



Report No.: TW2106084E File reference No.: 2021-06-22

Applicant: Xiamen Comfort Science & Technology Group Co.,Ltd

Product: Zero Gravity Massage Chair

Model No.: EW-16003SP, EW-16003HH, EW-16006HH, EW-16006ER,

EW-16005SD, EW-16007C, EW-16007B, EW-16007A, EW-847, EW-777, EW-16007, JL10005WL, EW-868H,

EW-868, EW-868L, EW-868M, EW-868S

Brand Name: 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

# Jack Chung

Jack Chung Manager

Dated: June 22, 2021

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

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# **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 17025:2005 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

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# Test Report Conclusion

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#### 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: Xiamen Comfort Science & Technology Group Co.,Ltd

Address: No.168 QianPu Road, Siming District, Xiamen city, Fujian Province P.R.China

Telephone: -Fax: --

# 1.3 Description of EUT

Product: Zero Gravity Massage Chair

Manufacturer: Zhangzhou Easepal Industrial Corporation

Address: No.228 JiaoSong Road, Taiwanese Investment Zone, Zhangzhou City, Fujian

Province, P.R.China

Brand Name: N/A

Model Number: EW-16003SP

Additional Model Name EW-16003HH, EW-16006HH, EW-16006ER, EW-16005SD, EW-16007C,

EW-16007B, EW-16007A, EW-847, EW-777, EW-16007, JL10005WL,

EW-868H, EW-868, EW-868L, EW-868M, EW-868S

Hardware Version: V1.1 Software Version: V4.2

Serial No.: 8PTXL678WG

Rating: 120V~, 60Hz, 230W

Modulation Type: GFSK, Pi/4D-QPSK, 8DPSK (Bluetooth)

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz Channel Number: 79

Antenna Designation PCB antenna with gain -0.61dBi Max (Get from the antenna specification

provided by the applicant)

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1.4 Submitted Sample: 2 pcs

1.5 Test Duration

2021-06-07 to 2021-06-22

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

Terry Tang

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2020-06-23	2021-06-22
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2020-06-23	2021-06-22
Power sensor	Anritsu	MA2491A	32263	2020-06-23	2021-06-22
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic			N/A	2020-07-06	2021-07-05
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2020-06-23	2021-06-22
RF Cable	Zhengdi	7m		2020-06-23	2021-06-22
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05

# 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

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#### 3.0 **Technical Details**

#### 3.1 **Summary of test results**

The EUT has	been teste	d according	to the	following	specifications:

Standard	Test Type	Result	Notes
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

#### 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

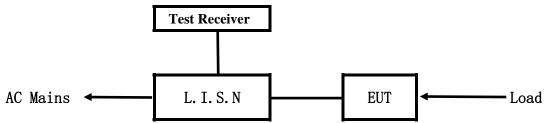
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#### 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test

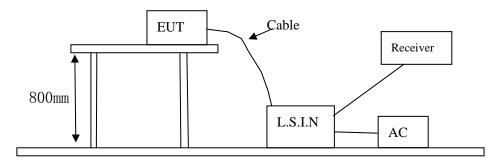


**EUT: Equipment Under Test** 

# 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.

### A. EUT

Device	Manufacturer	Model	FCC ID
Zero Gravity Massage Chair	Zhangzhou Easepal Industrial Corporation	EW-16003SP (see the page 4 for additional models)	YMX-8PTXL678WG

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#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

# C. Peripherals

Device	Manufacturer	Model	Rating

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

8 8 1					
Frequency	Limits (dB $\mu$ 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:

Pass

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

**EUT Operating Environment** 

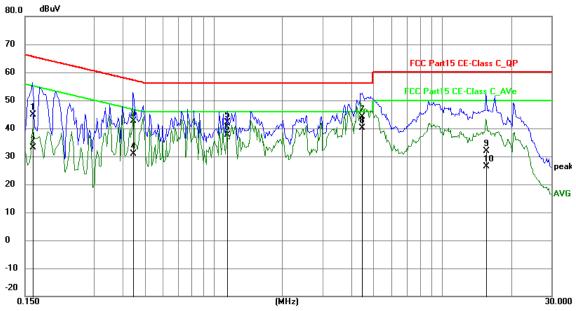
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Communication by BT** 

Model: EW-16003SP

**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	0.1617	35.00	9.78	44.78	65.38	-20.60	QP	Р
2	0.1617	23.39	9.78	33.17	55.38	-22.21	AVG	Р
3	0.4464	32.79	9.77	42.56	56.94	-14.38	QP	Р
4	0.4464	21.19	9.77	30.96	46.94	-15.98	AVG	Р
5	1.1523	32.25	9.79	42.04	56.00	-13.96	QP	Р
6	1.1523	27.93	9.79	37.72	46.00	-8.28	AVG	Р
7	4.4664	34.30	9.91	44.21	56.00	-11.79	QP	Р
8	4.4664	30.21	9.91	40.12	46.00	-5.88	AVG	Р
9	15.5307	21.55	10.41	31.96	60.00	-28.04	QP	Р
10	15.5307	15.99	10.41	26.40	50.00	-23.60	AVG	Р

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

**EUT Operating Environment** 

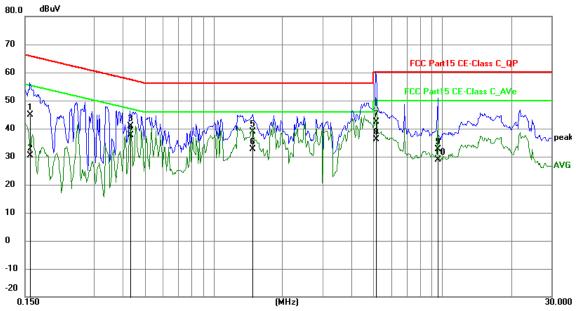
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Communication by BT** 

Model: EW-16003SP

**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	0.1578	35.02	9.78	44.80	65.58	-20.78	QP	Р
2	0.1578	20.66	9.78	30.44	55.58	-25.14	AVG	Р
3	0.4308	31.13	9.77	40.90	57.24	-16.34	QP	Р
4	0.4308	27.85	9.77	37.62	47.24	-9.62	AVG	Р
5	1.4838	29.10	9.79	38.89	56.00	-17.11	QP	Р
6	1.4838	22.88	9.79	32.67	46.00	-13.33	AVG	Р
7	5.1294	32.45	9.93	42.38	60.00	-17.62	QP	Р
8	5.1294	26.32	9.93	36.25	50.00	-13.75	AVG	Р
9	9.5871	22.42	10.14	32.56	60.00	-27.44	QP	Р
10	9.5871	18.85	10.14	28.99	50.00	-21.01	AVG	Р

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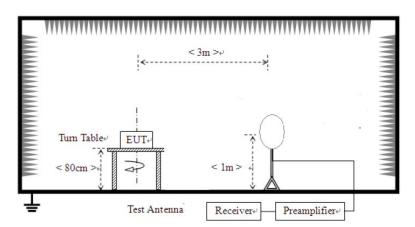


#### **6** Radiated Emission Test

- 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 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

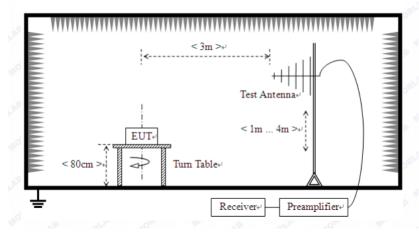


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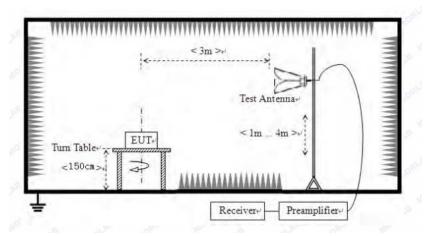
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For radiated emissions from 30MHz to1GHz



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.

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#### 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	ental (3m)	Field Strength of Harmonics (3m)			
(MHz)	mV/m	dBuV/m uV/m dBuV/m				V/m	
2400-2483.5	50	94 (Average)	114 (Peak)	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.

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

Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
30-88	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. 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.
- 5. 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.
- 6. 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.

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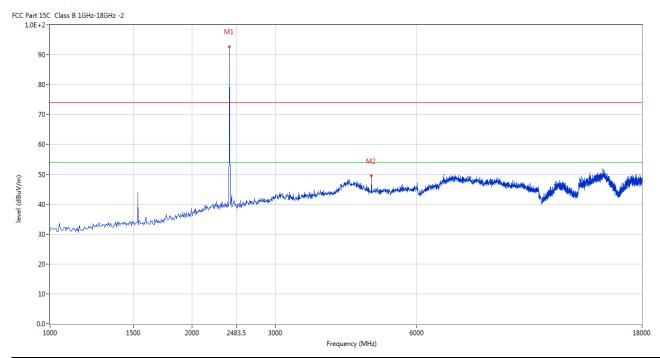


### 6.5 Test result

# A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal



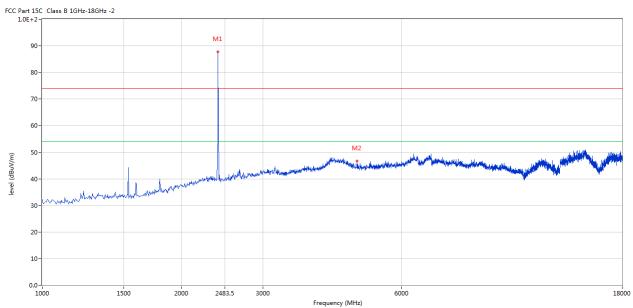
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.149	92.72	-3.57	114.0	-21.28	Peak	203.00	100	Horizontal	Pass
2	4802.799	49.58	3.12	74.0	-24.42	Peak	203.00	100	Horizontal	Pass

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# Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.149	87.71	-3.57	114.0	-26.29	Peak	161.00	100	Vertical	Pass
2	4802.799	46.70	3.12	74.0	-27.30	Peak	156.00	100	Vertical	Pass

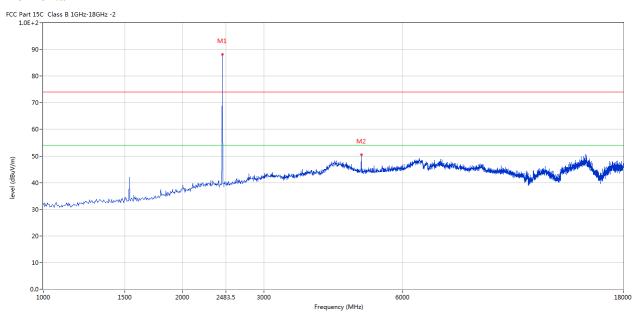
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Please refer to the following test plots for details: Middle Channel-2441MHz

#### **Horizontal**



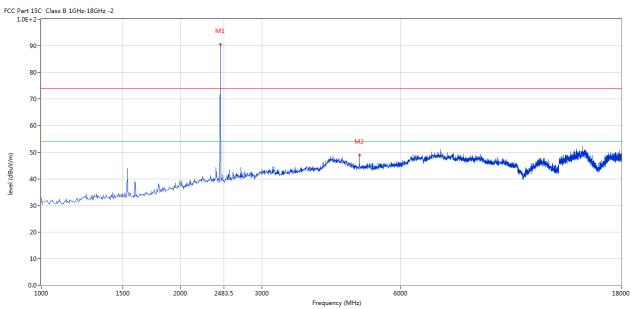
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.390	88.18	-3.57	114.0	-25.82	Peak	69.00	100	Horizontal	Pass
2	4879.280	50.56	3.20	74.0	-23.44	Peak	69.00	100	Horizontal	Pass

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# Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.390	90.65	-3.57	114.0	-23.35	Peak	137.00	100	Vertical	Pass
2	4883.529	48.98	3.20	74.0	-25.02	Peak	142.00	100	Vertical	Pass

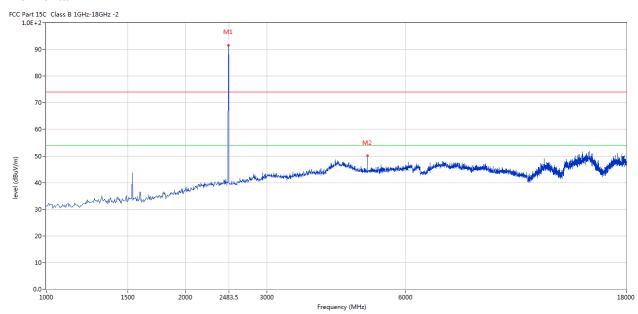
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Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.630	91.57	-3.57	114.0	-22.43	Peak	189.00	100	Horizontal	Pass
2	4960.010	50.03	3.36	74.0	-23.97	Peak	189.00	100	Horizontal	Pass

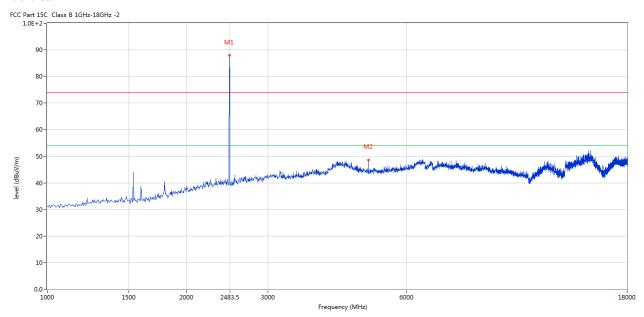
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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.630	87.91	-3.57	114.0	-26.09	Peak	143.00	100	Vertical	Pass
2	4960.010	48.59	3.36	74.0	-25.41	Peak	147.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (3) Margin=Emission-Limits
- (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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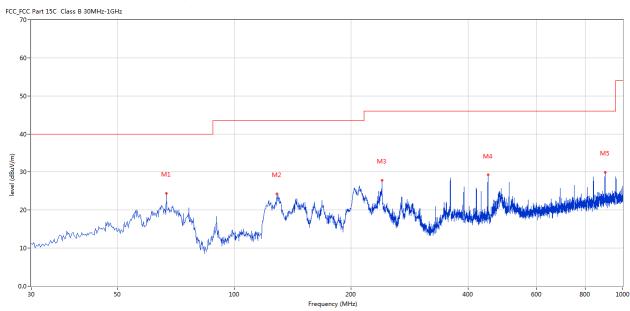


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	66.851	24.35	-14.24	40.0	-15.65	Peak	349.00	100	Horizontal	Pass
2	128.915	24.25	-16.80	43.5	-19.25	Peak	296.00	100	Horizontal	Pass
3	239.953	27.78	-12.33	46.0	-18.22	Peak	203.00	100	Horizontal	Pass
4	449.663	29.21	-8.01	46.0	-16.79	Peak	193.00	100	Horizontal	Pass
5	900.115	29.89	-1.86	46.0	-16.11	Peak	309.00	100	Horizontal	Pass

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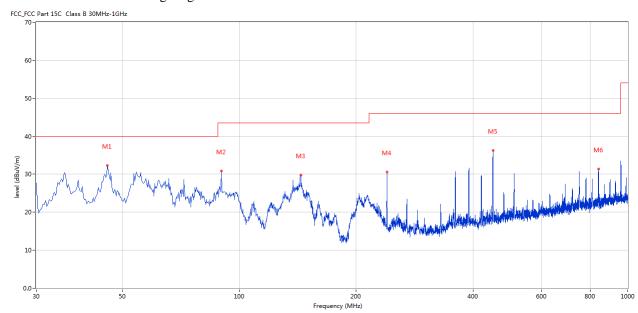


# Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	45.759	32.29	-11.40	40.0	-7.71	Peak	327.00	100	Vertical	Pass
2	89.883	30.79	-15.19	43.5	-12.71	Peak	104.00	100	Vertical	Pass
3	143.947	29.84	-17.10	43.5	-13.66	Peak	255.00	100	Vertical	Pass
4	239.953	30.55	-12.33	46.0	-15.45	Peak	130.00	100	Vertical	Pass
5	449.663	36.30	-8.01	46.0	-9.70	Peak	107.00	100	Vertical	Pass
6	840.717	31.43	-2.60	46.0	-14.57	Peak	239.00	100	Vertical	Pass

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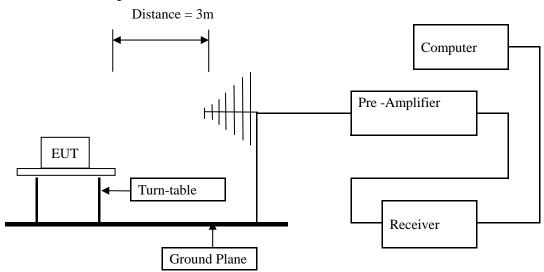


### 7. Band Edge

#### 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.

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

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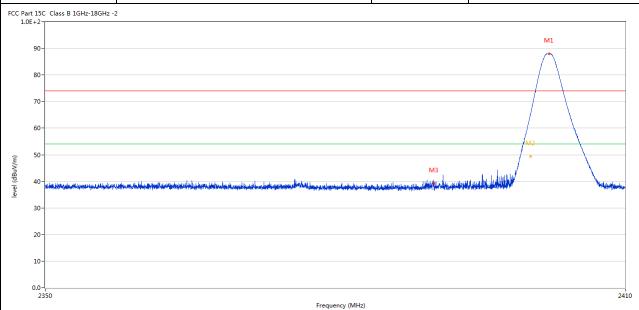
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### 7.6 Test Result

Product:	Zero Gravity Massage Chair	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2	2400.087	63.05	-3.57	74.0	-10.95	Peak	196.00	100	Horizontal	Pass
2**	2400.087	49.30	-3.57	54.0	-4.70	AV	196.00	100	Horizontal	Pass
3	2390.055	39.40	-3.53	74.0	-34.60	Peak	56.00	100	Horizontal	Pass

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3

2390.070

40.14

-3.53

74.0



Product:		Zero	Gravity M	Iassage Chair		Detector		Ve	rtical		
	Mode	K	Keeping Transmitting			est Voltage	120V~				
Te	mperature		24 deg	g. C,	I	Humidity		56%	6 RH		
Te	est Result:		Pas	SS							
Part 1	15C Class B 1GHz-18GHz 2-r	-2			•						
9	0-							N C	1		
8	0-								$\overline{}$		
7	0-										
									\		
6	0-										
5	0-							J. J.	-		
4	O - Late I and distributed by I wanted	الدائيات منظوا المائية والمائية والمائية	والمراقع والمنافظ والمراجع والمأوان	describer a delication is uniforally to defend	ar (laresa bed à la seconda	M3		المالية		أشريون والمالات	
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0.	0-				nguangu (MHz)					2410	
0.	0-	Bereite	T		equency (MHz)	Dunta	Table	11	ANIT		
0.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT		
0. No.	Frequency (MHz)	(dBuV/m)	(dB)	Limit (dBuV/m)	Over Limit (dB)		(o)	(cm)		Verdi	
0.	Frequency			Limit	Over Limit	Detector Peak			ANT Vertical	verdi Pass	
0. <b>No.</b>	Frequency (MHz)	(dBuV/m)	(dB)	Limit (dBuV/m)	Over Limit (dB)		(o)	(cm)		Verd	

-33.86

Peak

121.00

100

Vertical Pass

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2\*\*

2483.497

48.88

-3.57

54.0



F	Product:	Zero	Gravity N	Aassage Chai	ir	Polarity		H	orizontal	
	Mode	k	Keeping Tr	ansmitting	,	Test Voltag	ge 120V~			
Tei	mperature		24 deg. C,			Humidity	7	56% RH		
Те	st Result:		Pa	SS						
C Part 1:	5C Class B 1GHz-18GHz	-2								
90										
70	)-									
60	)-		/							
50	)-			M-						
40		Paris will be the death of the register			Market Market Market	on a fifth and the standard of the standard first specific standard first spec	northwest migraphy winds	hama a wife and a stall wheley	والإيران والمرابط المطالب والمرابد والمرابط والمرابط والمرابط	and the state of
30	)-									
20	)-									
20										
10	)-									
0.0	)-			2483.5	; Frequency (MHz)					2500
0.0	)-	Results	Factor			Detector	Table	Height	ANT	2500 Verd
0.0	)-  -     2470	Results (dBuV/m)	Factor (dB)	1	Frequency (MHz)	Detector	Table (o)	Height (cm)	ANT	ı

-5.12

AV

188.00

100

Horizontal

Pass

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]	Product: Zero Gravity Massage C				r <b>D</b>	Detector		Vertical			
	Mode	K	eeping Tra	nsmitting	Tes	st Voltage		120	0V~		
Te	mperature		24 deg	g. C,	Н	lumidity		56% RH			
Те	est Result:		Pas	S							
CC Part 1 1.0E+	15C Class B 1GHz-18GHz	-2									
9	00-										
8	60-										
7	70-										
	60-		/								
6											
	60 -		,	M2							
	0-		,	M2				l	1		
	10 - Millian	internation and the state of th			When the section	Libraria de Alemadeido de Maldedo ja	art diese bijkarter pleise der	inducible and the following the second	nd gather has his back to describ		
level (dBuV/m)		inital second by a second by			A Life word by week with	Liber 1830 ji bira dilahir di Libebiya	عطريان المراجع	interdental selection of the	e de galent, militar de	days, s. colo,	
(m/\mu   dBu\/\mu   a		enistismaelvinas mikustus			Mily make make the	Abras as Abrasida in Abbellin	عطر عليون بالمبارث بالمبارث بالمبارث والمبارث وا	interitorial describerated	والمراجع المراجع والمراجع والم	de estado.	
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(m/\delta\delta\delta)   55   56   56   56   56   56   56   5		interligence and the second se			Wildren Harrison	Armen Armekis Abdus	od. Her, told off co. ph. a. Jan.	ighidhandddiriolae digwedd	rajang pakan dang	days, a, de	
5   5   6   6   6   6   6   6   6   6		nistanalis annis de de		2483.5	requency (MHz)	hine na Alimaki ku Adado, a	ad the Add of the American	njustimostibili utekori borost	regardin de la	2500	
(m/\delta\delta\delta)   55   56   56   56   56   56   56   5		Results	Factor	2483.5		Detector	Table	Height	ANT	2500	
(m//ngp)   44 3 3 2 1 1 0.	0-		Factor (dB)	2483.5	requency (MHz)					2500	
(w//ngg/)   4   4   3   3   2   4   4   4   4   4   4   4   4   4	00- 00- 00- 00- 00- 00- 00- 00- 00- 00-	Results		2483.5	requency (MHz)  Over Limit		Table	Height		2500	
((W/W/m)) 4 3 3 2 1 1 0.	Frequency (MHz)	Results (dBuV/m)	(dB)	Limit (dBuV/m)	requency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2500 Verdict	

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

- 2. 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.
- 3. 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.

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# 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 -0.61dBi Max. It fulfills the requirement of this section.

Test Result: Pass

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FSK Modulation										
Product:	Zero (	Gravity Mass	age Chair		Test	t Mode:		Keep tran	smitting	
Mode	Ke	Keeping Transmitting			Test Voltage			120V~		
Temperature		24 deg. C.	g. C,			midity		56%	RH	
Test Result:		Pass			De	etector	PK			
OdB Bandwidth		1.046MHz	Z						-	
Ref Lvl	Delta		.16 dB	RI VI	ВW	30 ki	Hz	F Att	20 dB	
10 dBm		1.04609	218 MHz	SV	VT	8.5 m	s U:	nit	dBı	m
			2 <b>Z</b>	n 4		<b>v</b> <sub>1</sub>	[T1]	-16		P
0			-	<u> </u>		<b>1</b>	[T1]	2.40149	198 GH2	
			$\sim$	L	$\bigwedge_{\Lambda}$			1.04609		z
-10		$\sim$			<u> </u>	$\nabla_2$	[T1]	3	.84 dBr	n
—D1 −16.10	5 dBm	<b>₹</b> \						2.40194	890 GH2	Z
-20	J GBIII	N.				* 1	\			
1MAX		$\sqrt{}$				V				11
-30	Jana /							√~M		
July John July							V	h	mente	V
-50										
-60										
-70										
-80										
-90										

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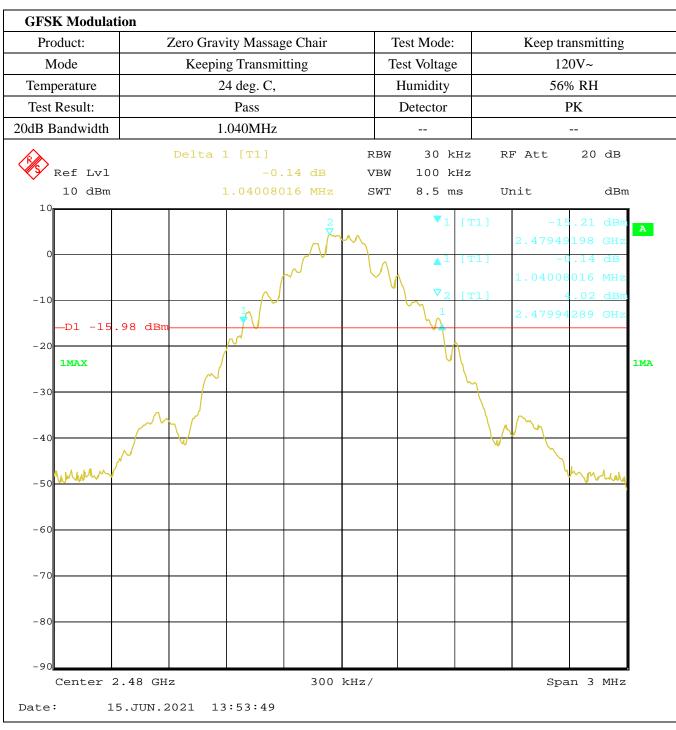


GFSK Modulat	tion							
Product:	Zero Gra	vity Massage Cha	ir	Test Mod	e:	Keep tra	ansmitting	
Mode	Keepi	ng Transmitting		Test Volta	ge	12	0V~	
Temperature		24 deg. C,		Humidity	y	56% RH PK		
Test Result:		Pass		Detector	r			
20dB Bandwidth		1.046MHz						
	Delta	1 [T1]		BW 30	kHz R	F Att	20 dB	
Ref Lvl		-0.25 di		BW 100			1-	
10 dBm		1.04609218 M	Hz S	WT 8.5	ms U	nit	dBm	
0			2 	▼.		-15 2.44049	.39 dBm	A
					1 [T1] 2 [T1]	1.04609	.25 dB 218 MHz .32 dBm	
-10 D1 -15.	68 dBm	~		7	-	2.44094	289 GHz	
-20 1MAX	~				V			1MA
-30						M		
-40	N V					My	mundh	
-50								
-60								
-70								
-80								
-90 Center 2	.441 GHz	31	00 kHz/			Spa	an 3 MHz	
Date: 15	.JUN.2021 1	3:48:59						

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Pi/4D-QPSK M Product:		ity Massage Chair	Test Mode	. Kaan t	ransmitting
				-	
Mode		g Transmitting	Test Voltag		20V~
Temperature	2	4 deg. C,	Humidity	56	5% RH
Test Result:		Pass	Detector		PK
0dB Bandwidth	1	.371MHz			
Ŕ	Marker	1 [T1 ndB]	RBW 30 ]	kHz RF Att	20 dB
Ref Lvl	ndB	20.00 dB	VBW 100 1	kHz	
10 dBm	BW	1.37074148 MHz	SWT 8.5 r	ms Unit	dBm
10			<b>v</b> <sub>1</sub>	[T1] -	-0.41 dBm
			1	2.4022	6152 GHz
0		med n	M A a nd	В 2	0.00 dB
			V V V V V V V V V V V V V V V V V V V	1.3707	4148 MHz
-10		/	\_\_	T1] -2	20.73 dBm
	$\wedge$		$ abla_{ m T}$	2.4013	
-20	T/L		V T	▽	.9.92 dBm
1MAX				2.4026	8838 GHz
-30	لم ا				
-30				$\mathcal{N}$	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	( Mary )			J. J. J.	~~~~
-40	•				
-50					
-60					
-70					
9.0					
-80					
-90 Center 2	402 GHz	300	kHz/	C <sub>n</sub>	an 3 MHz
CCIICCI Z		300	/	SP	

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Product:   Zero Gravity Massage Chair   Test Mode:   Keep transmitting	Pi/4D-QPSK N	Modulatio	n								
Temperature 24 deg. C, Humidity 56% RH  Test Result: Pass Detector PK  20dB Bandwidth 1.377MHz	Product:	2	Zero Gravi	ty Massag	ge Chair		Test Mode:		Keep tr	ansmitting	
Test Result: Pass Detector PK  20dB Bandwidth 1.377MHz	Mode		Keepin	g Transmi	tting	-	Test Voltage		12	20V~	
20dB Bandwidth	Temperature		24	4 deg. C,			Humidity		56% RH		
Marker 1 [T1 ndB]	Test Result:	Pass					Detector		PK		
Ref Lvl ndB 20.00 dB VBW 100 kHz 10 dBm BW 1.37675351 MHz SWT 8.5 ms Unit dBm  10	20dB Bandwidth		1.	377MHz							
10 dBm BW 1.37675351 MHz SWT 8.5 ms Unit dBm 2.44126.52 GHz 2.00 dB 1.37675351 MHz 2.00 dBm 2.4403 764 GHz 2.22 dBs 2.4416 339 GHz 1MA 2.4416 340 GHz 1MA 2.4416 340 GHz 1MA 2.4416 340 GHz 1MA 2.4416 340 GHz 1MA 2.4416 GHz 1MA 2.441			Marker	1 [T1 r	ndB]	RBW	30 k	Hz R	F Att	20 dB	
10 0 1 (T1) 2.44126152 GHz 2.00 dBr 2.00 dBr 2.44031764 GHz 2.44169439 GHz  1.37675351 MHz 2.44109439 GHz  1.37675351 MHz  2.44109439 GHz  1.37675351 MHz 2.44109439 GHz  1.37675351 MHz 2.44109439 GHz  1.37675351 MHz  2.44109439 GHz  1.37675351 MHz  2.44109439 GHz  1.37675351 MHz  2.44109439 GHz  1.37675351 MHz  2.44109439 GHz  1.37675351 MHz  2.44109439 GHz  1.37675351 MHz  2.44109439 GHz  1.37675351 MHz  2.44109439 GHz  1.37675351 MHz  2.44109439 GHz  1.37675351 MHz  2.44109439 GHz  1.37675351 MHz  2.44109439 GHz  1.37675351 MHz  2.44109439 GHz  1.37675351 MHz  2.44109439 GHz  1.37675351 MHz  2.44109439 GHz  1.37675351 MHz	•										
The state of the s			BW 1	376753	851 MHz	SWT	8.5 m	ıs Uı	nit	dBm	
2.44126152 GHz 2.00 dB 2.44031764 GHz 2.44031764 GHz 2.44031764 GHz 2.44163439 GHz  IMAX  -30  -60  -70  -80  Center 2.441 GHz  300 kHz/  Span 3 MHz							<b>v</b> <sub>1</sub>	[T1]		0.19 dBm	A
-10 -10 -10 -10 -10 -10 -10 -10 -10 -10							7		2.44126	5152 GHz	
-10					J~~~~	$\sim \sim$	ndi	8	20		
2.44031764 GHz -20.22 dBm -20.1MAX -30 -40 -60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz							V VA-	[ [ [ ] ]			
-20 1MAX -30 -40 -50 -60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz	-10								2.44031		
1MAX -30 -40 -50 -60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz			Ţ <b>ſ</b>				$ abla_{\mathrm{T}_{2}}$	( <b>12</b> 1)	-20	0.22 dBm	
-30 -40 -50 -60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz			Ĭ					<u> </u>	2.44169	9439 GHz	1 м д
-40 -50 -60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz	IFIAA		<i>~</i>					\			IMA
-40 -50 -60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz		^	~					M	ΛΛ .	_ ^	
-50 -60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz	V ~~~	$\wedge$	V					<u> </u>	V. M	'SW'	
-60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz	-40										
-60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz											
-70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz	-50										
-70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz											
-80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz	-60										
-80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz											
-90 Center 2.441 GHz 300 kHz/ Span 3 MHz	-70										
-90 Center 2.441 GHz 300 kHz/ Span 3 MHz											
Center 2.441 GHz 300 kHz/ Span 3 MHz	-80										
Center 2.441 GHz 300 kHz/ Span 3 MHz											
	-90										
Date: 15.JUN.2021 14:00:39	Center 2	2.441 GF	łz		300	kHz/			Spa	an 3 MHz	
	Date: 1	5.JUN.2	021 14	:00:39							

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Product:	Zero Gravity Massag	ge Chair	Test Mode:	Keep tr	ansmitting	
Mode	Keeping Transmit	tting	Test Voltage	120V~ 56% RH PK		
Temperature	24 deg. C,		Humidity			
Test Result:	Pass		Detector			
20dB Bandwidth	1.377MHz					
<u>ka</u>	Marker 1 [T1 n	ndB] R	BW 30 kHz	RF Att	20 dB	
Ref Lvl	ndB 20.	00 dB V	BW 100 kHz	:		
10 dBm	BW 1.376753	351 MHz S	8.5 ms	Unit	dBm	
10			<b>▼</b> 1 ['	r1]	0.01 dBm	
			1	2.48026		
0	~~	W/ My	M ndB	20	0.00 dB	
			V RW VA	1.37679	351 MHz 9.80 dBm	
-10			1	2.47933		
	<b>T</b> _N		$\nabla_{\mathrm{T2}}$	<b>[21</b> ] -2		
-20	<u> </u>			2.48069	9439 GHz	
IMAX	ا کس				I.M.	
-30				M. M.		
V ~~~~				W Con		
-40						
-50						
-60						
-70						
-80						
-90						
Center 2.48	8 GHz	300 kHz/		Spa	an 3 MHz	

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8QPSK Modula	ation							
Product:	Zero Grav	ity Massage Chair		Test Mode:		Keep tr	ansmitting	
Mode	Keepir	g Transmitting		Test Voltage		12	20V~	
Temperature	2	4 deg. C,		Humidity		569	% RH	
Test Result:		Pass	Detector		PK			
20dB Bandwidth	1	.317MHz						
Ŕ	Marker	1 [T1 ndB]	RE	30 ki	Iz R	F Att	20 dB	
Ref Lvl	ndB	20.00 dB	VE					
10 dBm	BW	1.31663327 MHz	SW	IT 8.5 ms	s Ui	nit	dBm	
10				<b>v</b> <sub>1</sub>	[T1]		1.04 dBm	A
0		1				2.40188	8878 GHz	
		~~ ~~~				20	0.00 dB	
			W	V V BW	[T1]	1.31663	3327  MHz $3.05  dBm$	
-10		J				2.40133		
	T.			$oldsymbol{ abla}_{\mathrm{T}2}$	<b>T</b> {T1]	-19	9.21 dBm	
-20					1	2.40265	230 GHz	1MA
-30								1101
-40					M	$\mathcal{N}_{\mathcal{N}}$	~~~	
10						·		
-50								
-60								
-70								
-80								
-90 Center 2.	402 GHz	300	kHz/			gn:	an 3 MHz	
	-	1:05:47	,,,,,			500	5 1.1112	

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8QPSK Modula	ation					
Product:	Zero Gravity Massage	Chair	Test Mode:	Keep tra	nsmitting	
Mode	Keeping Transmittir	ng	Test Voltage	120	0V~	
Temperature	24 deg. C,		Humidity	56%	6 RH	
Test Result:	Pass		Detector	PK		
20dB Bandwidth	1.317MHz					
Ŕ	Marker 1 [T1 nd	3] RE	BW 30 kHz	RF Att	20 dB	
Ref Lvl	ndB 20.00	) dB VE				
10 dBm	BW 1.31663325	7 MHz SW	TT 8.5 ms	Unit	dBm	
0		1	ndB BW	2.44088 20 1.31663 T1] -18	.59 dBm 277 GHz .00 dB 327 MHz	
-20	T		∇ <sub>T2</sub> ∇ <sub>[</sub>	2.44033 T1] -18		
-30			\	Υ	1MA	
~~~	MIN				~~~	
-40						
-50						
-60						
-70						
-80						
-90 Center 2.	.441 GHz	300 kHz/		Spa	n 3 MHz	
Date: 15	.JUN.2021 14:10:55					

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Date: 2021-06-22



8QPSK Modulation						
Product:	Zero Gravity Massage Chair		Test Mode:	Keep trans	Keep transmitting	
Mode	Keeping Transmitting		Test Voltage	120V	120V~	
Temperature	24 deg. C,		Humidity	56% RH		
Test Result:	Pass		Detector	PK	PK	
20dB Bandwidth	1.311MHz					
· ·	Marker 1 [T1 ndE	3] R	BW 30 kHz	RF Att 2	20 dB	
Ref Lvl	ndB 20.00	) dB V	BW 100 kHz			
10 dBm	BW 1.31062124	MHZ S	WT 8.5 ms	Unit	dBm	
10			<b>▼</b> 1 ['	r1] 1.3	3 dBm	
		1		2.4798887	8 GHz	
0	\	$\nearrow \backslash$	ndB	20.0	0 dB	
		~~	BW BW	1.3106212		
-10	J		V 1/1		55 dBm	
	Ţ <b>Ĺ</b>		V <sub>T2</sub> T		8 GHz 85 dBm	
-20	<del> </del>		<u> </u>		0 GHz	
1MAX			\	<b>L</b>	1MA	
-30				W/W~	<b>V</b>	
-40						
-50						
-60						
-70						
-80						
-90 Center 2.48 (	Hz.	300 kHz/		Span	3 MHz	
	.2021 14:11:33	,		Z <sub>F</sub> dii		

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# 10.0 FCC ID Label

### FCC ID: YMX-8PTXL678WG

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:



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#### 11.0 Photo of testing

#### 11.1 Conducted test View--



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## Radiated emission test view



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#### 11.2 Photographs – EUT





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Photographs - EUT







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Outside View





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Inside view





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Inside view





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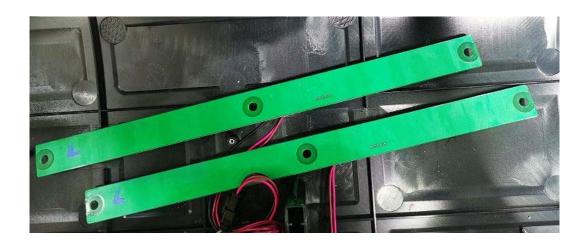
Report No.: TW2106084E

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Inside view



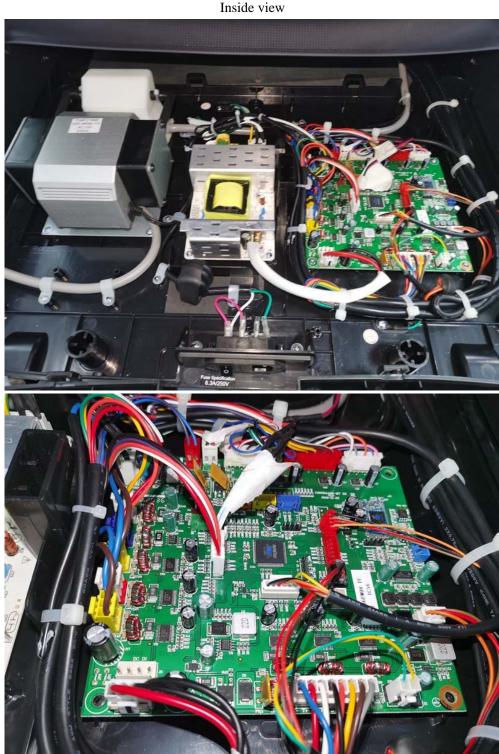


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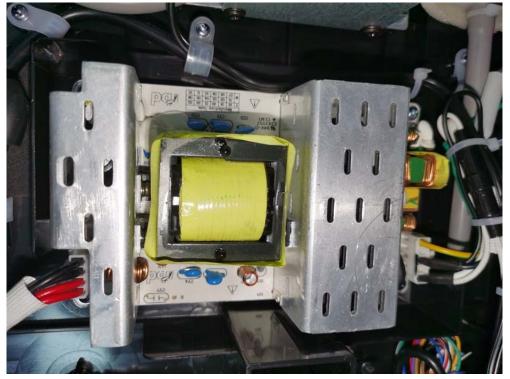
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Inside view





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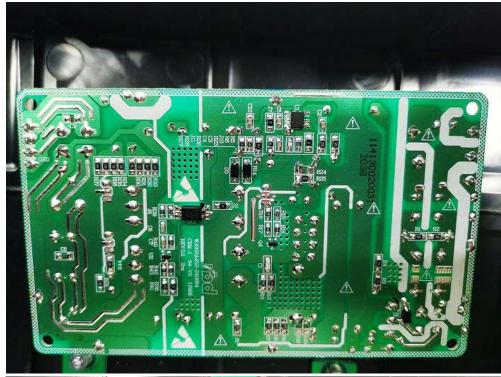
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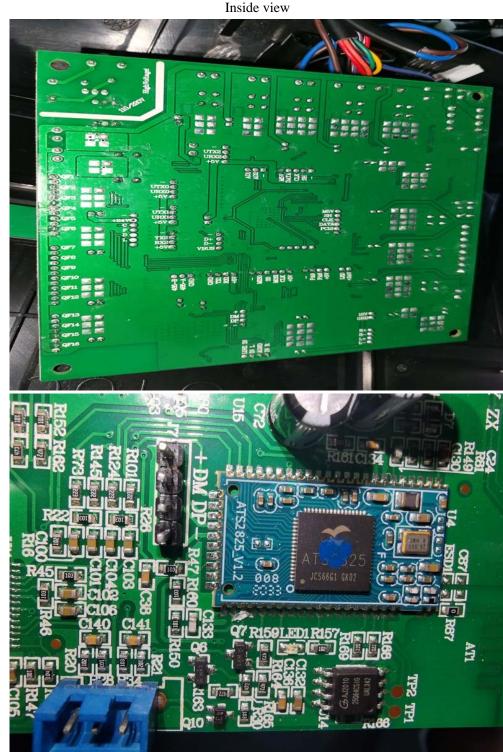
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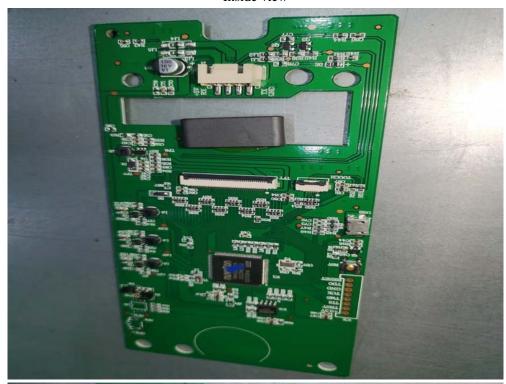
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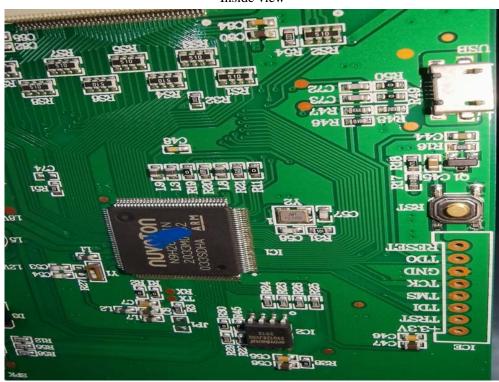
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Outside View





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Inside view





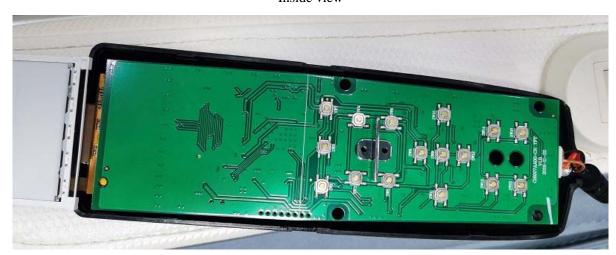
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# Inside view

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Outside View--Alternative control board





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Report No.: TW2106084E

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Inside view--Alternative control board





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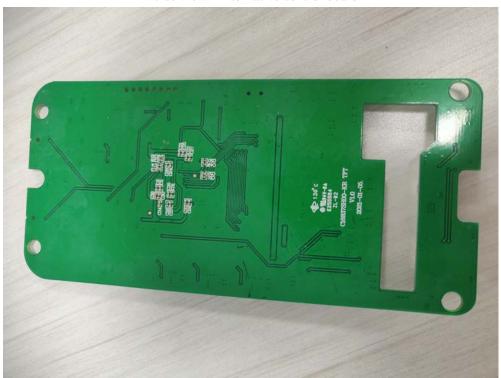
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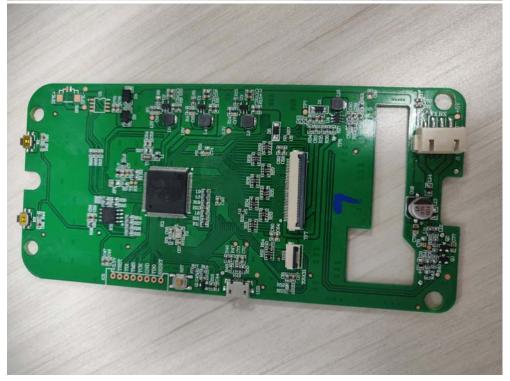
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Inside view--Alternative control board





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Inside view--Alternative control board



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Model: EW-868



-- End of the report--