

File reference No.: 2022-08-10

Applicant: Jiangxi EQi Industrial Co., Ltd.

Product: Household electric treadmill

Model No.: T5001B, E-S6

Trademark: EQI

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

Terry Tang

Manager

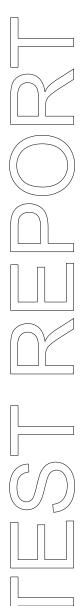
Dated: August 10, 2022

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

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



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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 17025:2017 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

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

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

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

A2LA (Certification Number:5013.01)

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

Date: 2022-08-10



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: Jiangxi EQi Industrial Co., Ltd.

Address: Luliang Road, Yining Town, Xiushui County, Jiujiang City, Jiangxi Province

Telephone: 0792-7990988

Fax: --

1.3 Description of EUT

Product: Household electric treadmill

Manufacturer: Jiangxi EQi Industrial Co., Ltd.

Address: Luliang Road, Yining Town, Xiushui County, Jiujiang City, Jiangxi Province

Trademark: EQI
Model Number: T5001B
Additional Model Name E-S6

Rating: Input: 120V~, 60Hz, 14.5A, 1286W

Modulation Type: GFSK, π/4DQPSK Operation Frequency: 2402-2480MHz

Channel Number: 79
Channel Separation: 1MHz
Hardware Version: EFC-B-V3

Software Version: 1.0.0

Serial No.: B220811DA1MA

Antenna Designation PCB antenna with gain 0dBi Max (Declared by the applicant)

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

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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

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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	2022-06-17	2023-06-16
LISN	R&S	EZH3-Z5	100294	2022-06-17	2023-06-16
LISN	R&S	EZH3-Z5	100253	2022-06-17	2023-06-16
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-06-17	2023-06-16
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2022-06-17	2023-06-16
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2022-06-17	2023-06-16
Power sensor	Anritsu	MA2491A	32263	2022-06-17	2023-06-16
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic			N/A	2022-07-01	2023-06-30
EMI Test Receiver	RS	ESVB	826156/011	2022-06-17	2023-06-16
EMI Test Receiver	RS	ESH3	860904/006	2022-06-17	2023-06-16
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2022-06-17	2023-06-16
Spectrum	HP/Agilent	E4407B	MY50441392	2022-06-17	2023-06-16
Spectrum	RS	FSP	1164.4391.38	2022-01-15	2023-01-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2022-06-17	2023-06-16
RF Cable	Zhengdi	7m		2022-06-17	2023-06-16
RF Switch	EM	EMSW18	060391	2022-06-17	2023-06-16
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-06-17	2023-06-16
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-06-17	2023-06-16
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04

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 f	following	specifications:
	~~~~		,		000000000000000000000000000000000000000

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

#### 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

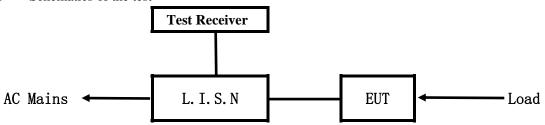
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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#### 5. Power Line Conducted Emission Test

#### 5.1 Schematics of the test

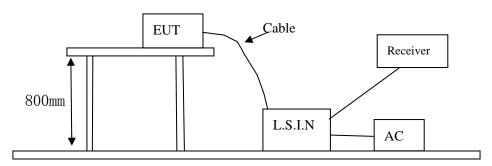


**EUT: Equipment Under Test** 

## 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.4 -2014.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



# 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. 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	vice Manufacturer		FCC ID
Household electric treadmill	Jiangxi EQi Industrial Co., Ltd.	T5001B, E-S6	2A4NH-S4

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#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

### C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2014

- 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 $\mu$ V)			
(MHz)	Quasi-peak Level	Average Level		
0.15 ~ 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:

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

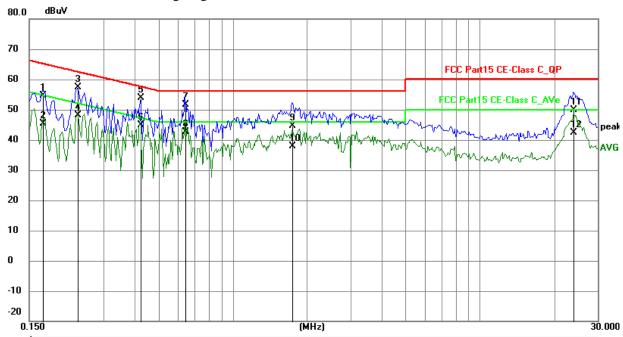
# **EUT Operating Environment**

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

**EUT set Condition: Communication by BT** 

**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	0.1695	44.74	9.77	54.51	64.98	-10.47	QP	Р
2	0.1695	35.55	9.77	45.32	54.98	-9.66	AVG	Р
3	0.2358	47.72	9.75	57.47	62.24	-4.77	QP	Р
4	0.2358	38.50	9.75	48.25	52.24	-3.99	AVG	Р
5	0.4230	44.09	9.76	53.85	57.39	-3.54	QP	Р
6	0.4230	35.00	9.76	44.76	47.39	-2.63	AVG	Л
7	0.6414	41.96	9.78	51.74	56.00	-4.26	QP	Р
8	0.6414	32.73	9.78	42.51	46.00	-3.49	AVG	Р
9	1.7412	34.74	9.80	44.54	56.00	-11.46	QP	Р
10	1.7412	28.05	9.80	37.85	46.00	-8.15	AVG	Л
11	23.9859	38.84	10.93	49.77	60.00	-10.23	QP	Р
12	23.9859	31.40	10.93	42.33	50.00	-7.67	AVG	Р

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

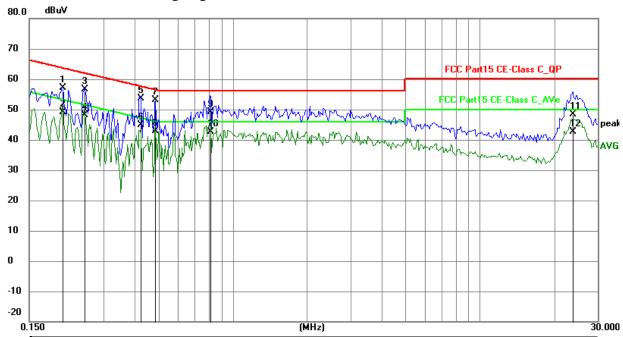
**EUT Operating Environment** 

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

**EUT set Condition: Communication by BT** 

**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	0.2046	47.30	9.75	57.05	63.42	-6.37	QP	Р
2	0.2046	39.45	9.75	49.20	53.42	-4.22	AVG	Ъ
3	0.2514	46.84	9.75	56.59	61.71	-5.12	QP	Р
4	0.2514	38.43	9.75	48.18	51.71	-3.53	AVG	Р
5	0.4230	43.95	9.76	53.71	57.39	-3.68	QP	Ъ
6	0.4230	35.08	9.76	44.84	47.39	-2.55	AVG	П
7	0.4854	43.44	9.77	53.21	56.25	-3.04	QP	Р
8	0.4854	33.01	9.77	42.78	46.25	-3.47	AVG	Р
9	0.8130	39.38	9.78	49.16	56.00	-6.84	QP	Р
10	0.8130	32.93	9.78	42.71	46.00	-3.29	AVG	Р
11	23.8220	37.41	10.92	48.33	60.00	-11.67	QP	Р
12	23.8220	31.70	10.92	42.62	50.00	-7.38	AVG	Р

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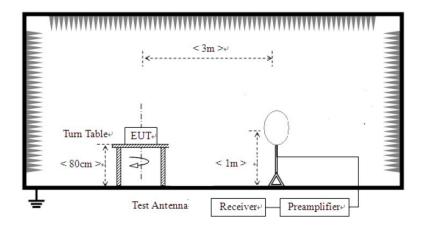


#### **6** Radiated Emission Test

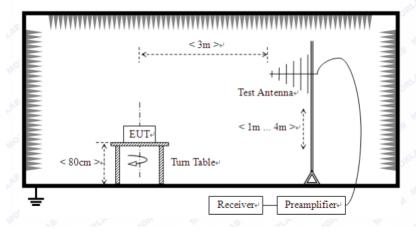
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size 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



For radiated emissions from 30MHz to1GHz



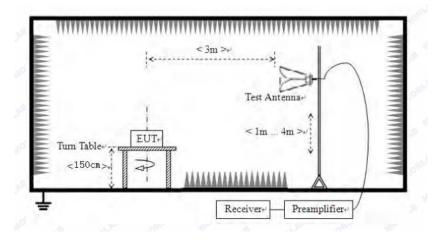
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For radiated emissions above 1GHz



- 6.2 Configuration of The EUT

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

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

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

Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field S	trength of Harmo	onics (3m)
(MHz)	mV/m	V/m dBuV/m			dBu	V/m
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.

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### 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. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
- 6. All modulation type were tested and only the worst case was recorded in the test report. GFSK modulation was the worst case.

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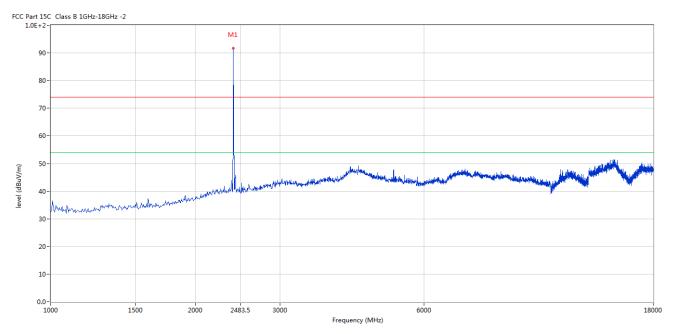


#### 6.5 Test result

# A Fundamental & Harmonics Radiated Emission Data

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

### Horizontal



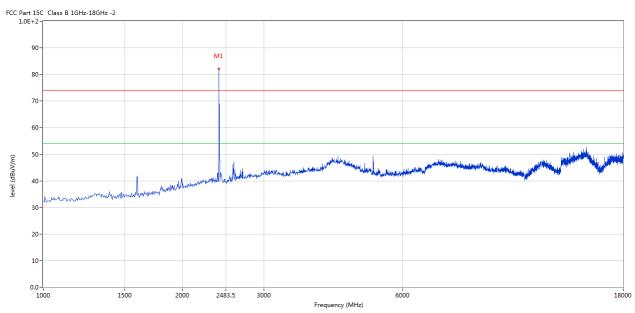
١	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	1	2402	91.79	-3.57	114.0	-22.21	Peak	91.00	100	Horizontal	Pass

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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	82.35	-3.57	114.0	-31.65	Peak	173.00	100	Vertical	Pass

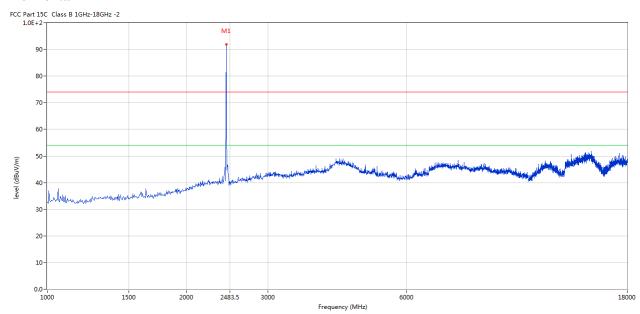
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Please refer to the following test plots for details: Middle Channel-2441MHz

#### **Horizontal**



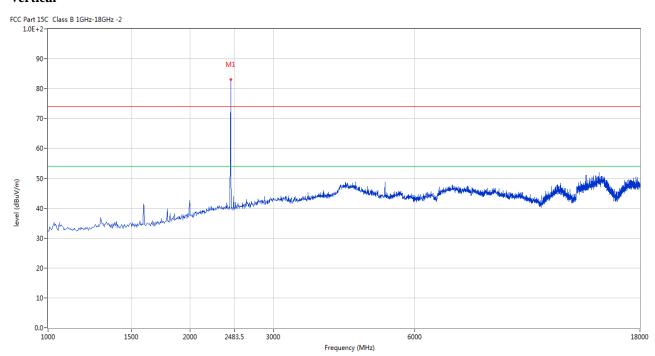
Ī	No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
	1	2441	91.93	-3.57	114.0	-22.07	Peak	149.00	100	Horizontal	Pass

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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2441	82.96	-3.57	114.0	-31.04	Peak	169.00	100	Vertical	Pass

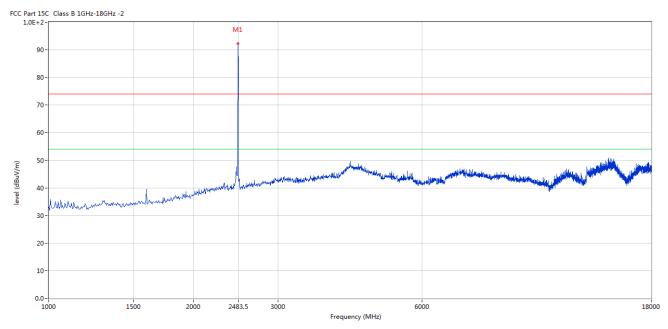
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Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2480	92.20	-3.57	114.0	-21.80	Peak	160.00	100	Horizontal	Pass

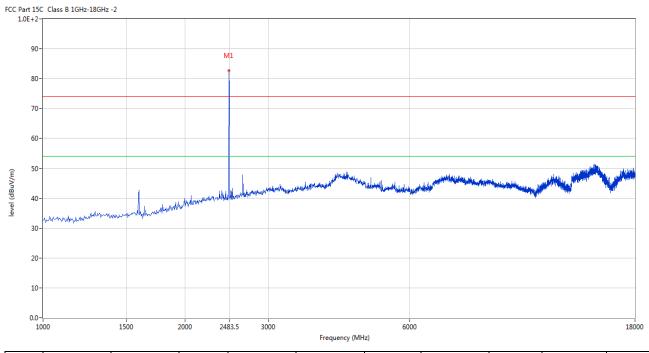
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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2480	82.67	-3.57	114.0	-31.33	Peak	192.00	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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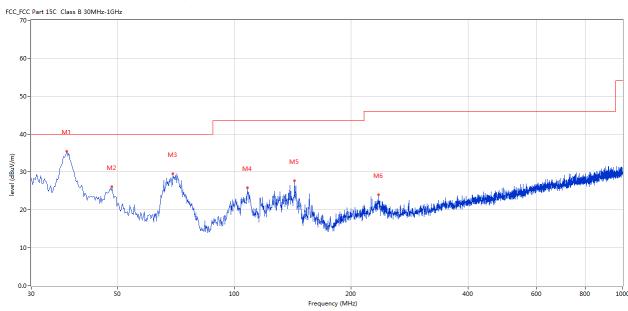


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	37.031	35.43	-13.17	40.0	-4.57	Peak	225.00	100	Horizontal	Pass
2	48.425	26.10	-11.22	40.0	-13.90	Peak	107.00	100	Horizontal	Pass
3	69.518	29.58	-15.48	40.0	-10.42	Peak	328.00	100	Horizontal	Pass
4	108.065	25.81	-13.42	43.5	-17.69	Peak	305.00	100	Horizontal	Pass
5	142.977	27.66	-17.26	43.5	-15.84	Peak	305.00	100	Horizontal	Pass
6	235.346	24.03	-12.51	46.0	-21.97	Peak	297.00	100	Horizontal	Pass

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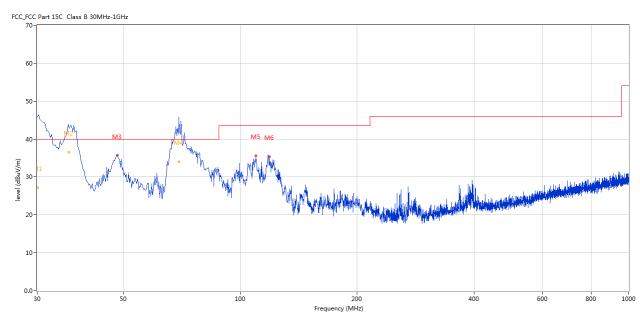


# Radiated Emission In Vertical (30MHz----1000MHz)

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*	30.047	27.19	-14.19	40.0	-12.81	QP	108.00	200	Vertical	Pass
2*	36.115	36.49	-13.68	40.0	-3.51	QP	0.00	103	Vertical	Pass
3	48.183	35.66	-11.26	40.0	-4.34	Peak	92.00	100	Vertical	Pass
4*	69.484	34.00	-15.48	40.0	-6.00	QP	100.00	119	Vertical	Pass
5	109.763	35.57	-13.61	43.5	-7.93	Peak	77.00	100	Vertical	Pass
6	118.975	35.34	-15.06	43.5	-8.16	Peak	116.00	100	Vertical	Pass

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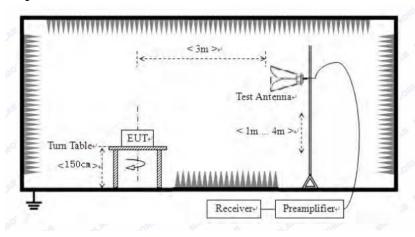


#### 7. Band Edge

#### 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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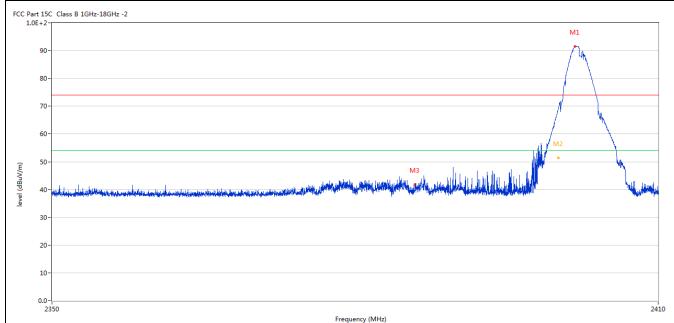
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#### 7.6 Test Result

Product:	Household electric treadmill	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	120V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



Ī	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
	1	2401.767	91.64	-3.57	74.0	17.64	Peak	160.00	100	Horizontal	N/A
ſ	2	2399.998	69.07	-3.57	74.0	-4.93	Peak	160.00	100	Horizontal	Pass
ſ	2**	2399.998	51.22	-3.57	54.0	-2.78	AV	160.00	100	Horizontal	Pass
	3	2390.025	41.85	-3.53	74.0	-32.15	Peak	154.00	100	Horizontal	Pass

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]	Product:	Hou	sehold elec	tric treadmil	1	Detecto	or		Vertical	
	Mode	K	Keeping Tra	nsmitting		Test Volt	age	120V		
Te	mperature		24 deg	g. C,		Humidi	ty	5	66% RH	
Те	est Result:		Pas	s						
C Part 1	LSC Class B 1GHz-18GHz 2-	-2								
2.02										
9	0-							M1		
8	0-							^	\	
7	0-								1	
6	0-							1.M2	1	
5	0-					М3		1 du -	__	
4	0-	der feltbestein som er bereit metre met be	يهينه أداد سنين الدينا أرادانهم	المنافية المنافية المنافية المنافية المنافية	Marien . Same Prophylade . Marien		البيادا كالربيية بالملد		Name of the last o	لفلينه
	0-									
2	0-									
1	0-									
0.	0-									
	2350			Fre	equency (MHz)					2410
					Over Limit	Detector	Table	I I a i a la t		
	Frequency	Results	Factor	Limit	Over Limit	Detector	lable	Height	ANT	Verd
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	(dBuV/m)	(dB)	Detector	(o)	(cm)	ANI	Verc

1	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
,	1	2401.722	82.33	-3.57	74.0	8.33	Peak	172.00	100	Vertical	N/A
2	2	2399.998	58.94	-3.57	74.0	-15.06	Peak	177.00	100	Vertical	Pass
2	2**	2399.998	48.51	-3.57	54.0	-5.49	AV	177.00	100	Vertical	Pass
(	3	2389.995	44.21	-3.53	74.0	-29.79	Peak	47.00	100	Vertical	Pass

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]	Product:		Household	l electric trea	ıdmill		Polarit	y	Horizon	ıtal	
	Mode		Keepin	g Transmitti	ng	,	Test Volta	age	120V	r	
Te	mperature		2	4 deg. C,			Humidity 56%				
Te	est Result:			Pass							
C Part 1	15C Class B 1GHz-18GHz	: -2									
9	10-		45								
	10-			M							
7	70-			M							
6	60-	كالمستمران	<i>C</i> "	M	<u> </u>						
. 5	60-			ŗ	1.						
. 4					Mullion.	ALL STREET	MALAN PARAMETER	والمراط والمعاطية بالمعاطية		Much	
4	in the children	AND THE RESERVE OF THE PARTY OF			hadden Hi	MAKAN MA	pipithod y to Michigal prima	والتوالي والمراجع والمتاهد أو	a destruction of the last	Maria	
3	in the children	artist plantiffer "			Mark Comment	adirah merekka jakob da	alphino phintely applies	Andrea Jest Angles (Angles Angles	n depotent married polything south	Aligina	
2	10-	Maria de la			Ladden M.	ndirohampohkundrah du	nipitha _{li} nipithal _a poptha	uluphi uniphing papini	n parting parting graphing parting par	Allynik	
3 2 1	0-	ANTHONIS OF THE STATE OF THE ST			I williams	ndersk paperik podravil og	alathan, de lath the genetral	uhatti unitah jainta	n de principal de la company de la compa	Physiole 1	
3 2 1	10-			2483.	5 Frequency (MHz)	adder Andrew Andrew Andrew	alatha, allatha, aprita	uluphit asiphu juphu	LANGE METAL PROPERTY OF THE PR	2500	
3 2 1 0.	0-	Results	Factor	2483.		Detector	Table	Height	ANT	1	
3 2 1 0.	0-2470	Results (dBuV/m)	Factor (dB)	1	Frequency (MHz)	Detector	Table (o)	Height (cm)	ANT	1	
3 2 1 0.	0- 0- 0- 2470 Frequency		1 5.5151	Limit	Over Limit	Detector		_	ANT Horizontal	2500 Verdi	
3 2 1	Frequency (MHz)	(dBuV/m)	(dB)	Limit (dBuV/m)	Over Limit (dB)		(o)	(cm)		Verdi	

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]	Product:		House	ehold electri	c treadmill		Detec	ctor	Verti	cal
	Mode		Ke	eping Trans	mitting		Test Vo	ltage	120	V
Te	mperature			24 deg. <b>(</b>	Ξ,		Humi	dity	56% ]	RH
Te	est Result:			Pass						
1.0E+	0-	-2								
W/nngp) lenei 3	0	الملته والملك والمتعادية			M2	nddathlyfallugdd	u shil nga da ta da ca			
(m//ngp) Javai 3 2 2 1 0.	0		private .		2483.5 Frequency (MF		ichid kipadhan khachadha			2500
(m//nngp)   4   3   2   1   0.		Results	Factor	Limit		lz)  Detector	Table (o)	Height	ANT	
(m/Qpp) 4 3 3 2 1 0.	0	THE STATE OF THE S		Limit (dBuV/m)	Frequency (Mh	ı		The second section of the second section of the second section of the second section s	The second secon	
(m/\ngp)   4 3 3 2 2 1 0.	0- 0- 0- 0- 0- 0- 0- 0- 0- 7- 7- 8- 9- 9- 9- 9- 9- 9- 9- 9- 9- 9- 9- 9- 9-	Results	Factor		Over Limit	ı		Height	The second secon	z500 Verdid

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

2. All modulation type were tested and only the worst case was recorded in the test report. GFSK modulation 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 an PCB antenna. The antenna gain is 0dBi Max. It fulfills the requirement of this section. Test Result: Pass

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FSK Modulation										
Product:	Mec	hanical Ke	eyboard		Test Mod	le:	Keep transmitting			
Mode	Kee	ping Trans	mitting		Test Volta	age	120V			
Temperature		24 deg. <b>(</b>	Ξ,		Humidi	ty	56% RH			
Test Result:		Pass			Detecto	or		PK		
20dB Bandwidth		865.73kH	łz							
r)	Marker	1 [T1 r	ndB]	RBW	30 k	Hz R	F Att	20 dB		
Ref Lvl	ndB	20.	.00 dB	VBW	100 k	Hz				
10 dBm	BW 86	5.731462	293 kHz	SWT	8.5 m	s U	nit	dBr	n	
10					<b>v</b> ₁	[T1]	- (	0.61 dBm		
			1				2.40183	467 GHz	2	
0			1	Λ	ndE		20	.00 dB		
				$\bigvee \setminus$	BW ∇ _{T1}			293 kHz		
-10		,	N'	7	V-1-1	[T1]	-20 2 40154	0.85 dBm		
		m1 ~		V	VT2 ∇T1	[T1]	-20			
-20		<del></del>			<b>V</b>		2.40240	581 GHz		
-30									11	
						7				
-40	mus					W	~~			
-50								**************************************	1	
-60									1	
-70									1	
-80									-	
-90										

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Product:		Mechanical Keyboard						Keep transmitting			
Mode		Keepin	g Transmi	tting	Т	est Voltage		120V 56% RH			
Гетрегаture		2	4 deg. C,			Humidity					
Test Result:			Pass			Detector		PK			
dB Bandwidth	865.73kHz										
		Marker	1 [T1 r	ndB]	RBW	30 kH	Iz RI	7 Att	20 dB		
Ref Lvl		ndB		00 dB	VBW	100 kH					
10 dBm		BW 865	5.731462	293 kHz	SWT	8.5 ms	U1	nit	dBm	ı	
10						<b>v</b> ₁	[T1]	C	.52 dBm	Z	
				1				2.44083	467 GHz		
0				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\ Λ	ndB		20	.00 dB		
					V 4	BW ▼ _{T1}	86 [T1]	5.73146			
-10			/	$ \wedge $	7	A 1	[TT]	2.44054			
			TA		Ĭ	$V_{T2} \nabla_{T2}$	[T1]	-19	.88 dBm		
-20			7			T T		2.44140	581 GHz		
1MAX		^								1M	
-30							4				
-40	~~~~	$\sqrt{}$					V	ng de			
-50 h								7	www.nh		
-60											
-70											
-80											
-90 Center 2.	441 GF	Iz		300	kHz/			Spa	n 3 MHz		

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Product:	Mecha	nical Keyb	oard	Т	Test Mode:		Keep tra	nsmitting	
Mode	Keepi	ng Transmi	tting	Т	est Voltage	120V			
Temperature	,	24 deg. C,			Humidity		56% RH		
Test Result:		Pass		Detector		PK			
dB Bandwidth	8	865.73kHz							
	Marker	1 [T1 n	idB]	RBW	30 kH	z RI	7 Att	20 dB	
Ref Lvl	ndB	20.	00 dB	VBW	100 kH	Z			
10 dBm	BW 86	5.731462	93 kHz	SWT	8.5 ms	Ur	nit	dBm	ı
10					<b>v</b> ₁ [	T1]	1	.07 dBm	Z
			1				2.47982	866 GHz	-
0				Λ	ndB		20	.00 dB	
				ν η	BW ▼ _{T1}		5.73146		
-10			$\wedge$	7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	[T1]	2.47954	.09 dBm 008 GHz	
		TA		ľ	$\sqrt{t_5} \Delta^{13}$	[T1]	-19	.16 dBm	
-20		~			47	;	2.48040	581 GHz	
1MAX					V				1M
-30						7			
-40	M					W			
-50							V	nm	
-60									
-70									
-80									
-90									_

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π /4	π / <b>4DQPSK M</b> Product:		ion								
Pro	oduct:		Mecl	hanical Ke	eyboard		Test Mo	de:	Keep tr	ansmitting	
N	lode		Keep	oing Trans	mitting		Test Volt	age	1	20V	
Temp	perature			24 deg. (	Ξ,		Humidi	ty	56% RH		
Test	Result:			Pass			Detecto	or	PK		
20dB E	Bandwidth	1		1.226MF	łz						
Ŕ	<b>&gt;</b>		Marker 1 [T1 ndB]				30 k	Hz R	F Att	20 dB	
•	ef Lvl		ndB	20.	00 dB	VBW	100 k				
	10 dBm		BW 1	.226452	291 MHz	SWT	8.5 m	ıs U	nit	dBm	ı
10							<b>v</b> ₁	[T1]	-1	.28 dBm	A
					1				2.40183	467 GHz	-
0					\(\)		ndE	3	20	0.00 dB	
					$  \ \   \ \  $	lun.	BW ▼ _{T1}	[T1]	1.22645	291 MHz	
-10				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	~ <del>\</del>	· \~	W/\		2.40136		
			т7	$\sim$			D T	g [T1]	-23		
-20	1MAX		7				+	<u>-</u>	2.40259	218 GHz	1262
	IMAX							٦			1MA
-30											
-40		<u></u>	$\sim$						\ <u>\</u>		
-50	Norman S	<b>→</b>							1 L		
-60											
-70											
-80											
-90 <b>-</b>	Center 2	2.402 G	Hz		300	kHz/			Spa	n 3 MHz	U
Date:		.AUG.20		33:42		•			2,50		
расе:	9	.AUG.20	144 13:	33.44							

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π/4DQPSK M		1										
Product:		Mechan	ical Keyb	oard		Г	est Mode:		Keep tr	ansmitting		
Mode		Keeping	g Transmi	tting		T	est Voltage	e	1:	20V		
Temperature		24	4 deg. C,			Humidity			56% RH			
Test Result:			Pass				Detector		-	PK		
20dB Bandwidth	1.257MHz											
Ŕ	ľ	Marker	1 [T1 n	ıdB]	F	RBW	30 k	Hz R	F Att	20 dB		
Ref Lvl		ndB		00 dB		/BW	100 k					
10 dBm	I	BW 1	.256513	03 MHz	5	SWT	8.5 n	ns U	nit	dBm		
10							<b>v</b> ₁	[T1]	(	3.43 dBm	A	
				1					2.44083	3467 GHz		
0				$\Lambda$			ndl	3	20	0.00 dB		
				$\int \mathcal{M}$		M	M ▼ _T	1 [T1]	1.25651	$0.14~\mathrm{dBm}$		
-10						<i></i>	M		2.44035			
		$_{\mathtt{T}}\!\mathit{1}\!\!\!\!/$	√				$rac{1}{\sqrt{1}}$	22[T1]	-19	3.79 dBm		
-20		7					`	ζ,	2.44161	623 GHz	1MA	
											IMA	
-30												
-40	W/W	$\bigvee$						m	<b>/</b>			
-50									~~~~	Men		
-60												
-70												
-80												
-90 Center 2	.441 GH	z		300	kHz/	,			Spa	an 3 MHz		
Date: 9.	.AUG.202	22 13:	30:44									

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Product:	Mechar	nical Keyboa	ard	Γ	Test Mode:		Keep tra	nsmitting	
Mode	Keepin	g Transmitti	ng	Т	est Voltage	120V			
Temperature	2	4 deg. C,			Humidity		56% RH		
Test Result:			Detector		PK				
20dB Bandwidth	1.								
Ŕ	Marker	1 [T1 nd	.B]	RBW	30 kH2	z RI	Att	20 dB	
Ref Lvl	ndB		0 dB	VBW	100 kHz				
10 dBm	BW 1	.2565130	3 MHz	SWT	8.5 ms	Ur	nit	dBm	1
10					<b>v</b> ₁ [	T1]	1	.07 dBm	A
			1				2.47983	467 GHz	
0			$\Lambda$		ndB		20	.00 dB	
		~~^\	J W  ~	7	M N N N N N N N N N N N N N N N N N N N	[T1]	1.25651	303 MHz .51 dBm	
-10		/ • (7 • (7			$\sim$		2.47935		
	<b>T</b> /	~			<b>⊽</b> _T <u>∓</u> 2	[T1]	-19		
-20					1		2.48061	623 GHz	
-30					\				1M
-40	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					M	$\sqrt{}$		
-50	~						~~~		
-60									
-70									
-80									
-90 Center 2	40 01-		300 kHz	. /			G	n 3 MHz	

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#### 10.0 FCC ID Label

#### FCC ID: 2A4NH-S4

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

#### Outside View





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Date: 2022-08-10





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Outside View





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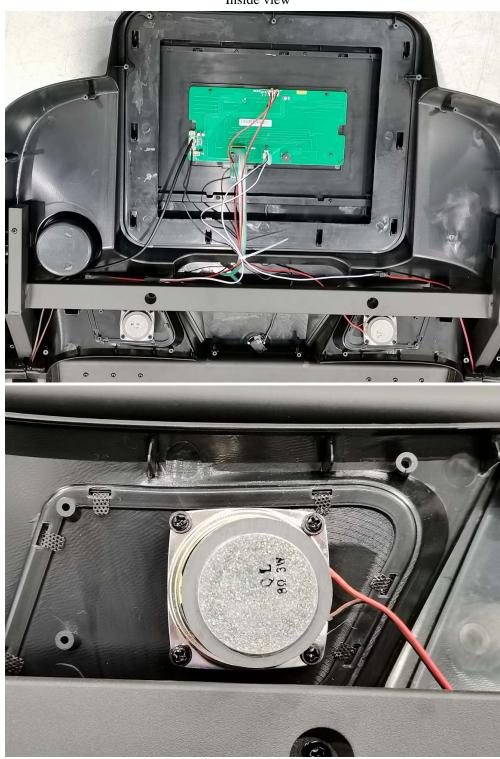
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Inside view



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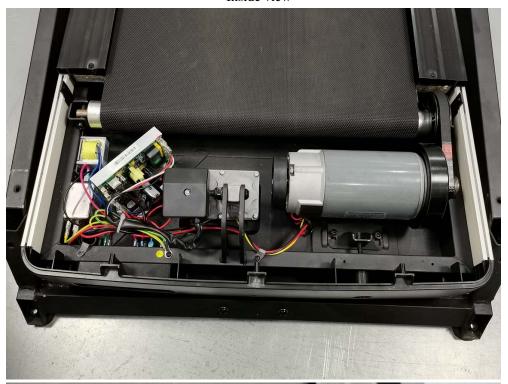
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Inside view





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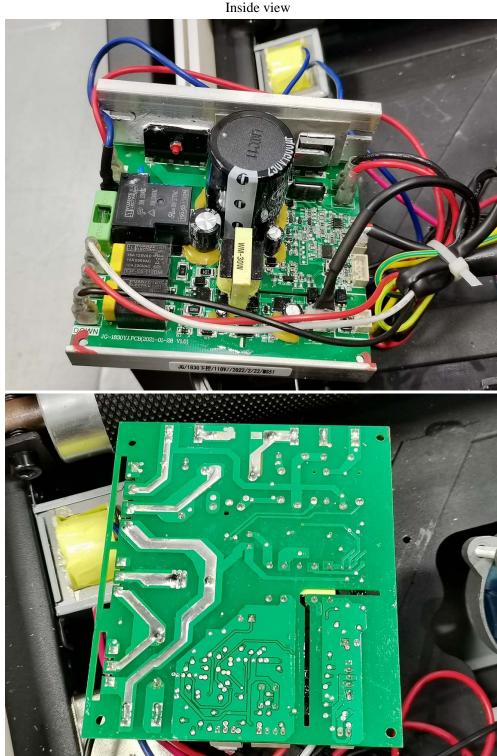
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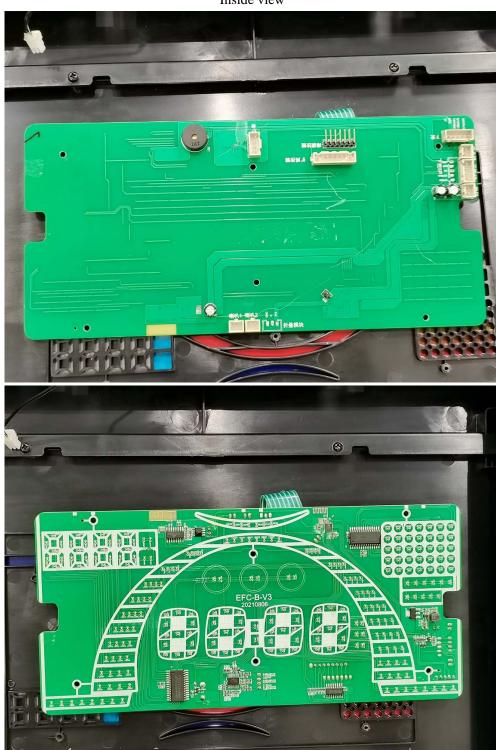
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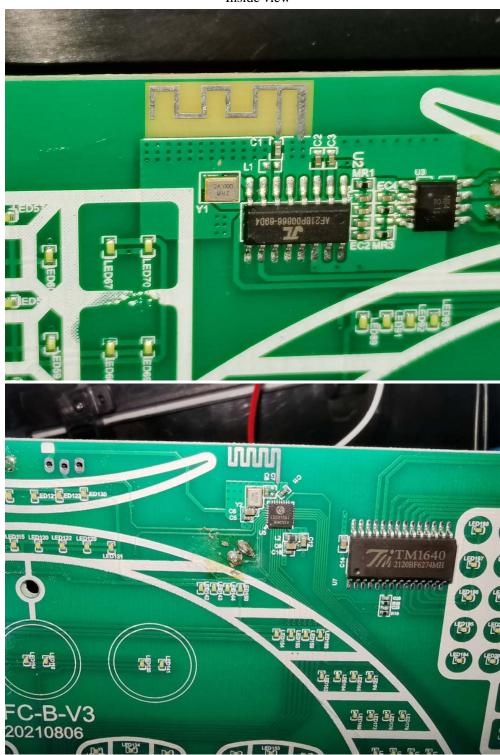
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Inside view



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