

Applicant: RADIOSHACK WORLDWIDE CORP.

Product: SPEAKER BOX

Model No.: 4001967, MAX-265

Trademark: Radioshack

Test Standards: FCC Part 15.249

It is herewith confirmed and found to comply with the Test result:

requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, 15.249 regulations for the evaluation

electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: March 20, 2024

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

Report No.: TW2403055-01E Page 2 of 52

Date: 2024-03-20



## **Special Statement:**

## 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

CAB identifier: CN0033

39

Report No.: TW2403055-01E

Date: 2024-03-20



# Test Report Conclusion

#### Content General Details..... 1.0 1.1 Test Lab Details.... 1.2 Applicant Details.... 4 1.3 Description of EUT ..... 4 1.4 Submitted Sample.... Test Duration. 1.5 5 5 1.6 Test Uncertainty. 1.7 Test By..... 5 2.0 List of Measurement Equipment. 6 7 3.0 Technical Details..... 3.1 Summary of Test Results.... 7 3.2 7 Test Standards.... 4.0 7 EUT Modification.... 5.0 Power Line Conducted Emission Test. 8 5.1 Schematics of the Test..... 8 Test Method and Test Procedure.... 5.2 8 Configuration of the EUT..... 5.3 5.4 EUT Operating Condition.... 9 5.5 Conducted Emission Limit..... 9 5.6 Test Result. 6.0 Radiated Emission test.... 12 Test Method and Test Procedure. 12 6.1 6.2 Configuration of the EUT..... 13 EUT Operation Condition.... 6.3 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

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

10.0

11.0

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.

FCC ID Label....

Photo of Test Setup and EUT View....

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.

Report No.: TW2403055-01E Page 4 of 52

Date: 2024-03-20



#### 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: RADIOSHACK WORLDWIDE CORP.

Address: Millennium Tower, 18th floor Paseo General Escalon Number 3675 Col. Escalon, San

Salvador, El Salvador

#### 1.3 Description of EUT

Product: SPEAKER BOX

Manufacturer: MAXTRONIX CO., LTD.

Address: NO.12, HEXIANG ROAD, WUJIN ECONOMIC DEVELOPMENT ZONE,

CHANGZHOU, JIANGSU, CHINA

Trademark: Radioshack
Model Number: 4001967
Additional Model Name MAX-265
Rating: Input:DC5V

Battery: DC7.4V, 4000mAh Li-ion battery

Serial No.: MS40019670240328115B

Hardware Version: 4001967-V1.1 Software Version: 4001967-V1.1 Operation Frequency: 2402-2480MHz

Modulation Type: GFSK, 月/4DQPSK, 8DPSK

Number of Channels: 79 Channel Separation: 1MHz

Antenna Designation PCB antenna with gain 0dBi maximum (Get from the antenna specification)

## 1.4 Submitted Sample: 2 Samples

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.

Report No.: TW2403055-01E Page 5 of 52

Date: 2024-03-20



#### 1.5 Test Duration

2024-03-07 to 2024-03-20

## 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

The sample tested by

Print Name: Andy Xing

Page 6 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13
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	2023-07-14	2024-07-13
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13
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	2023-07-14	2024-07-13
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	1	2023-07-14	2024-07-13
RF Cable	Zhengdi	7m		2023-07-14	2024-07-13
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13

## 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		

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.

Page 7 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



#### 3.0 Technical Details

## 3.1 Summary of test results

The EU	Γ has been	tested a	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	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies
FCC Part 15.215(c)	20dB bandwidth	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

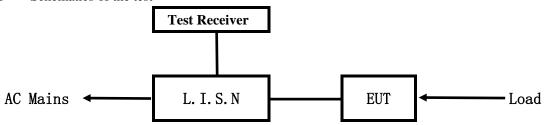
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

Date: 2024-03-20



#### 5.0 Power Line Conducted Emission Test

## 5.1 Schematics of the test

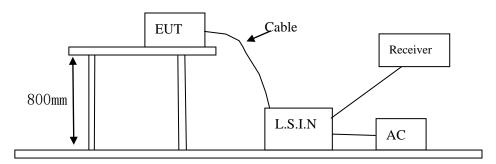


**EUT: Equipment Under Test** 

## 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: 120VAC, 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

#### A. EUT

Device	Manufacturer	Model	FCC ID
SPEAKER BOX	MAXTRONIX CO., LTD.	4001967, MAX-265	2BDUR-4001967

## B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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.

Report No.: TW2403055-01E Page 9 of 52

Date: 2024-03-20



## C. Peripherals

Device	Manufacturer	Model	Rating	
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A;	
			Output: DC5V, 2A	

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	Aver ge Level			
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*			
0.50 ~ 5.00	56.0	46.0			
5.00 ~ 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:

Date: 2024-03-20



## A: Conducted Emission on Live Terminal (150kHz to 30MHz)

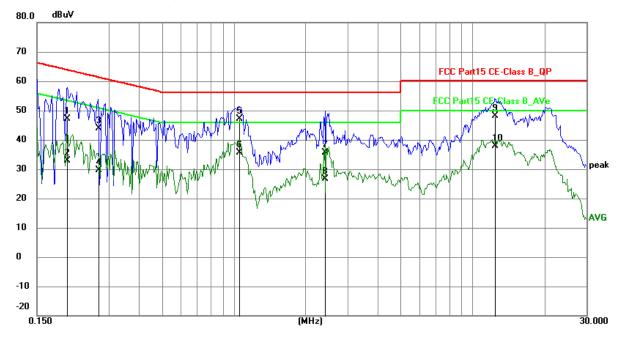
**EUT Operating Environment** 

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Communication by BT** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2007	37.27	9.75	47.02	63.58	-16.56	QP	Р
2	0.2007	23.22	9.75	32.97	53.58	-20.61	AVG	Р
3	0.2708	34.03	9.75	43.78	61.09	-17.31	QP	Р
4	0.2708	20.00	9.75	29.75	51.09	-21.34	AVG	Р
5	1.0508	37.30	9.79	47.09	56.00	-8.91	QP	Р
6	1.0508	25.88	9.79	35.67	46.00	-10.33	AVG	Р
7	2.4089	25.69	9.82	35.51	56.00	-20.49	QP	Р
8	2.4089	16.83	9.82	26.65	46.00	-19.35	AVG	Р
9	12.4341	37.80	10.27	48.07	60.00	-11.93	QP	Р
10	12.4341	27.56	10.27	37.83	50.00	-12.17	AVG	Р

Date: 2024-03-20



## B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

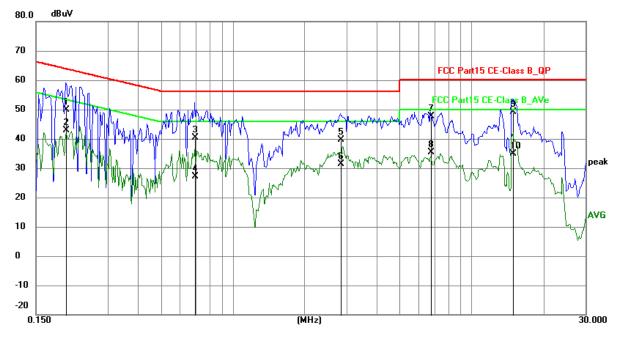
**EUT Operating Environment** 

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Communication by BT** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2006	40.21	9.75	49.96	63.59	-13.63	QP	Р
2	0.2006	33.07	9.75	42.82	53.59	-10.77	AVG	Р
3	0.6957	30.51	9.78	40.29	56.00	-15.71	QP	Р
4	0.6957	17.28	9.78	27.06	46.00	-18.94	AVG	Р
5	2.8254	29.86	9.84	39.70	56.00	-16.30	QP	Р
6	2.8254	21.55	9.84	31.39	46.00	-14.61	AVG	Р
7	6.7362	37.52	10.00	47.52	60.00	-12.48	QP	Р
8	6.7362	25.43	10.00	35.43	50.00	-14.57	AVG	Р
9	14.9106	38.68	10.38	49.06	60.00	-10.94	QP	Р
10	14.9106	24.44	10.38	34.82	50.00	-15.18	AVG	Р

Date: 2024-03-20



#### **6** Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) 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 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

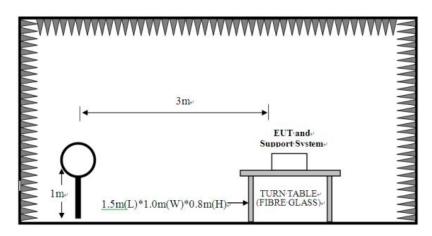
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Abovo 1CUz	Peak	1MHz	3MHz	Peak
Above 1GHz	Peak	1MHz	10Hz	Average

(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**

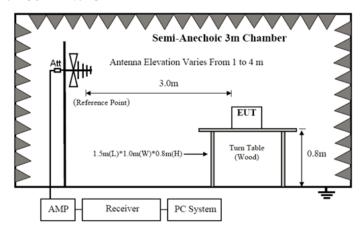
For radiated emissions from 9kHz to 30MHz



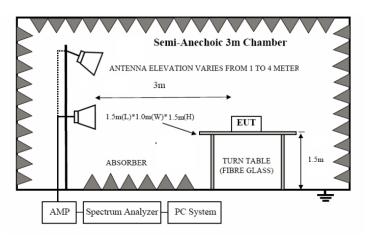
Date: 2024-03-20



For radiated emissions from 30MHz to1GHz



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 Fundamental (3m)	Field Strength of Harmonics (3m)		
(MHz)	mV/m	dBuV/m	uV/m	dBuV/m	

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.

Report No.: TW2403055-01E Page 14 of 52

Date: 2024-03-20



2400-2483.5 50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
----------------	--------------	------------	-----	--------------	-----------

Note:

- 1. RF Field Strength  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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.

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

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  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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 three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

Report No.: TW2403055-01E Page 15 of 52

Date: 2024-03-20

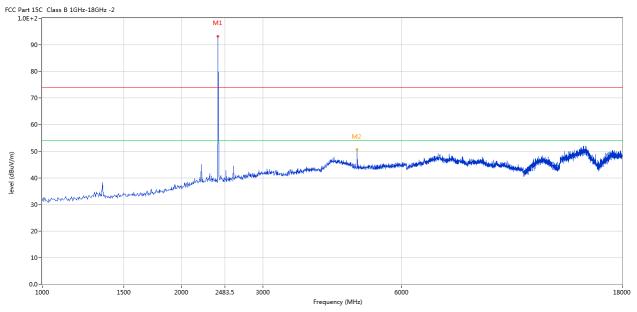


## 6.5 Test result

## A Fundamental & Harmonics Radiated Emission Data

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

## Horizontal



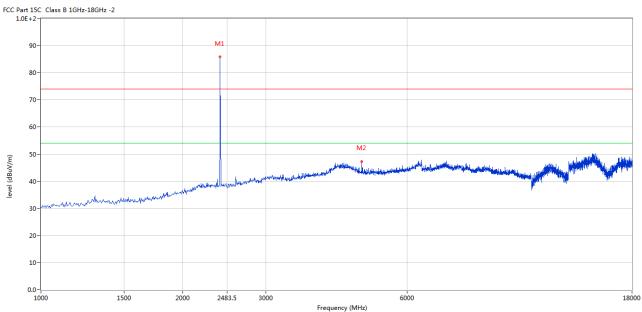
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	93.27	-3.57	114.0	-20.73	Peak	265.00	100	Horizontal	Pass
2	4802.799	50.60	3.12	74.0	-23.40	Peak	260.00	100	Horizontal	Pass

Report No.: TW2403055-01E Page 16 of 52

Date: 2024-03-20



## Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	87.15	-3.57	114.0	-26.85	Peak	155.00	100	Vertical	Pass
2	4802.799	47.30	3.12	74.0	-26.70	Peak	319.00	100	Vertical	Pass

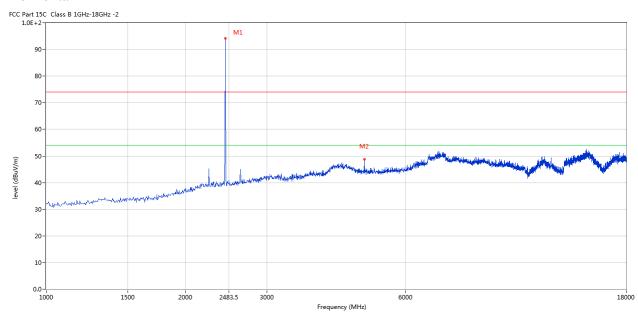
Report No.: TW2403055-01E Page 17 of 52

Date: 2024-03-20



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

#### **Horizontal**



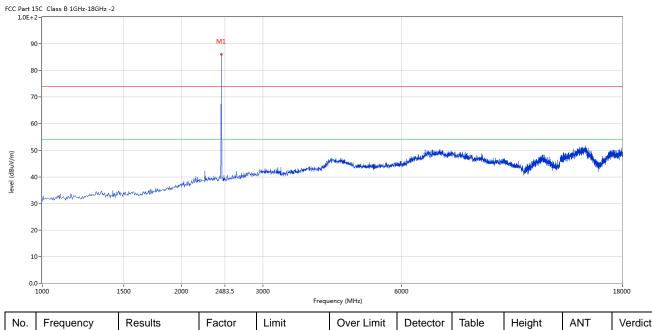
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	94.19	-3.57	114.0	-19.81	Peak	268.00	100	Horizontal	Pass
2	4883.529	48.78	3.20	74.0	-25.22	Peak	342.00	100	Horizontal	Pass

Report No.: TW2403055-01E Page 18 of 52

Date: 2024-03-20



## Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	85.98	-3.57	114.0	-28.02	Peak	104.00	100	Vertical	Pass

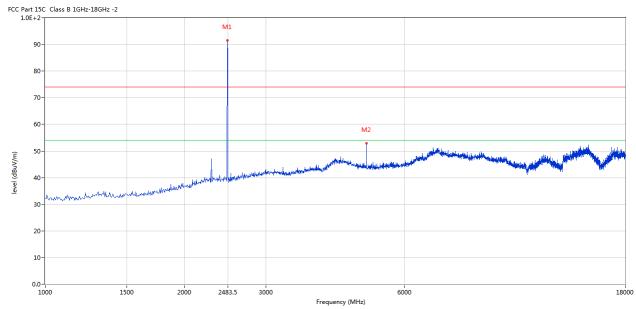
Report No.: TW2403055-01E Page 19 of 52

Date: 2024-03-20



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	91.57	-3.57	114.0	-22.43	Peak	254.00	100	Horizontal	Pass
2	4960.010	53.01	3.36	74.0	-20.99	Peak	269.00	100	Horizontal	Pass

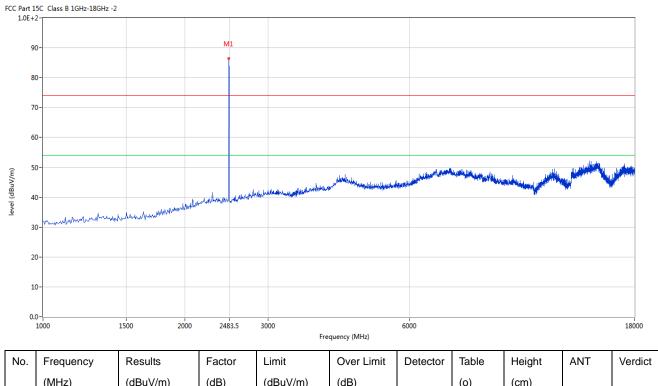
Page 20 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	86.39	-3.57	114.0	-27.61	Peak	166.00	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.

Report No.: TW2403055-01E Page 21 of 52

Date: 2024-03-20

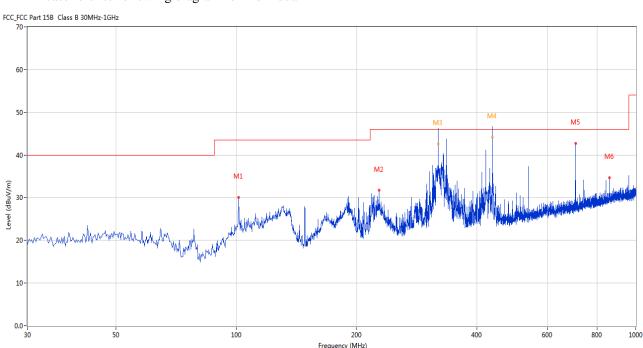


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	101.277	30.08	-13.45	43.5	13.42	Peak	54.00	100	Horizontal	Pass
2	227.588	31.79	-12.79	46.0	14.21	Peak	67.00	100	Horizontal	Pass
3*	319.958	42.54	-10.60	46.0	3.46	QP	263.00	100	Horizontal	Pass
4*	437.056	44.11	-8.03	46.0	1.89	QP	259.00	100	Horizontal	Pass
5	706.891	42.72	-3.97	46.0	3.28	Peak	0.00	100	Horizontal	Pass
6	858.658	34.71	-2.34	46.0	11.29	Peak	318.00	100	Horizontal	Pass

Report No.: TW2403055-01E Page 22 of 52

Date: 2024-03-20

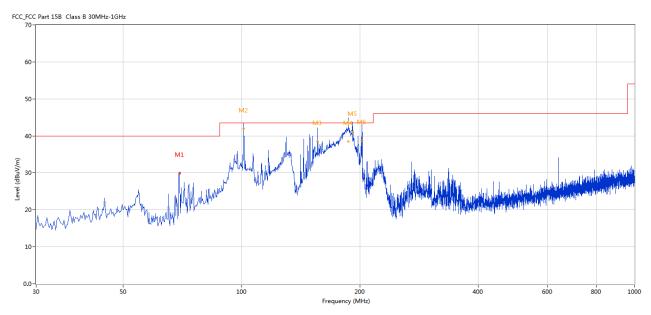


## Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	69.518	29.89	-15.48	40.0	10.11	Peak	360.00	100	Vertical	Pass
2*	101.277	41.96	-13.45	43.5	1.54	QP	360.00	100	Vertical	Pass
3*	156.068	38.50	-16.62	43.5	5.00	QP	360.00	100	Vertical	Pass
4*	186.858	38.49	-14.65	43.5	5.01	QP	360.00	100	Vertical	Pass
5*	191.950	41.05	-14.07	43.5	2.45	QP	360.00	100	Vertical	Pass
6*	202.617	38.74	-13.40	43.5	4.76	QP	360.00	100	Vertical	Pass

Date: 2024-03-20

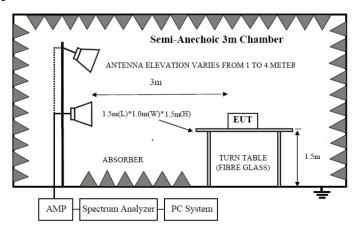


## 7. Band Edge

#### 7.1 Test Method and test Procedure:

- (1) 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.

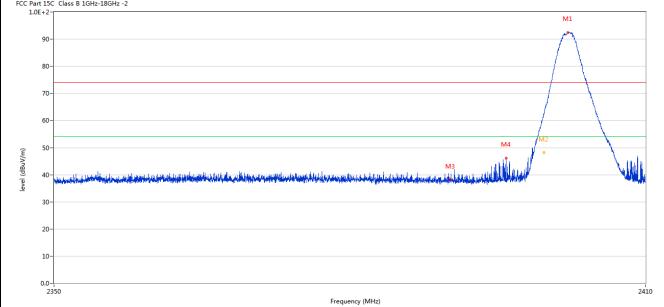
Report No.: TW2403055-01E Page 24 of 52

Date: 2024-03-20



#### 7.6 Test Result

7.0 Test Result			
Product:	SPEAKER BOX	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC7.4V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
FCC Part 15C Class B 1GHz-18GH 1.0E+2	z -2		M1
90-			/ \



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.052	92.50	-3.57	74.0	18.50	Peak	264.00	100	Horizontal	N/A
2	2400.002	60.93	-3.57	74.0	-13.07	Peak	100.00	100	Horizontal	Pass
2**	2400.002	48.27	-3.57	54.0	-5.73	AV	100.00	100	Horizontal	Pass
3	2390.040	38.26	-3.53	74.0	-35.74	Peak	360.00	100	Horizontal	Pass
4	2395.739	46.20	-3.55	74.0	-27.80	Peak	259.00	100	Horizontal	Pass

Report No.: TW2403055-01E Page 25 of 52

Date: 2024-03-20



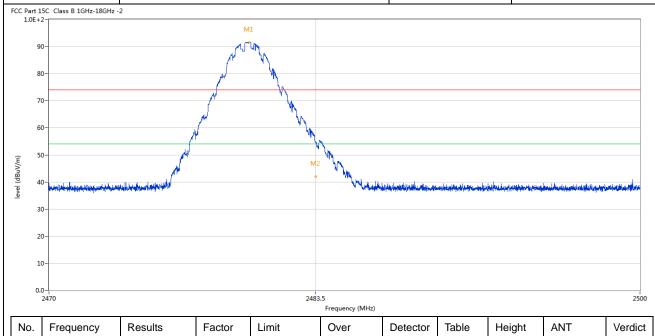
]	Product:		SPEAKE	ER BOX		Detect	or		Vertical	
	Mode	I	Keeping Tr	ansmitting		Test Vol	tage		DC7.4V	
Te	mperature		24 de	g. C,		Humid	ity		56% RH	
Te	est Result:		Pa	SS						
Part 1	15C Class B 1GHz-18GHz	: -2								
	30-								M1	
7	70-									
6	50-									
									<del>\</del>	
5	50 -							h42	<del></del>	
5						М	3	M2	1	<b>*</b> l.
5		المراجعة الموال المعارضة الخطارة الخارسيانية والمعارضة والمعارضة المعارضة المعارضة المعارضة والمعارضة والمعارضة	المراجع والمراجع والم	and the state of the state of the state of	Allies and the first belong to the second of		3 presidentifical Minds	M2 •	1	
4		ومترسيخ فأجارة بمنتبه بخاف والمتسيخة وسأود وأرداون	المنطقة المعادلة المع	n de de la companie d	- Affice and the special state as a second of		3 personaliteratelleride Militaire	M2		
4	10 - Proposition of the second	يعترض والمستراف والمقارض والمتراوية والمتراوية والمتراوية والمتراوية والمتراوية والمتراوية والمتراوية والمتراوية	distantiateleterissississis	nde dikudisasa, nasurisas, na ning	-વિકેસ્તાનુતીમાં ક્ષાવેશની કરતા હોત		3 quraaidhahijuddadhiidad	M2 •		
3	10 - printerike indelegeer vekenings da	الاستهام أريال استيمة الألم والاستيادة والمتراوية	didantahan	nadio del produce del produce de la constante d	r likken og eller for kalet for bette klivert el		ع بريان والمراجعة المراجعة ا	M2		
4 3 2	10 - Special de la constant de la co	ومذرب أريال المستهدد	distantina di distantina d	n de diferente sense, entre métroloxie, en en	-નીકેસ્ત ગુરુ દેશનાં તાલે કેટલે હિંદ છે. શેર અહીં નો		3 generalistykytytykytykyty	M2		
4 3 2 1	10 - Amerikan kenadakan kendangan ka	ent-with half trainer tills at the war. I have the	distributed a factorial and a		Frequency (MHz)		3 grandistija dilitarih	M2		2
4 3 2 1	10	Results	Factor				Table	Height	ANT	1
4 3 2 1	10				Frequency (MHz)	Managerik ungserbenden den	green and religion of the const	the state and the state of the	ANT	1
1 0 No.	10	Results	Factor	Limit	Frequency (MHz)  Over Limit	Managerik ungserbenden den	Table	Height	ANT	1
1 1 0 No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz)  Over Limit (dB)	Detector	Table (o)	Height (cm)		Verdi
3 2 2	Frequency (MHz) 2402.037	Results (dBuV/m) 86.33	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz)  Over Limit (dB)  12.33	Detector Peak	Table (o) 115.00	Height (cm)	Vertical	Verdi N/A Pass Pass

Report No.: TW2403055-01E Page 26 of 52

Date: 2024-03-20



Product:	SPEAKER BOX	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC7.4V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2480.100	91.50	-3.57	74.0	17.50	Peak	100.00	100	Horizontal	N/A
2	2483.500	54.72	-3.57	74.0	-19.28	Peak	83.14	100	Horizontal	Pass
2**	2483.500	41.89	-3.57	54.0	-12.11	AV	83.14	100	Horizontal	Pass

Page 27 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



1	Product:		SPEAKE	ER BOX		Detec	tor		Vertical	
	Mode	F	Keeping Tr	ansmitting		Test Vo	ltage		DC7.4V	
Te	mperature		24 de	g. C,		Humio	lity		56% RH	
Te	est Result:		Pa	ss						
	rt 15C Class B 1GHz-18G	lz -2			•					
			M1							
	90-		M1	- Mark						
	80-		$\sim$							
	70-									
	60-		_/	M						
				√ M2						
			-	M.						
nV/m)	50-	/	1	M	VM,					
vel (dBuV/m)	50-	white spiritual philosophy spiritual philosophy spiritual philosophy spiritual philosophy spiritual philosophy	<i></i>		May	<del>alakista da kapa jang da kapa da kapa da ka</del>	4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	nie gestel beieg geste er gelege bei	han the state of t	Para de la constante de la con
level (dBuV/m)	40	ulurganista diplomagna anno	<i>\$</i>		May	والمجاز فدمار عاضا إحداد فاعتبال بانتعد فدم	ecupakilkan biserniki	na siah kecamban dilah k	المراجعة المراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة وا	Page to the same of
level (dBuV/m)	40-	ukis ngamining ng kipin nga pananang	<i>\$</i>		May	ndadi sianda ada pengerakan pengerakan pengerakan pengerakan pengerakan pengerakan pengerakan pengerakan penge	teantillogs, historiki	rein armind transplant madely for public	deligen des alle construents des alle se	May and a grants
level (dBuV/m)	30-	aliteraturi (a. ediferações pareces	<i>\$</i>		May	odalisis oli siitti konge liinaga sina as, o	acumahilkoa bisaya dhij	ministrativas plantos de designado	teligen destination of the security of the sec	**************************************
level (dBuV/m)	40-	ukit reprinsi na kipin nga nawana	<i>\$</i>		May	ndalisinds samp <sub>e</sub> en es la mage sim <sub>e</sub> en <sub>e</sub> e	<del>inak dari biya k</del> a	nie and line of the Alfandria	dig on high we when he do not good	Med paragraph
level (dBuV/m)	30-	alian province de la lace de lace de la lace de	<i>\$</i>	2483.	Marine and the second s	adalisis da adala pertangan da agai	ae wanti iliku a Lisaan a Ahj	nie zwalino "da "Adrajali	kilg on desilven with such string street	
	30 - 20 - 10 - 2470		<i>\</i>	2483.	.5 Frequency (MHz)	adalisind samely may a lamage simuly my				2500
	30- 20- 0.0-	Results	Factor		And the second s	Detector	Table	Height	ANT	2500
(m/\ngp) level (Bn\/m).	30 - 20 - 10 - 2470		Factor (dB)	2483.	.5 Frequency (MHz)					2500
	30- 20- 10- 2470	Results		2483.	.5 Frequency (MHz)		Table	Height		2500

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

2. The three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

Date: 2024-03-20



Page 28 of 52

## 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 with gain 0dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

Date: 2024-03-20



Page 29 of 52

#### 9.0 20dB Bandwidth Measurement

## **Test Configuration**



## **Test Procedure**

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

## Limit

N/A

Page 30 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



## **Test Result**

Product:	SPEAKER BOX		Test Mode	: Keep transmi	tting	
Mode	Keeping Transmitting	[	Test Voltag	1		
Temperature	24 deg. C,	,	Humidity			
Test Result:	Pass		Detector			
20dB Bandwidth	894kHz					
Ref 10 d		*RBW 30 *VBW 10 *SWT 5	kHz Ma 0 kHz ms	rker 1 [T1 ]	A	
40 60 70 80 90 Center 2.	402 GHz 300	kHz/		Span 3 MHz	3DB	

Date: 12.MAR.2024 17:37:18

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.

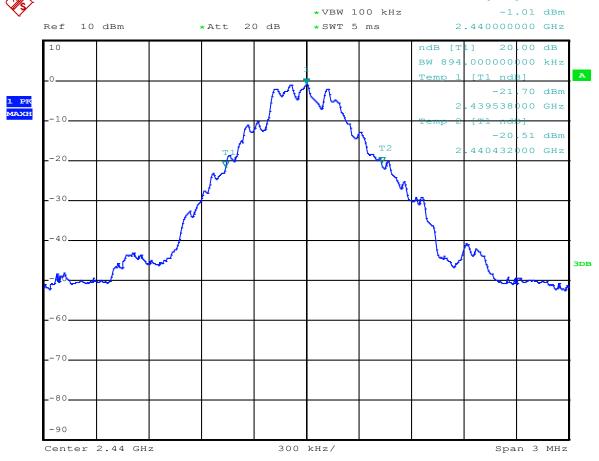
Page 31 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



GFSK			
Product:	SPEAKER BOX	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC7.4V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	894kHz		
	*RBW 30	kHz Marker	1 [T1 ]



Date: 13.MAR.2024 14:47:51

Page 32 of 52

Span 3 MHz

Report No.: TW2403055-01E

Date: 2024-03-20



Product:	S	PEAKER BO	X	Test	Mode:		Keep trai	nsmitting
Mode	Kee	ping Transmit	tting	Test '	Voltage		DC7	7.4V
Temperature		24 deg. C,		Hur	nidity		56%	RH
Test Result:		Pass		Det	tector		P	K
20dB Bandwidth		894kHz					-	-
Ref 10 dE	sm +	Att 20 de	*VBW 10			1 [T1 ] -2	.00 dBm	
10					ndB [T	_	.00 dB	]
_0			1		BW 894 Temp 1	.0000000		A
PK		f	VVV		2	-22 .4795380	.32 dBm	
<b>-</b> -10					Temp 2	<del>-[T1 nd]</del> -21	8] .72 dBm	
20		T1	γ'	Т2	2	.4804320	1	
				W. W.				
30	N	-			M			
40	mad					νζ		3DB
-39mm	AL 40"				- VI	h	array.	
60								
-70								İ

Date: 13.MAR.2024 14:04:49

Center 2.48 GHz

300 kHz/

Page 33 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



Product:	S	PEAKER	BOX		Test M	Iode:	Ke	ep transm	itting
Mode	Kee	eping Trans			Test Vo	oltage		DC7.4V	7
Temperature		24 deg. (	C,		Humi	idity		56% RF	I
Test Result:		Pass			Detector			PK	
20dB Bandwidth		1.272MHz							
Ref 10 d	Bm	*Att 20	) dB	*RBW 3	00 kHz	:	2.402000	.33 dBm	
-0			:			BW	[T1] 20 1.272000 1 [T1 nd]	000 MHz 8]	A
MAXH10		I WY	M	V\m	My	Temp :	-21 2.401358	000 GHz	
20		<del>/</del>			J	T2		.80 dBm	
30									
40							<u> </u>		
>@au	N						A CA	and the same of th	3DB
60									
70									
80									
-90									
Center 2.	402 GHz		300	kHz/			Spa	n 3 MHz	

Date: 13.MAR.2024 14:24:03

Page 34 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



Product:		SPEAKER	BOX		Test	Mode:		Keep tran	
Mode	K	eeping Tran			_	Voltage		DC7	.4V
Temperature		24 deg.	C,		Hur	nidity		56%	RH
Test Result:	Pass				Detector		PK		
20dB Bandwidth		1.278M	Hz						
Ref 10 d	Bm	*Att 20	) dB	*RBW 30 *VBW 10 *SWT 5	00 kHz	2	.440126	.34 dBm 000 GHz	
-0			M	1	<u> </u>	ndB [T BW 1 Temp 1	.278000 [T1 nd	.50 dBm	A
20			M	o qu	My A	Temp 2	[T1 nd	<del>D]</del> .13 dBm	
30									
-40 -90-						M	كمحمح		3DB
-60								, - <sub>f-wl</sub>	
70									
-90									
	44 GHz		300	kHz/			Spa	ın 3 MHz	

Page 35 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



Product:	SPEAKE		Test Mode:	Keep transmitting	
Mode	Keeping Tra	nsmitting	Test Voltage	DC7.4V	
Temperature	24 deg	. C,	Humidity	56% RH	
Test Result:	Pass	S	Detector	PK	
20dB Bandwidth	1.272M	ИНz			
Ref 10 dF	3m *Att 2	*RBW 30 *VBW 10 0 dB *SWT 5	00 kHz ms 2	1 [T1 ] -1.93 dBm .480120000 GHz	
			BW 1	.272000000 MHz	
-0		1 X	Temp 1	[T1 ndB] A -22.15 dBm	
PK IAXH			A. 2	.479358000 GHz	
-10	M	V V V	M. Temp 2	<del>[T1 ndb]</del> -21.61 dBm	
20			T2 2	.480630000 GHz	
			14		
30					
40					
_50			fund	tot.	
Ly Kales				booker	
60					
70					
80					
-90					
Center 2.	48 GHz	300 kHz/		Span 3 MHz	

Page 36 of 52

Span 3 MHz

Report No.: TW2403055-01E

Date: 2024-03-20



8DPSK								
Product:	S	SPEAKER BO	OX	Test Mo	de:	Ke	ep transm	itting
Mode	Kee	eping Transmi	tting	Test Volt	age		DC7.4V	7
Temperature		24 deg. C,		Humidi	ity		56% RI	I
Test Result:		Pass		Detecto	or		PK	
20dB Bandwidth		1.242MHz						
Ref 10 d	Bm	*Att 20 d	*VBW	LOO kHz 5 ms		.402000	.32 dBm	
				F	BW 1	.242000	000 MHz	
_0			Λ Λ Λ Λ		Temp 1	[T1 nd] -21	8] .41 dBm	A
1 PK MAXH		1 And	V/MV(	<u>ا</u> ۾ ل	2	.4013880	000 GHz	
10		14	\	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<del>Temp 2</del>	<del>- [T1 nd]</del> -21	.45 dBm	
20		<b>1</b> /		7	2 2	.402630	000 GHz	
30		7						
40	and the				$\bigvee$	M		3DB
- March	J**					WW	transport	
60								
70								
80								
-90								

Date: 13.MAR.2024 14:27:24

Center 2.402 GHz

300 kHz/

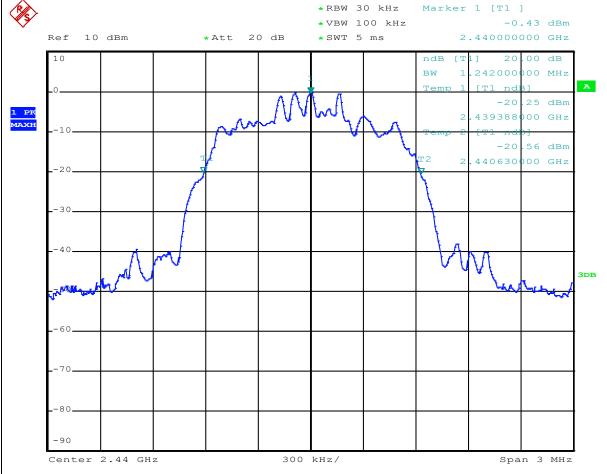
Page 37 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



8DPSK			
Product:	SPEAKER BOX	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC7.4V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.242MHz		
ā			



Date: 13.MAR.2024 14:36:24

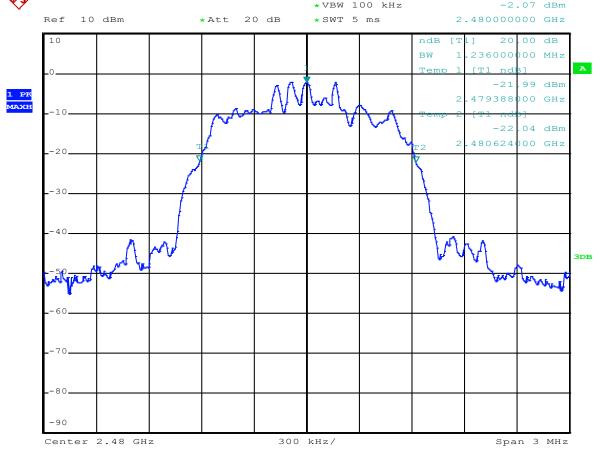
Page 38 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



8DPSK				
Product:	SPEAKER BOX	Test Mode:	Keep transmitting	
Mode	Keeping Transmitting	Test Voltage	DC7.4V	
Temperature	24 deg. C,	Humidity	56% RH	
Test Result:	Pass	Detector	PK	
20dB Bandwidth	1.236MHz			
*RBW 30 kHz Marker 1 [T1 ]  *VBW 100 kHz -2.07 dBm				



Date: 13.MAR.2024 14:42:32

Report No.: TW2403055-01E Page 39 of 52

Date: 2024-03-20



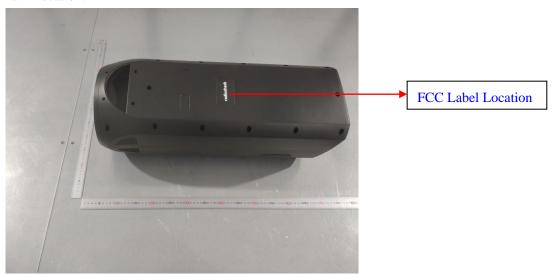
### 10.0 FCC ID Label

### FCC ID: 2BDUR-4001967

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:



Page 40 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



# 11.0 Photo of testing

## 11.1 Conducted test View



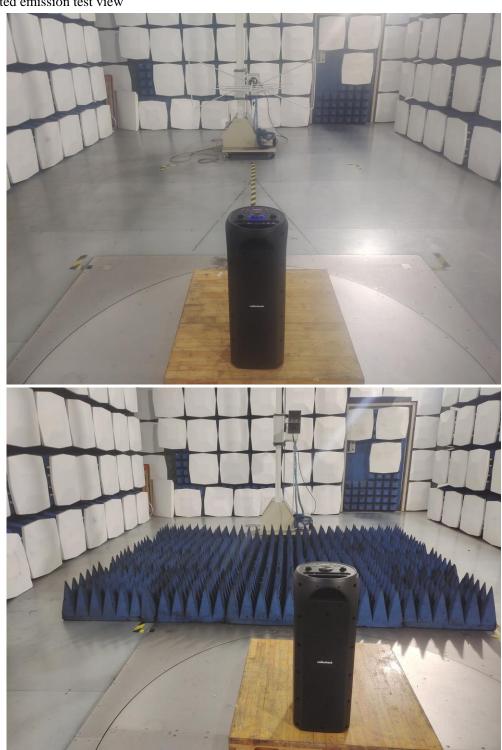
Page 41 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



## 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.

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.

Report No.: TW2403055-01E

Date: 2024-03-20



# 11.2 Photographs – EUT

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

Page 43 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



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

Page 44 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



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

Page 45 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



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

Report No.: TW2403055-01E Page 46 of 52

Date: 2024-03-20



Outside View



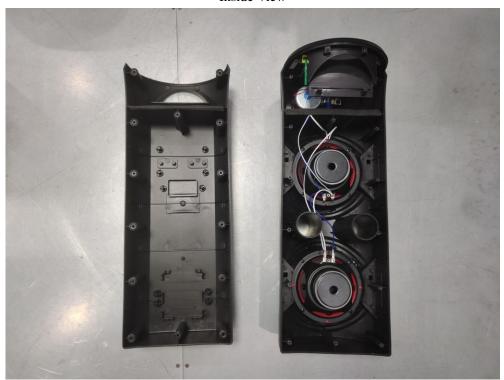
Page 47 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



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

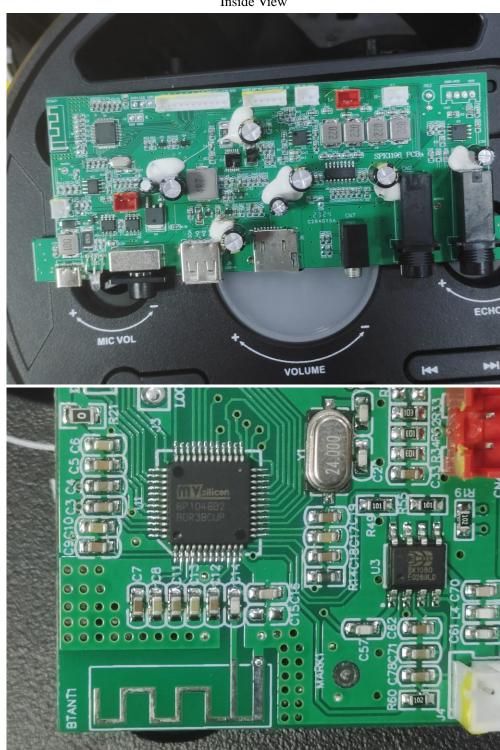
Page 48 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



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

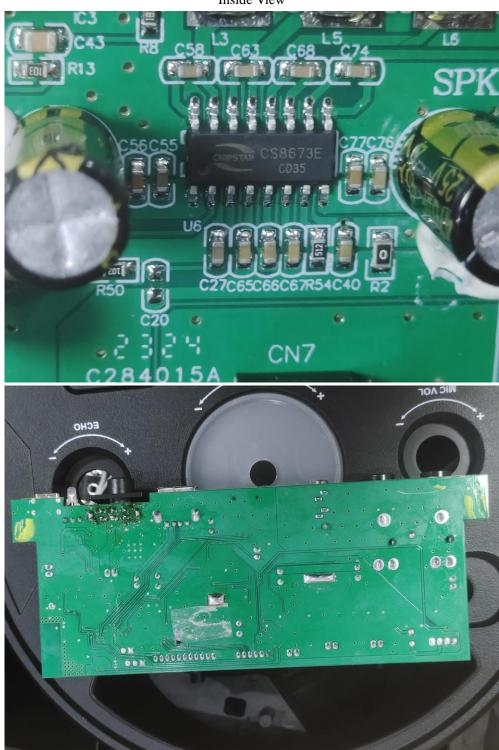
Page 49 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



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

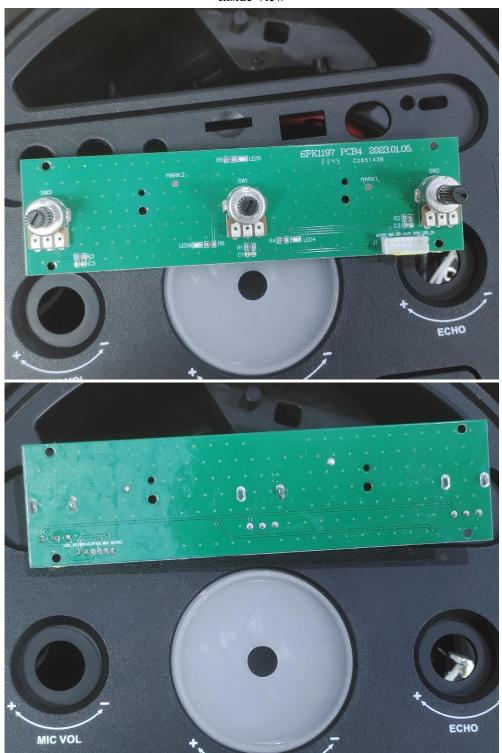
Page 50 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



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

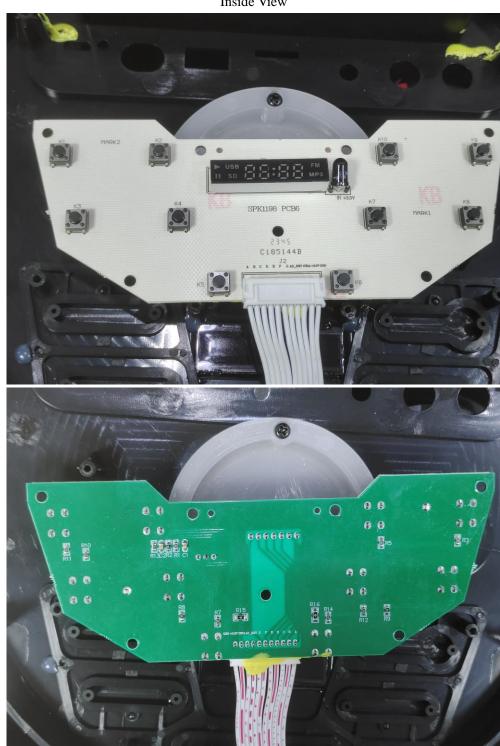
Page 51 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



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 an 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

Page 52 of 52

Report No.: TW2403055-01E

Date: 2024-03-20



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