



# FCC RADIO TEST REPORT

**FCC ID** : 2AIMRRN12  
**Equipment** : Xiaomi Wi-Fi Range Extender AX1500  
**Brand Name** : xiaomi  
**Model Name** : RN12  
**Applicant** : Beijing Xiaomi Electronics Co., Ltd.  
Room 802, Floor 8, Building 5, No.15 KeChuang  
10th Road, Beijing Economic and Technological  
Development Zone, Beijing City, China.  
**Manufacturer** : Beijing Xiaomi Electronics Co., Ltd.  
Room 802, Floor 8, Building 5, No.15 KeChuang  
10th Road, Beijing Economic and Technological  
Development Zone, Beijing City, China.  
**Standard** : FCC Part 15 Subpart C §15.247

The product was received on Mar. 17, 2025 and testing was performed from Apr. 09, 2025 to Jun. 04, 2025. We, Sporton International Inc. Wensan Laboratory, 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010



## Table of Contents

<b>History of this test report.....</b>	<b>3</b>
<b>Summary of Test Result.....</b>	<b>4</b>
<b>1 General Description .....</b>	<b>5</b>
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT .....	7
1.3 Testing Location .....	7
1.4 Applicable Standards.....	7
<b>2 Test Configuration of Equipment Under Test .....</b>	<b>8</b>
2.1 Carrier Frequency and Channel .....	8
2.2 Test Mode.....	8
2.3 Connection Diagram of Test System.....	9
2.4 Support Unit used in test configuration and system .....	9
2.5 EUT Operation Test Setup .....	10
2.6 Measurement Results Explanation Example.....	10
<b>3 Test Result .....</b>	<b>11</b>
3.1 6dB and 99% Bandwidth Measurement .....	11
3.2 Output Power Measurement.....	12
3.3 Power Spectral Density Measurement .....	13
3.4 Conducted Band Edges and Spurious Emission Measurement .....	14
3.5 Radiated Band Edges and Spurious Emission Measurement .....	15
3.6 AC Conducted Emission Measurement.....	19
3.7 Antenna Requirements.....	21
<b>4 List of Measuring Equipment.....</b>	<b>22</b>
<b>5 Measurement Uncertainty .....</b>	<b>23</b>
<b>Appendix A. Conducted Test Results</b>	
<b>Appendix B. AC Conducted Emission Test Result</b>	
<b>Appendix C. Radiated Spurious Emission Test Result</b>	
<b>Appendix D. Duty Cycle Plots</b>	
<b>Appendix E. Setup Photographs</b>	



## History of this test report

Report No.	Version	Description	Issue Date
FR530461A	01	Initial issue of report	Jun. 20, 2025
FR530461A	02	Revise 1.1.1 Antenna Gain This report is an updated version, replacing the report issued on Jun. 20, 2025.	Jun. 26, 2025
FR530461A	03	Revise Product Feature of Equipment Under Test This report is an updated version, replacing the report issued on Jun. 26, 2025.	Jul. 02, 2025

## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	-
3.6	15.207	AC Conducted Emission	Pass	-
3.7	15.203	Antenna Requirement	Pass	-

**Conformity Assessment Condition:**

1. 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.
2. 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.

**Reviewed by: Lewis Ho**

**Report Producer: Hannah Yang**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature		
<b>General Specs</b> Wi-Fi 2.4GHz 802.11b/g/n and Wi-Fi 5GHz 802.11a/n/ac/ax.		
<b>Antenna Type</b> WLAN: PCB Antenna		
Antenna information		
<b>2400 MHz ~ 2483.5 MHz</b>	Peak Gain (dBi)	Ant. 1: 3.65 Ant. 2: 3.61

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

### 1.1.1 Antenna Directional Gain

#### <For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ .

$G_{ANT}$  is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

$N_{SS}$  = the number of independent spatial streams of data;

$N_{ANT}$  = the total number of antennas

$g_{j,k} = 10^{G_k/20}$  if the  $k$ th antenna is being fed by spatial stream  $j$ , or zero if it is not;  
 $G_k$  is the gain in dBi of the  $k$ th antenna.

As minimum  $N_{SS}=1$  is supported by EUT, the formula can be simplified as:

Directional gain =  $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$  dBi

Where  $G_1, G_2, \dots, G_N$  denote single antenna gain.

The directional gain "DG" is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4GHz	3.65	3.61	3.65	6.64	0.00	0.64

Calculation example:

If a device has two antenna,  $G_{ANT1} = 3.65$  dBi;  $G_{ANT2} = 3.61$  dBi

Directional gain of power measurement =  $\max(3.65, 3.61) + 0 = 3.65$  dBi

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[ 10^{(3.65 \text{ dBi} / 20)} + 10^{(3.61 \text{ dBi} / 20)} \right]^2 / 2 \right\}$$

$$= 6.64 \text{ dBi}$$

Power and PSD limit reduction = Composite gain – 6dBi, ( min = 0 )



## 1.2 Modification of EUT

No modifications made to the EUT during the testing.

## 1.3 Testing Location

<b>Test Site</b>	Sporton International Inc. Wensan Laboratory
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010 TEL: +886-3-327-0868 FAX: +886-3-327-0855
<b>Test Site No.</b>	<b>Sporton Site No.</b>
	TH05-HY, CO07-HY, 03CH21-HY

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

## 1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

### **Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

- 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 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		

### 2.2 Test Mode

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

The final test modes include the worst data rates for each modulation shown in the table below.

#### MIMO Antenna

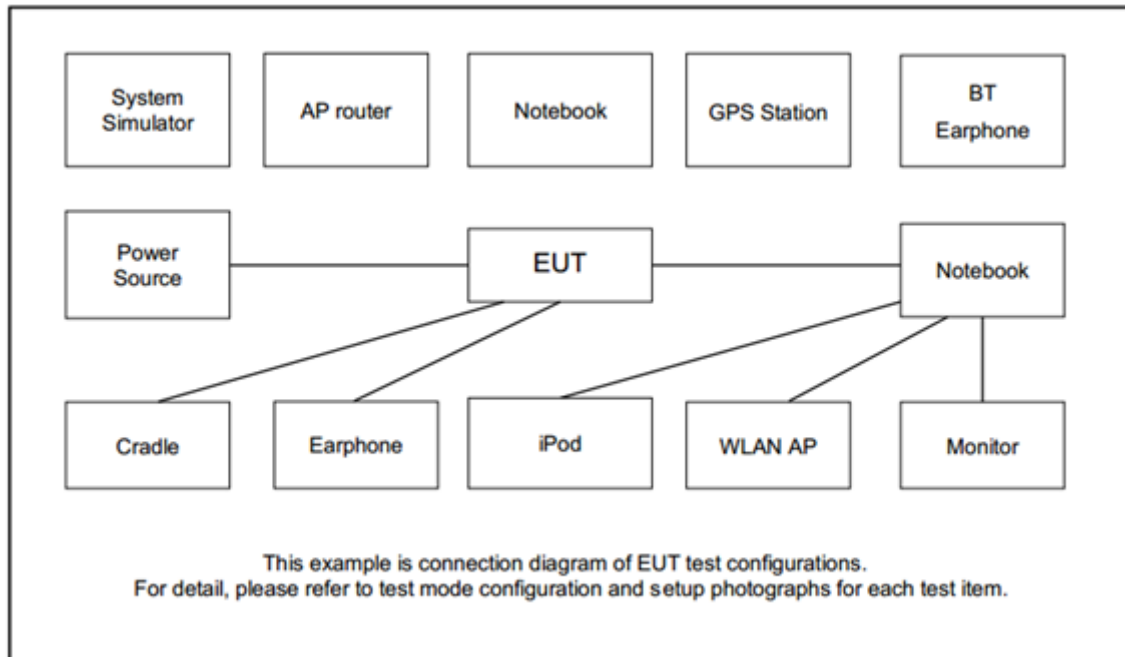
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

**Remark:** The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.



Test Cases	
AC Conducted Emission	Mode 1 : Lan Link + WiFi TX
<b>Remark:</b> The detailed Radiated test modes are shown in Appendix C.	

## 2.3 Connection Diagram of Test System



## 2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	Latitude 3420	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
2.	Notebook	Lenovo	IdeaPad Gaming 3 15IHU6	PD9AX201NG	N/A	N/A



## 2.5 EUT Operation Test Setup

The RF test items, utility “Tera Term Version4.95” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

### 3 Test Result

#### 3.1 6dB and 99% Bandwidth Measurement

##### 3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

##### 3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

##### 3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW)  $\geq 3 * RBW$ .
6. Measure and record the results in the test report.

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

## 3.2 Output Power Measurement

### 3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna with directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

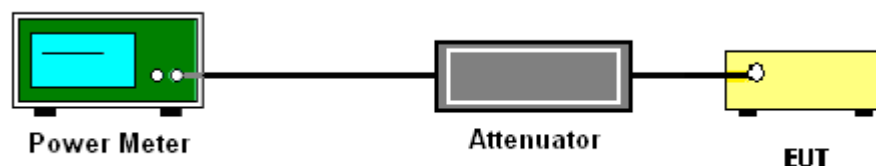
### 3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

### 3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Peak Output Power (Reporting Only)

Please refer to Appendix A.

### 3.2.6 Test Result of Average Output Power

Please refer to Appendix A.

### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

#### 3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

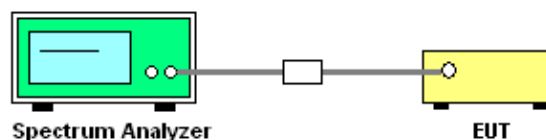
#### 3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (c): Measure and add  $10 \log(N_{\text{ANT}})$  dB.

With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity  $10 \log(N_{\text{ANT}})$  dB is added to each spectrum value before comparing to the emission limit. The addition of  $10 \log(N_{\text{ANT}})$  dB serves to apportion the emission limit among the  $N_{\text{ANT}}$  outputs so that each output is permitted to contribute no more than  $1/N_{\text{ANT}}^{\text{th}}$  of the PSD limit .

#### 3.3.4 Test Setup



#### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

### 3.4 Conducted Band Edges and Spurious Emission Measurement

#### 3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

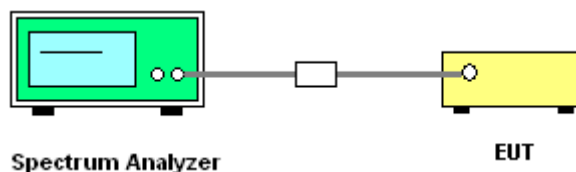
#### 3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

#### 3.4.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

#### 3.4.4 Test Setup



#### 3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Please refer to Appendix A.

### 3.5 Radiated Band Edges and Spurious Emission Measurement

#### 3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

#### 3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

#### 3.5.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is 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.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.

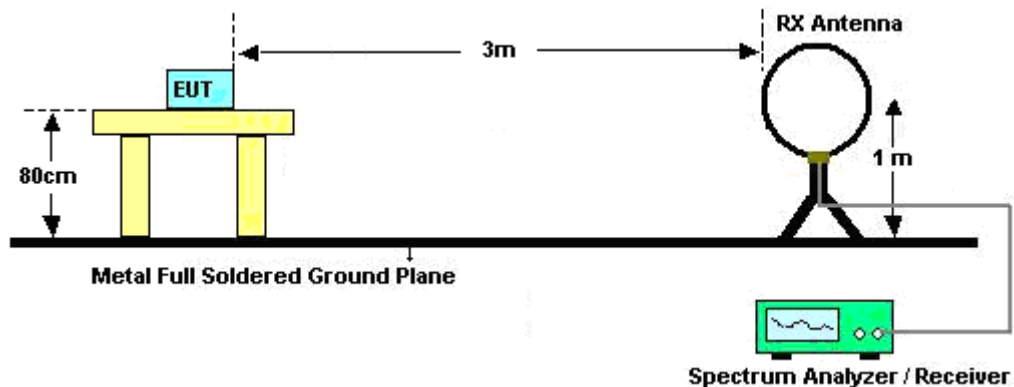
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.
8. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Set RBW = 100 kHz for  $f < 1$  GHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold;
  - (3) Set RBW = 1 MHz, VBW = 3 MHz for  $f \geq 1$  GHz for peak measurement.

For average measurement:

  - VBW = 10 Hz, when duty cycle is no less than 98 percent.
  - VBW  $\geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

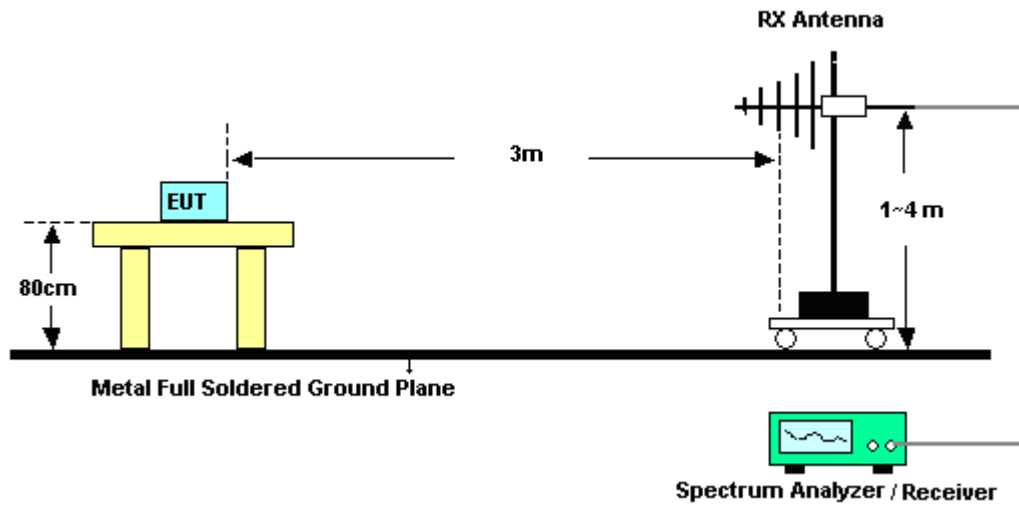
### 3.5.4 Test Setup

For radiated emissions below 30MHz

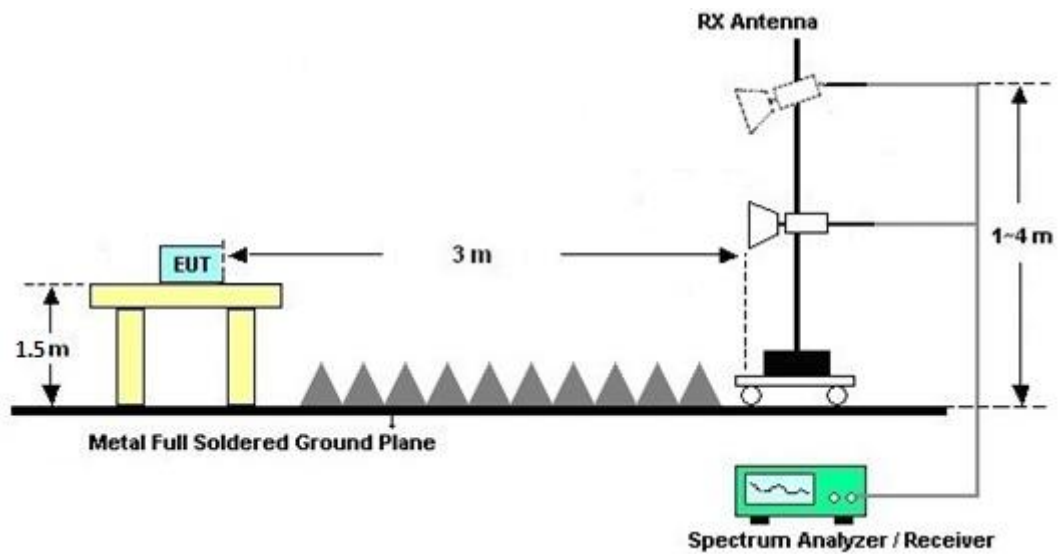




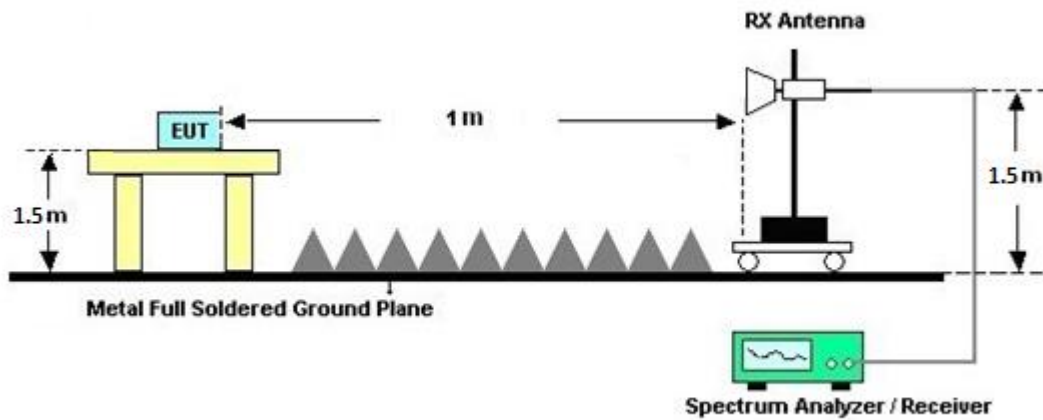
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



### 3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

### 3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

### 3.5.7 Duty Cycle

Please refer to Appendix D.

### 3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10<sup>th</sup> Harmonic)

Please refer to Appendix C.

### 3.6 AC Conducted Emission Measurement

#### 3.6.1 Limit 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 (dB $\mu$ V)	
	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.

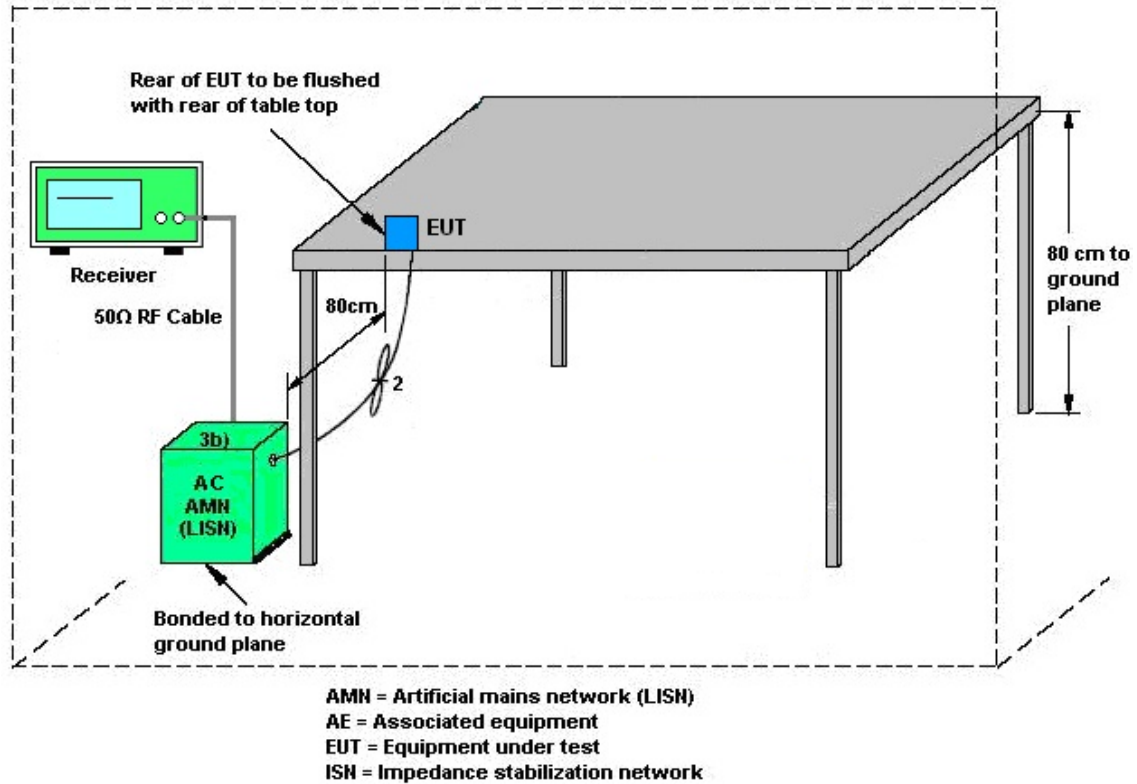
#### 3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

#### 3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

### 3.6.4 Test Setup



### 3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.7 Antenna Requirements**

### **3.7.1 Standard Applicable**

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### **3.7.2 Antenna Anti-Replacement Construction**

Antenna permanently attached.



## 4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug. 29, 2024	Apr. 11, 2025 ~ Jun. 04, 2025	Aug. 28, 2025	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Dec. 17, 2024	Apr. 11, 2025 ~ Jun. 04, 2025	Dec. 16, 2025	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A18E N	1GHz~18GHz	Jul. 11, 2024	Apr. 11, 2025 ~ Jun. 04, 2025	Jul. 10, 2025	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZB ECK	BBHA 9170	1223	18GHz~40GHz	Jun. 24, 2024	Apr. 11, 2025 ~ Jun. 04, 2025	Jun. 23, 2025	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 14, 2024	Apr. 11, 2025 ~ Jun. 04, 2025	Jul. 13, 2025	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 27, 2024	Apr. 11, 2025 ~ Jun. 04, 2025	Sep. 26, 2025	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Sep. 02, 2024	Apr. 11, 2025 ~ Jun. 04, 2025	Sep. 01, 2025	Radiation (03CH21-HY)
Spectrum Analyzer	Keysight	N9010B	MY62170358	10Hz~44GHz	Sep. 06, 2024	Apr. 11, 2025 ~ Jun. 04, 2025	Sep. 05, 2025	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 05, 2025	Apr. 11, 2025 ~ Jun. 04, 2025	Mar. 04, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,804612/2,803954/2	30MHz~40GHz	Aug. 12, 2024	Apr. 11, 2025 ~ Jun. 04, 2025	Aug. 11, 2025	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2024	Apr. 11, 2025 ~ Jun. 04, 2025	Oct. 20, 2025	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 11, 2025 ~ Jun. 04, 2025	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Apr. 11, 2025 ~ Jun. 04, 2025	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Apr. 11, 2025 ~ Jun. 04, 2025	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Apr. 11, 2025 ~ Jun. 04, 2025	N/A	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Jun. 04, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO 31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Jun. 04, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1036004	N/A	Jul. 04, 2024	Jun. 04, 2025	Jul. 03, 2025	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Jul. 04, 2024	Jun. 04, 2025	Jul. 03, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2024	Jun. 04, 2025	Aug. 22, 2025	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	Jun. 04, 2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Jun. 04, 2025	N/A	Conducted (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Apr. 09, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 09, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZB ECK	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Oct. 23, 2024	Apr. 09, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 03, 2025	Apr. 09, 2025	Mar. 02, 2026	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	Apr. 09, 2025	Mar. 23, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Apr. 09, 2025	Sep. 22, 2025	Conduction (CO07-HY)

## 5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.7 dB
---	--------

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	6.6 dB
---	--------

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.0 dB
---	--------

### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.7 dB
---	--------

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.3 dB
---	--------

**Appendix A. Test Result of Conducted Test Items**

Test Engineer:	Willy Chang	Temperature:	21~25	°C
Test Date:	2025/6/4~2025/6/7	Relative Humidity:	51~54	%



**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

2.4GHz Band MIMO										
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
11b	1Mbps	2	1	2412	13.90	13.92	10.07	10.08	0.50	Pass
11b	1Mbps	2	6	2437	13.89	13.97	10.05	10.09	0.50	Pass
11b	1Mbps	2	11	2462	13.96	13.99	10.07	10.06	0.50	Pass
11g	6Mbps	2	1	2412	16.76	17.05	16.30	15.92	0.50	Pass
11g	6Mbps	2	6	2437	16.77	17.07	16.30	16.04	0.50	Pass
11g	6Mbps	2	11	2462	16.76	17.06	16.30	15.92	0.50	Pass
HT20	MCS0	2	1	2412	18.19	18.21	16.53	17.02	0.50	Pass
HT20	MCS0	2	6	2437	18.16	18.20	16.53	17.02	0.50	Pass
HT20	MCS0	2	11	2462	18.16	18.17	16.53	17.01	0.50	Pass
HT40	MCS0	2	3	2422	35.53	35.56	35.02	35.05	0.50	Pass
HT40	MCS0	2	6	2437	35.53	35.60	33.82	35.07	0.50	Pass
HT40	MCS0	2	9	2452	35.55	35.58	35.05	35.06	0.50	Pass

**TEST RESULTS DATA**  
**Average Output Power**

2.4GHz Band MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	2	1	2412	18.96	18.93	21.96	30.00		3.65		25.61		36.00		Pass
11b	1Mbps	2	6	2437	19.34	18.67	22.03	30.00		3.65		25.68		36.00		Pass
11b	1Mbps	2	11	2462	19.72	19.39	22.57	30.00		3.65		26.22		36.00		Pass
11g	6Mbps	2	1	2412	13.88	13.73	16.82	30.00		3.65		20.47		36.00		Pass
11g	6Mbps	2	6	2437	12.45	12.20	15.34	30.00		3.65		18.99		36.00		Pass
11g	6Mbps	2	11	2462	13.78	13.57	16.69	30.00		3.65		20.34		36.00		Pass
HT20	MCS0	2	1	2412	12.19	12.06	15.14	30.00		3.65		18.79		36.00		Pass
HT20	MCS0	2	6	2437	11.35	11.57	14.47	30.00		3.65		18.12		36.00		Pass
HT20	MCS0	2	11	2462	13.31	13.06	16.20	30.00		3.65		19.85		36.00		Pass
HT40	MCS0	2	3	2422	13.67	12.79	16.26	30.00		3.65		19.91		36.00		Pass
HT40	MCS0	2	6	2437	12.40	12.33	15.38	30.00		3.65		19.03		36.00		Pass
HT40	MCS0	2	9	2452	11.88	11.65	14.78	30.00		3.65		18.43		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**Peak Output Power(Reporting Only)**

2.4GHz Band MIMO																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	2	1	2412	21.78	21.71	24.76	30.00		3.65		28.41		36.00		Pass
11b	1Mbps	2	6	2437	22.19	21.46	24.85	30.00		3.65		28.50		36.00		Pass
11b	1Mbps	2	11	2462	22.45	22.11	25.29	30.00		3.65		28.94		36.00		Pass
11g	6Mbps	2	1	2412	24.19	24.13	27.17	30.00		3.65		30.82		36.00		Pass
11g	6Mbps	2	6	2437	22.76	22.56	25.67	30.00		3.65		29.32		36.00		Pass
11g	6Mbps	2	11	2462	23.96	23.43	26.71	30.00		3.65		30.36		36.00		Pass
HT20	MCS0	2	1	2412	22.61	22.53	25.58	30.00		3.65		29.23		36.00		Pass
HT20	MCS0	2	6	2437	22.08	22.09	25.10	30.00		3.65		28.75		36.00		Pass
HT20	MCS0	2	11	2462	23.64	23.15	26.41	30.00		3.65		30.06		36.00		Pass
HT40	MCS0	2	3	2422	24.79	23.74	27.31	30.00		3.65		30.96		36.00		Pass
HT40	MCS0	2	6	2437	23.38	23.36	26.38	30.00		3.65		30.03		36.00		Pass
HT40	MCS0	2	9	2452	22.99	22.49	25.76	30.00		3.65		29.41		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

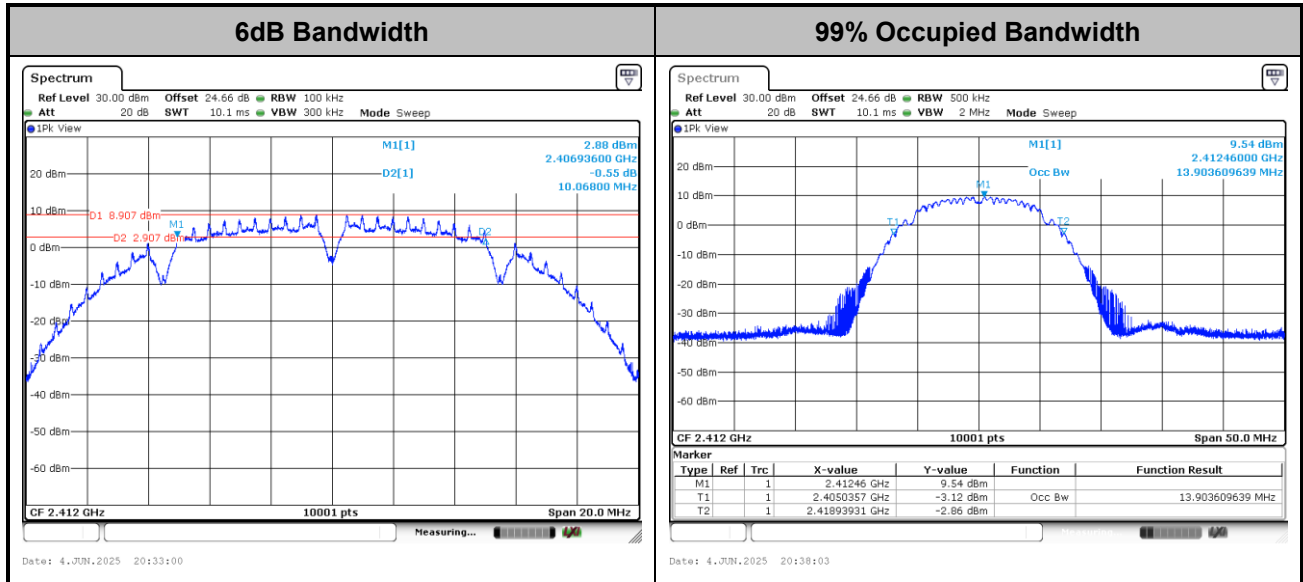
**TEST RESULTS DATA**  
**Peak Power Spectral Density**

2.4GHz Band MIMO												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	2	1	2412	-4.83	-5.13	-1.82	6.64		7.36		Pass
11b	1Mbps	2	6	2437	-4.46	-5.76	-1.45	6.64		7.36		Pass
11b	1Mbps	2	11	2462	-4.39	-4.75	-1.38	6.64		7.36		Pass
11g	6Mbps	2	1	2412	-12.28	-12.66	-9.27	6.64		7.36		Pass
11g	6Mbps	2	6	2437	-13.51	-14.22	-10.50	6.64		7.36		Pass
11g	6Mbps	2	11	2462	-11.91	-13.00	-8.90	6.64		7.36		Pass
HT20	MCS0	2	1	2412	-13.86	-13.67	-10.66	6.64		7.36		Pass
HT20	MCS0	2	6	2437	-14.33	-14.92	-11.32	6.64		7.36		Pass
HT20	MCS0	2	11	2462	-12.63	-12.81	-9.62	6.64		7.36		Pass
HT40	MCS0	2	3	2422	-15.00	-15.99	-11.99	6.64		7.36		Pass
HT40	MCS0	2	6	2437	-16.33	-17.04	-13.32	6.64		7.36		Pass
HT40	MCS0	2	9	2452	-17.62	-17.05	-14.04	6.64		7.36		Pass

Measured power density (dBm) has offset with cable loss.

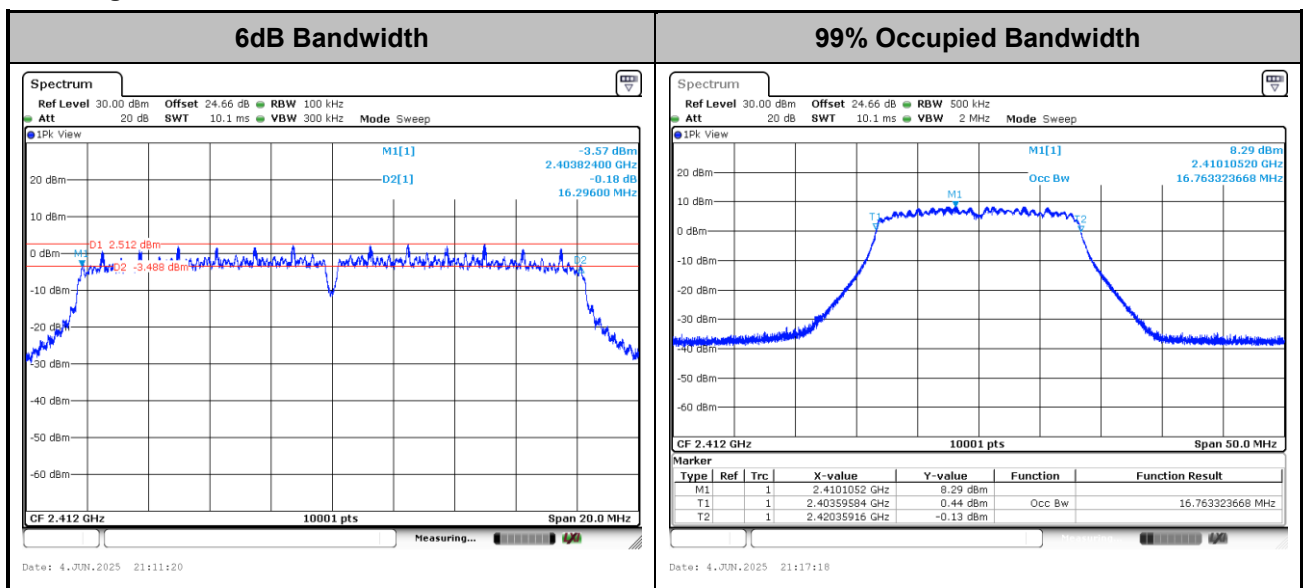
**6dB and 99% Occupied Bandwidth**

&lt;802.11b&gt;



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

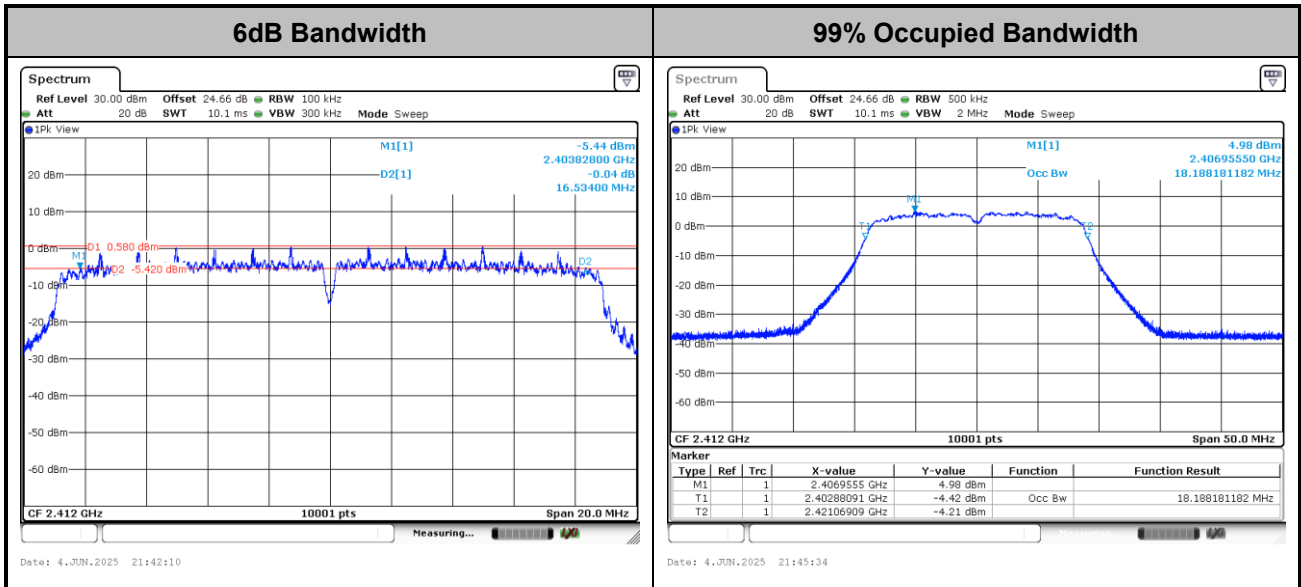
&lt;802.11g&gt;



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

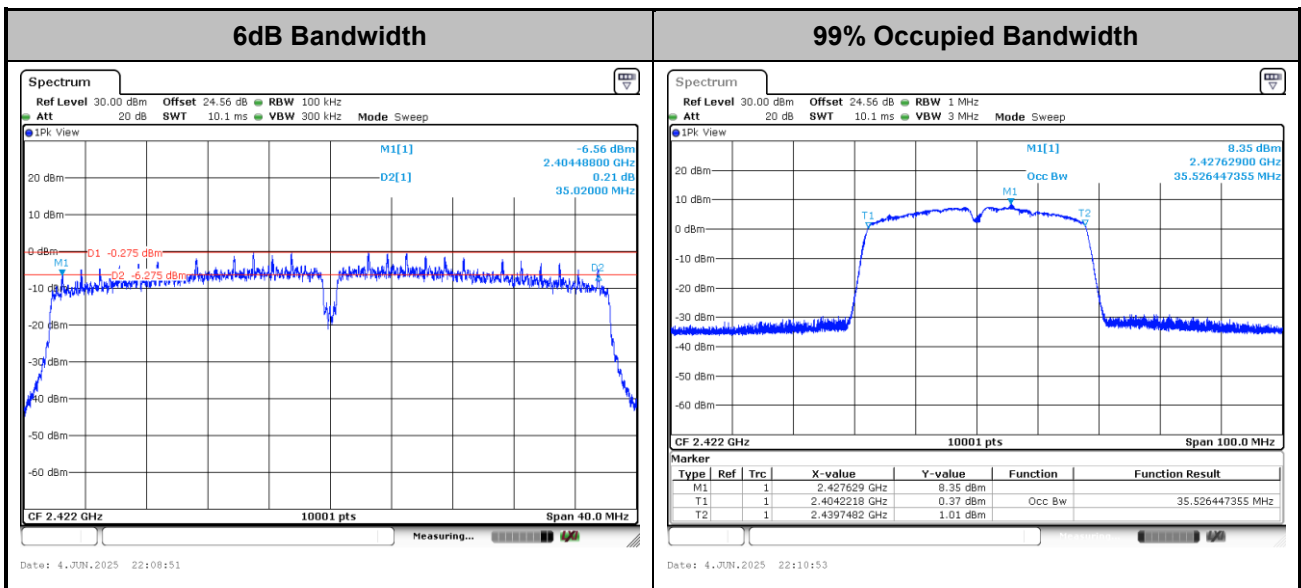


## &lt;802.11gN20&gt;



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

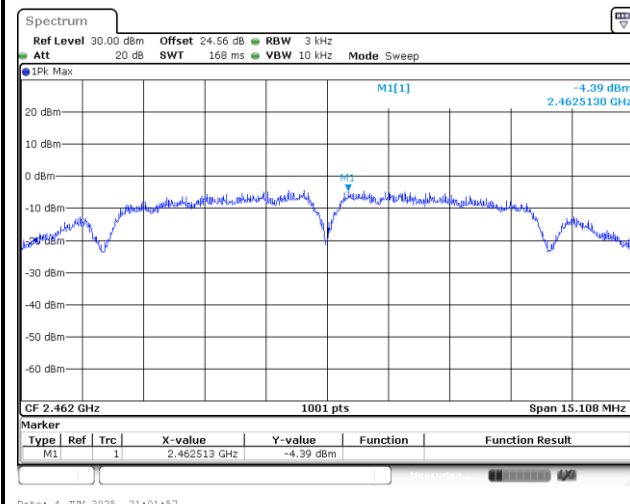
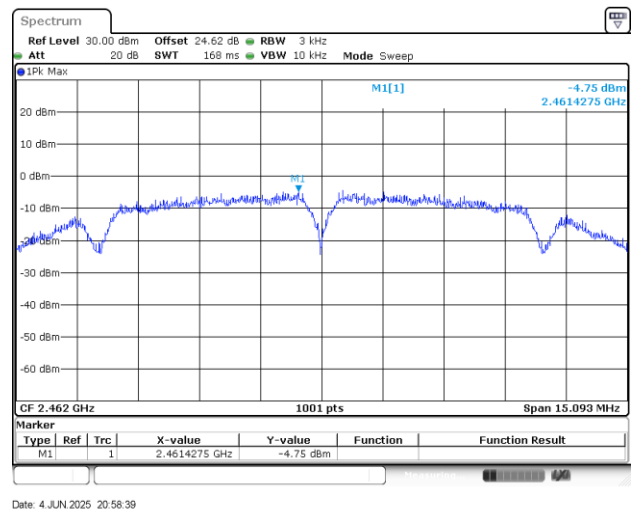
## &lt;802.11gN40&gt;



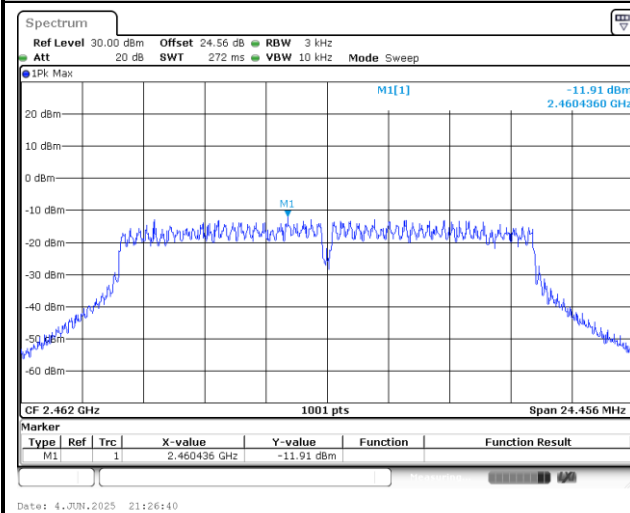
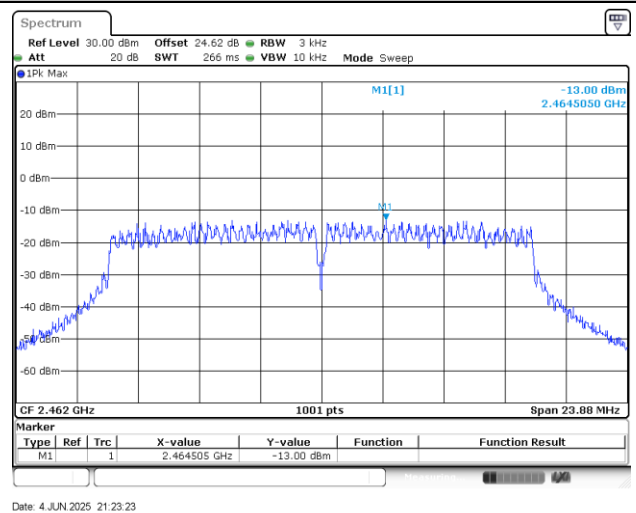
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

**Power Spectral Density(dBm/3kHz)**

&lt;802.11b&gt;

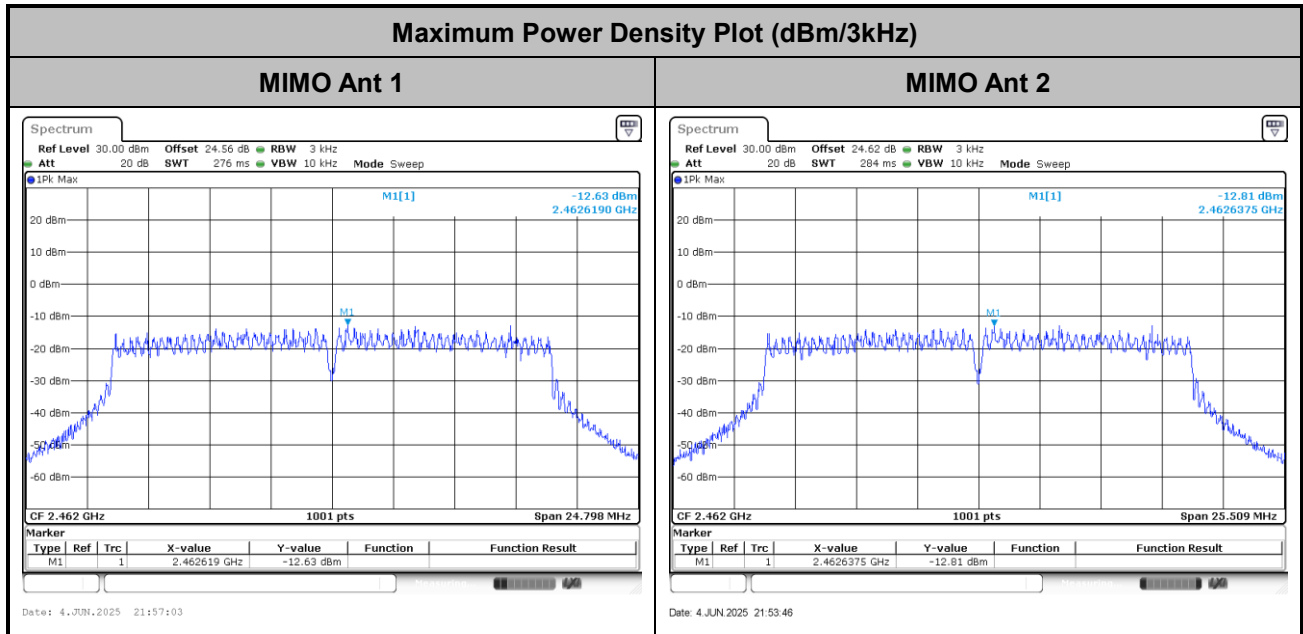
**Maximum Power Density Plot (dBm/3kHz)****MIMO Ant 1****MIMO Ant 2**

&lt;802.11g&gt;

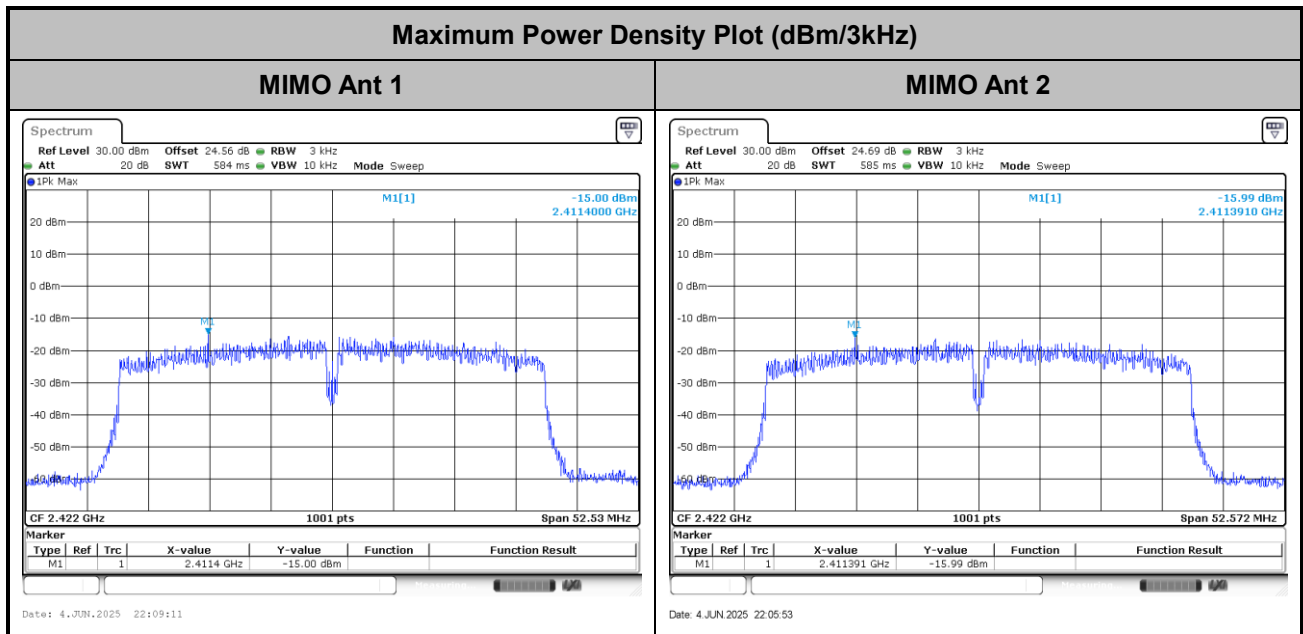
**Maximum Power Density Plot (dBm/3kHz)****MIMO Ant 1****MIMO Ant 2**



&lt;802.11gN20&gt;



&lt;802.11gN40&gt;



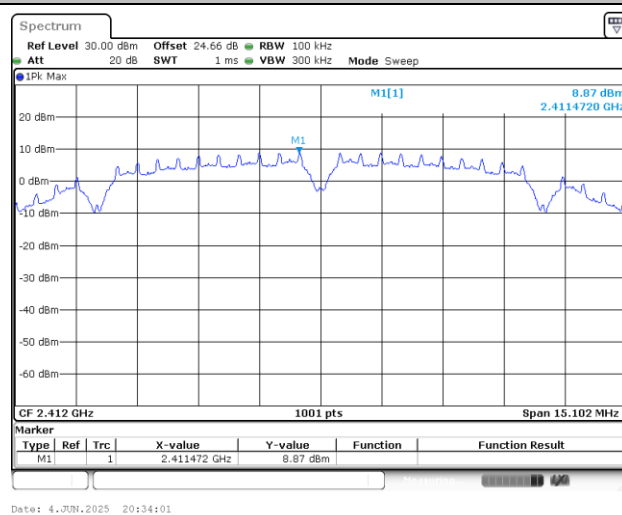
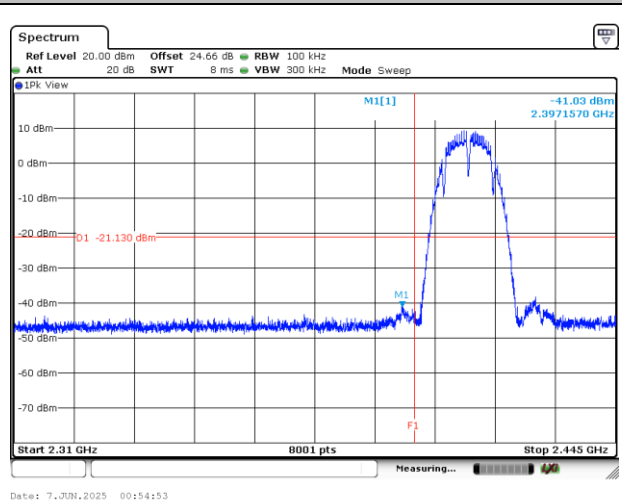
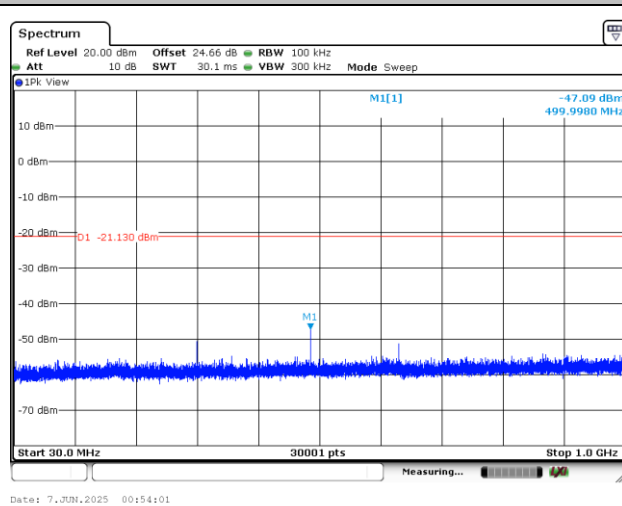
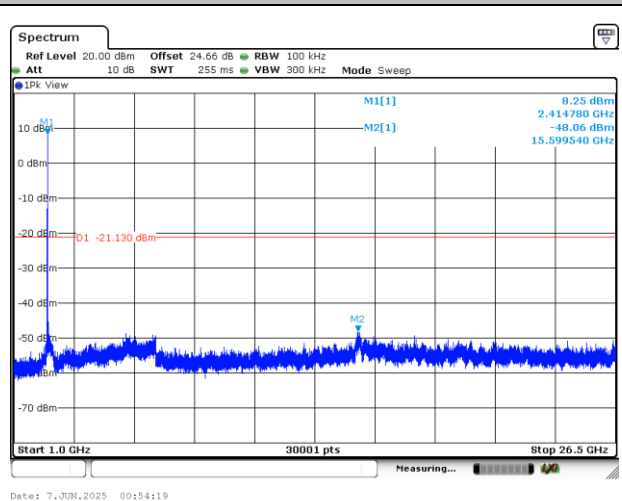


**Band Edges and Spurious Emission**

Number of TX = 2, Ant. 1 (Measured)

Test Mode : 802.11b

Test Channel : 01

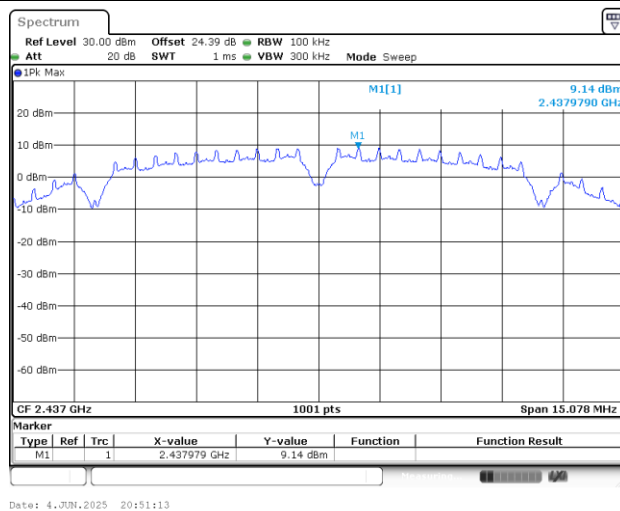
**100kHz PSD reference Level****Channel 01 Plot****Spurious Emission 30MHz~1GHz****Spurious Emission 1GHz~26.5GHz**



Test Mode : 802.11b

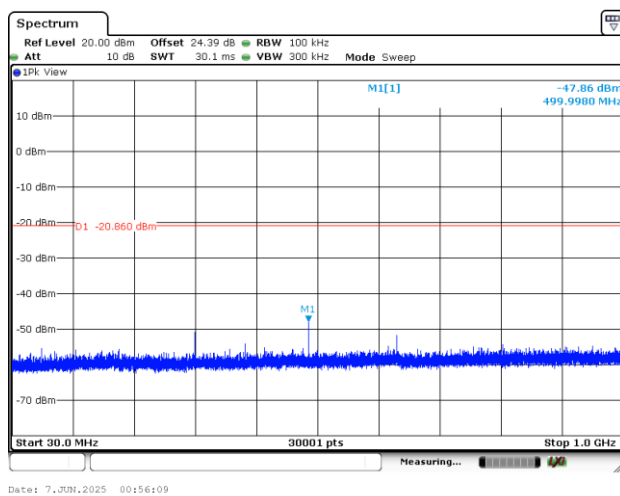
Test Channel : 06

## 100kHz PSD reference Level

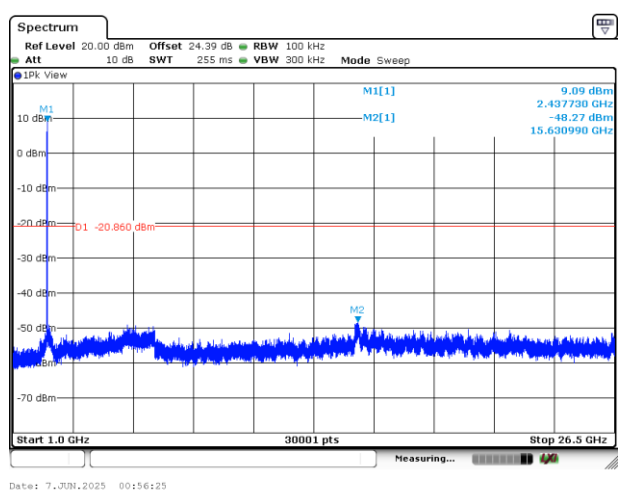


## Channel 06 Plot

## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

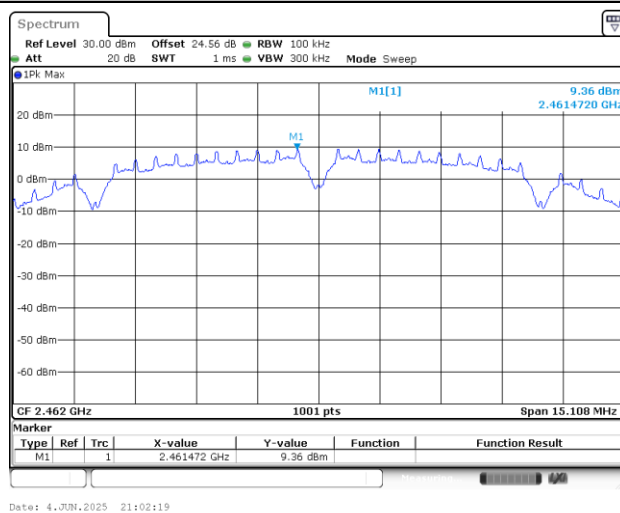




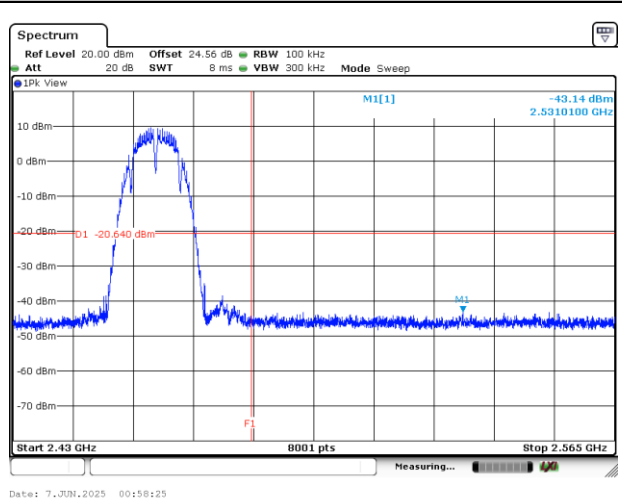
Test Mode : 802.11b

Test Channel : 11

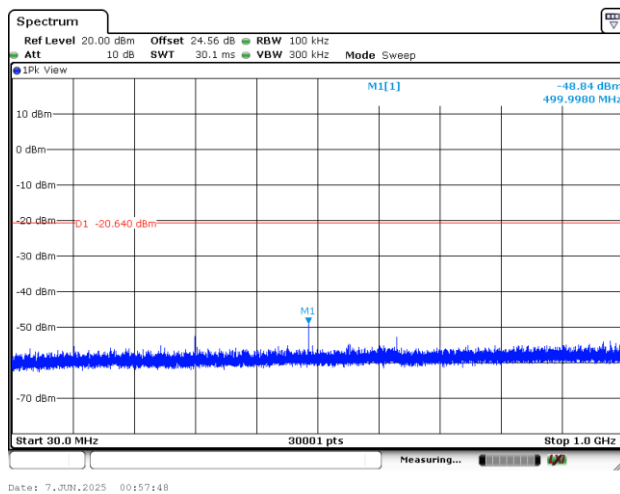
## 100kHz PSD reference Level



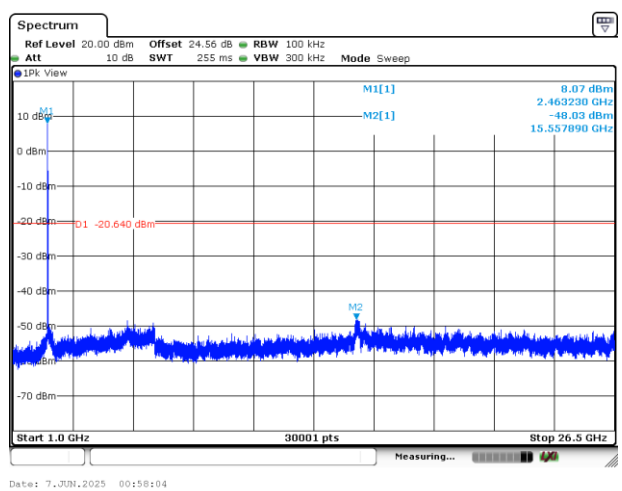
## Channel 11 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

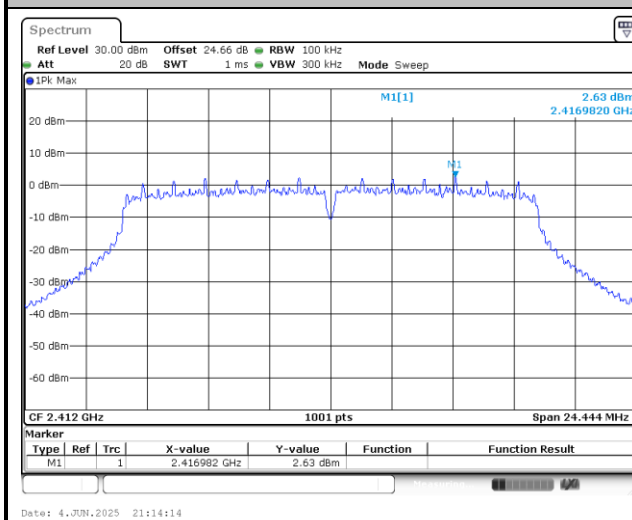




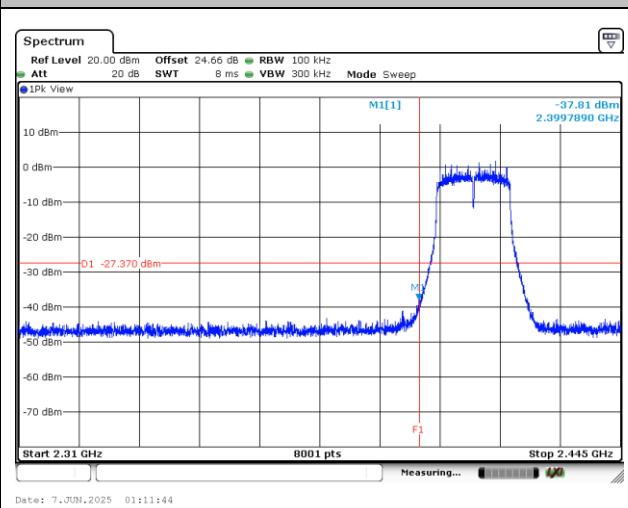
Test Mode : 802.11g

Test Channel : 01

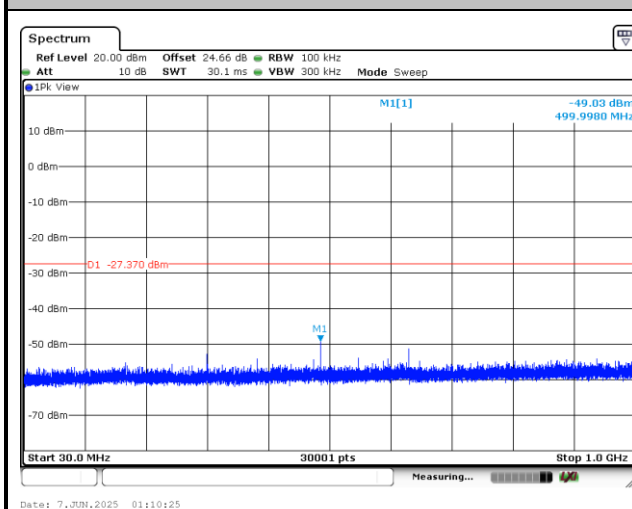
## 100kHz PSD reference Level



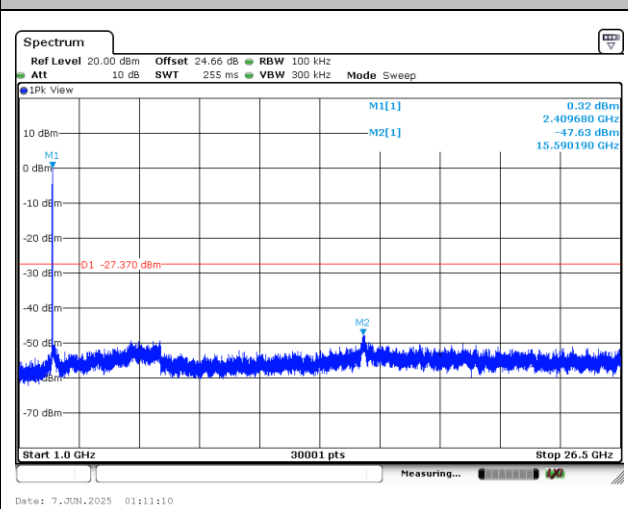
## Channel 01 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

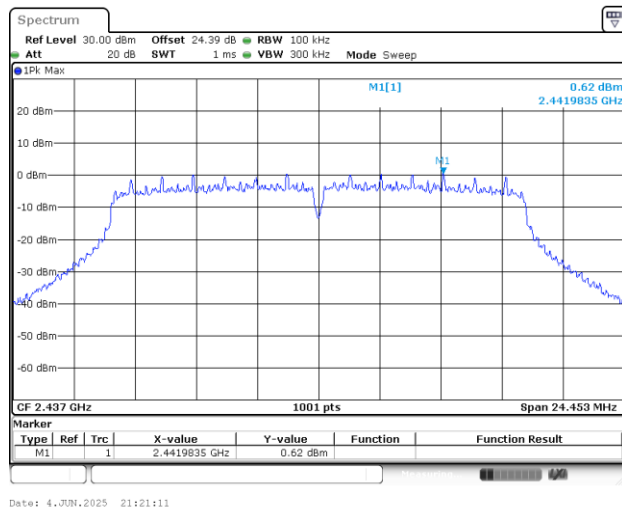




Test Mode : 802.11g

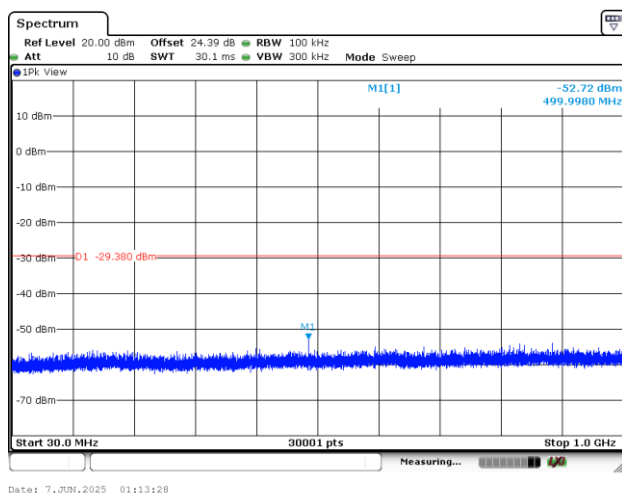
Test Channel : 06

## 100kHz PSD reference Level

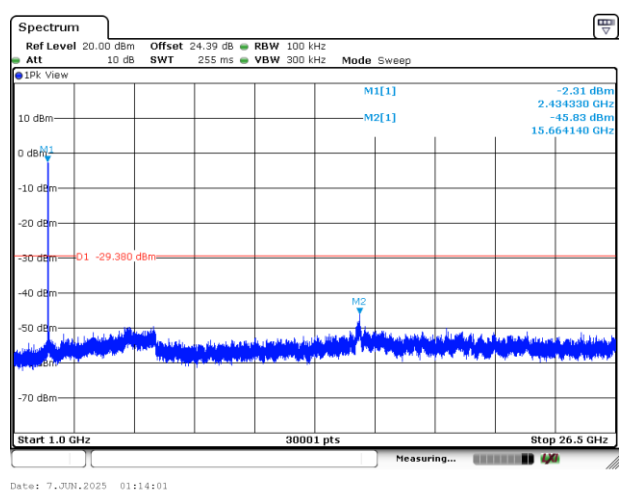


## Channel 06 Plot

## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

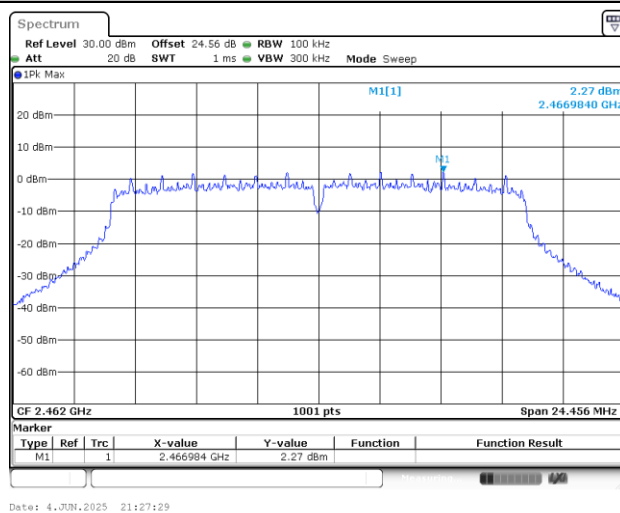




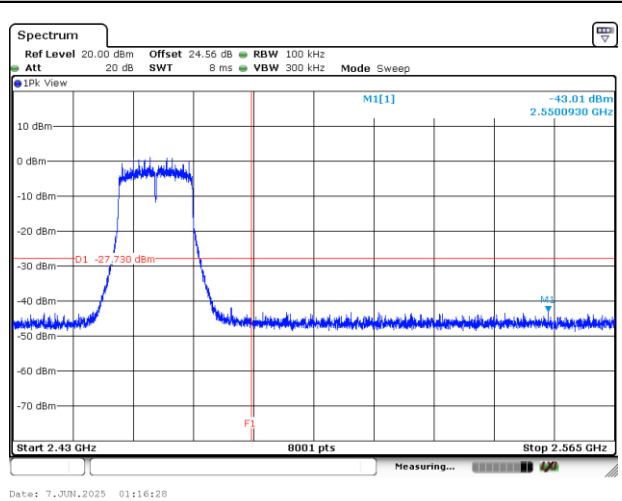
Test Mode : 802.11g

Test Channel : 11

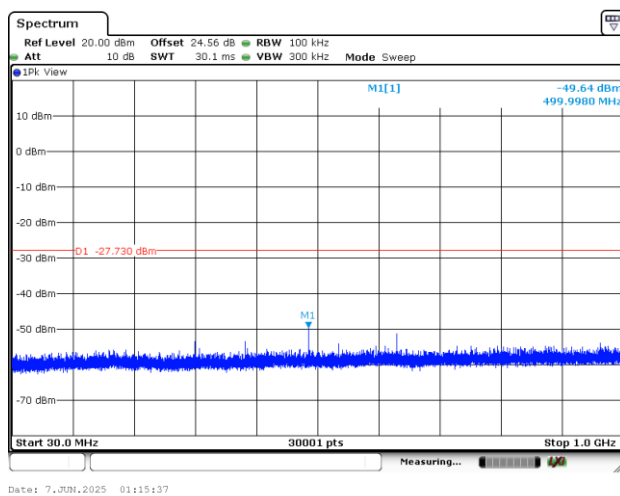
## 100kHz PSD reference Level



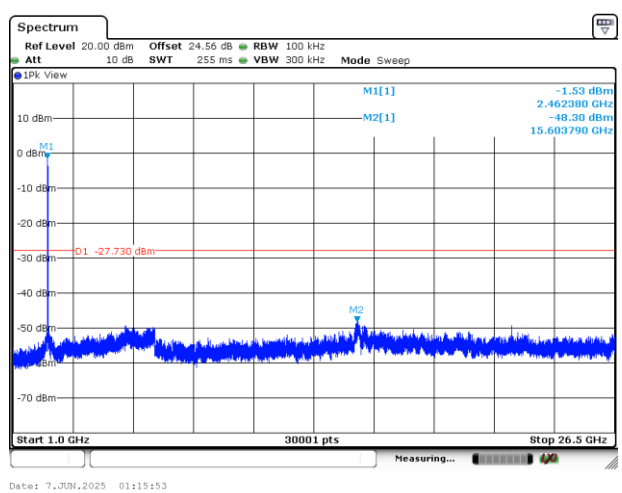
## Channel 11 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

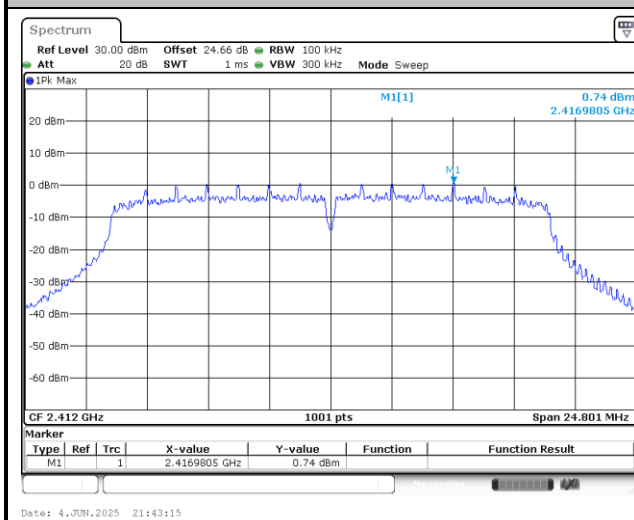




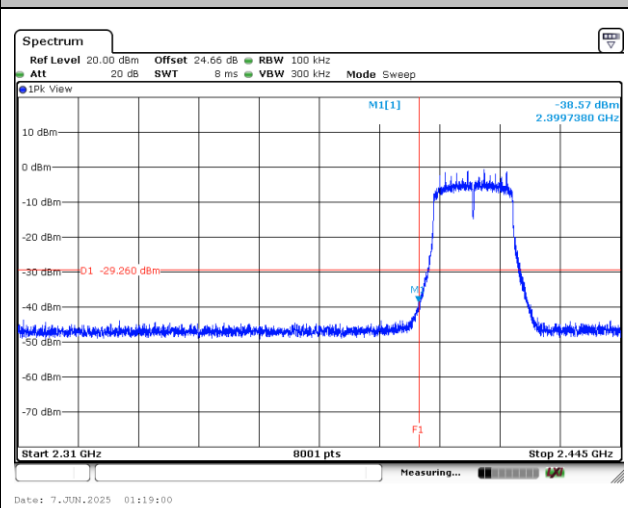
Test Mode : 802.11gN20

Test Channel : 01

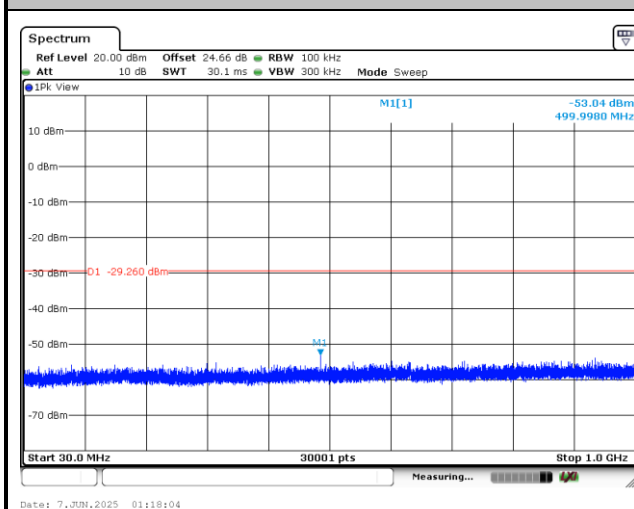
## 100kHz PSD reference Level



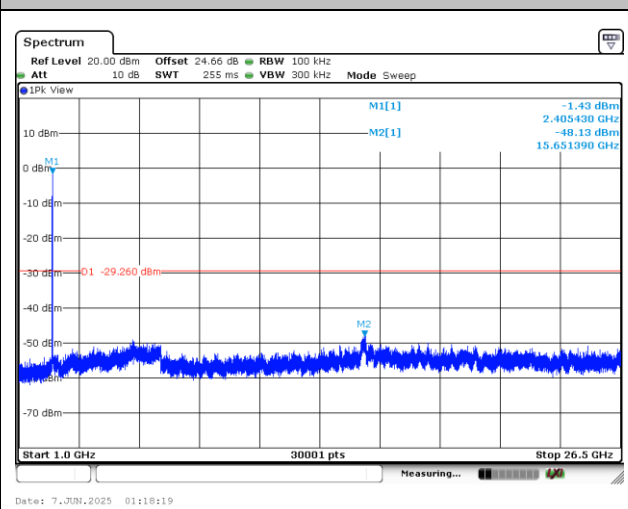
## Channel 01 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

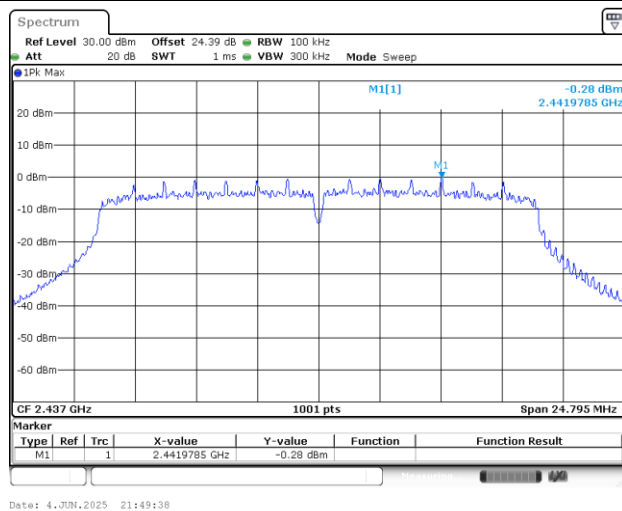




Test Mode : 802.11gN20

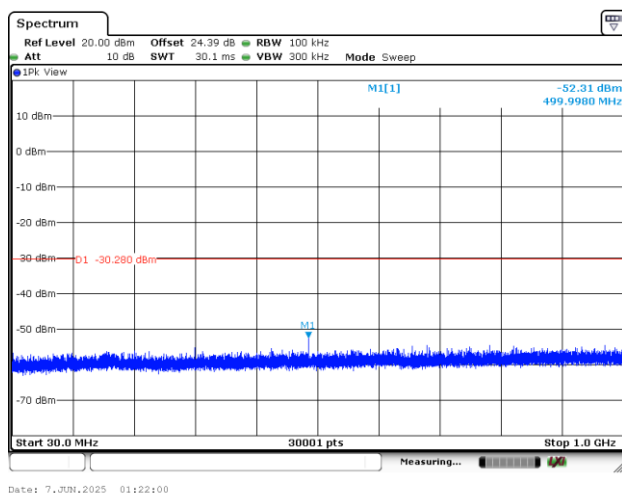
Test Channel : 06

## 100kHz PSD reference Level

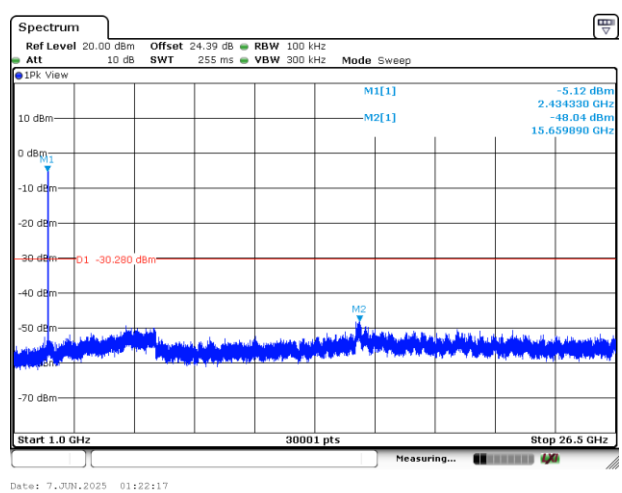


## Channel 06 Plot

## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz



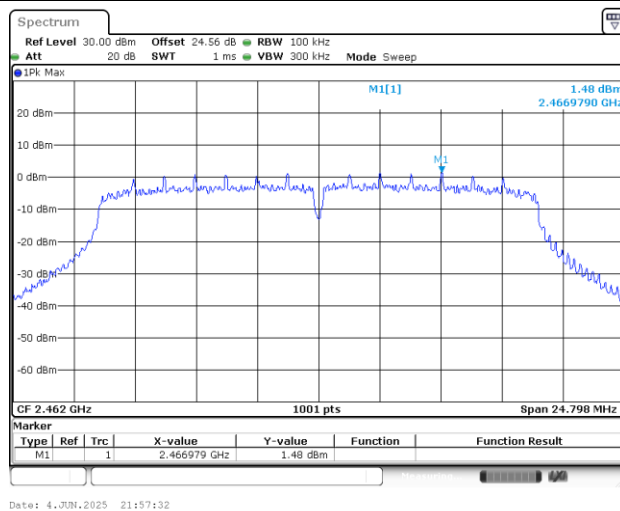




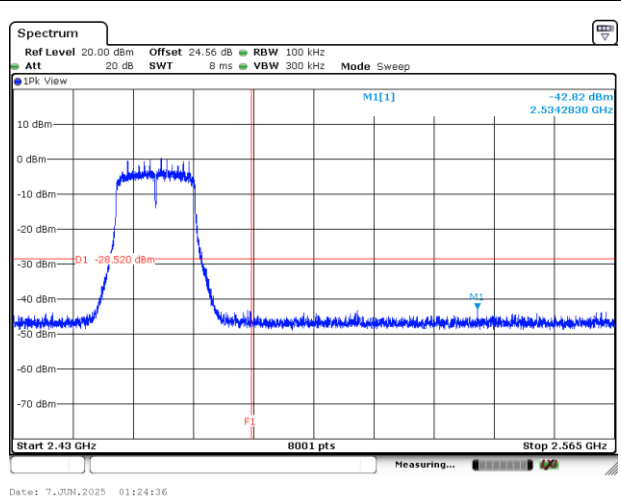
Test Mode : 802.11gN20

Test Channel : 11

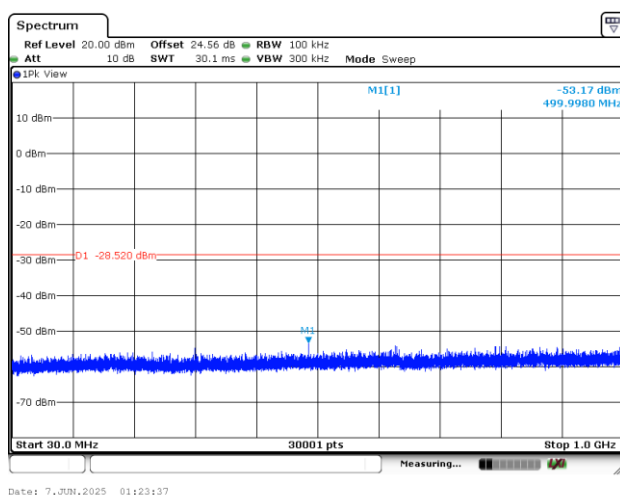
## 100kHz PSD reference Level



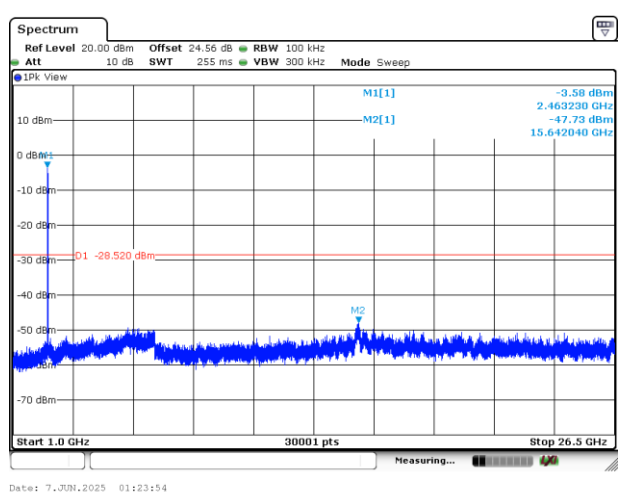
## Channel 11 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

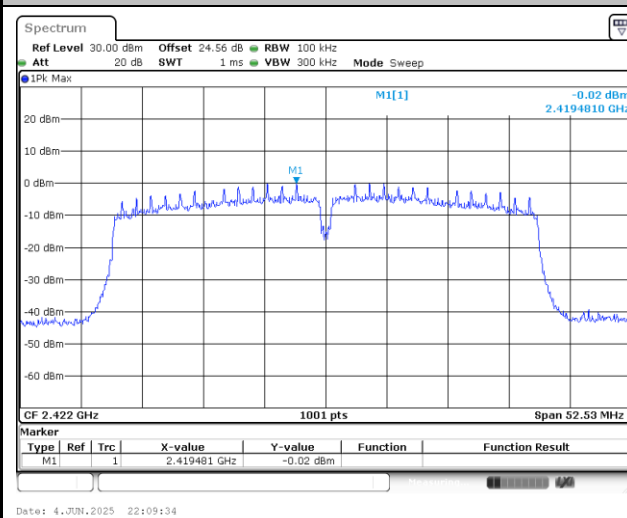




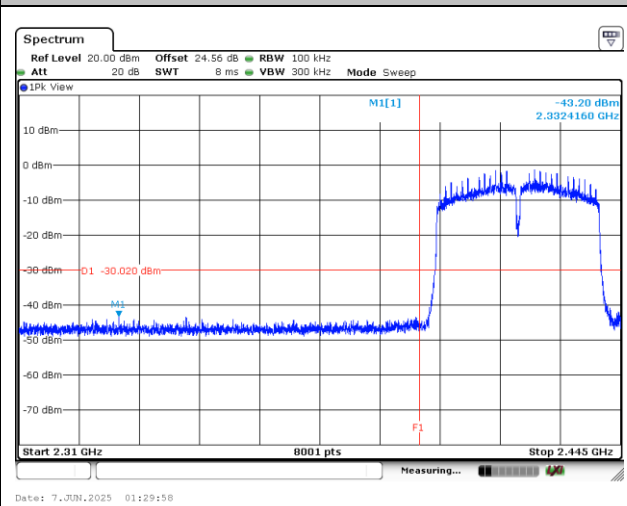
Test Mode : 802.11gN40

Test Channel : 03

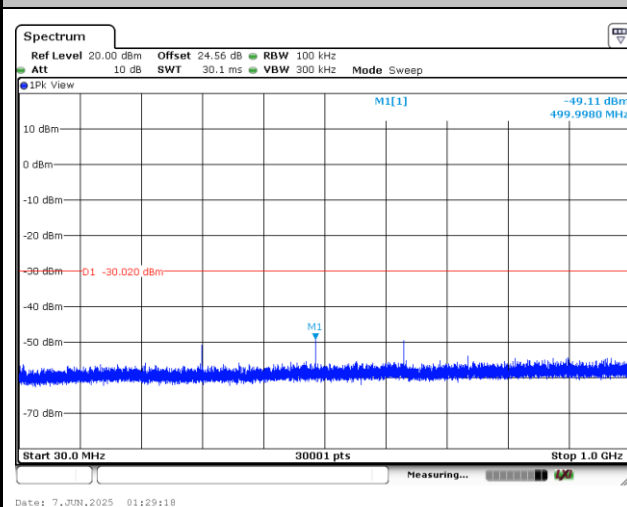
100kHz PSD reference Level



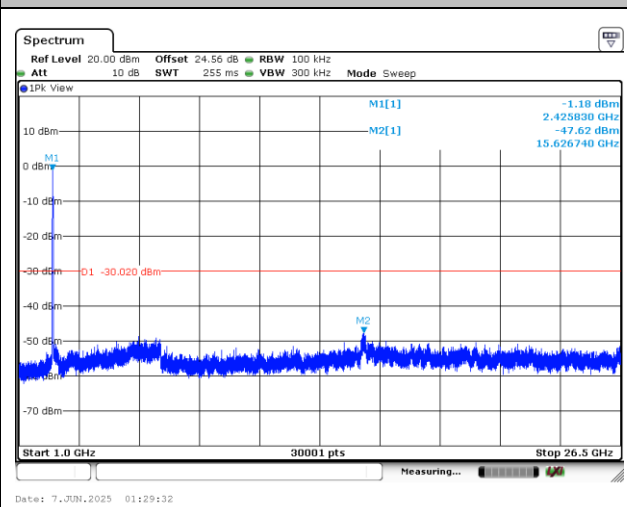
Channel 03 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

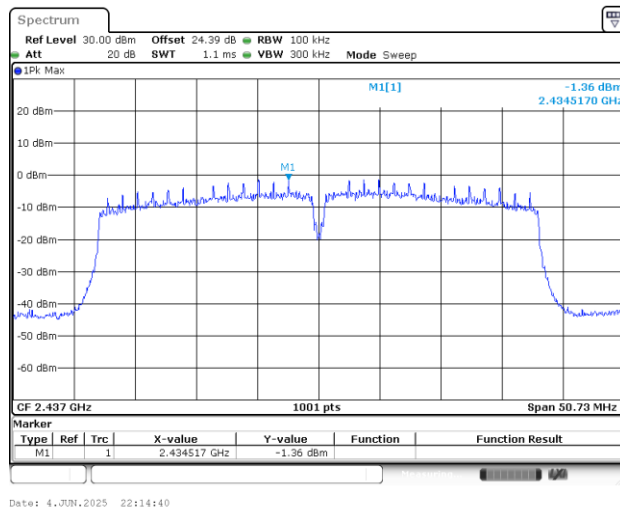




Test Mode : 802.11gN40

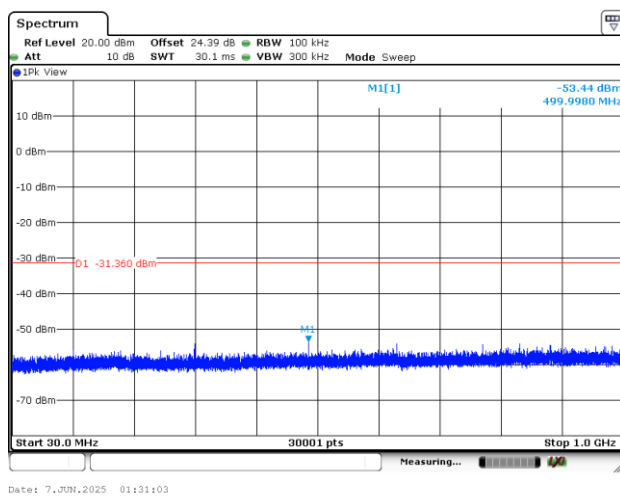
Test Channel : 06

## 100kHz PSD reference Level

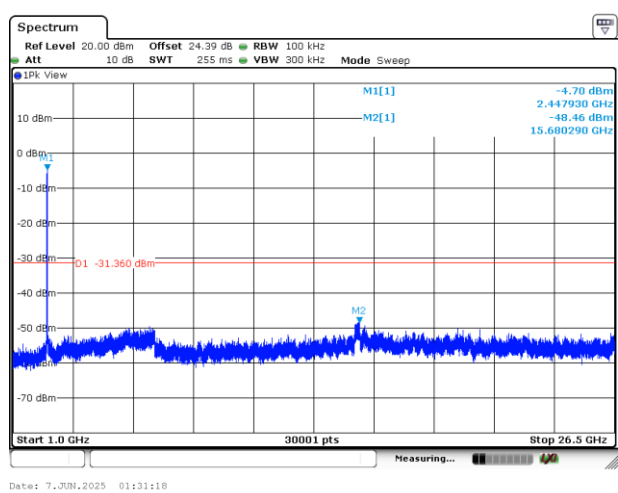


## Channel 06 Plot

## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

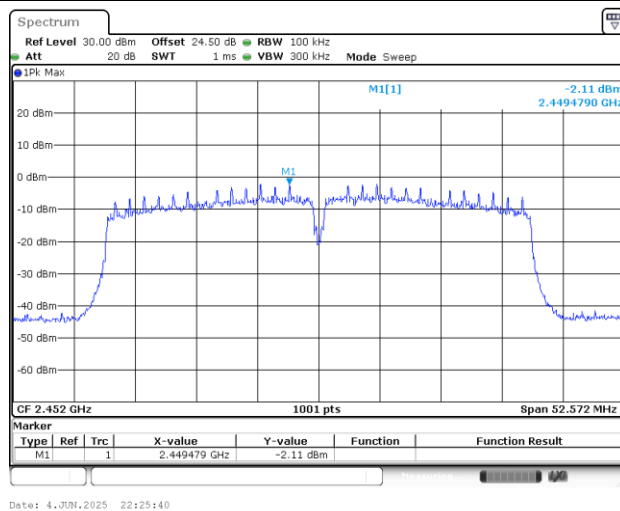




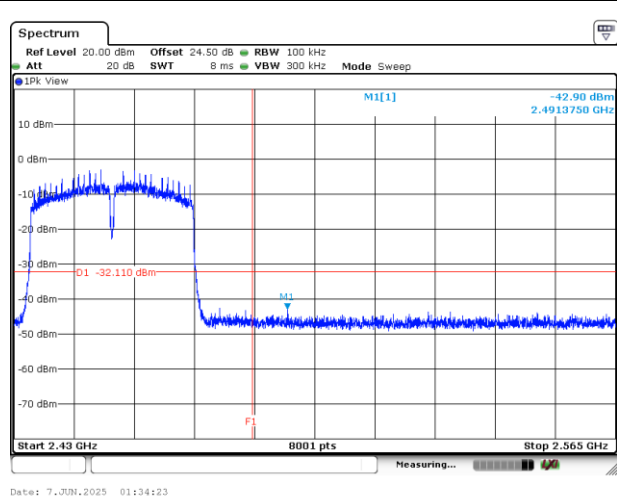
Test Mode : 802.11gN40

Test Channel : 09

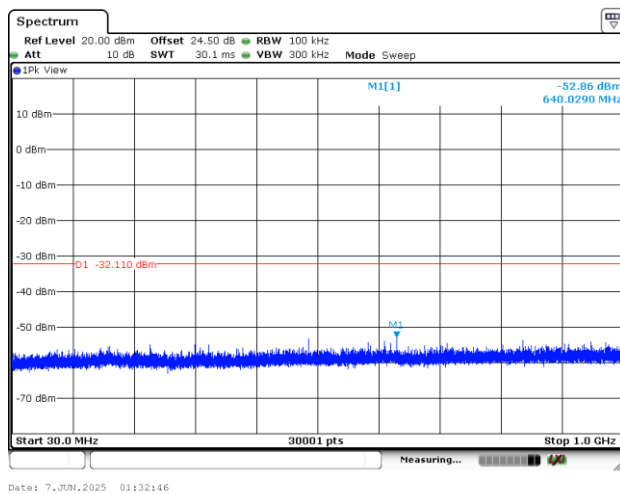
## 100kHz PSD reference Level



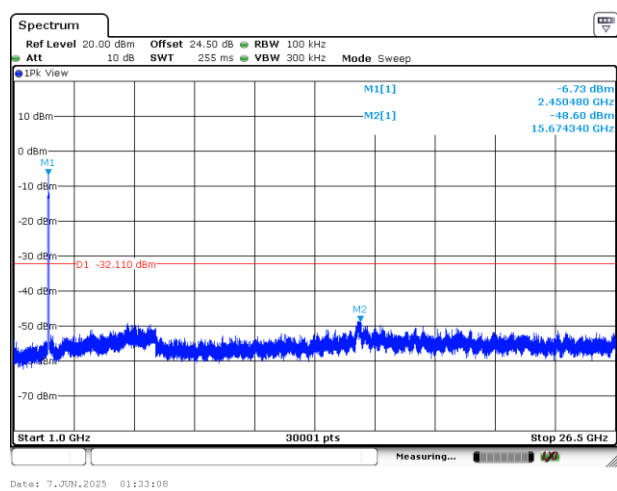
## Channel 09 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz



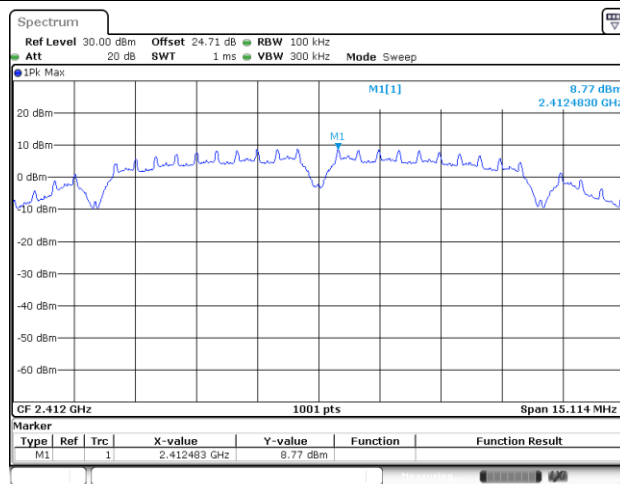


Number of TX = 2, Ant. 2 (Measured)

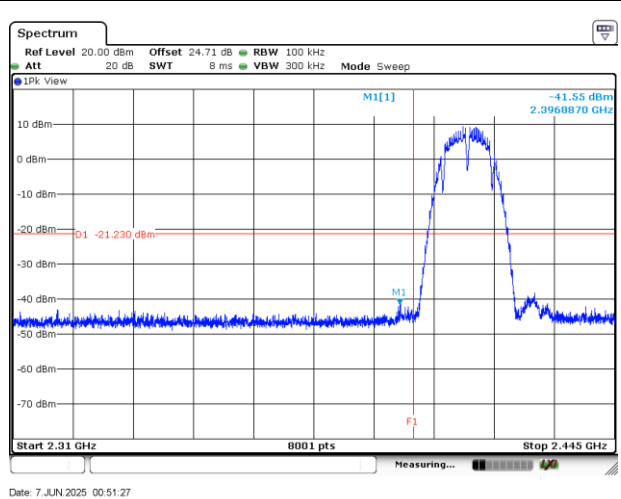
Test Mode : 802.11b

Test Channel : 01

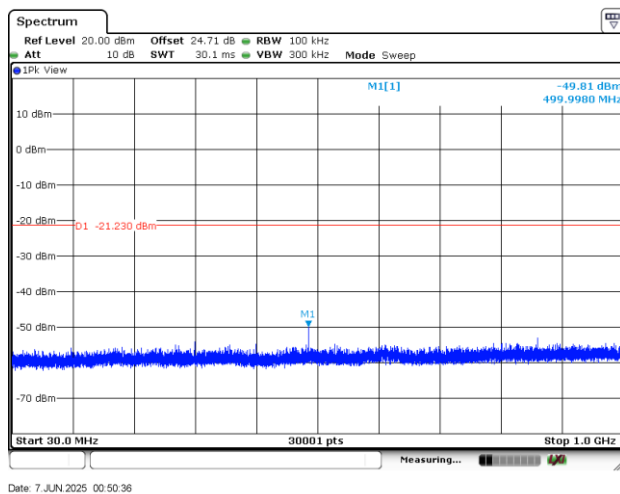
## 100kHz PSD reference Level



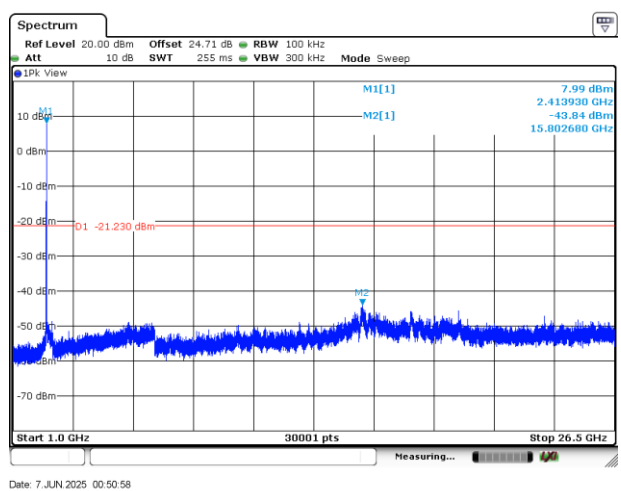
## Channel 01 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

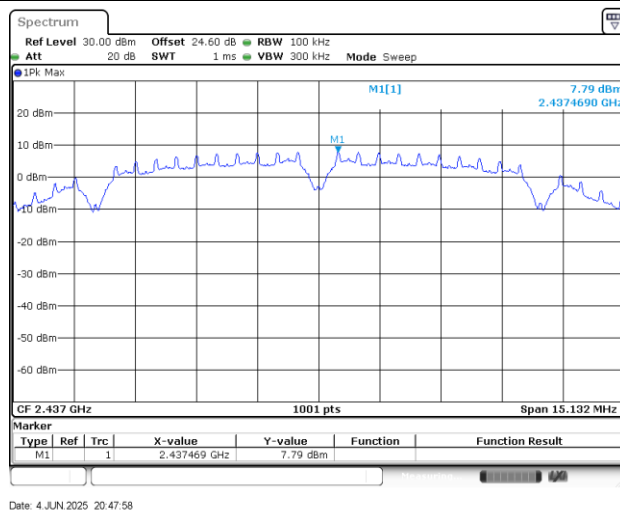




Test Mode : 802.11b

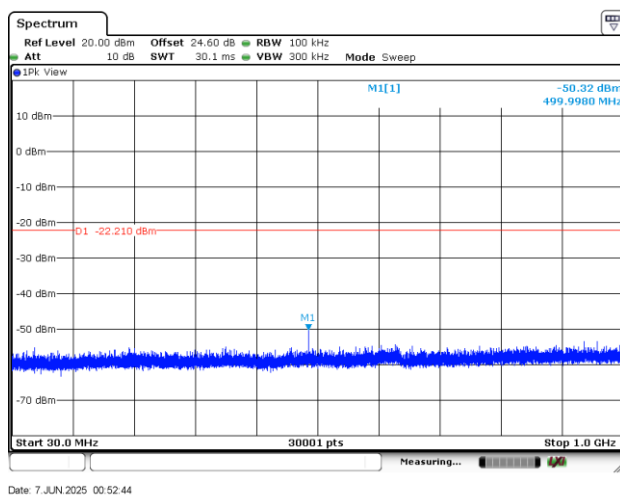
Test Channel : 06

## 100kHz PSD reference Level

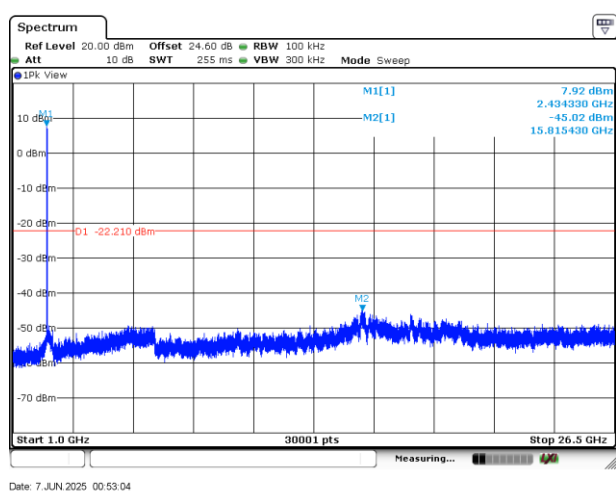


## Channel 06 Plot

## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

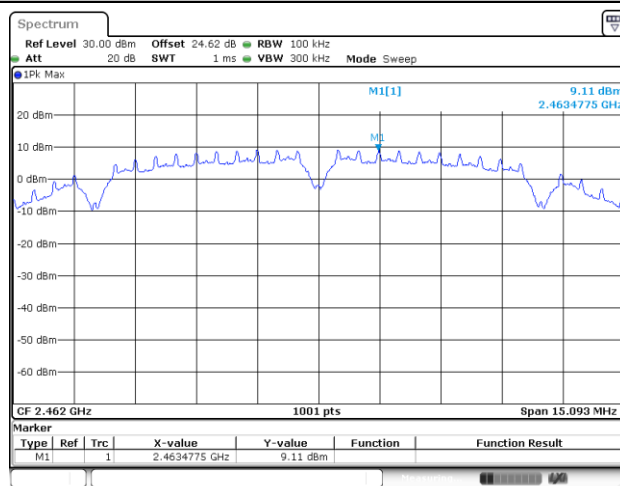




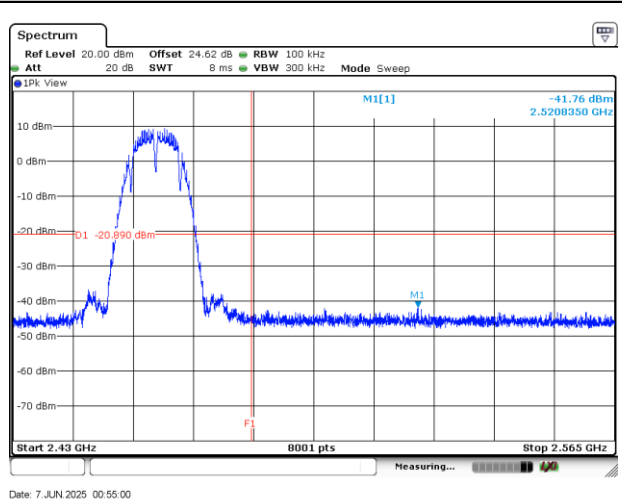
Test Mode : 802.11b

Test Channel : 11

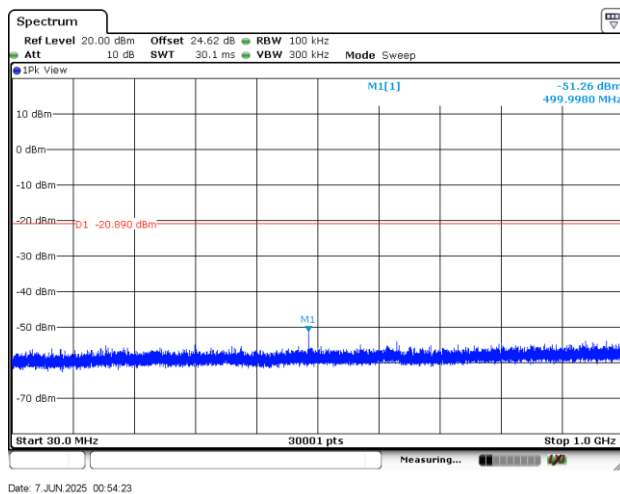
## 100kHz PSD reference Level



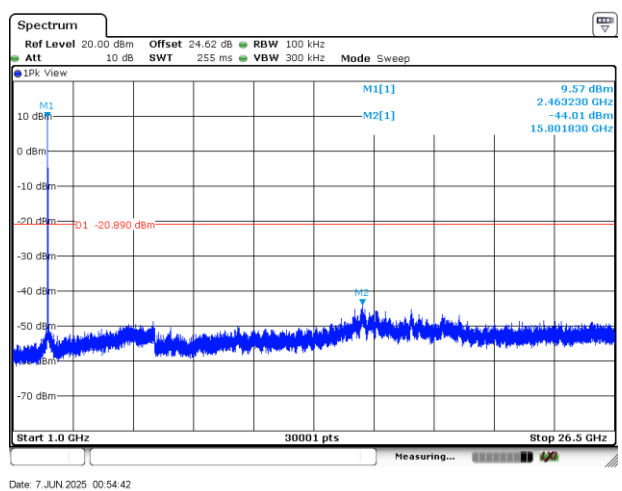
## Channel 11 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

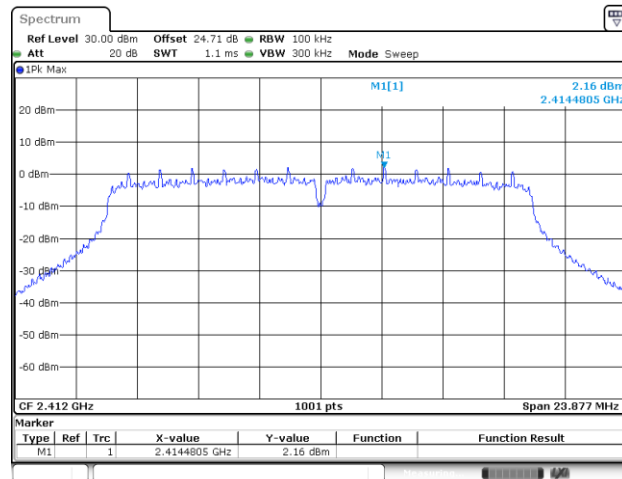




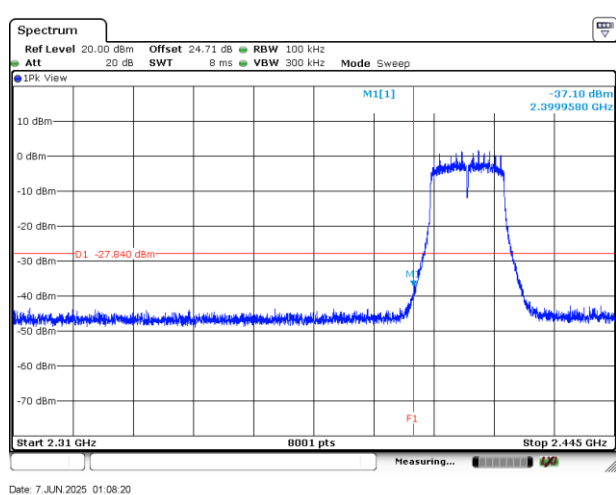
Test Mode : 802.11g

Test Channel : 01

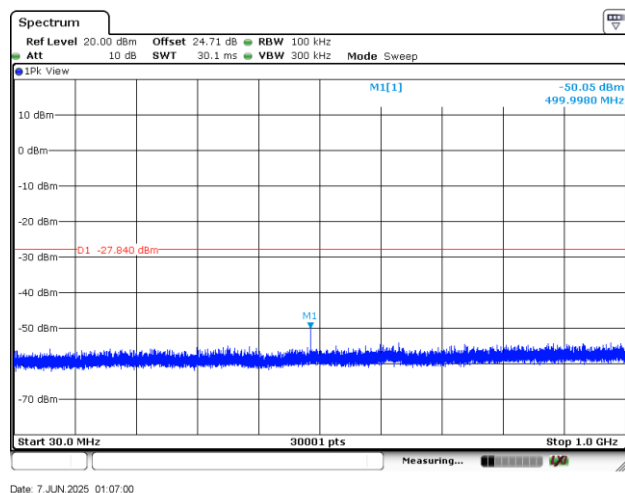
100kHz PSD reference Level



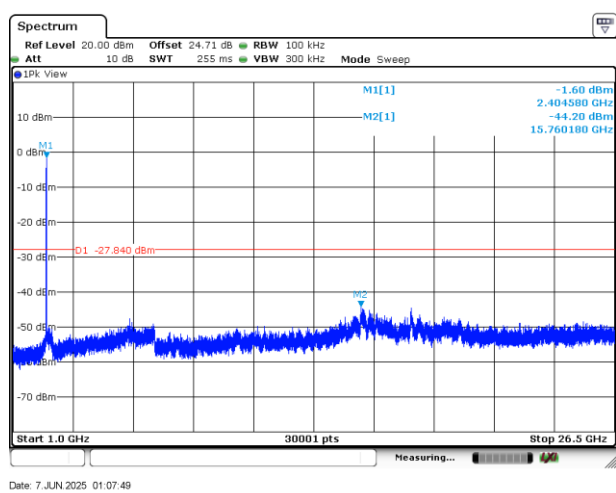
Channel 01 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz



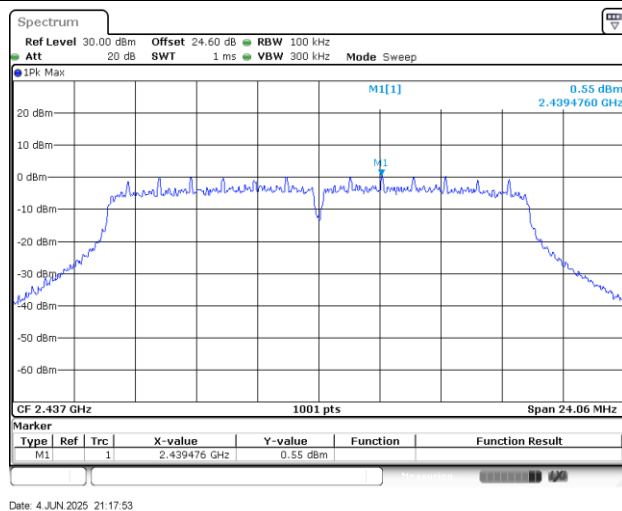




Test Mode : 802.11g

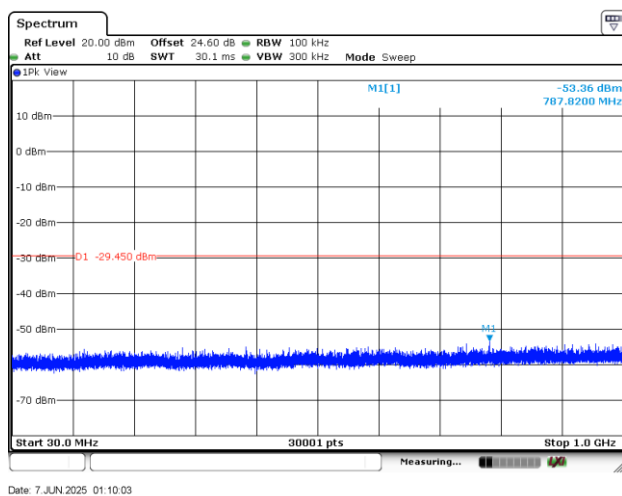
Test Channel : 06

## 100kHz PSD reference Level

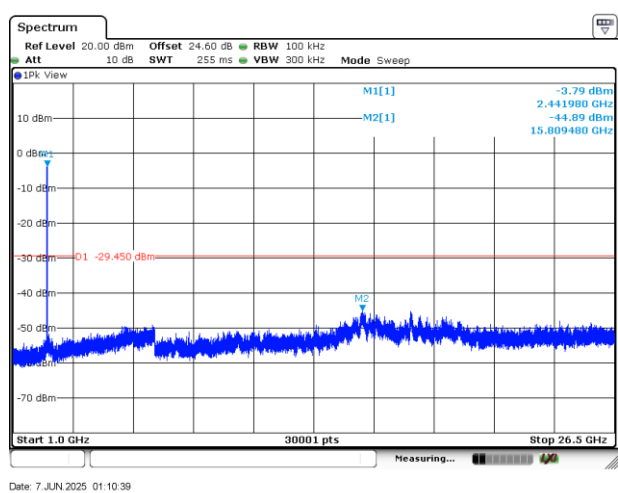


## Channel 06 Plot

## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

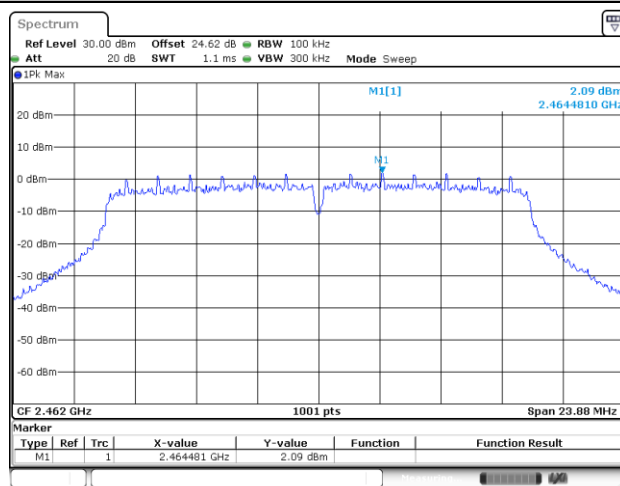




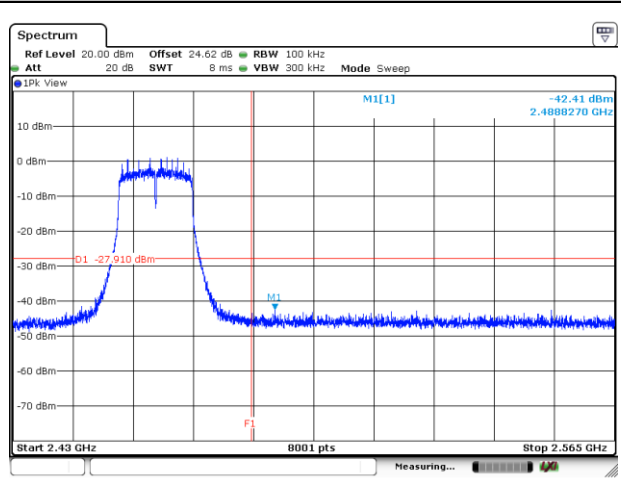
Test Mode : 802.11g

Test Channel : 11

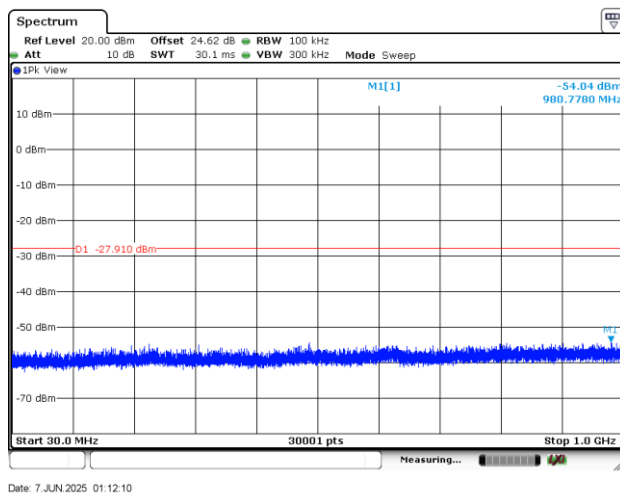
## 100kHz PSD reference Level



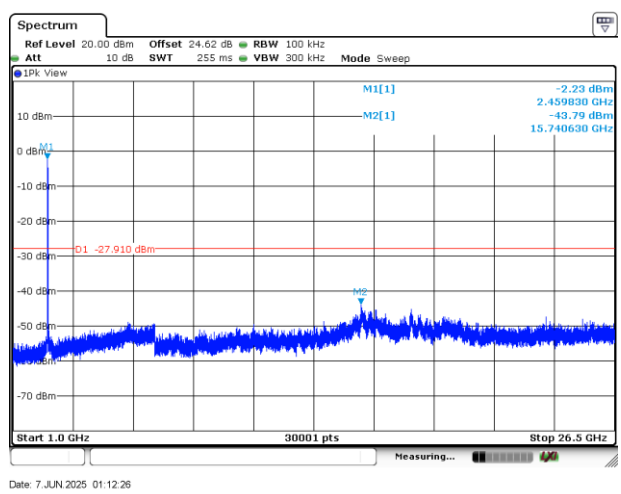
## Channel 11 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

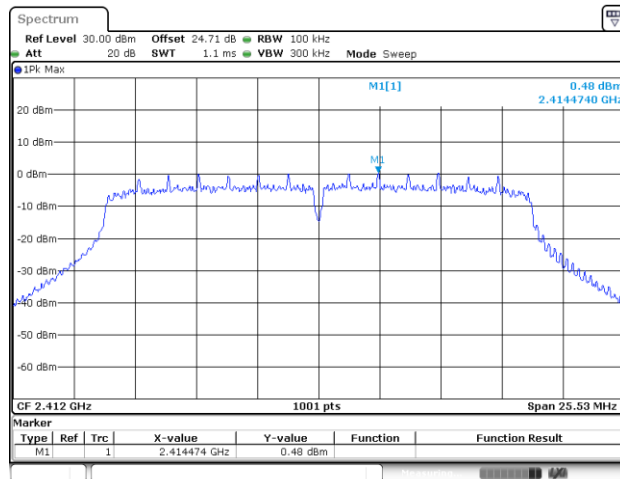




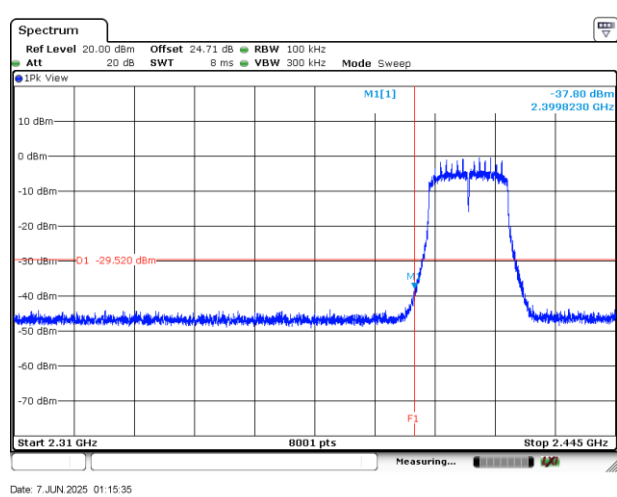
Test Mode : 802.11gN20

Test Channel : 01

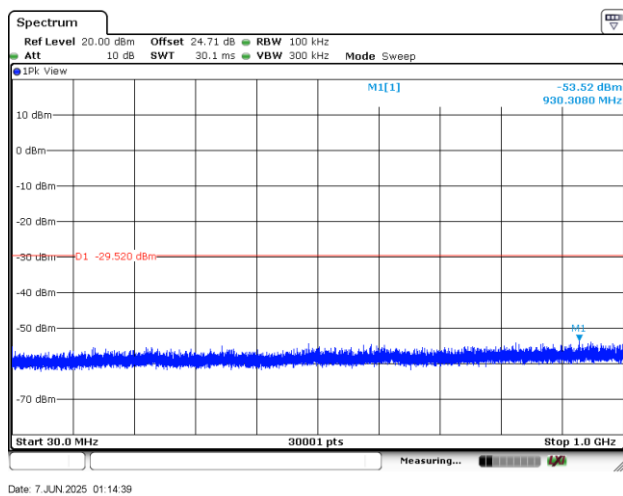
## 100kHz PSD reference Level



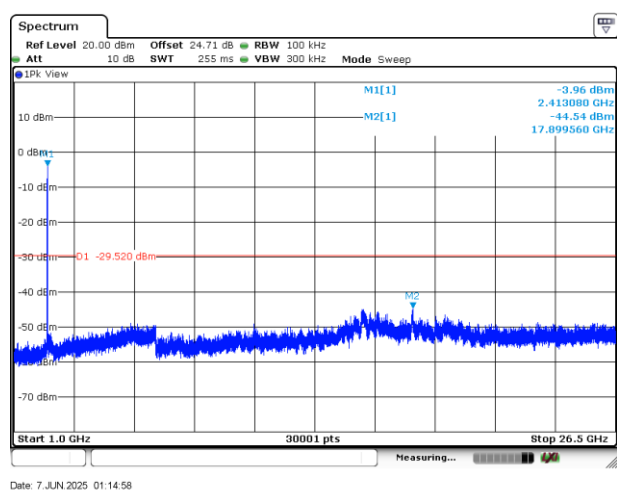
## Channel 01 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

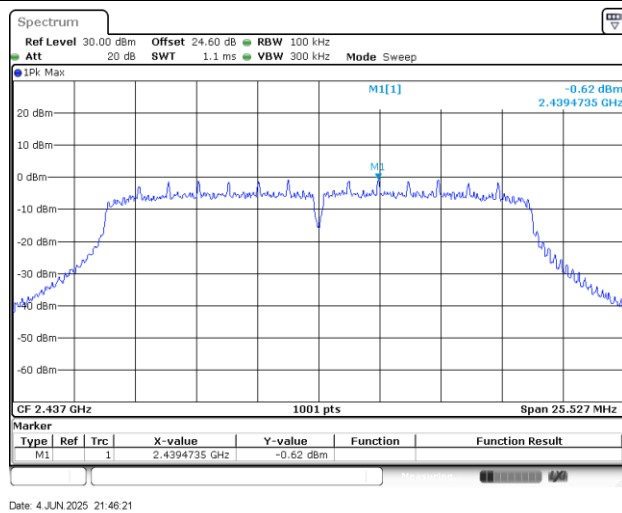




Test Mode : 802.11gN20

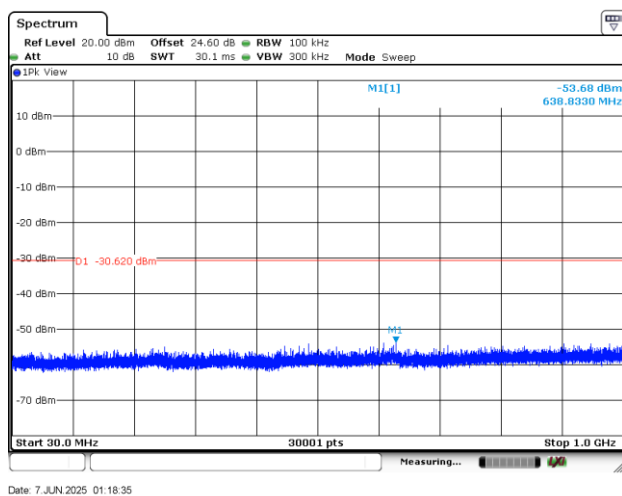
Test Channel : 06

## 100kHz PSD reference Level

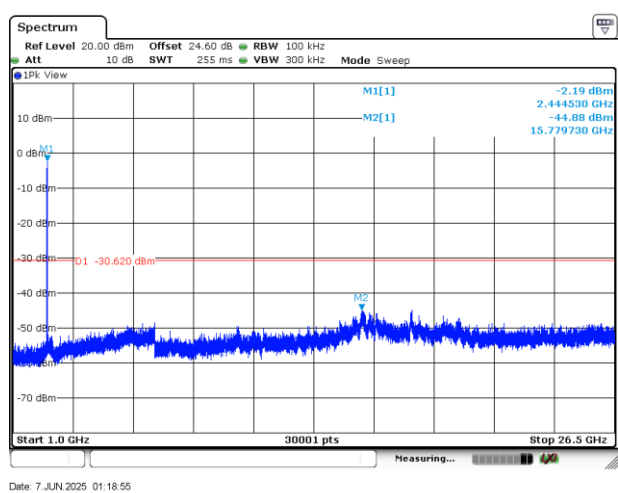


## Channel 06 Plot

## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

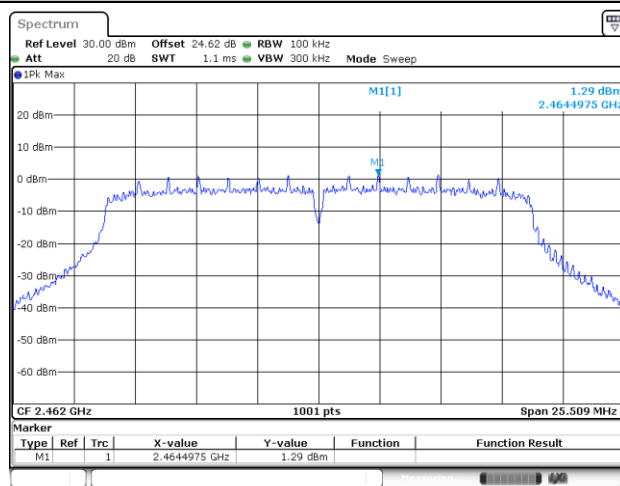




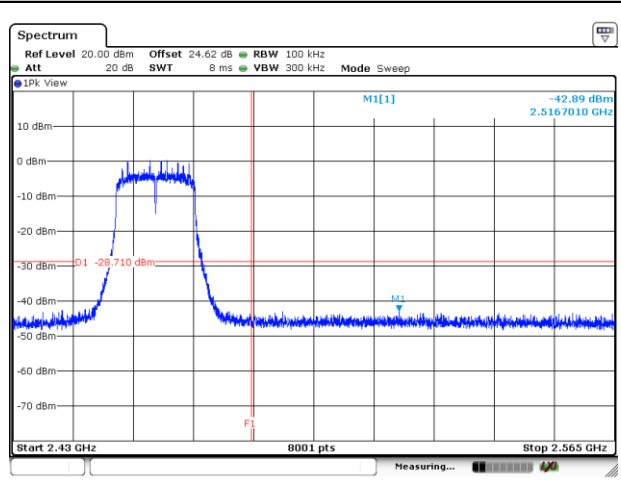
Test Mode : 802.11gN20

Test Channel : 11

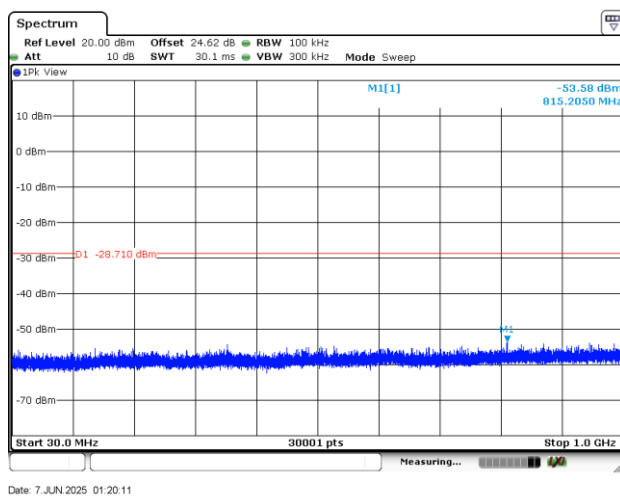
## 100kHz PSD reference Level



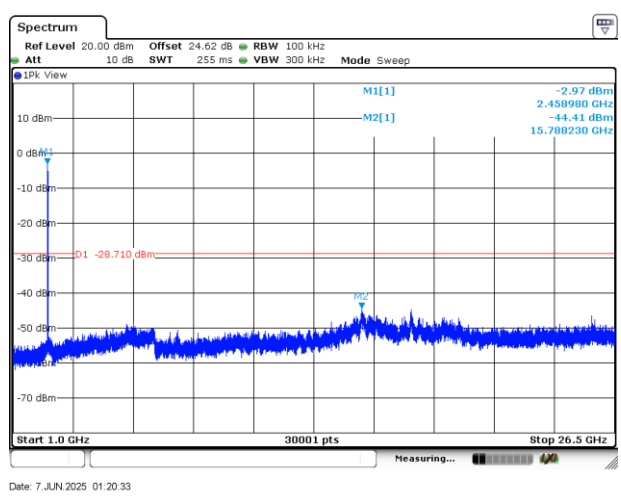
## Channel 11 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

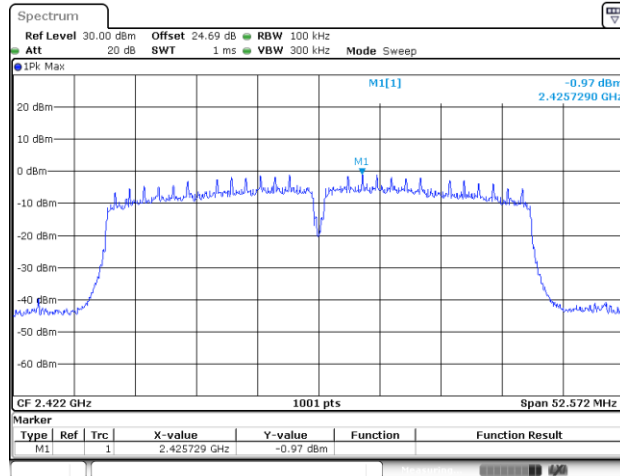




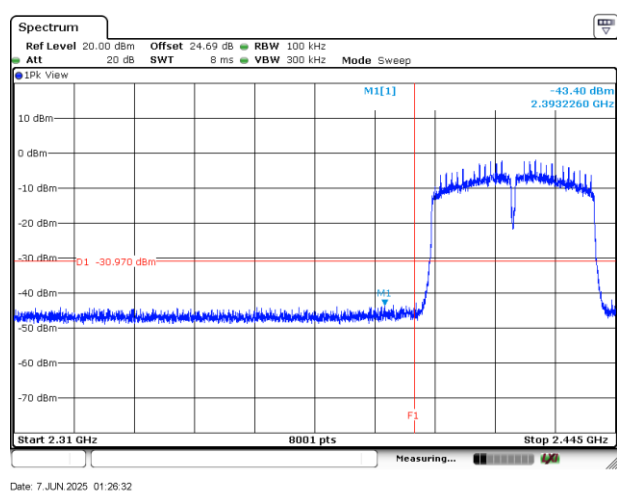
Test Mode : 802.11gN40

Test Channel : 03

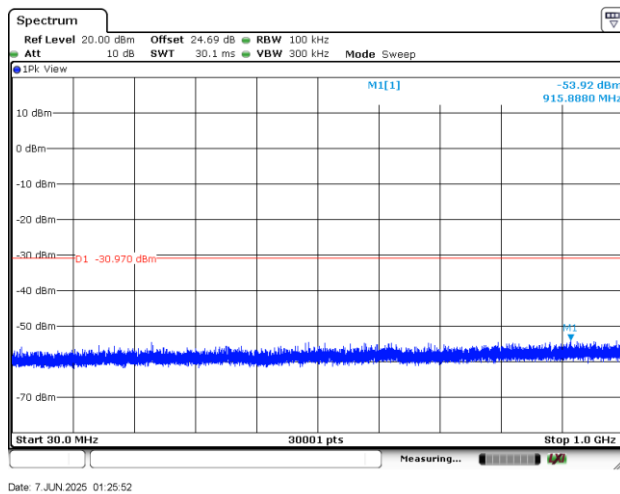
## 100kHz PSD reference Level



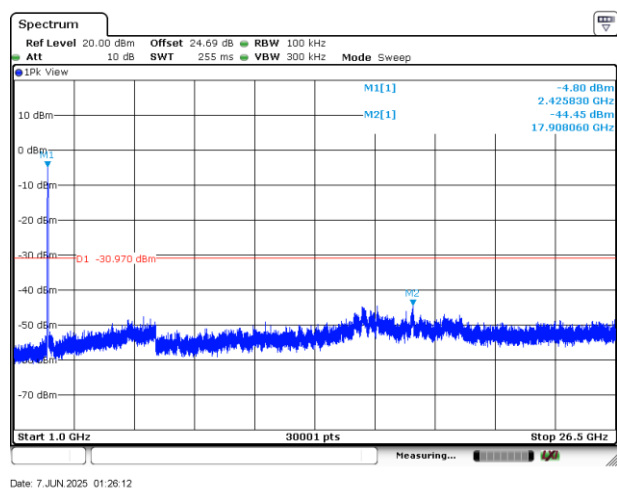
## Channel 03 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

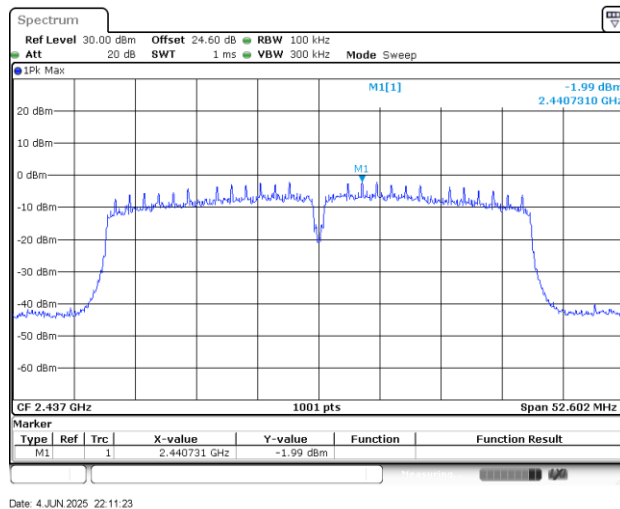




Test Mode : 802.11gN40

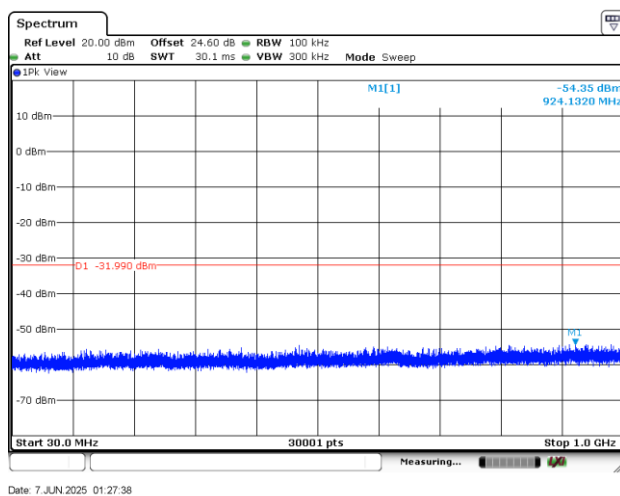
Test Channel : 06

## 100kHz PSD reference Level

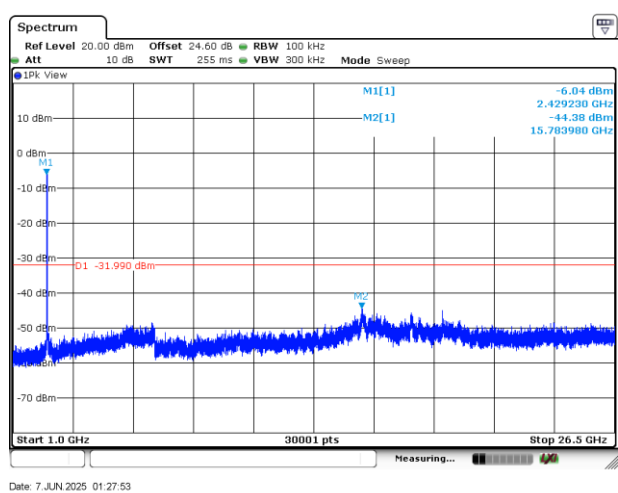


## Channel 06 Plot

## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

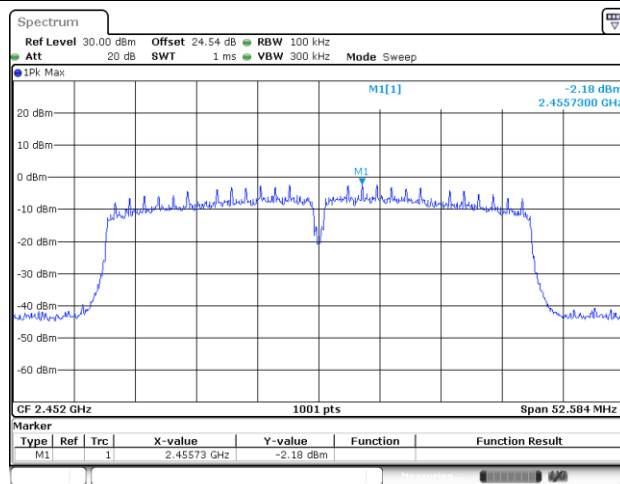




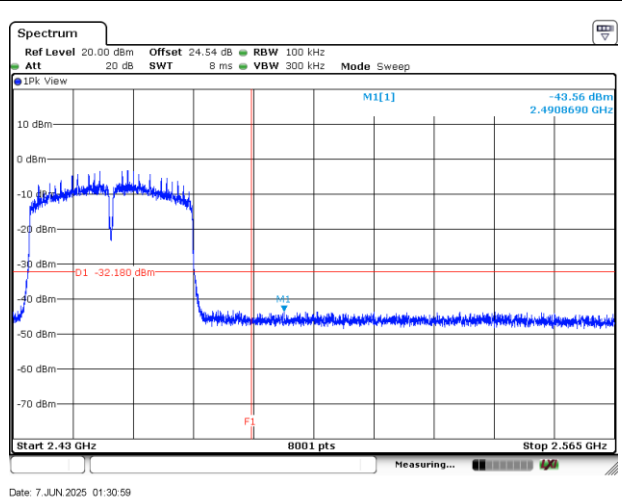
Test Mode : 802.11gN40

Test Channel : 09

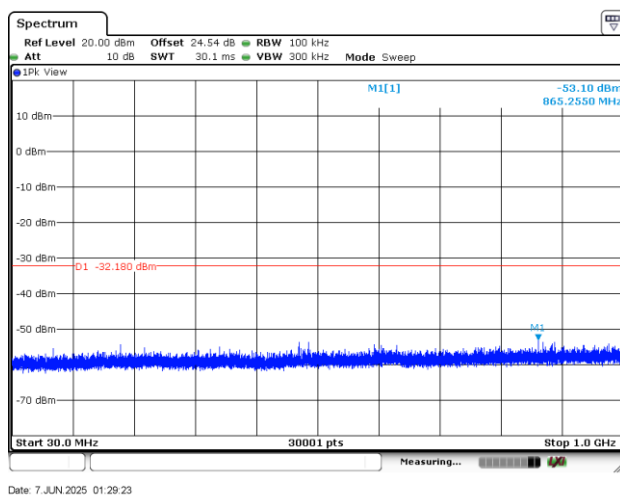
## 100kHz PSD reference Level



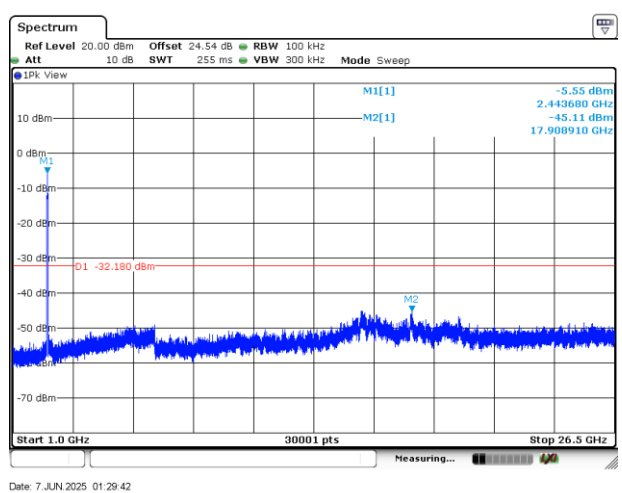
## Channel 09 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz







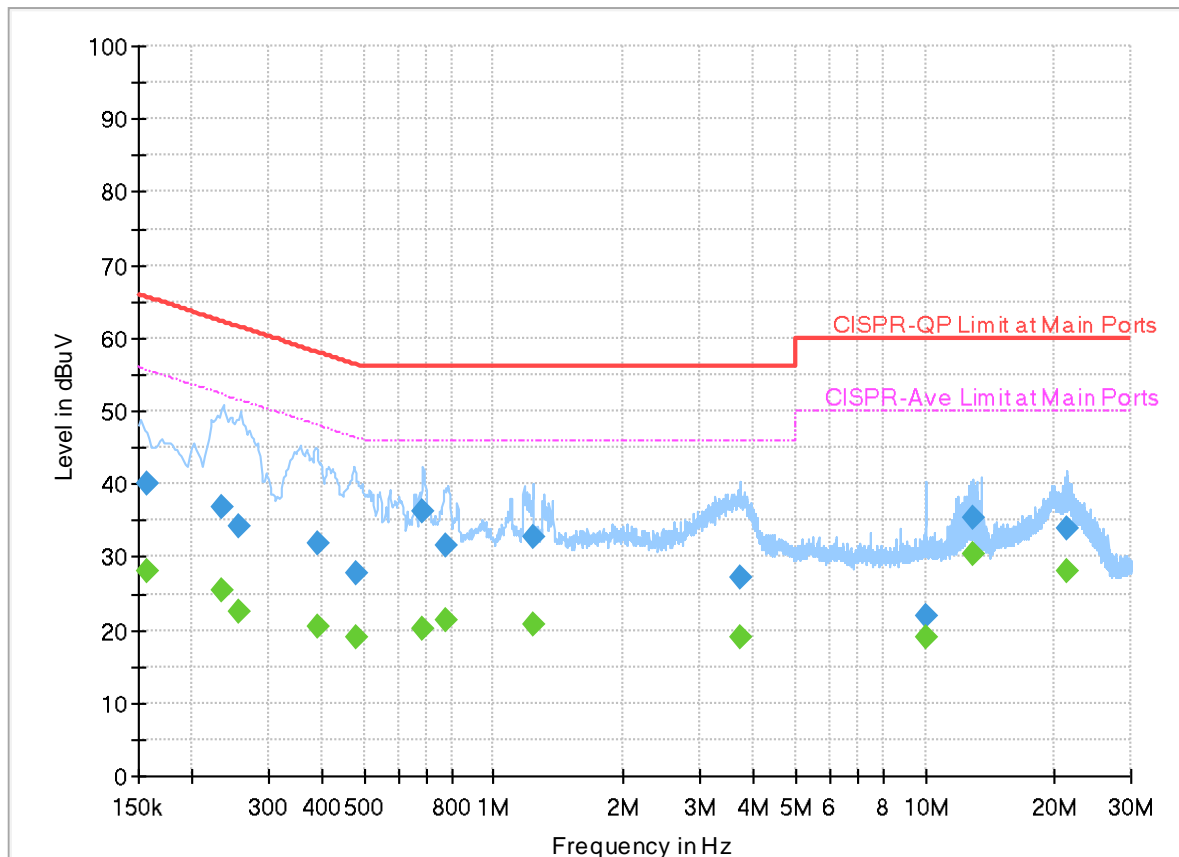
## **Appendix B. AC Conducted Emission Test Results**

<b>Test Engineer :</b>	Louis Chung	<b>Temperature :</b>	23 ~ 24.6°C
		<b>Relative Humidity :</b>	45.1 ~ 54.2%

## EUT Information

Report NO : 530461  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Line

Full Spectrum



## Final\_Result

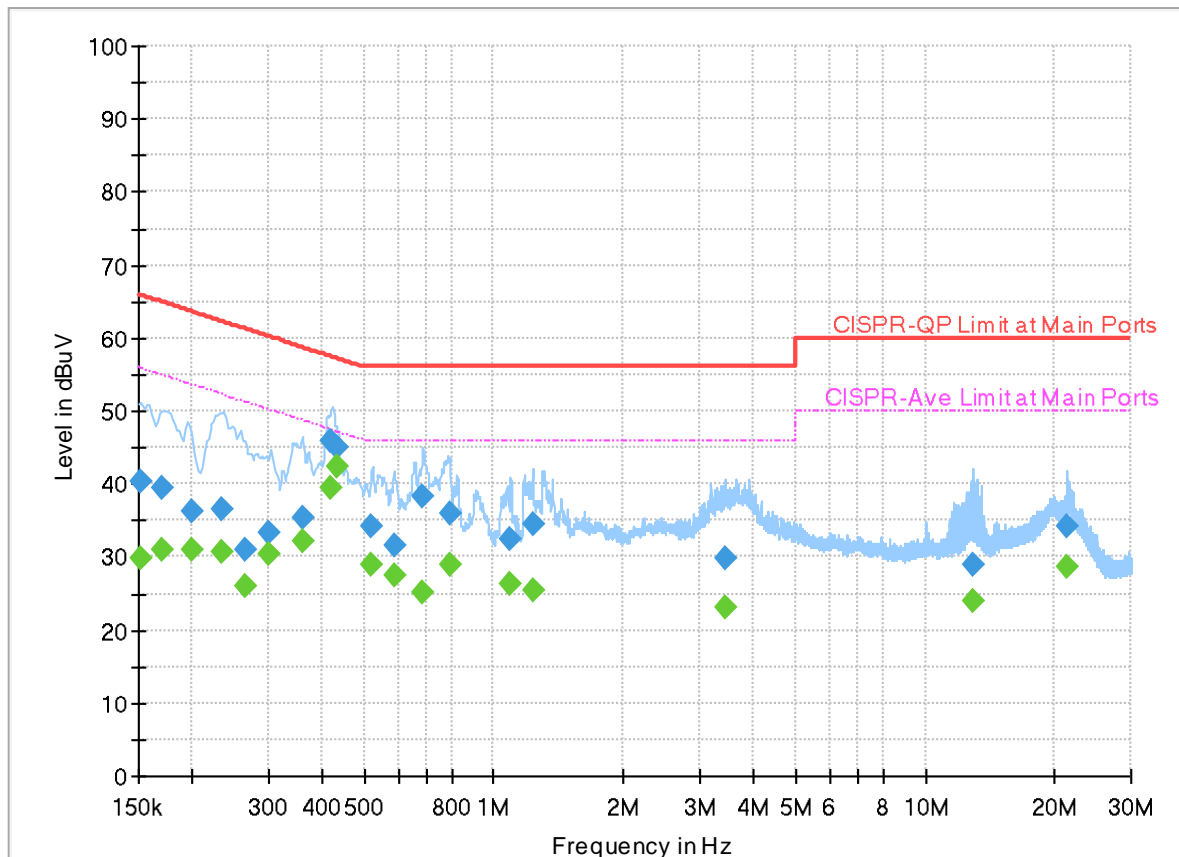
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.156750	---	28.13	55.63	27.50	L1	FLO	20.0
0.156750	39.95	---	65.63	25.68	L1	FLO	20.0
0.232890	---	25.36	52.35	26.99	L1	FLO	20.0
0.232890	36.77	---	62.35	25.58	L1	FLO	20.0
0.256920	---	22.40	51.53	29.13	L1	FLO	20.0
0.256920	34.18	---	61.53	27.35	L1	FLO	20.0
0.390570	---	20.36	48.05	27.69	L1	FLO	20.0
0.390570	31.91	---	58.05	26.14	L1	FLO	20.0
0.478500	---	18.86	46.37	27.51	L1	FLO	20.0
0.478500	27.90	---	56.37	28.47	L1	FLO	20.0
0.681990	---	20.27	46.00	25.73	L1	FLO	20.0
0.681990	36.40	---	56.00	19.60	L1	FLO	20.0
0.775950	---	21.41	46.00	24.59	L1	FLO	20.0
0.775950	31.57	---	56.00	24.43	L1	FLO	20.0
1.229550	---	20.66	46.00	25.34	L1	FLO	20.0
1.229550	32.85	---	56.00	23.15	L1	FLO	20.0
3.727500	---	19.02	46.00	26.98	L1	FLO	20.1
3.727500	27.16	---	56.00	28.84	L1	FLO	20.1
9.998970	---	19.03	50.00	30.97	L1	FLO	20.4

9.998970	21.99	---	60.00	38.01	L1	FLO	20.4
12.935400	---	30.35	50.00	19.65	L1	FLO	20.5
12.935400	35.42	---	60.00	24.58	L1	FLO	20.5
21.390180	---	28.06	50.00	21.94	L1	FLO	20.9
21.390180	33.83	---	60.00	26.17	L1	FLO	20.9

## EUT Information

Report NO : 530461  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Neutral

Full Spectrum



## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.152295	---	29.96	55.87	25.91	N	FLO	20.0
0.152295	40.42	---	65.87	25.45	N	FLO	20.0
0.170250	---	30.94	54.95	24.01	N	FLO	20.0
0.170250	39.51	---	64.95	25.44	N	FLO	20.0
0.198510	---	31.07	53.67	22.60	N	FLO	20.0
0.198510	36.32	---	63.67	27.35	N	FLO	20.0
0.234600	---	30.68	52.29	21.61	N	FLO	20.0
0.234600	36.69	---	62.29	25.60	N	FLO	20.0
0.264210	---	26.10	51.30	25.20	N	FLO	20.0
0.264210	30.99	---	61.30	30.31	N	FLO	20.0
0.299760	---	30.32	50.25	19.93	N	FLO	20.0
0.299760	33.36	---	60.25	26.89	N	FLO	20.0
0.358800	---	32.29	48.76	16.47	N	FLO	20.0
0.358800	35.42	---	58.76	23.34	N	FLO	20.0
0.420000	---	39.46	47.45	7.99	N	FLO	20.0
0.420000	46.02	---	57.45	11.43	N	FLO	20.0
0.431520	---	42.38	47.22	4.84	N	FLO	20.0
0.431520	45.15	---	57.22	12.07	N	FLO	20.0
0.520530	---	28.82	46.00	17.18	N	FLO	20.0

0.520530	34.22	---	56.00	21.78	N	FLO	20.0
0.591000	---	27.44	46.00	18.56	N	FLO	20.0
0.591000	31.61	---	56.00	24.39	N	FLO	20.0
0.686310	---	25.18	46.00	20.82	N	FLO	20.0
0.686310	38.34	---	56.00	17.66	N	FLO	20.0
0.789000	---	29.00	46.00	17.00	N	FLO	20.0
0.789000	35.93	---	56.00	20.07	N	FLO	20.0
1.092660	---	26.32	46.00	19.68	N	FLO	20.0
1.092660	32.55	---	56.00	23.45	N	FLO	20.0
1.234680	---	25.32	46.00	20.68	N	FLO	20.0
1.234680	34.57	---	56.00	21.43	N	FLO	20.0
3.459750	---	23.21	46.00	22.79	N	FLO	20.1
3.459750	29.72	---	56.00	26.28	N	FLO	20.1
12.860250	---	23.90	50.00	26.10	N	FLO	20.5
12.860250	28.89	---	60.00	31.11	N	FLO	20.5
21.393060	---	28.73	50.00	21.27	N	FLO	20.9
21.393060	34.14	---	60.00	25.86	N	FLO	20.9



## Appendix C Radiated Spurious Emission Test Data

<b>Test Engineer :</b>	Fred Tseng, Ray Lung and Sky Chang	<b>Relative Humidity :</b>	50 ~ 65%
		<b>Temperature :</b>	18 ~ 23°C

### Note symbol

-L	Low channel location
-R	High channel location

## C1. Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1+2	802.11b	01	2412	1Mbps	-	-
Mode 2	2400-2483.5	1+2	802.11b	06	2437	1Mbps	-	-
Mode 3	2400-2483.5	1+2	802.11b	11	2462	1Mbps	-	-
Mode 4	2400-2483.5	1+2	802.11g	01	2412	6Mbps	-	-
Mode 5	2400-2483.5	1+2	802.11g	06	2437	6Mbps	-	-
Mode 6	2400-2483.5	1+2	802.11g	11	2462	6Mbps	-	-
Mode 7	2400-2483.5	1+2	802.11n HT20	01	2412	MCS0	-	-
Mode 8	2400-2483.5	1+2	802.11n HT20	06	2437	MCS0	-	-
Mode 9	2400-2483.5	1+2	802.11n HT20	11	2462	MCS0	-	-
Mode 10	2400-2483.5	1+2	802.11n HT40	03	2422	MCS0	-	-
Mode 11	2400-2483.5	1+2	802.11n HT40	06	2437	MCS0	-	-
Mode 12	2400-2483.5	1+2	802.11n HT40	09	2452	MCS0	-	-
Mode 13	2400-2483.5	1+2	802.11b	11	2462	1Mbps	-	LF
Mode 14	2400-2483.5	1+2	802.11b	11	2462	1Mbps	-	SHF



## C2. Summary of each worse mode

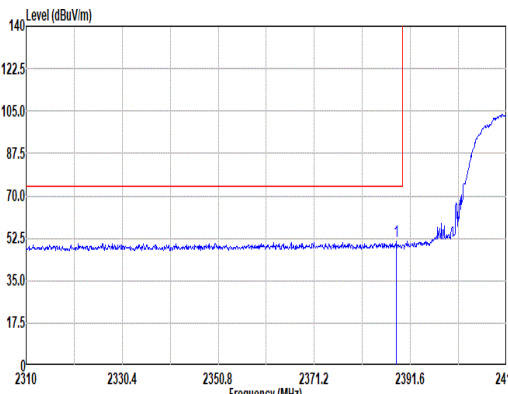
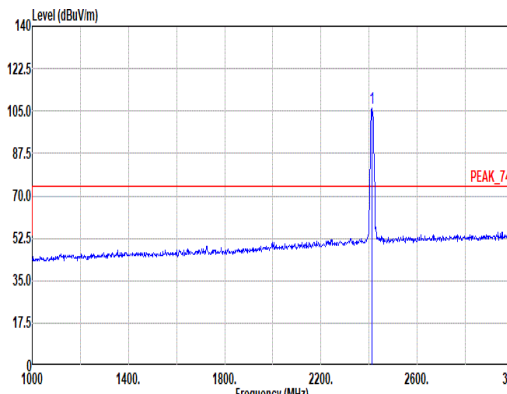
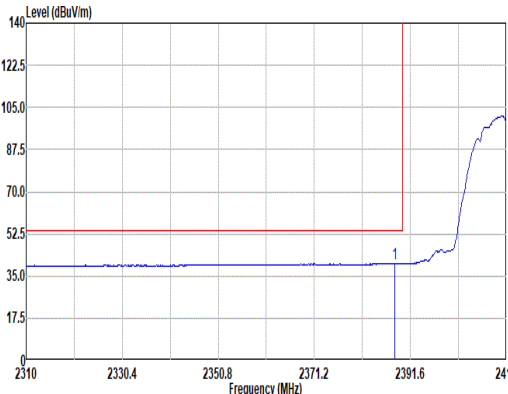
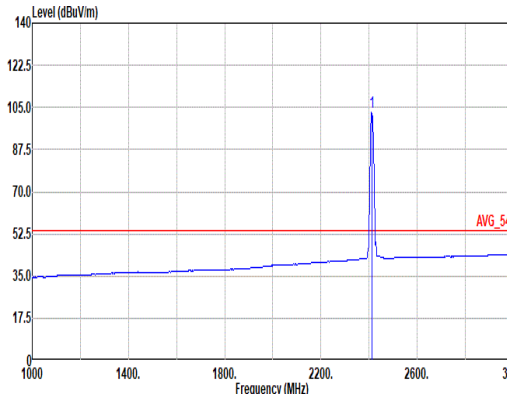
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	802.11b	01	2354.98	48.85	54.00	-5.15	V	Avg.	Pass	-	Band Edge
	802.11b	01	4824.00	50.39	54.00	-3.61	V	Avg.	Pass	-	Harmonic
2	802.11b	06	2484.31	48.06	54.00	-5.94	V	Avg.	Pass	-	Band Edge
	802.11b	06	4874.00	48.12	54.00	-5.88	V	Avg.	Pass	-	Harmonic
3	802.11b	11	2487.76	51.41	54.00	-2.59	V	Avg.	Pass	-	Band Edge
	802.11b	11	4924.00	46.82	54.00	-7.18	V	Avg.	Pass	-	Harmonic
4	802.11g	01	2389.97	48.07	54.00	-5.93	V	Avg.	Pass	-	Band Edge
	802.11g	01	4824.00	44.61	74.00	-29.39	H	Peak	Pass	-	Harmonic
5	802.11g	06	2484.38	44.43	54.00	-9.57	V	Avg.	Pass	-	Band Edge
	802.11g	06	7311.00	38.85	54.00	-15.15	H	Avg.	Pass	-	Harmonic
6	802.11g	11	2499.92	49.15	54.00	-4.85	V	Avg.	Pass	-	Band Edge
	802.11g	11	7386.00	38.95	54.00	-15.05	V	Avg.	Pass	-	Harmonic
7	802.11n HT20	01	2389.97	45.97	54.00	-8.03	V	Avg.	Pass	-	Band Edge
	802.11n HT20	01	4824.00	44.77	74.00	-29.23	V	Peak	Pass	-	Harmonic
8	802.11n HT20	06	2483.56	44.97	54.00	-9.03	V	Avg.	Pass	-	Band Edge
	802.11n HT20	06	7311.00	38.97	54.00	-15.03	V	Avg.	Pass	-	Harmonic
9	802.11n HT20	11	2483.51	45.57	54.00	-8.43	V	Avg.	Pass	-	Band Edge
	802.11n HT20	11	7386.00	39.14	54.00	-14.86	H	Avg.	Pass	-	Harmonic
10	802.11n HT40	03	2484.40	48.29	54.00	-5.71	V	Avg.	Pass	-	Band Edge
	802.11n HT40	03	7266.00	39.44	54.00	-14.56	H	Avg.	Pass	-	Harmonic
11	802.11n HT40	06	2484.75	46.53	54.00	-7.47	V	Avg.	Pass	-	Band Edge
	802.11n HT40	06	7311.00	39.25	54.00	-14.75	H	Avg.	Pass	-	Harmonic
12	802.11n HT40	09	2485.12	48.43	54.00	-5.57	V	Avg.	Pass	-	Band Edge
	802.11n HT40	09	7356.00	39.47	54.00	-14.53	V	Avg.	Pass	-	Harmonic



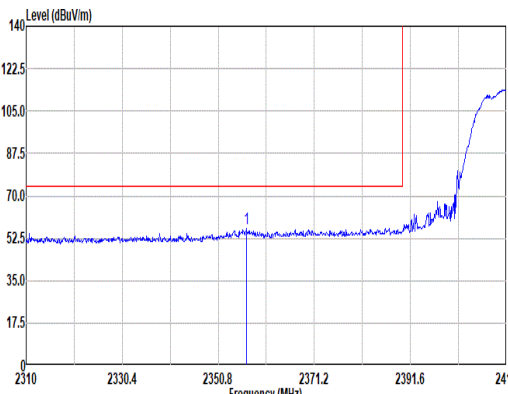
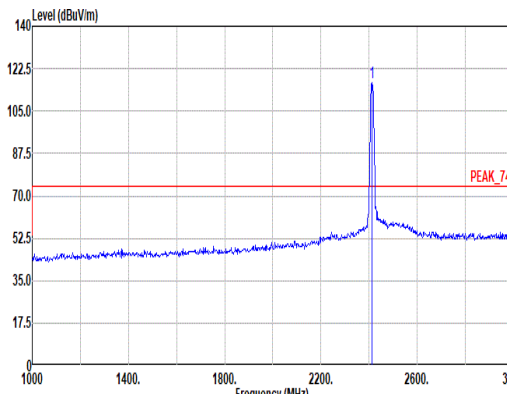
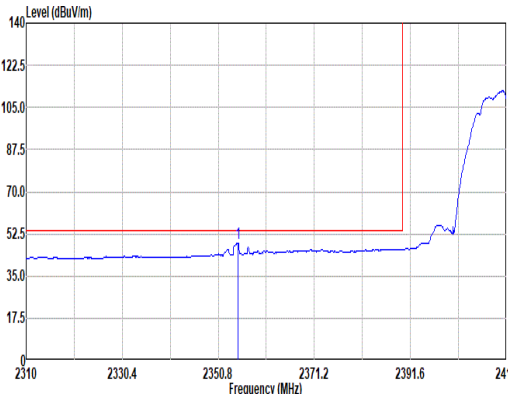
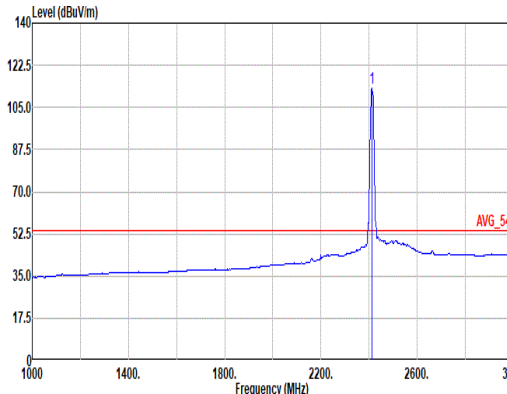
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
13	802.11b	11	709.97	27.59	46.00	-18.41	V	QP	Pass	-	LF
14	802.11b	11	19696.00	43.28	54.00	-10.72	H	Avg.	Pass	-	SHF



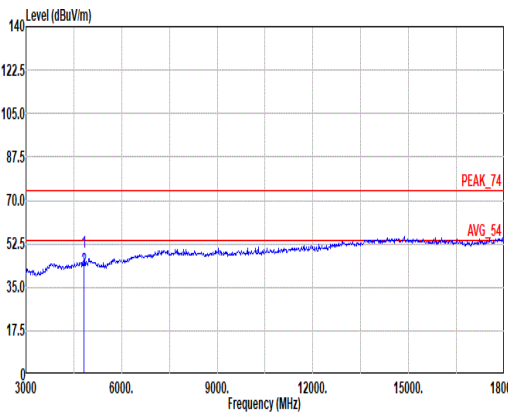
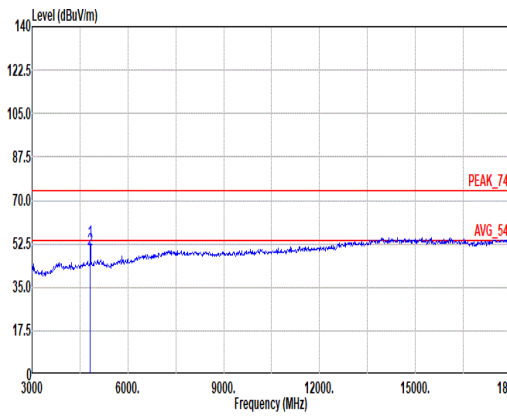


Mode	1																																																																																							
	Band Edge																																																																																							
	2400-2483.5_802.11b_CH01_2412MHz																																																																																							
ANT	1+2																																																																																							
Pol.	Horizontal						Fundamental																																																																																	
Peak																																																																																								
	Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto						Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto																																																																																	
	<table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line Margin</th><th>Read Level</th><th>Ant Factor</th><th>Cable Loss</th><th>Preamp Factor</th><th>Aux Factor</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2388.54</td><td>51.30</td><td>74.00</td><td>-22.70</td><td>38.75</td><td>26.70</td><td>8.75</td><td>32.93</td><td>10.03</td><td>227</td><td>67</td><td>Peak</td></tr></tbody></table>							Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	2388.54	51.30	74.00	-22.70	38.75	26.70	8.75	32.93	10.03	227	67	Peak	<table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line Margin</th><th>Read Level</th><th>Ant Factor</th><th>Cable Loss</th><th>Preamp Factor</th><th>Aux Factor</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2412.00</td><td>106.23</td><td>-----</td><td>-----</td><td>93.50</td><td>26.86</td><td>8.79</td><td>32.95</td><td>10.03</td><td>227</td><td>67</td><td>Peak</td></tr></tbody></table>						Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	2412.00	106.23	-----	-----	93.50	26.86	8.79	32.95	10.03	227	67
	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark																																																																												
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																													
1	2388.54	51.30	74.00	-22.70	38.75	26.70	8.75	32.93	10.03	227	67	Peak																																																																												
	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark																																																																												
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																													
1	2412.00	106.23	-----	-----	93.50	26.86	8.79	32.95	10.03	227	67	Peak																																																																												
Avg																																																																																								
	Site : 03CH21-HY Condition: AVG_BE_54 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:0.120kHz SMT:Auto						Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:0.120kHz SMT:Auto																																																																																	
	<table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line Margin</th><th>Read Level</th><th>Ant Factor</th><th>Cable Loss</th><th>Preamp Factor</th><th>Aux Factor</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2388.34</td><td>40.21</td><td>54.00</td><td>-13.79</td><td>27.66</td><td>26.70</td><td>8.75</td><td>32.93</td><td>10.03</td><td>227</td><td>67</td><td>Average</td></tr></tbody></table>							Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	2388.34	40.21	54.00	-13.79	27.66	26.70	8.75	32.93	10.03	227	67	Average	<table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line Margin</th><th>Read Level</th><th>Ant Factor</th><th>Cable Loss</th><th>Preamp Factor</th><th>Aux Factor</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2412.00</td><td>102.86</td><td>-----</td><td>-----</td><td>90.09</td><td>26.90</td><td>8.79</td><td>32.95</td><td>10.03</td><td>227</td><td>67</td><td>Average</td></tr></tbody></table>						Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	2412.00	102.86	-----	-----	90.09	26.90	8.79	32.95	10.03	227	67
	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark																																																																												
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																													
1	2388.34	40.21	54.00	-13.79	27.66	26.70	8.75	32.93	10.03	227	67	Average																																																																												
	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark																																																																												
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																													
1	2412.00	102.86	-----	-----	90.09	26.90	8.79	32.95	10.03	227	67	Average																																																																												

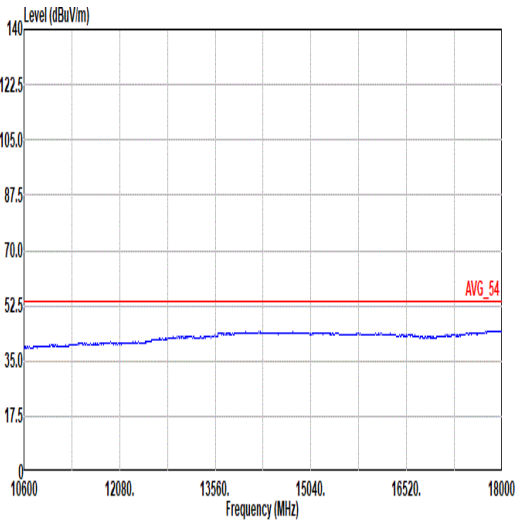
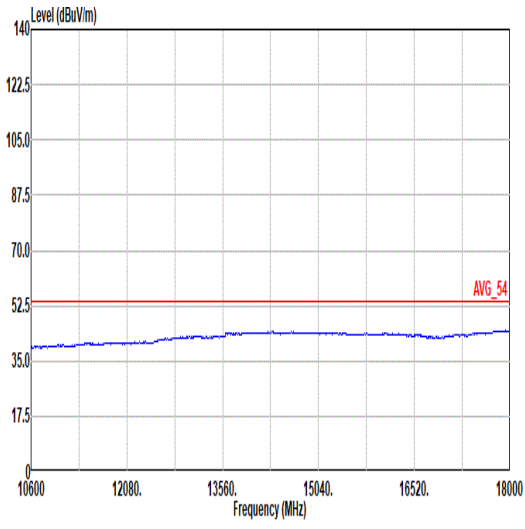


Mode	1																																																																																															
	Band Edge																																																																																															
	2400-2483.5_802.11b_CH01_2412MHz																																																																																															
ANT	1+2																																																																																															
Pol.	Vertical						Fundamental																																																																																									
Peak																																																																																																
	Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto						Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto																																																																																									
	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2356.82</td><td>56.37</td><td>74.00</td><td>-17.63</td><td>43.60</td><td>26.97</td><td>8.68</td><td>32.91</td><td>10.03</td><td>207</td><td>269 Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2356.82	56.37	74.00	-17.63	43.60	26.97	8.68	32.91	10.03	207	269 Peak	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2412.00</td><td>116.86</td><td>-----</td><td>-----</td><td>104.13</td><td>26.86</td><td>8.79</td><td>32.95</td><td>10.03</td><td>207</td><td>269 Peak</td></tr></table>						Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2412.00	116.86	-----	-----	104.13	26.86	8.79	32.95	10.03	207
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																							
Freq	Level	Line	Level	Factor	Loss	Factor	Factor																																																																																									
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																						
1	2356.82	56.37	74.00	-17.63	43.60	26.97	8.68	32.91	10.03	207	269 Peak																																																																																					
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																							
Freq	Level	Line	Level	Factor	Loss	Factor	Factor																																																																																									
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																						
1	2412.00	116.86	-----	-----	104.13	26.86	8.79	32.95	10.03	207	269 Peak																																																																																					
Avg																																																																																																
	Site : 03CH21-HY Condition: AVG_BE_54 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:0.120kHz SMT:Auto						Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:0.120kHz SMT:Auto																																																																																									
	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2354.98</td><td>48.85</td><td>54.00</td><td>-5.15</td><td>36.10</td><td>26.95</td><td>8.68</td><td>32.91</td><td>10.03</td><td>207</td><td>269 Average</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2354.98	48.85	54.00	-5.15	36.10	26.95	8.68	32.91	10.03	207	269 Average	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2412.00</td><td>112.90</td><td>-----</td><td>-----</td><td>100.17</td><td>26.86</td><td>8.79</td><td>32.95</td><td>10.03</td><td>207</td><td>269 Average</td></tr></table>						Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2412.00	112.90	-----	-----	100.17	26.86	8.79	32.95	10.03	207
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																							
Freq	Level	Line	Level	Factor	Loss	Factor	Factor																																																																																									
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																						
1	2354.98	48.85	54.00	-5.15	36.10	26.95	8.68	32.91	10.03	207	269 Average																																																																																					
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																							
Freq	Level	Line	Level	Factor	Loss	Factor	Factor																																																																																									
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																						
1	2412.00	112.90	-----	-----	100.17	26.86	8.79	32.95	10.03	207	269 Average																																																																																					



Mode	1																																																																	
	Harmonic																																																																	
	2400-2483.5_802.11b_CH01_2412MHz																																																																	
ANT	1+2																																																																	
Pol.	Horizontal						Vertical																																																											
Peak Avg																																																																		
	Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL						Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_240711 VERTICAL																																																											
<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4824.00</td><td>49.15</td><td>74.00</td><td>-24.85</td><td>37.97</td><td>32.25</td><td>12.68</td><td>34.18</td><td>0.43</td><td>103</td><td>73 Peak</td></tr><tr><td>2</td><td>4824.00</td><td>42.15</td><td>54.00</td><td>-11.85</td><td>30.97</td><td>32.25</td><td>12.68</td><td>34.18</td><td>0.43</td><td>103</td><td>73 Average</td></tr></table>													Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	4824.00	49.15	74.00	-24.85	37.97	32.25	12.68	34.18	0.43	103	73 Peak	2	4824.00	42.15	54.00	-11.85	30.97	32.25	12.68	34.18	0.43	103	73 Average
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																									
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																										
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																								
1	4824.00	49.15	74.00	-24.85	37.97	32.25	12.68	34.18	0.43	103	73 Peak																																																							
2	4824.00	42.15	54.00	-11.85	30.97	32.25	12.68	34.18	0.43	103	73 Average																																																							



Mode	1	
	Harmonic	
	2400-2483.5_802.11b_CH01_2412MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	 <p>Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL</p>	 <p>Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 VERTICAL</p>