CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

PD25W charger

MODEL NUMBER: W001, W002

REPORT NUMBER: E04A25081100F00101

ISSUE DATE: September 11, 2025

FCC ID: 2BR56-W001

Prepared for

Weipusheng (Shenzhen) Technology Co., Ltd.

Room 402, Building C1, No. 11, North Zone, Shangxue Technology City, Xinxue Community, Bantian Street, Longgang District, Shenzhen City, Guangdong Province, China

Prepared by

Guangdong Global Testing Technology Co., Ltd.

Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	September 11, 2025	Initial Issue	

Summary of Test Results

Test Item	Limit/Requirement	Result
Antenna Requirement	FCC Part 15.203	Pass
AC Power Line Conducted Emission	FCC Part 15.207	Pass
20dB Bandwidth	FCC Part 15.215	Pass
Radiated Emission	FCC Part 15.205/15.209	Pass

Note:
1. N/A: In this whole report not applicable.

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	Weipusheng (Shenzhen) Technology Co., Ltd.
Address:	Room 402, Building C1, No. 11, North Zone, Shangxue Technology City, Xinxue Community, Bantian Street, Longgang District, Shenzhen City, Guangdong Province, China

Manufacturer Information

Company Name:	Weipusheng (Shenzhen) Technology Co., Ltd.
Address:	Room 402, Building C1, No. 11, North Zone, Shangxue Technology City, Xinxue Community, Bantian Street, Longgang District, Shenzhen City, Guangdong Province, China

EUT Information

Product Description:	PD25W charger
Model:	W001
Series Model:	W002
Brand:	/
Sample Received Date:	September 4, 2025
Sample Status:	Normal
Sample ID:	A25081100 001
Date of Tested:	September 4, 2025 to September 9, 2025

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 FCC PART 15 SUBPART C	**Pass**

Prepared By:

Ellie Yang

Project Engineer

Approved By:

Shawn Wen

Laboratory Manager

Checked By:

Alan He

Laboratory Leader

2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 6947.01)** Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1343)** Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules **ISED (Company No.: 30714)** Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Items	k	Uncertainty
20dB Emission Bandwidth	2	±9.2 PPM
Temperature	2	±0.5℃
Humidity	2	±3%
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.		

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions from the AC mains power ports (AMN)	150 kHz ~ 30 MHz	2	3.37
Radiated emissions	9 kHz ~ 30 MHz	2	4.16
Radiated emissions	30 MHz ~ 1 GHz	2	3.79
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		PD25W charger
Model		W001
Series Model		W002
Model Difference		Note: As the declaration of the manufacturer, the difference of the models are model name, others are the same.
Hardware Version		V1.0
Software Version		V1.0
Ratings		Input: AC 100-240V 50/60Hz 0.6A MAX Output: USB A(QC2.0/3.0):5V ⎓ 3A / 9V ⎓ 2A / 12V⎓ 1.5A USB C(PD2.0/3.0):5V ⎓ 3A / 9V ⎓ 2.22A / 12V ⎓ 1.67A / 20V ⎓ 1A Apple Watch & Earphone Wireless Charge: 2.5W Total Output: USB A+USB C: 5V ⎓ 3A + Wireless Charge
Power Supply	AC	120V / 60Hz
Operation Mode		Wireless Charging
Operating Frequency		110-205KHz for Earphone charging 300-350KHz for Watch charging
Wireless Charging Power		2.5W for charging
Modulation Technique		ASK
Antenna Type		Coil Antenna

5.2. TEST MODE

Test Mode	Description
M01	The EUT charges 2.5W load (110-205KHz)
M02	The EUT charges 2.5W load (300-350KHz)

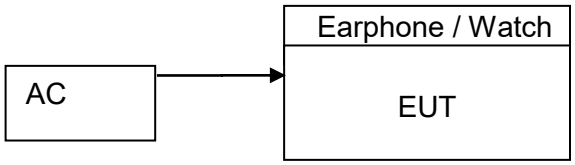
5.3. SUPPORT UNITS FOR SYSTEM TEST

The following support units or accessories were used to form a representative test configuration during the tests.

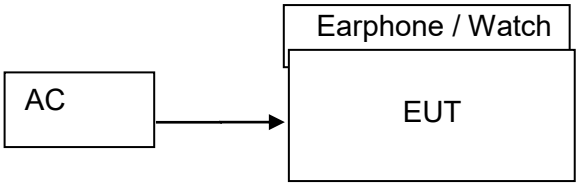
No.	Equipment	Manufacturer	Model No.	Serial No.	Note
1	Earphone	momax	X5	N/A	GTG Support
2	Watch	Apple Inc.	A1859	N/A	GTG Support

5.4. SETUP DIAGRAM

AC conducted emission:



Radiated Emission:



6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Radiated emissions below 1GHz					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Last Cal.**	**Due Date**
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2025/08/23	2028/08/22
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2024/09/14	2025/09/13
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2024/09/14	2025/09/13
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2024/09/14	2025/09/13
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2024/09/14	2025/09/13
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09
Biconilog Antenna	ETS	3142E	00243646	2025/02/22	2028/02/21
Loop Antenna	ETS	6502	243668	2025/02/22	2028/02/21
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A

Test Equipment of Conducted emissions					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Last Cal.**	**Due Date**
Shielded Room	CHENG YU	8m*5m*4m	N/A	2022/10/29	2025/10/28
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2024/09/14	2025/09/13
LISN/AMN	Rohde & Schwarz	ENV216	102843	2024/09/14	2025/09/13
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2024/09/14	2025/09/13
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

7. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz		
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
		Quasi-Peak
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz			
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	Field Strength Limit (dBuV/m) at 3 m
			Quasi-Peak
0.009-0.490	2400/F(kHz)	300	128.5-93.8
0.490-1.705	24000/F(kHz)	30	73.8-63.0
1.705-30.0	30	30	69.5

FCC Restricted bands of operation refer to FCC §15.205 (a):

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			

Note:[1]Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
[2]Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.

5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.

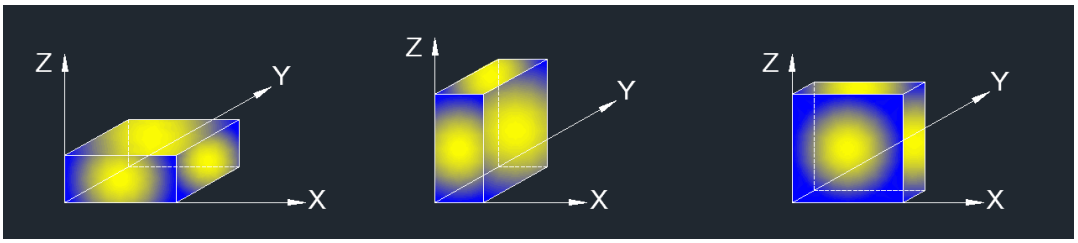
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

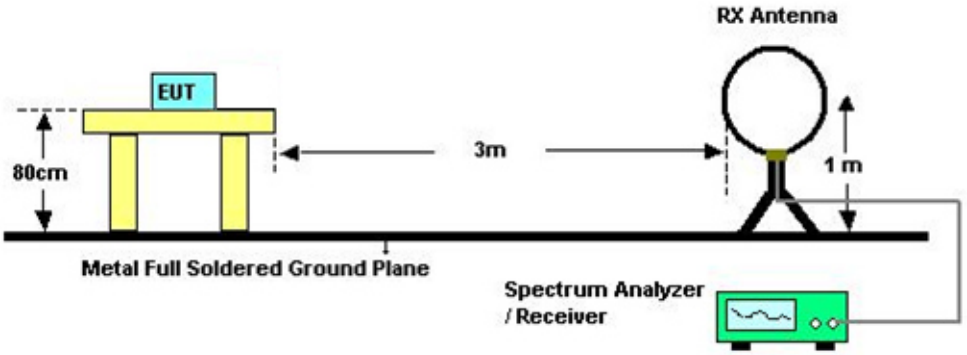
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

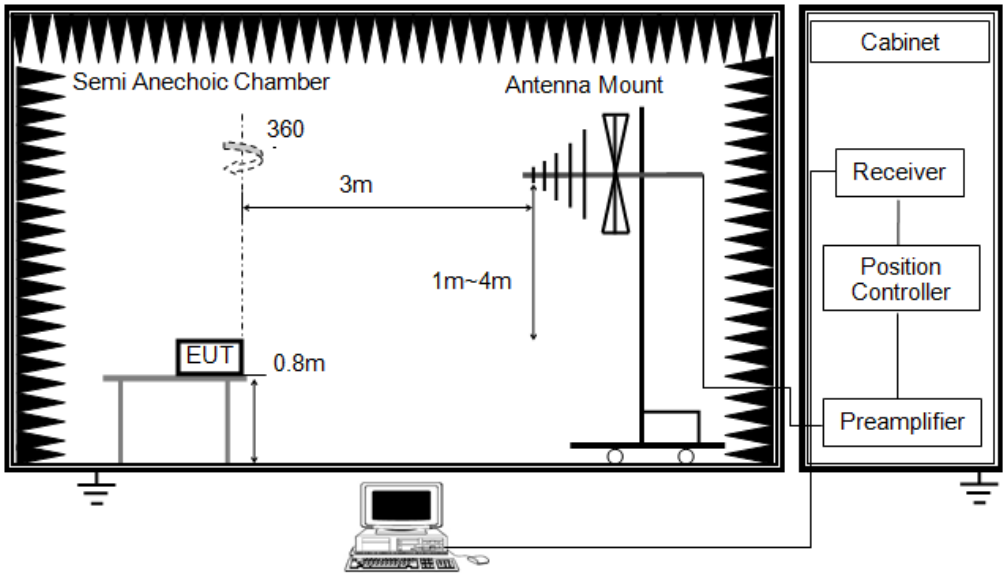
X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST SETUP


RX Antenna
EUT
80cm
3m
1 m
Metal Full Soldered Ground Plane
Spectrum Analyzer
/ Receiver


Semi Anechoic Chamber
Antenna Mount
360
3m
1m~4m
EUT
0.8m
Cabinet
Receiver
Position
Controller
Preamplifier

TEST ENVIRONMENT

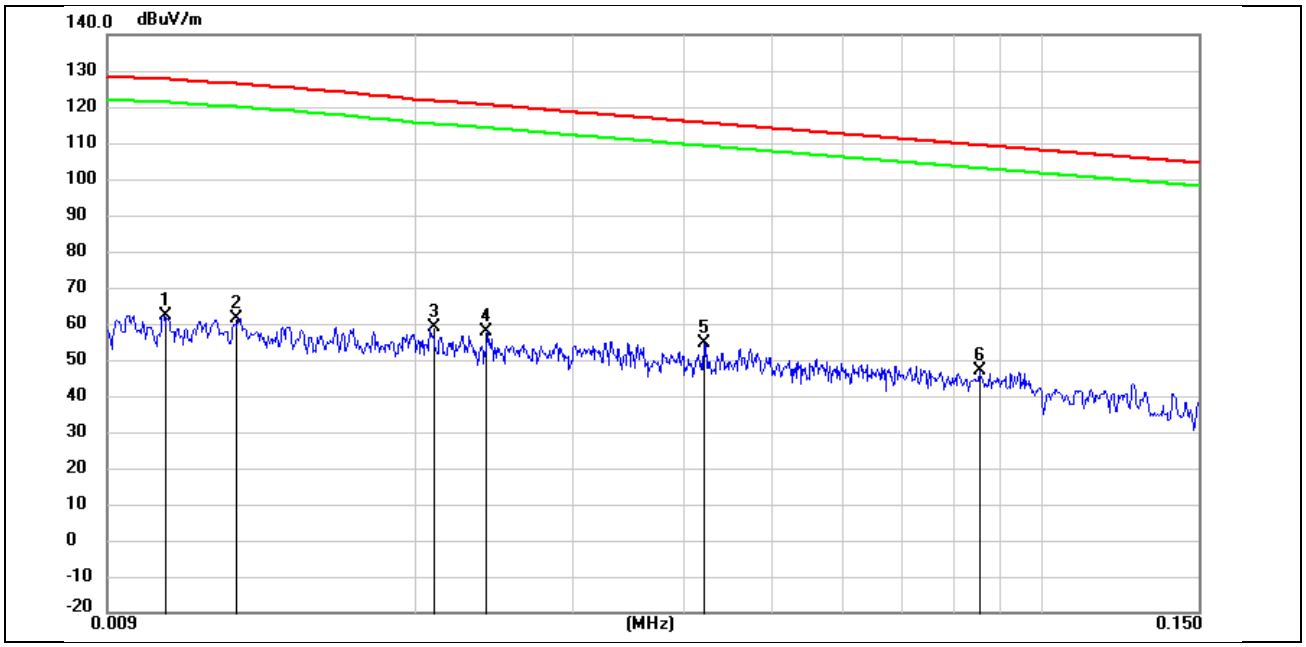
Temperature	23.9℃	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

7.1. RADIATED SPURIOUS EMISSION

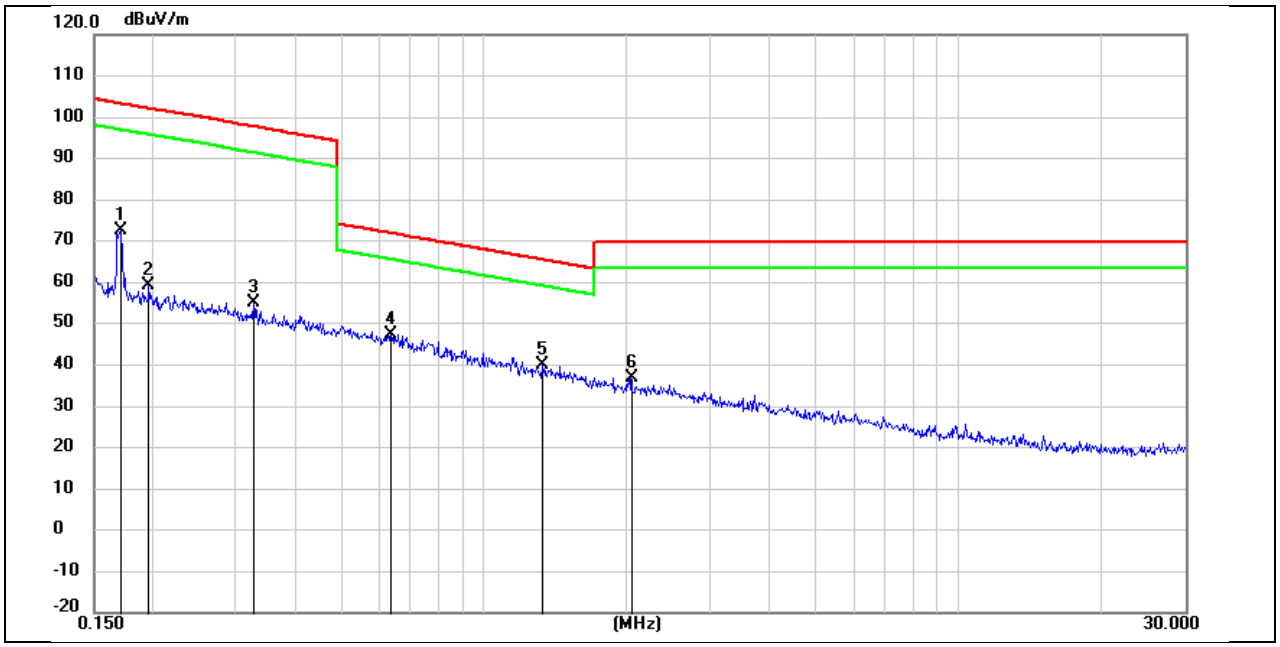
Undesirable radiated Spurious Emission below 30MHz (9KHz to 30MHz)

All modes have been tested and the worst result as bellow:



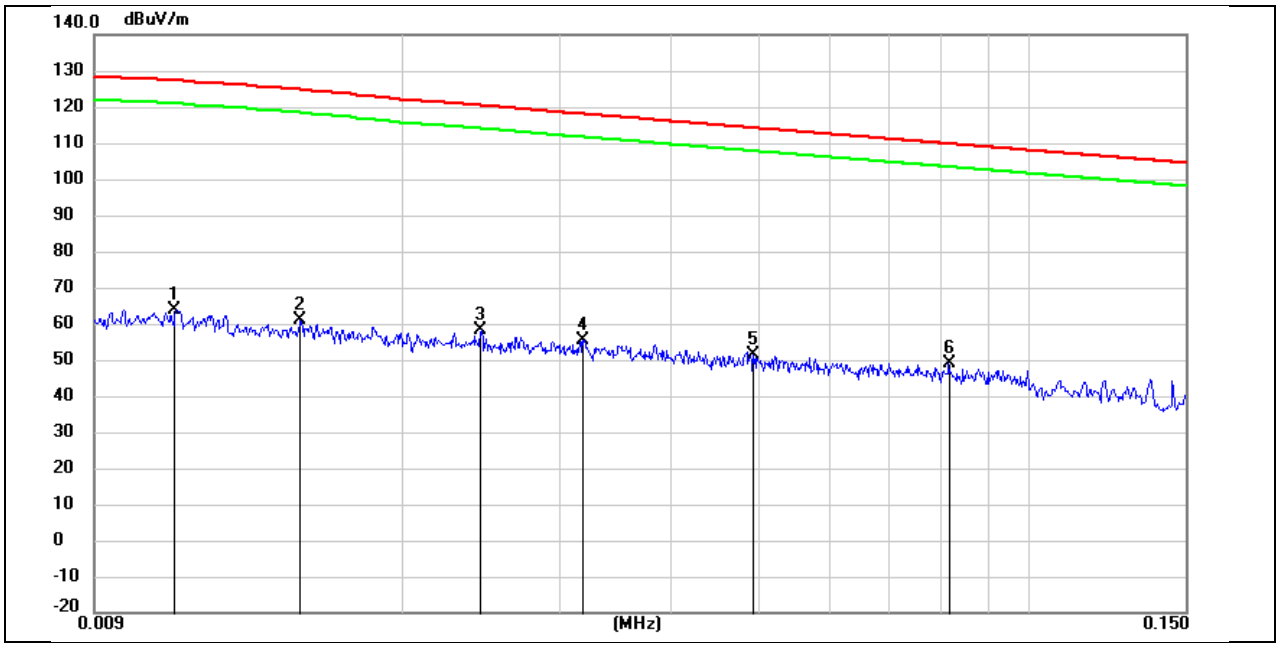
Mode:	M01	Antenna: coaxial

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0104	44.01	18.38	62.39	127.36	-64.97	peak
2	0.0126	43.96	17.42	61.38	126.03	-64.65	peak
3	0.0208	45.02	14.09	59.11	121.30	-62.19	peak
4	0.0240	44.20	13.80	58.00	120.17	-62.17	peak
5 *	0.0420	42.35	12.19	54.54	115.17	-60.63	peak
6	0.0851	36.07	10.90	46.97	109.02	-62.05	peak



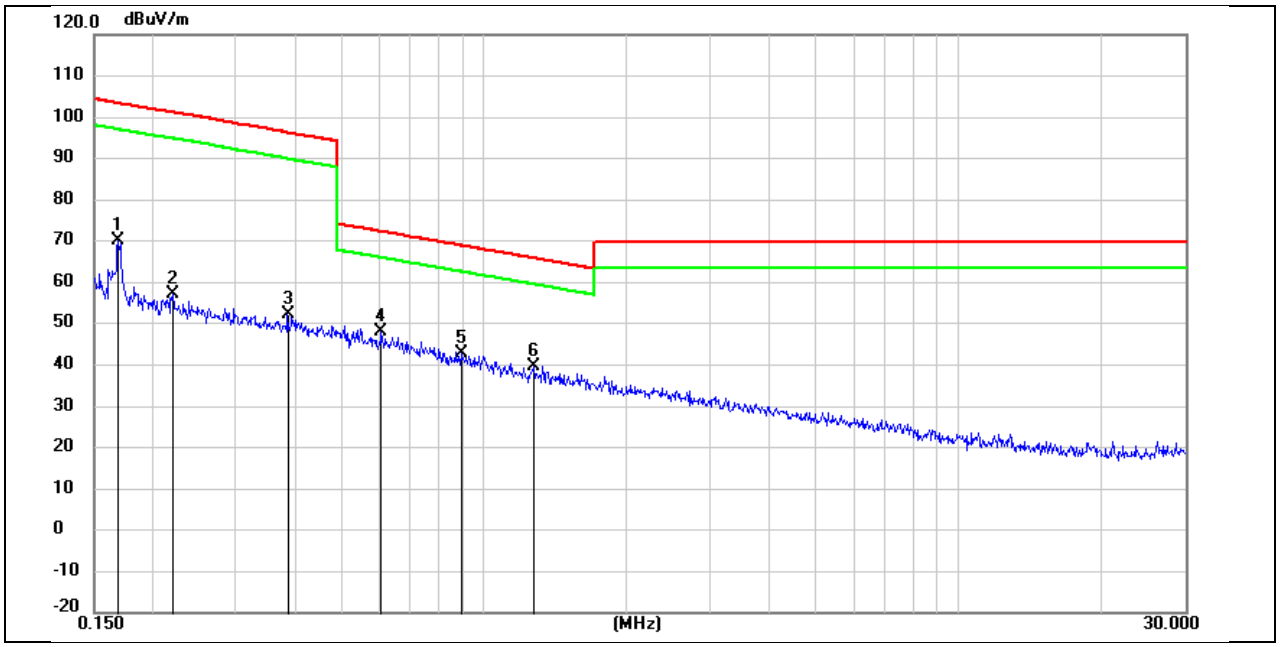
Mode:	M01	Antenna: coaxial

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1720	61.98	10.67	72.65	102.90	-30.25	peak
2	0.1955	48.48	10.64	59.12	101.78	-42.66	peak
3	0.3251	44.49	10.57	55.06	97.43	-42.37	peak
4 *	0.6338	36.89	10.52	47.41	71.59	-24.18	peak
5	1.3238	29.37	10.58	39.95	65.18	-25.23	peak
6	2.0441	26.30	10.63	36.93	69.54	-32.61	peak



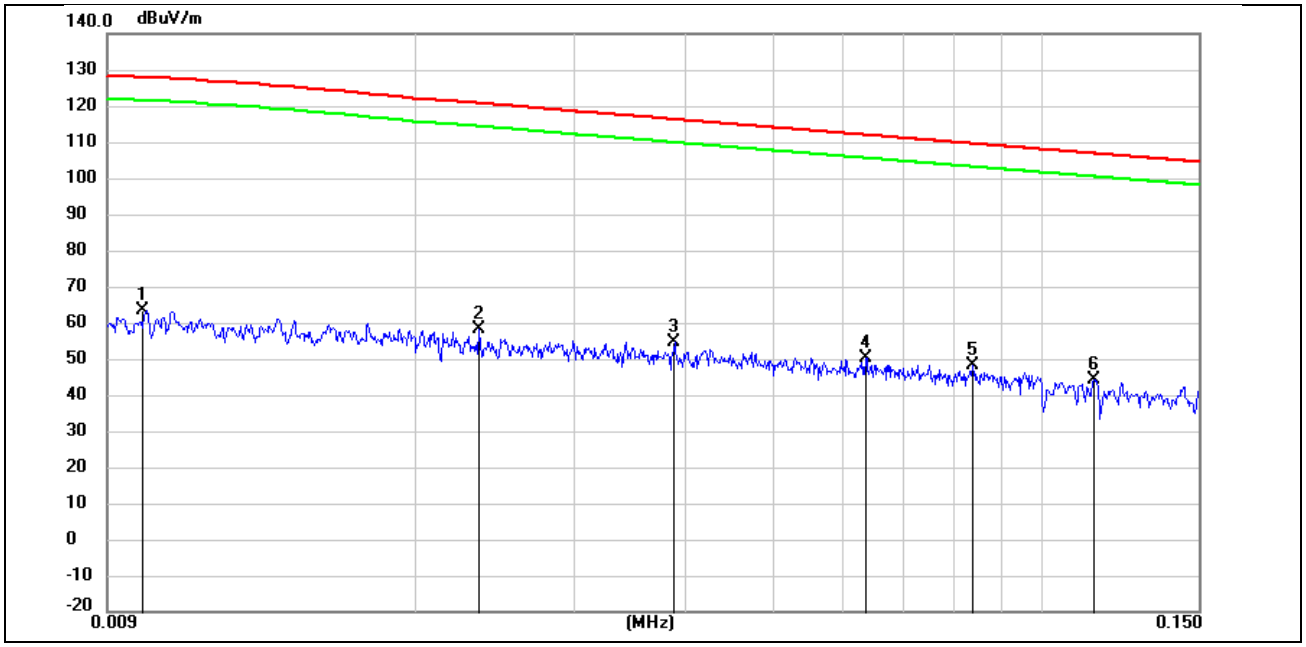
Mode:	M01	Antenna: coplanar

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0111	45.56	18.08	63.64	126.94	-63.30	peak
2	0.0153	44.66	16.23	60.89	124.41	-63.52	peak
3	0.0244	44.39	13.76	58.15	120.03	-61.88	peak
4	0.0317	42.36	13.11	55.47	117.64	-62.17	peak
5	0.0492	39.90	11.54	51.44	113.78	-62.34	peak
6 *	0.0817	37.88	10.93	48.81	109.37	-60.56	peak



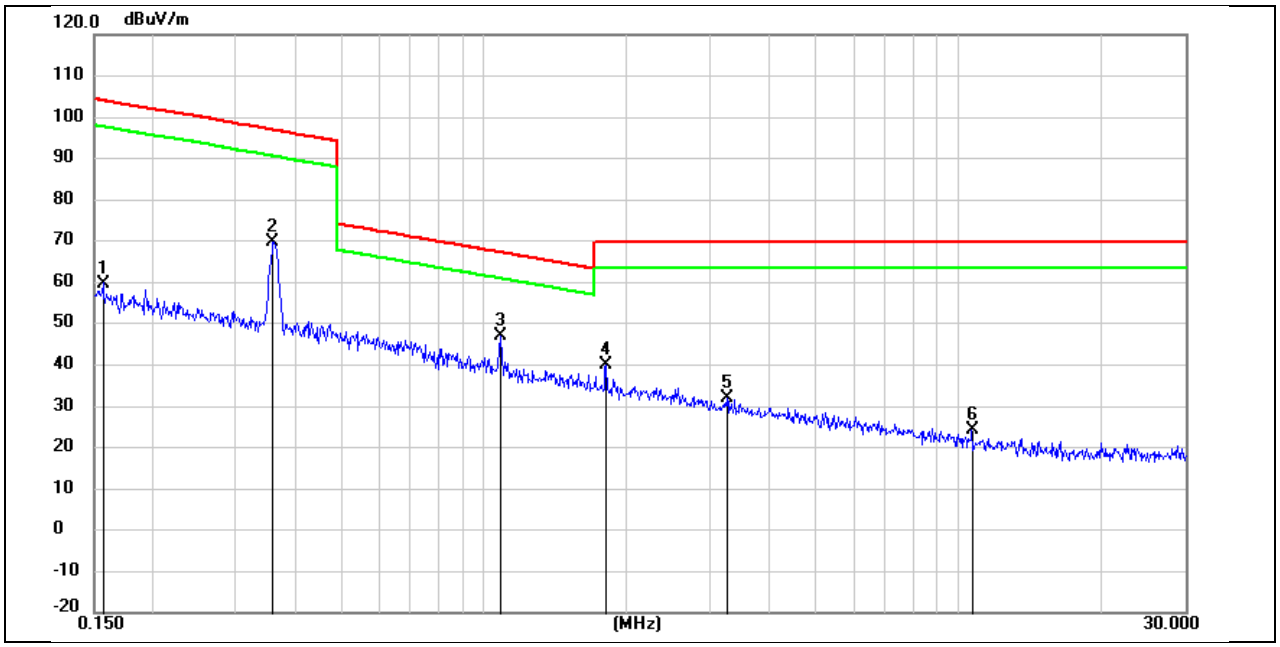
Mode:	M01	Antenna: coplanar

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1685	59.38	10.67	70.05	103.08	-33.03	peak
2	0.2197	46.48	10.62	57.10	100.89	-43.79	peak
3	0.3852	41.67	10.55	52.22	95.93	-43.71	peak
4 *	0.6043	37.41	10.52	47.93	71.98	-24.05	peak
5	0.8897	32.14	10.54	42.68	68.63	-25.95	peak
6	1.2687	29.02	10.57	39.59	65.55	-25.96	peak



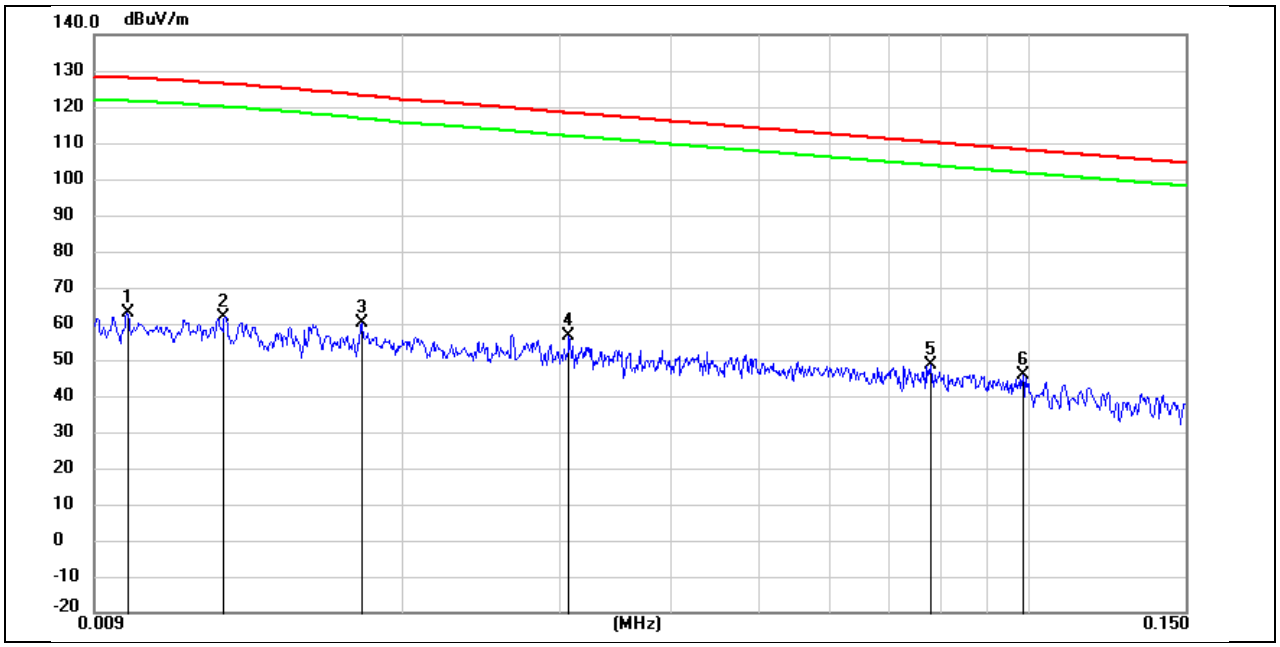
Mode:	M02	Antenna: coaxial

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0100	45.04	18.56	63.60	127.60	-64.00	peak
2	0.0235	44.49	13.85	58.34	120.35	-62.01	peak
3	0.0388	41.93	12.48	54.41	115.86	-61.45	peak
4	0.0637	39.00	11.20	50.20	111.54	-61.34	peak
5 *	0.0837	37.46	10.91	48.37	109.16	-60.79	peak
6	0.1145	33.30	10.75	44.05	106.44	-62.39	peak



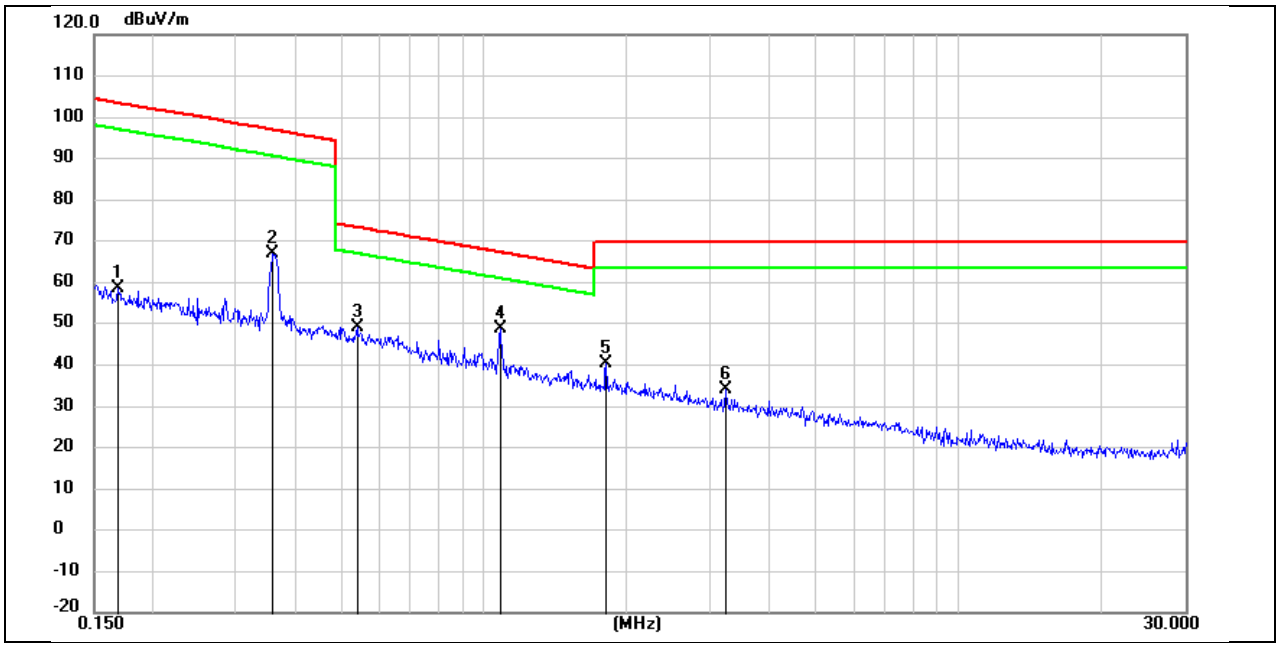
Mode:	M02	Antenna: coaxial

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1565	49.13	10.67	59.80	103.72	-43.92	peak
2	0.3596	59.19	10.56	69.75	96.57	-26.82	peak
3 *	1.0824	36.60	10.56	47.16	66.92	-19.76	peak
4	1.8000	29.45	10.62	40.07	69.54	-29.47	peak
5	3.2583	21.18	10.73	31.91	69.54	-37.63	peak
6	10.6763	13.51	10.89	24.40	69.54	-45.14	peak



Mode:	M02	Antenna: coplanar

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0098	44.21	18.63	62.84	127.64	-64.80	peak
2	0.0126	44.37	17.42	61.79	126.03	-64.24	peak
3	0.0180	45.35	15.04	60.39	122.78	-62.39	peak
4	0.0306	43.36	13.21	56.57	117.91	-61.34	peak
5 *	0.0780	37.84	10.96	48.80	109.77	-60.97	peak
6	0.0986	35.08	10.79	45.87	107.73	-61.86	peak



Mode:	M02	Antenna: coplanar

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1685	47.81	10.67	58.48	103.08	-44.60	peak
2	0.3596	56.40	10.56	66.96	96.57	-29.61	peak
3	0.5378	38.64	10.51	49.15	73.04	-23.89	peak
4 *	1.0766	38.18	10.56	48.74	66.97	-18.23	peak
5	1.8000	29.79	10.62	40.41	69.54	-29.13	peak
6	3.2240	23.32	10.73	34.05	69.54	-35.49	peak

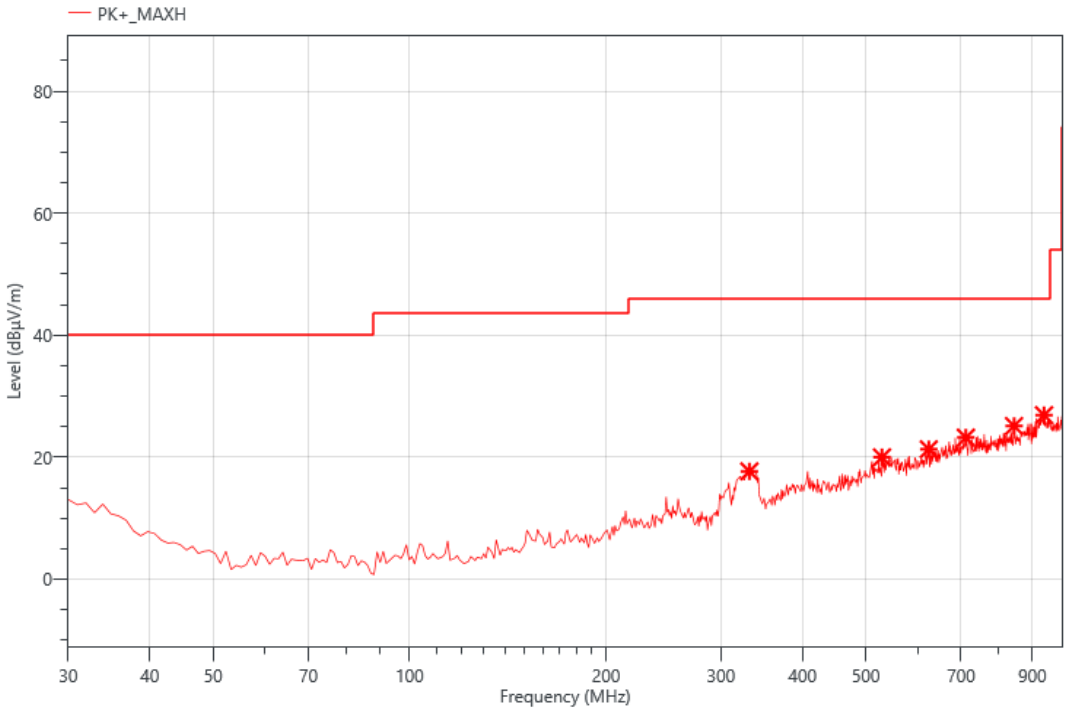
Note:
1.Measurement = Reading Level + Correct Factor.
2.Margin= Measurement - Limit.
3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)

All modes have been tested and the worst result as bellow:

Test Result

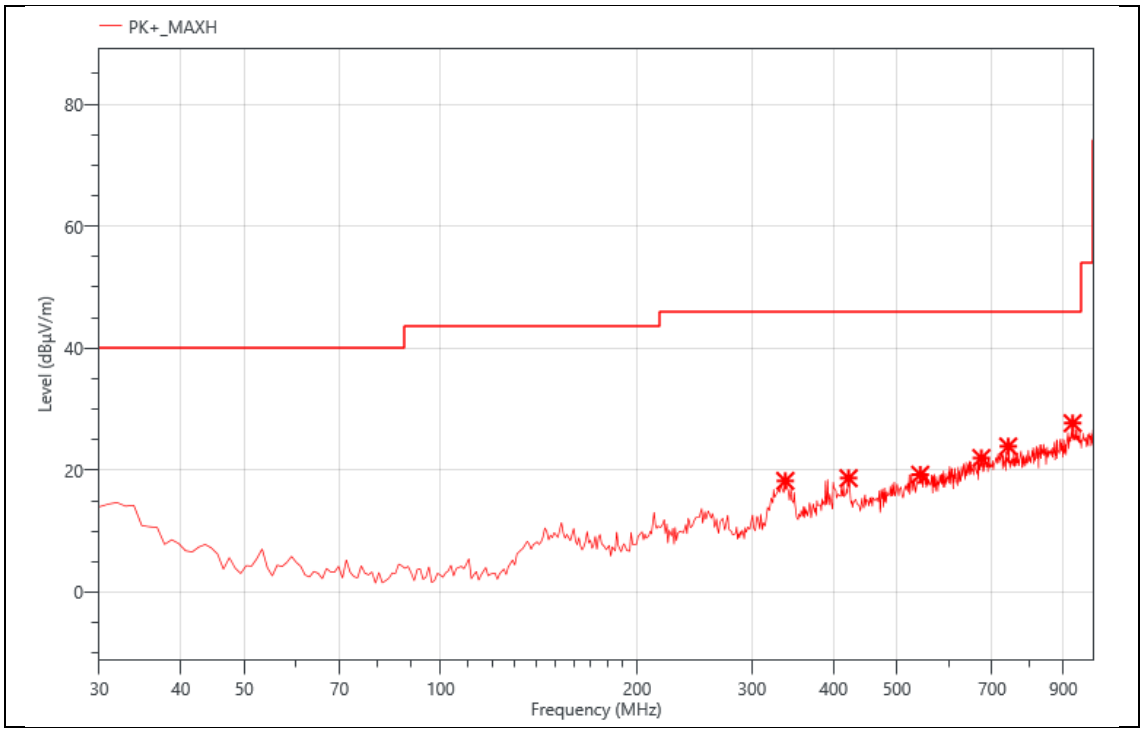
Mode:	M01
Power:	AC120V/60Hz
TE:	Berny
Date	2025/09/9
T/A/P	23.9℃/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	331.670	34.70	-17.02	17.68	46.00	28.32	PK+	H
2	529.550	30.48	-10.49	19.99	46.00	26.01	PK+	H
3	624.610	30.17	-8.87	21.30	46.00	24.70	PK+	H
4	711.910	29.86	-6.64	23.22	46.00	22.78	PK+	H
5	843.830	30.32	-5.2	25.12	46.00	20.88	PK+	H
6	937.920	29.03	-2.13	26.90	46.00	19.10	PK+	H

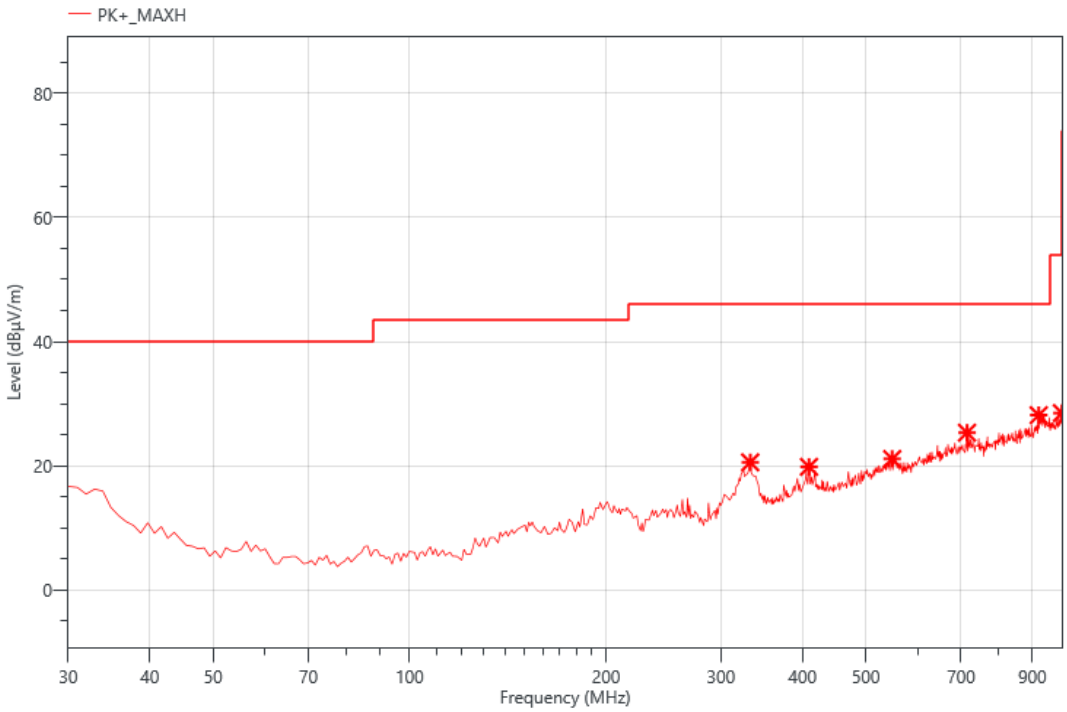
Mode:	M01
Power:	AC120V/60Hz
TE:	Berny
Date	2025/09/9
T/A/P	23.9℃/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	258.920	33.14	-18.38	14.76	46.00	31.24	PK+	H
2	327.790	42.87	-17.15	25.72	46.00	20.28	PK+	H
3	547.010	31.00	-9.64	21.36	46.00	24.64	PK+	H
4	647.890	31.43	-8.09	23.34	46.00	22.66	PK+	H
5	731.310	31.32	-6.55	24.77	46.00	21.23	PK+	H
6	936.950	30.97	-2.16	28.81	46.00	17.19	PK+	H

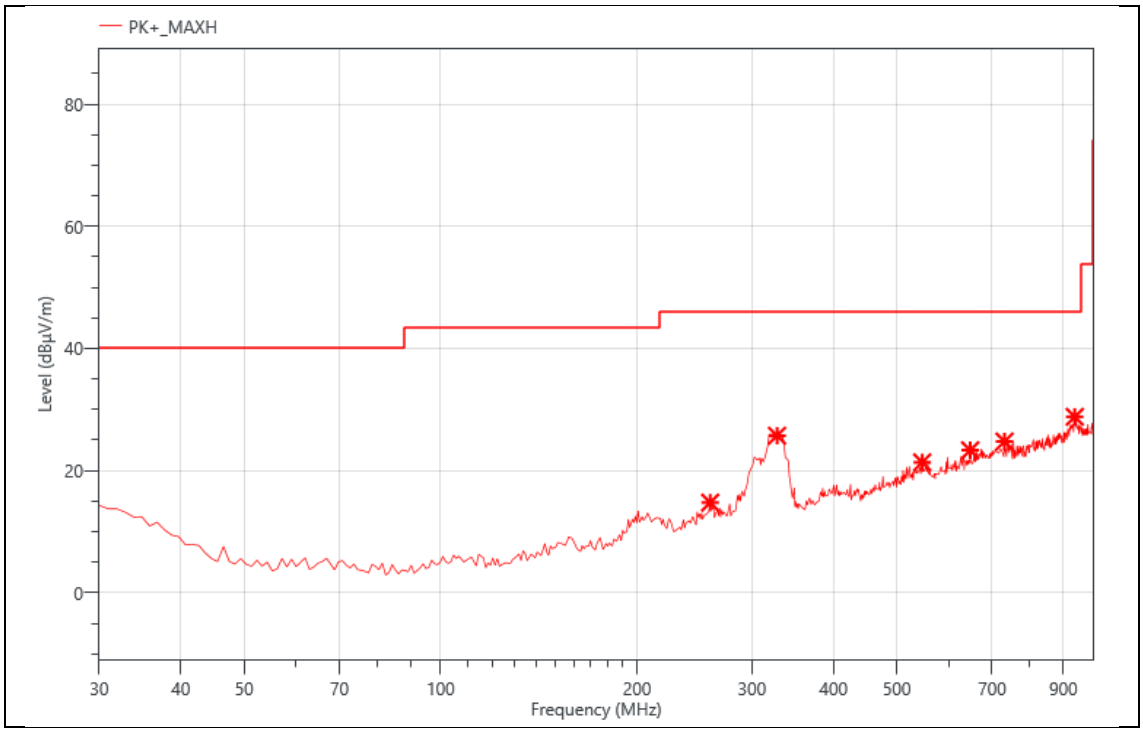
Mode:	M02
Power:	AC120V/60Hz
TE:	Berny
Date	2025/09/9
T/A/P	23.9℃/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	332.640	37.54	-16.96	20.58	46.00	25.42	PK+	V
2	409.270	33.33	-13.47	19.86	46.00	26.14	PK+	V
3	548.950	30.65	-9.53	21.12	46.00	24.88	PK+	V
4	714.820	31.90	-6.55	25.35	46.00	20.65	PK+	V
5	920.460	30.92	-2.75	28.17	46.00	17.83	PK+	V
6	999.030	30.75	-2.24	28.51	53.90	25.39	PK+	V

Mode:	M02
Power:	AC120V/60Hz
TE:	Berny
Date	2025/09/9
T/A/P	23.9℃/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	258.920	33.14	-18.38	14.76	46.00	31.24	PK+	H
2	327.790	42.87	-17.15	25.72	46.00	20.28	PK+	H
3	547.010	31.00	-9.64	21.36	46.00	24.64	PK+	H
4	647.890	31.43	-8.09	23.34	46.00	22.66	PK+	H
5	731.310	31.32	-6.55	24.77	46.00	21.23	PK+	H
6	936.950	30.97	-2.16	28.81	46.00	17.19	PK+	H

8. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a)

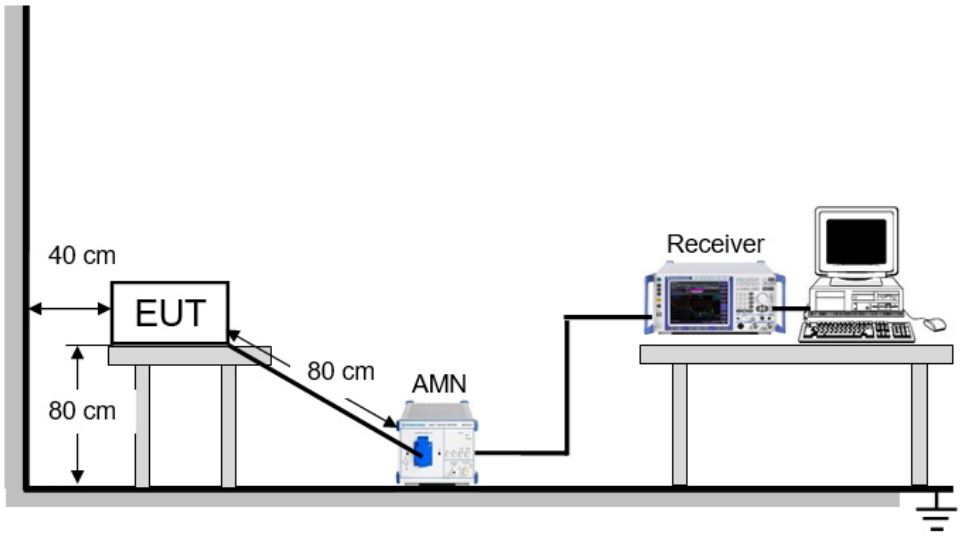
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

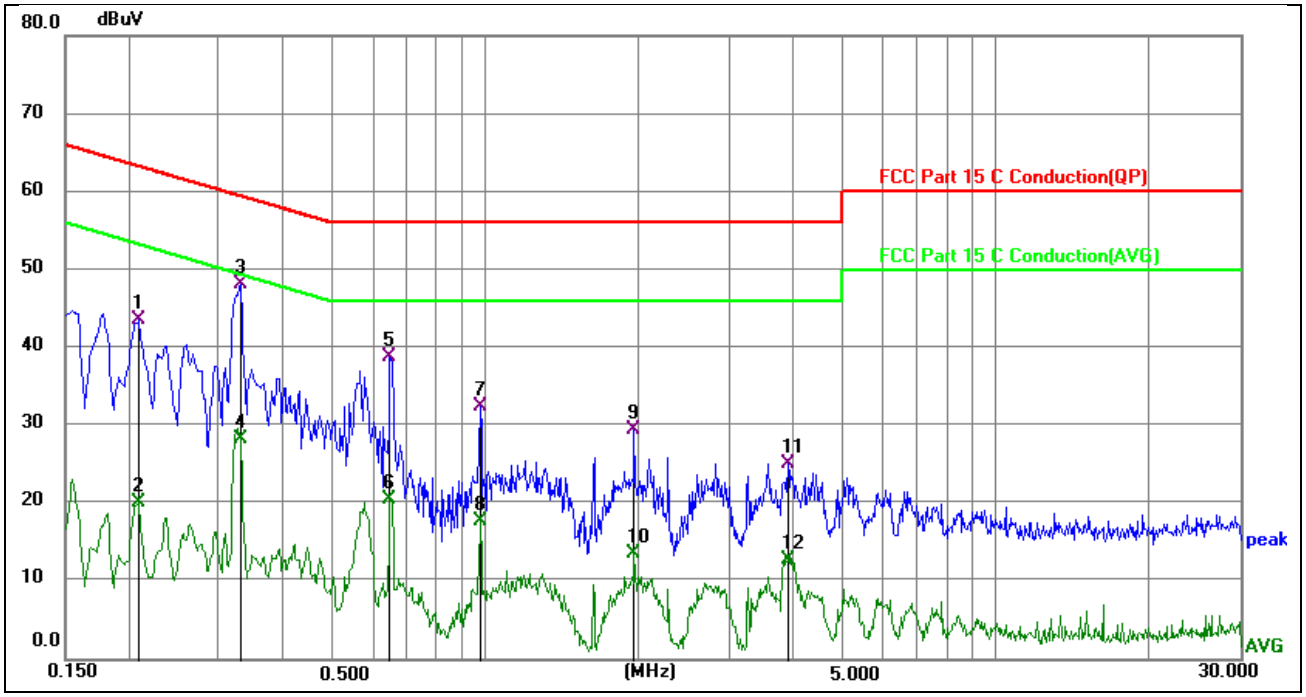
TEST SETUP



TEST ENVIRONMENT

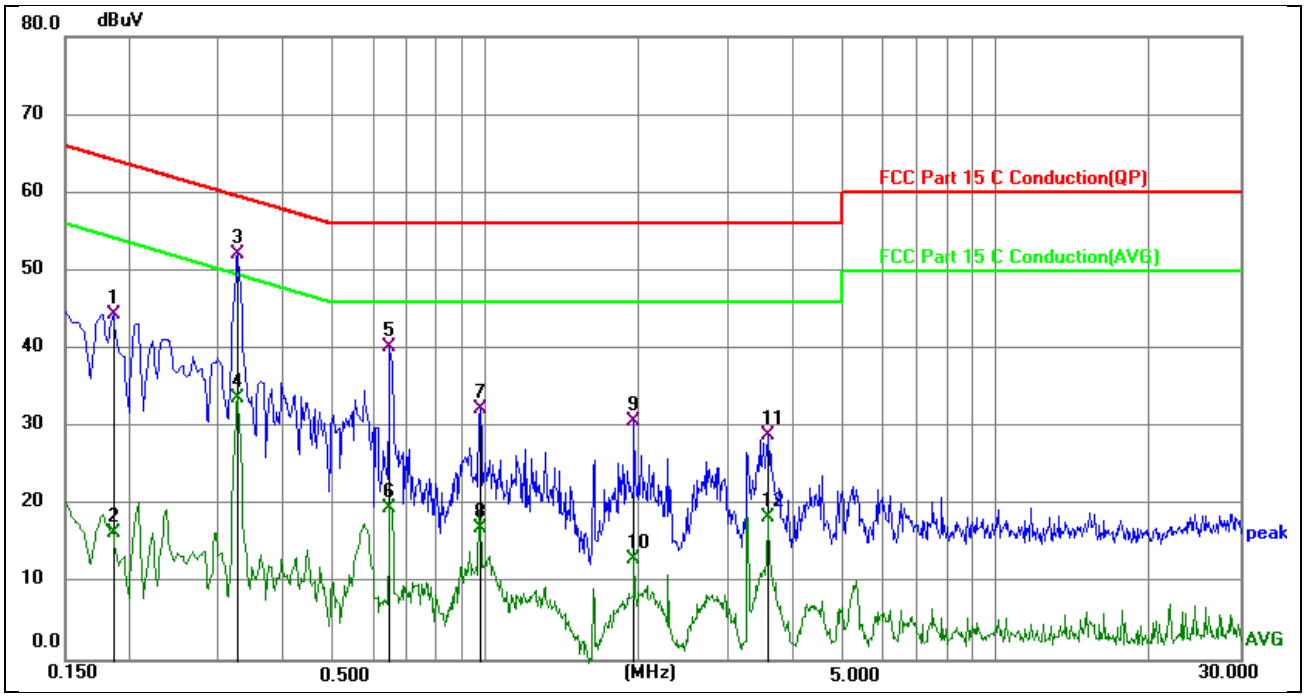
Temperature	23.2℃	Relative Humidity	52%
Atmosphere Pressure	100kPa		

TEST RESULTS



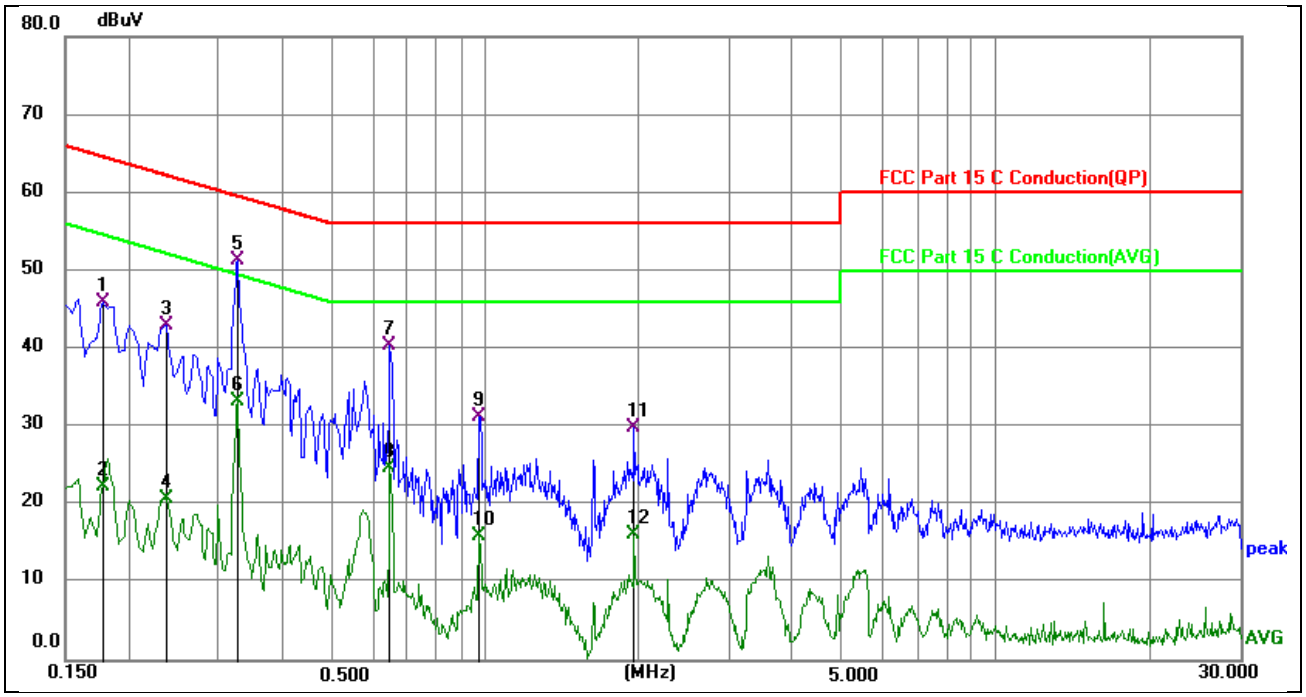
Phase: L1	Mode: M01

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2085	33.87	9.62	43.49	63.26	-19.77	QP
2	0.2085	10.54	9.62	20.16	53.26	-33.10	AVG
3	0.3300	38.43	9.64	48.07	59.45	-11.38	QP
4	0.3300	18.66	9.64	28.30	49.45	-21.15	AVG
5	0.6495	29.20	9.70	38.90	56.00	-17.10	QP
6	0.6495	10.85	9.70	20.55	46.00	-25.45	AVG
7	0.9780	22.72	9.65	32.37	56.00	-23.63	QP
8	0.9780	8.03	9.65	17.68	46.00	-28.32	AVG
9	1.9590	19.73	9.74	29.47	56.00	-26.53	QP
10	1.9590	3.88	9.74	13.62	46.00	-32.38	AVG
11	3.9120	15.26	9.79	25.05	56.00	-30.95	QP
12	3.9120	2.98	9.79	12.77	46.00	-33.23	AVG



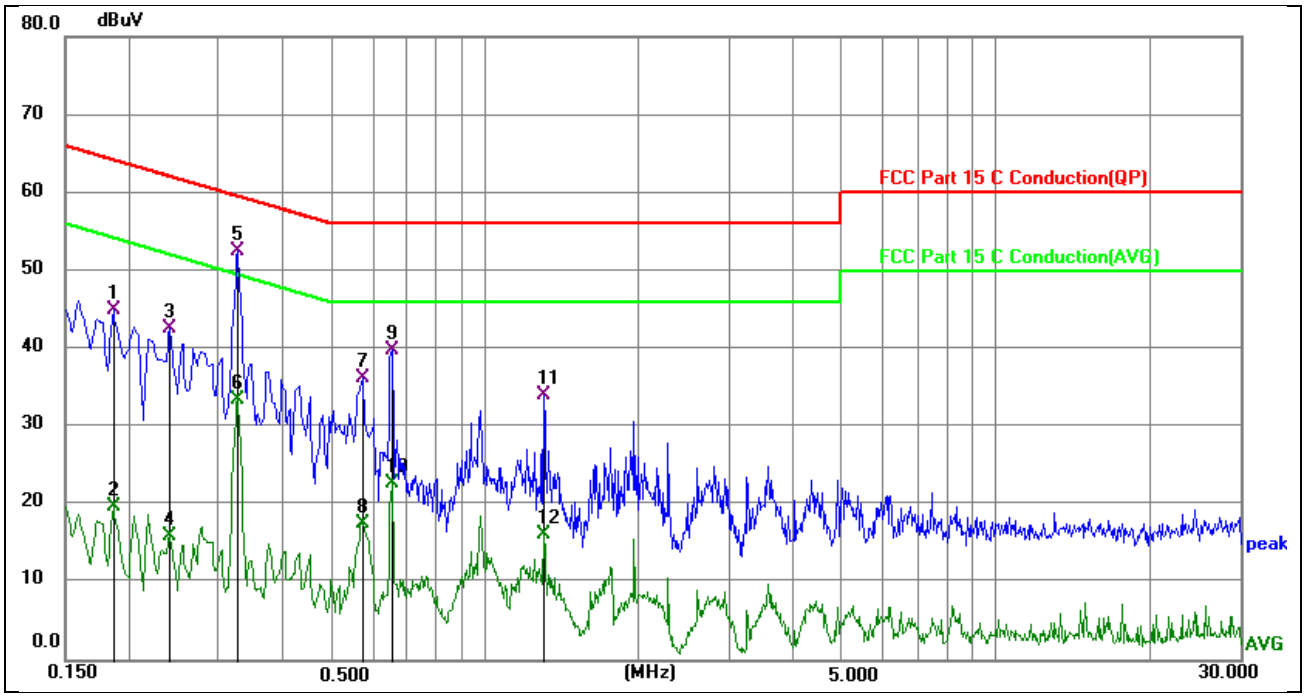
Phase: N	Mode: M01

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1860	34.71	9.65	44.36	64.21	-19.85	QP
2	0.1860	6.63	9.65	16.28	54.21	-37.93	AVG
3	0.3255	42.55	9.61	52.16	59.57	-7.41	QP
4	0.3255	23.99	9.61	33.60	49.57	-15.97	AVG
5	0.6493	30.49	9.67	40.16	56.00	-15.84	QP
6	0.6493	9.91	9.67	19.58	46.00	-26.42	AVG
7	0.9780	22.63	9.69	32.32	56.00	-23.68	QP
8	0.9780	7.37	9.69	17.06	46.00	-28.94	AVG
9	1.9544	21.08	9.66	30.74	56.00	-25.26	QP
10	1.9544	3.28	9.66	12.94	46.00	-33.06	AVG
11	3.5834	19.21	9.73	28.94	56.00	-27.06	QP
12	3.5834	8.57	9.73	18.30	46.00	-27.70	AVG



Phase: L1	Mode: M02

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1770	36.18	9.69	45.87	64.63	-18.76	QP
2	0.1770	12.65	9.69	22.34	54.63	-32.29	AVG
3	0.2355	33.33	9.61	42.94	62.25	-19.31	QP
4	0.2355	11.05	9.61	20.66	52.25	-31.59	AVG
5	0.3255	41.60	9.63	51.23	59.57	-8.34	QP
6	0.3255	23.57	9.63	33.20	49.57	-16.37	AVG
7	0.6495	30.71	9.70	40.41	56.00	-15.59	QP
8	0.6495	15.01	9.70	24.71	46.00	-21.29	AVG
9	0.9735	21.71	9.65	31.36	56.00	-24.64	QP
10	0.9735	6.29	9.65	15.94	46.00	-30.06	AVG
11	1.9545	20.19	9.74	29.93	56.00	-26.07	QP
12	1.9545	6.34	9.74	16.08	46.00	-29.92	AVG



Phase: N	Mode: M02

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1860	35.31	9.65	44.96	64.21	-19.25	QP
2	0.1860	10.08	9.65	19.73	54.21	-34.48	AVG
3	0.2400	32.97	9.62	42.59	62.10	-19.51	QP
4	0.2400	6.36	9.62	15.98	52.10	-36.12	AVG
5	0.3255	42.84	9.61	52.45	59.57	-7.12	QP
6	0.3255	23.82	9.61	33.43	49.57	-16.14	AVG
7	0.5730	26.62	9.64	36.26	56.00	-19.74	QP
8	0.5730	7.97	9.64	17.61	46.00	-28.39	AVG
9	0.6540	30.06	9.68	39.74	56.00	-16.26	QP
10	0.6540	13.07	9.68	22.75	46.00	-23.25	AVG
11	1.3020	24.32	9.68	34.00	56.00	-22.00	QP
12	1.3020	6.58	9.68	16.26	46.00	-29.74	AVG

Note:
1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.
5. All the modes have been tested, only the worst data was recorded in the report.

9. 20DB BANDWIDTH

LIMITS

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

TEST PROCEDURE

a.) The EUT operates at maximum output power according to the user manual.

b.) If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

c.) If the EUT is a floor standing device, it is placed on the ground.

d.) Auxiliary equipment and cables were positioned to simulate normal operation conditions.

f.) The EUT is connected to DC Power Source or an adapter.

e.) The measurement distance is 3 meter.

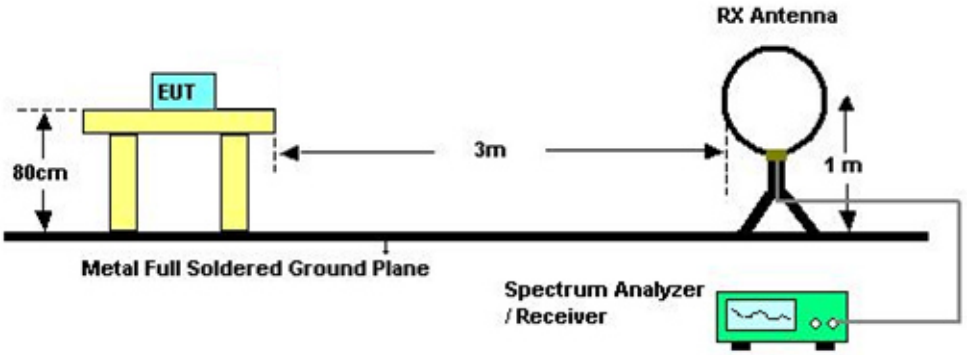
f.) The EUT was set into operation.

g.) Adjust the test instrument for the following setting.

RBW	1kHz
VBW	3*RBW
Detector	Peak
Sweep time	Auto
Trace Mode	Max hold

h.) Allow trace to fully stabilize.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.8 ℃	Relative Humidity	53 %
Atmosphere Pressure	101 kPa		

TEST RESULTS

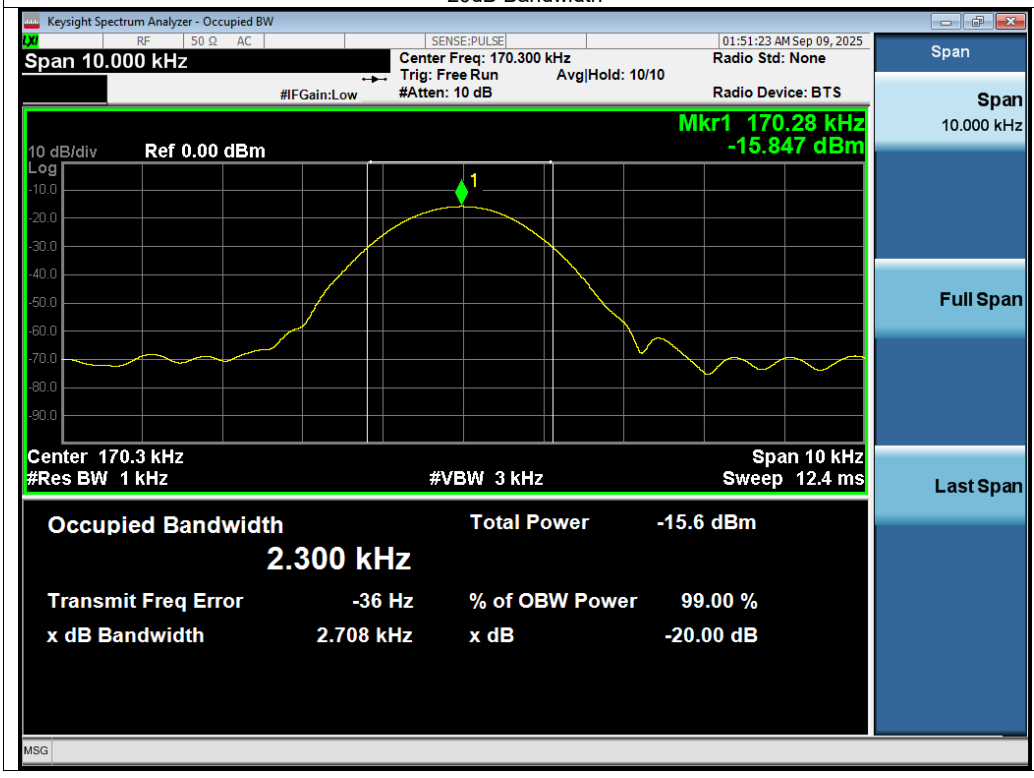
For M01

Frequency (kHz)	20dB Bandwidth (kHz)	Result
170.3	2.708	Pass

For M01:

Test Graphs

20dB Bandwidth



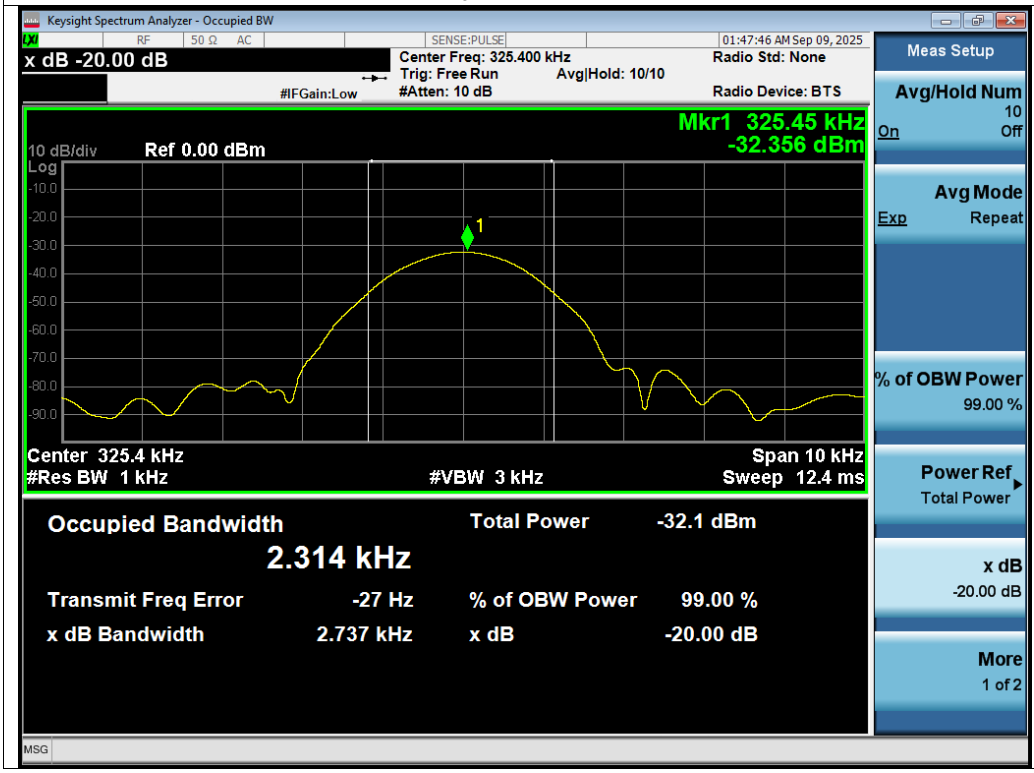
For M02

Frequency (kHz)	20dB Bandwidth (kHz)	Result
325.4	2.737	Pass

For M01:

Test Graphs

20dB Bandwidth



10. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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.

DESCRIPTION

Pass.

END OF REPORT