



# FCC TEST REPORT

## FCC ID:2ATZH-M4

**Report Number**..... : **ZKT-2309287532E**

Date of Test..... Jul. 29, 2023 to Oct. 13, 2023

Date of issue..... Oct. 13, 2023

Total number of pages..... 28

Test Result ..... : PASS

**Testing Laboratory**..... : **Shenzhen ZKT Technology Co., Ltd.**

Address ..... : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

**Applicant's name** ..... : **Shenzhen Maxxon Technology Limited**

Address ..... : 4/F, #56 Building, Rentian Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong 518103 China

**Manufacturer's name** ..... : **Shenzhen Maxxon Technology Limited**

Address ..... : 4/F, #56 Building, Rentian Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong 518103 China

**Test specification:**

Standard..... : FCC CFR Title 47 Part 15 Subpart C

Test procedure..... : /

Non-standard test method ..... : N/A

**Test Report Form No**..... : TRF-EL-107\_V0

**Test Report Form(s) Originator**..... : ZKT Testing

**Master TRF** ..... : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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**Product name**..... : **Wireless Charging Station**

Trademark ..... : N/A

Model/Type reference..... : M4  
M3, M6, M7, M9, M10, M11, M12  
Input: 5V ---3A, 9V ---3A, 12V ---2.5A

Ratings..... : Output 1 : 5W/7.5W/10W/15W  
Output 2 : 5W  
Output 3 : 2.5W



**Testing procedure and testing location:**

**Testing Laboratory**.....: **Shenzhen ZKT Technology Co., Ltd.**

**Address**.....: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

**Tested by (name + signature)**.....: Jim Liu

**Reviewer (name + signature)**.....: Jackson Fang

**Approved (name + signature)**.....: Lake Xie





## TABLE OF CONTENTS

<b>1. VERSION</b>	<b>4</b>
<b>2. TEST SUMMARY</b>	<b>5</b>
2.1 TEST FACILITY	6
2.2 MEASUREMENT UNCERTAINTY	6
<b>3. GENERAL INFORMATION</b>	<b>7</b>
3.1 GENERAL DESCRIPTION OF EUT	7
3.2 Test mode	7
3.3 Block Diagram of EUT Configuration	8
3.4 Test Conditions	8
3.5 Description Of Support Units (Conducted Mode)	8
3.6 EQUIPMENTS LIST FOR ALL TEST ITEMS	9
<b>4. CONDUCTED EMISSION TEST</b>	<b>9</b>
4.1 CONDUCTED EMISSION MEASUREMENT	11
4.1.1 POWER LINE CONDUCTED EMISSION Limits	11
4.1.2 TEST PROCEDURE	11
4.1.3 DEVIATION FROM TEST STANDARD	11
4.1.4 TEST SETUP	12
4.1.5 EUT OPERATING CONDITIONS	12
4.1.6 Test Result	13
<b>5. RADIATED EMISSION MEASUREMENT</b>	<b>15</b>
5.1 Radiated Emission Limits	15
5.2 Anechoic Chamber Test Setup Diagram	16
5.3 Test Procedure	16
5.4 DEVIATION FROM TEST STANDARD	16
5.5 Test Result	17
<b>6. BANDWIDTH TEST</b>	<b>25</b>
<b>7. TEST SETUP PHOTO</b>	<b>29</b>
<b>8. EUT CONSTRUCTIONAL DETAILS</b>	<b>29</b>



### 1. VERSION

Report No.	Version	Description	Approved
ZKT-2309287532E	Rev.01	Initial issue of report	Oct. 13, 2023



## 2. TEST SUMMARY

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

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report



## 2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.  
Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225  
Designation Number: CN1299  
IC Registered No.: 27033  
CAB identifier: CN0110

## 2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB
5	Conducted disturbance	U=3.2dB
6	RF Band Edge	U=1.68dB
7	RF power conducted	U=1.86dB
8	RF conducted Spurious Emission	U=2.2dB
9	RF Occupied Bandwidth	U=1.8MHz
10	RF Power Spectral Density	U=1.75dB
11	humidity uncertainty	U=5.3%
12	Temperature uncertainty	U=0.59°C



### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Wireless Charging Station
Model No.:	M4 M3, M6, M7, M9, M10, M11, M12
Model Difference:	All the model are the same circuit and RF module, except for model name.
Serial No.:	N/A
Hardware version:	H1.0
Software version:	S1.0
Operation Frequency:	Phone Coil: 115K-205KHz Earphone Coil: 115K-350KHz Watch Coil: 115K-350KHz
Modulation type:	MSK
Antenna Type:	Inductive loop coil Antenna
Antenna gain:	0dBi
Power supply:	Input: 5V $\overline{=}$ 3A, 9V $\overline{=}$ 3A, 12V $\overline{=}$ 2.5A Output 1 : 5W/7.5W/10W/15W Output 2 : 5W Output 3 : 2.5W

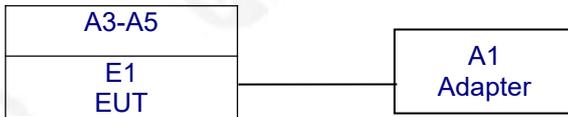
#### 3.2 Test mode

Test Modes:	Description:
Phone Coil+Earphone Coil+Watch Coil	Mode 1: AC/DC Adapter+EUT + Earphone +Watch (Battery Status:<1%)+Wireless load (Full Load)
	Mode 2: AC/DC Adapter+EUT + Earphone + Watch (Battery Status:<50%)+Wireless load (Full Load)
	Mode 3: AC/DC Adapter+EUT +Earphone +Watch (Battery Status:<100%)+Wireless load (Full Load)
	Mode 4 :AC/DC Adapter+EUT +Earphone +Watch (Battery Status:<1%)+Wireless load (Half Load)
	Mode 5: AC/DC Adapter+EUT + Earphone + Watch (Battery Status:<50%)+Wireless load (Half Load)
	Mode 6: AC/DC Adapter+EUT + Earphone +Watch (Battery Status:<100%)+Wireless load (Half Load)
	Mode 7:AC/DC Adapter+EUT + Earphone + Watch (Battery Status:<1%)+Wireless load (Null Load)
	Mode 8:AC/DC Adapter+EUT +Earphone + Watch (Battery Status:<50%)+Wireless load (Null Load)
	Mode 9:AC/DC Adapter+EUT +Earphone +Watch (Battery Status:<100%)+Wireless load (Null Load)
No Loads	AC/DC Adapter+EUT (Null Load)

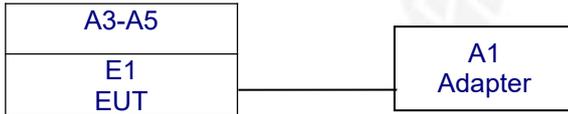


### 3.3 Block Diagram of EUT Configuration

#### Conducted Emission



#### Radiated Emission



### 3.4 Test Conditions

Temperature: 23~26°C

Relative Humidity: 54~63 %

### 3.5 Description Of Support Units (Conducted Mode)

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
E1	Wireless Charging Station	N/A	M4	N/A	EUT
A1	AC/DC adapter	N/A	H6157-W1	N/A	Auxiliary
A3	Watch	Apple	Watch Series 8	N/A	Auxiliary
A4	Phone	Apple	iPhone13 pro	N/A	Auxiliary
A5	Earphone	Apple	Air Pods	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	1.0M	DC cable unshielded

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.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



### 3.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

#### Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	Oct. 21, 2022	Oct. 20, 2023
2	LISN	CYBERTEK	EM5040A	E1850400149	Oct. 21, 2022	Oct. 20, 2023
3	Test Cable	N/A	C-01	N/A	Oct. 21, 2022	Oct. 20, 2023
4	Test Cable	N/A	C-02	N/A	Oct. 21, 2022	Oct. 20, 2023
5	Test Cable	N/A	C-03	N/A	Oct. 21, 2022	Oct. 20, 2023
6	EMI Test Receiver	R&S	ESCI3	101393	Oct. 28, 2022	Oct. 27, 2023
7	Triple-Loop Antenna	N/A	RF300	N/A	Oct. 28, 2022	Oct. 27, 2023
8	Absorbing Clamp	DZ	ZN23201	15034	Oct. 31, 2022	Oct. 30, 2023
9	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	\	\

#### Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	Oct. 28, 2022	Oct. 27, 2023
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSQ	100363	Oct. 28, 2022	Oct. 27, 2023
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	101169	Oct. 28, 2022	Oct. 27, 2023
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	N/A	Nov. 02, 2022	Nov. 01, 2023
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	Nov. 01, 2022	Oct. 31, 2023
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	Oct. 28, 2022	Oct. 27, 2023
7	Loop Antenna	TESEQ	HLA6121	58357	Nov. 01, 2022	Oct. 31, 2023
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	060747	Nov. 15, 2022	Nov. 14, 2023
9	Amplifier (1GHz-26.5GHz)	Agilent	8449B	3008A00315	Oct. 28, 2022	Oct. 27, 2023
10	Amplifier (500MHz-40GHz)	Quanjuda	DLE-161	097	Oct. 28, 2022	Oct. 27, 2023
11	Test Cable	N/A	R-01	N/A	Oct. 28, 2022	Oct. 27, 2023
12	Test Cable	N/A	R-02	N/A	Oct. 28, 2022	Oct. 27, 2023
13	Test Cable	N/A	R-03	N/A	Oct. 28, 2022	Oct. 27, 2023
14	D.C. Power Supply	LongWei	TPR-6405D	N/A	\	\
15	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	\	\
16	Turntable	MF	MF-7802BS	N/A	\	\
17	Antenna tower	MF	MF-7802BS	N/A	\	\



RF Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	Oct. 28, 2022	Oct. 27, 2023
2	Test Cable	N/A	RF-01	N/A	Oct. 28, 2022	Oct. 27, 2023
3	Test Cable	N/A	RF-02	N/A	Oct. 28, 2022	Oct. 27, 2023
4	Test Cable	N/A	RF-03	N/A	Oct. 28, 2022	Oct. 27, 2023
5	ESG Signal Generator	Agilent	E4421B	N/A	Oct. 21, 2022	Oct. 20, 2023
6	Signal Generator	Agilent	N5182A	N/A	Oct. 21, 2022	Oct. 20, 2023
7	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	Nov. 15, 2022	Nov. 14, 2023
8	Wideband Radio Communication Test	R&S	CMW500	106504	Oct. 28, 2022	Oct. 27, 2023
9	MWRF Power Meter Test system	MW	MW100-RP CB	N/A	Oct. 21, 2022	Oct. 20, 2023
10	RF Software	MW	MTM3, M6, M7, M9, M10, M11, M12310	V2.0.0.0	\	\



#### 4. CONDUCTED EMISSION TEST

##### 4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

##### 4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quas-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) \*Decreases with the logarithm of the frequency.

##### 4.1.2 TEST PROCEDURE

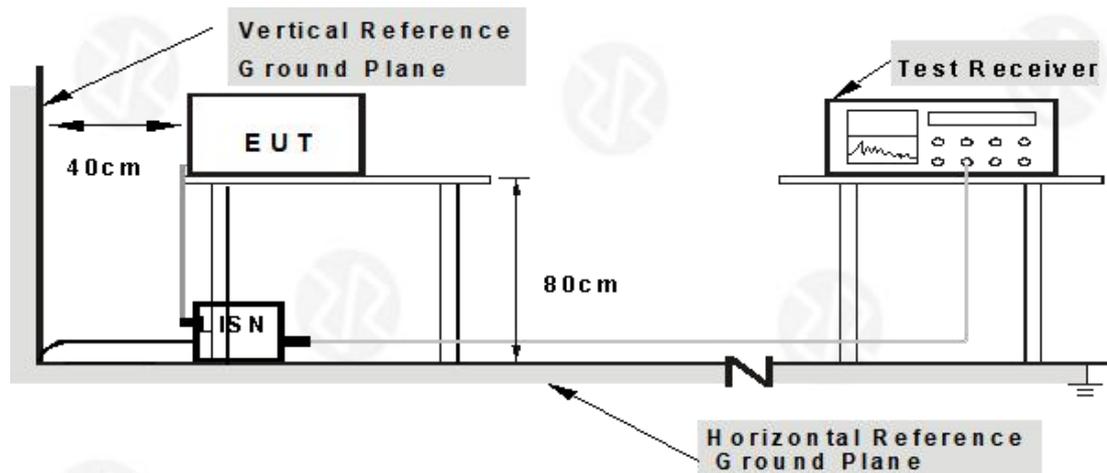
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

##### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation



#### 4.1.4 TEST SETUP



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

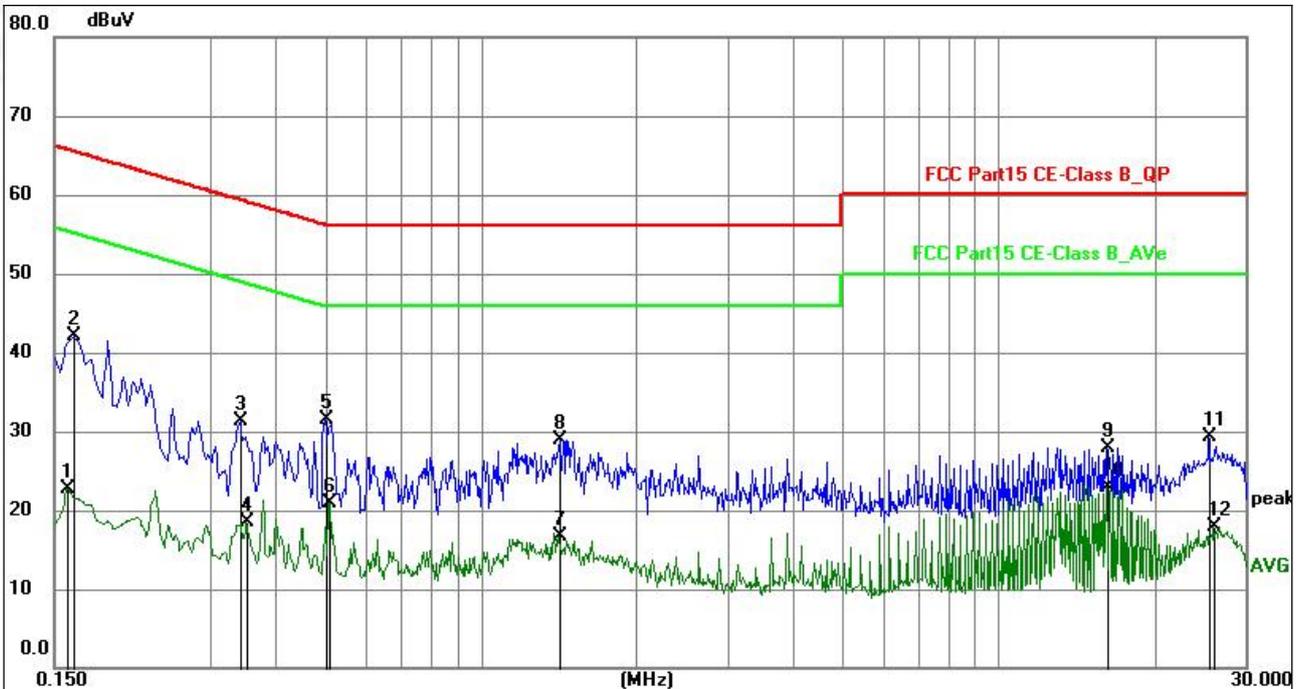
#### 4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



### 4.1.6 Test Result

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



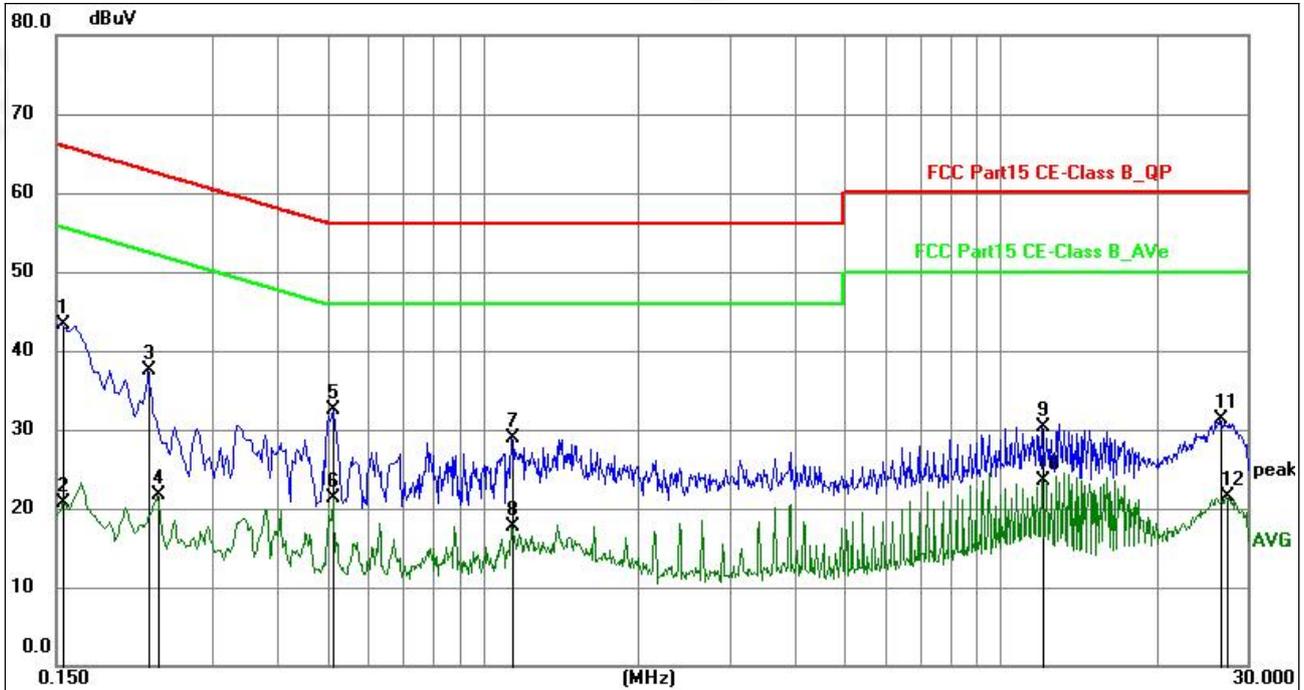
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1590	11.53	11.15	22.68	55.52	-32.84	AVG	P
2	0.1635	30.84	11.18	42.02	65.28	-23.26	QP	P
3	0.3435	19.96	11.34	31.30	59.12	-27.82	QP	P
4	0.3525	7.22	11.33	18.55	48.90	-30.35	AVG	P
5	0.5010	20.30	11.30	31.60	56.00	-24.40	QP	P
6	0.5100	9.59	11.30	20.89	46.00	-25.11	AVG	P
7	1.4144	5.33	11.34	16.67	46.00	-29.33	AVG	P
8	1.4234	17.57	11.34	28.91	56.00	-27.09	QP	P
9	16.1835	16.49	11.41	27.90	60.00	-32.10	QP	P
10	16.1835	11.50	11.41	22.91	50.00	-27.09	AVG	P
11	25.5345	17.90	11.48	29.38	60.00	-30.62	QP	P
12	26.0430	6.45	11.49	17.94	50.00	-32.06	AVG	P

**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		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1545	32.11	11.15	43.26	65.75	-22.49	QP	P
2	0.1545	9.61	11.15	20.76	55.75	-34.99	AVG	P
3	0.2265	26.15	11.27	37.42	62.58	-25.16	QP	P
4	0.2355	10.39	11.27	21.66	52.25	-30.59	AVG	P
5	0.5144	21.14	11.30	32.44	56.00	-23.56	QP	P
6	0.5144	10.02	11.30	21.32	46.00	-24.68	AVG	P
7	1.1400	17.70	11.22	28.92	56.00	-27.08	QP	P
8	1.1400	6.57	11.22	17.79	46.00	-28.21	AVG	P
9	12.0390	18.87	11.44	30.31	60.00	-29.69	QP	P
10	12.0390	12.16	11.44	23.60	50.00	-26.40	AVG	P
11	26.6235	19.60	11.64	31.24	60.00	-28.76	QP	P
12	27.3705	9.84	11.66	21.50	50.00	-28.50	AVG	P

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



## 5. RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 1GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	

### 5.1 Radiated Emission Limits

#### Limits for frequency below 30MHz

Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.490	2400/F(kHz)	300	Quasi-peak Value
0.490-1.705	24000/F(kHz)	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

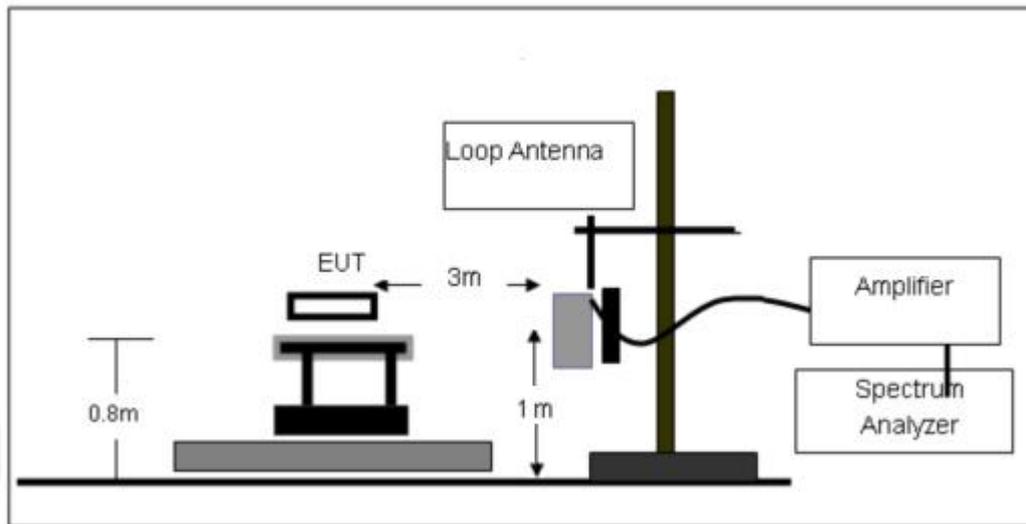
#### Limits for frequency Above 30MHz

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.00	Quasi-peak Value
88MHz-216MHz	43.50	Quasi-peak Value
216MHz-960MHz	46.00	Quasi-peak Value
960MHz-1GHz	54.00	Quasi-peak Value
Above 1GHz	54.00	Average Value
	74.00	Peak Value

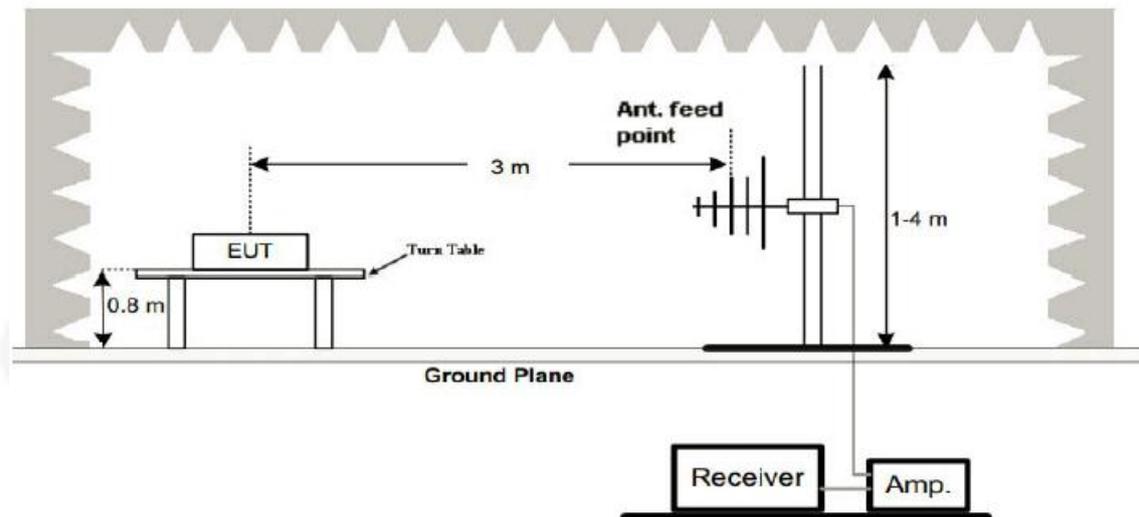


## 5.2 Anechoic Chamber Test Setup Diagram

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



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.

## 5.3 Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

## 5.4 DEVIATION FROM TEST STANDARD

No deviation



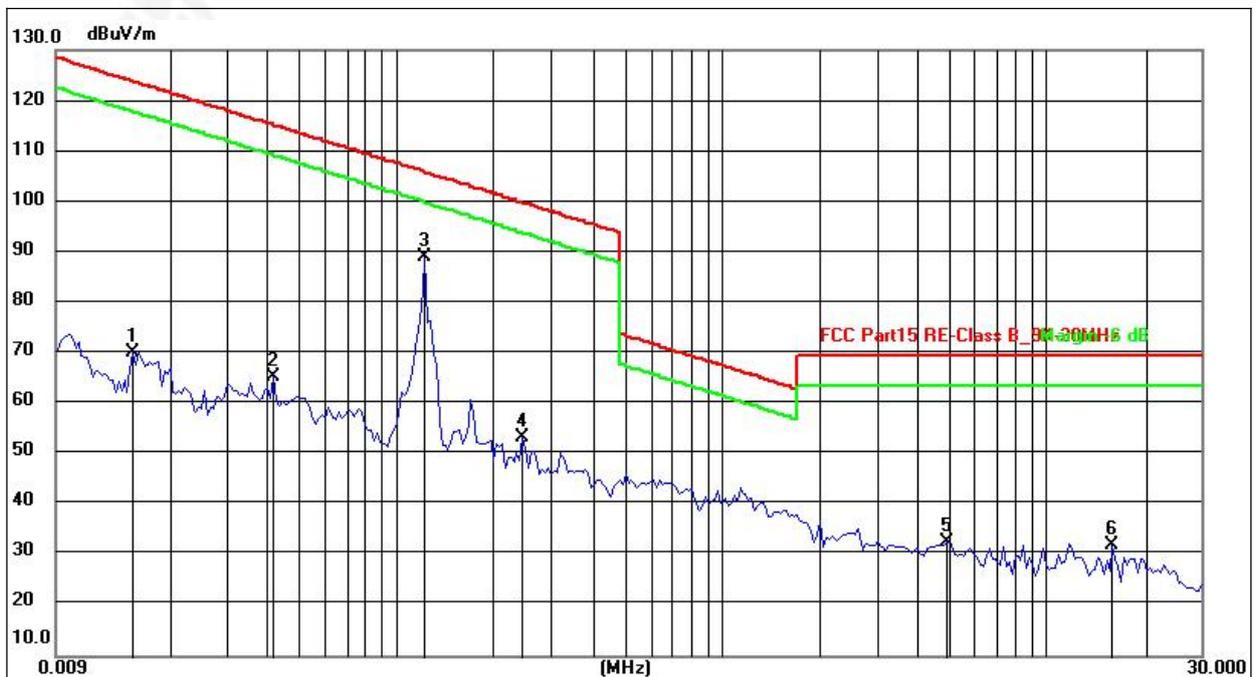
### 5.5 Test Result

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

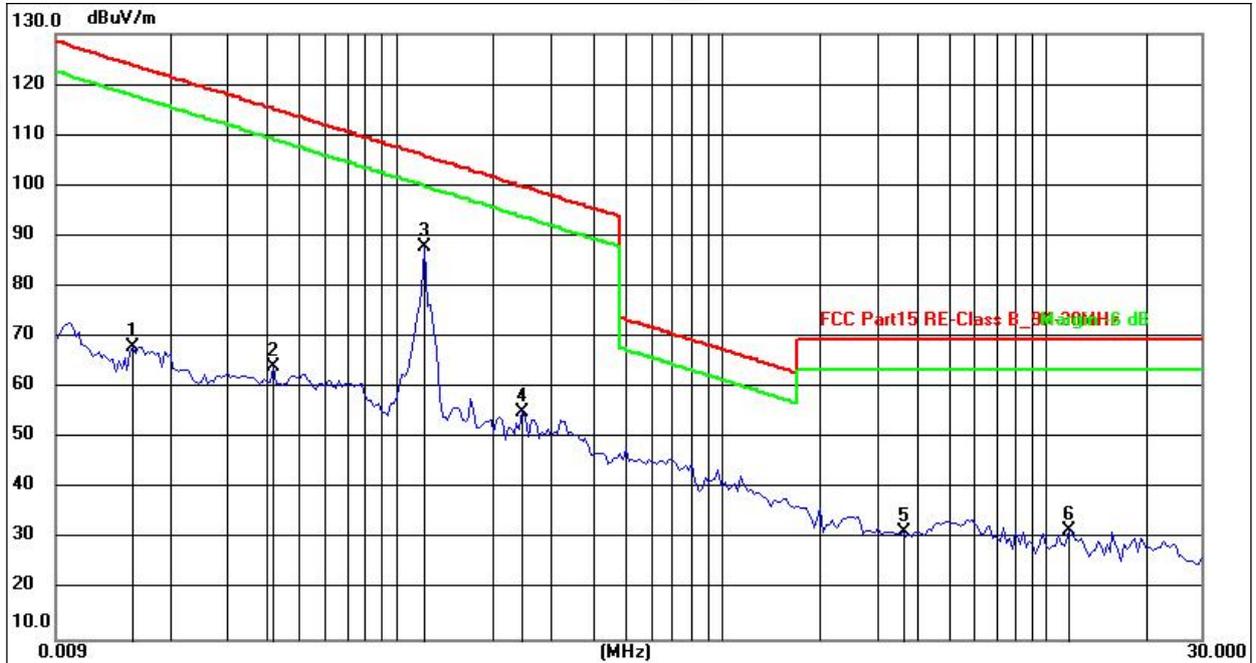
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	coaxial
Test Voltage:	DC 5V	Test Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0154	49.57	20.50	70.07	123.85	-53.78	peak
2	0.0420	45.33	19.94	65.27	115.14	-49.87	peak
3	0.1227	69.03	19.90	88.93	105.83	-16.90	peak
4	0.2452	33.20	20.10	53.30	99.81	-46.51	peak
5	4.9348	13.09	19.47	32.56	69.54	-36.98	peak
6	15.9991	13.20	18.82	32.02	69.54	-37.52	peak



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	coplaner
Test Voltage:	DC 5V	Test Mode:	Mode 1



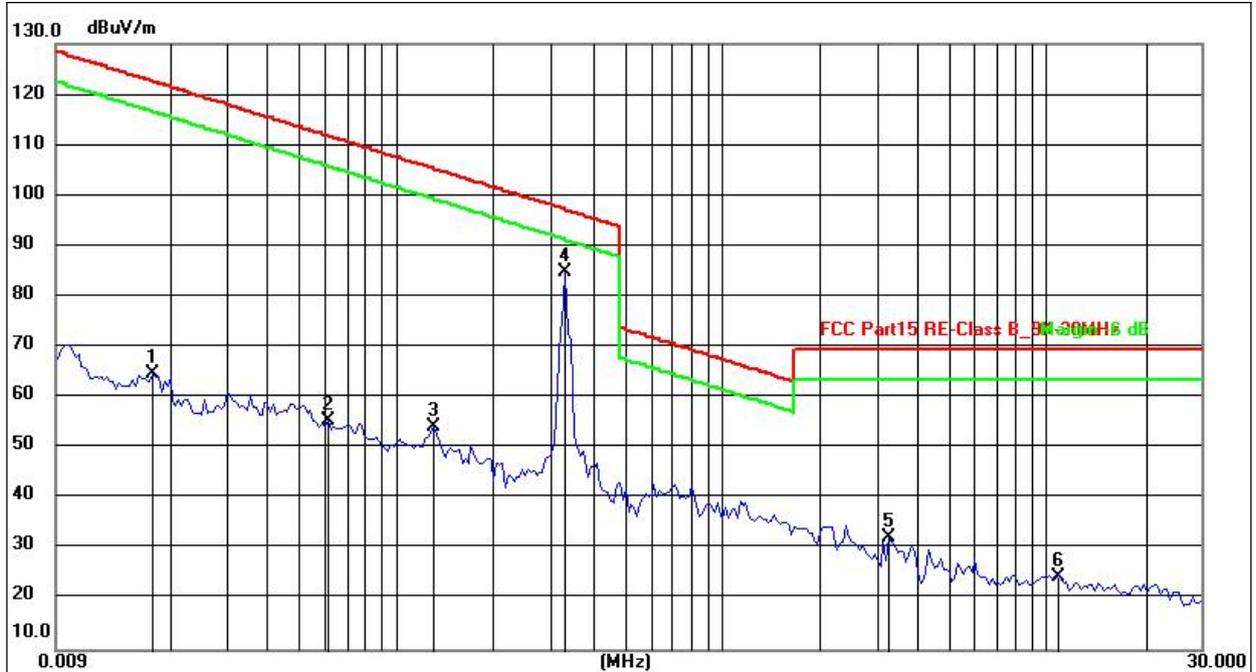
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	0.0154	47.57	20.50	68.07	123.85	-55.78	peak
2	0.0420	44.33	19.94	64.27	115.14	-50.87	peak
3	0.1227	68.03	19.90	87.93	105.83	-17.90	peak
4	0.2452	35.20	20.10	55.30	99.81	-44.51	peak
5	3.6404	11.76	19.59	31.35	69.54	-38.19	peak
6	11.8025	12.82	18.98	31.80	69.54	-37.74	peak

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.



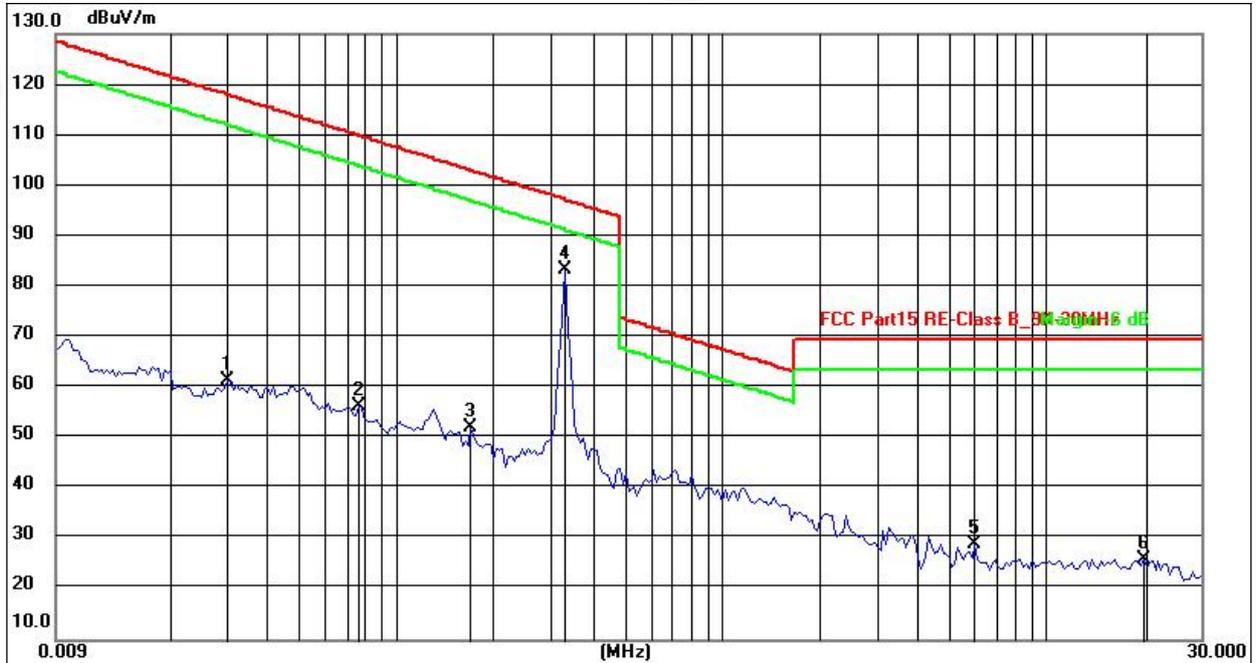
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	coaxial
Test Voltage:	DC 5V	Test Mode:	Mode 2



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0177	44.28	20.47	64.75	122.65	-57.90	peak
2	0.0616	35.66	19.81	55.47	111.81	-56.34	peak
3	0.1307	34.27	19.94	54.21	105.28	-51.07	peak
4	0.3279	64.59	20.13	84.72	97.29	-12.57	peak
5	3.2894	12.82	19.63	32.45	69.54	-37.09	peak
6	10.8833	5.71	18.99	24.70	69.54	-44.84	peak



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	coplaner
Test Voltage:	DC 5V	Test Mode:	Mode 2



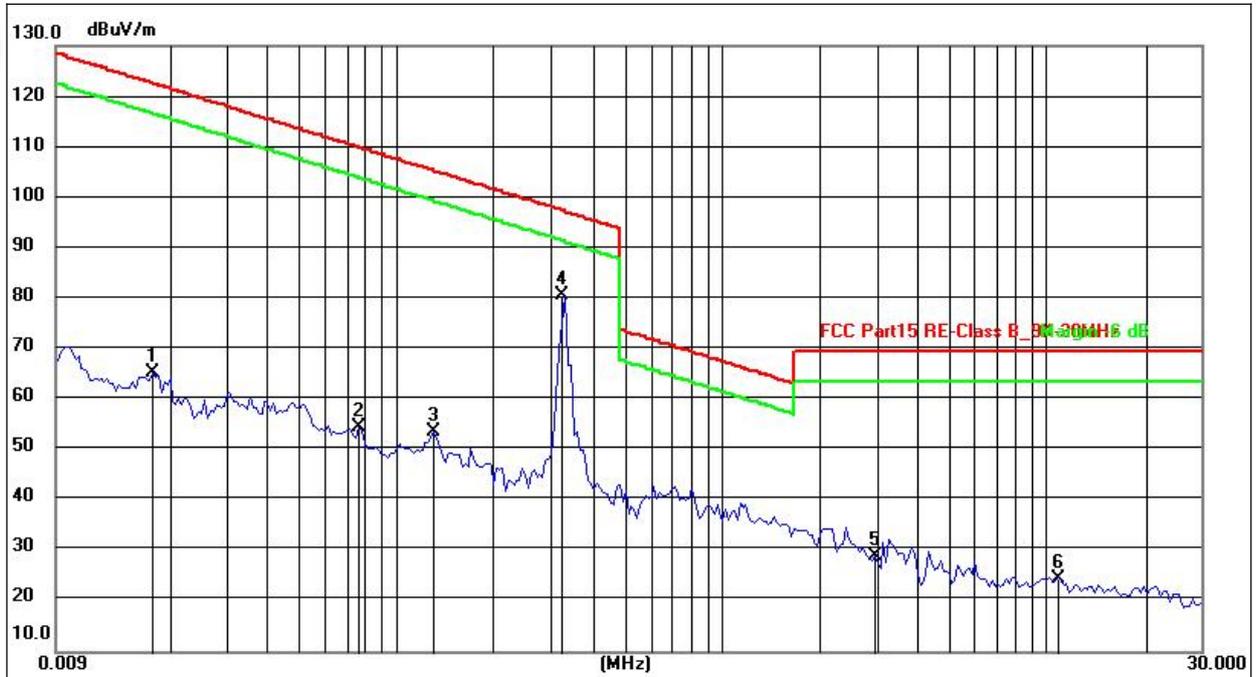
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0303	41.31	20.21	61.52	117.98	-56.46	peak
2	0.0772	36.63	19.85	56.48	109.85	-53.37	peak
3	0.1703	32.18	20.08	52.26	102.98	-50.72	peak
4	0.3279	63.09	20.13	83.22	97.29	-14.07	peak
5	6.0442	9.70	19.37	29.07	69.54	-40.47	peak
6	19.9969	7.49	18.42	25.91	69.54	-43.63	peak

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.



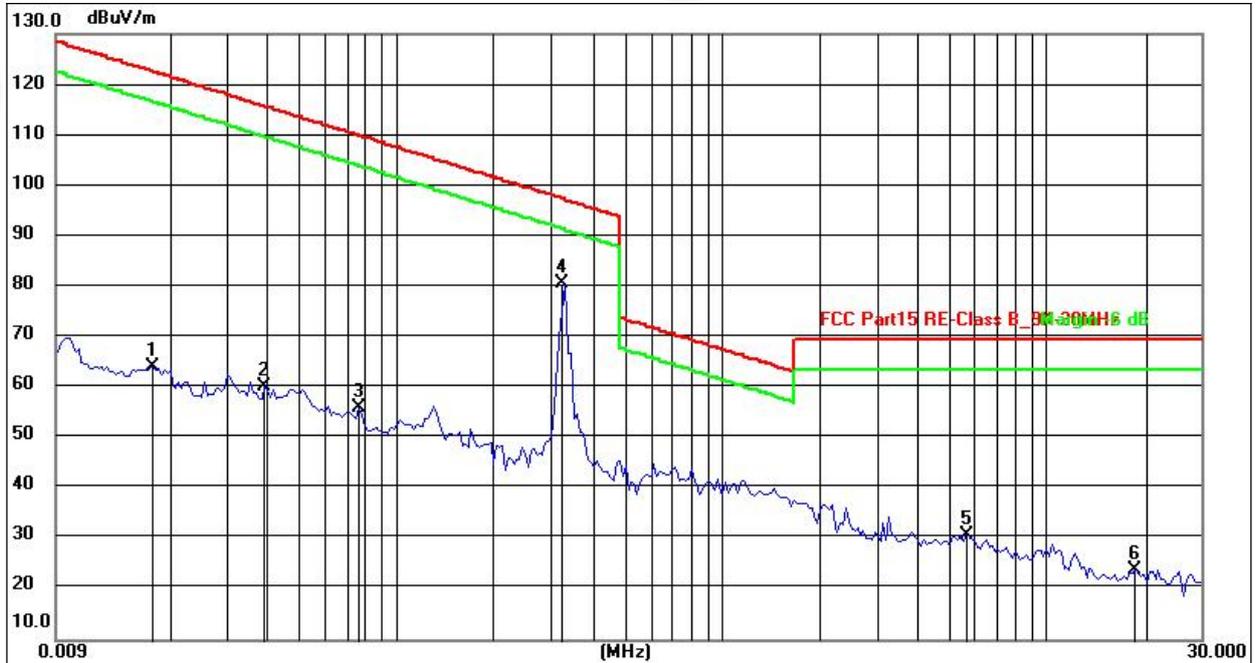
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	coaxial
Test Voltage:	DC 5V	Test Mode:	Mode 3



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0177	44.78	20.47	65.25	122.65	-57.40	AVG
2	0.0772	34.63	19.85	54.48	109.85	-55.37	AVG
3	0.1307	33.77	19.94	53.71	105.28	-51.57	AVG
4	0.3250	60.59	20.13	80.72	97.37	-16.65	AVG
5	2.9723	9.30	19.65	28.95	69.54	-40.59	QP
6	10.8833	5.71	18.99	24.70	69.54	-44.84	QP



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	coplaner
Test Voltage:	DC 5V	Test Mode:	Mode 3



No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	0.0177	43.78	20.47	64.25	122.65	-58.40	AVG
2	0.0395	40.15	19.99	60.14	115.67	-55.53	AVG
3	0.0772	36.13	19.85	55.98	109.85	-53.87	AVG
4	0.3250	60.59	20.13	80.72	97.37	-16.65	AVG
5	5.6875	11.42	19.41	30.83	69.54	-38.71	QP
6	18.8170	5.34	18.54	23.88	69.54	-45.66	QP

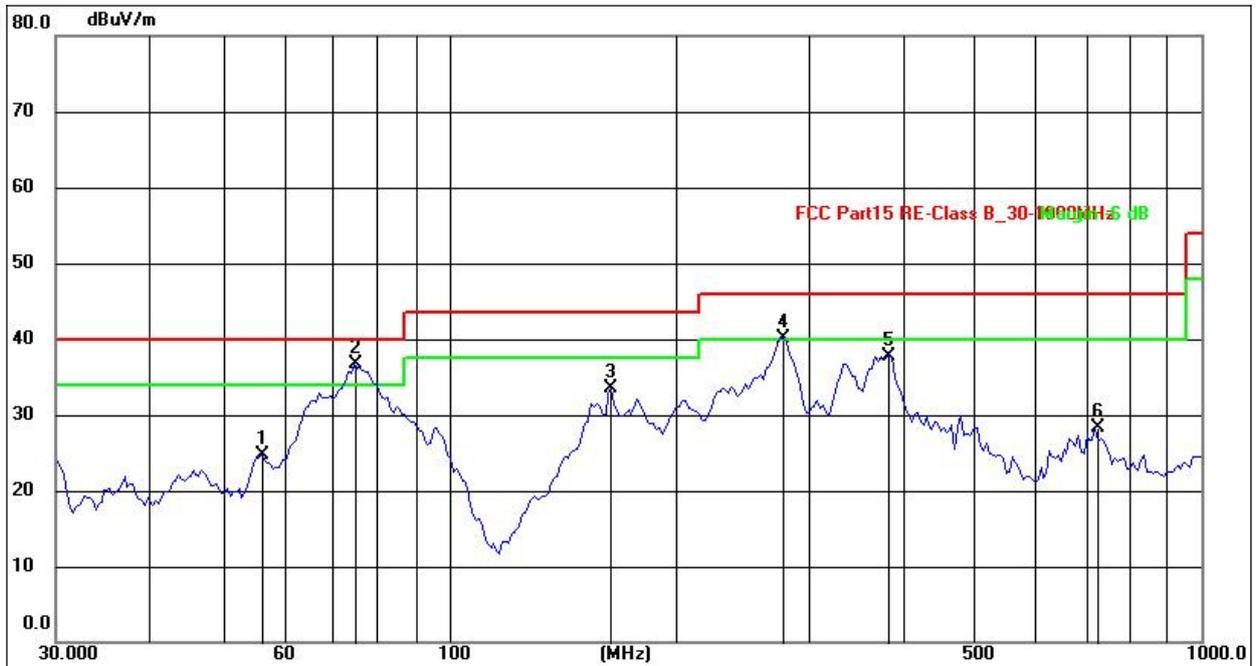
Remarks:

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.



30MHz-1GHz

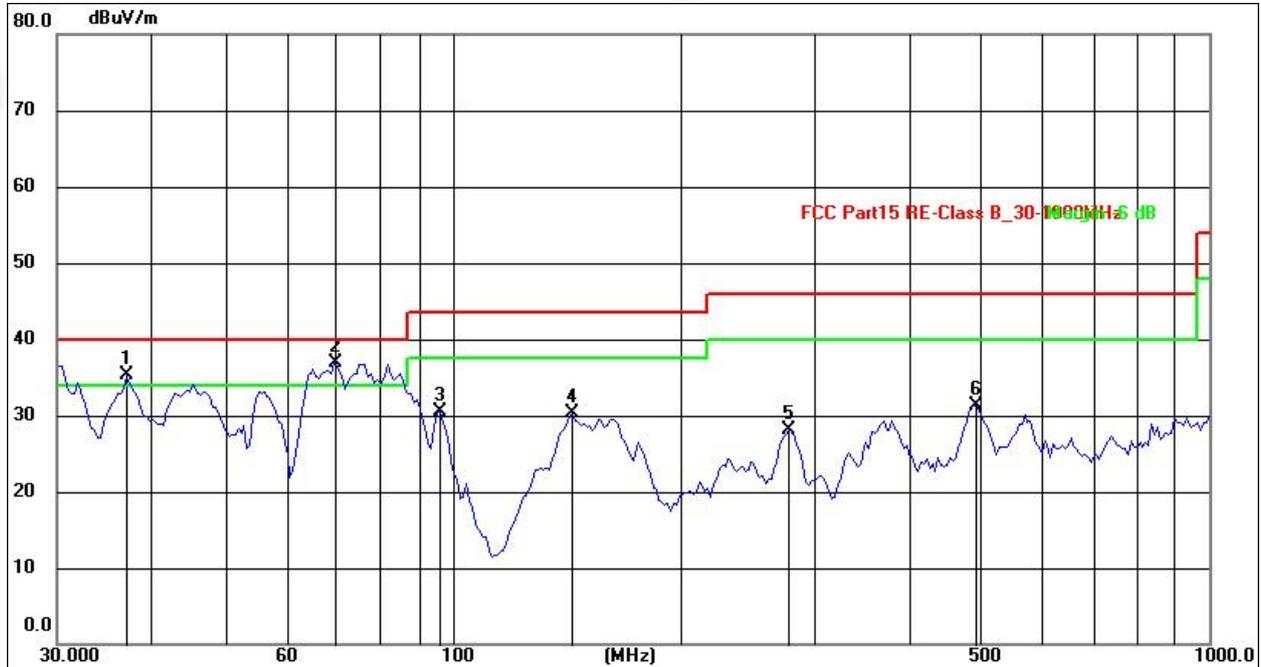
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 5V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	56.3948	38.96	-14.17	24.79	40.00	-15.21	QP
2	74.6569	54.81	-18.09	36.72	40.00	-3.28	QP
3	164.3301	49.96	-16.54	33.42	43.50	-10.08	QP
4	278.0668	54.62	-14.46	40.16	46.00	-5.84	QP
5	384.6055	54.42	-16.63	37.79	46.00	-8.21	QP
6	722.9924	35.01	-6.77	28.24	46.00	-17.76	QP



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.0248	52.59	-17.31	35.28	40.00	-4.72	QP
2	69.6005	56.14	-19.31	36.83	40.00	-3.17	QP
3	96.2672	51.88	-21.32	30.56	43.50	-12.94	QP
4	144.0819	51.09	-20.78	30.31	43.50	-13.19	QP
5	278.0668	47.17	-19.01	28.16	46.00	-17.84	QP
6	487.3151	43.36	-12.02	31.34	46.00	-14.66	QP

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.



## 6. BANDWIDTH TEST

1. Set RBW = 30 Hz.
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

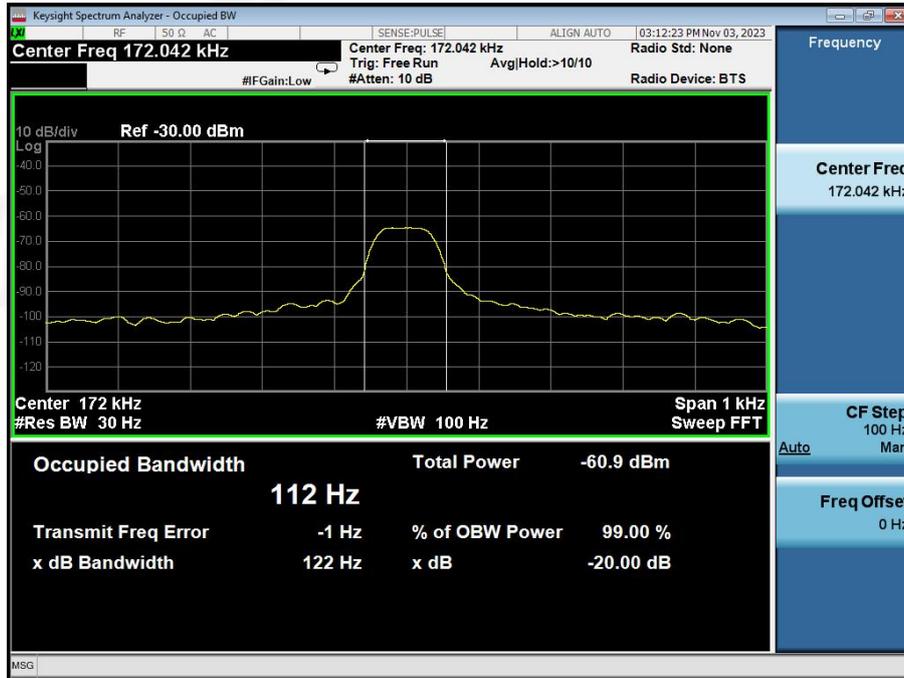
### TEST SETUP





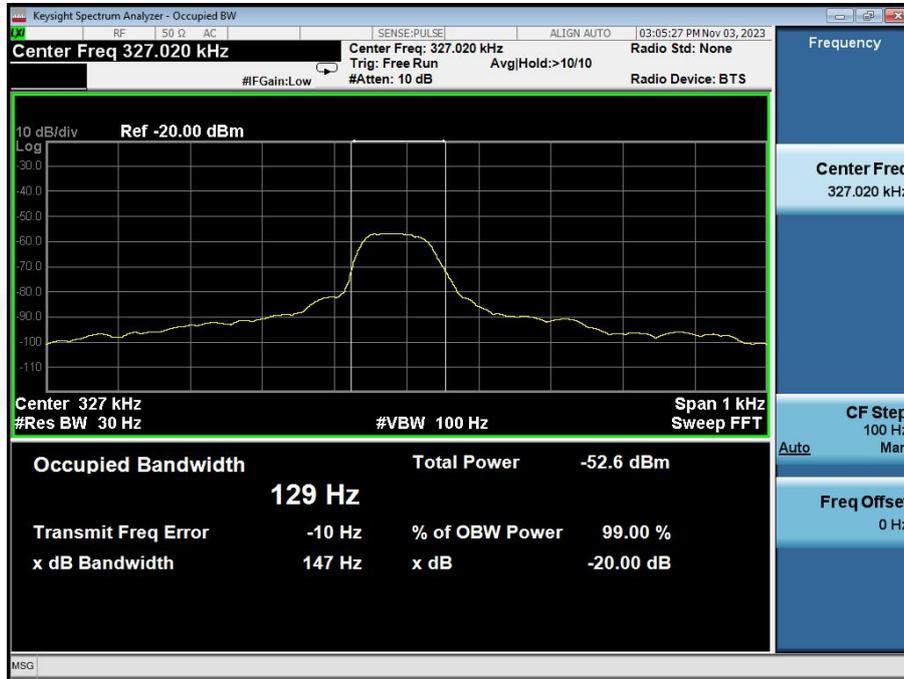
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa		

Test Coil	Frequency (KHz)	20dB bandwidth (Hz)	Result
Phone	172.042	122	Pass





Test Coil	Frequency (KHz)	20dB bandwidth (Hz)	Result
Earphone	327.020	147	Pass



Test Coil	Frequency (KHz)	20dB bandwidth (Hz)	Result
Watch	326.900	941	Pass





## 7. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
EUT Antenna:	
The antenna is Loop antenna, the best case gain of the antennas is 0dBi, reference to the appendix II for details	



## 8. TEST SETUP PHOTO

Reference to the appendix I for details.

## 9. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

\*\*\*\*\* END OF REPORT \*\*\*\*\*