

# FCC PART 15 SUBPART C

Massage Chair

MODEL No.:

YYX-601,YYX-603,YYX-605,YYX-607,YYX-609,YYX-A1,YYX-A2,YYX-A3,  
YYX-A5,YYX-A6,YYX-A7,YYX-A8,YYX-A9,YYX-A10,YYX-A18,YYX-A28,  
YYX-A38,YYX-T601,YYX-T602,YYX-T603

FCC ID: 2BOI9YYX-603

REPORT NO.:NCT25013685E1-3

ISSUE DATE: Apr. 02, 2025

*Prepared for*

Fu'an Yiyangxuan Trading Co.,Ltd

No. 2-100, Guangchang North Road, Fu'an City, Fujian Province, China

*Prepared by*

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## TEST REPORT DESCRIPTION

Applicant : Fu'an Yiyangxuan Trading Co.,Ltd  
Address : No. 2-100, Guangchang North Road, Fu'an City, Fujian Province, China  
Manufacturer : Fu'an Yiyangxuan Trading Co.,Ltd  
Address : No. 2-100, Guangchang North Road, Fu'an City, Fujian Province, China  
EUT : Massage Chair  
Model Name : YYX-601,YYX-603,YYX-605,YYX-607,YYX-609,YYX-A1,YYX-A2,YYX-A3,  
YYX-A5,YYX-A6,YYX-A7,YYX-A8,YYX-A9,YYX-A10,YYX-A18,YYX-A28,  
YYX-A38,YYX-T601,YYX-T602,YYX-T603  
Trademark : N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 15, Subpart C	PASS

The above equipment was tested by Shenzhen NCT Testing Technology Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2020) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15C

The test results of this report relate only to the tested sample identified in this report.

Test Engineer:



Keven Wu / Engineer

Technical Manager:


Henry Wang / Manager

### Modified Information

Version	Report No.	Revision Data	Summary
Ver.1.0	NCT25013685E1-3	Apr. 02, 2025	Original Version

## 1. SUMMARY OF TEST RESULTS

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Spurious Emission	15.209(a)(f)	Pass
20dB Bandwidth	15.215	Pass

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

EUT	:	Massage Chair
Model Number	:	YYX-601,YYX-603,YYX-605,YYX-607,YYX-609,YYX-A1,YYX-A2,YYX-A3,YYX-A5,YYX-A6,YYX-A7,YYX-A8,YYX-A9,YYX-A10,YYX-A18,YYX-A28,YYX-A38,YYX-T601,YYX-T602,YYX-T603
Model different	:	All models are the same except for model name and colour.
Power Rating	:	Input AC 120V/60Hz
Operation Frequency for WPT	:	111-205 KHz
Modulation	:	MSK
Antenna Type:	:	Coil Antenna
Date of Received	:	Mar. 16, 2025
Date of Test	:	Mar. 16, 2025 to Apr. 02, 2025

### 2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Massage Chair	/	YYX-603	N/A	EUT
E-2	Phone	Mi	Xiaomi 14	N/A	Auxiliary

Note: (1)The support equipment was authorized by Declaration of Confirmation.  
(2)For detachable type I/O cable should be specified the length in cm in 『Length』 column.

### 2.3. Independent Operation Modes

Mode	Description	Remark
1.	EUT + iPhone(15W)	5%
2.		50%
3.		95%
4.	EUT + iPhone(10W)	5%
5.		50%
6.		95%
7.	EUT + iPhone(7.5W)	5%
8.		50%
9.		95%
10.	EUT + iPhone(5W)	5%
11.		50%
12.		95%

### 2.4. Test Mode

Test Items	Test Voltage	Operation Modes
RE	input AC 120V/60Hz	Charging Mode 1
CE	input AC 120V/60Hz	Charging Mode 1

### 2.5. Description of Test Facility

#### Site Description

EMC Lab. : Accredited by CNAS, 2022-09-27  
 The certificate is valid until 2028.01.07  
 The Laboratory has been assessed and proved to be in compliance with  
 CNAS-CL01:2006 (identical to ISO/IEC 17025:2017)  
 The Certificate Registration Number is L8251

Designation Number: CN1347  
 Test Firm Registration Number: 894804  
 Accredited by A2LA, June 14, 2023  
 The Certificate Registration Number is 6837.01

Accredited by Industry Canada, November 09, 2018  
 The Conformity Assessment Body Identifier is CN0150  
 Company Number: 30806

Name of Firm : Shenzhen NCT Testing Technology Co., Ltd.  
 Site Location : A101&2F B2, Fuqiao 6th Area, Xintian Community, Fuhai Street, Baoan District, Shenzhen, People's Republic of China

## 2.6. Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	±1.0dB
Power Spectral Density, conducted	±2.2dB
Radio Frequency	± 1 x 10 <sup>-6</sup>
Bandwidth	± 1.5 x 10 <sup>-6</sup>
Time	±2%
Duty Cycle	±2%
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±3%
Conducted Emissions (150kHz~30MHz)	±3.64dB
Radiated Emission(9kHz~30MHz)	±4.51dB
Radiated Emission(30MHz~1GHz)	±5.03dB
Radiated Emission(1GHz~25GHz)	±4.74dB

### 3. MEASURING DEVICE AND TEST EQUIPMENT

Radiated emission & Radio Frequency Test Equipment

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
966 Shielded Room	966 Room	/	EMToni	2022/5/31	2025/5/30
EMI Test Receiver	ESCI	101178	Rohde & Schwarz	2024/6/17	2025/6/16
Spectrum Analyze (10Hz-26.5GHz)	N9020A	MY50510202	Agilent	2024/6/17	2025/6/16
Amplifi (30MHz-1GHz)	BBV 9743 B	00374	SCHNARZBECK	2024/6/17	2025/6/16
Bilog Antenna (30MHz-1GHz)	VULB9162	00473	SCHNARZBECK	2025/3/10	2026/3/9
Horn antenna (1GHz-18GHz)	BBHA 9120 D	02622	SCHNARZBECK	2025/3/10	2026/3/9
Pream plifier (1GHz-18GHz)	BBV 9718D	0024	SCHNARZBECK	2024/6/17	2025/6/16
Spectrum Analyze (10Hz-40GHz)	FSV 40	100952	Rohde & Schwarz	2024/6/17	2025/6/16
Pream plifier (18GHz-40GHz)	BBV 9721	0056	SCHNARZBECK	2024/6/17	2025/6/16
Double Ridge Guide Horn Antenna (18GHz-40GHz)	SAS-574	588	A.H.System	2025/3/10	2026/3/9
Loop Antenna (9KHz-30MHz)	FMZB1519B	014	SCHNARZBECK	2024/6/17	2025/6/16
Amplifier (9KHz-30MHz)	CVP 9222 C	00109	SCHNARZBECK	2024/6/17	2025/6/16
MXG Signal Analyzer	N9020A	MY50510202	Agilent	2024/6/17	2025/6/16
MXG Vector Signal Generator	N5182A	MY50140020	Agilent	2024/6/17	2025/6/16
MXG Analog Signal Generator	N5181A	MY47420919	Agilent	2024/6/17	2025/6/16
Power Sensor	TR1029-2	512364	Techoy	2024/6/17	2025/6/16
RF Swith	TR1029-1	512364	Techoy	2024/6/17	2025/6/16
Cable	DA800- 4000MM	NA	DA	2024/6/17	2025/6/16
Cable	DA800- 11000MM	NA	DA	2024/6/17	2025/6/16

## Conducted emission Test Equipment

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
944 Shielded Room	944 Room	/	EMToni	2022/5/31	2025/5/30
EMI Test Receiver	ESPI	101604	Rohde & Schwarz	2024/6/17	2025/6/16
LISN	ENV 216	102796	Rohde & Schwarz	2024/6/17	2025/6/16
LISN	VN1-13S	004023	CRANAGE	2024/6/17	2025/6/16
Cable	RG223-1500MM	NA	RG	2024/6/17	2025/6/16

## Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ-EMC	Ver.EMC-CON 3A1.1+
2	EMC radiation test system	FALA	EZ-EMC	Ver.FA-03A2 RE+
3	RF test system	TACHOY	RFTest	V1.0.0
4	RF communication test system	TACHOY	RFTest	V1.0.0

## 4. 20DB BANDWIDTH

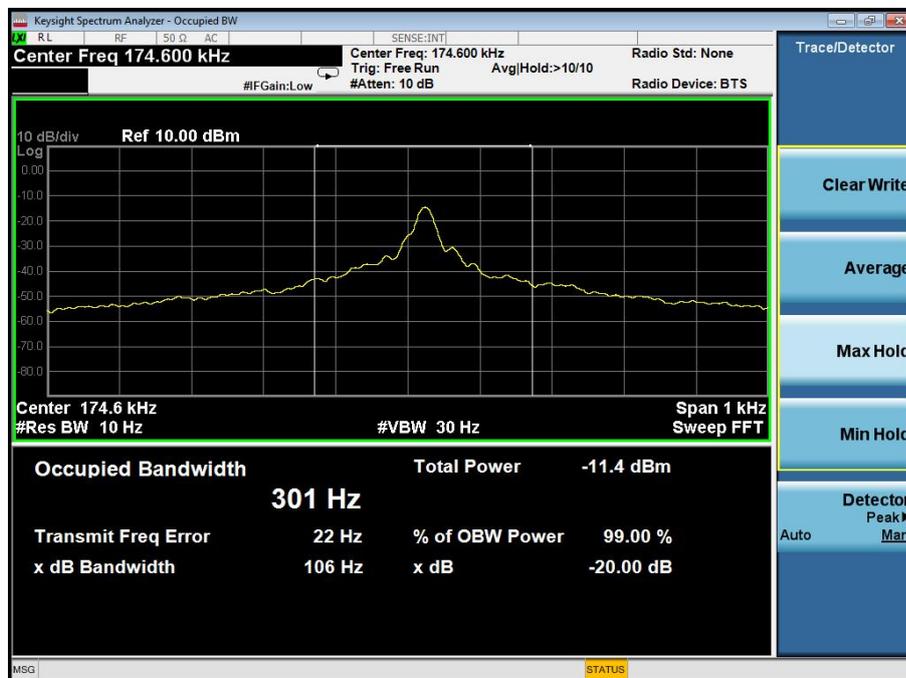
### 4.1. Test Procedure

Set to the maximum power setting and enable the EUT transmit continuously  
 Set RBW = 1-5%OBW.  
 Set the video bandwidth (VBW) =3RBW.  
 Set Span= 500Hz  
 Set Detector = Peak.  
 Set Trace mode = Max hold.  
 Set Sweep = auto couple.  
 Measure and record the results in the test report.

### 4.2. Test Results

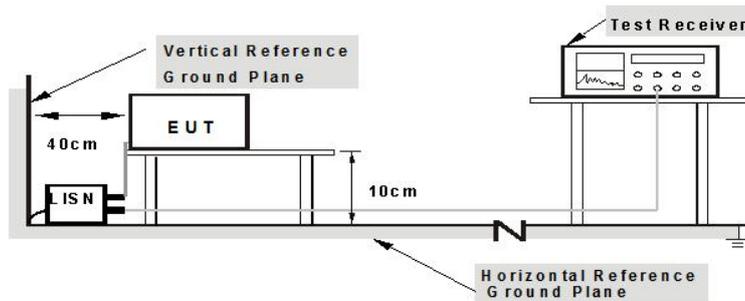
	Frequency (KHz)	20dB bandwidth (Hz)	99% bandwidth (Hz)	Result
For Phone	174.6	106	301	Pass

For Phone



## 5. POWER LINE CONDUCTED EMISSION MEASUREMENT

### 5.1. Block Diagram of Test Setup



Note: 1.Support units were connected to second LISN.  
 2.Both of LISNs (AMN) are 10 cm from EUT and at least 10 from other units and other metal planes

LISN: Line Impedance Stabilization Network  
 AE: Associated equipment  
 EUT: Equipment under test

### 5.2. Limits

FCC Part 15.207

Frequency (MHz)	Limit (dB $\mu$ V)	
	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. Test Procedure

The EUT was placed on a desk 0.1 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.1 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a line impedance stabilization network (LISN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

Test results were obtained from the following equation:

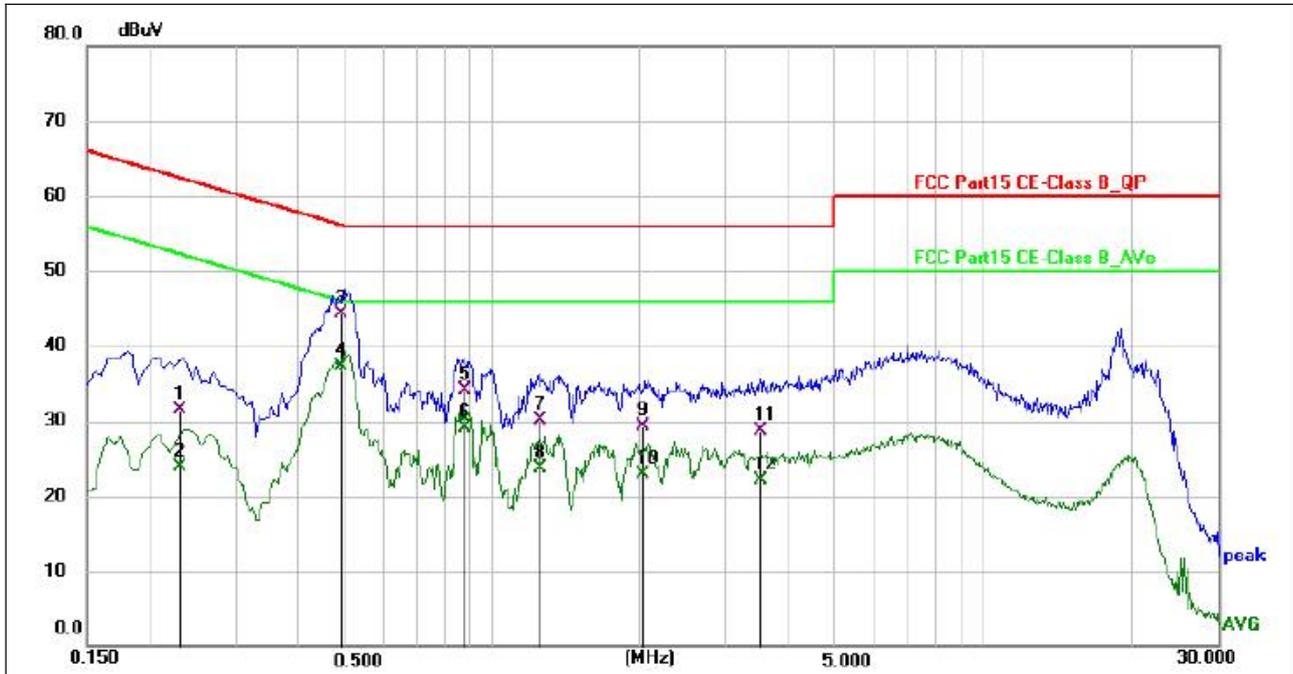
Emission Level (dB $\mu$ V) = LISN Factor (dB) + Cable Loss (dB) + Reading (dB $\mu$ V)

Margin (dB) = Emission Level (dB $\mu$ V) - Limit (dB $\mu$ V)

#### 5.4. Measuring Results

**PASS.**

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Mode:	Mode 1

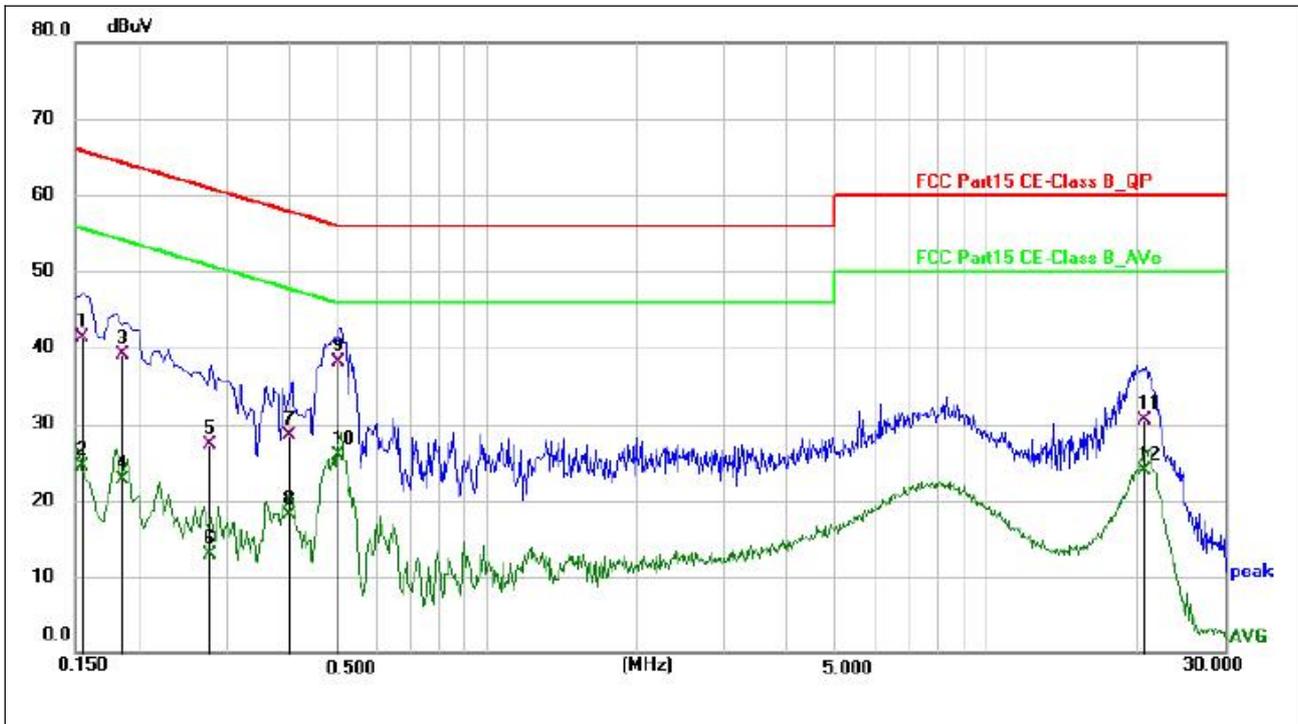


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2322	21.87	9.67	31.54	62.37	-30.83	QP
2	0.2322	14.33	9.67	24.00	52.37	-28.37	AVG
3	0.4935	34.56	9.66	44.22	56.11	-11.89	QP
4 *	0.4935	27.65	9.66	37.31	46.11	-8.80	AVG
5	0.8813	24.53	9.66	34.19	56.00	-21.81	QP
6	0.8813	19.41	9.66	29.07	46.00	-16.93	AVG
7	1.2633	20.42	9.67	30.09	56.00	-25.91	QP
8	1.2633	14.01	9.67	23.68	46.00	-22.32	AVG
9	2.0371	19.62	9.69	29.31	56.00	-26.69	QP
10	2.0371	13.24	9.69	22.93	46.00	-23.07	AVG
11	3.5436	19.05	9.71	28.76	56.00	-27.24	QP
12	3.5436	12.38	9.71	22.09	46.00	-23.91	AVG

**Notes:**

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1549	31.67	9.67	41.34	65.73	-24.39	QP
2	0.1549	14.81	9.67	24.48	55.73	-31.25	AVG
3	0.1853	29.38	9.68	39.06	64.24	-25.18	QP
4	0.1853	12.97	9.68	22.65	54.24	-31.59	AVG
5	0.2779	17.69	9.66	27.35	60.88	-33.53	QP
6	0.2779	3.27	9.66	12.93	50.88	-37.95	AVG
7	0.4027	18.91	9.67	28.58	57.80	-29.22	QP
8	0.4027	8.42	9.67	18.09	47.80	-29.71	AVG
9 *	0.5052	28.45	9.67	38.12	56.00	-17.88	QP
10	0.5052	16.25	9.67	25.92	46.00	-20.08	AVG
11	20.8028	20.45	10.05	30.50	60.00	-29.50	QP
12	20.8028	13.83	10.05	23.88	50.00	-26.12	AVG

**Notes:**

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

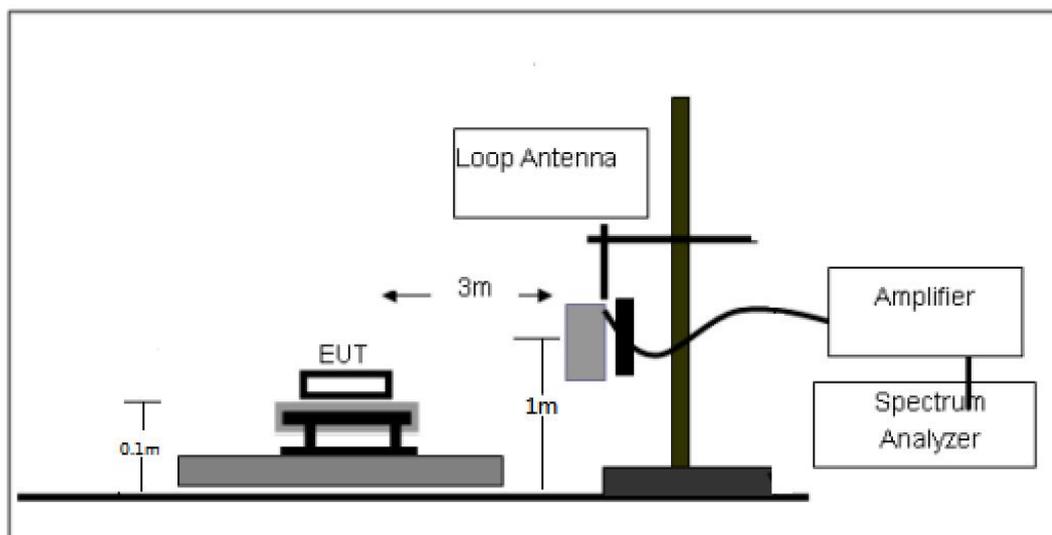
## 6. RADIATED EMISSION TEST

### 6.1. Measurement Procedure

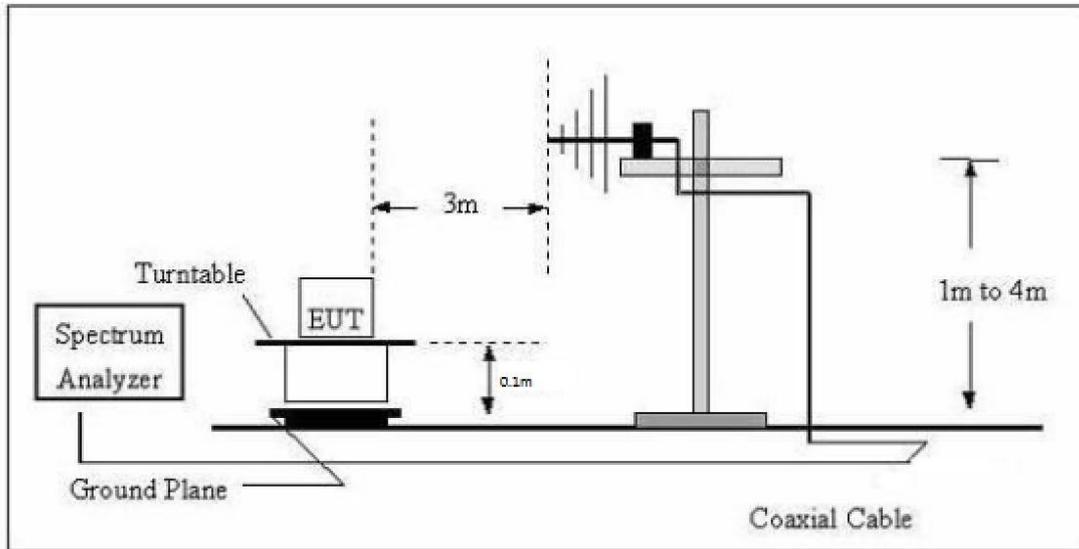
1. The EUT was placed on a turn table which is 0.1m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.
5. Use the following receiver/spectrum analyzer settings:  
Span = wide enough to fully capture the emission being measured  
RBW=200Hz for 9KHz to 150KHz,  
RBW=9kHz for 150KHz to 30MHz,  
RBW=120KHz for 30MHz to 1GHz  
VBW  $\geq$  3\*RBW  
Sweep = auto  
Detector function = QP  
Trace = max hold

### 6.2. Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



6.3. Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100* 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 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	( <sup>2</sup> )

- Remark:
1. Emission level in dBuV/m=20 log (uV/m)
  2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
  3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

## 6.4.Measurement Result

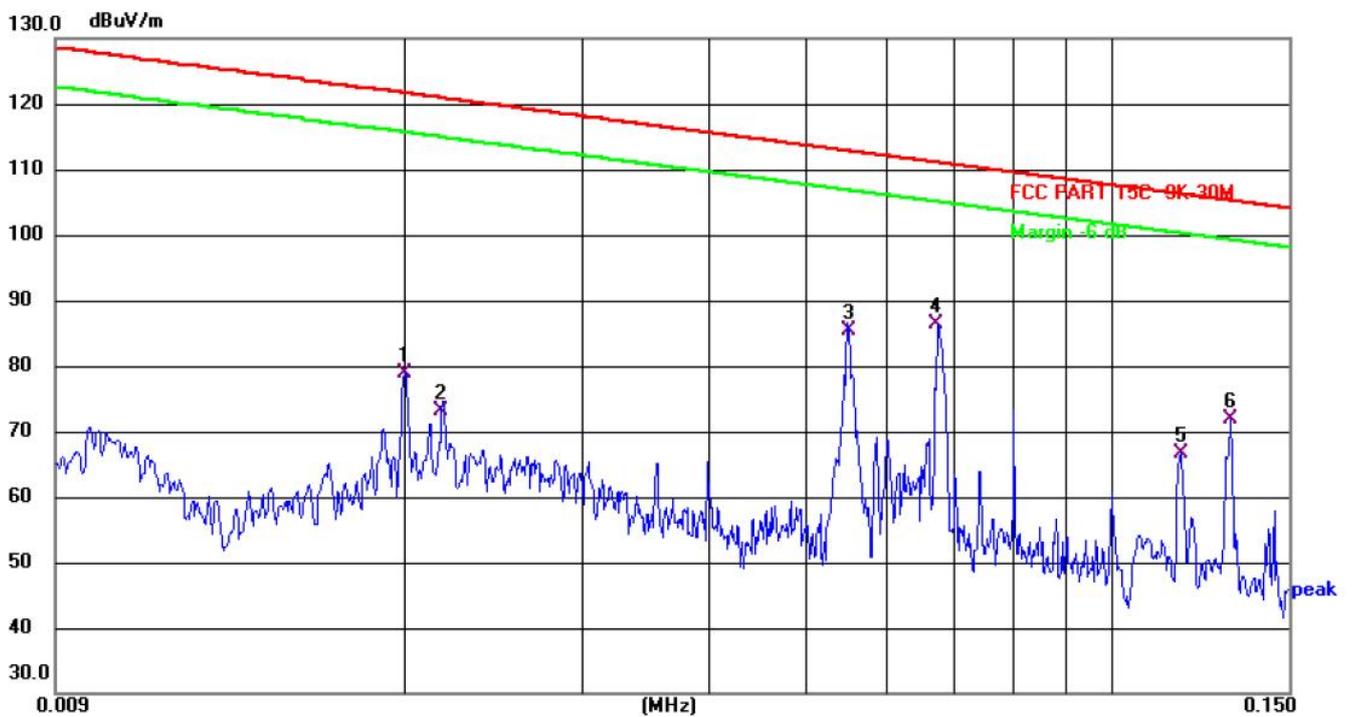
Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

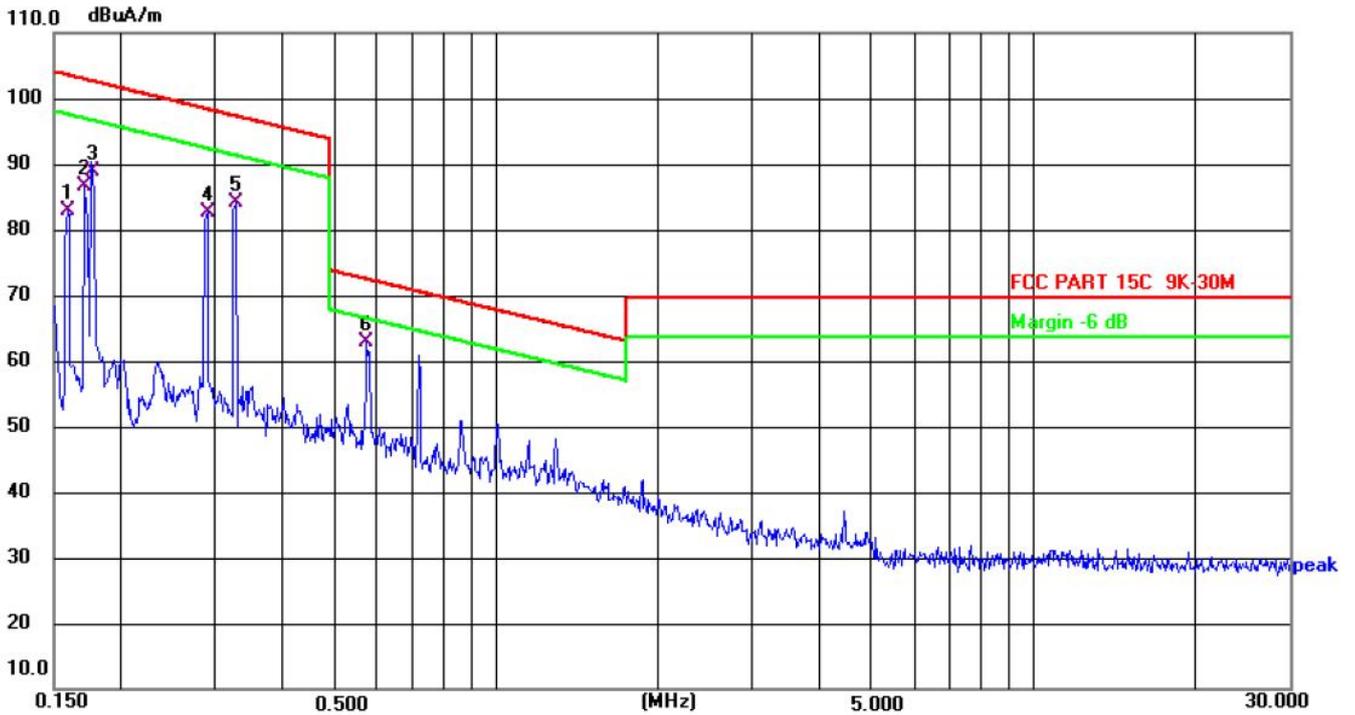
Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa		
Test Voltage :	AC 120V/60Hz	Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0200	50.58	28.27	78.85	121.57	-42.72	QP
2	0.0217	44.84	28.24	73.08	120.86	-47.78	QP
3	0.0550	57.53	27.84	85.37	112.79	-27.42	QP
4	0.0670	58.63	27.71	86.34	111.07	-24.73	QP
5	0.1170	39.40	27.22	66.62	106.23	-39.61	QP
6	0.1310	44.62	27.14	71.76	105.25	-33.49	QP

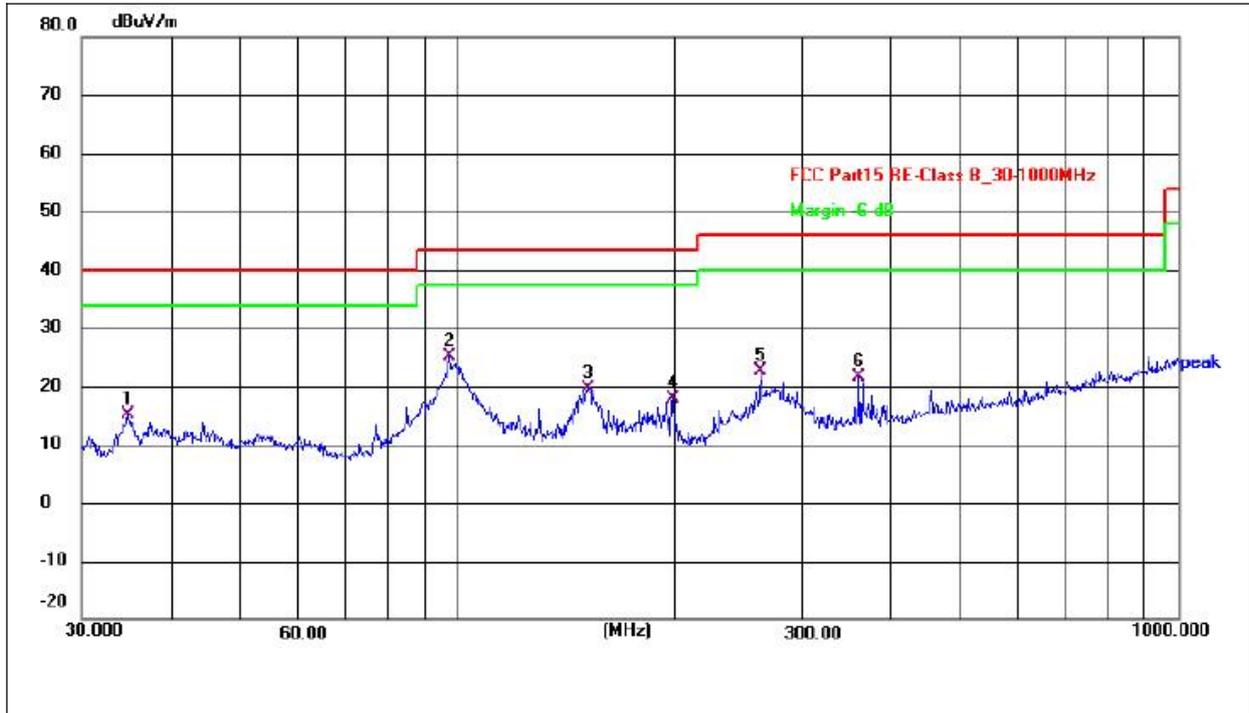


No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUA/m)	Limit (dBUA/m)	Margin (dB)	Detector
1	0.1590	55.91	27.02	82.93	103.57	-20.64	QP
2	0.1703	59.63	26.98	86.61	102.97	-16.36	QP
3	0.1766	61.87	26.96	88.83	102.66	-13.83	QP
4	0.2893	56.10	26.61	82.71	98.37	-15.66	QP
5	0.3266	57.65	26.49	84.14	97.32	-13.18	QP
6	0.5731	37.18	25.73	62.91	72.47	-9.56	QP

Note:  
 Pre-scan in the all of mode, the worst case in of was recorded.  
 Factor = antenna factor + cable loss – pre-amplifier.  
 Margin = Emission Level- Limit.

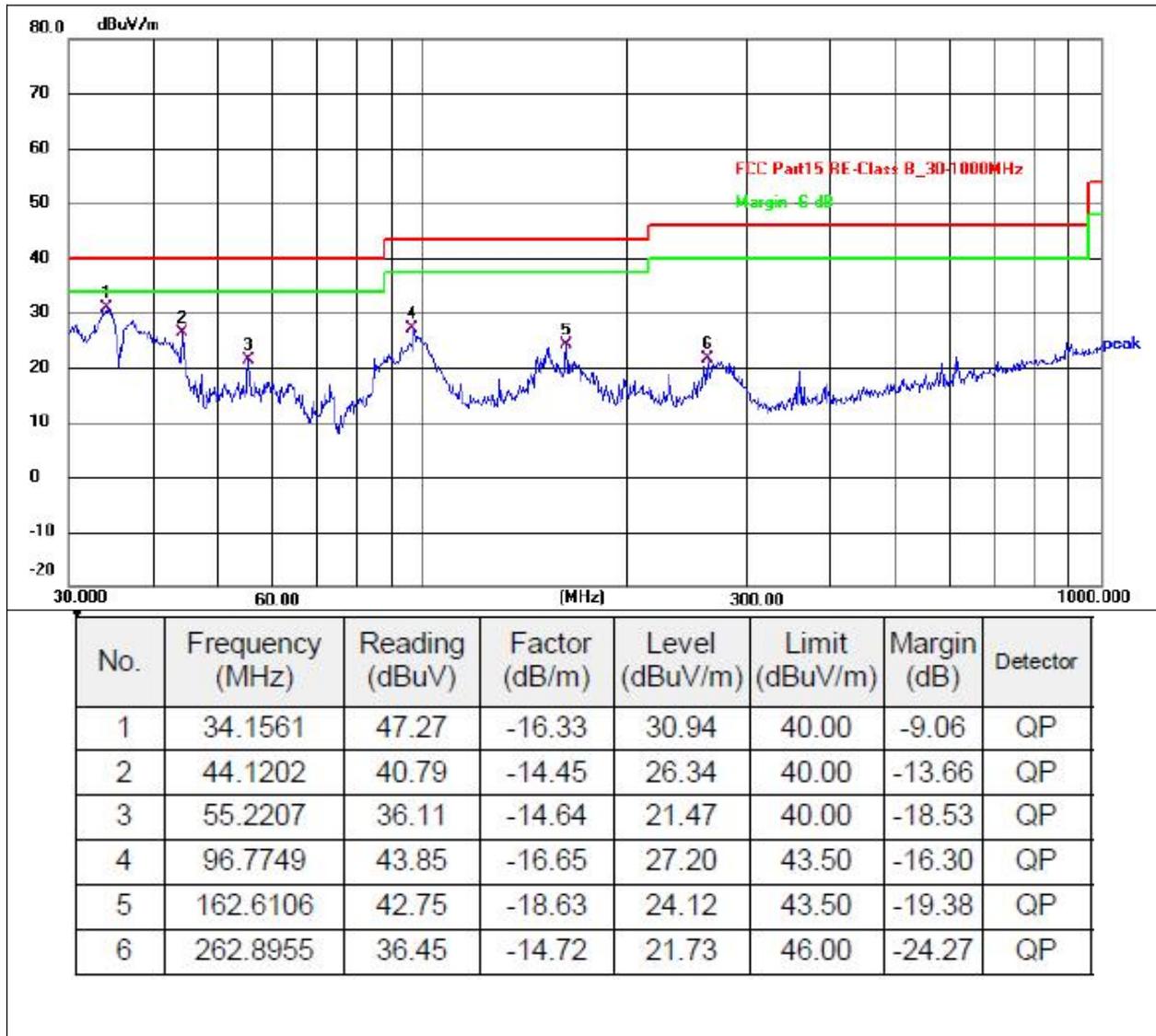
30MHz-1GHz:

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Mode:	Model 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	34.7601	31.54	-16.31	15.23	40.00	-24.77	QP
2	97.1148	41.72	-16.57	25.15	43.50	-18.35	QP
3	151.5972	38.89	-19.21	19.68	43.50	-23.82	QP
4	198.5880	34.42	-16.50	17.92	43.50	-25.58	QP
5	262.8955	37.40	-14.72	22.68	46.00	-23.32	QP
6	360.4476	34.10	-12.37	21.73	46.00	-24.27	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Mode:	Model 1



Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 7. TEST PHOTOGRAPHS AND EUT PHOTOGRAPHS

Please see the attachment for details.

-----The end-----