

**FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 7**

**TEST REPORT**

*For*

**5000 Series**

**MODEL NUMBER: HX369LBA, HX369W4A**

**REPORT NUMBER: 4791828790.5.1**

**FCC ID: 2ADZNHX36A**

**ISSUE DATE: June 30, 2025**

*Prepared for*

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*Prepared by*

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

## Revision History

Rev.	Issue Date	Revisions	Revised By
V0	June 30, 2025	Initial Issue	

### Summary of Test Results

Emission			
Standard	Test Item	Limit	Result
FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 7	Conducted emissions	FCC Part 15.107 ICES-003 Issue 7, Section 3.2.1	Pass
	Radiated emissions below 1GHz	FCC Part 15.109 ICES-003 Issue 7, Section 3.2.2	Pass
	Radiated emissions above 1GHz	FCC Part 15.109 ICES-003 Issue 7, Section 3.2.2	N/A (NOTE 1, 2)

**Note:**

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

2. If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz; If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz; If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz; If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.

\*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 <FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 7> when <Simple Acceptance> decision rule is applied.

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## 1. ATTESTATION OF TEST RESULTS

### FCC

#### Applicant Information

Company Name: Philips Oral Healthcare, Inc.  
Address: 22100 Bothell-Everett Highway Bothell Washington 98021 United States

#### Manufacturer Information

Company Name: Philips Oral Healthcare, Inc.  
Address: 22100 Bothell-Everett Highway Bothell Washington 98021 United States

### ISED

#### Applicant Information

Company Name: Philips Oral Healthcare  
Address: 22100 Bothell-Everett Highway Bothell US 98021 United States Of America (Excluding The States Of Alaska)

#### Manufacturer Information

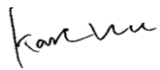
Company Name: Philips Oral Healthcare  
Address: 22100 Bothell-Everett Highway Bothell US 98021 United States Of America (Excluding The States Of Alaska)

### EUT Information

EUT Name: 5000 Series  
Model: HX369LBA  
Series Model: HX369W4A  
Brand: Sonicare  
Sample Received Date: June 16, 2025  
Sample ID: 8593354  
Date of Tested: June 24, 2025 to June 25, 2025

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 7	Pass

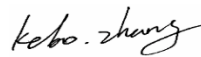
Prepared By:



Karl Wu

Engineer Project Associate

Checked By:



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Senior Project Engineer

Approved By:



Stephen Guo

Operations Manager

## 2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 7

## 3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p><b>A2LA (Certificate No.: 4102.01)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p><b>FCC (FCC Designation No.: CN1187)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</p> <p><b>ISED (Company No.: 21320)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p>
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Note:

All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China.

## 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 Item	Measurement Frequency Range	K	U(dB)
Conducted emissions	0.15MHz - 30MHz	2	3.63
Radiated emissions below 1GHz	30MHz -1GHz	2	4.13

Note1: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.

Note 2: According to the standard CISPR 16-4-2, the MU for the Conducted emissions from the AC mains power ports using AMN should not exceed 3.8 in range of 9kHz to 150kHz and 3.4 in range of 150kHz to 30MHz. We have considered the test results containing the value of U<sub>lab</sub> (in dB) for the measurement instrumentation actually used for the measurements.

## 5. EQUIPMENT UNDER TEST


### 5.1. DESCRIPTION OF EUT

EUT Name	5000 Series
Model	HX369LBA
Series Model	HX369W4A
Model difference:	HX369W4A has the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with HX369LBA. The difference lies only the color, model number.
EUT Classification	Class B
Highest Internal Frequency	13.56MHz
Ratings	Input: DC 5V Charging Dock: DC 4.75-5.25V, 0.3A 1.5W Powered Tooth Brush: DC 3.6V (Built-in Li-ion battery)

### 5.2. TEST MODE

Test Mode	Description
M01	Clean mode
M02	Powered on + Charging

### 5.3. EUT ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1.	Charging Dock	Philips	HX6110 ABA3	DC 4.75-5.25V  0.3A 1.5W

Charging Dock Cable:	1m, unshielded, without ferrite
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### 5.4. SUPPORT UNITS FOR SYSTEM TEST

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	Adapter	Philips	WAA1001	N/A	Manufacturer Support

## 6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	101961	Sep. 28, 2024	Sep. 27, 2025
Two-Line V-Network	ROHDE & SCHWARZ	ENV216	101983	Sep. 28, 2024	Sep. 27, 2025
Test Software for Conducted Emission	Farad	EZ-EMC	Ver.UL-3A1	N/A	N/A

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Jun. 28, 2024	Jun. 27, 2027
MXE EMI Receiver	KEYSIGHT	N9038A	MY56400036	Sep. 28, 2024	Sep. 27, 2025
Amplifier	HP	8447F	2944A03683	Sep. 28, 2024	Sep. 27, 2025
Test Software for Radiated Emission	Farad	EZ-EMC	Ver.UL-3A1	N/A	N/A

Other Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.8, 2024	Oct.7, 2025
Barometer	Yiyi	Baro	N/A	Oct.10, 2024	Oct.9, 2025
Attenuator	Agilent	8495B	2814a12853	Sep.28, 2024	Sep.27, 2025

## 7. EMISSION TEST

### 7.1. CONDUCTED EMISSIONS

#### LIMITS

Frequency (MHz)	Class A (dB $\mu$ V)		Class B (dB $\mu$ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79	66	66 - 56 *	56 - 46*
0.50 -5.0	73	60	56	46
5.0 -30.0	73	60	60	50

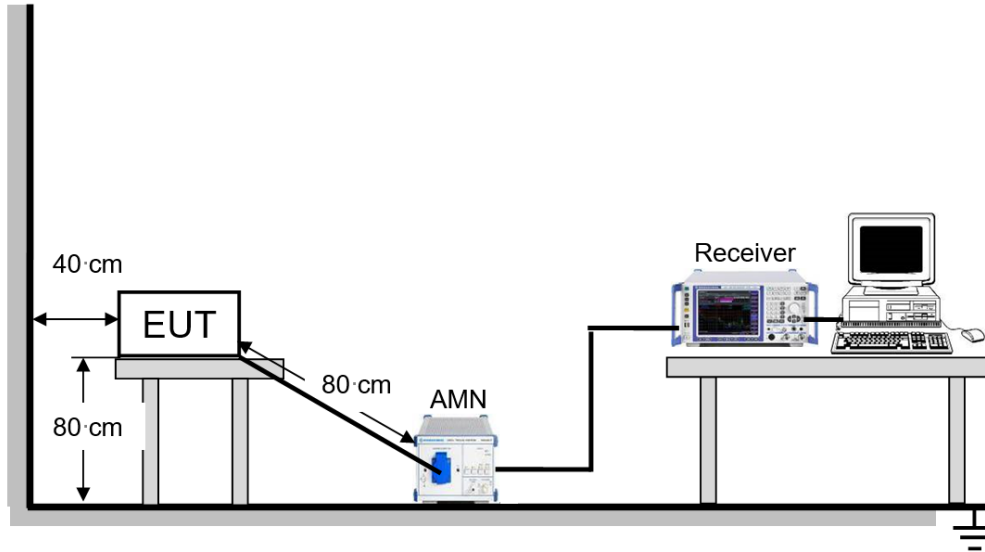
Note:

- (1). The tighter limit applies at the band edges.
- (2). The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

#### TEST PROCEDURE

- 1) The testing follows the guideline in ANSI C63.4-2014.
- 2) The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- 3) 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.
- 4) 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.
- 5) Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
- 6) LISN at least 80 cm from nearest part of EUT chassis.
- 7) Conducted emissions from the EUT measured in the frequency range between 0.15MHz and 30MHz using CISPR Quasi-Peak and average detector mode, resolution bandwidth set 9kHz.

### TEST SETUP



### TEST ENVIRONMENT

Temperature	24.5°C	Relative Humidity	55.2%
Atmosphere Pressure	101kPa		

### TEST DATE / ENGINEER

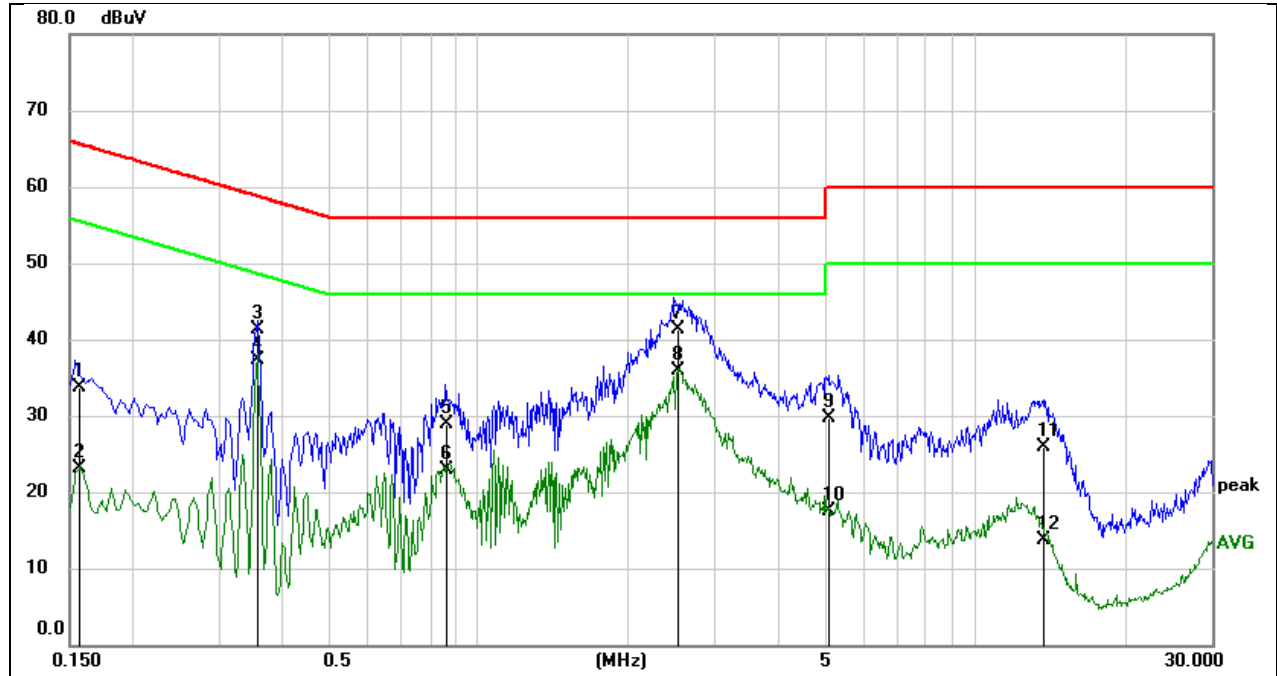
Test Date	June 24, 2025	Test By	Deacon Tan
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### TEST MODE

Pre-test Mode:	M01
Final Test Mode:	M01

## TEST RESULTS

Test Mode:	M01	Line:	Line
Test Voltage:	AC 120V_60Hz (Adapter Input)		



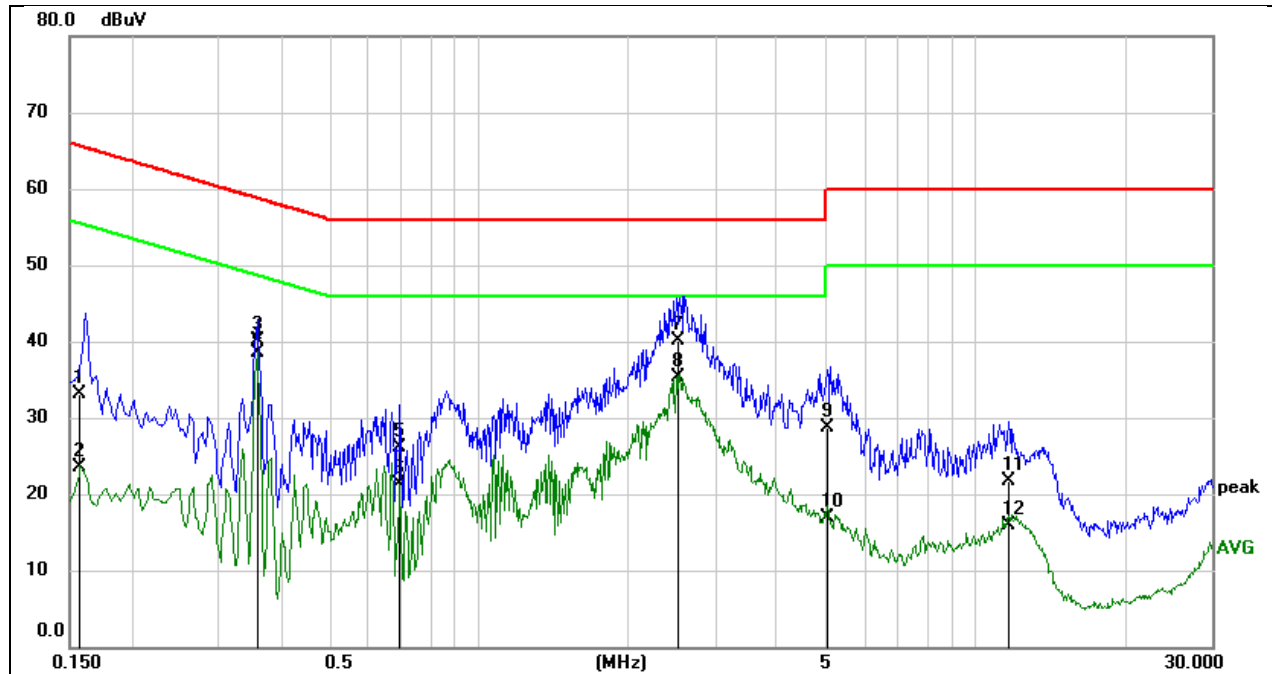
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1570	23.92	9.73	33.65	65.62	-31.97	QP
2	0.1570	13.41	9.73	23.14	55.62	-32.48	AVG
3	0.3571	31.59	9.64	41.23	58.80	-17.57	QP
4	0.3571	27.75	9.64	37.39	48.80	-11.41	AVG
5	0.8647	19.26	9.63	28.89	56.00	-27.11	QP
6	0.8647	13.37	9.63	23.00	46.00	-23.00	AVG
7	2.5271	31.66	9.74	41.40	56.00	-14.60	QP
8	2.5271	26.16	9.74	35.90	46.00	-10.10	AVG
9	5.0644	19.95	9.73	29.68	60.00	-30.32	QP
10	5.0644	7.86	9.73	17.59	50.00	-32.41	AVG
11	13.7096	16.11	9.74	25.85	60.00	-34.15	QP
12	13.7096	3.95	9.74	13.69	50.00	-36.31	AVG

Remark:

1. Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)

2. Margin = Result - Limit

Test Mode:	M01	Line:	Neutral
Test Voltage:	AC 120V_60Hz (Adapter Input)		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1579	23.50	9.64	33.14	65.57	-32.43	QP
2	0.1579	13.90	9.64	23.54	55.57	-32.03	AVG
3	0.3580	30.41	9.64	40.05	58.77	-18.72	QP
4	0.3580	28.83	9.64	38.47	48.77	-10.30	AVG
5	0.6935	16.48	9.63	26.11	56.00	-29.89	QP
6	0.6935	11.59	9.63	21.22	46.00	-24.78	AVG
7	2.5264	30.47	9.64	40.11	56.00	-15.89	QP
8	2.5264	25.57	9.64	35.21	46.00	-10.79	AVG
9	5.0383	19.07	9.66	28.73	60.00	-31.27	QP
10	5.0383	7.23	9.66	16.89	50.00	-33.11	AVG
11	11.7132	12.05	9.73	21.78	60.00	-38.22	QP
12	11.7132	6.24	9.73	15.97	50.00	-34.03	AVG

Remark:

1. Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)

2. Margin = Result - Limit

## 7.2. RADIATED EMISSIONS BELOW 1GHZ

### LIMITS

CFR 47 FCC Part 15 Subpart B		
Frequency (MHz)	Field strength (dBuV/m@ 3 m)	
	Class A	Class B
30 - 88	49.5	40
88 - 216	53.9	43.5
216 - 960	56.9	46
Above 960	60	54

ICES-003 Issue 7		
Frequency (MHz)	Field strength (dBuV/m@ 3 m)	
	Class A	Class B
30 - 88	50	40
88 - 216	54	43.5
216 - 230	56.9	46
230 - 960	57	47
Above 960	60	54

Note: (1). The tighter limit applies at the band edges

(2). The different between FCC Part 15 Subpart B limit and ICES-003 Issue 7 limit is only in frequency band 230 MHz to 960 MHz, the limit of FCC Part 15 Subpart B is 1 dB smaller than the limit of ICES-003 Issue 7, if the test result complies with FCC Part 15 Subpart B limit, it deemed to comply with ICES-003 Issue 7 limit.

### TEST PROCEDURE

- 1) The testing follows the guidelines in ANSI C63.4-2014.
- 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 80cm above ground.
- 4) The EUT was set 3 meters from the interference receiving antenna, test antenna mast is remotely controlled and can be varied in height from 1m to 4m.
- 5) 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.
- 6) 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.
- 7) Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.

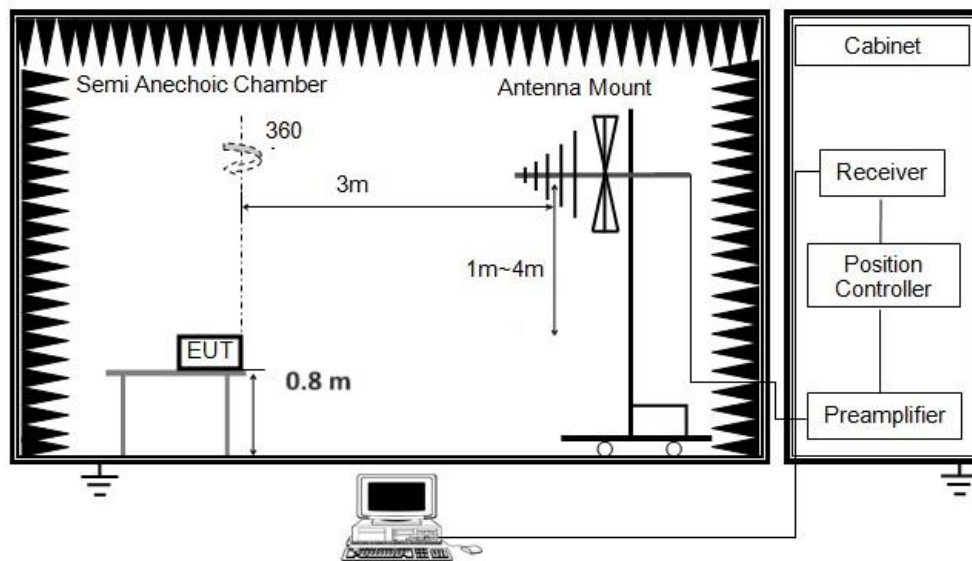
- 8) For measurement below 1 GHz, the initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

The setting of the spectrum analyser

RBW	100kHz
VBW	300kHz
Detector	Peak / Quasi Peak#
Trace	Max hold

#: Peak for pre-scan, Quasi Peak for the final result.

### TEST SETUP



Below 1 GHz and above 30 MHz

### TEST ENVIRONMENT

Temperature	24.1°C	Relative Humidity	59%
Atmosphere Pressure	101kPa		

### TEST DATE / ENGINEER

Test Date	June 25, 2025	Test By	Stipe Zheng
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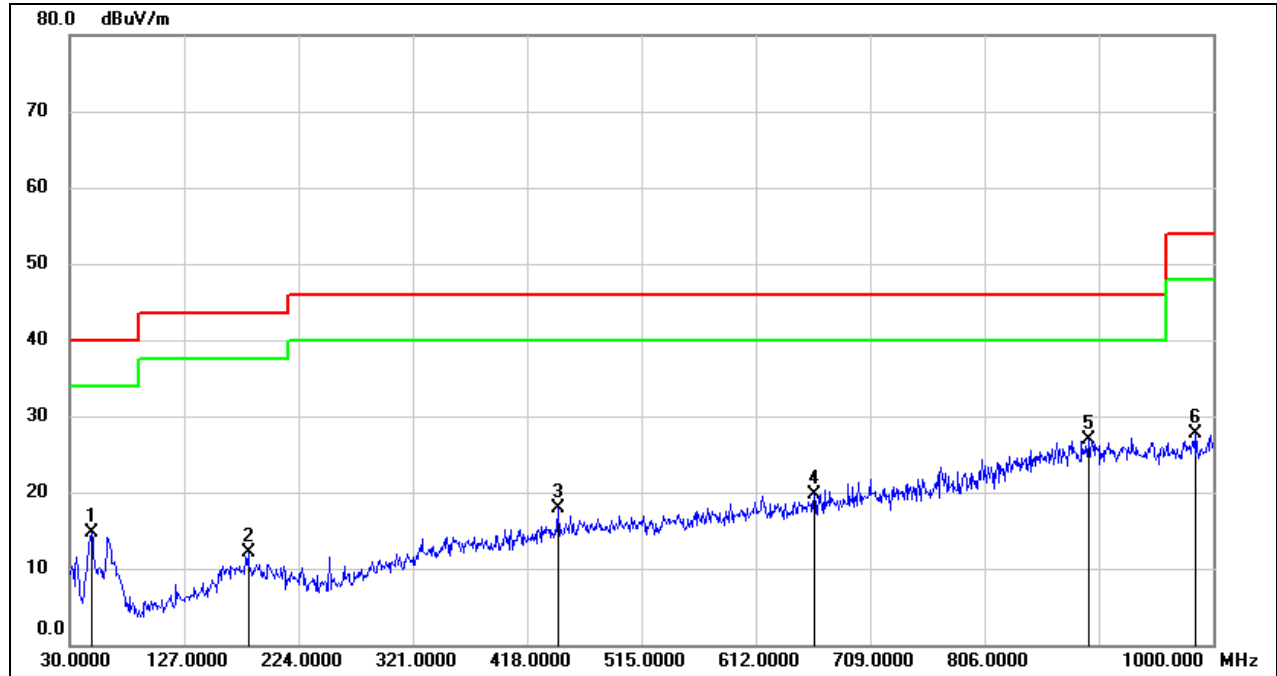
### TEST MODE

Pre-test Mode:	M01 ~ M02
Final Test Mode:	M01

Note: All test modes had been tested, but only the worst data recorded in the report.

## TEST RESULTS

Test Mode:	M01	Polarity:	Horizontal
Test Voltage:	AC 120V_60Hz (Adapter Input)		

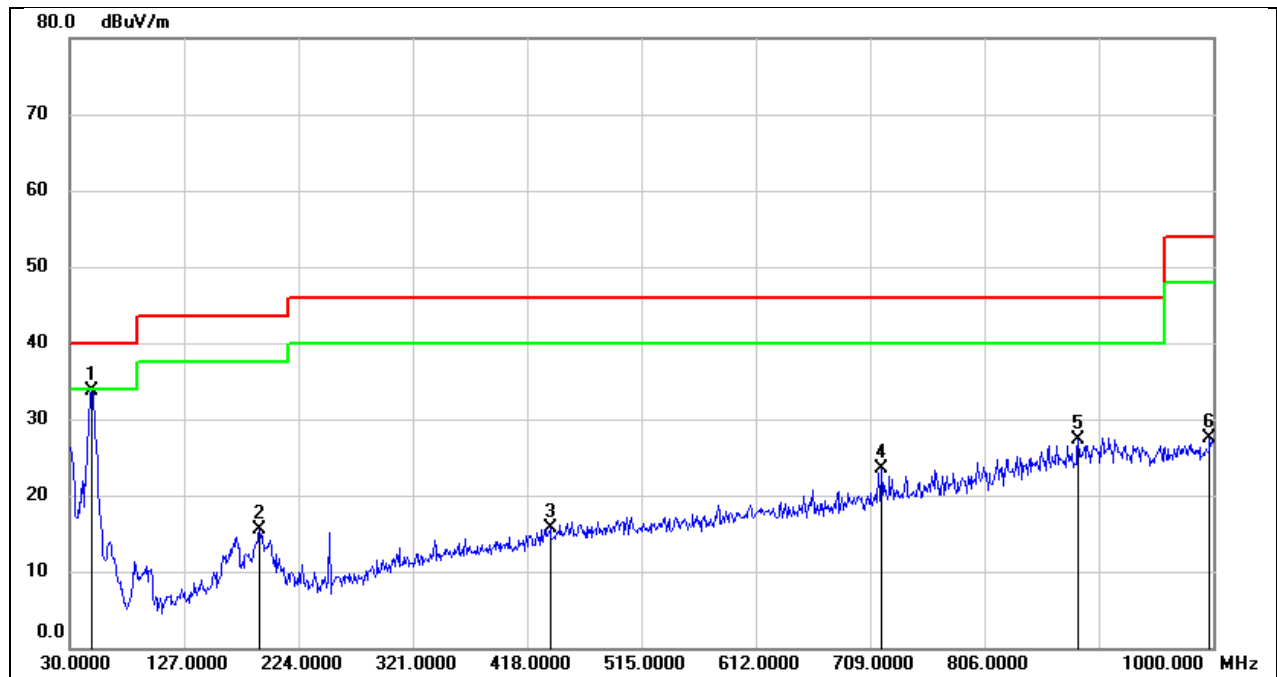


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	48.4300	29.81	-15.04	14.77	40.00	-25.23	QP
2	181.3200	24.06	-11.86	12.20	43.50	-31.30	QP
3	444.1900	26.22	-8.31	17.91	46.00	-28.09	QP
4	661.4699	24.99	-5.27	19.72	46.00	-26.28	QP
5	894.2700	27.49	-0.54	26.95	46.00	-19.05	QP
6	985.4500	27.96	-0.33	27.63	54.00	-26.37	QP

Remark:

1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)
2. Margin = Result - Limit

Test Mode:	M01	Polarity:	Vertical
Test Voltage:	AC 120V_60Hz (Adapter Input)		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	48.4300	48.78	-15.04	33.74	40.00	-6.26	QP
2	191.0200	27.55	-11.98	15.57	43.50	-27.93	QP
3	437.4000	24.13	-8.51	15.62	46.00	-30.38	QP
4	718.7000	27.53	-3.97	23.56	46.00	-22.44	QP
5	885.5400	28.08	-0.68	27.40	46.00	-18.60	QP
6	997.0900	27.75	-0.17	27.58	54.00	-26.42	QP

Remark:

1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)

2. Margin = Result – Limit

**END OF REPORT**