



# FCC RF Test Report

**APPLICANT** : Xiaomi Communications Co., Ltd.  
**EQUIPMENT** : Mobile Phone  
**BRAND NAME** : Xiaomi  
**MODEL NAME** : 2506BPN68G  
**FCC ID** : 2AFZZPN68G  
**STANDARD** : FCC Part 15 Subpart C §15.209  
**CLASSIFICATION** : (DCD) Part 15 Low Power Transmitter Below 1705 kHz  
**TEST DATE(S)** : May 21, 2025 ~ May 24, 2025

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.



Approved by: Fly Liang

**Sporton International Inc. (ShenZhen)**

**1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055**

**People's Republic of China**



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### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	2.1049	20dB Bandwidth	Reporting Only	-
3.1	2.1049	99% Occupied Bandwidth	Reporting Only	-
3.2	15.209	Radiated Emission	Pass	Under limit 9.83 dB at 38.73 MHz
3.3	15.207	AC Conducted Emission	Pass	Under limit 21.22 dB at 0.17 MHz
3.4	15.203	Antenna Requirements	Pass	-

**Conformity Assessment Condition:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# 1 General Description

## 1.1 Applicant

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

## 1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	2506BPN68G
FCC ID	2AFZZPN68G
IMEI Code	Radiation : 864724070060165/864724070060173 Conducted: 864724070057682-864724070057690 Conduction: 864724070060165/864724070060173
HW Version	1351P2404
SW Version	Xiaomi HyperOS 2.0
WPT Frequency Range	114 ~ 146kHz
WPT Type of Modulation	ASK
WPT Antenna Type	Coil Antenna
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Modification of EUT

No modifications are made to the EUT during all test items.



### 1.5 Test Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

<b>Test Firm</b>	Sporton International Inc. (ShenZhen)		
<b>Test Site Location</b>	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	TH01-SZ CO02-SZ ; 03CH05-SZ	CN1256	421272

### 1.6 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH05-SZ	AUDIX	E3	6.2009-8-24
2.	CO02-SZ	AUDIX	E3	6.120613b

### 1.7 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.209, §15.207
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2013

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

## 2 Test Configuration of Equipment Under Test

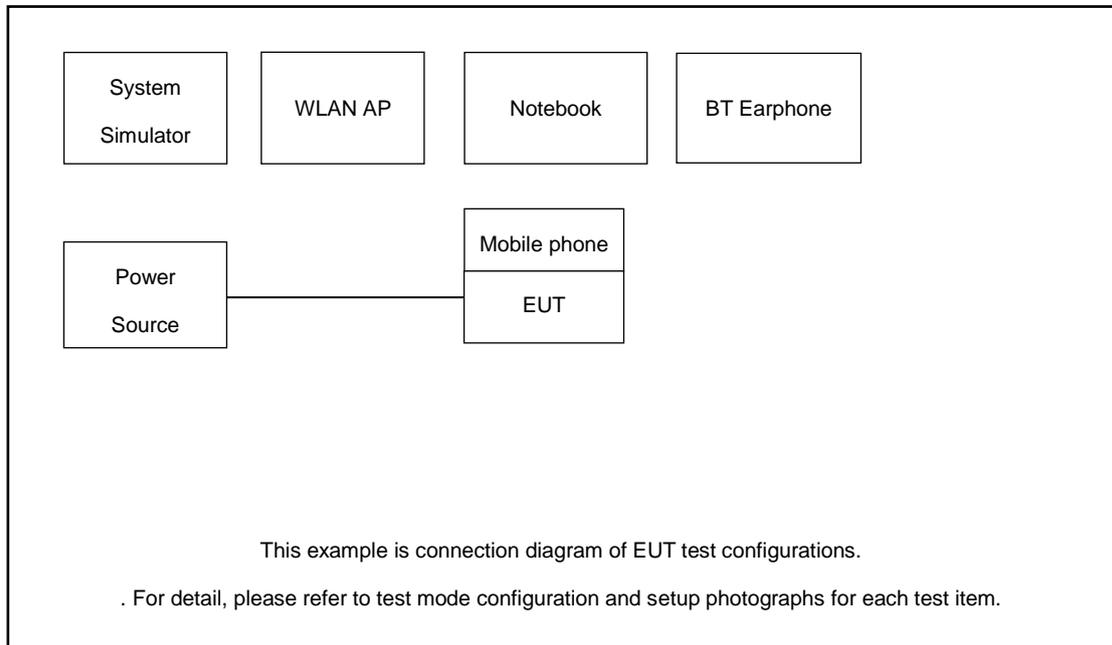
### 2.1 Test Mode

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 1000 MHz).
- b. AC power line Conducted Emission was tested under maximum output power.

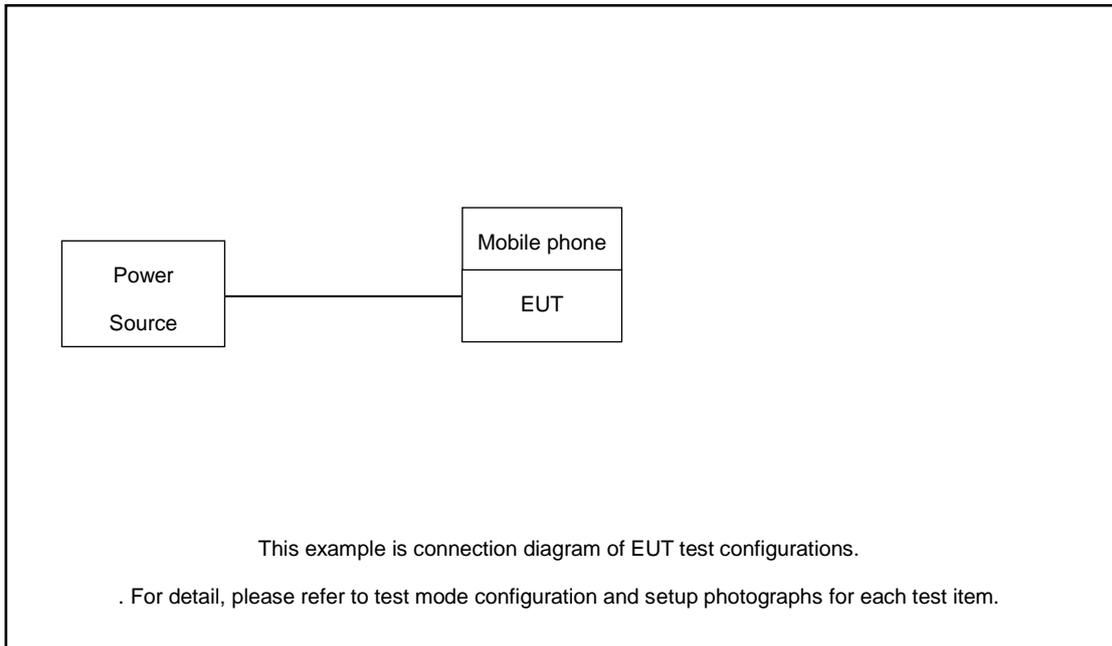
Test Items	Function Type
<b>AC Conducted Emission</b>	Mode 1 : GSM 850 Idle + BT Link + WLAN Link(2.4G) + WPC(reverse) + USB Cable (Charging From Adapter)
<b>Radiated Emission</b>	Mode 1 : WPC(reverse charge)+ USB Cable 1(Charging from Adapter)
<b>Remark:</b> The tests were performed with Adapter and USB Cable 1.	

### 2.2 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



### 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A
2.	System Simulator	Anritus	MT8821C	N/A	N/A	Unshielded, 1.8m
3.	Notebook	DELL	Latiude 3400	N/A	N/A	Unshielded, 1.8m
4.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded, 1.8m
5.	WLAN AP	NETHEAR	RAXE500	PY320300508	N/A	Unshielded, 1.8m
6.	Type c to Type c Cable	Apple	A2795	NA	N/A	N/A
7.	Mobile Phone	N/A	N/A	N/A	N/A	N/A

### 3 Test Result

#### 3.1 20dB and 99% Occupied Bandwidth Measurement

##### 3.1.1 Limit of 20dB and 99% Occupied Bandwidth

Reporting only, 99% OBW shall not located within 15.205 restricted bands.

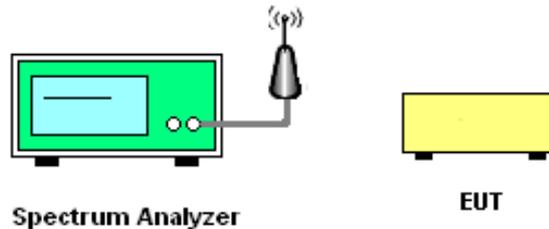
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

1. The 20dB bandwidth is measured with a spectrum analyzer connected via a receiver antenna placed near the EUT while wirelessly charging a charging board.
2. Use the following spectrum analyzer settings for 99 % Bandwidth measurement.
3. Measure and record the results in the test report.

##### 3.1.4 Test Setup



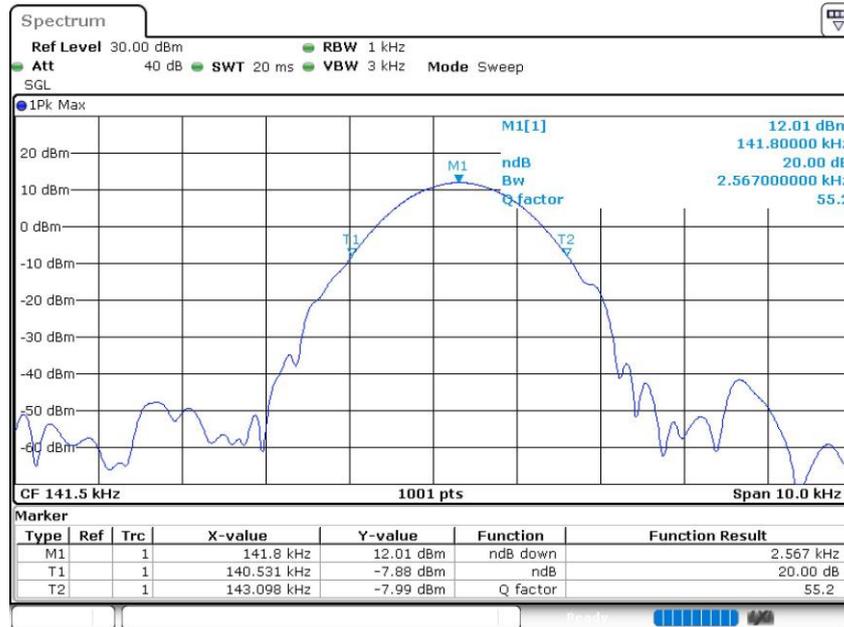
##### 3.1.5 Test Result of 20dB and 99% Bandwidth

Test Engineer :	Jason Zhang	Temperature :	22~24°C
		Relative Humidity :	53~55%
Occupied Bandwidth (kHz)		Frequency (kHz)	
20dB Bandwidth(KHz)		2.567	
99% Bandwidth(KHz)		2.208	

Remark: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW

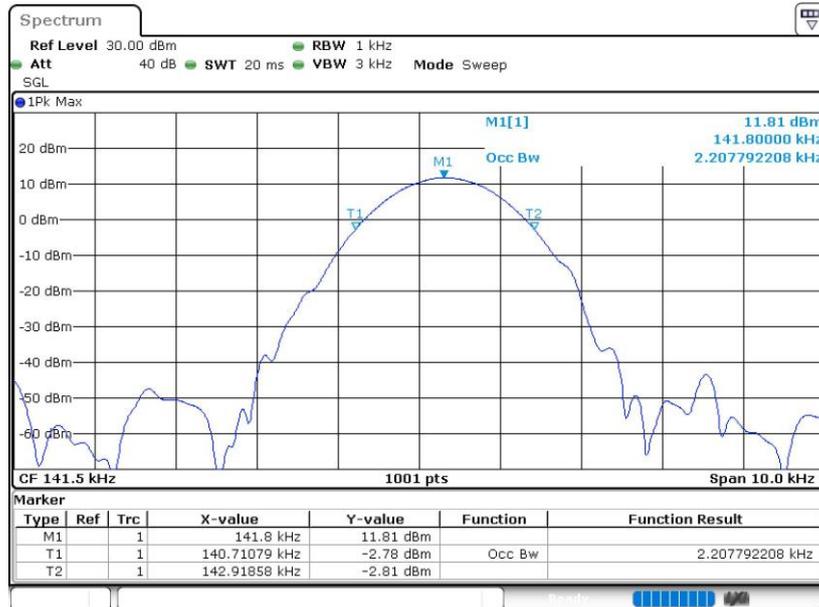


20 dB Bandwidth Plot



Date: 23.MAY.2025 14:52:47

99% Occupied Bandwidth Plot



Date: 23.MAY.2025 14:52:09



### 3.2 Radiated Emission Measurement

#### 3.2.1 Limit of Radiated Emission

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

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Receiver Parameter	Setting
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

**Note:** The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For radiated emissions from 9kHz to 1GHz test distance is 3m

For 9kHz ~ 30MHz

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
3. specific line (dBµV/m) = 20 log Emission level (µV/m)
4. Limit line = specific limits (dBµV/m) + distance extrapolation factor.

#### 3.2.2 Measuring Instruments

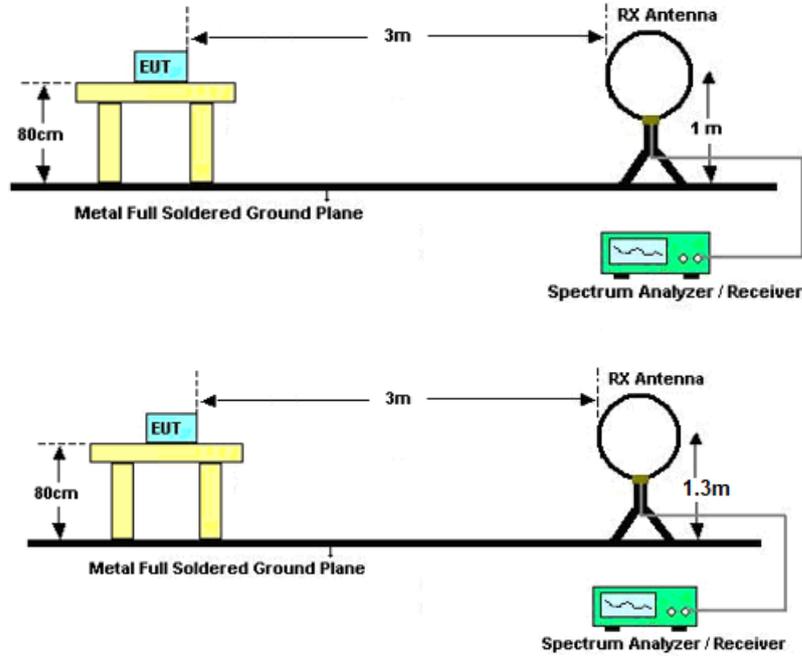
See list of measuring equipment of this test report.

#### 3.2.3 Measuring Instrument Setting

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission for three EUT orthogonal planes, and adjusting the measurement antenna height and polarization. A pre-amp and a high pass filter are used for this test in order to get the good signal level.

### 3.2.4 Test Setup of Radiated Emission

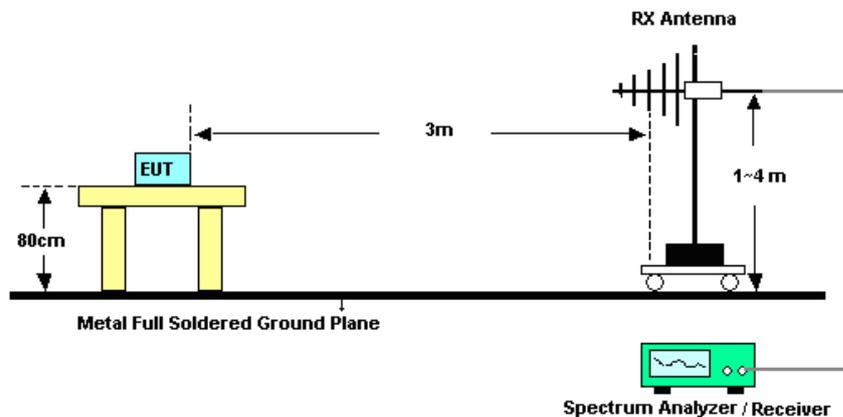
For radiated emissions below 30MHz



**Note:**

1. There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.
2. Tested for radiated below 30 MHz using a loop antenna in accordance with C63.10, the antenna was positioned in three antenna orientations: horizontal, vertical, and ground-parallel three polarization's, the worst case is horizontal & vertical polarization, test data of two mode was reported.

For radiated emissions above 30MHz





3.2.5 Test Result of Fundamental Emission

Frequency (MHz)	Level (dBuV/m) @3m	Distance Factor (dB)	Corrected level @300m (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Remark	Pol/Phase
0.13728	74.49	80	-5.51	24.85	-30.36	54.48	19.97	0.04	AV	Perpendicular
0.13728	71.75	80	-8.25	24.85	-33.10	51.74	19.97	0.04	AV	Parallel

Note: The field strength is tested at 3m distance then convert to 300m by adding distance factor  $40 \cdot \log(d1/d2)$

<b>Test Engineer :</b>	ZhanSheng Liu	<b>Temperature :</b>	22~25°C
<b>Polarization :</b>	Horizontal	<b>Relative Humidity :</b>	48~52%

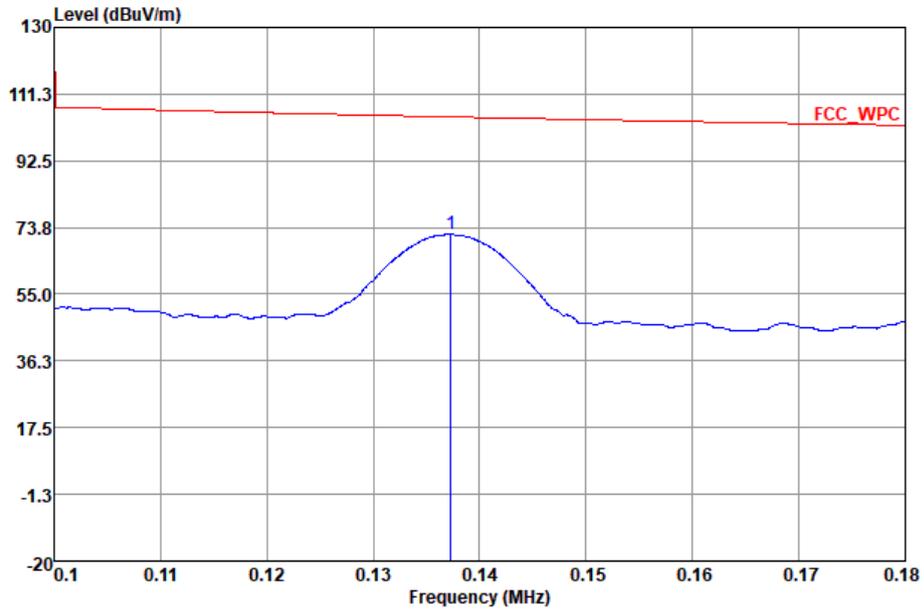
Date: 2025-05-24

Site : 03CH05-SZ  
Condition : FCC\_WPC 3m LOOP ANTENNA-316424 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	0.13728	74.49	-30.36	104.85	54.48	19.97	0.04	---	---	Average



Test Engineer :	ZhanSheng Liu	Temperature :	22~25°C
Polarization :	Vertical	Relative Humidity :	48~52%



Site : 03CH05-SZ  
 Condition : FCC\_WPC 3m LOOP ANTENNA-316424 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	0.13728	71.75	-33.10	104.85	51.74	19.97	0.04	---	---	Average



3.2.6 Test Result of Radiated Emission (9kHz ~ 30MHz)

Test Mode :		WPT Tx					Polarization :		Perpendicular			
Frequency ( MHz )	Level @3m ( dBμV/m )	Distance Factor ( dB )	Corrected Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark	
0.04873	37.27	80	-42.73	-76.58	33.85	17.53	19.7	0.04	-	-	Average	
0.08373	37.57	80	-42.43	-71.58	29.15	17.77	19.77	0.03	-	-	Average	
0.11517	33.6	80	-46.4	-72.78	26.38	13.67	19.9	0.03	-	-	Average	
0.14343	31.69	80	-48.31	-72.78	24.47	11.62	20.03	0.04	-	-	Average	
1.636	36.13	40	-3.87	-27.2	23.33	15.75	20.17	0.21	-	-	QP	
4.994	32.64	40	-7.36	-36.9	29.54	12.11	20.2	0.33	-	-	QP	
11.936	33.53	40	-6.47	-36.01	29.54	12.3	20.35	0.88	-	-	QP	
20.347	34.5	40	-5.5	-35.04	29.54	13.12	20.33	1.05	-	-	QP	
27.405	34.28	40	-5.72	-35.26	29.54	12.69	20.42	1.17	-	-	QP	

Test Mode :		WPT Tx					Polarization :		Parallel			
Frequency ( MHz )	Level @3m ( dBμV/m )	Distance Factor ( dB )	Corrected Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark	
0.04802	37.34	80	-42.66	-76.64	33.98	17.6	19.7	0.04	-	-	Average	
0.08154	34.23	80	-45.77	-75.15	29.38	14.44	19.76	0.03	-	-	Average	
0.11394	33.27	80	-46.73	-73.2	26.47	13.34	19.9	0.03	-	-	Average	
0.14163	30.1	80	-49.9	-74.48	24.58	10.04	20.02	0.04	-	-	Average	
1.687	34.97	40	-5.03	-28.09	23.06	14.59	20.17	0.21	-	-	QP	
5.654	33.69	40	-6.31	-35.85	29.54	13.06	20.23	0.4	-	-	QP	
12.992	33.61	40	-6.39	-35.93	29.54	12.41	20.3	0.9	-	-	QP	
21.787	34.14	40	-5.86	-35.4	29.54	12.66	20.4	1.08	-	-	QP	
28.2	34.14	40	-5.86	-35.4	29.54	12.5	20.46	1.18	-	-	QP	

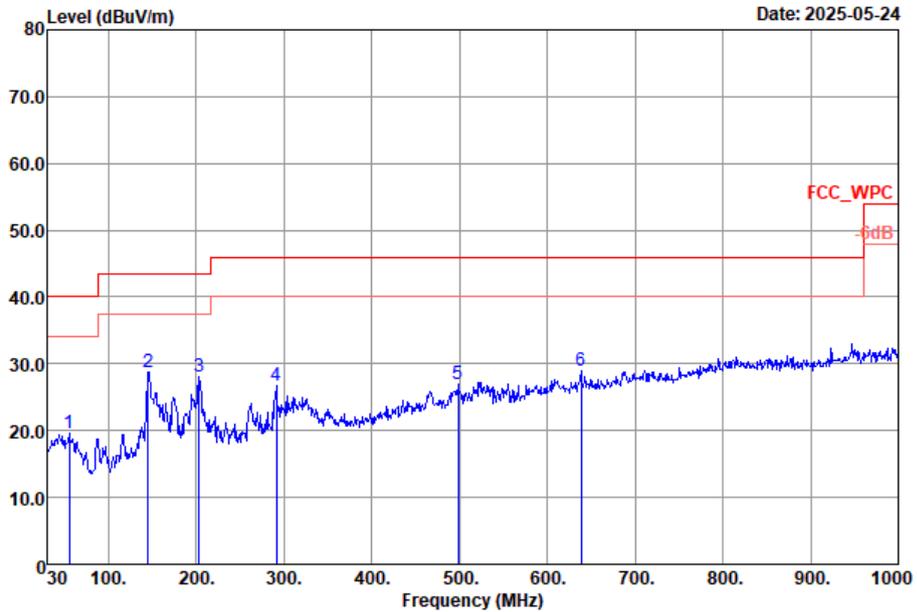
Note:

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
3. Corrected Level = Level @3m (dBμV/m) - distance extrapolation factor.



3.2.7 Test Result of Radiated Emission (30MHz ~ 1000MHz)

Test Engineer :	ZhanSheng Liu	Temperature :	22~25°C
Polarization :	Horizontal	Relative Humidity :	48~52%

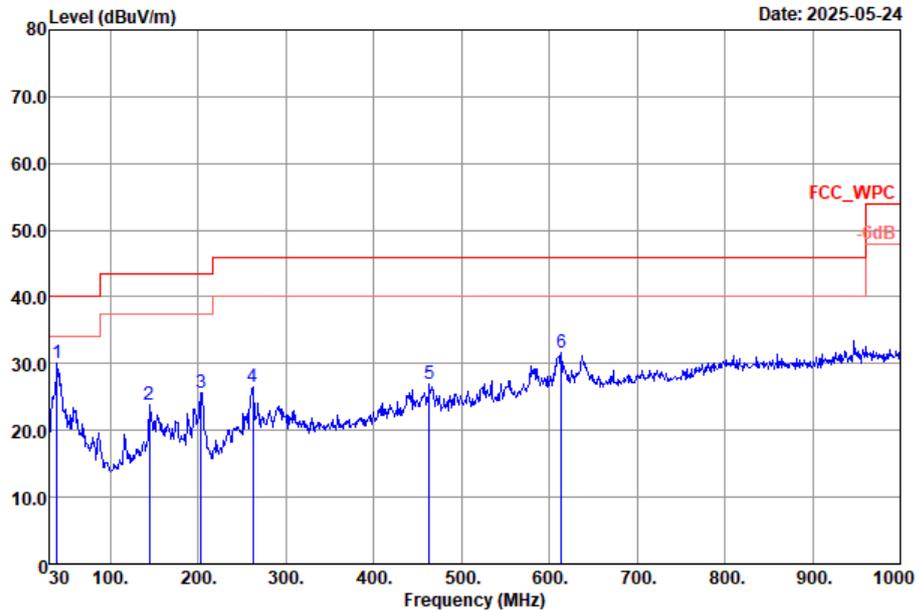


Site : 03CH05-SZ  
 Condition : FCC\_WPC 3m VULB9168-01001 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	55.22	19.55	-20.45	40.00	33.27	19.59	1.69	35.00	---	---	Peak
2 *	145.43	28.67	-14.83	43.50	42.40	18.87	2.30	34.90	---	---	Peak
3	203.63	28.17	-15.33	43.50	44.27	16.02	2.77	34.89	---	---	Peak
4	290.93	26.85	-19.15	46.00	39.24	19.16	3.17	34.72	---	---	Peak
5	498.51	26.87	-19.13	46.00	34.25	23.74	3.38	34.50	---	---	Peak
6	638.19	28.88	-17.12	46.00	33.27	26.36	3.65	34.40	---	---	Peak



Test Engineer :	ZhanSheng Liu	Temperature :	22~25°C
Polarization :	Vertical	Relative Humidity :	48~52%



Site : 03CH05-SZ  
 Condition : FCC\_WPC 3m VULB9168-01001 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 *	38.73	30.17	-9.83	40.00	44.39	19.14	1.33	34.69	---	---	Peak
2	144.46	23.81	-19.69	43.50	37.63	18.79	2.29	34.90	---	---	Peak
3	203.63	25.70	-17.80	43.50	41.80	16.02	2.77	34.89	---	---	Peak
4	261.83	26.57	-19.43	46.00	40.14	18.15	3.06	34.78	---	---	Peak
5	463.59	26.85	-19.15	46.00	34.76	23.21	3.45	34.57	---	---	Peak
6	613.94	31.56	-14.44	46.00	36.14	26.21	3.61	34.40	---	---	Peak



### 3.3 AC Conducted Emission Measurement

#### 3.3.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

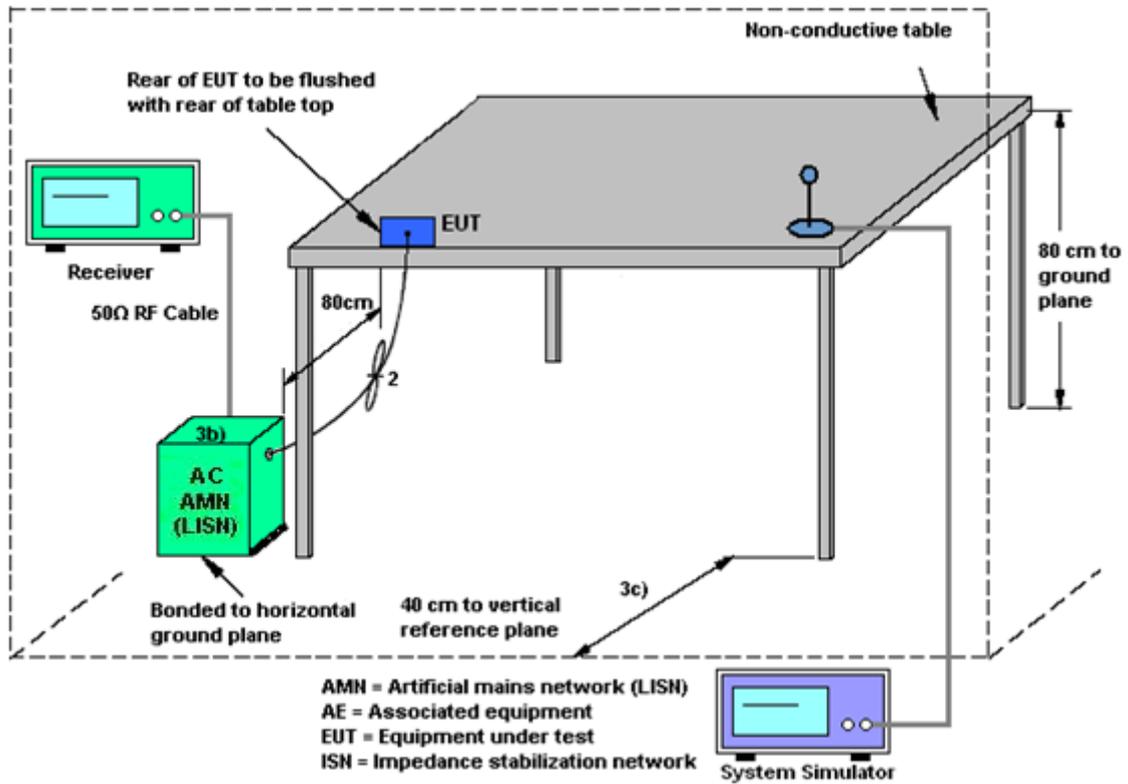
#### 3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

#### 3.3.3 Test Procedure

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

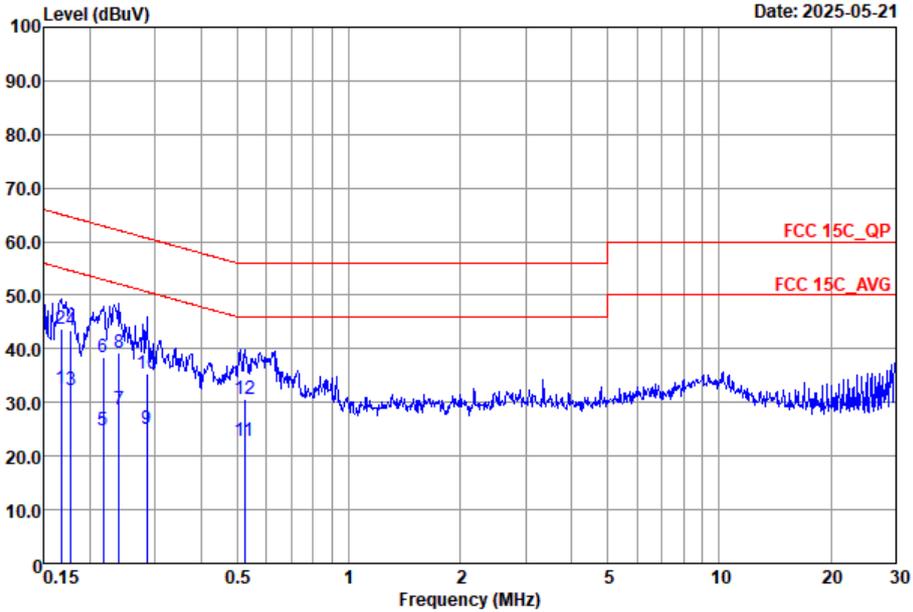
### 3.3.4 Test Setup





3.3.5 Test Result of AC Conducted Emission

Test Engineer :	Nathon	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

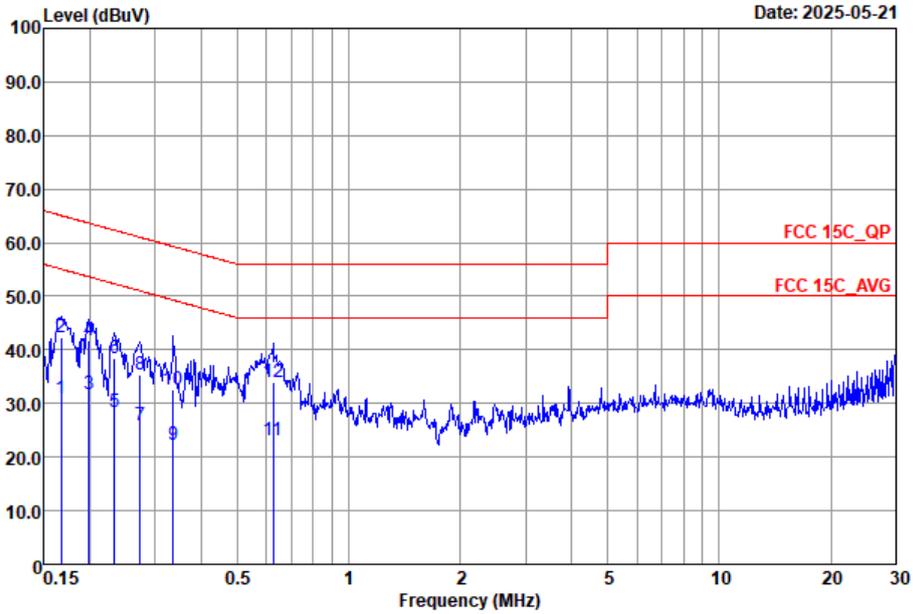


Site : C002-SZ  
 Condition : FCC 15C\_QP LISN\_2025-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.17	32.56	-22.52	55.08	12.70	9.68	10.18	Average
2 *	0.17	43.86	-21.22	65.08	24.00	9.68	10.18	QP
3	0.18	32.27	-22.32	54.59	12.40	9.69	10.18	Average
4	0.18	43.37	-21.22	64.59	23.50	9.69	10.18	QP
5	0.22	24.80	-28.12	52.92	4.90	9.71	10.19	Average
6	0.22	38.50	-24.42	62.92	18.60	9.71	10.19	QP
7	0.24	28.61	-23.47	52.08	8.70	9.72	10.19	Average
8	0.24	39.21	-22.87	62.08	19.30	9.72	10.19	QP
9	0.28	25.15	-25.53	50.68	5.20	9.75	10.20	Average
10	0.28	35.25	-25.43	60.68	15.30	9.75	10.20	QP
11	0.52	22.91	-23.09	46.00	3.00	9.67	10.24	Average
12	0.52	30.71	-25.29	56.00	10.80	9.67	10.24	QP



Test Engineer :	Nathon	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO02-SZ  
 Condition : FCC 15C\_QP LISN\_2025-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.17	30.92	-24.16	55.08	11.00	9.74	10.18	Average
2	0.17	42.42	-22.66	65.08	22.50	9.74	10.18	QP
3	0.20	31.73	-21.94	53.67	11.70	9.85	10.18	Average
4 *	0.20	41.73	-21.94	63.67	21.70	9.85	10.18	QP
5	0.23	28.52	-23.83	52.35	8.70	9.63	10.19	Average
6	0.23	38.32	-24.03	62.35	18.50	9.63	10.19	QP
7	0.27	25.91	-25.12	51.03	6.00	9.71	10.20	Average
8	0.27	35.31	-25.72	61.03	15.40	9.71	10.20	QP
9	0.34	22.37	-26.94	49.31	2.50	9.66	10.21	Average
10	0.34	32.57	-26.74	59.31	12.70	9.66	10.21	QP
11	0.62	23.10	-22.90	46.00	3.20	9.66	10.24	Average
12	0.62	34.00	-22.00	56.00	14.10	9.66	10.24	QP

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



### **3.4 Antenna Requirements**

#### **3.4.1 Standard Applicable**

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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 the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

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 rule.

#### **3.4.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	May 23, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	May 23, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 14,2024	May 23, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 03, 2024	May 21, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2024	May 21, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	616010002470	100Vac~250Vac	Dec.25, 2024	May 21, 2025	Dec. 24, 2025	Conduction (CO02-SZ)
EMI Test Receiver	R&S	ESR7	102261	9kHz~7GHz	Apr. 02, 2025	May 24, 2025	Apr. 01, 2026	Radiation (03CH05-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071191	10Hz~44GHz	Apr. 02, 2025	May 24, 2025	Apr. 01, 2026	Radiation (03CH05-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	May 24, 2025	Dec. 27, 2025	Radiation (03CH05-SZ)
Log-periodic Antenna	SCHWARZBECK	VULB 9168	01001	20MHz~1.5GHz	Jul. 08, 2024	May 24, 2025	Jul. 07, 2025	Radiation (03CH05-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	May 24, 2025	Jul. 03, 2025	Radiation (03CH05-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	00983	15GHz~40GHz	Apr. 03, 2025	May 24, 2025	Apr. 02, 2027	Radiation (03CH05-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz ~3000MHz	Apr. 02, 2025	May 24, 2025	Apr. 01, 2026	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM01G18GA	060779	1GHz~18GHz	Dec. 25, 2024	May 24, 2025	Dec. 24, 2025	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM18G40G	060778	18GHz~40GHz	Apr. 03, 2025	May 24, 2025	Apr. 02, 2026	Radiation (03CH05-SZ)
Amplifier	Keysight	83017A	MY53270357	500MHz~26.5G Hz	Apr. 02, 2025	May 24, 2025	Apr. 01, 2026	Radiation (03CH05-SZ)
AC Power Source	APC	AFV-S-600	F119050013	N/A	Oct. 14, 2024	May 24, 2025	Oct. 13, 2025	Radiation (03CH05-SZ)
Turn Table	EMEC	T-200-S-1	060925-T	0~360 degree	NCR	May 24, 2025	NCR	Radiation (03CH05-SZ)
Antenna Mast	EMEC	MBS-400-1	060927	1 m~4 m	NCR	May 24, 2025	NCR	Radiation (03CH05-SZ)

NCR: No Calibration Required



## 5 Measurement Uncertainty

### Uncertainty of Conducted Measurement

Test Item	Uncertainty
Occupied Channel Bandwidth	±0.012 MHz

### Uncertainty of AC Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB
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### Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.2dB
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