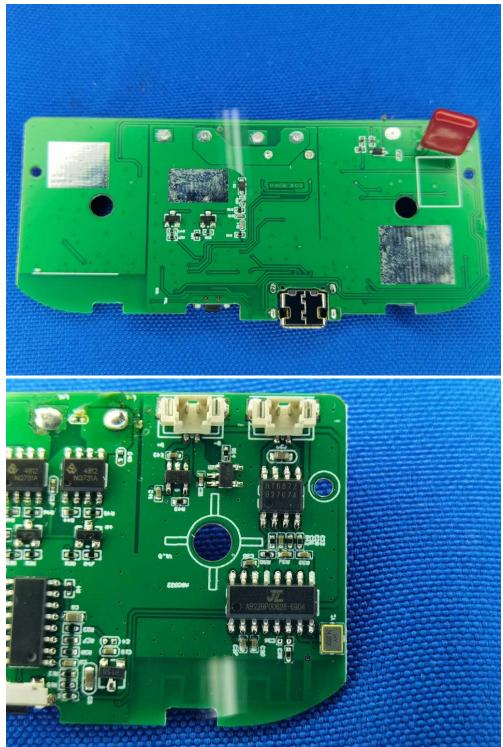


The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



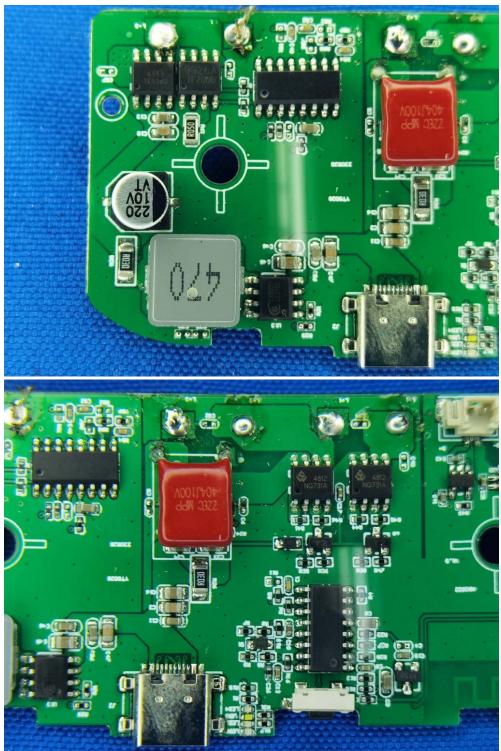
Inside View



The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



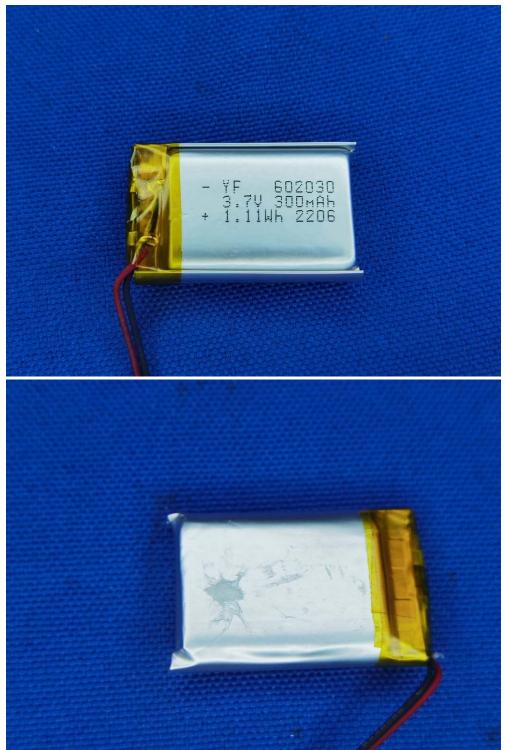
Inside View



The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



Inside View



#### -End of the Report--

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to