

# FCC Test Report

## Test Report

On Behalf of

Anmei Health Technology (Shenzhen) Co., Ltd.

For

Intelligent Fast Heating Vibration Pad

Model No.: AMH05, AMH06, AMH07, AMH08, AMH09, MT-2433

FCC ID: 2BPZN-AMH05

**Prepared For:** Anmei Health Technology (Shenzhen) Co., Ltd.

Room 403, Building A, Zongtai Future City, No. 2007, Baoyuan Road, Xixiang Street, Bao'an District, Shenzhen, China

**Prepared By:** Shenzhen HUAK Testing Technology Co., Ltd.

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

**Date of Test:** May 08, 2025 ~ May 30, 2025

**Date of Report:** May 30, 2025

**Report Number:** HK2505082359-E

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Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

## Test Result Certification

**Applicant's Name** ..... : Anmei Health Technology (Shenzhen) Co., Ltd.

Address ..... : Room 403, Building A, Zongtai Future City, No. 2007, Baoyuan Road, Xixiang Street, Bao'an District, Shenzhen, China

**Manufacturer's Name** ..... : Anmei Health Technology (Shenzhen) Co., Ltd.

Address ..... : Room 403, Building A, Zongtai Future City, No. 2007, Baoyuan Road, Xixiang Street, Bao'an District, Shenzhen, China

### Product Description

Trade Mark ..... : N/A

Product Name ..... : Intelligent Fast Heating Vibration Pad

Model and/or Type Reference ..... : AMH05, AMH06, AMH07, AMH08, AMH09, MT-2433

### 47 CFR FCC Part 15 Subpart C 15.247

**Standards** ..... : **KDB 558074 D01 15.247 Meas Guidance v05r02**  
**ANSI C63.10: 2013**

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**Date of Test** ..... :

Date (s) of Performance of Tests ..... : **May 08, 2025 ~ May 30, 2025**

Date of Issue ..... : **May 30, 2025**

Test Result ..... : **Pass**

Testing Engineer



Len Liao

Technical Manager



Sliver Wan

Authorized Signatory



Jason Zhou

## Contents

<b>1</b>	<b>Test Summary .....</b>	<b>5</b>
1.1	Test Description.....	5
1.2	Measurement Uncertainty .....	6
1.3	Information of the Test Laboratory .....	6
<b>2</b>	<b>General Information.....</b>	<b>7</b>
2.1	General Description of EUT .....	7
2.2	Description of Test Conditions .....	9
2.3	Description of Test Setup .....	10
2.4	Description of Support Units.....	11
<b>3</b>	<b>Equipments List for All Test Items.....</b>	<b>12</b>
<b>4</b>	<b>Test Result.....</b>	<b>13</b>
4.1	Antenna Requirement.....	13
4.2	AC Conduction Emissions Measurement.....	14
4.3	Radiated Emissions Measurement.....	18
4.4	Maximum Output Power Measurement.....	27
4.5	Power Spectral Density .....	28
4.6	6dB Bandwidth .....	31
4.7	Occupied Bandwidth.....	34
4.8	Band Edge.....	35
4.9	Conducted Spurious Emissions .....	37
<b>5</b>	<b>Test Setup Photos .....</b>	<b>41</b>
<b>6</b>	<b>Photos of the EUT.....</b>	<b>43</b>

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## \*\* Modified History \*\*

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	May 30, 2025	Jason Zhou
		HUAK TESTING	
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## 2 General Information

## 2.1 General Description of EUT

EUT Name:	Intelligent Fast Heating Vibration Pad
Model No:	AMH05
Series Model:	AMH06, AMH07, AMH08, AMH09, MT-2433
Model Difference:	All model's the function, software and electric circuit are the same, only with a product model named different. Test sample model: AMH05.
Trade Mark:	N/A
Operation Frequency:	2402 MHz to 2480 MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Hardware Version:	V1.0
Software Version:	V1.0
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Power Supply:	DC5V From Type-C or DC3.7V From Battery
Note:	
1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.	
2. Antenna gain Refer to the antenna specifications.	
3. The cable loss data is obtained from the supplier.	
4. The test results in the report only apply to the tested sample.	

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**Note:**

1. All the test modes can be supply by button battery, only the result of the worst case was recorded in the report if no any records.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

<b>Description of Channel</b>					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454		
13	2428	27	2456		

The EUT has been operated in modulations: GFSK independently.

No.	<b>Test Mode Description</b>
1	Low channel TX
2	Middle channel TX
3	High channel TX

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## 2.2 Description of Test Conditions

### (1) E.U.T. test conditions:

For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

### (2) Frequency range of radiated measurements:

The test range will be up to the tenth harmonic of the highest fundamental frequency.

### (3) Pre-test the EUT in all transmitting mode at the lowest (2402 MHz), middle (2440 MHz) and highest (2480 MHz) channel with different data packet and conducted to determine the worst-case mode, only the worst-case results are recorded in this report.

### (4) Mode Test Duty Cycle

Mode	Duty Cycle
BT-LE(1Mbps)	0.876



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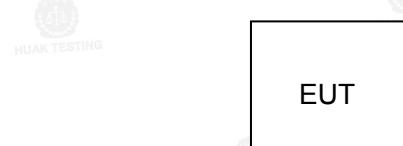
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## 2.3 Description of Test Setup

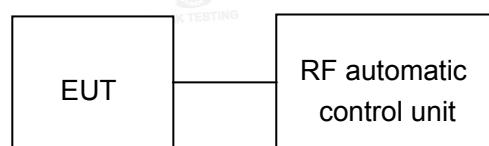
## Operation of EUT during AC Conducted testing and below 1GHz Radiation testing:



### Operation of EUT during above 1GHz Radiation testing:



## Operation of EUT during RF Conducted testing



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.

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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	Trade Mark	Model/Type No.	Specification	Note
1	Intelligent Fast Heating Vibration Pad	N/A	AMH05	N/A	EUT
2	USB Cable	N/A	N/A	Length: 30cm	Accessory
3	Adapter	N/A	MDY-10-EH	Input: AC100-240V, 50/60Hz, 0.7A Output: DC5V/3A, 9V/3A, 12V/2.25A, 20V/1.35A	Peripheral

**Note:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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## 4 Test Result

## 4.1 Antenna Requirements

#### 4.1.1 Standard Requirements

## Standard Applicable

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

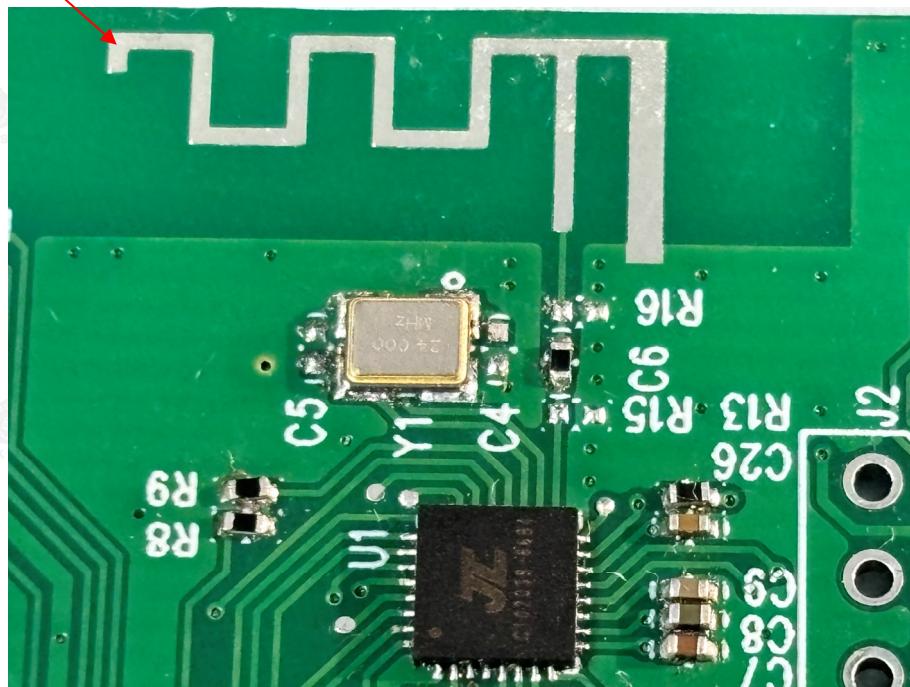
**Refer to statement below for compliance**

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. Further, this requirement does not apply to intentional radiators that must be professionally installed.

## Antenna Connected Construction

The antenna used in this product is a PCB Antenna, is a permanently attached antenna on the PCB. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.

#### 4.1.2 EUT Antenna



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## 4.2 AC Conduction Emissions Measurement

### 4.2.1 Applied Procedures / Limit

According to FCC CFR Title 47 Part 15 Subpart C Section 15.207, AC Power Line Conducted Emissions Limits for Licence-Exempt Radio Apparatus as below:

Frequency range (MHz)	Limit (dBuV)	
	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.

### 4.2.2 Test Procedure

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2013.
2. Support equipment, if needed, was placed as per ANSI C63.10:2013.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

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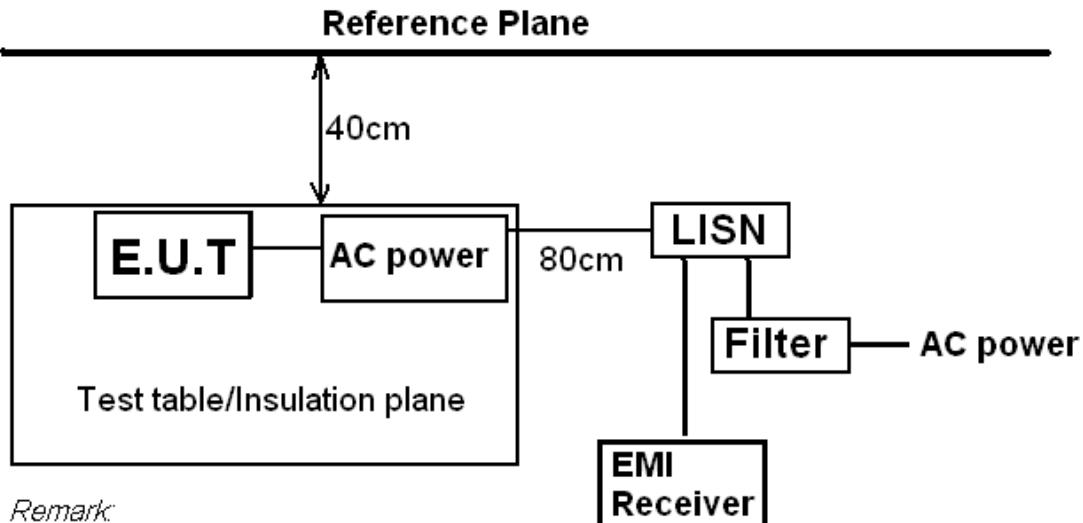


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### 4.2.3 Test Setup



Remark:

E.U.T: Equipment Under Test

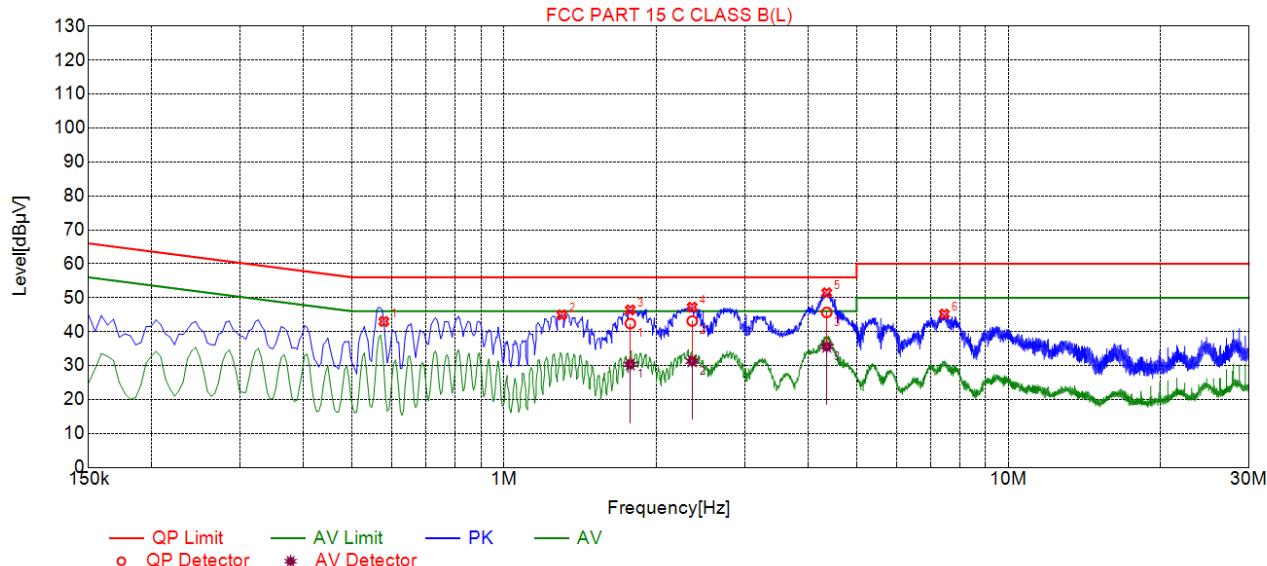
LISN: Line Impedance Stabilization Network

Test table height=0.8m

#### 4.2.4 Test Results

All modes have been tested, only the worst result was reported as below

## Test Specification: Line



## Suspected List

NO.	Freq. [MHz]	Level [dB $\mu$ V]	Factor [dB]	Limit [dB $\mu$ V]	Margin [dB]	Reading [dB $\mu$ V]	Detector	Type
1	0.5775	43.00	19.77	56.00	13.00	23.23	PK	L
2	1.3020	44.95	19.89	56.00	11.05	25.06	PK	L
3	1.7790	46.42	20.07	56.00	9.58	26.35	PK	L
4	2.3595	47.23	20.20	56.00	8.77	27.03	PK	L
5	4.3620	51.46	20.36	56.00	4.54	31.10	PK	L
6	7.4625	45.19	20.51	60.00	14.81	24.68	PK	L

## Final Data List

NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dB $\mu$ V]	QP Limit [dB $\mu$ V]	QP Margin [dB]	QP Reading [dB $\mu$ V]	AV Value [dB $\mu$ V]	AV Limit [dB $\mu$ V]	AV Margin [dB]	AV Reading [dB $\mu$ V]	Type
1	1.7790	20.07	42.40	56.00	13.60	22.33	30.36	46.00	15.64	10.29	L
2	2.3595	20.20	43.14	56.00	12.86	22.94	31.31	46.00	14.69	11.11	L
3	4.3620	20.36	45.67	56.00	10.33	25.31	35.60	46.00	10.40	15.24	L

Remark: Margin = Limit – Level

Correction factor = Cable loss + LISN insertion loss

Level=Test receiver reading + correction factor



### 4.3 Radiated Emissions Measurement

#### 4.3.1 Applied Procedures / Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Except when the requirements applicable to a given device state otherwise, emissions from license-exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission.

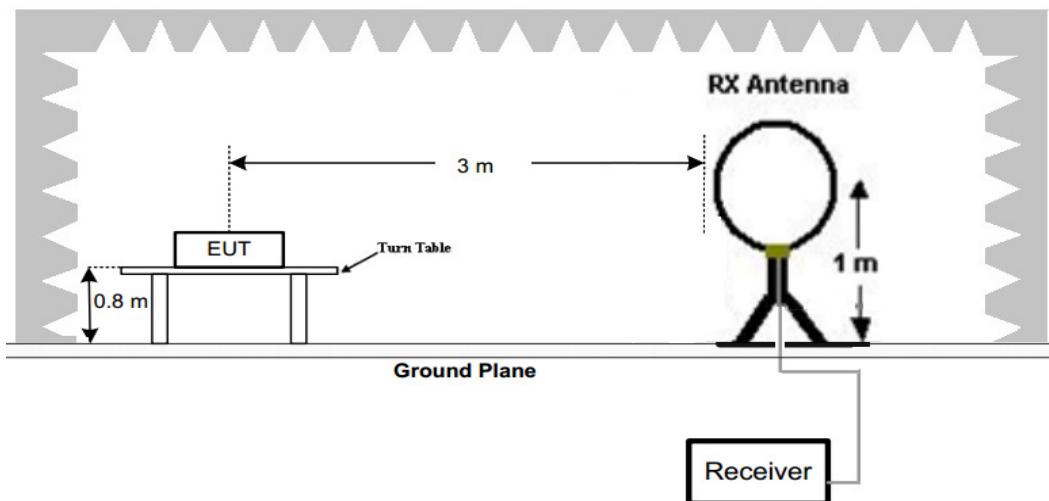
## Radiated emission limits

Frequency (MHz)	Distance (Meters)	Radiated (dB $\mu$ V/m)	Radiated ( $\mu$ V/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

### 4.3.2 Test Setup

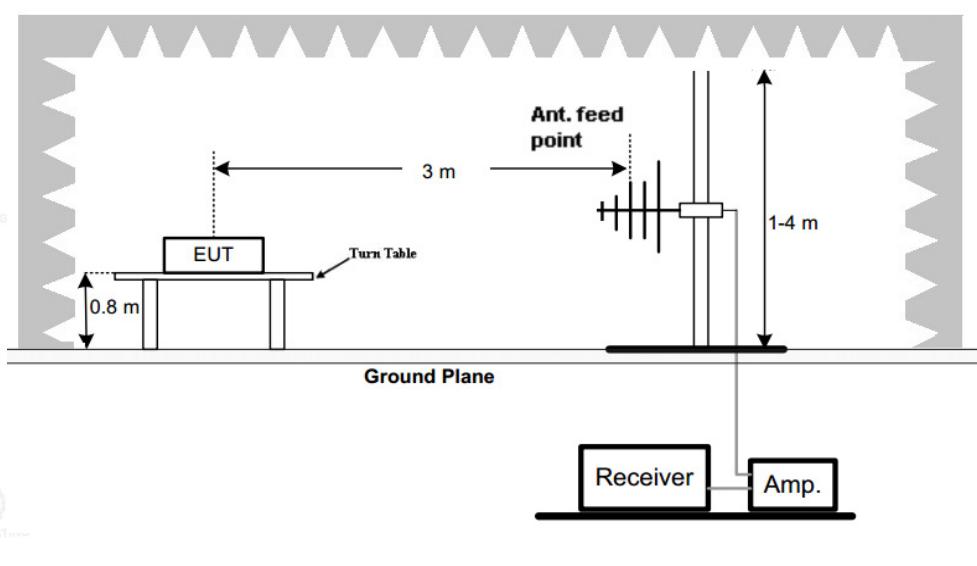
## Test Configuration:

### 1) 9 kHz to 30 MHz emissions:

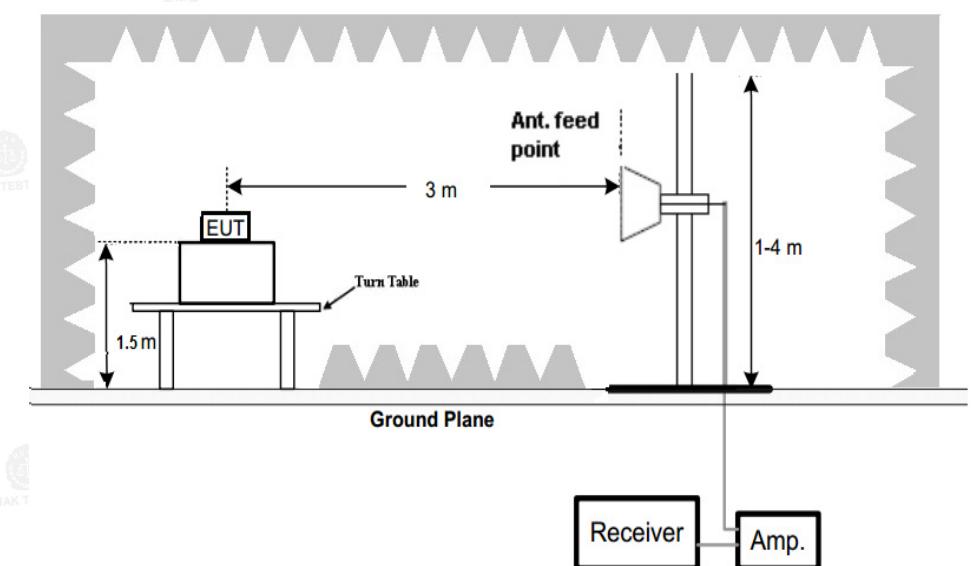


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## 2) 30 MHz to 1 GHz emissions:



## 3) 1 GHz to 25 GHz emissions:



### Test Procedure

1. The EUT was placed on turn table which is 0.8m above ground plane for below 1GHz test, and on a low permittivity and low loss tangent turn table which is 1.5m above ground plane for above 1GHz test.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0 degrees to 360 degrees to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.

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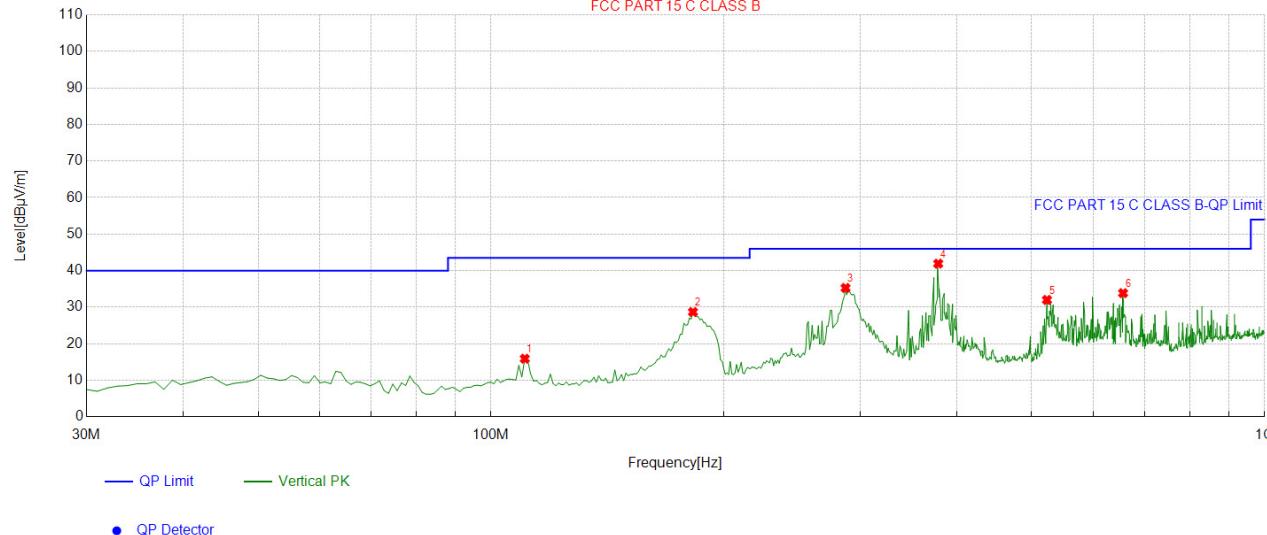
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Antenna polarity: V



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	110.5906	-14.50	30.41	15.91	43.50	27.59	100	334	Vertical
2	182.4424	-15.91	44.60	28.69	43.50	14.81	100	201	Vertical
3	287.3073	-12.28	47.55	35.27	46.00	10.73	100	287	Vertical
4	378.5786	-9.47	51.40	41.93	46.00	4.07	100	58	Vertical
5	523.2533	-7.11	39.11	32.00	46.00	14.00	100	133	Vertical
6	656.2763	-4.79	38.64	33.85	46.00	12.15	100	323	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

### Harmonics and Spurious Emissions

#### Frequency Range (9kHz-30MHz)

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Limit@3m (dB $\mu$ V/m)
--	--	--
--	--	--
--	--	--
--	--	--

**Note:** 1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

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**For 1GHz to 25GHz**

CH Low (2402MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
4804.00	53.87	-3.65	50.22	74.00	23.78	peak
4804.00	43.34	-3.65	39.69	54.00	14.31	Avg
7206.00	52.22	-0.95	51.27	74.00	22.73	peak
7206.00	42.07	-0.95	41.12	54.00	12.88	Avg

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
4804.00	53.83	-3.65	50.18	74.00	23.82	peak
4804.00	42.82	-3.65	39.17	54.00	14.83	Avg
7206.00	50.39	-0.95	49.44	74.00	24.56	peak
7206.00	43.71	-0.95	42.76	54.00	11.24	Avg

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

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Operation Mode: TX CH High (2480MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
2483.50	50.75	-5.81	44.94	74	29.06	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.53	-6.06	45.47	74	28.53	peak
2500.00	/	-6.06	/	54	/	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Remark:

1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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#### 4.4 Maximum Output Power Measurement

#### 4.4.1 Limit

The Maximum Peak Output Power Measurement is 30dBm.

#### 4.4.2 Test Procedure

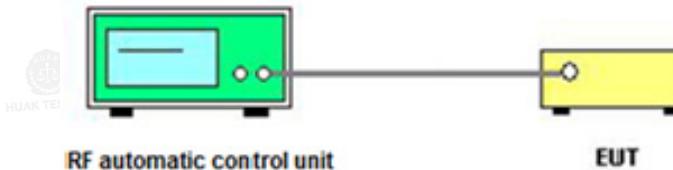
The maximum peak conducted output power may be measured using a broadband peak RF automatic control unit. The RF automatic control unit shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

The maximum Average conducted output power may be measured using a wideband RF automatic control unit with a thermocouple detector or equivalent. The RF automatic control unit shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

#### 4.4.3 Deviation from Standard

No deviation.

#### 4.4.4 Test Setup



## 4.4.5 Test Results

Channel	Channel Frequency (Mhz)	Maximum Peak Conducted Output Power (dBm)	Limit (dBm)	Result
Low	2402	1.90	30.00	Pass
Middle	2440	1.06		Pass
High	2480	0.26		Pass

Note: The test results including the cable loss.

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## 4.5 Power Spectral Density

#### 4.5.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

## 4.5.2 Test Procedure

Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

Set the RBW =10 kHz

Set the RBW = 10 kHz

Set the span to 1.5 times the DTS channel bandwidth.

Set the span to 100%  
Detector = peak.

Detector = peak.  
Sweep time = auto couple.

Sweep time = auto couple  
Trace mode = max hold.

Trace mode – max hold.  
Allow trace to fully stabilize.

Allow trace to fully stabilize  
Use the peak marker function

Use the peak marker function to determine the maximum power level. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat measurement.

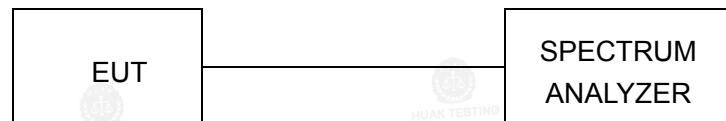
If measured value exceeds limit, reduce RBW (no less than 3 KHz) and repeat. The resulting peak PSD level must be 8 dBm.

The resulting peak PSD level must be 6 dBm.

### 4.5.3 Deviation from Standard

No deviation.

#### 4.5.4 Test Setup





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#### 4.5.5 Test Results

Channel	Channel frequency (MHz)	Result (dBm/10kHz)	10log (3/10)	Test Result (dBm/3kHz)
Low	2402	-8.30	-5.23	-13.53
Middle	2440	-9.19	-5.23	-14.42
High	2480	-9.79	-5.23	-15.02
Limit : 8dBm/3KHz				
Test Result (dBm/3kHz)= Result (dBm/10kHz)+10log (3/10)				
Test Result	PASS			

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### CH 39



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## 4.6 6dB Bandwidth

### 4.6.1 Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

### 4.6.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=100 KHz and VBW=300 KHz.

The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

1. Set RBW = 100 kHz.

2. Set the video bandwidth (VBW)  $\geq 3$  RBW.

3. Detector = Peak.

4. Trace mode = max hold.

5. Sweep = auto couple.

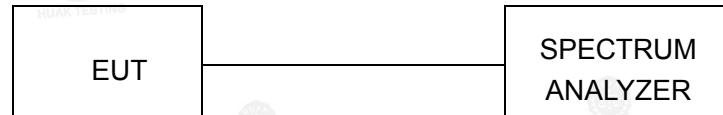
6. Allow the trace to stabilize.

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 6 dB relative to the maximum level measured in the fundamental emission.

### 4.6.3 Deviation from Standard

No deviation.

### 4.6.4 Test Setup



### 4.6.5 Test Result

Channel	Channel frequency (MHz)	6dB Bandwidth (MHz)	Limit (KHz)	Result
Low	2402	0.668	$\geq 500$	Pass
Middle	2440	0.692		Pass
High	2480	0.700		Pass

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## 4.7 Occupied Bandwidth

#### 4.7.1 Test Procedure

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

RBW=1% to 5% of the OBW

VBW=approximately 3 X RBW

Detector=Peak

### Trace Mode: Max Hold

Use the 99% power bandwidth function of the instrument to measure the Occupied Bandwidth and recorded.

#### 4.7.2 Deviation from Standard

No deviation.

### 4.7.3 Test Setup



#### 4.7.4 Test Result

N/A

## 4.8 Band Edge

### 4.8.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under FCC rules in section 5.8.1, the attenuation required shall be 30 dB instead of 20 dB.

## 4.8.2 Test Procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation,  $RBW \geq 1\%$  of the span,  $VBW \geq RBW$ , Sweep = auto, Detector function = peak, Trace = max hold.

### 4.8.3 Deviation from Standard

No deviation.

#### 4.8.4 Test Setup





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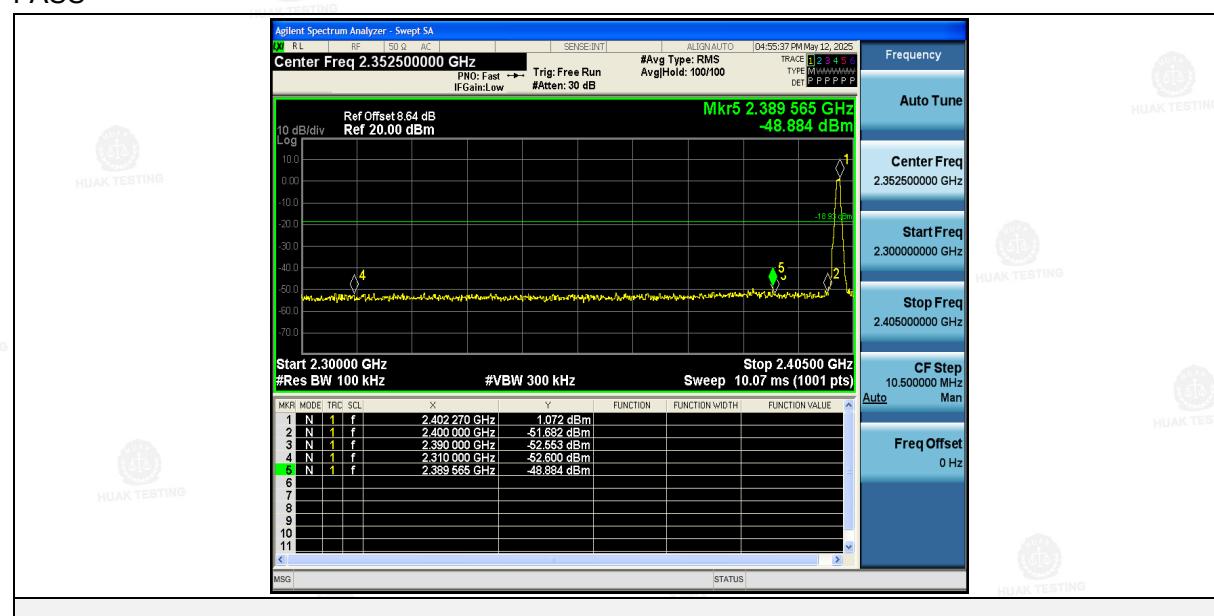
PASS

## 4.8.5 Test Results

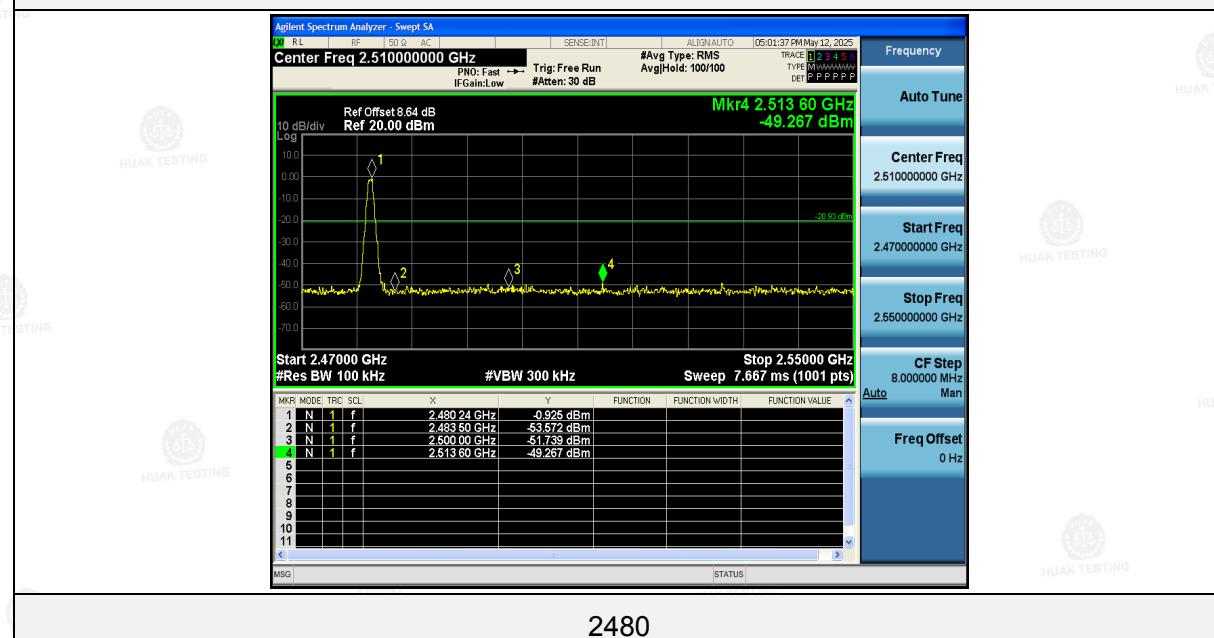
Page 36 of 43

Report No.: HK2505082359-E

PASS



2402



2480

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## 4.9 Conducted Spurious Emissions

#### 4.9.1 Applied Procedures / Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section (b)(3) of RSS 5.4(4), the attenuation required shall be 30 dB instead of 20 dB.

For below 30MHz, For 9KHz-150kHz, 150K-10MHz, We use the RBW 1KHz, 10KHz, So the limit need to calculated by "10lg(BW1/BW2)". for example For 9KHz-150kHz, RBW 1KHz, The Limit= the highest emission level-20-10log(100/1)= the highest emission level-40.

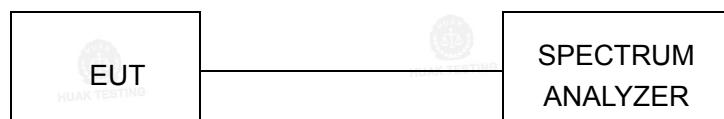
#### 4.9.2 Test Procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation,  $RBW \geq 1\%$  of the span,  $VBW \geq RBW$ , Sweep = auto, Detector function = peak, Trace = max hold.

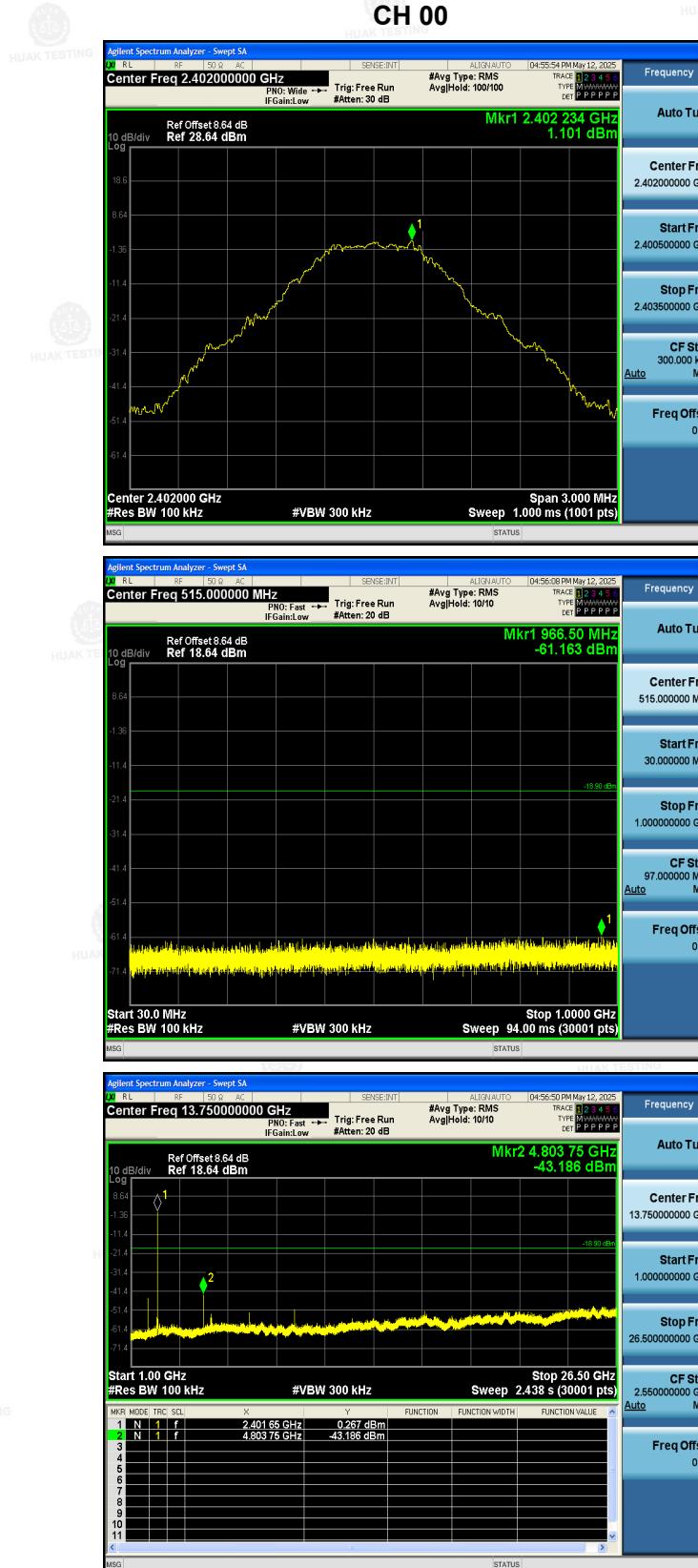
### 4.9.3 Deviation from Standard

No deviation.

#### 4.9.4 Test Setup



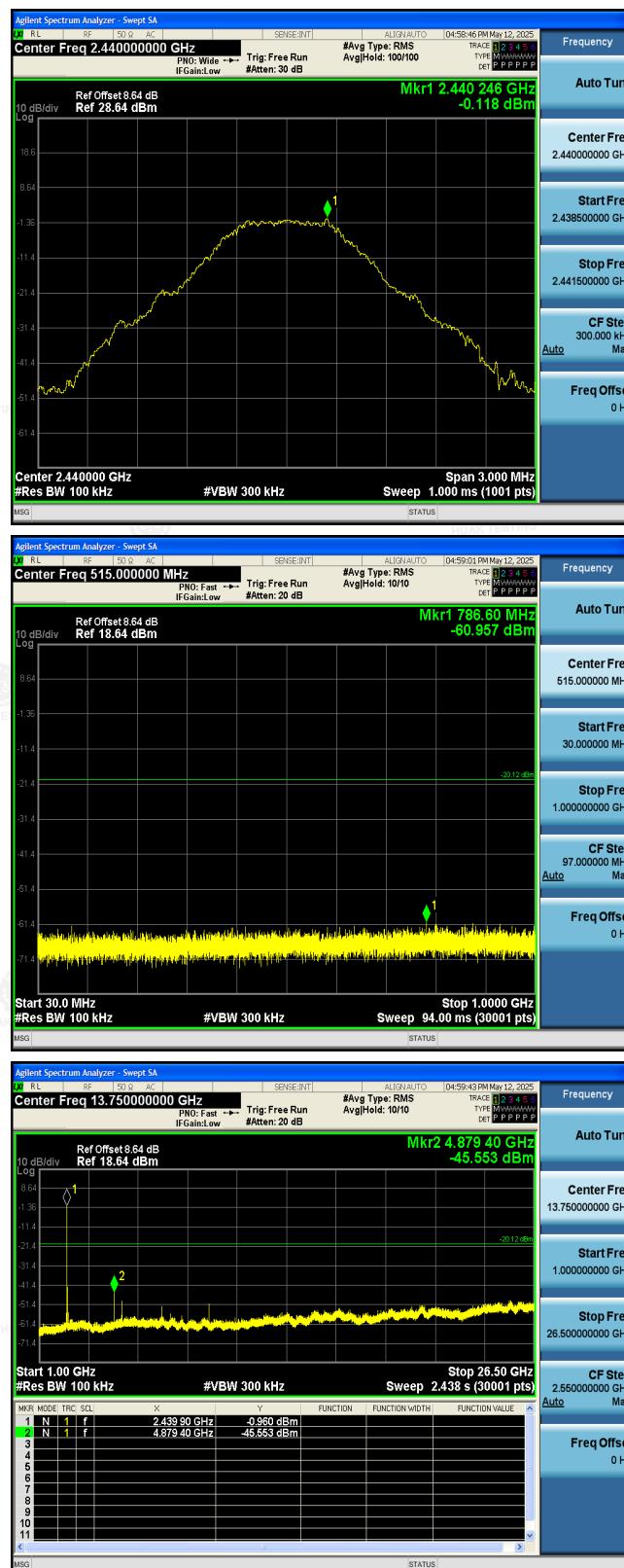
## 4.9.5 Test Results



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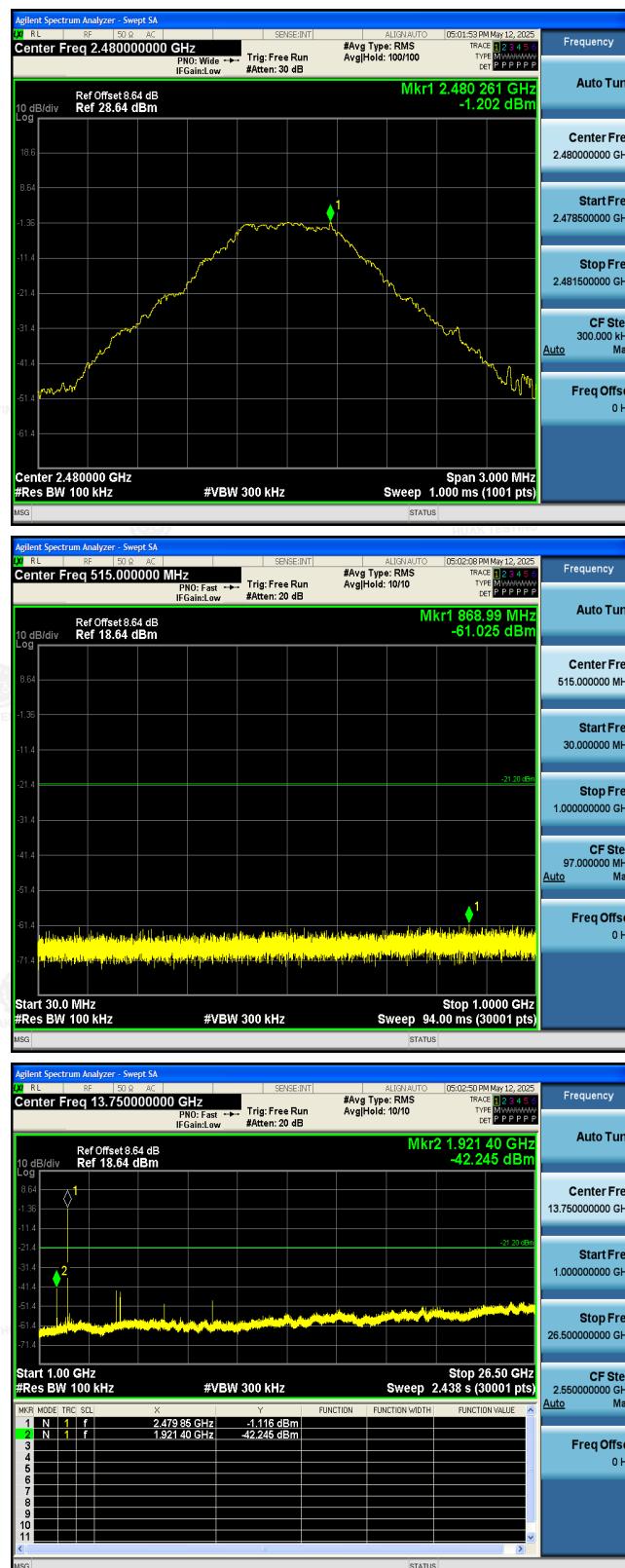
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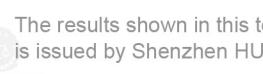
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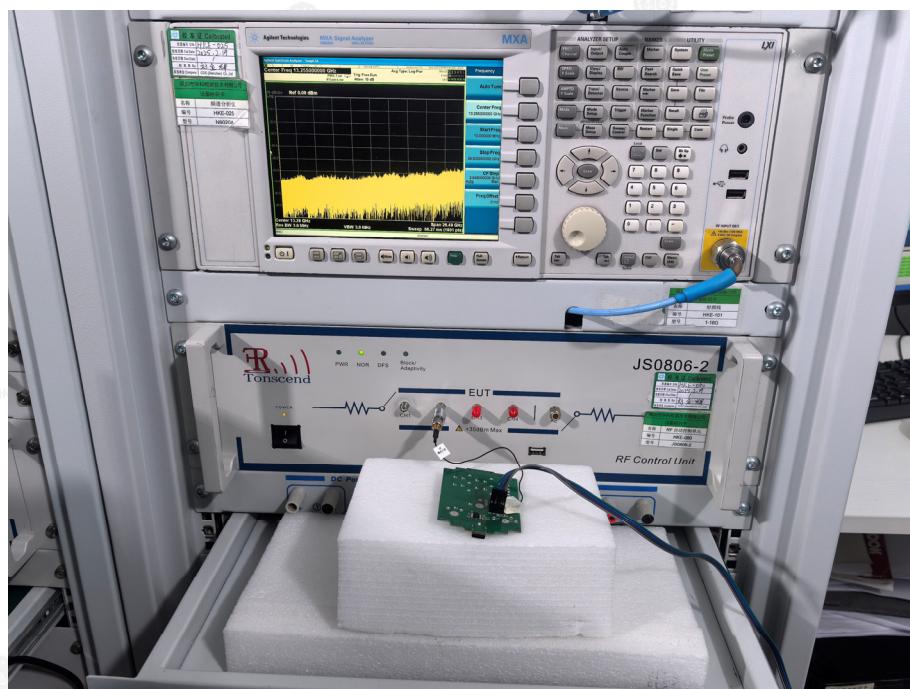


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### AC Conducted Emission



### RF Conducted Emission



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## 6 Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

-----End of test report-----



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