APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD

Massage Chair
Model No.: EC-622B, OS-Pro Omni

FCC ID: YMX-EC622B

Prepared for	:	XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD
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Report No.	:	ATE20172033
Date of Test	:	November 2, 2017
Date of Report	:	November 4, 2017

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Test Report Certification

Applicant	:	XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD
Manufacturer	:	XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD
EUT Description	:	Massage Chair
Model No.	:	EC-622B, OS-Pro Omni
Trade Mark	:	n.a.

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247: 2017
ANSI C63.10: 2013

The EUT was tested according to DTS test procedure of Apr 05, 2017 KDB558074 D01 DTS Meas Guidance v04 for compliance to FCC 47CFR 15.247 requirements

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : November 2, 2017
Date of Report: November 4, 2017

Prepared by : (Bob Wang, Engineer)

Approved & Authorized Signer : (Sean Liu, Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT	:	Massage Chair
Model Number	:	EC-622B, OS-Pro Omni (Note: We hereby state that these models are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement. So we prepare the EC-622B for test.)
Trade Mark	:	n.a.
Bluetooth version	:	BT V4.0 LE
Frequency Range	:	2402MHz-2480MHz
Number of Channels	:	40
Antenna Gain	:	2dBi
Antenna type	:	PCB Antenna
Power Supply	:	AC 110-120V; 60Hz
Modulation mode	:	GFSK
Applicant	:	XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD
Address	:	NO.168, QIANPU ROAD, SIMING DISTRICT, XIAMEN, FUJIAN, CHINA
Manufacturer	:	XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD
Address	:	NO.168, QIANPU ROAD, SIMING DISTRICT, XIAMEN, FUJIAN, CHINA
Date of sample received	:	October 20, 2017
Date of Test	:	November 2, 2017
Sample No.	:	1701620

1.2.Carrier Frequency of Channels

Channel	Frequceny (MHz)	Channel	Frequceny (MHz)	Channel	Frequceny (MHz)	Channe l	Frequceny (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

1.3.Special Accessory and Auxiliary Equipment

N/A

1.4.Description of Test Facility

EMC Lab	:	Recognition of accreditation by Federal Communications Commission (FCC) The Designation Number is CN1189 The Registration Number is 708358 Listed by Innovation, Science and Economic Development Canada (ISEDC) The Registration Number is 5077A-2 Accredited by China National Accreditation Service for Conformity Assessment (CNAS) The Registration Number is CNAS L3193 Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01
Name of Firm	:	Shenzhen Accurate Technology Co., Ltd.
Site Location	:	1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

1.5.Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 7, 2017	1 Year
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 7, 2017	1 Year
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 7, 2017	1 Year
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	Jan. 7, 2017	1 Year
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 13, 2017	1 Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 13, 2017	1 Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 13, 2017	1 Year
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 13, 2017	1 Year
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 7, 2017	1 Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 7, 2017	1 Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18G-10SS	N/A	Jan. 7, 2017	1 Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2485-2375/2510-60/11SS	N/A	Jan. 7, 2017	1 Year

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: **BLE Transmitting mode**
Low Channel: 2402MHz
Middle Channel: 2440MHz
High Channel: 2480MHz

3.2.Configuration and peripherals

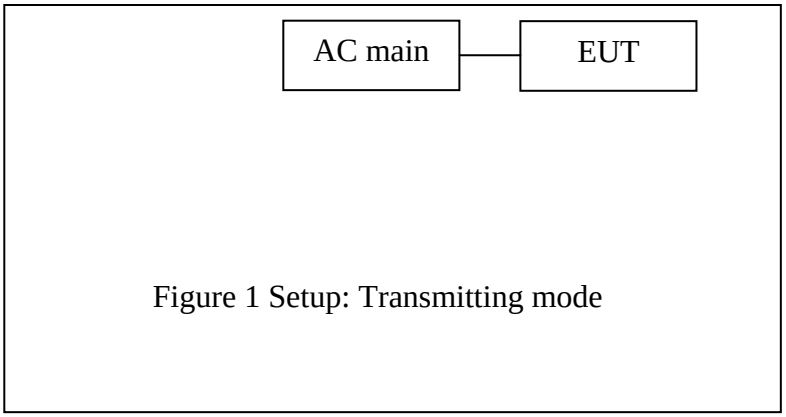


Figure 1 Setup: Transmitting mode

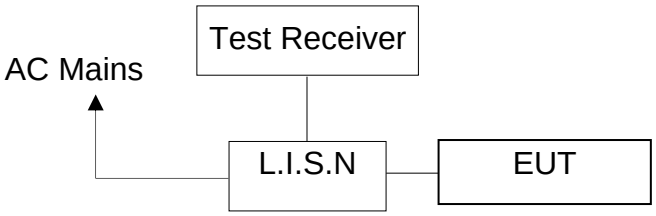
4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.207	AC Power Line Conducted Emission Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. POWER LINE CONDUCTED MEASUREMENT

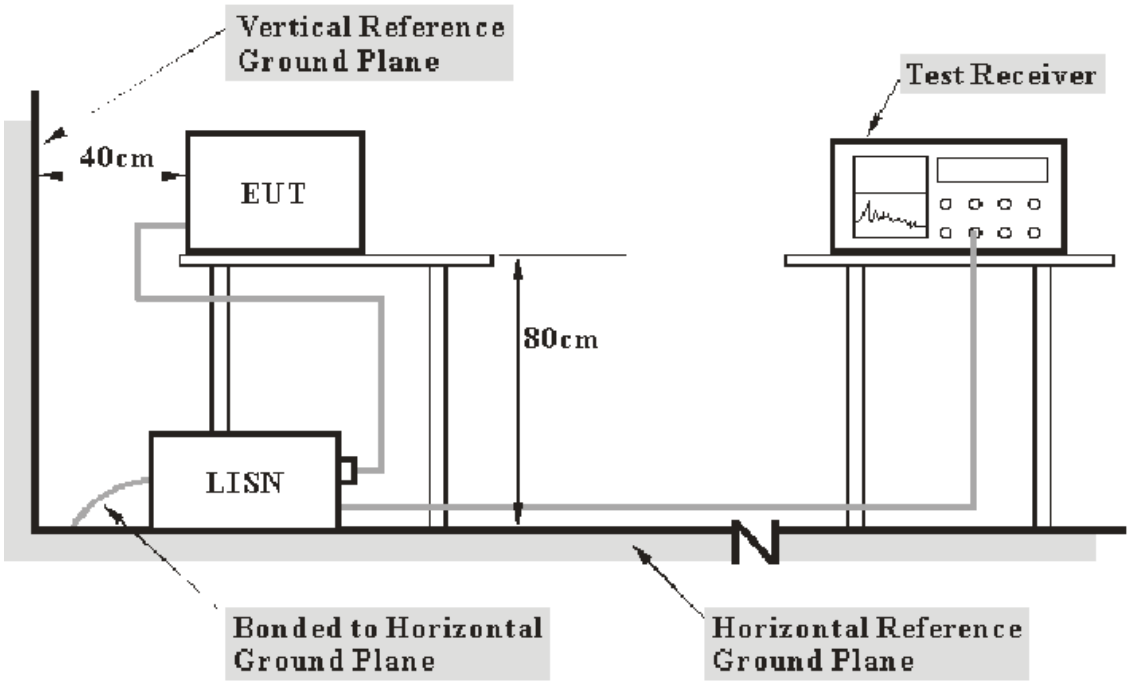
5.1.Block Diagram of Test

5.1.1.Block diagram of connection between the EUT and simulators



(EUT: Massage Chair)

5.1.2.Test System Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

5.2.Power Line Conducted Emission Measurement Limits

Frequency (MHz)	Limit dB(μV)	
	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
NOTE1: The lower limit shall apply at the transition frequencies. NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.		

5.3.Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in test mode and measure it.

5.5.Test Procedure

The EUT is put on the plane 0.1 m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10 on Conducted Emission Measurement.
The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

5.6.Data Sample

Frequency (MHz)	Transducer value (dB)	QuasiPeak Level (dBμV)	Average Level (dBμV)	QuasiPeak Limit (dBμV)	Average Limit (dBμV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
0.644	11.0	36.7	34.0	56.0	46.0	19.3	12.0	Pass

Frequency(MHz) = Emission frequency in MHz
Transducer value(dB) = Insertion loss of LISN + Cable Loss
Level(dBμV) = Quasi-peak Reading/Average Reading + Transducer value
Limit (dBμV) = Limit stated in standard
Margin = Limit (dBμV) - Level (dBμV)

Calculation Formula:

5.7.Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Test mode : BT communicating(AC 120V/60Hz)
EUT mode : EC-622B

MEASUREMENT RESULT: "CM101403_fin"

2017-11-2 9:30

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.340000	30.80	10.9	59	28.4	QP	N	GND
0.642000	37.30	11.0	56	18.7	QP	N	GND
1.670000	32.70	11.2	56	23.3	QP	N	GND
4.935000	28.70	11.4	56	27.3	QP	N	GND
7.025000	24.00	11.5	60	36.0	QP	N	GND
19.205000	11.10	11.7	60	48.9	QP	N	GND

MEASUREMENT RESULT: "CM101403_fin2"

2017-11-2 9:30

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.280000	28.80	10.9	51	22.0	AV	N	GND
0.642000	32.40	11.0	46	13.6	AV	N	GND
1.800000	29.40	11.2	46	16.6	AV	N	GND
4.760000	27.10	11.4	46	18.9	AV	N	GND
5.160000	26.90	11.4	50	23.1	AV	N	GND
13.555000	19.90	11.6	50	30.1	AV	N	GND

MEASUREMENT RESULT: "CM101404_fin"

2017-11-2 9:33

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.338000	30.40	10.9	59	28.9	QP	L1	GND
0.642000	38.20	11.0	56	17.8	QP	L1	GND
1.750000	32.40	11.2	56	23.6	QP	L1	GND
4.810000	21.90	11.4	56	34.1	QP	L1	GND
10.090000	18.00	11.6	60	42.0	QP	L1	GND
12.490000	18.20	11.6	60	41.8	QP	L1	GND

MEASUREMENT RESULT: "CM101404_fin2"

2017-11-2 9:33

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.280000	28.70	10.9	51	22.1	AV	L1	GND
0.646000	34.00	11.0	46	12.0	AV	L1	GND
1.800000	29.50	11.2	46	16.5	AV	L1	GND
4.740000	27.30	11.4	46	18.7	AV	L1	GND
5.160000	28.40	11.4	50	21.6	AV	L1	GND
12.895000	19.30	11.6	50	30.7	AV	L1	GND

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

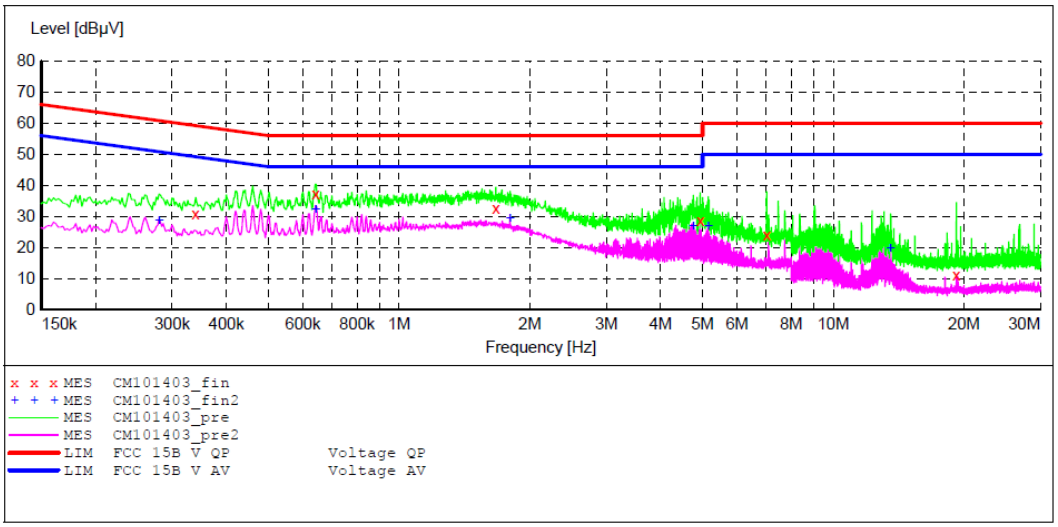
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

```
EUT:                  Massage Chair M/N:EC-622B
Manufacturer:         COMFORT
Operating Condition:  BT communicating
Test Site:            1#Shielding Room
Operator:             DING
Test Specification:   N   120V/60Hz
Comment:              Report NO.:ATE20172033
Start of Test:        2017-11-2 / 9:27:59
```

SCAN TABLE: "V 150K-30MHz fin"

```
  Short Description:            _SUB_STD_VTERM2 1.70
  Start      Stop       Step      Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width               Time      Bandw.
  150.0 kHz  30.0 MHz   4.5 kHz   QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                  Average
```



MEASUREMENT RESULT: "CM101403_fin"

2017-11-2 9:30

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.340000	30.80	10.9	59	28.4	QP	N	GND
0.642000	37.30	11.0	56	18.7	QP	N	GND
1.670000	32.70	11.2	56	23.3	QP	N	GND
4.935000	28.70	11.4	56	27.3	QP	N	GND
7.025000	24.00	11.5	60	36.0	QP	N	GND
19.205000	11.10	11.7	60	48.9	QP	N	GND

MEASUREMENT RESULT: "CM101403_fin2"

2017-11-2 9:30

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.280000	28.80	10.9	51	22.0	AV	N	GND
0.642000	32.40	11.0	46	13.6	AV	N	GND
1.800000	29.40	11.2	46	16.6	AV	N	GND
4.760000	27.10	11.4	46	18.9	AV	N	GND
5.160000	26.90	11.4	50	23.1	AV	N	GND
13.555000	19.90	11.6	50	30.1	AV	N	GND

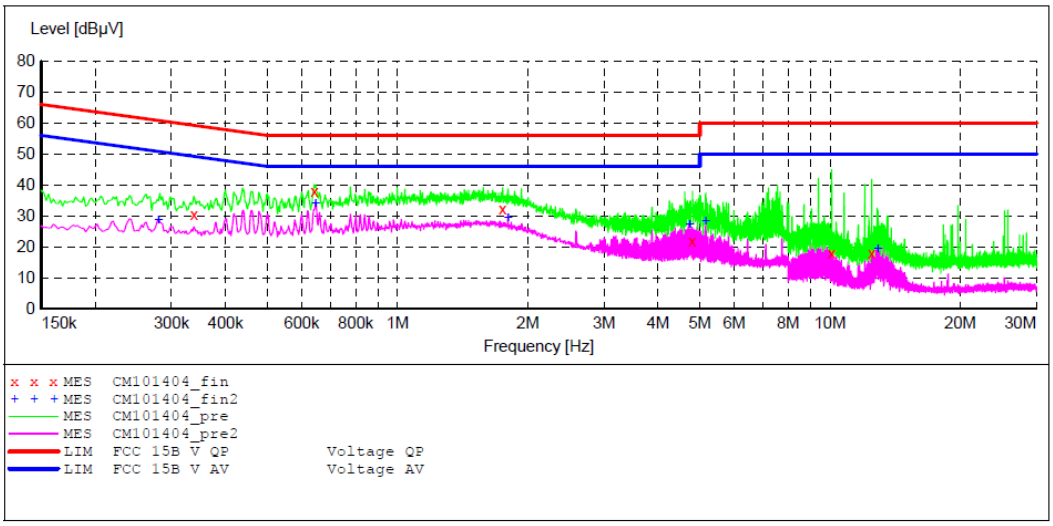
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

```
EUT:                  Massage Chair M/N:EC-622B
Manufacturer:         COMFORT
Operating Condition:  BT communicating
Test Site:            1#Shielding Room
Operator:             DING
Test Specification:   L   120V/60Hz
Comment:              Report NO.:ATE20172033
Start of Test:        2017-11-2 / 9:31:02
```

SCAN TABLE: "V 150K-30MHz fin"

```
  Short Description:              _SUB_STD_VTERM2 1.70
  Start      Stop       Step      Detector  Meas.     IF      Transducer
  Frequency  Frequency  Width               Time      Bandw.
  150.0 kHz  30.0 MHz   4.5 kHz   QuasiPeak 1.0 s     9 kHz   NSLK8126 2008
                                  Average
```



MEASUREMENT RESULT: "CM101404_fin"

2017-11-2 9:33

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.338000	30.40	10.9	59	28.9	QP	L1	GND
0.642000	38.20	11.0	56	17.8	QP	L1	GND
1.750000	32.40	11.2	56	23.6	QP	L1	GND
4.810000	21.90	11.4	56	34.1	QP	L1	GND
10.090000	18.00	11.6	60	42.0	QP	L1	GND
12.490000	18.20	11.6	60	41.8	QP	L1	GND

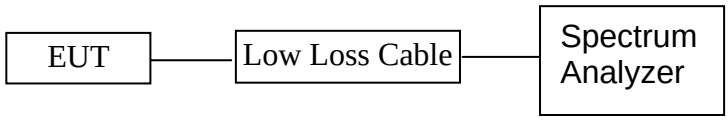
MEASUREMENT RESULT: "CM101404_fin2"

2017-11-2 9:33

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.280000	28.70	10.9	51	22.1	AV	L1	GND
0.646000	34.00	11.0	46	12.0	AV	L1	GND
1.800000	29.50	11.2	46	16.5	AV	L1	GND
4.740000	27.30	11.4	46	18.7	AV	L1	GND
5.160000	28.40	11.4	50	21.6	AV	L1	GND
12.895000	19.30	11.6	50	30.7	AV	L1	GND

6. 6DB BANDWIDTH MEASUREMENT

6.1.Block Diagram of Test Setup



(EUT: Massage Chair)

6.2.The Requirement For Section 15.247(a)(2)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.3.EUT Configuration on Measurement

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.4.Operating Condition of EUT

6.4.1.Setup the EUT and simulator as shown as Section 6.1.

6.4.2.Turn on the power of all equipment.

6.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

6.5.Test Procedure

6.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to300 kHz.

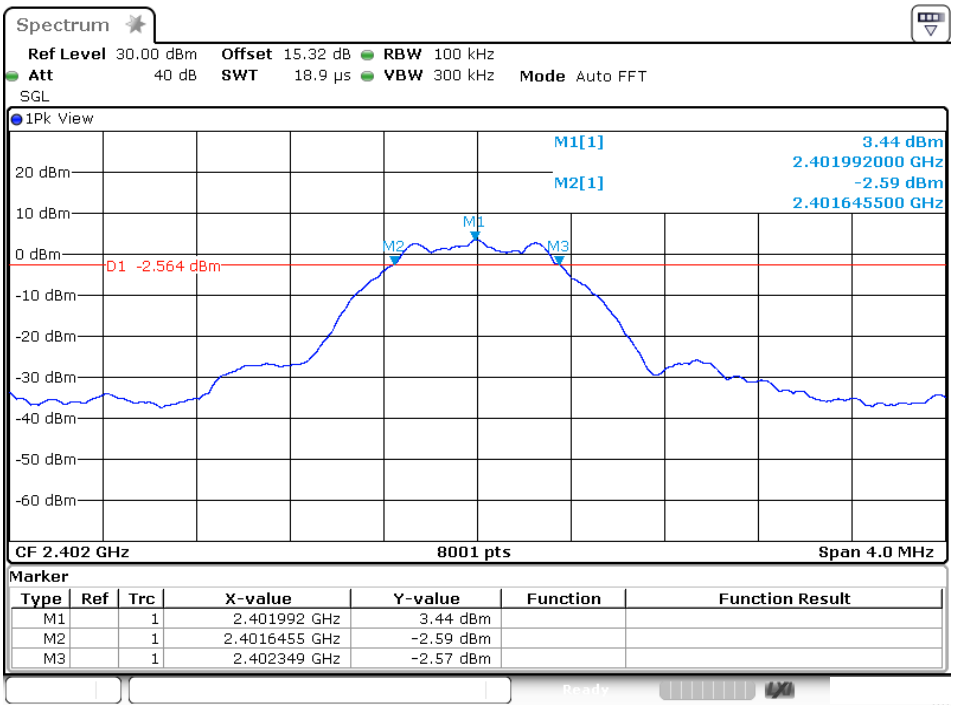
6.5.3.The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

6.6.Test Result

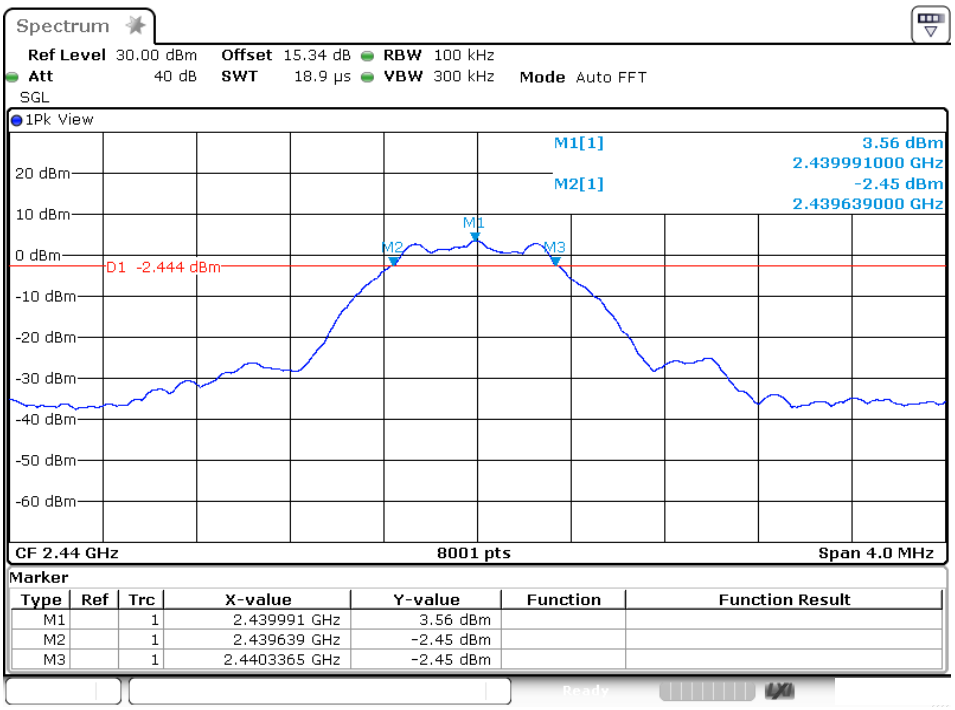
Channel	Frequency (MHz)	6 dB Bandwith (MHz)	Minimum Limit(MHz)	PASS/FAIL
0	2402	0.704	0.5	PASS
19	2440	0.697	0.5	PASS
39	2480	0.686	0.5	PASS

The spectrum analyzer plots are attached as below.

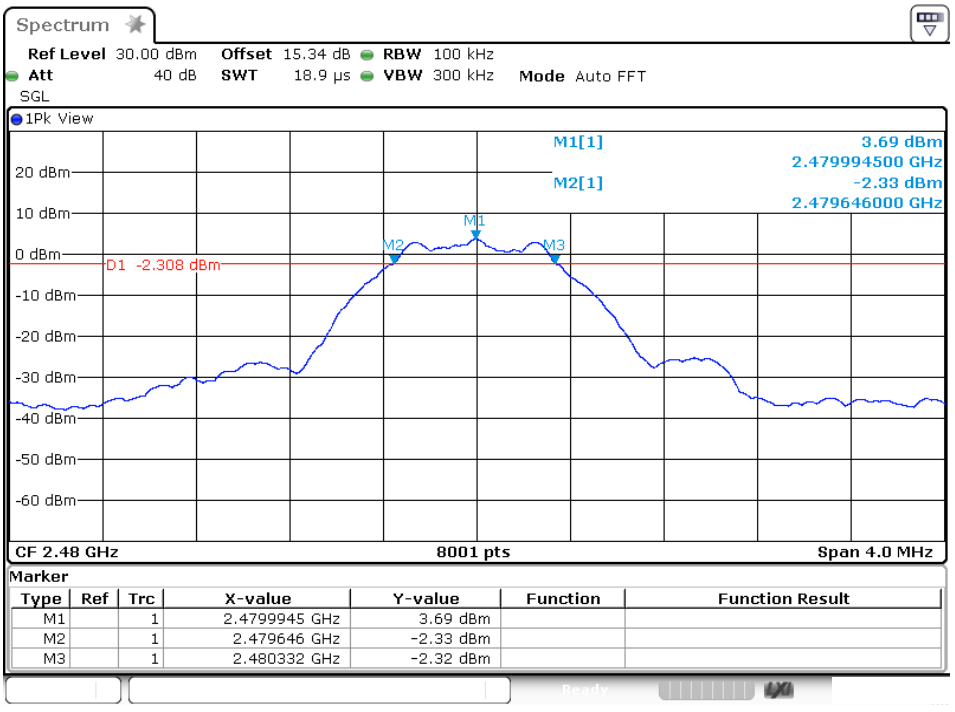
channel 0



channel 19

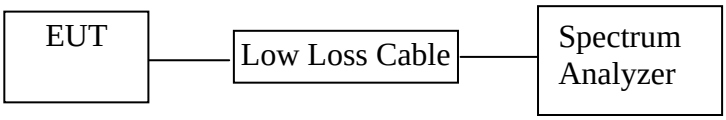

Spectrum
Ref Level 30.00 dBm Offset 15.34 dB RBW 100 kHz
Att 40 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT
SGL
1Pk View
M1[1] 3.56 dBm
2.439991000 GHz
M2[1] -2.45 dBm
2.439639000 GHz
D1 -2.444 dBm
CF 2.44 GHz 8001 pts Span 4.0 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 2.439991 GHz 3.56 dBm
M2 1 2.439639 GHz -2.45 dBm
M3 1 2.4403365 GHz -2.45 dBm

channel 39


Spectrum
Ref Level 30.00 dBm Offset 15.34 dB RBW 100 kHz
Att 40 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT
SGL
1Pk View
M1[1] 3.69 dBm
2.479994500 GHz
M2[1] -2.33 dBm
2.479646000 GHz
D1 -2.308 dBm
CF 2.48 GHz 8001 pts Span 4.0 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 2.4799945 GHz 3.69 dBm
M2 1 2.479646 GHz -2.33 dBm
M3 1 2.480332 GHz -2.32 dBm

7. MAXIMUM PEAK OUTPUT POWER

7.1.Block Diagram of Test Setup



(EUT: Massage Chair)

7.2.The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

7.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4.Operating Condition of EUT

7.4.1.Setup the EUT and simulator as shown as Section 7.1.

7.4.2.Turn on the power of all equipment.

7.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

7.5.Test Procedure

7.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2.Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz.

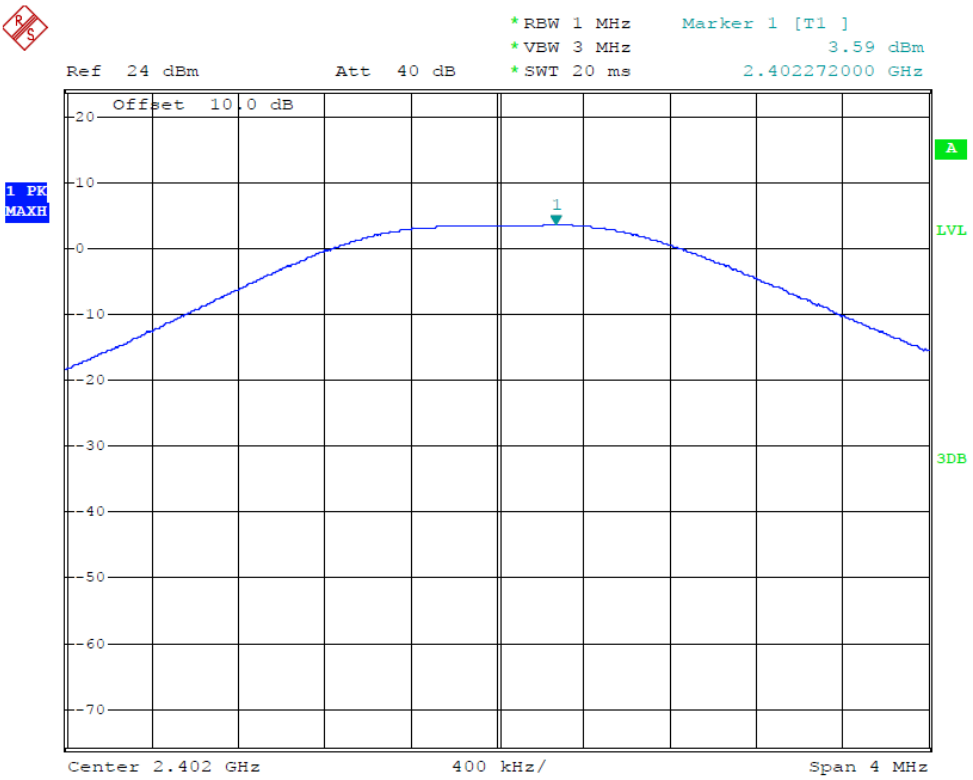
7.5.3.Measurement the maximum peak output power.

7.6.Test Result

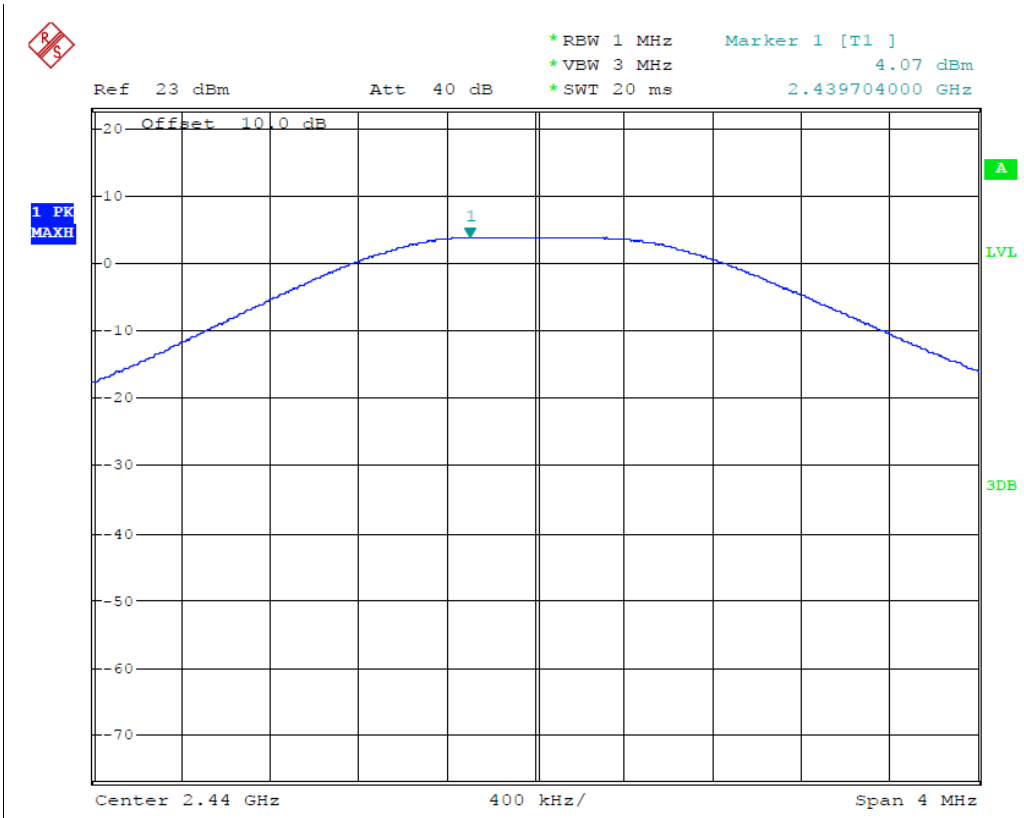
Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass / Fail
0	2402	3.59	30	PASS
19	2440	4.07	30	PASS
39	2480	4.08	30	PASS

The spectrum analyzer plots are attached as below.

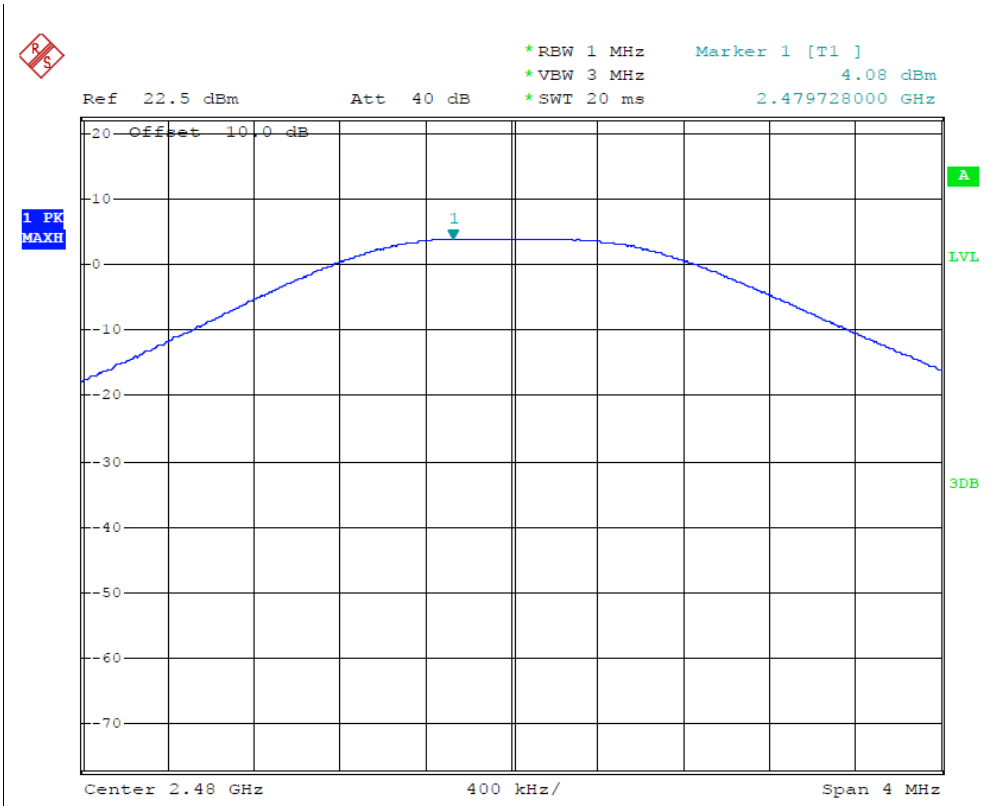
channel 0



channel 19

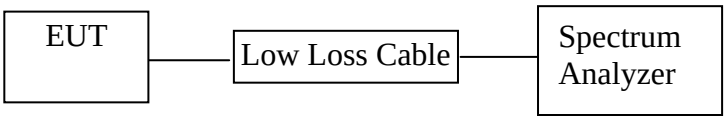


channel 39



8. POWER SPECTRAL DENSITY MEASUREMENT

8.1.Block Diagram of Test Setup



(EUT: Massage Chair)

8.2.The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

8.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.4.Operating Condition of EUT

8.4.1.Setup the EUT and simulator as shown as Section 8.1.

8.4.2.Turn on the power of all equipment.

8.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

8.5.Test Procedure

8.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

8.5.2.Measurement Procedure PKPSD:

8.5.3.This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW to: 3 kHz $\leqslant$ RBW $\leqslant$ 100 kHz.
4. Set the VBW $\geqslant$ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

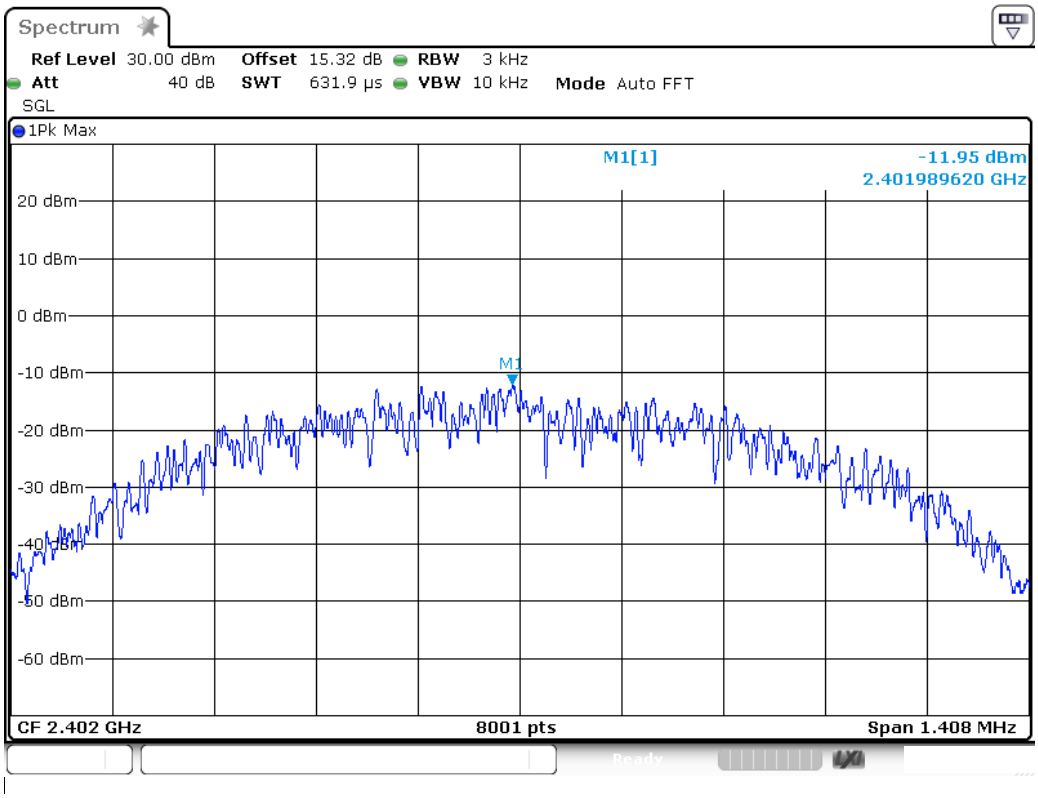
8.5.4.Measurement the maximum power spectral density.

8.6.Test Result

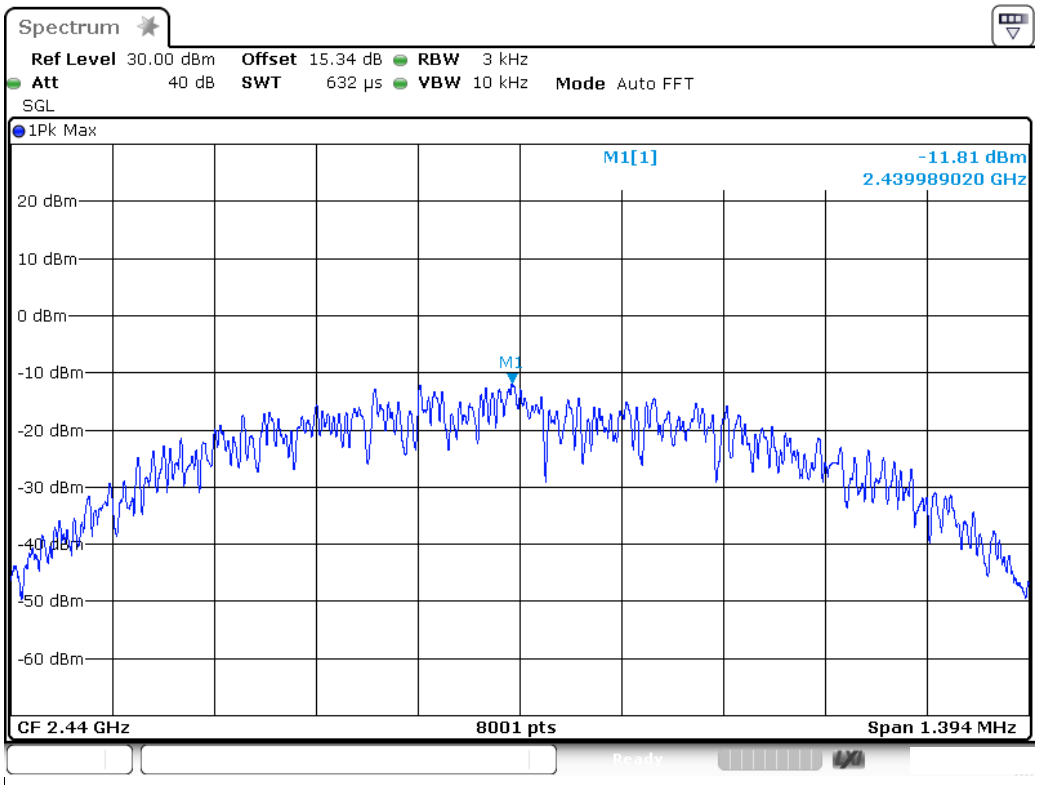
CHANNEL NUMBER	FREQUENCY (MHz)	PSD (dBm/3KHz)	LIMIT (dBm/3KHz)	PASS/FAIL
0	2402	-11.95	8	PASS
19	2440	-11.81	8	PASS
39	2480	-11.70	8	PASS

The spectrum analyzer plots are attached as below.

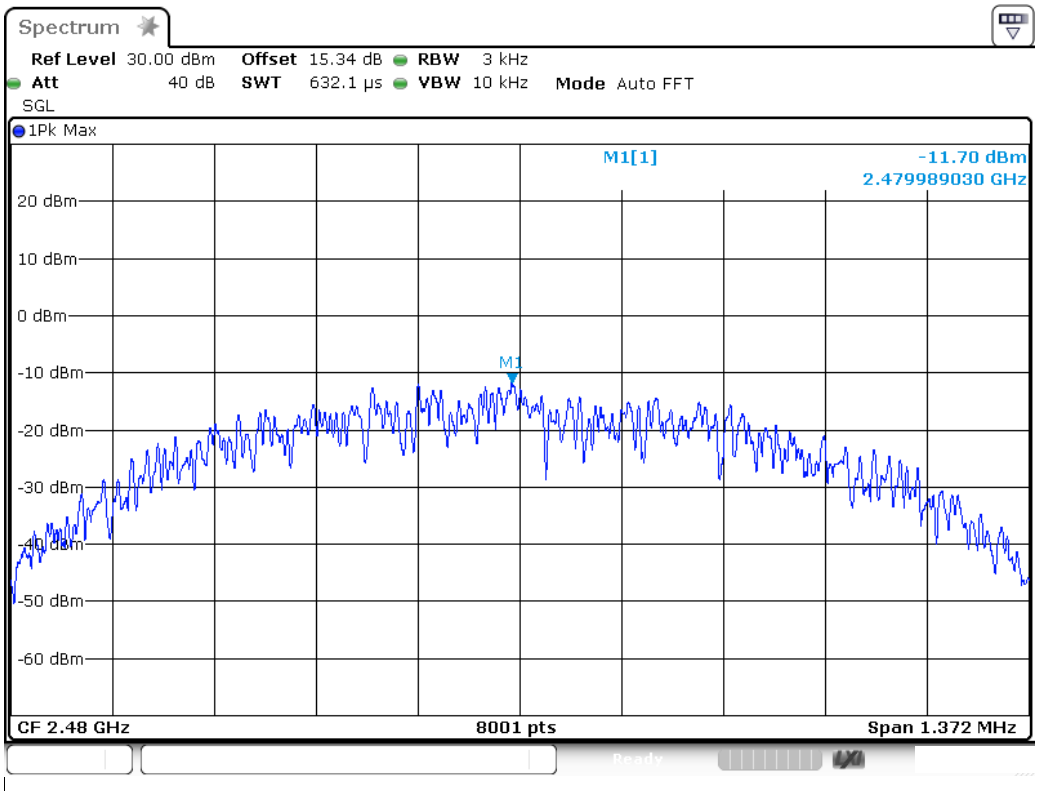
channel 0



channel 19

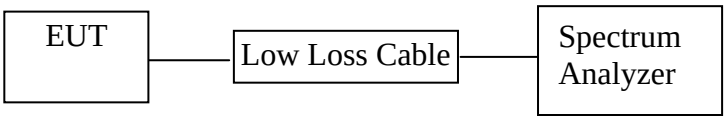


channel 39



9. BAND EDGE COMPLIANCE TEST

9.1.Block Diagram of Test Setup



(EUT: Massage Chair)

9.2.The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

9.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.4.Operating Condition of EUT

9.4.1.Setup the EUT and simulator as shown as Section 9.1.

9.4.2.Turn on the power of all equipment.

9.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

9.5.Test Procedure

Conducted Band Edge:

9.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

9.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

9.5.3. Radiate Band Edge:

9.5.4.The EUT is placed on a turntable, which is 0.1m above the ground plane and worked at highest radiated power.

9.5.5.The turntable was rotated for 360 degrees to determine the position of maximum emission level.

9.5.6.EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

9.5.7.Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

9.5.8.RBW=100kHz, VBW=300kHz

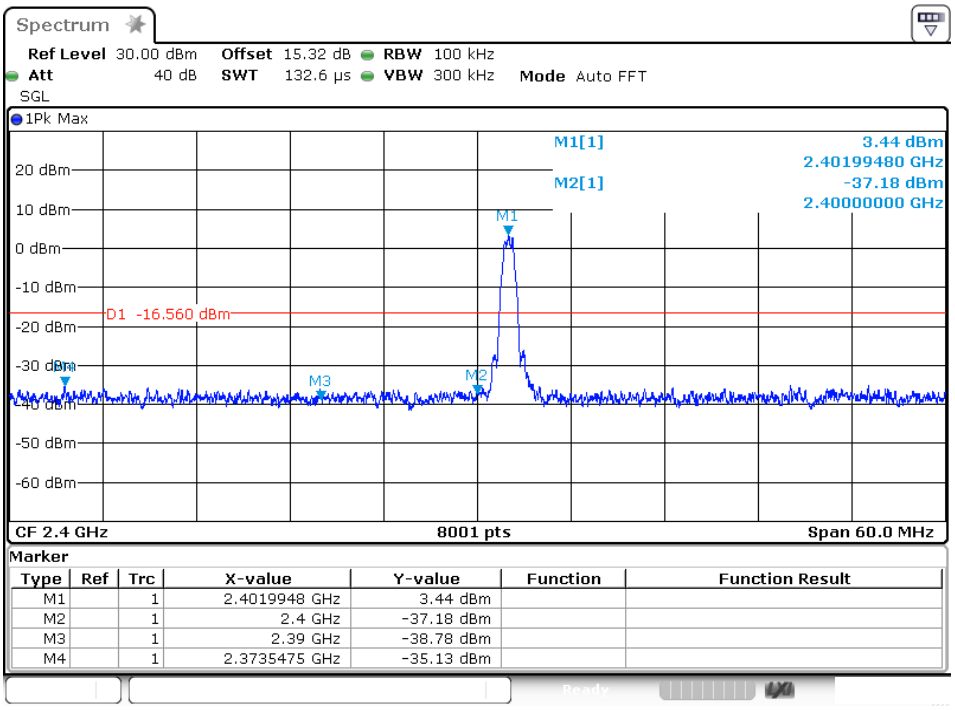
9.5.9.The band edges was measured and recorded.

9.6.Test Result

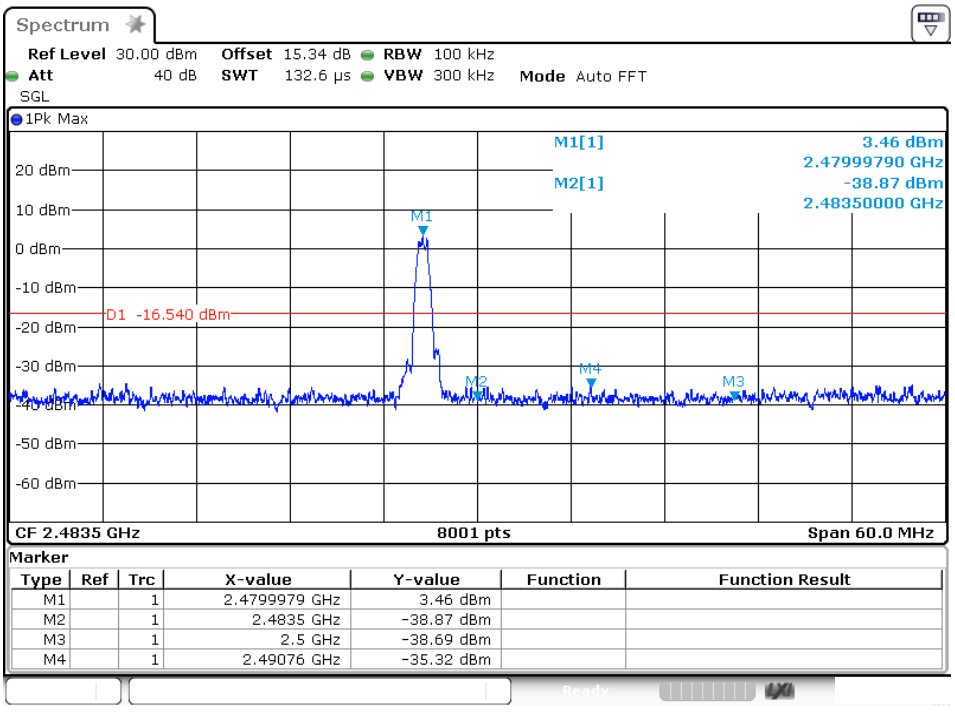
Pass

Channel	Frequency	Delta peak to band emission	Limit(dBc)
0	2.4GHz	33.74	20
39	2.4835GHz	35.41	20

channel 0



channel 39



Radiated Band Edge Result

Date of Test:	November 2, 2017	Temperature:	25°C
EUT:	Massage Chair	Humidity:	50%
Model No.:	EC-622B	Power Supply:	AC 120V/60Hz
Test Mode:	TX (2402MHz) GFSK	Test Engineer:	Ding

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2390.000	30.46	39.87	-5.89	24.57	33.98	54.00	74.00	-29.43	-40.02	Vertical
2400.000	56.01	66.62	-5.80	50.21	60.82	54.00	74.00	-3.79	-13.18	Vertical
2390.000	30.93	40.93	-5.89	25.04	35.04	54.00	74.00	-28.96	-38.96	Horizontal
2400.000	52.87	62.97	-5.80	47.07	57.17	54.00	74.00	-6.93	-16.83	Horizontal

Date of Test:	November 2, 2017	Temperature:	25°C
EUT:	Massage Chair	Humidity:	50%
Model No.:	EC-622B	Power Supply:	AC 120V/60Hz
Test Mode:	TX (2480MHz) GFSK	Test Engineer:	Ding

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	45.91	55.73	-5.51	40.40	50.22	54.00	74.00	-13.60	-23.78	Vertical
2500.000	45.91	55.73	-5.50	26.53	35.98	54.00	74.00	-27.47	-38.02	Vertical
2483.500	44.15	53.42	-5.51	38.64	47.91	54.00	74.00	-15.36	-26.09	Horizontal
2500.000	31.22	40.35	-5.50	25.72	34.85	54.00	74.00	-28.28	-39.15	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
   Result = Reading + Corrected Factor
3. Display the measurement of peak values.

ACCURATE TECHNOLOGY CO., LTD.
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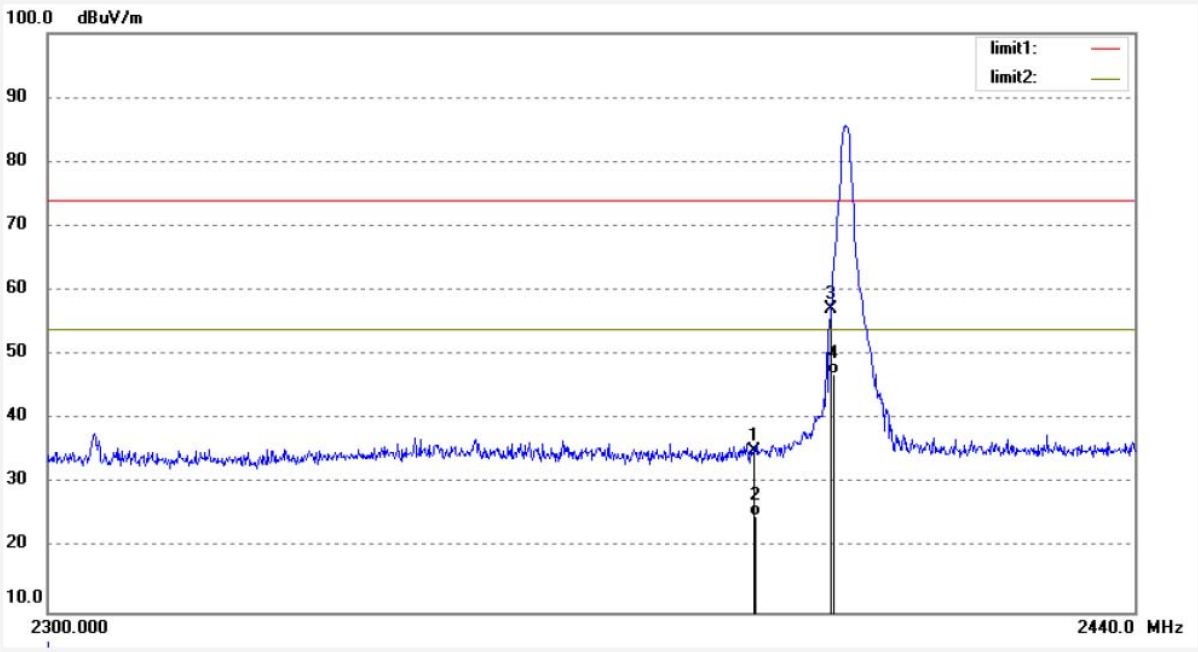
Fax:+86-0755-26503396

Job No.: DING11 #1864
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Massage Chair
Mode: TX 2402MHz
Model: EC-622B
Manufacturer: COMFORT

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 17/11/2/
Time: 13/42/04
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20172033



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	40.93	-5.89	35.04	74.00	-38.96	peak	300	174	
2	2390.000	30.93	-5.89	25.04	54.00	-28.96	AVG	300	174	
3	2400.000	62.97	-5.80	57.17	74.00	-16.83	peak	300	109	
4	2400.000	52.87	-5.80	47.07	54.00	-6.93	AVG	300	109	

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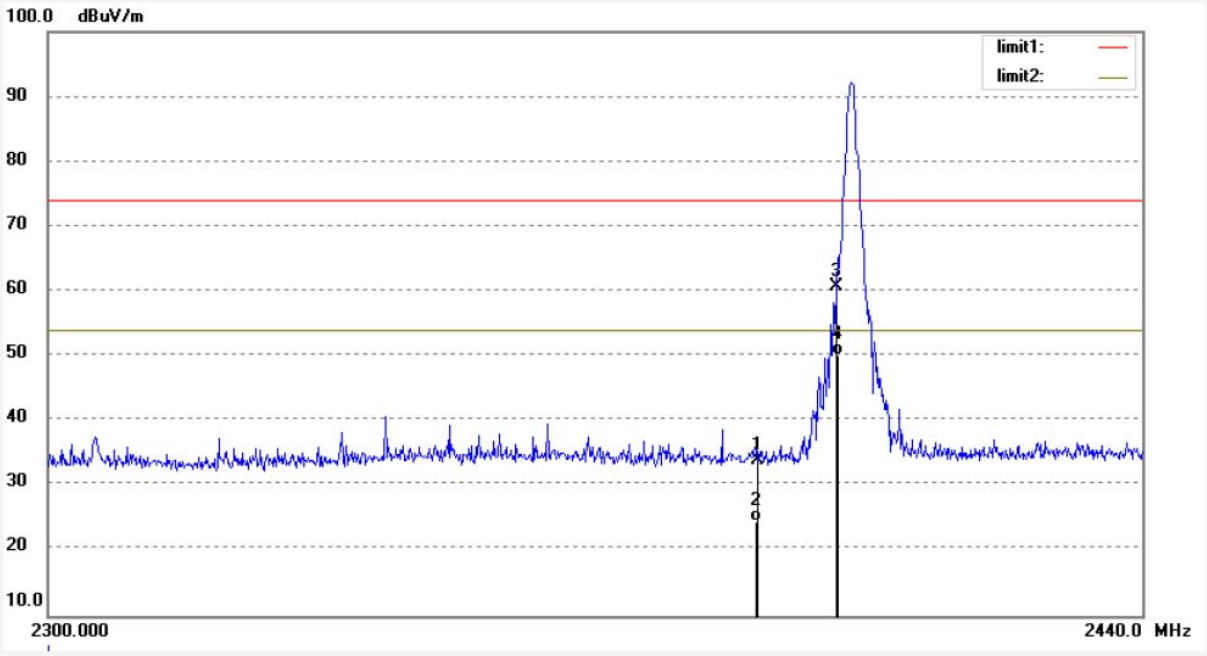
Fax:+86-0755-26503396

Job No.: DING11 #1863
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Massage Chair
Mode: TX 2402MHz
Model: EC-622B
Manufacturer: COMFORT

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 17/11/2/
Time: 13/39/33
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20172033



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	39.87	-5.89	33.98	74.00	-40.02	peak	300	94	
2	2390.000	30.46	-5.89	24.57	54.00	-29.43	AVG	300	94	
3	2400.000	66.62	-5.80	60.82	74.00	-13.18	peak	300	225	
4	2400.000	56.01	-5.80	50.21	54.00	-3.79	AVG	300	225	

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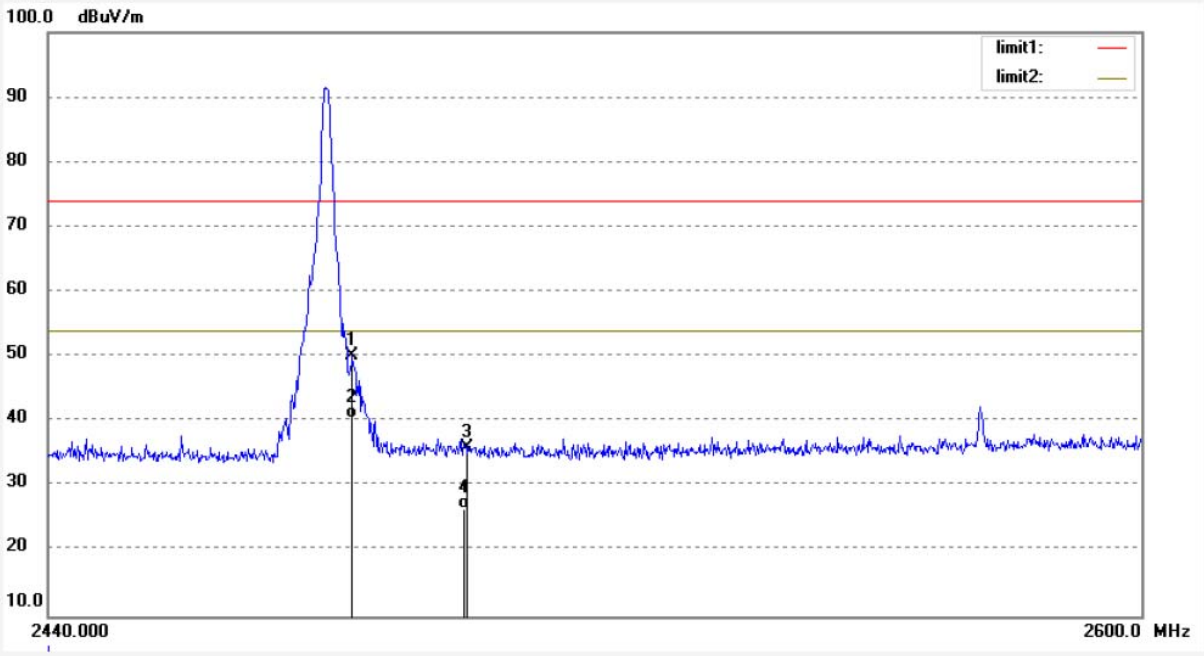
Fax:+86-0755-26503396

Job No.: DING11 #1862	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/11/2/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 13/36/27
EUT: Massage Chair	Engineer Signature: DING
Mode: TX 2480MHz	Distance: 3m
Model: EC-622B	
Manufacturer: COMFORT	

Note: Report NO.:ATE20172033



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	55.73	-5.51	50.22	74.00	-23.78	peak	300	243	
2	2483.500	45.91	-5.51	40.40	54.00	-13.60	AVG	300	243	
3	2500.000	41.48	-5.50	35.98	74.00	-38.02	peak	300	64	
4	2500.000	32.03	-5.50	26.53	54.00	-27.47	AVG	300	64	

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Site: 1# Chamber
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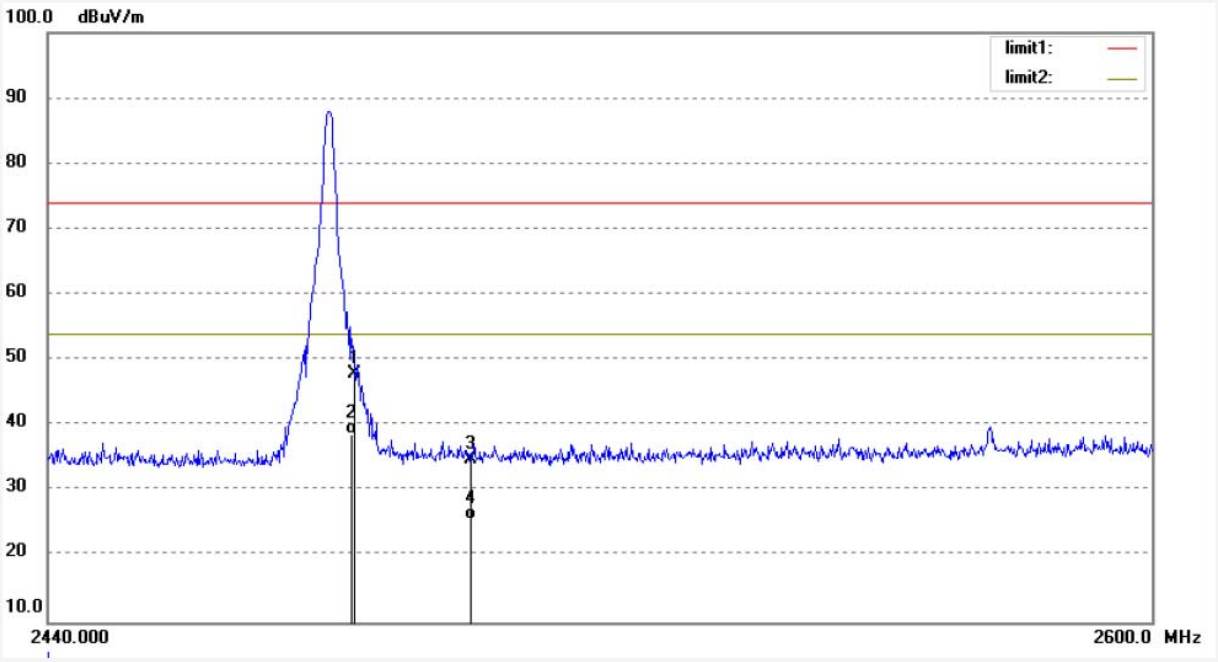
Fax:+86-0755-26503396

Job No.: DING1 1#1861	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/11/2/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 13/33/55
EUT: Massage Chair	Engineer Signature: DING
Mode: TX 2480MHz	Distance: 3m
Model: EC-622B	
Manufacturer: COMFORT	

Note: Report NO.:ATE20172033



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	53.42	-5.51	47.91	74.00	-26.09	peak	300	192	
2	2483.500	44.15	-5.51	38.64	54.00	-15.36	AVG	300	192	
3	2500.000	40.35	-5.50	34.85	74.00	-39.15	peak	300	139	
4	2500.000	31.22	-5.50	25.72	54.00	-28.28	AVG	300	139	

Note:

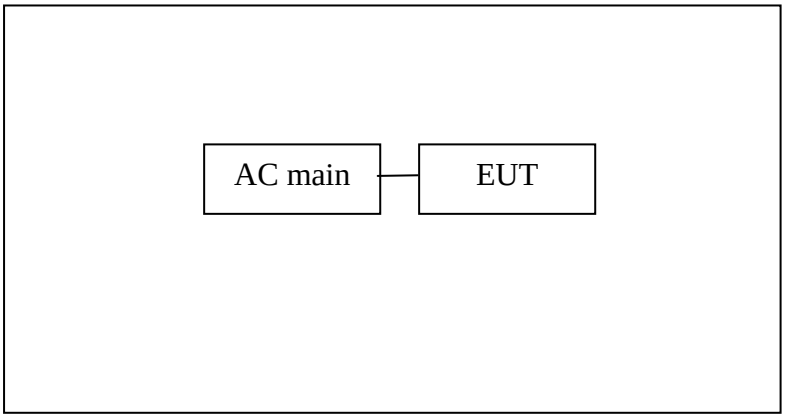
1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor
3. Display the measurement of peak values.

10.RADIATED SPURIOUS EMISSION TEST

10.1.Block Diagram of Test Setup

10.1.1.Block diagram of connection between the EUT and peripherals

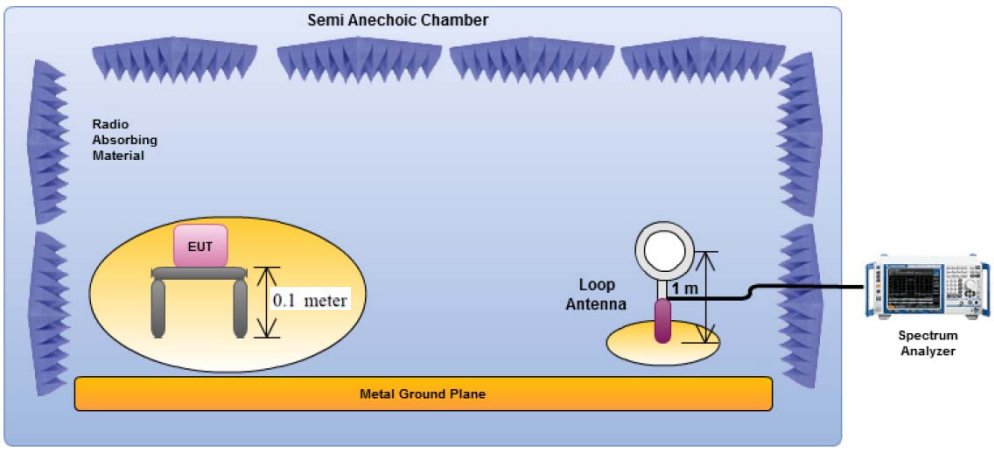


Setup: Transmitting mode

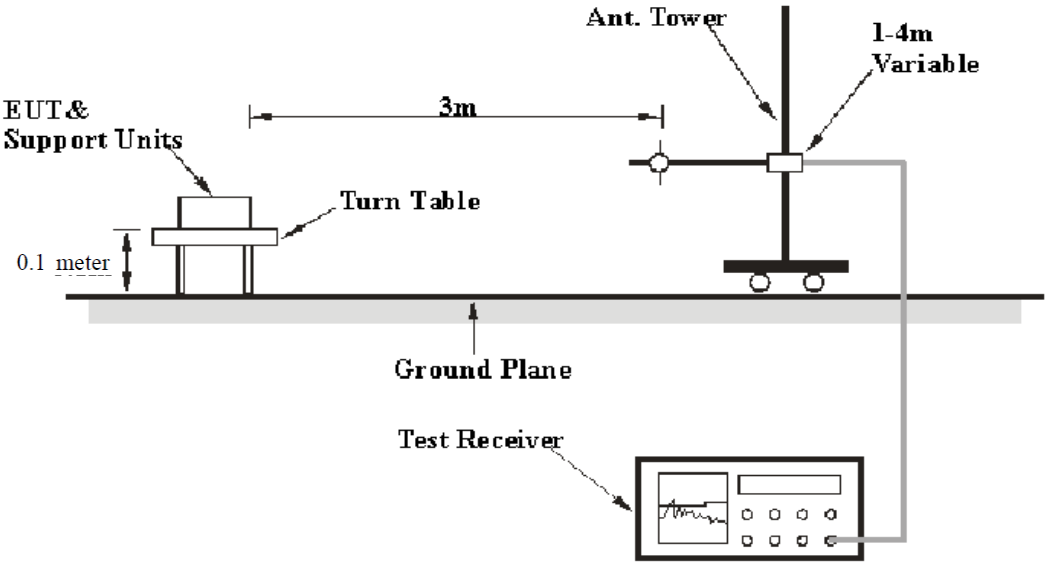
(EUT: Massage Chair)

10.1.2.Semi-Anechoic Chamber Test Setup Diagram

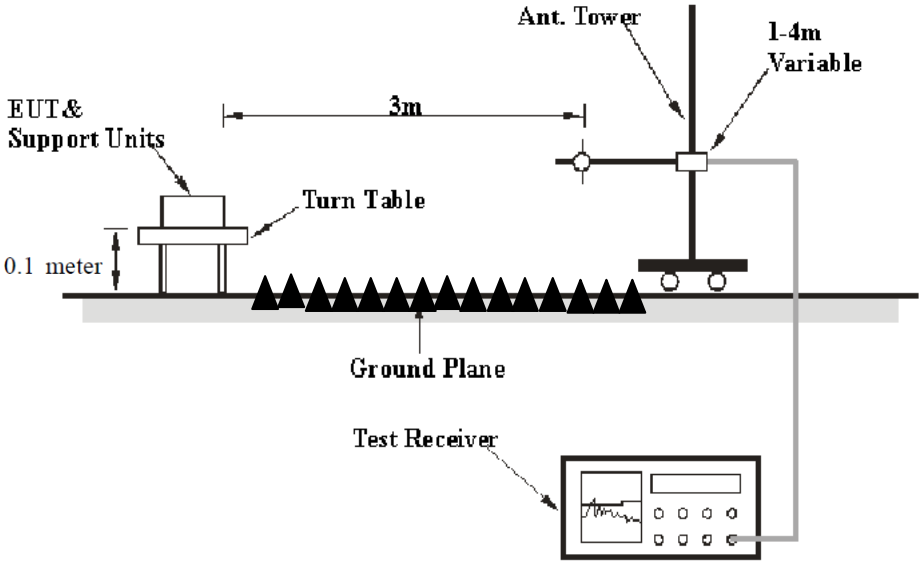
Below 30MHz



Below 1GHz:



Above 1GHz:



10.2.The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging

over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

10.3.Restricted bands of operation

10.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1]0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	([2])
13.36-13.41			

[1]Until February 1, 1999, this restricted band shall be 0.490-0.510
[2]Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

10.4.Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.5.Operating Condition of EUT

10.5.1.Setup the EUT and simulator as shown as Section 10.1.

10.5.2.Turn on the power of all equipment.

10.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

10.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.1 meter high above ground(Below 1GHz). The EUT and its simulators are placed on a turntable, which is 0.1 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 9 kHz in below 30MHz. and set at 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9 kHz to 25GHz is checked.
The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

10.7.Data Sample

Frequency (MHz)	Reading (dBμv)	Factor (dB/m)	Result (dBμv/m)	Limit (dBμv/m)	Margin (dB)	Remark
40.8444	42.80	-11.72	31.08	40.00	-8.92	QP

Frequency(MHz) = Emission frequency in MHz
Reading(dBμv) = Uncorrected Analyzer/Receiver reading
Factor (dB/m) = Antenna factor + Cable Loss – Amplifier gain
Result(dBμv/m) = Reading(dBμv) + Factor(dB/m)
Limit (dBμv/m) = Limit stated in standard
Margin (dB) = Result(dBμv/m) - Limit (dBμv/m)
QP = Quasi-peak Reading

Calculation Formula:
Margin(dB) = Result (dBμV/m)–Limit(dBμV/m)
Result(dBμV/m)= Reading(dBμV)+ Factor(dB/m)
The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit.

10.8.The Field Strength of Radiation Emission Measurement Results

PASS.

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. *: Denotes restricted band of operation.

3. The radiation emissions from 18-25GHz are not reported, because the test values lower than the limits of 20dB.

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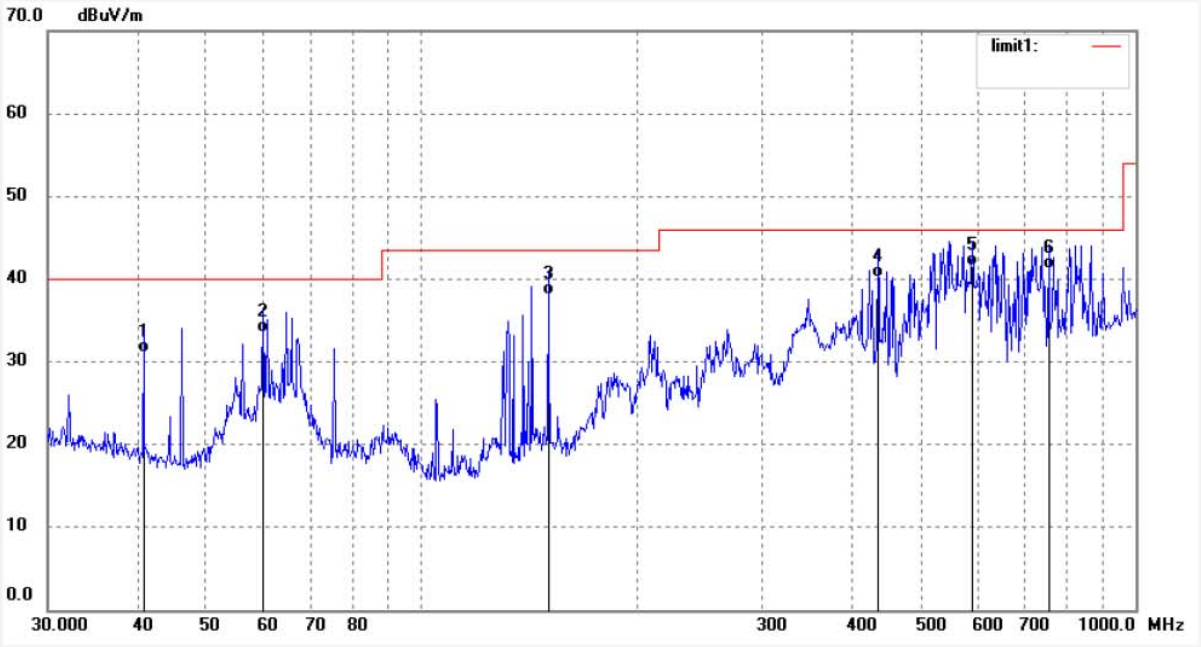
Job No.: JC #187
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Massge Chair
Mode: TX 2402MHz
Model: EC-622B
Manufacturer: COMFORT

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2017-11-2
Time: 15:01:13
Engineer Signature: star
Distance: 3m

Note: Report NO.:ATE20172033



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	40.8444	42.80	-11.72	31.08	40.00	-8.92	QP	100	134	
2	60.0690	47.51	-13.94	33.57	40.00	-6.43	QP	100	126	
3	150.5378	53.11	-15.03	38.08	43.50	-5.42	QP	100	243	
4	435.5898	45.74	-5.51	40.23	46.00	-5.77	QP	100	46	
5	590.9737	44.02	-2.46	41.56	46.00	-4.44	QP	100	111	
6	755.3872	41.35	-0.21	41.14	46.00	-4.86	QP	100	123	

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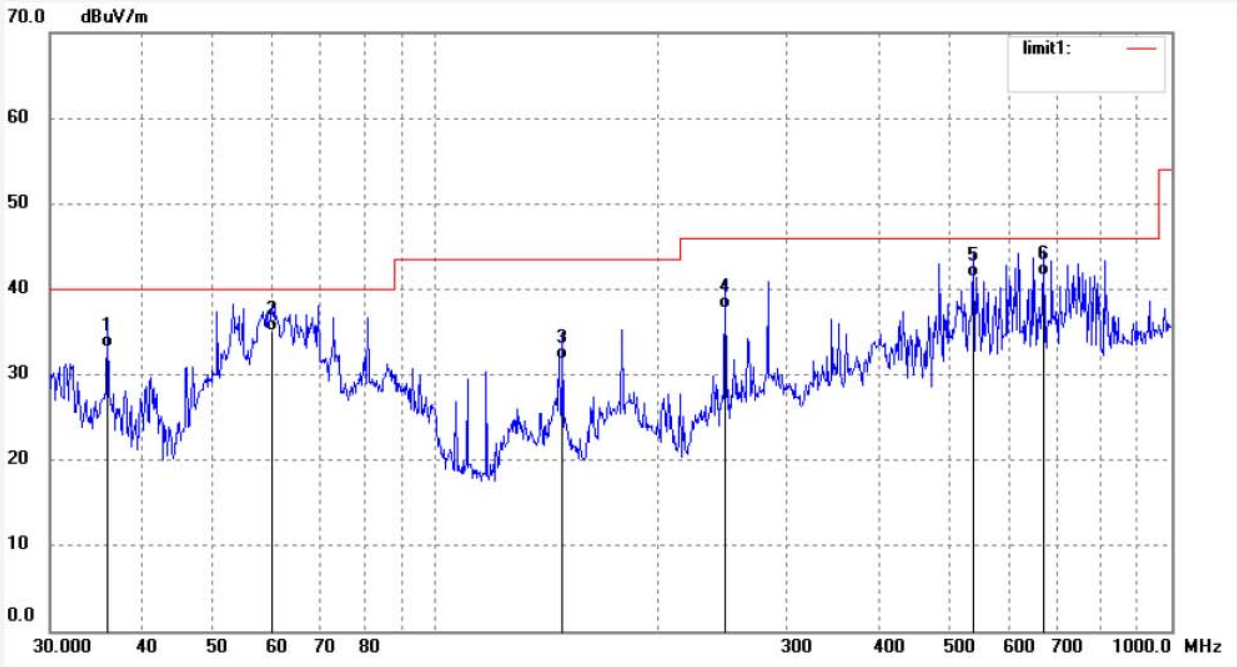
Job No.: JC #188
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Massge Chair
Mode: TX 2402MHz
Model: EC-622B
Manufacturer: COMFORT

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2017-11-2
Time: 15:02:07
Engineer Signature: star
Distance: 3m

Note: Report NO.:ATE20172033



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.8746	43.81	-10.61	33.20	40.00	-6.80	QP	100	116	
2	60.0690	49.08	-13.94	35.14	40.00	-4.86	QP	100	124	
3	148.9625	46.90	-15.05	31.85	43.50	-11.65	QP	100	146	
4	247.6819	48.24	-10.57	37.67	46.00	-8.33	QP	100	333	
5	537.5891	44.71	-3.38	41.33	46.00	-4.67	QP	100	248	
6	670.4892	42.96	-1.47	41.49	46.00	-4.51	QP	100	339	

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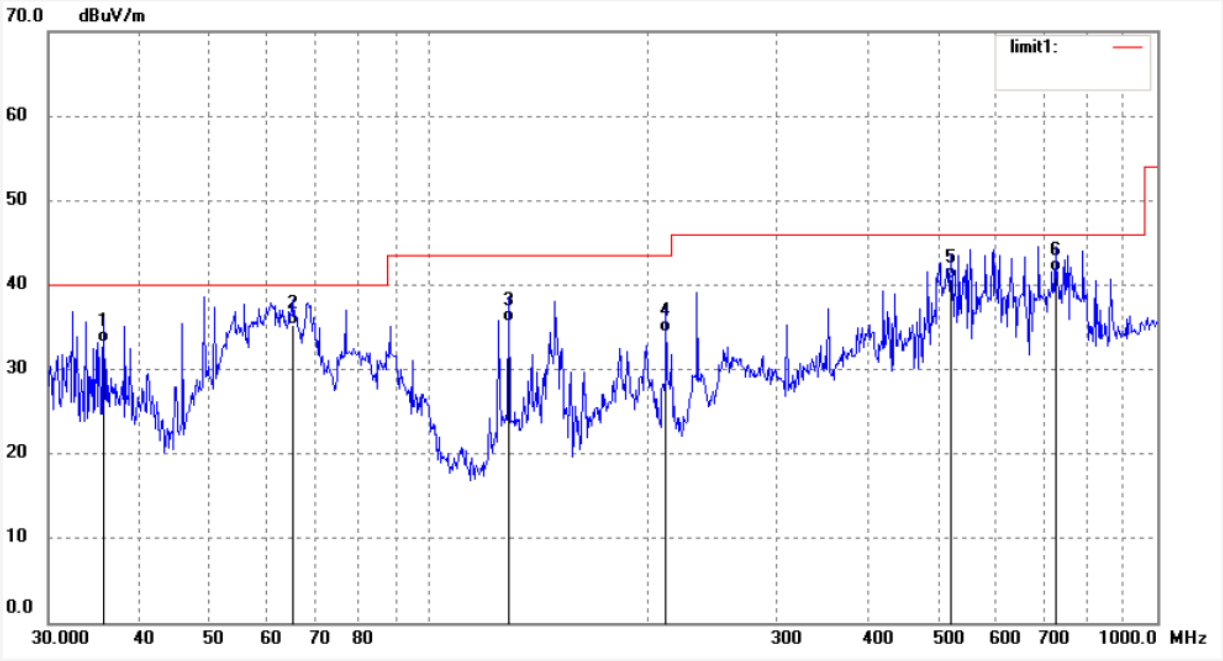
Job No.: JC #189
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Massge Chair
Mode: TX 2440MHz
Model: EC-622B
Manufacturer: COMFORT

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2017-11-2
Time: 15:03:01
Engineer Signature: star
Distance: 3m

Note: Report NO.:ATE20172033



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.7490	43.71	-10.58	33.13	40.00	-6.87	QP	100	341	
2	64.8864	50.89	-15.65	35.24	40.00	-4.76	QP	100	87	
3	128.5629	49.25	-13.72	35.53	43.50	-7.97	QP	100	24	
4	211.5264	46.30	-11.90	34.40	43.50	-9.10	QP	100	216	
5	520.8881	44.52	-3.80	40.72	46.00	-5.28	QP	100	310	
6	724.2611	42.21	-0.70	41.51	46.00	-4.49	QP	100	348	

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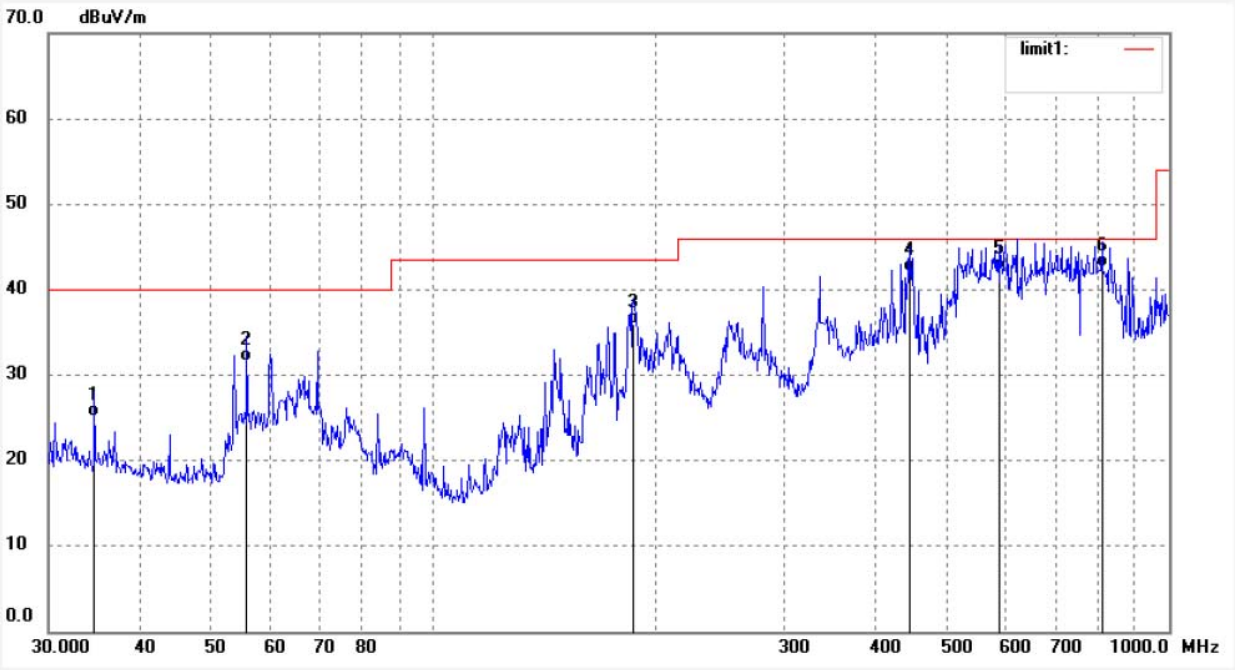
Job No.: JC #190
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Massge Chair
Mode: TX 2440MHz
Model: EC-622B
Manufacturer: COMFORT

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2017-11-2
Time: 15:03:55
Engineer Signature: star
Distance: 3m

Note: Report NO.:ATE20172033



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.6385	35.56	-10.39	25.17	40.00	-14.83	QP	100	248	
2	55.8046	44.73	-13.10	31.63	40.00	-8.37	QP	100	14	
3	187.0956	48.48	-12.53	35.95	43.50	-7.55	QP	100	36	
4	443.2943	47.55	-5.44	42.11	46.00	-3.89	QP	100	125	
5	588.9050	44.72	-2.48	42.24	46.00	-3.76	QP	100	302	
6	810.2653	41.67	0.99	42.66	46.00	-3.34	QP	100	314	

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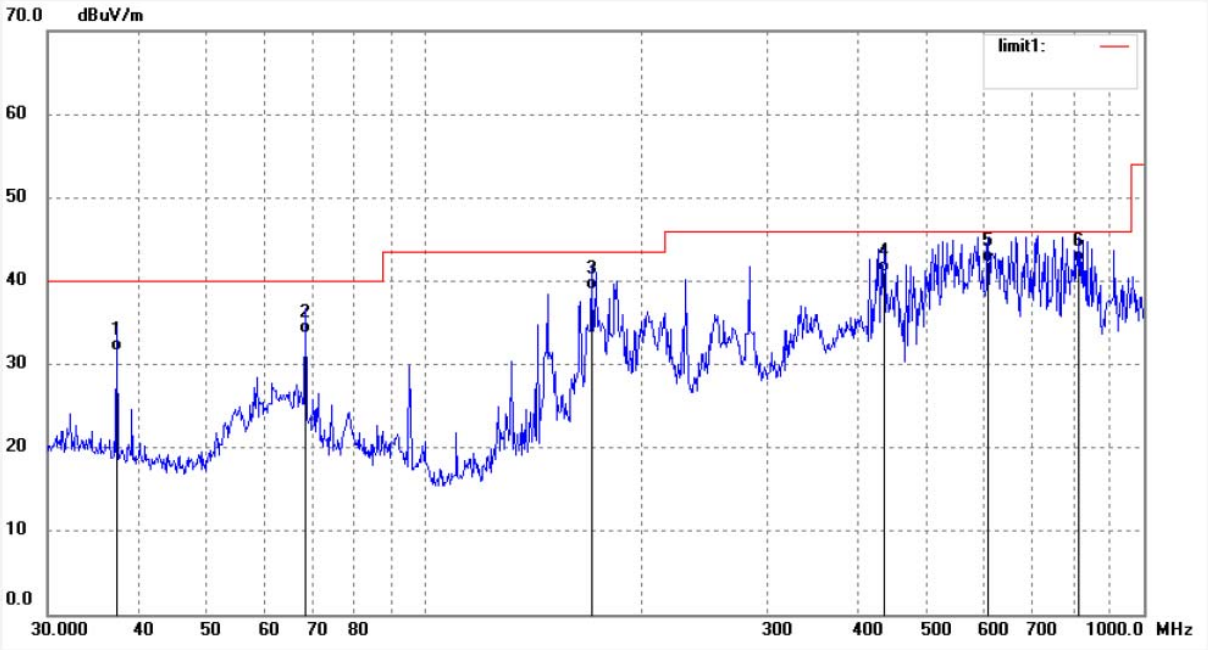
Job No.: JC #191
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Massge Chair
Mode: TX 2480MHz
Model: EC-622B
Manufacturer: COMFORT

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2017-11-2
Time: 15:04:46
Engineer Signature: star
Distance: 3m

Note: Report NO.:ATE20172033



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	37.4164	42.51	-10.95	31.56	40.00	-8.44	QP	100	101	
2	68.3907	49.70	-15.95	33.75	40.00	-6.25	QP	100	123	
3	170.7925	52.39	-13.53	38.86	43.50	-4.64	QP	100	124	
4	435.5898	46.54	-5.51	41.03	46.00	-4.97	QP	100	222	
5	607.7866	44.52	-2.24	42.28	46.00	-3.72	QP	100	264	
6	813.1115	41.20	1.04	42.24	46.00	-3.76	QP	100	331	

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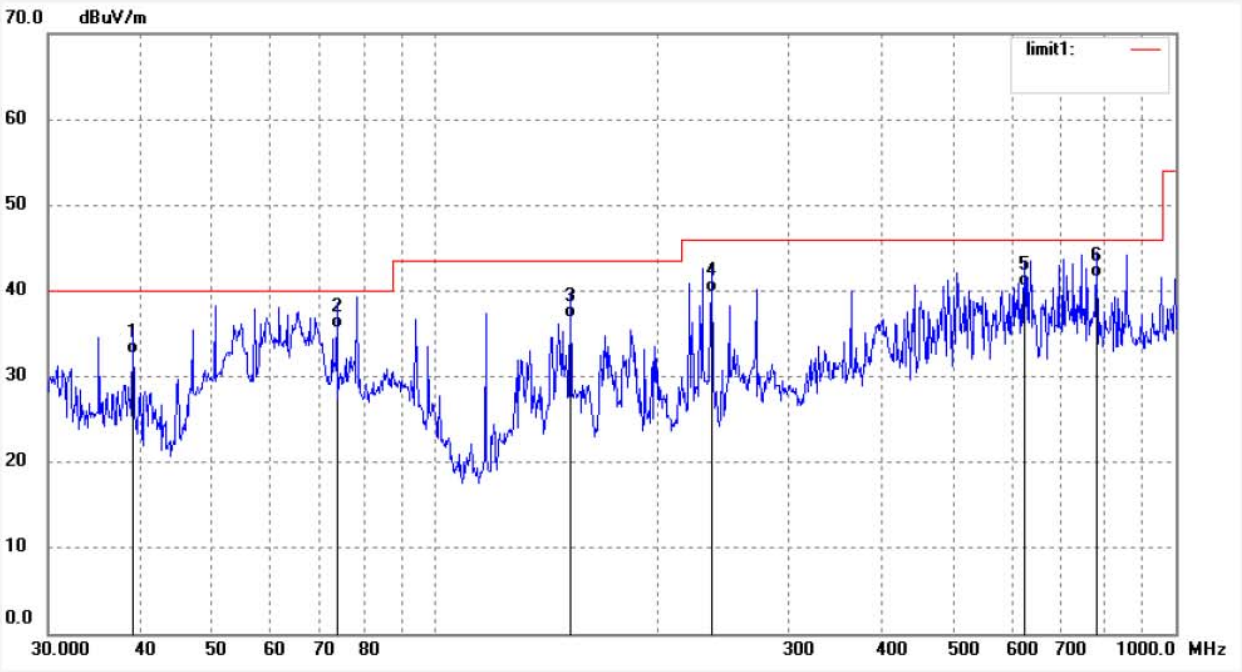
Job No.: JC #192
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Massge Chair
Mode: TX 2480MHz
Model: EC-622B
Manufacturer: COMFORT

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2017-11-2
Time: 15:05:40
Engineer Signature: star
Distance: 3m

Note: Report NO.:ATE20172033



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	39.0245	43.91	-11.32	32.59	40.00	-7.41	QP	100	94	
2	73.6170	52.16	-16.54	35.62	40.00	-4.38	QP	100	10	
3	152.1297	51.89	-15.01	36.88	43.50	-6.62	QP	100	19	
4	236.6447	50.54	-10.77	39.77	46.00	-6.23	QP	100	114	
5	625.0779	42.57	-2.00	40.57	46.00	-5.43	QP	100	246	
6	782.3452	41.12	0.41	41.53	46.00	-4.47	QP	100	331	

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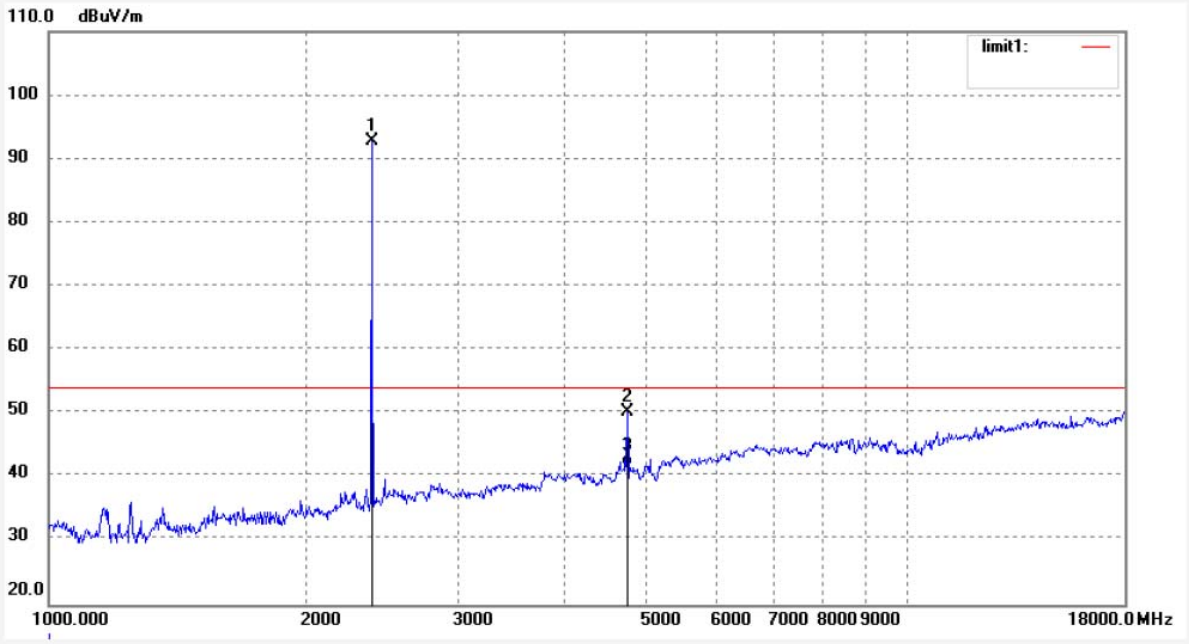
Job No.: DING11 #1835
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Massage Chair
Mode: TX 2402MHz
Model: EC-622B
Manufacturer: COMFORT

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 17/11/2/
Time: 9/17/55
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20172033



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	99.15	-6.37	92.78			peak	300	24	
2	4804.000	49.57	0.70	50.27	74.00	-23.73	peak	300	256	
3	4804.000	40.94	0.70	41.64	54.00	-12.36	AVG	300	256	

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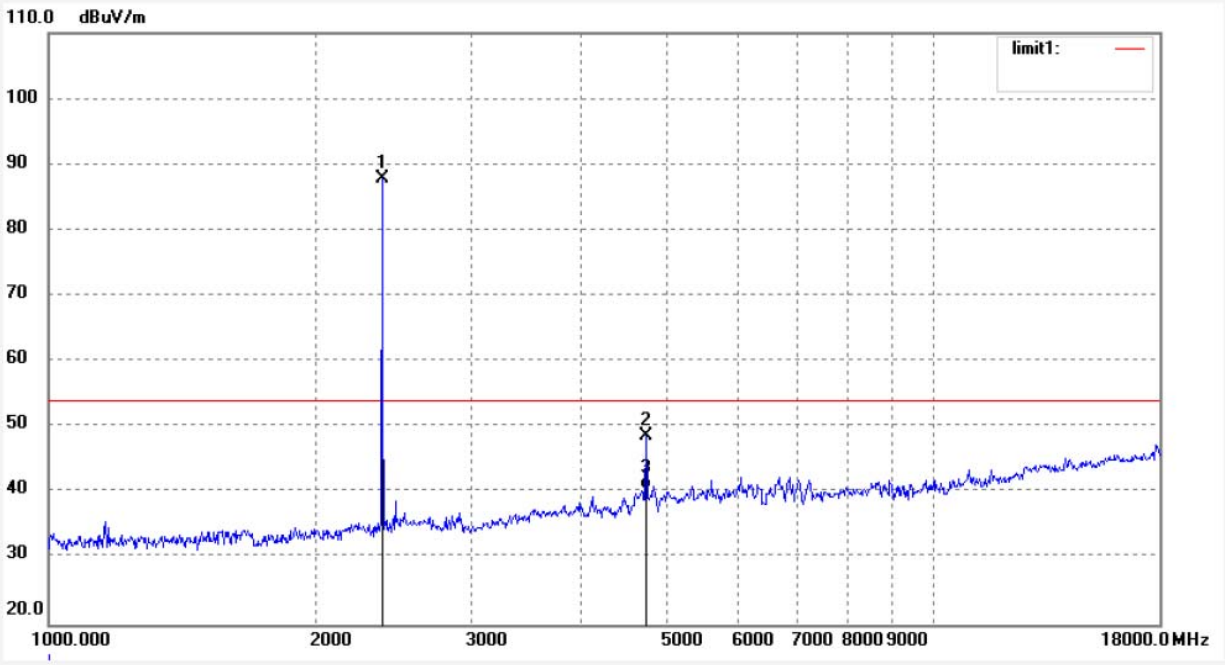
Job No.: DING11 #1836	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/11/2/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/19/52
EUT: Massage Chair	Engineer Signature: DING
Mode: TX 2402MHz	Distance: 3m
Model: EC-622B	
Manufacturer: COMFORT	

Note: Report NO.:ATE20172033



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	94.23	-6.37	87.86			peak	300	171	
2	4804.000	47.95	0.70	48.65	74.00	-25.35	peak	300	175	
3	4804.000	39.81	0.70	40.51	54.00	-13.49	AVG	300	175	

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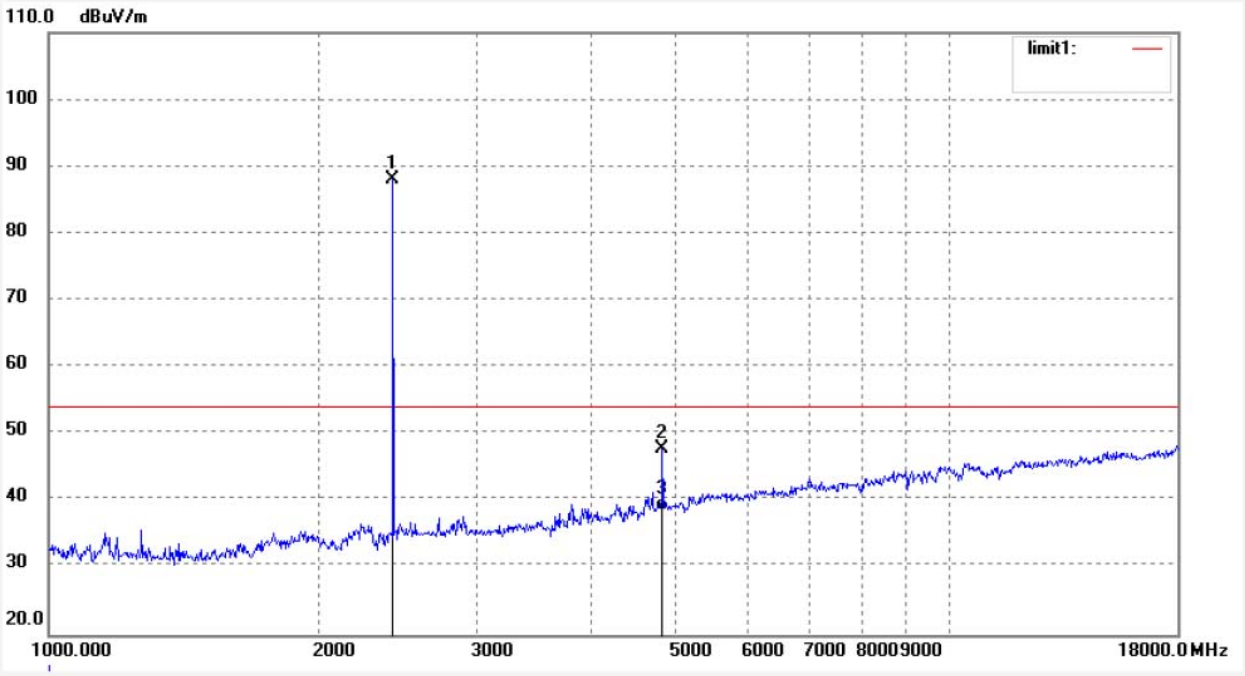
Job No.: DING11 #1837
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Massage Chair
Mode: TX 2440MHz
Model: EC-622B
Manufacturer: COMFORT

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 17/11/2/
Time: 9/24/28
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20172033



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	94.19	-6.20	87.99			peak	300	161	
2	4880.000	46.64	1.07	47.71	74.00	-26.29	peak	300	247	
3	4880.000	37.49	1.07	38.56	54.00	-15.44	AVG	300	247	

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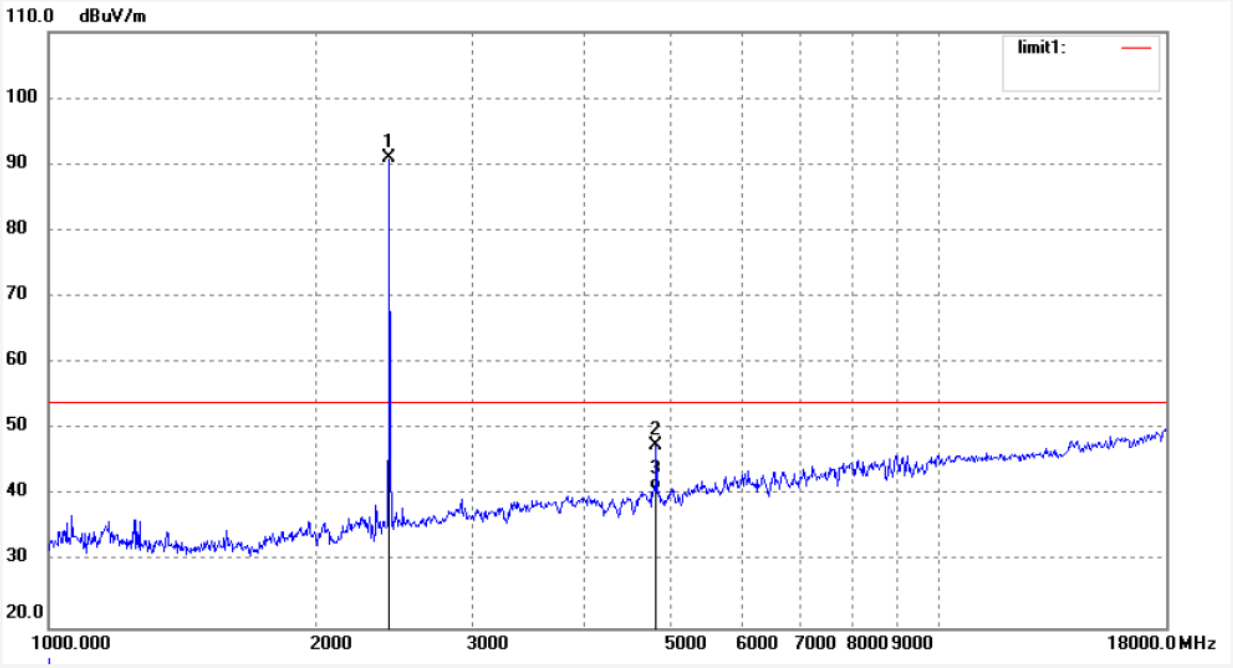
Job No.: DING11 #1838
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Massage Chair
Mode: TX 2440MHz
Model: EC-622B
Manufacturer: COMFORT

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 17/11/2/
Time: 9/27/28
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20172033



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	97.22	-6.20	91.02			peak	300	54	
2	4880.000	46.48	1.07	47.55	74.00	-26.45	peak	300	172	
3	4880.000	39.76	1.07	40.83	54.00	-13.17	AVG	300	172	

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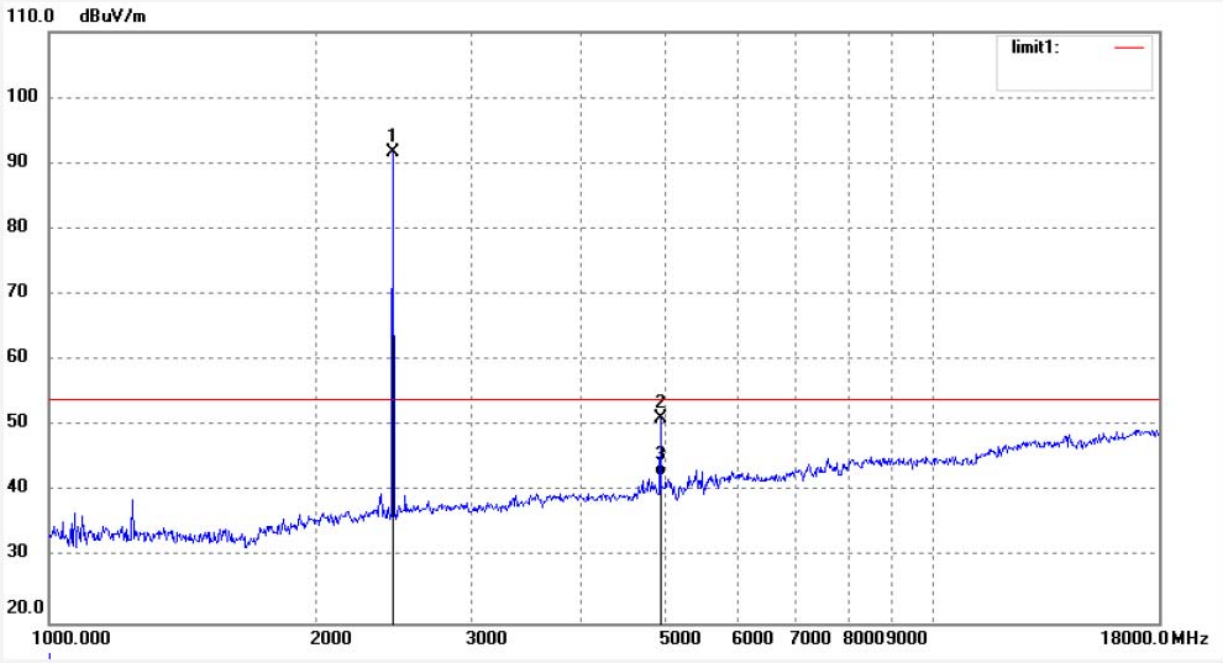
Job No.: DING11 #1839
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Massage Chair
Mode: TX 2480MHz
Model: EC-622B
Manufacturer: COMFORT

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 17/11/2/
Time: 9/35/24
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20172033



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	97.74	-6.04	91.70			peak	300	111	
2	4960.000	49.77	1.50	51.27	74.00	-22.73	peak	300	231	
3	4960.000	40.84	1.50	42.34	54.00	-11.66	AVG	300	231	

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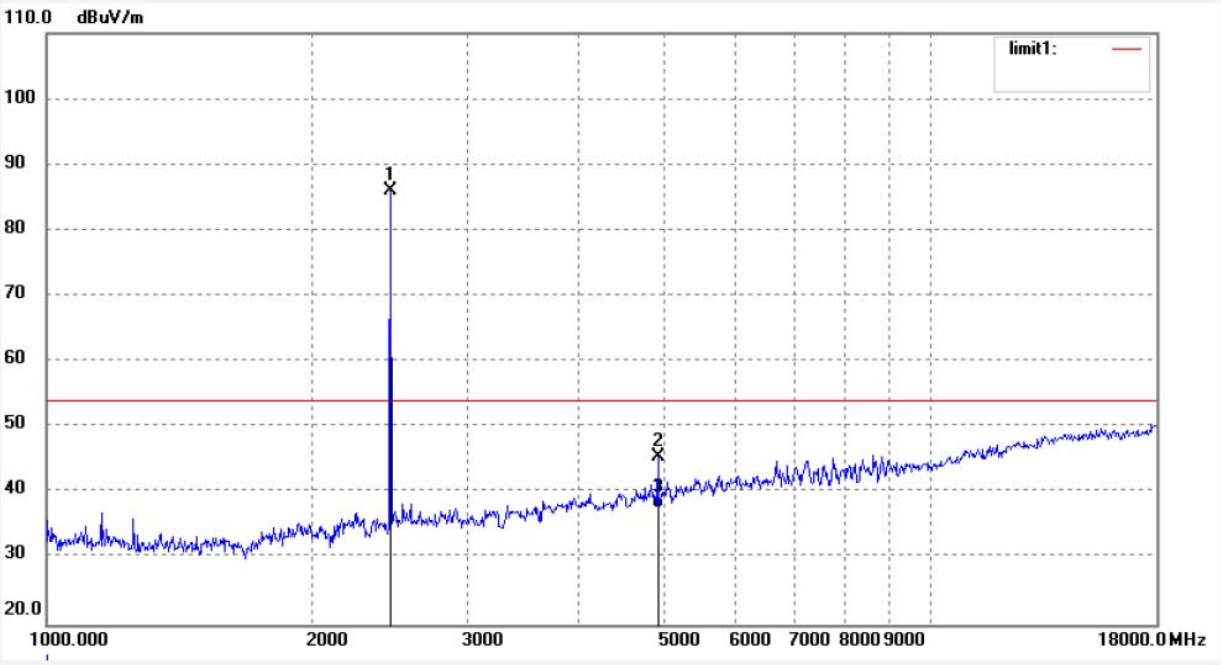
Job No.: DING11 #1840	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/11/2/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/36/39
EUT: Massage Chair	Engineer Signature: DING
Mode: TX 2480MHz	Distance: 3m
Model: EC-622B	
Manufacturer: COMFORT	

Note: Report NO.:ATE20172033



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	92.18	-6.04	86.14			peak	300	246	
2	4960.000	43.93	1.50	45.43	74.00	-28.57	peak	300	174	
3	4960.000	36.13	1.50	37.63	54.00	-16.37	AVG	300	174	

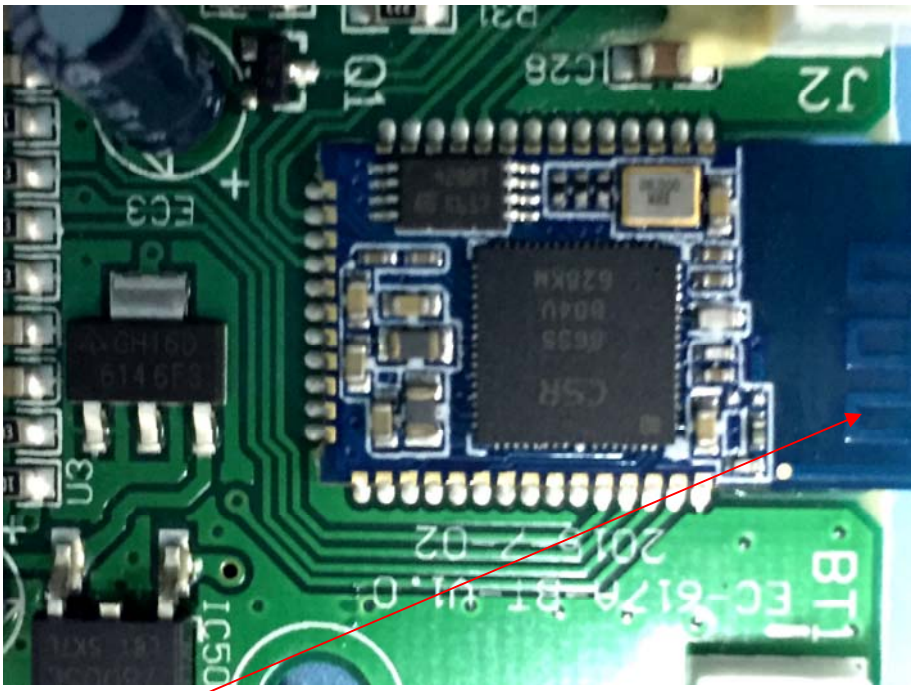
11. ANTENNA REQUIREMENT

11.1. The Requirement

According to Section 15.203, 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.

11.2. Antenna Construction

Device is equipped with external Antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 2.0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna