

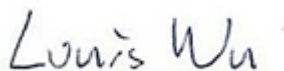


FCC RADIO TEST REPORT

FCC ID : 2AEUP-5DFYA9
Equipment : Video Doorbell
Brand Name : ring 
Model Name : 5DFYA9
Applicant : Ring LLC
12515 Cerise Ave, Hawthorne, CA 90250, USA
Manufacturer : Ring LLC
12515 Cerise Ave, Hawthorne, CA 90250, USA
Standard : FCC Part 15 Subpart C §15.247

The product was received on Jul. 29, 2025 and testing was performed from Aug. 12, 2025 to Jan. 07, 2026. 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.



Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR572903-01B	01	Initial issue of report	Jan. 14, 2026



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. ECR inquiry for data referencing from FCC ID: 2AEUPBHADP021 has been approved by TCB. The ECR inquiry and the associated document are submitted in the confidential exhibit.
2. FCC ID: 2AEUP-5DFYA9 is different from FCC ID: 2AEUPBHADP021 (Reference model), in the following:
 - The only difference between FCC ID: 2AEUP-5DFYA9 and FCC ID: 2AEUPBHADP021 are Remove 24G Radar Function& Component
3. All the test results are referenced from FCC ID: 2AEUPBHADP021 (Sporton Test Report FR572903B), and spot check results to justify data referencing is presented in the Appendix F.
4. 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.
5. 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: Keven Cheng

Report Producer: Dara Chiu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, and Wi-Fi 5GHz 802.11a/n/ac/ax		
Antenna Type WLAN: Stamped metal IFA antenna		
Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	3.50

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

1.2 EUT Information (Referenced Model)

Product Feature		
General Specs Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, and 24GHz Radar		
Antenna Type WLAN: Stamped metal IFA antenna		
Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	3.50

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

1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY, CO07-HY, 03CH12-HY

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

FCC designation No.: TW3786



1.5 Applicable Standards

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

- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC Part 15 Subpart C §15.247
- ♦ ANSI C63.10-2020

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	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432	12	2467
	6	2437	13	2472
	7	2442		

2.2 Test Mode

This device support 26/52/106 tone RU.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The power for 802.11n mode is smaller than 802.11ac mode, so all other conducted and radiated test is covered by 802.11ac mode.

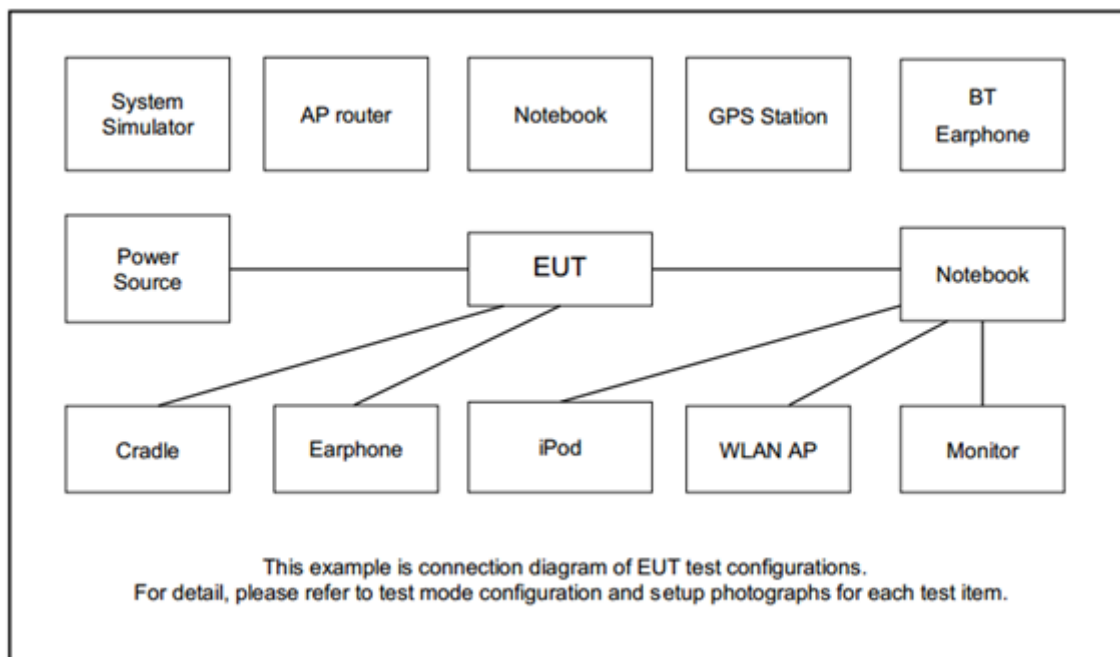
The final test modes include the worst data rates for each modulation shown in the table below.

Single Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20 (Covered by VHT20)	MCS0
802.11ac VHT20	MCS0
802.11ax HE20	MCS0

Test Cases	
AC Conducted Emission	Mode 1 :BLE Link + Adapter Mode 2 WLAN (2.4GHz) Link + Adapter
Remark: 1. The worst case of Conducted Emission is mode 2; only the test data of it was reported. 2. The detailed Radiated test modes are shown in Appendix C. 3. For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.	

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.	Mobile Phone	Samsung	Galaxy A21S	A3LSMA217F	N/A	N/A
2.	WLAN AP	ASUS	RT-AC52	MSQ-RTAC4A00	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “Tera Term v4.95” 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.

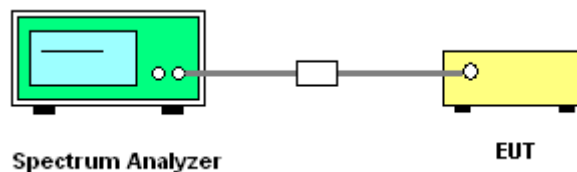
3.1.2 Measuring Instruments

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) = 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth VBW $\geq 3 * RBW$. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.
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) $\geq 3 * RBW$.
5. 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.

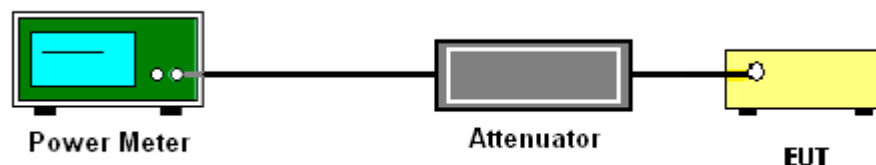
3.2.2 Measuring Instruments

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.

3.2.4 Test Setup



3.2.5 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 = No faster than coupled (auto) time, 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.

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.

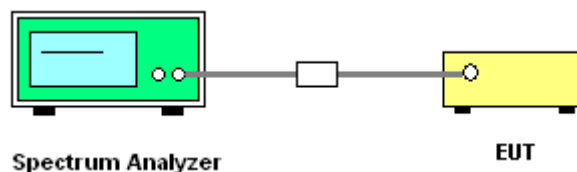
3.4.2 Measuring Instruments

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 “-”.

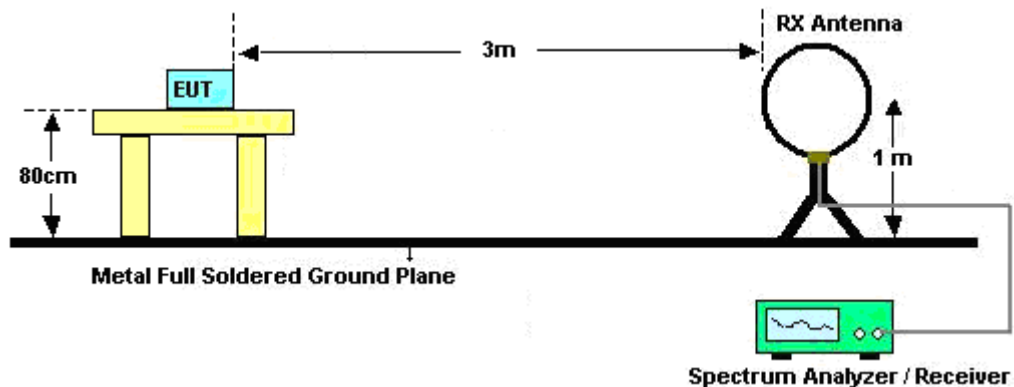
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with 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:

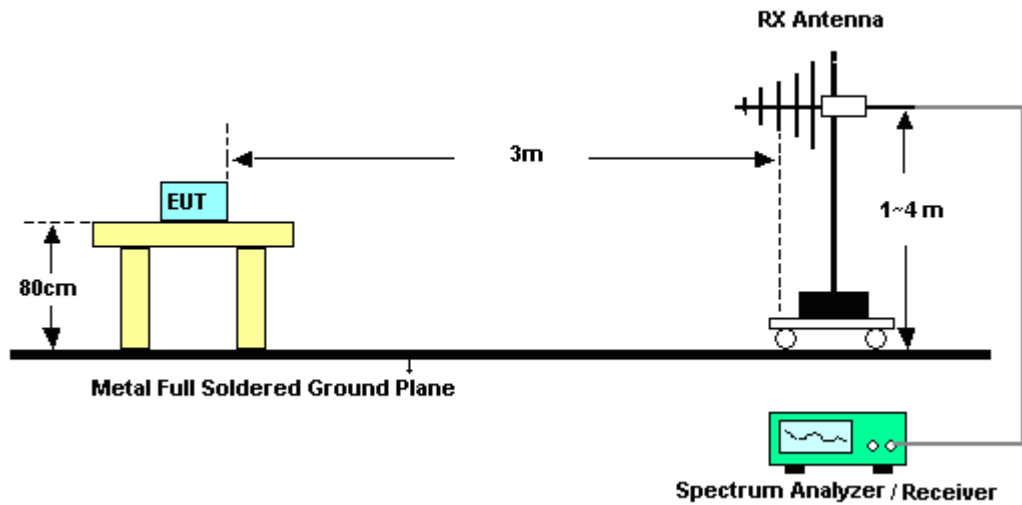
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

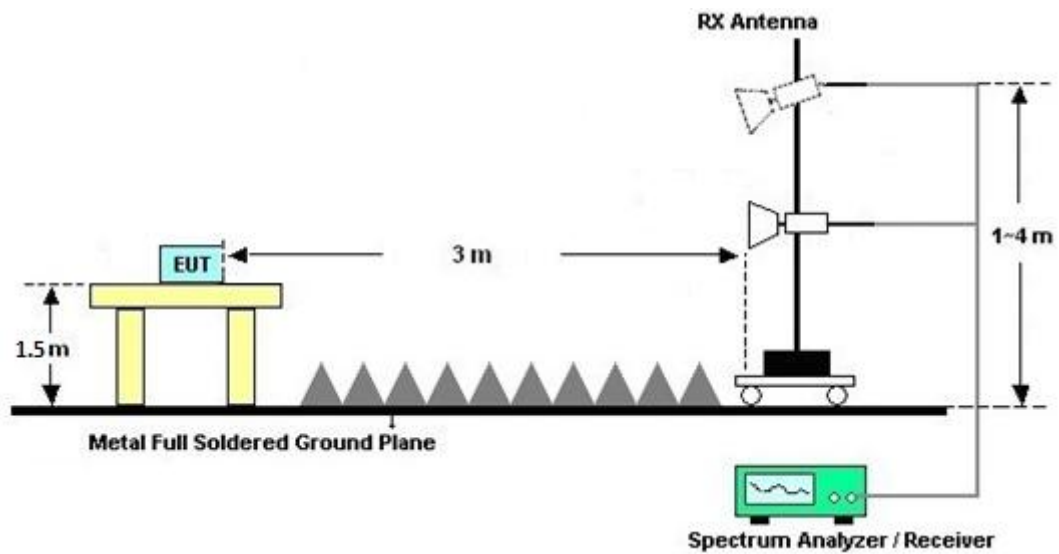
For radiated emissions below 30MHz



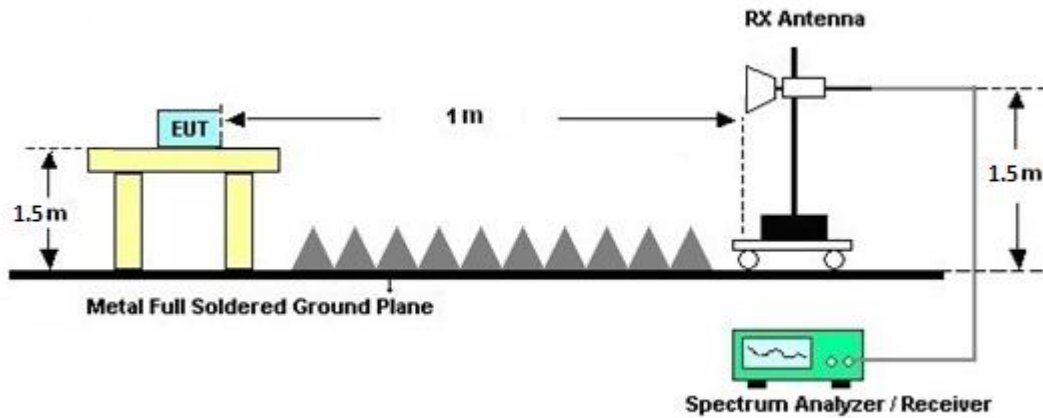
For radiated emissions from 30MHz to 1GHz



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 ~ 10th 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 μ 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.

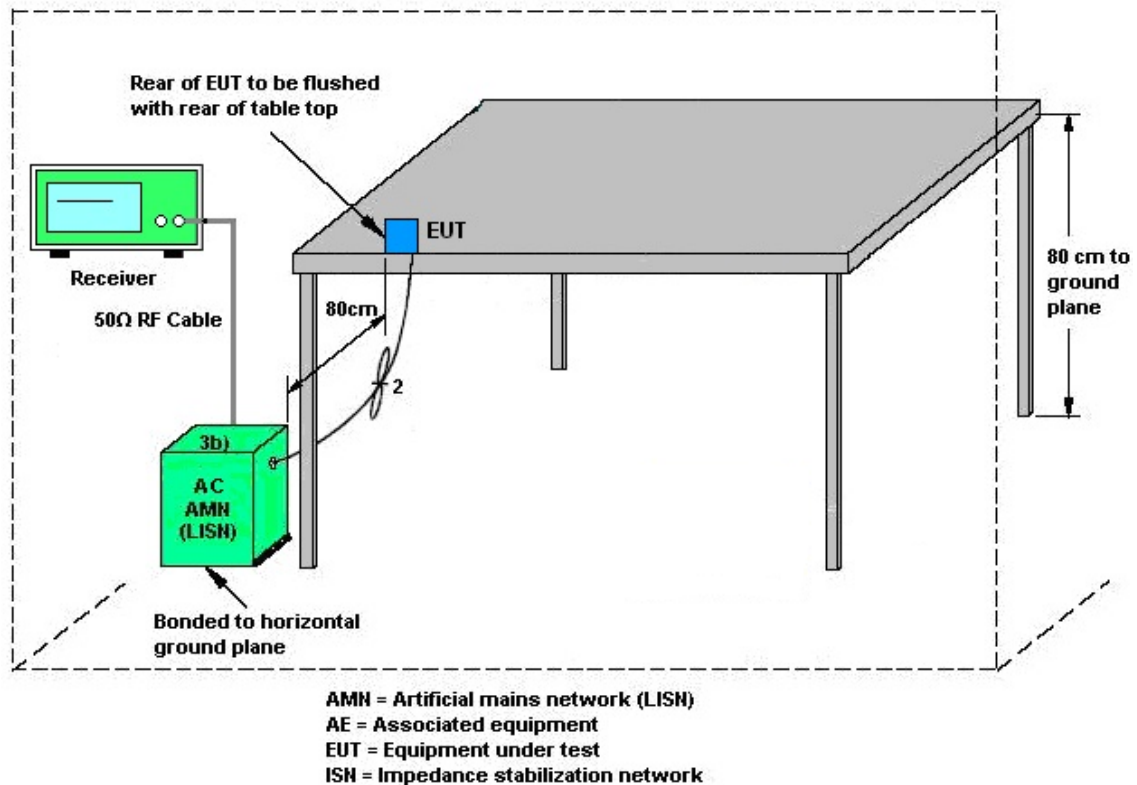
3.6.2 Measuring Instruments

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-Z2E	101108	9 kHz~30 MHz	Dec. 18, 2024	Aug. 13, 2025~ Aug. 27, 2025	Dec. 17, 2025	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Nov. 27, 2024	Aug. 13, 2025~ Aug. 27, 2025	Nov. 26, 2025	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Jul. 02, 2025	Aug. 13, 2025~ Aug. 27, 2025	Jul. 01, 2026	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00994	18GHz~40GHz	Jan. 09, 2025	Aug. 13, 2025~ Aug. 27, 2025	Jan. 08, 2026	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 19, 2025	Aug. 13, 2025~ Aug. 27, 2025	Mar. 18, 2026	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	Feb. 07, 2025	Aug. 13, 2025~ Aug. 27, 2025	Feb. 06, 2026	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900269	1GHz-18GHz	Dec. 19, 2024	Aug. 13, 2025~ Aug. 27, 2025	Dec. 18, 2025	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 02, 2024	Aug. 13, 2025~ Aug. 27, 2025	Dec. 01, 2025	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010B	MY64320114	10Hz~44GHz	Oct. 05, 2024	Aug. 13, 2025~ Aug. 27, 2025	Oct. 04, 2025	Radiation (03CH12-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	Sep. 09, 2024	Aug. 13, 2025~ Aug. 27, 2025	Sep. 08, 2025	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN2	3GHz High Pass Filter	Mar. 12, 2025	Aug. 13, 2025~ Aug. 27, 2025	Mar. 11, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WLKS1200-12 SS	SN2	1.2GHz Low Pass Filter	Mar. 12, 2025	Aug. 13, 2025~ Aug. 27, 2025	Mar. 11, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN2	6.75GHz High Pass Filter	Mar. 12, 2025	Aug. 13, 2025~ Aug. 27, 2025	Mar. 11, 2026	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 19, 2024	Aug. 13, 2025~ Aug. 27, 2025	Dec. 18, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803955/2	30MHz~40GHz	Nov. 01, 2024	Aug. 13, 2025~ Aug. 27, 2025	Oct. 31, 2025	Radiation (03CH12-HY)
RF Cable	EMCI	EMC101Y-KM- KM-100	240907	30MHz~40GHz	Nov. 14, 2024	Aug. 13, 2025~ Aug. 27, 2025	Nov. 13, 2025	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210090	N/A	Aug. 29, 2024	Aug. 13, 2025~ Aug. 27, 2025	Aug. 28, 2025	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 13, 2025~ Aug. 27, 2025	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Aug. 13, 2025~ Aug. 27, 2025	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Aug. 13, 2025~ Aug. 27, 2025	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Aug. 13, 2025~ Aug. 27, 2025	N/A	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Aug. 29, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Aug. 29, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Oct. 23, 2024	Aug. 29, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 03, 2025	Aug. 29, 2025	Mar. 02, 2026	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	Aug. 29, 2025	Mar. 23, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Aug. 29, 2025	Sep. 22, 2025	Conduction (CO07-HY)
Hygrometer	TECEPIL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Aug. 12, 2025~ Sep. 26, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO 31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Aug. 12, 2025~ Sep. 26, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10HZ~44GHZ	Jan. 14, 2025	Aug. 12, 2025~ Sep. 26, 2025	Jan. 13, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instrument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	Aug. 12, 2025~ Sep. 26, 2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version_24051 3	N/A	Conducted Other Test Item	N/A	Aug. 12, 2025~ Sep. 26, 2025	N/A	Conducted (TH05-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
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.3 dB
--	--------

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Jay Chen	Temperature:	21~25	°C
Test Date:	2025/8/12~2025/9/25	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna										
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	1	1	2412	13.08	-	9.05	-	0.50	Pass
11b	1Mbps	1	6	2437	13.11	-	8.64	-	0.50	Pass
11b	1Mbps	1	11	2462	13.14	-	9.05	-	0.50	Pass
11b	1Mbps	1	12	2467	13.05	-	8.63	-	0.50	Pass
11b	1Mbps	1	13	2472	13.23	-	9.08	-	0.50	Pass
11g	6Mbps	1	1	2412	17.07	-	15.92	-	0.50	Pass
11g	6Mbps	1	6	2437	17.33	-	16.07	-	0.50	Pass
11g	6Mbps	1	11	2462	17.06	-	15.96	-	0.50	Pass
11g	6Mbps	1	12	2467	17.02	-	16.06	-	0.50	Pass
11g	6Mbps	1	13	2472	17.02	-	16.04	-	0.50	Pass
VHT20	MCS0	1	1	2412	17.92	-	17.15	-	0.50	Pass
VHT20	MCS0	1	6	2437	18.15	-	17.31	-	0.50	Pass
VHT20	MCS0	1	11	2462	17.94	-	17.12	-	0.50	Pass
VHT20	MCS0	1	12	2467	17.95	-	17.23	-	0.50	Pass
VHT20	MCS0	1	13	2472	17.90	-	17.18	-	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average 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	1	1	2412	19.96	-		30.00	-	3.50	-	23.46	-	36.00	-	Pass
11b	1Mbps	1	6	2437	20.17	-		30.00	-	3.50	-	23.67	-	36.00	-	Pass
11b	1Mbps	1	11	2462	20.46	-		30.00	-	3.50	-	23.96	-	36.00	-	Pass
11b	1Mbps	1	12	2467	15.17	-		30.00	-	3.50	-	18.67	-	36.00	-	Pass
11b	1Mbps	1	13	2472	14.27	-		30.00	-	3.50	-	17.77	-	36.00	-	Pass
11g	6Mbps	1	1	2412	16.14	-		30.00	-	3.50	-	19.64	-	36.00	-	Pass
11g	6Mbps	1	2	2417	18.39	-		30.00	-	3.50	-	21.89	-	36.00	-	Pass
11g	6Mbps	1	6	2437	20.12	-		30.00	-	3.50	-	23.62	-	36.00	-	Pass
11g	6Mbps	1	10	2457	17.28	-		30.00	-	3.50	-	20.78	-	36.00	-	Pass
11g	6Mbps	1	11	2462	16.10	-		30.00	-	3.50	-	19.60	-	36.00	-	Pass
11g	6Mbps	1	12	2467	15.36	-		30.00	-	3.50	-	18.86	-	36.00	-	Pass
11g	6Mbps	1	13	2472	9.42	-		30.00	-	3.50	-	12.92	-	36.00	-	Pass
HT20	MCS0	1	1	2412	15.84	-		30.00	-	3.50	-	19.34	-	36.00	-	Pass
HT20	MCS0	1	2	2417	17.23	-		30.00	-	3.50	-	20.73	-	36.00	-	Pass
HT20	MCS0	1	6	2437	19.45	-		30.00	-	3.50	-	22.95	-	36.00	-	Pass
HT20	MCS0	1	10	2457	16.71	-		30.00	-	3.50	-	20.21	-	36.00	-	Pass
HT20	MCS0	1	11	2462	14.68	-		30.00	-	3.50	-	18.18	-	36.00	-	Pass
HT20	MCS0	1	12	2467	14.18	-		30.00	-	3.50	-	17.68	-	36.00	-	Pass
HT20	MCS0	1	13	2472	9.24	-		30.00	-	3.50	-	12.74	-	36.00	-	Pass
VHT20	MCS0	1	1	2412	15.89	-		30.00	-	3.50	-	19.39	-	36.00	-	Pass
VHT20	MCS0	1	2	2417	17.27	-		30.00	-	3.50	-	20.77	-	36.00	-	Pass
VHT20	MCS0	1	6	2437	19.50	-		30.00	-	3.50	-	23.00	-	36.00	-	Pass
VHT20	MCS0	1	10	2457	16.76	-		30.00	-	3.50	-	20.26	-	36.00	-	Pass
VHT20	MCS0	1	11	2462	14.74	-		30.00	-	3.50	-	18.24	-	36.00	-	Pass
VHT20	MCS0	1	12	2467	14.25	-		30.00	-	3.50	-	17.75	-	36.00	-	Pass
VHT20	MCS0	1	13	2472	9.32	-		30.00	-	3.50	-	12.82	-	36.00	-	Pass

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Single Antenna												
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	1	1	2412	-2.47	-		3.50	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-1.81	-		3.50	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-2.65	-		3.50	-	8.00	-	Pass
11b	1Mbps	1	12	2467	-7.14	-		3.50	-	8.00	-	Pass
11b	1Mbps	1	13	2472	-8.79	-		3.50	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-8.99	-		3.50	-	8.00	-	Pass
11g	6Mbps	1	2	2417	-6.63	-		3.50	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-5.66	-		3.50	-	8.00	-	Pass
11g	6Mbps	1	10	2457	-8.00	-		3.50	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-8.85	-		3.50	-	8.00	-	Pass
11g	6Mbps	1	12	2467	-10.43	-		3.50	-	8.00	-	Pass
11g	6Mbps	1	13	2472	-16.10	-		3.50	-	8.00	-	Pass
VHT20	MCS0	1	1	2412	-10.99	-		3.50	-	8.00	-	Pass
VHT20	MCS0	1	2	2417	-10.20	-		3.50	-	8.00	-	Pass
VHT20	MCS0	1	6	2437	-7.75	-		3.50	-	8.00	-	Pass
VHT20	MCS0	1	10	2457	-10.96	-		3.50	-	8.00	-	Pass
VHT20	MCS0	1	11	2462	-12.35	-		3.50	-	8.00	-	Pass
VHT20	MCS0	1	12	2467	-13.39	-		3.50	-	8.00	-	Pass
VHT20	MCS0	1	13	2472	-17.61	-		3.50	-	8.00	-	Pass

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna											
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	RU Config	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant1	Ant2	Ant1	Ant2		
HE20	MCS0	1	1	2412	Full	18.85	-	18.74	-	0.50	Pass
HE20	MCS0	1	6	2437	Full	18.96	-	18.54	-	0.50	Pass
HE20	MCS0	1	11	2462	Full	18.85	-	18.46	-	0.50	Pass
HE20	MCS0	1	12	2467	Full	18.86	-	18.63	-	0.50	Pass
HE20	MCS0	1	13	2472	Full	18.85	-	18.58	-	0.50	Pass

TEST RESULTS DATA
Average Output Power

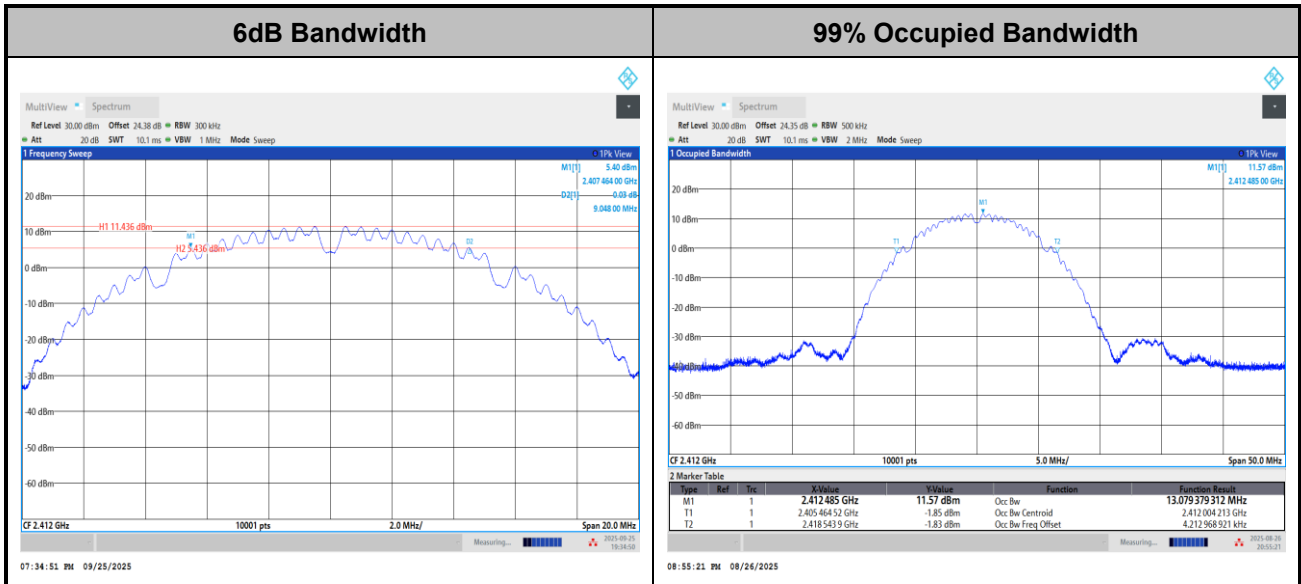
2.4GHz Band Single Antenna																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	1	1	2412	Full	16.06	-		30.00	-	3.50	-	19.56	-	36.00	-	Pass
HE20	MCS0	1	1	2412	26/0	7.61	-		30.00	-	3.50	-	11.11	-	36.00	-	Pass
HE20	MCS0	1	1	2412	52/37	9.84	-		30.00	-	3.50	-	13.34	-	36.00	-	Pass
HE20	MCS0	1	1	2412	106/53	14.12	-		30.00	-	3.50	-	17.62	-	36.00	-	Pass
HE20	MCS0	1	2	2417	Full	17.50	-		30.00	-	3.50	-	21.00	-	36.00	-	Pass
HE20	MCS0	1	2	2417	26/0	7.55	-		30.00	-	3.50	-	11.05	-	36.00	-	Pass
HE20	MCS0	1	2	2417	52/37	10.28	-		30.00	-	3.50	-	13.78	-	36.00	-	Pass
HE20	MCS0	1	2	2417	106/53	13.19	-		30.00	-	3.50	-	16.69	-	36.00	-	Pass
HE20	MCS0	1	6	2437	Full	19.65	-		30.00	-	3.50	-	23.15	-	36.00	-	Pass
HE20	MCS0	1	6	2437	26/4	11.27	-		30.00	-	3.50	-	14.77	-	36.00	-	Pass
HE20	MCS0	1	6	2437	52/38	14.29	-		30.00	-	3.50	-	17.79	-	36.00	-	Pass
HE20	MCS0	1	6	2437	106/53	17.67	-		30.00	-	3.50	-	21.17	-	36.00	-	Pass
HE20	MCS0	1	10	2457	Full	16.85	-		30.00	-	3.50	-	20.35	-	36.00	-	Pass
HE20	MCS0	1	10	2457	26/8	6.95	-		30.00	-	3.50	-	10.45	-	36.00	-	Pass
HE20	MCS0	1	10	2457	52/40	9.91	-		30.00	-	3.50	-	13.41	-	36.00	-	Pass
HE20	MCS0	1	10	2457	106/54	12.75	-		30.00	-	3.50	-	16.25	-	36.00	-	Pass
HE20	MCS0	1	11	2462	Full	14.85	-		30.00	-	3.50	-	18.35	-	36.00	-	Pass
HE20	MCS0	1	11	2462	26/8	6.55	-		30.00	-	3.50	-	10.05	-	36.00	-	Pass
HE20	MCS0	1	11	2462	52/40	10.02	-		30.00	-	3.50	-	13.52	-	36.00	-	Pass
HE20	MCS0	1	11	2462	106/54	13.20	-		30.00	-	3.50	-	16.70	-	36.00	-	Pass
HE20	MCS0	1	12	2467	Full	14.34	-		30.00	-	3.50	-	17.84	-	36.00	-	Pass
HE20	MCS0	1	12	2467	26/8	6.02	-		30.00	-	3.50	-	9.52	-	36.00	-	Pass
HE20	MCS0	1	12	2467	52/40	9.02	-		30.00	-	3.50	-	12.52	-	36.00	-	Pass
HE20	MCS0	1	12	2467	106/54	12.82	-		30.00	-	3.50	-	16.32	-	36.00	-	Pass
HE20	MCS0	1	13	2472	Full	9.47	-		30.00	-	3.50	-	12.97	-	36.00	-	Pass
HE20	MCS0	1	13	2472	26/8	1.12	-		30.00	-	3.50	-	4.62	-	36.00	-	Pass
HE20	MCS0	1	13	2472	52/40	4.44	-		30.00	-	3.50	-	7.94	-	36.00	-	Pass
HE20	MCS0	1	13	2472	106/54	7.62	-		30.00	-	3.50	-	11.12	-	36.00	-	Pass

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Single Antenna													
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	RU Config	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	1	1	2412	Full	-10.77	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	1	2412	26/0	-11.13	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	1	2412	52/37	-11.06	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	1	2412	106/53	-11.23	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	2	2417	Full	-8.43	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	2	2417	26/0	-8.77	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	2	2417	52/37	-8.81	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	2	2417	106/53	-8.68	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	6	2437	Full	-6.98	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	6	2437	26/4	-7.35	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	6	2437	52/38	-7.09	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	6	2437	106/53	-7.05	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	10	2457	Full	-10.23	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	10	2457	26/8	-10.69	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	10	2457	52/40	-10.65	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	10	2457	106/54	-10.35	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	11	2462	Full	-11.84	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	11	2462	26/8	-12.32	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	11	2462	52/40	-12.16	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	11	2462	106/54	-11.98	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	12	2467	Full	-12.05	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	12	2467	26/8	-12.50	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	12	2467	52/40	-12.23	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	12	2467	106/54	-12.09	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	13	2472	Full	-16.69	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	13	2472	26/8	-16.92	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	13	2472	52/40	-16.98	-		3.50	-	8.00	-	Pass
HE20	MCS0	1	13	2472	106/54	-16.74	-		3.50	-	8.00	-	Pass

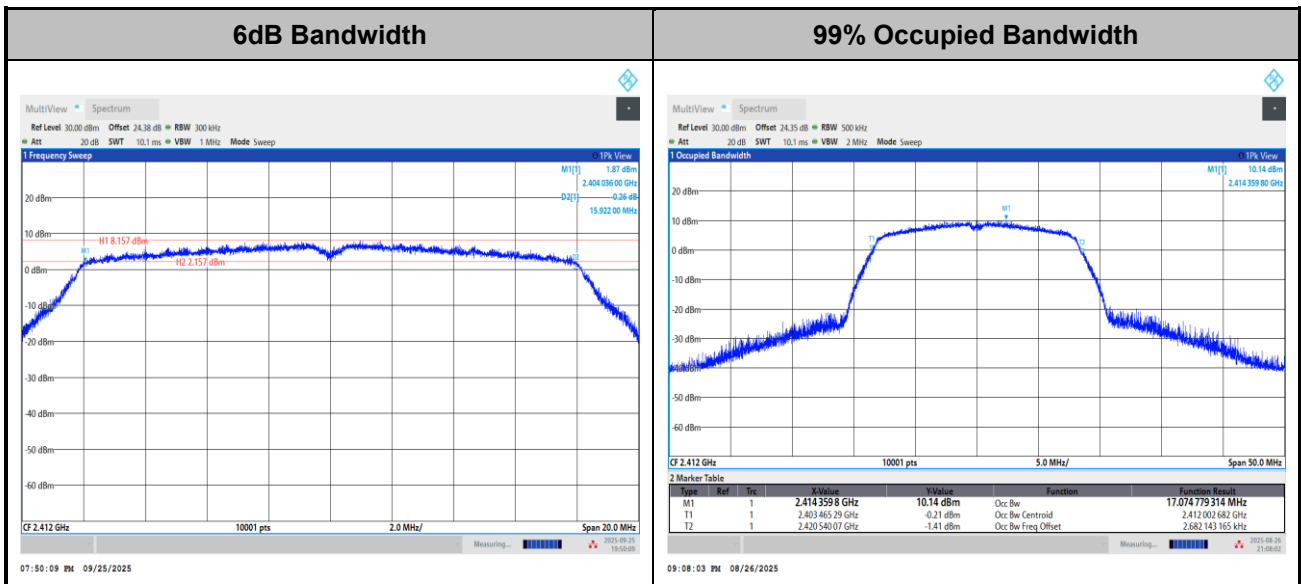
**6dB and 99% Occupied Bandwidth**

<802.11b>



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

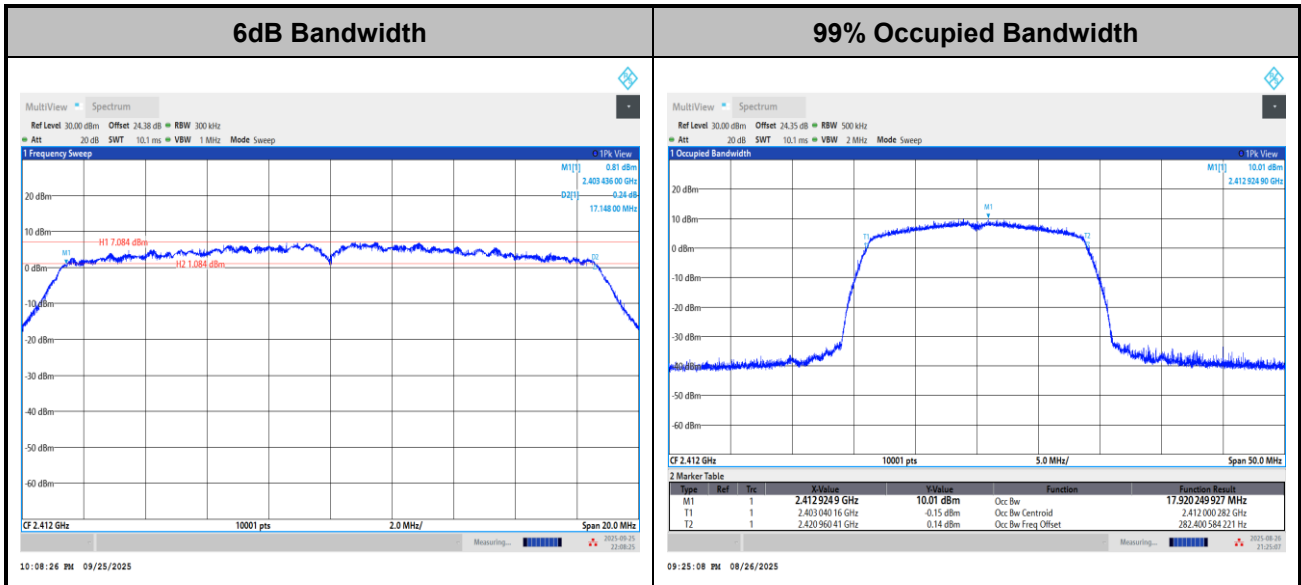
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Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

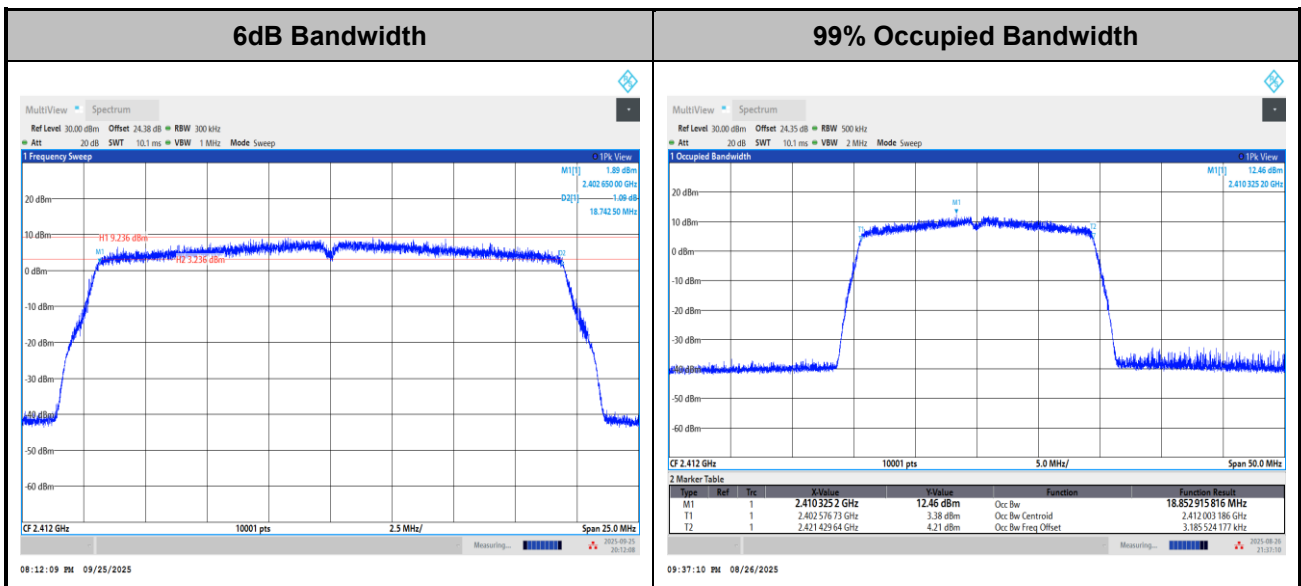


<802.11ac20>



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

<802.11ax20>

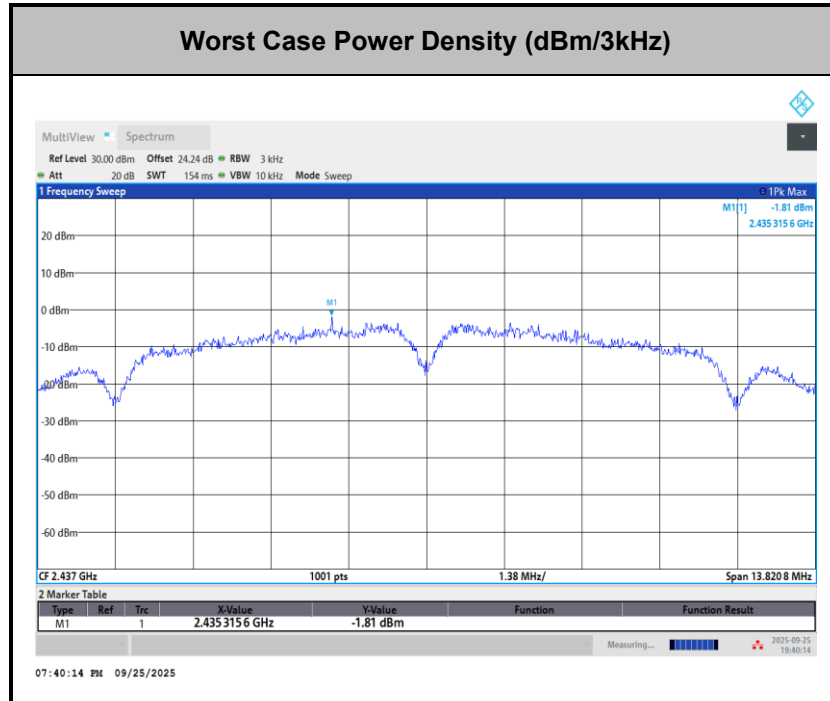


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

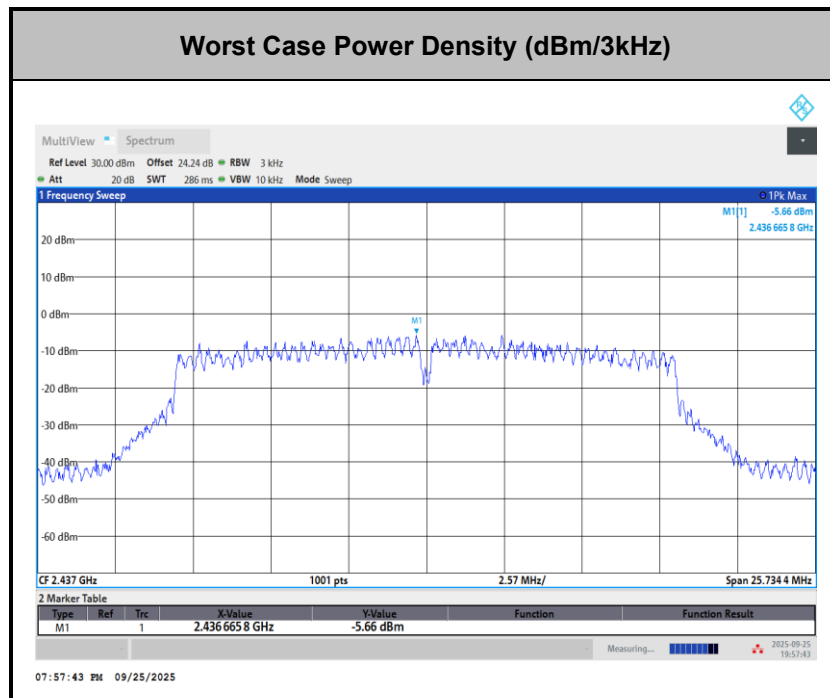


Power Spectral Density(dBm/3kHz)

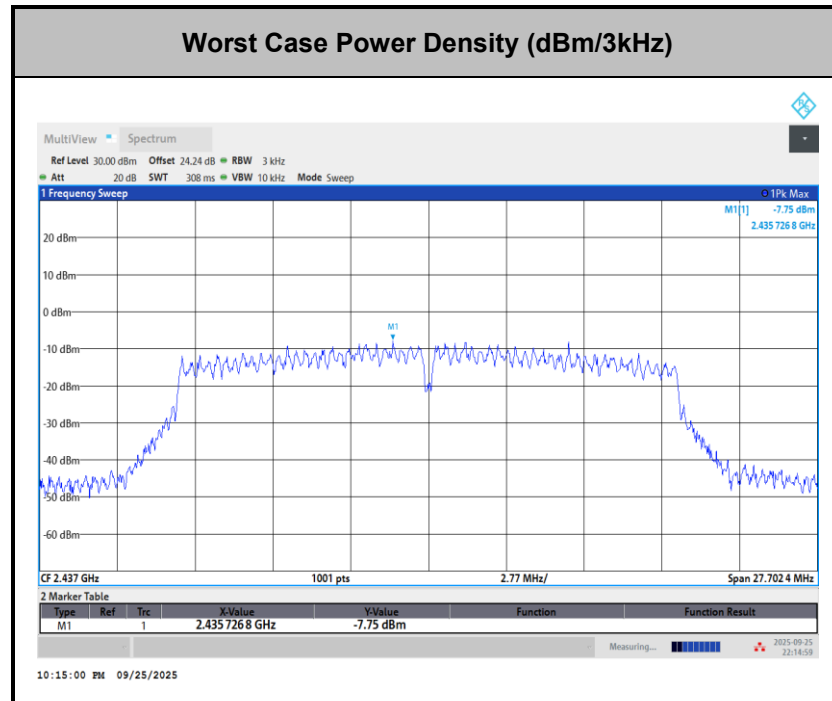
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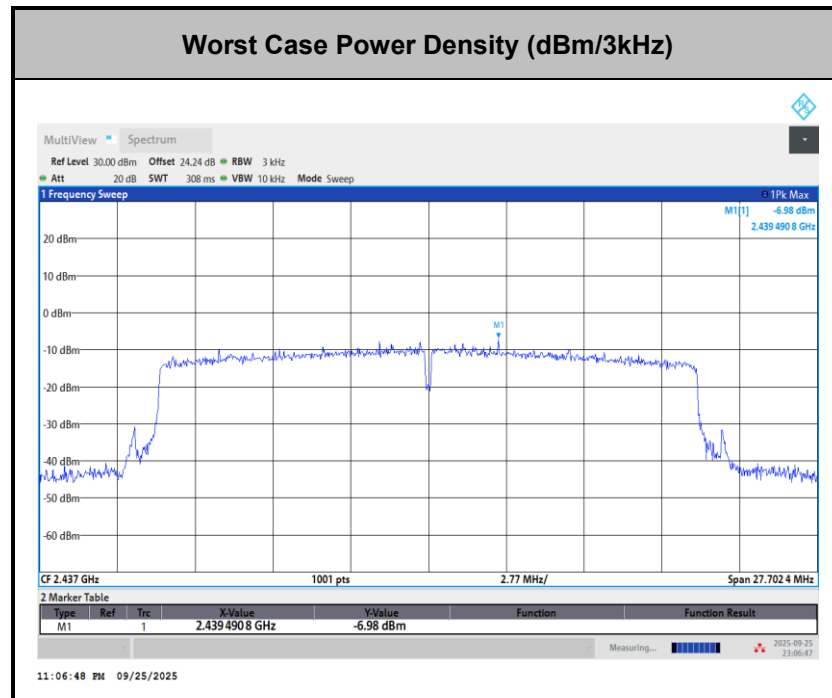
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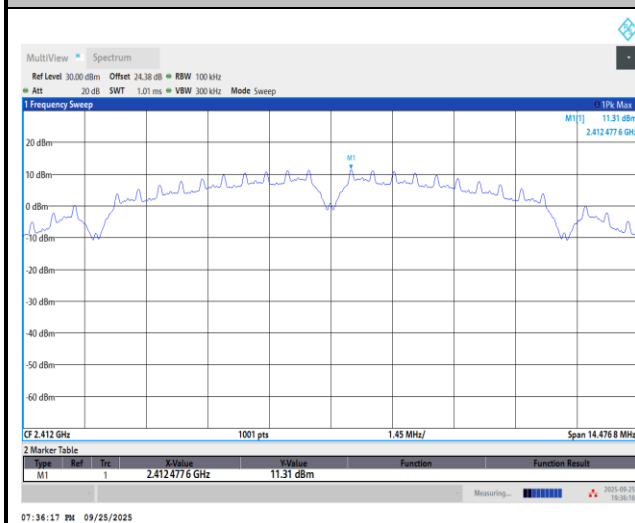
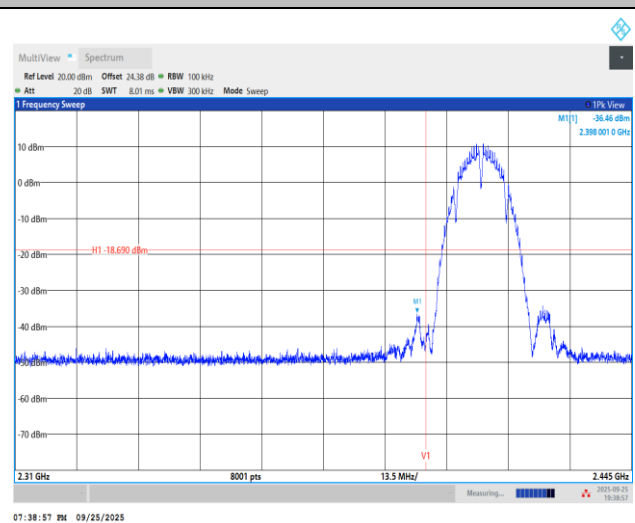
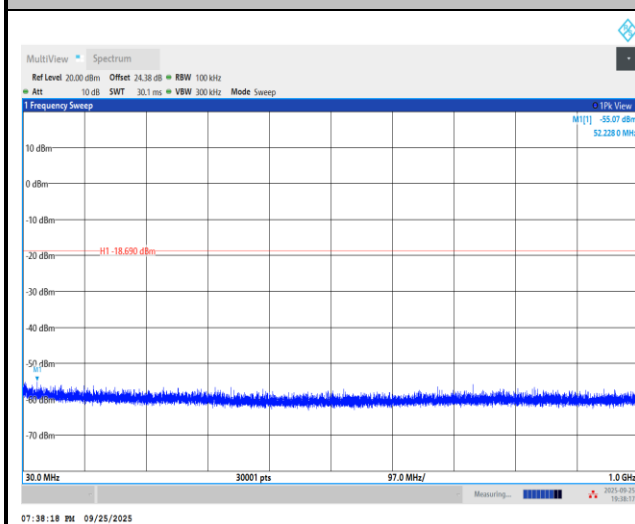
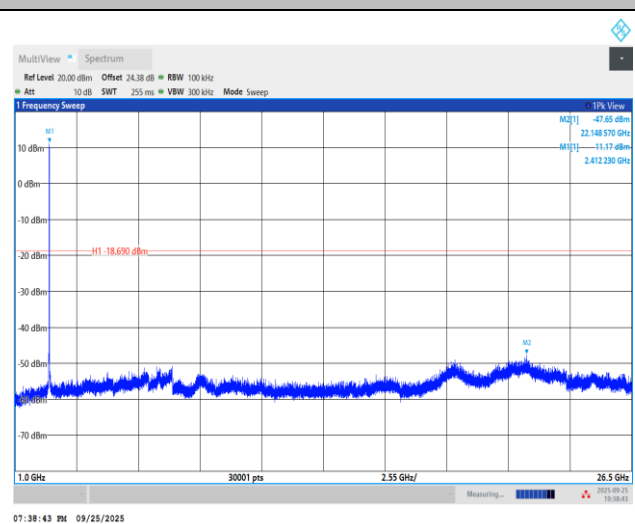


**Band Edges and Spurious Emission**

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

Test Mode : 802.11b

Test Channel : 01

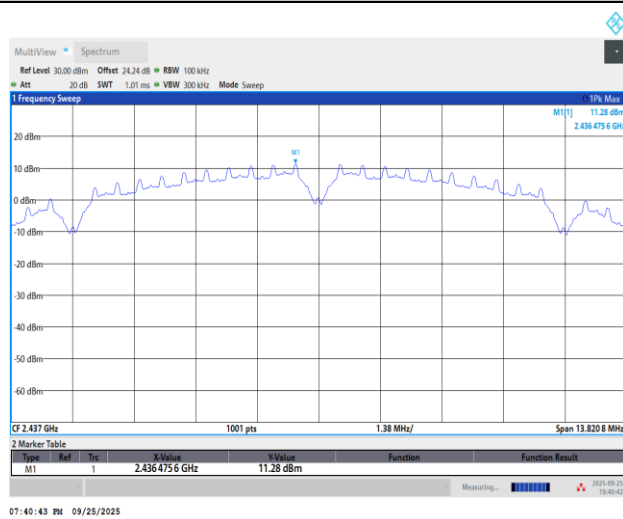
100kHz PSD reference Level**Channel 01 Plot****Spurious Emission 30MHz~1GHz****Spurious Emission 1GHz~26.5GHz**



Test Mode : 802.11b

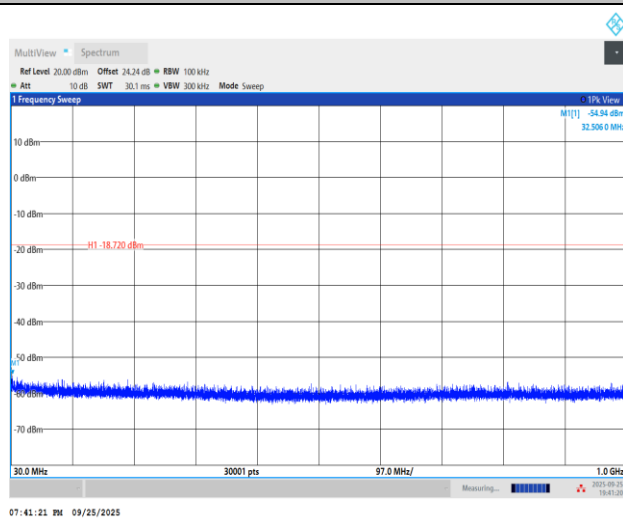
Test Channel : 06

100kHz PSD reference Level

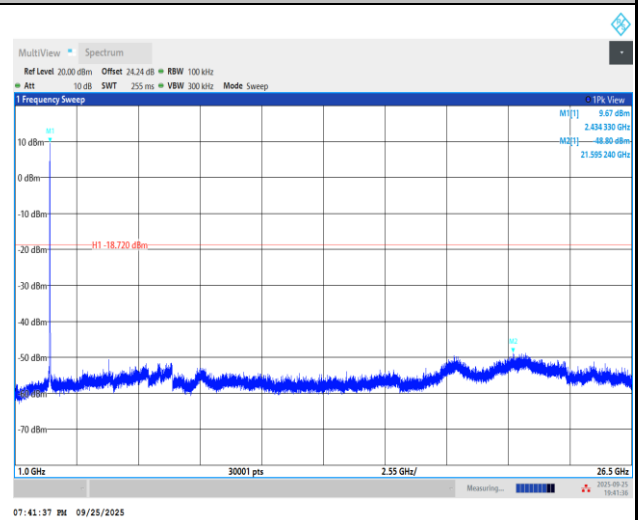


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

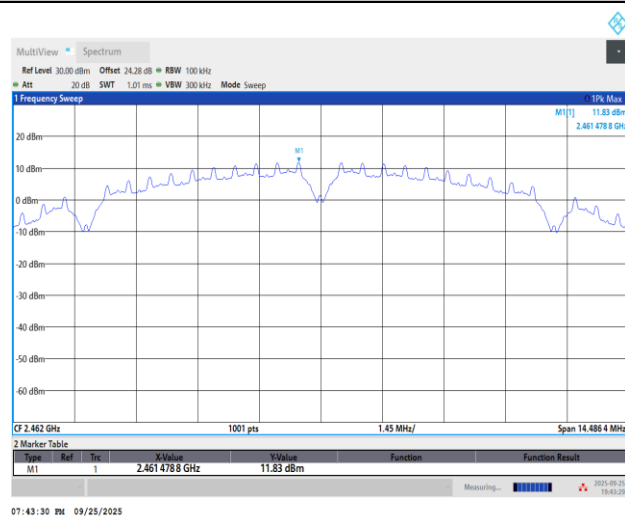




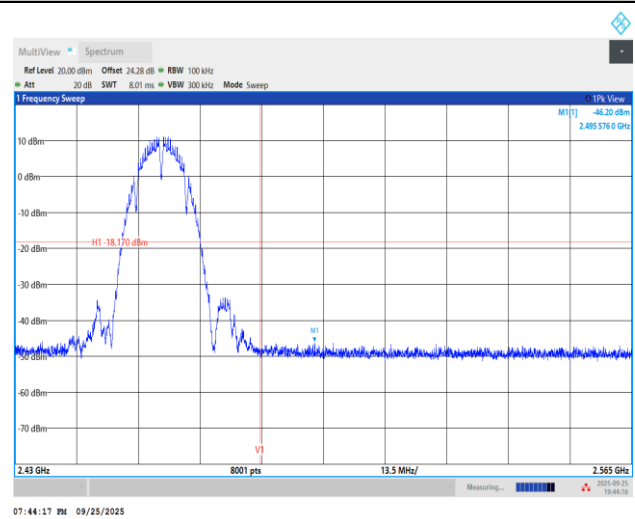
Test Mode : 802.11b

Test Channel : 11

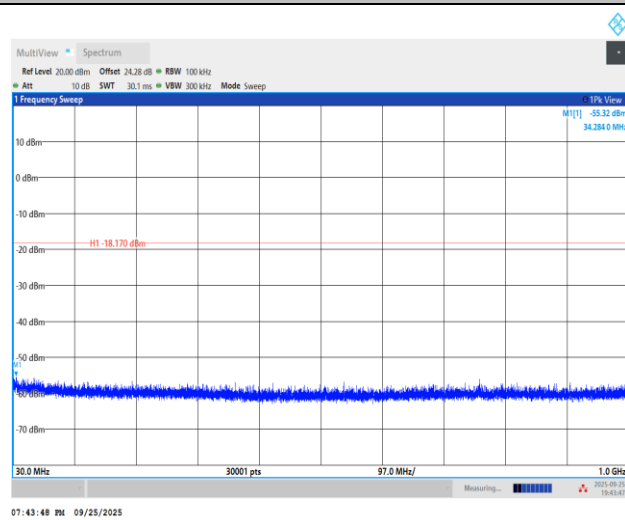
100kHz PSD reference Level



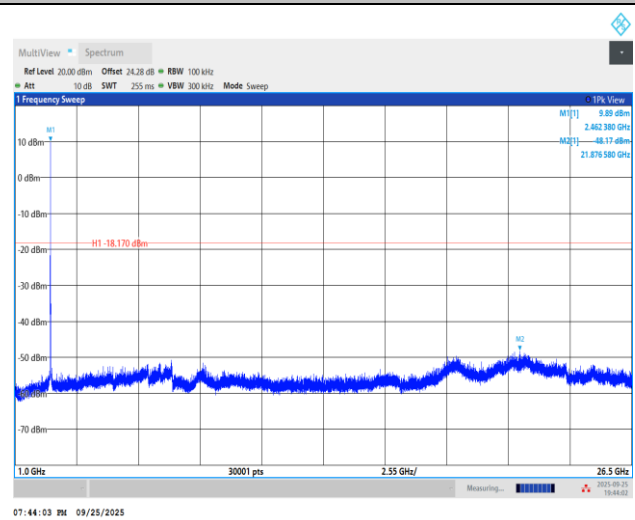
Channel 11 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

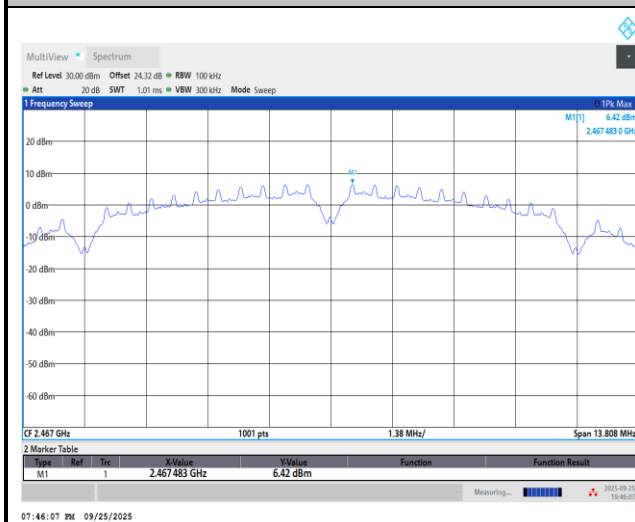




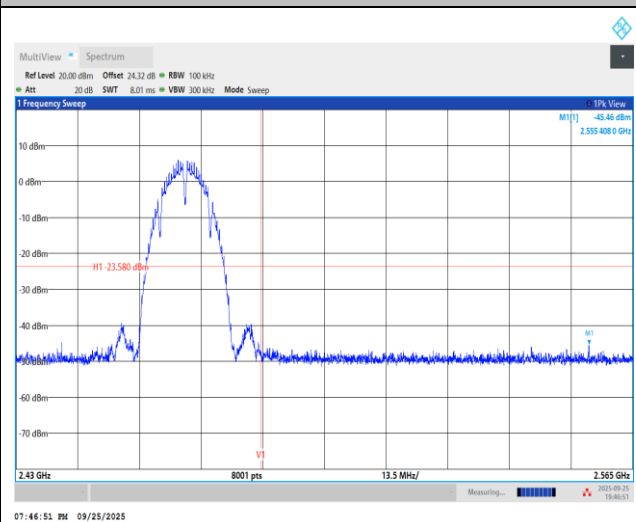
Test Mode : 802.11b

Test Channel : 12

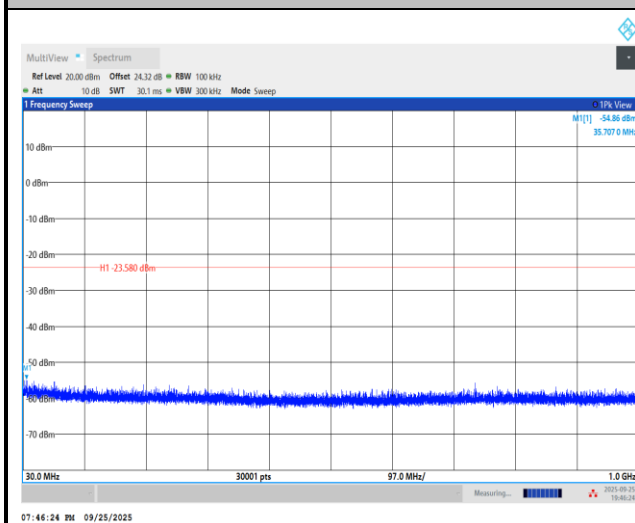
100kHz PSD reference Level



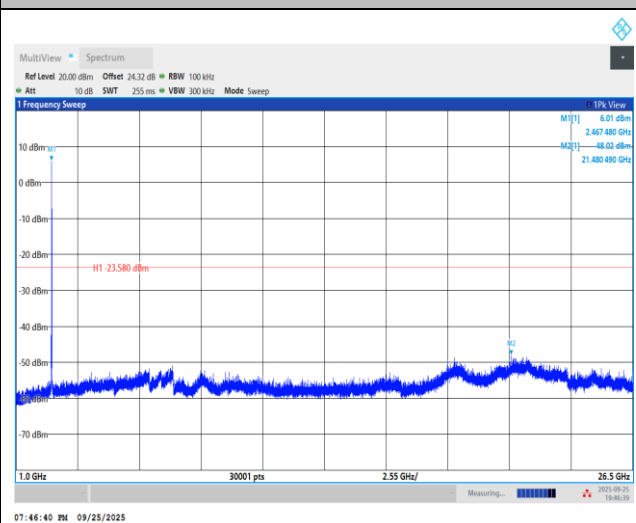
Channel 12 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

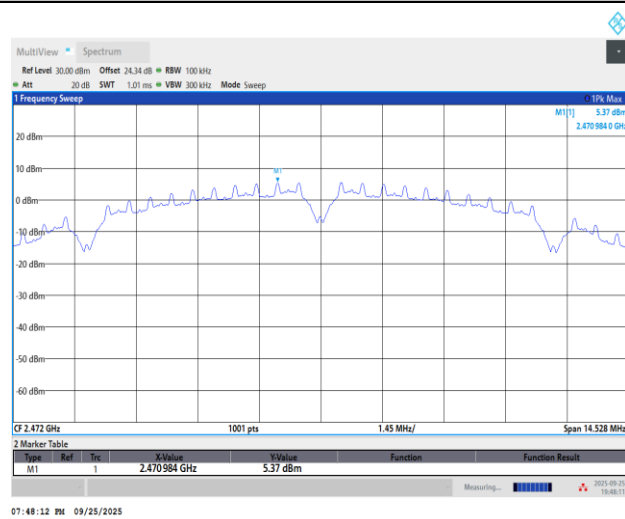




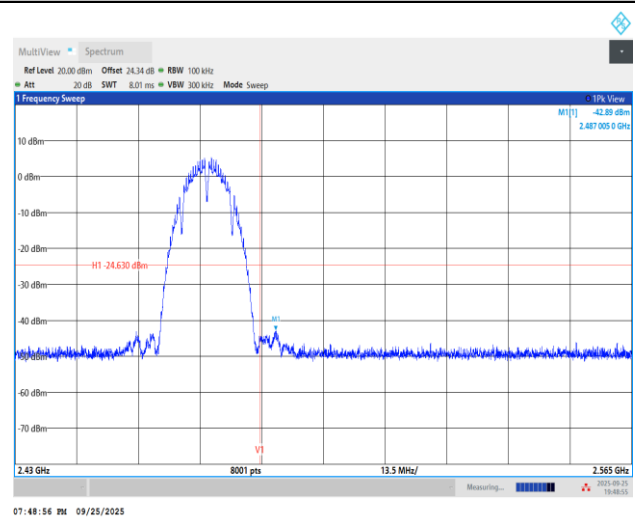
Test Mode : 802.11b

Test Channel : 13

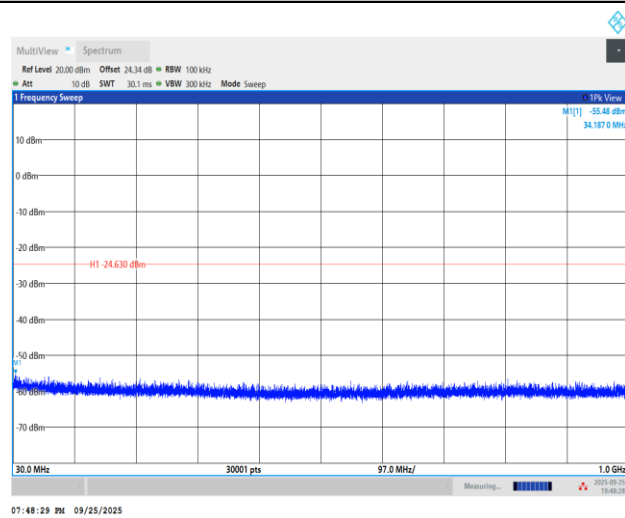
100kHz PSD reference Level



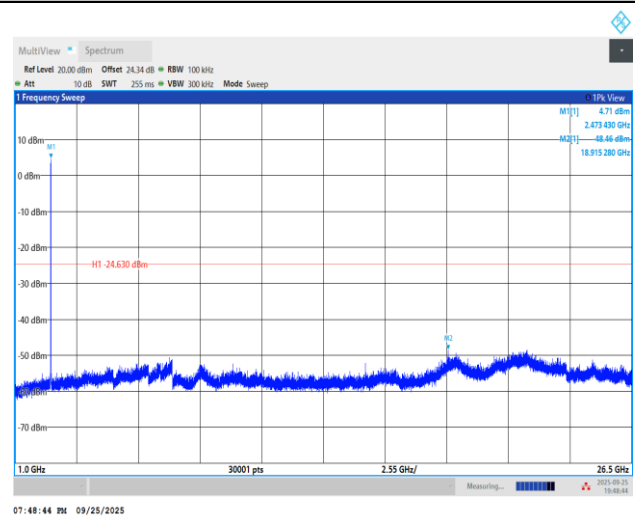
Channel 13 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

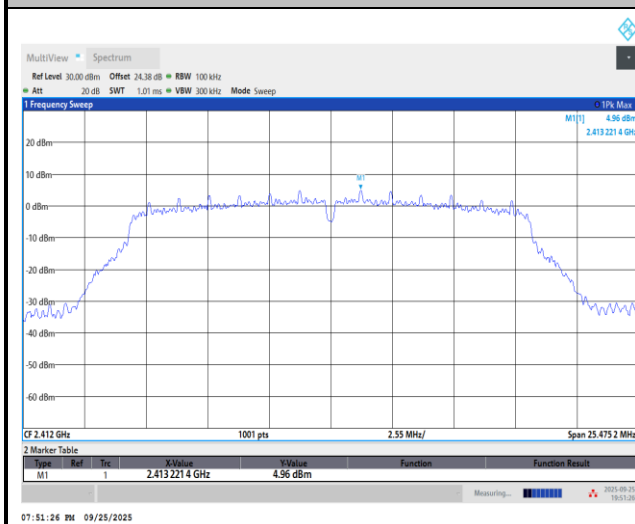




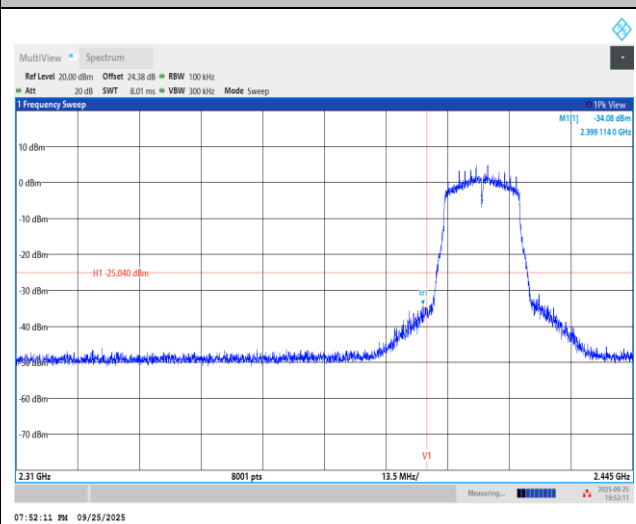
Test Mode : 802.11g

Test Channel : 01

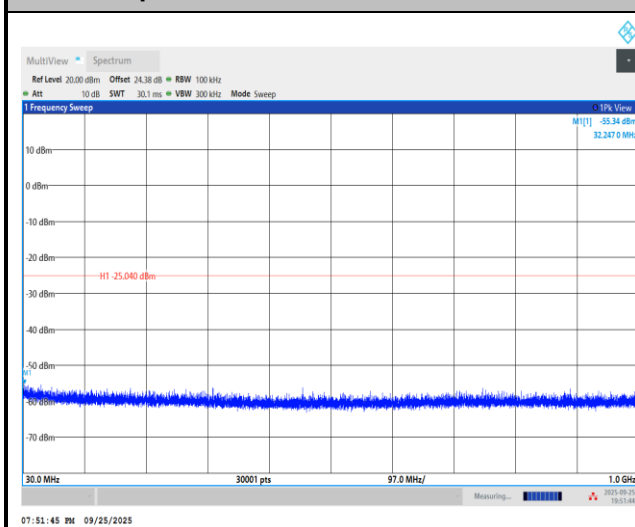
100kHz PSD reference Level



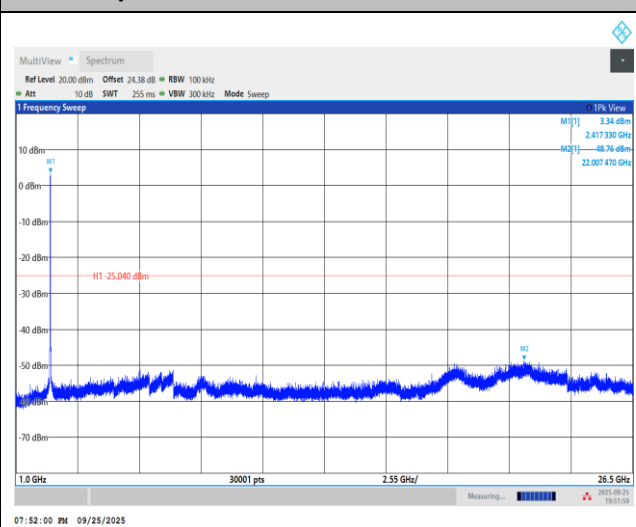
Channel 01 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

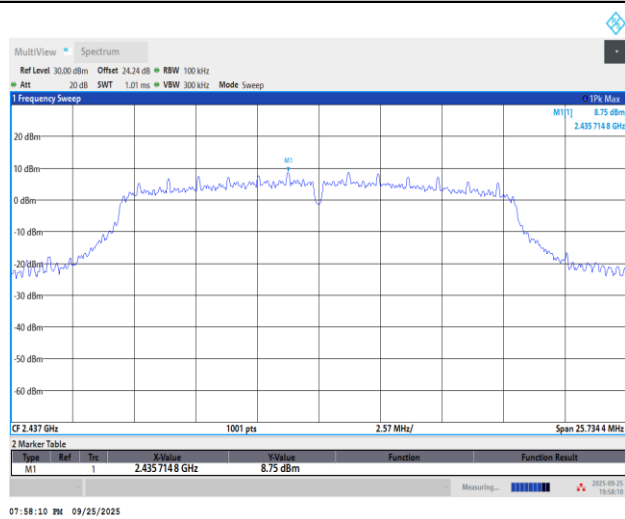




Test Mode : 802.11g

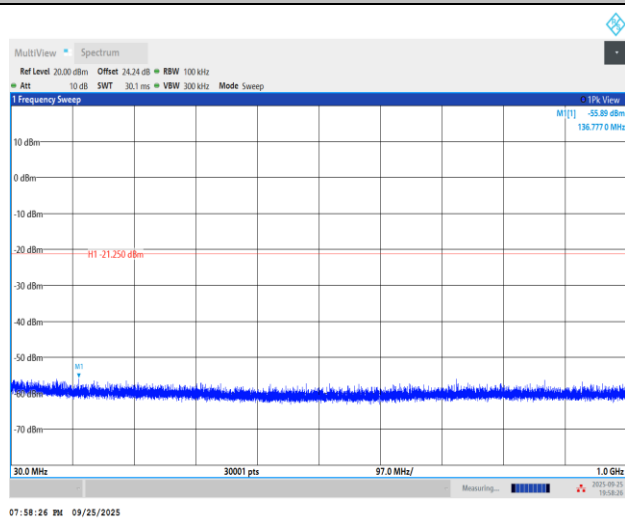
Test Channel : 06

100kHz PSD reference Level

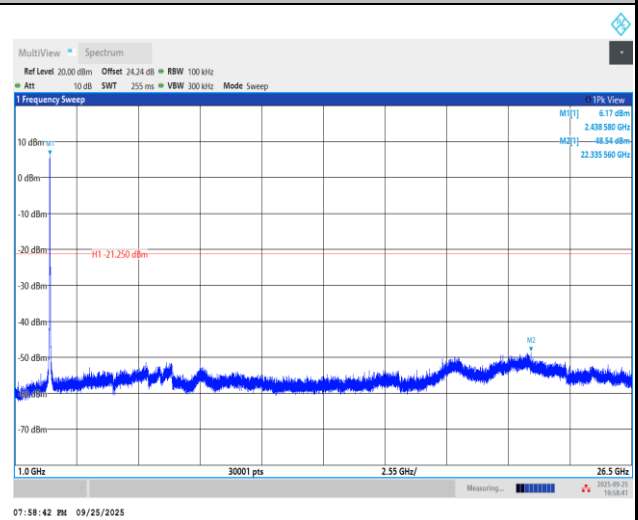


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

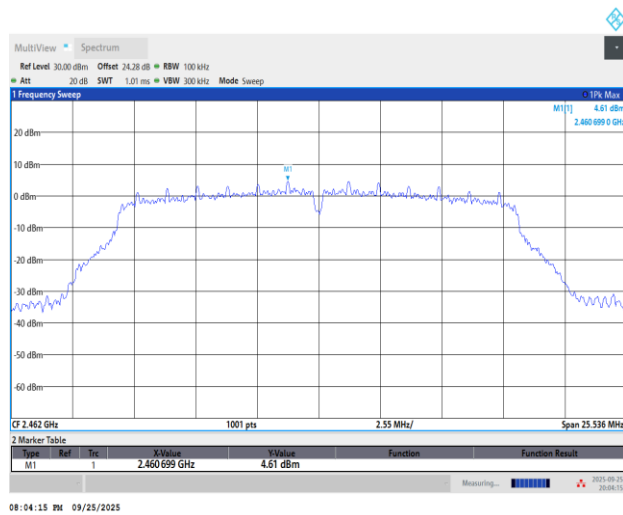




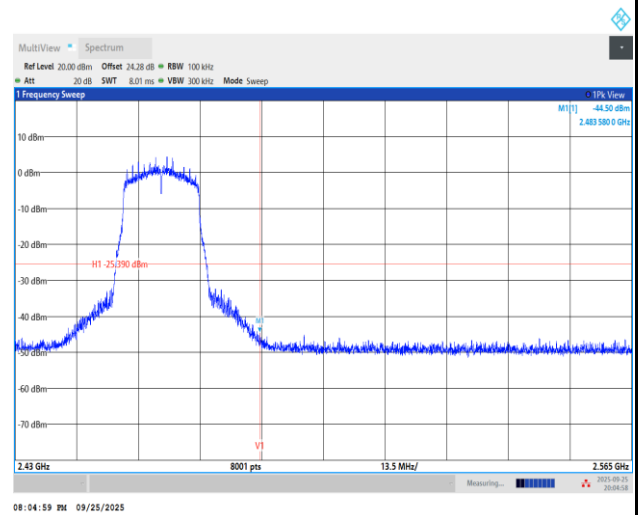
Test Mode : 802.11g

Test Channel : 11

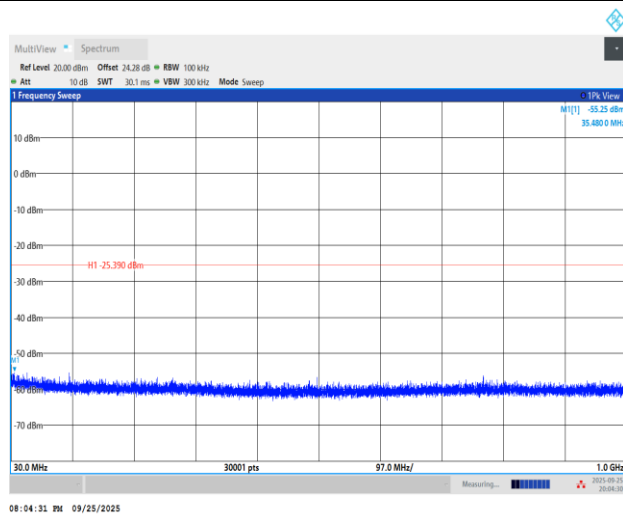
100kHz PSD reference Level



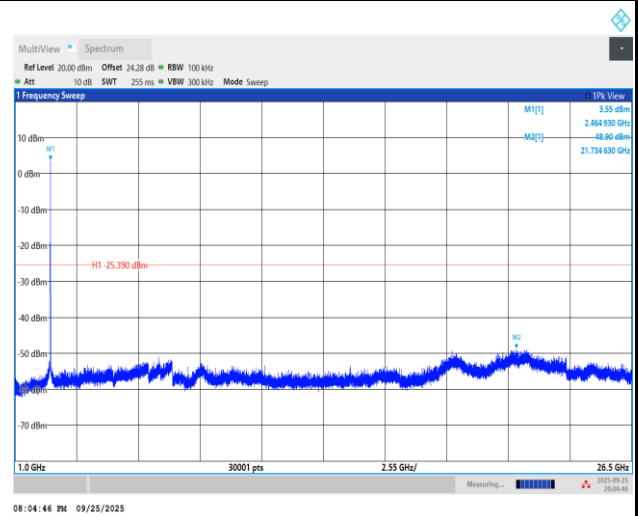
Channel 11 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

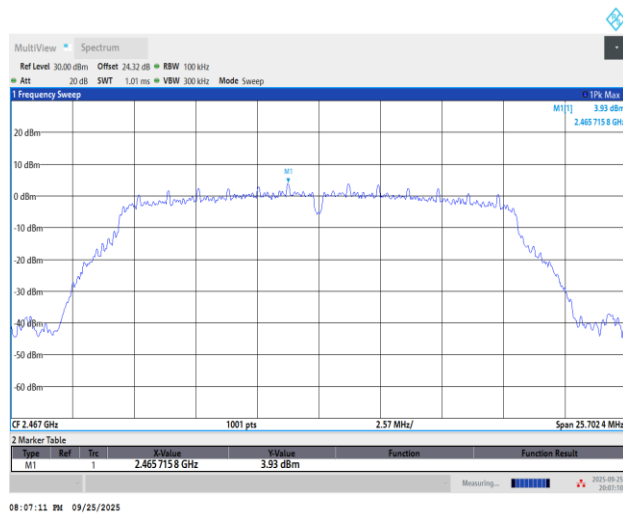




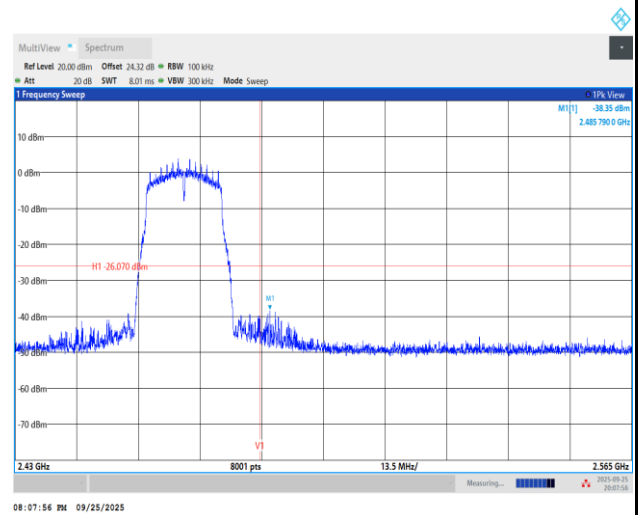
Test Mode : 802.11g

Test Channel : 12

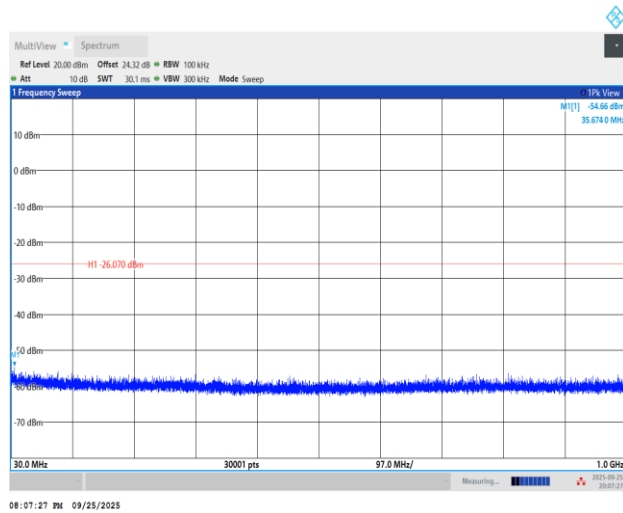
100kHz PSD reference Level



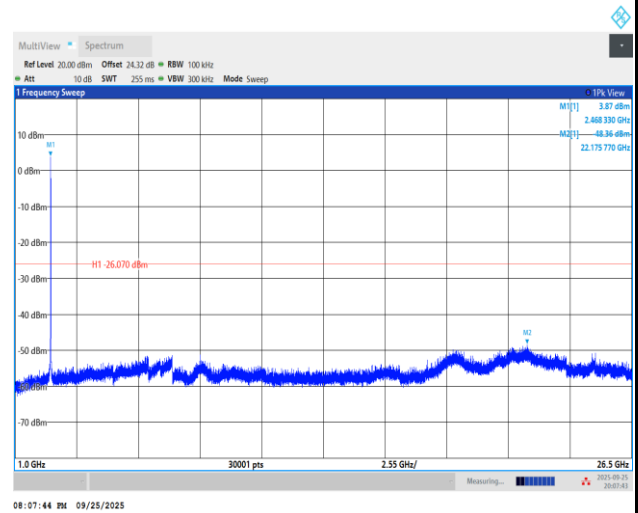
Channel 12 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

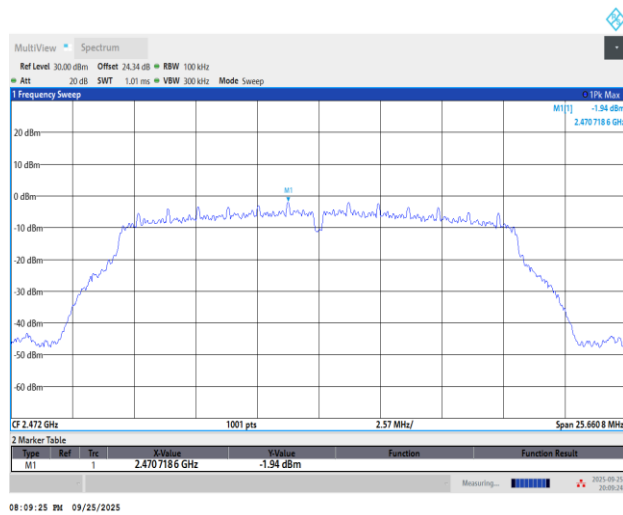




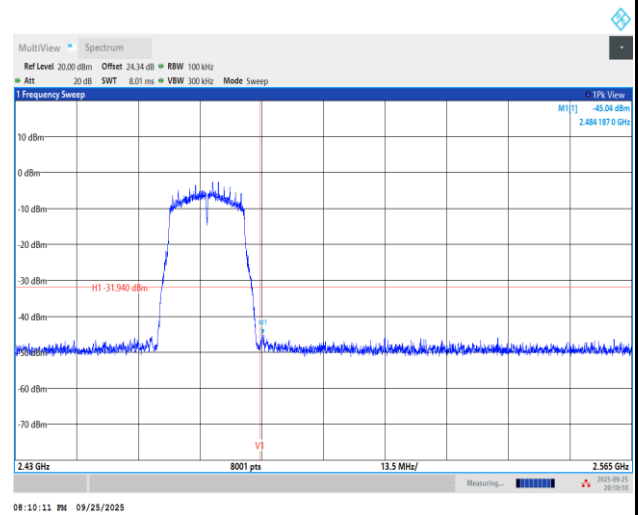
Test Mode : 802.11g

Test Channel : 13

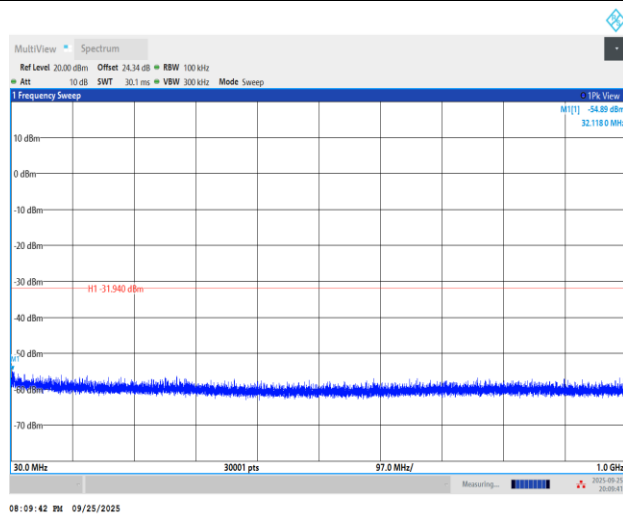
100kHz PSD reference Level



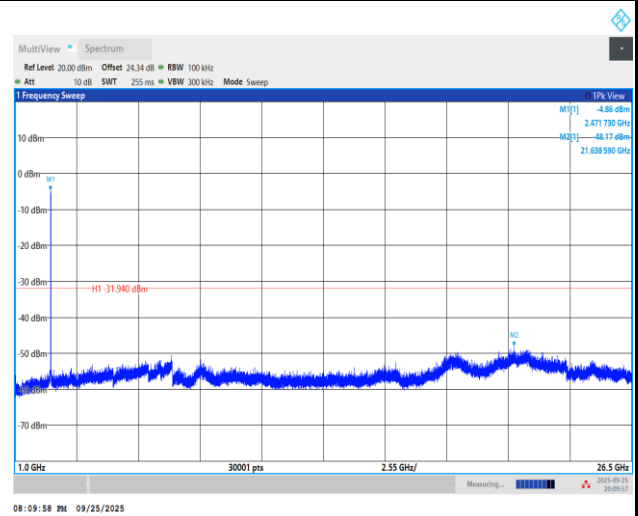
Channel 13 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

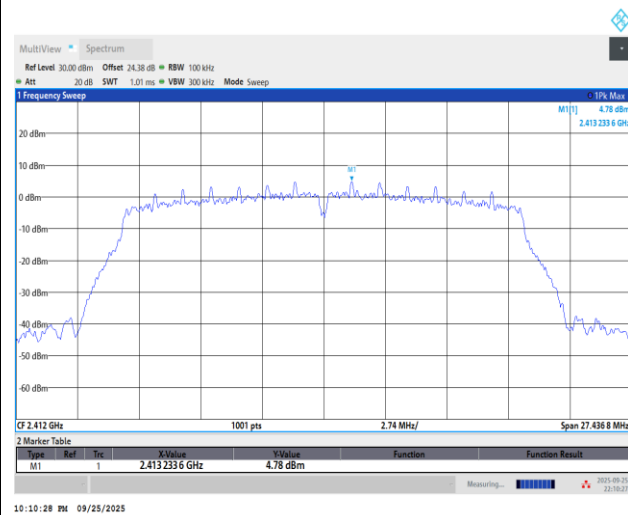




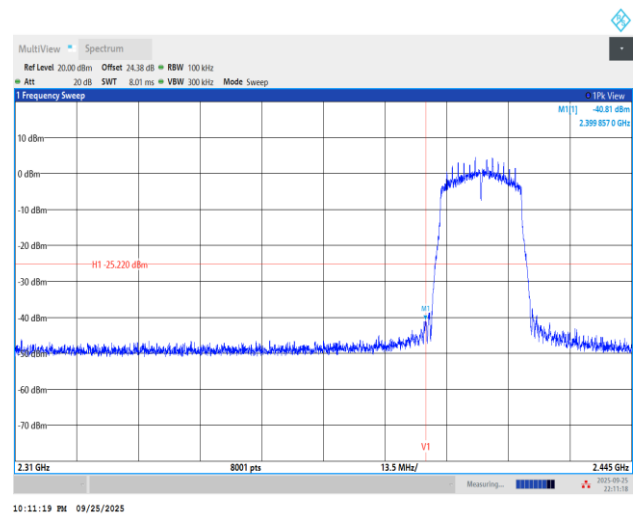
Test Mode : 802.11ac20

Test Channel : 01

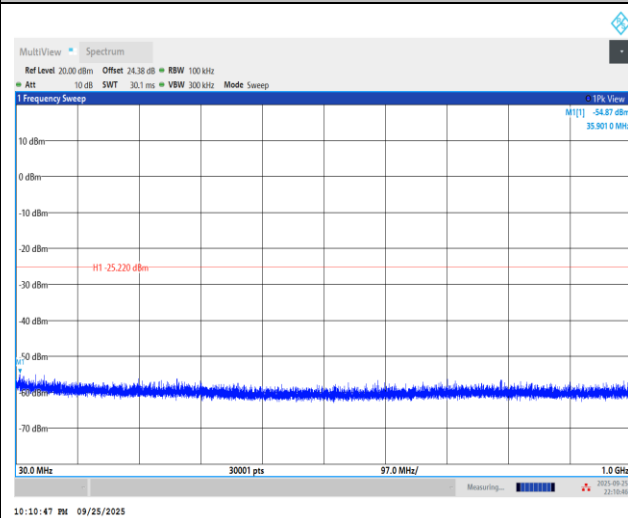
100kHz PSD reference Level



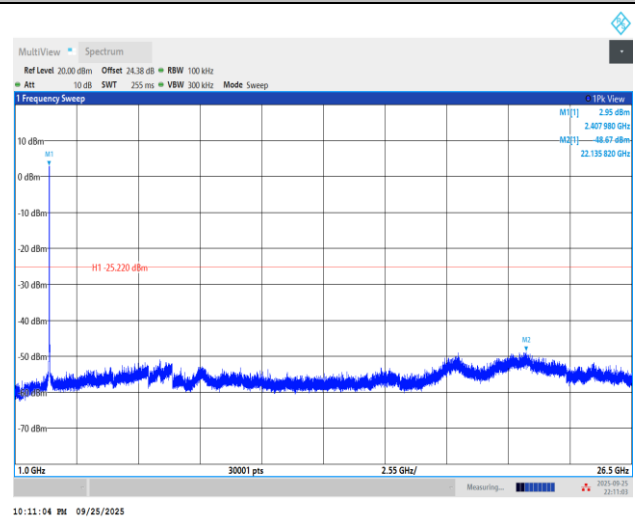
Channel 01 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

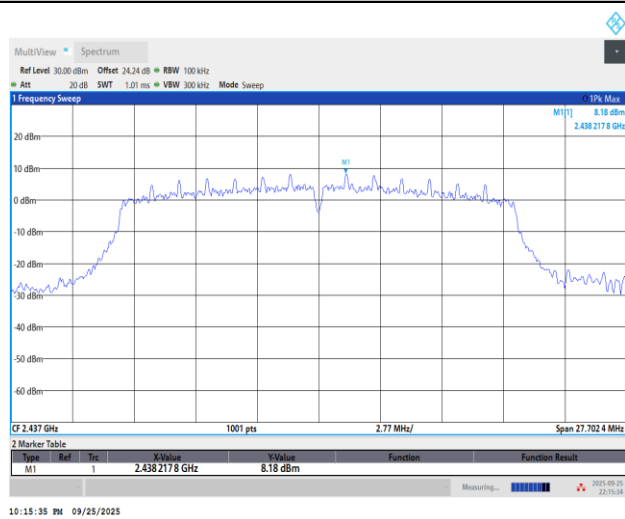




Test Mode : 802.11ac20

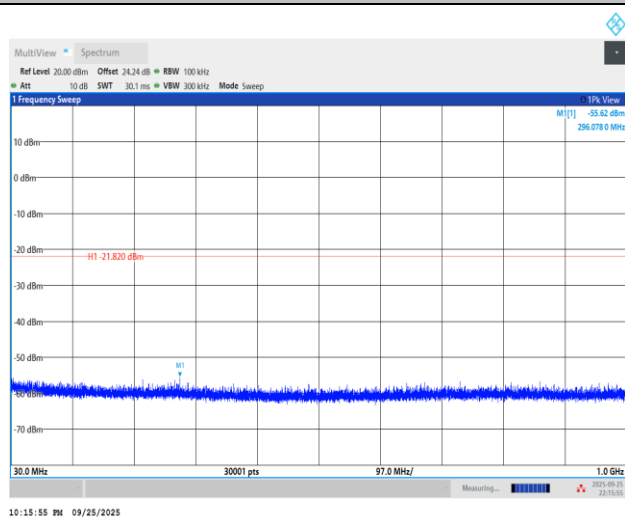
Test Channel : 06

100kHz PSD reference Level

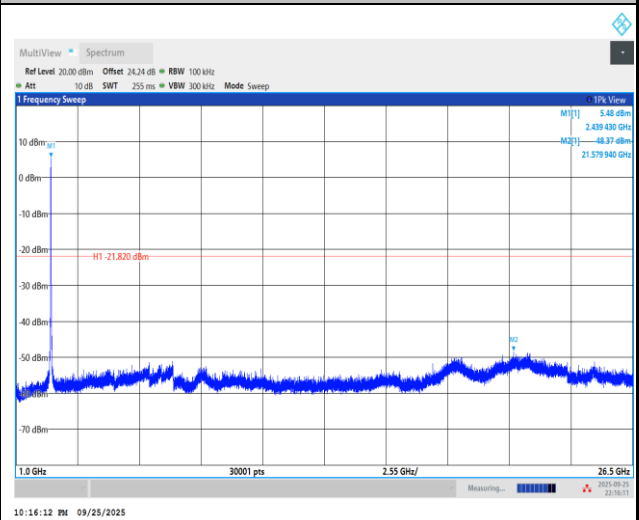


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

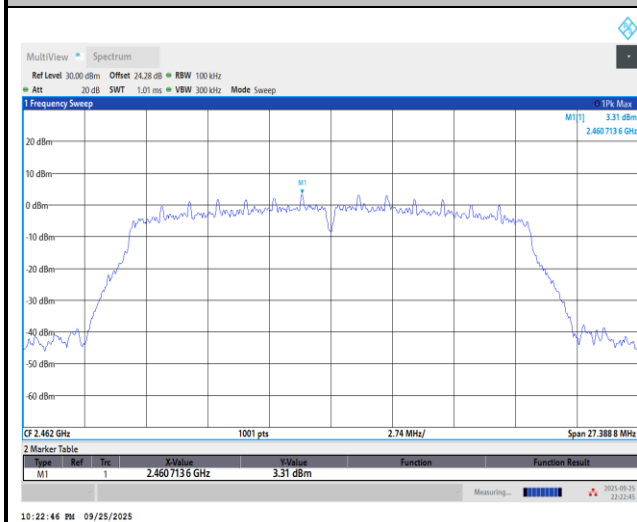




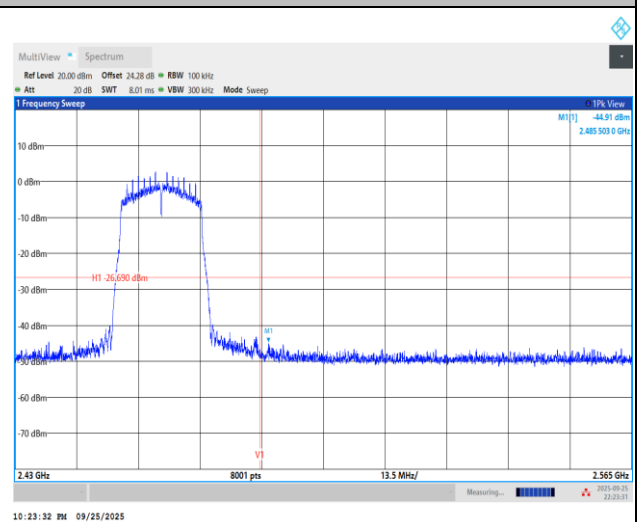
Test Mode : 802.11ac20

Test Channel : 11

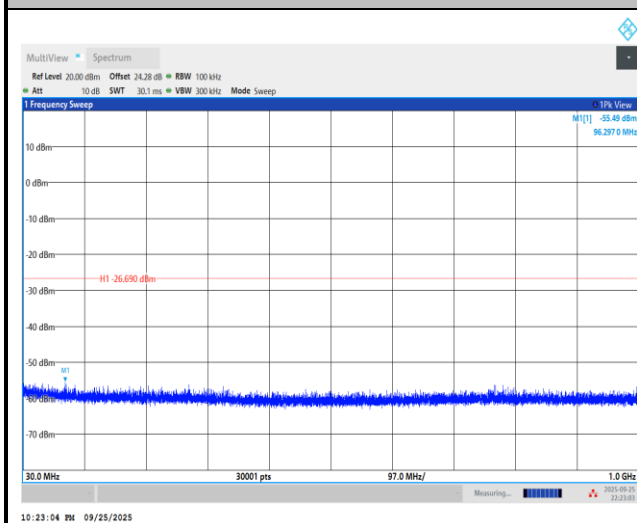
100kHz PSD reference Level



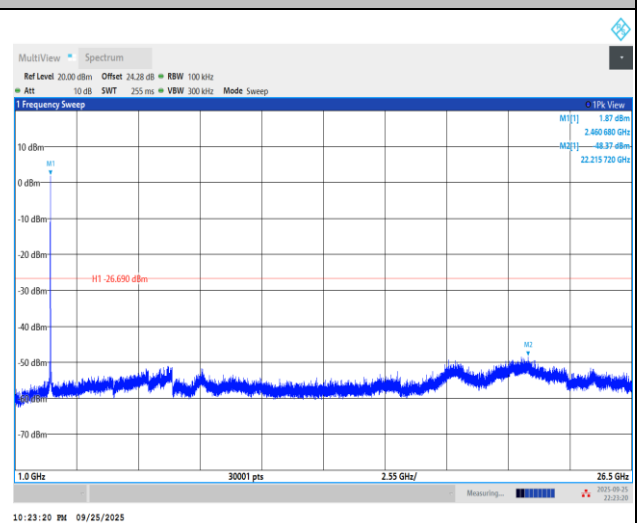
Channel 11 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

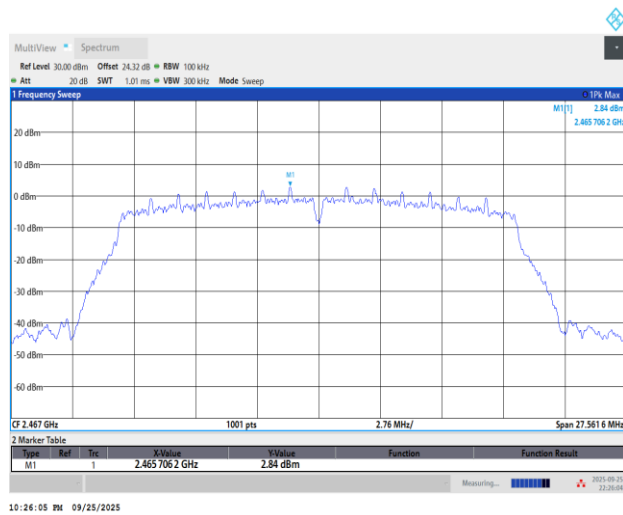




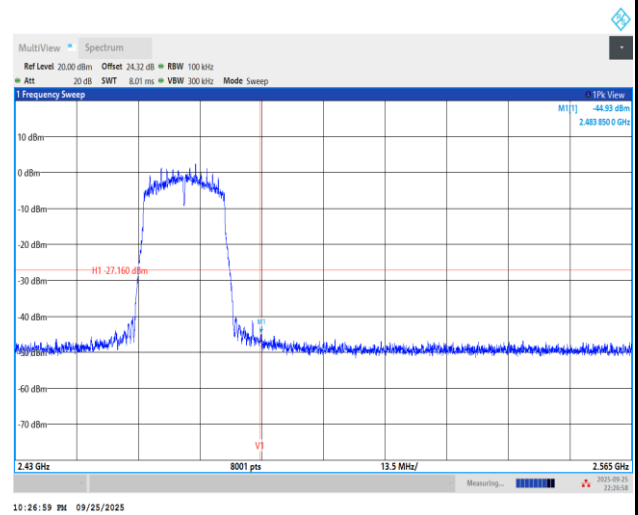
Test Mode : 802.11ac20

Test Channel : 12

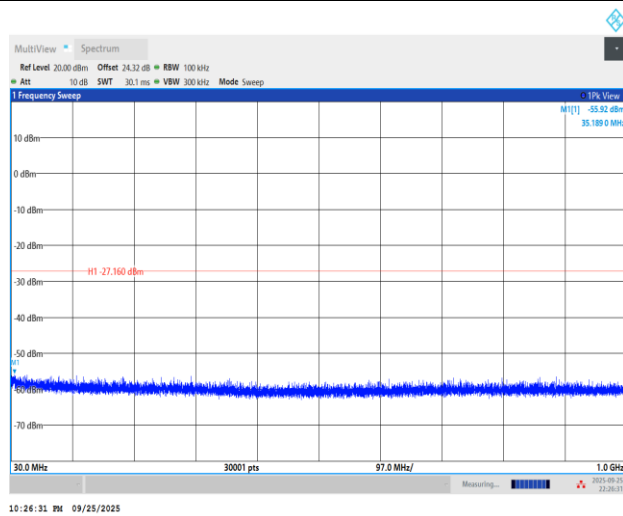
100kHz PSD reference Level



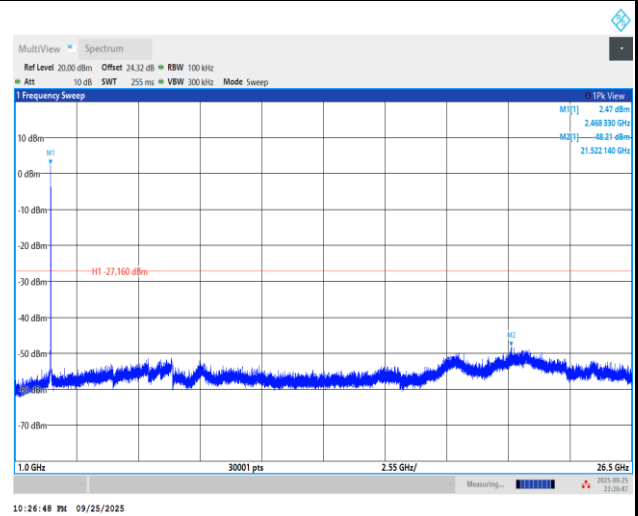
Channel 12 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

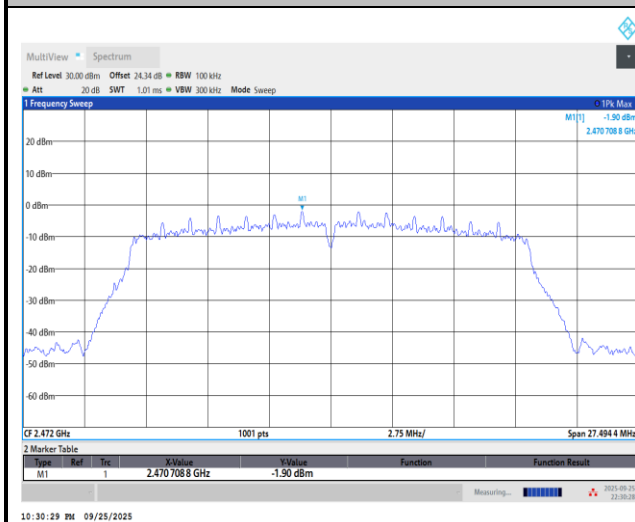




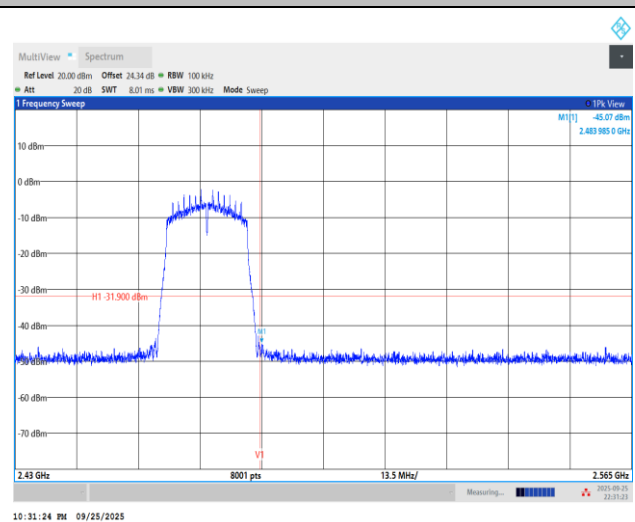
Test Mode : 802.11ac20

Test Channel : 13

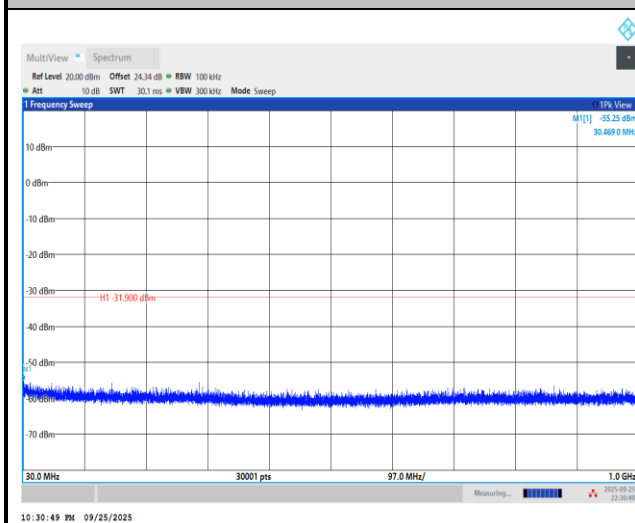
100kHz PSD reference Level



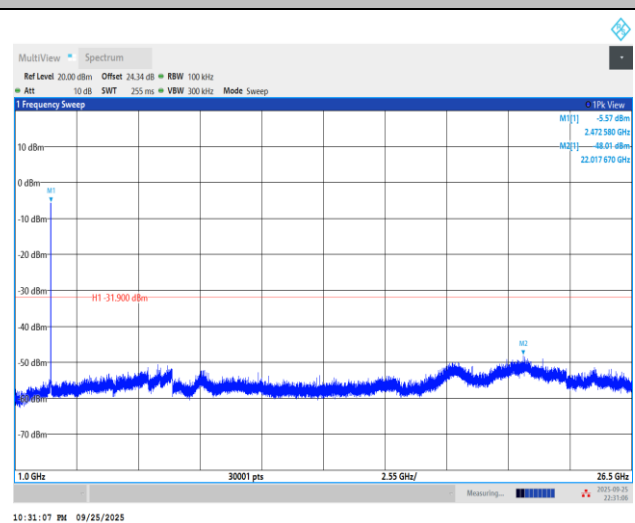
Channel 13 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

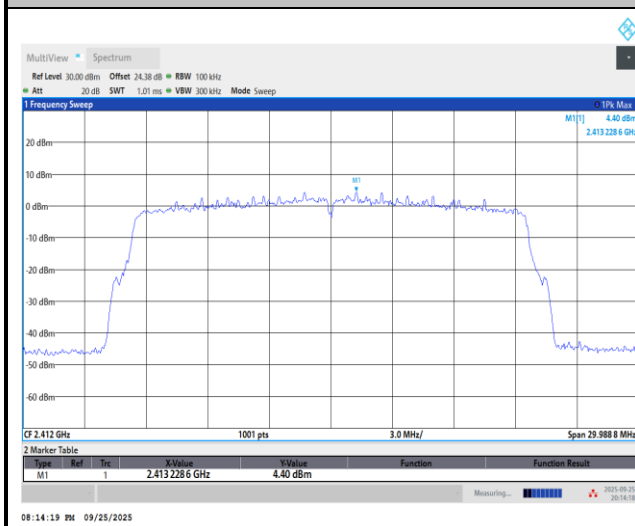




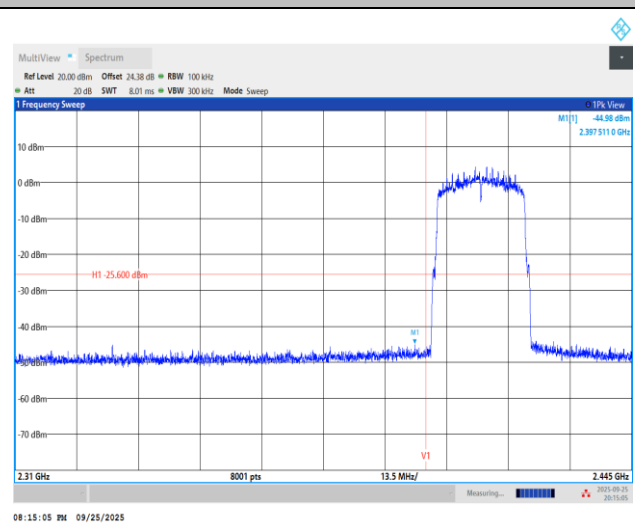
Test Mode : 802.11ax20_FullIRU

Test Channel : 01

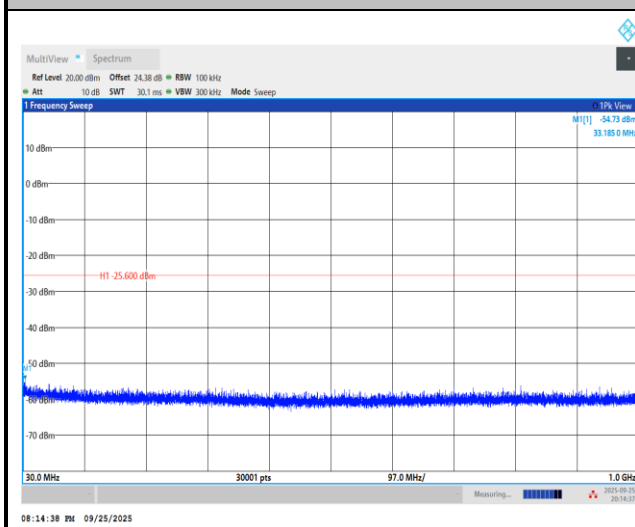
100kHz PSD reference Level



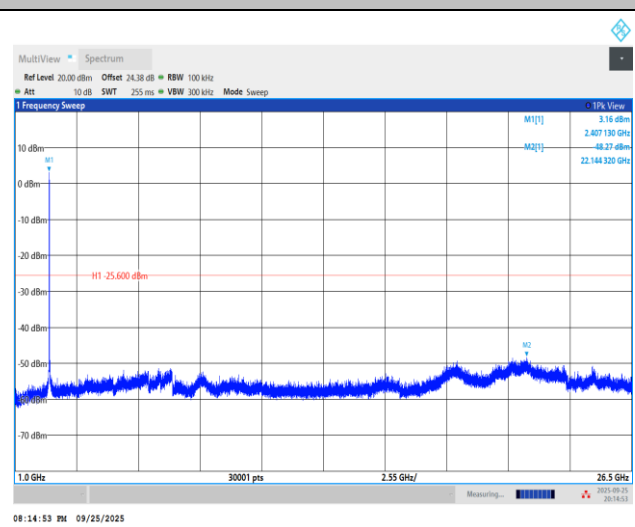
Channel 01 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

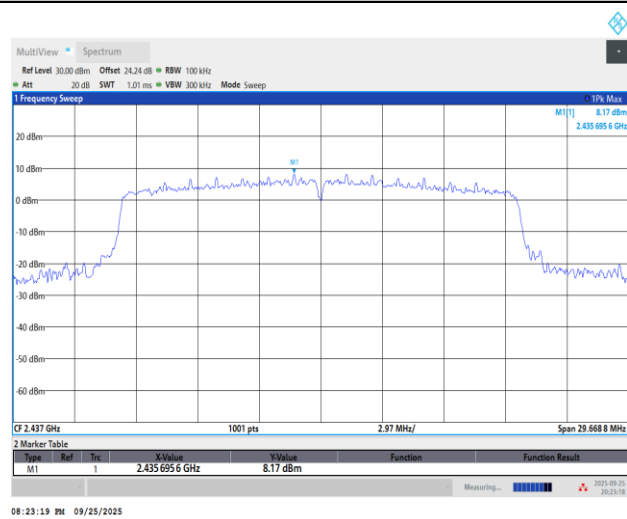




Test Mode : 802.11ax20_FullIRU

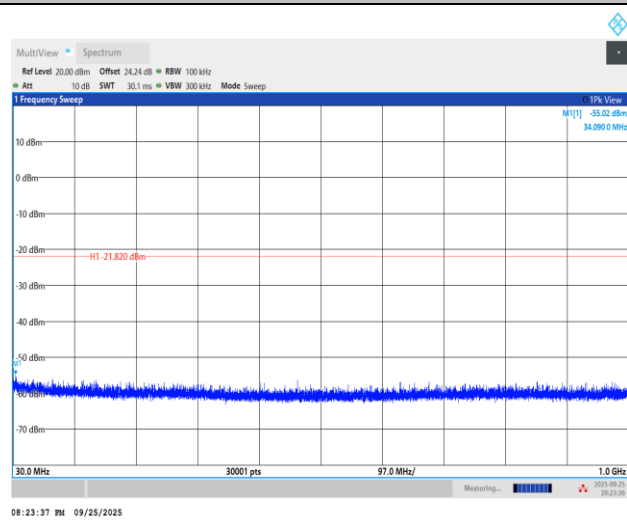
Test Channel : 06

100kHz PSD reference Level

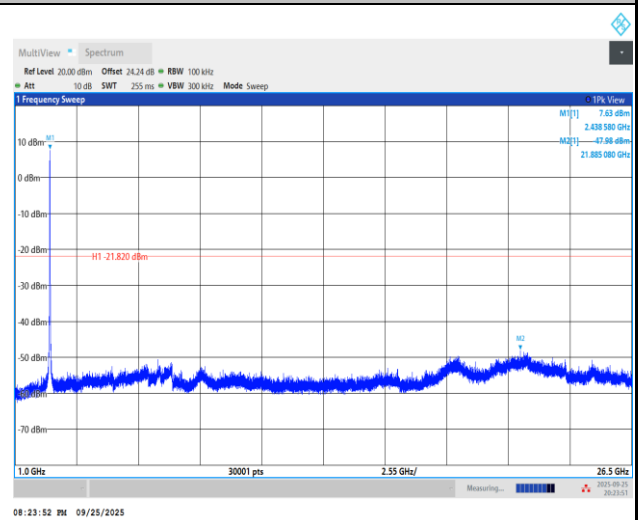


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

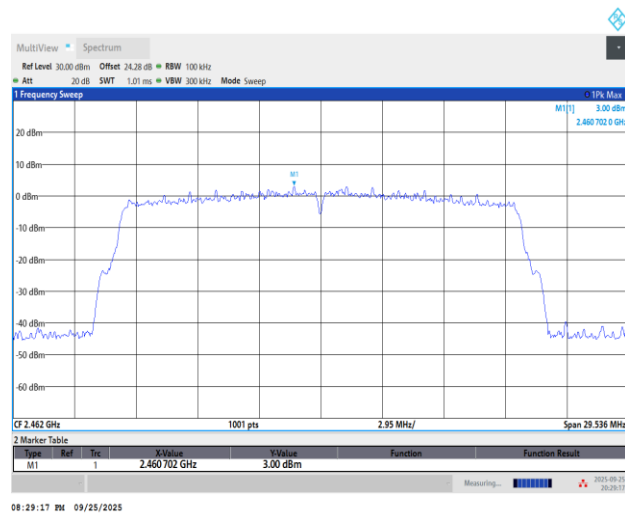




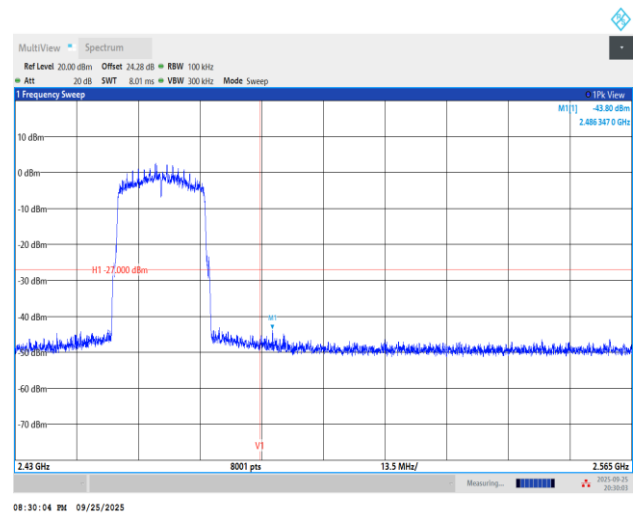
Test Mode : 802.11ax20_FullIRU

Test Channel : 11

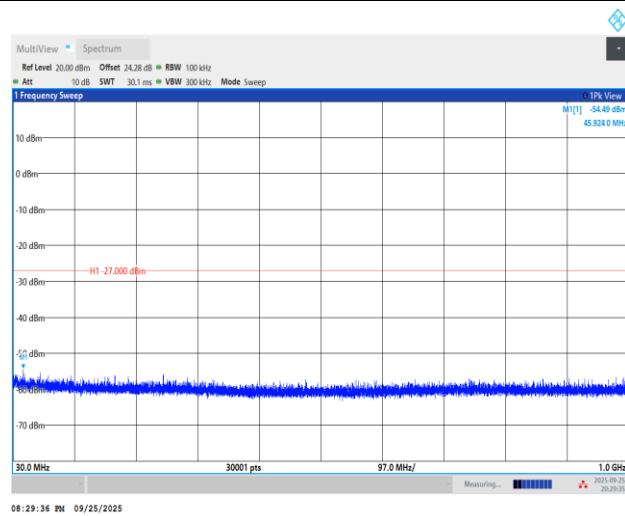
100kHz PSD reference Level



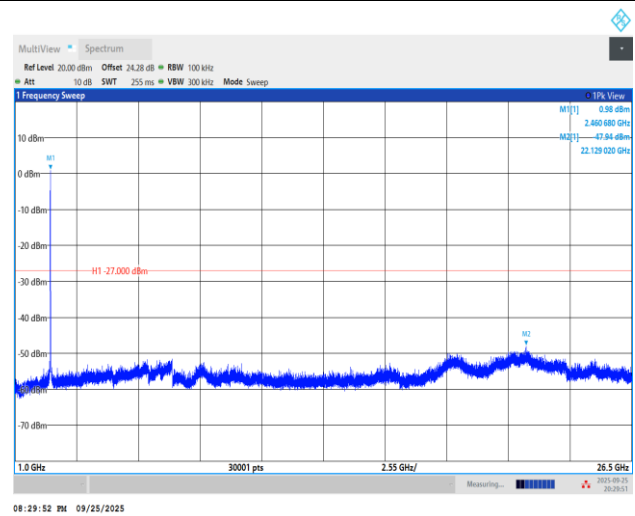
Channel 11 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

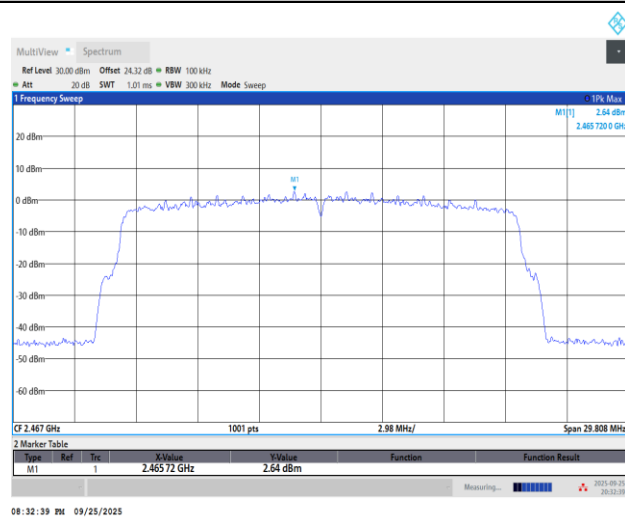




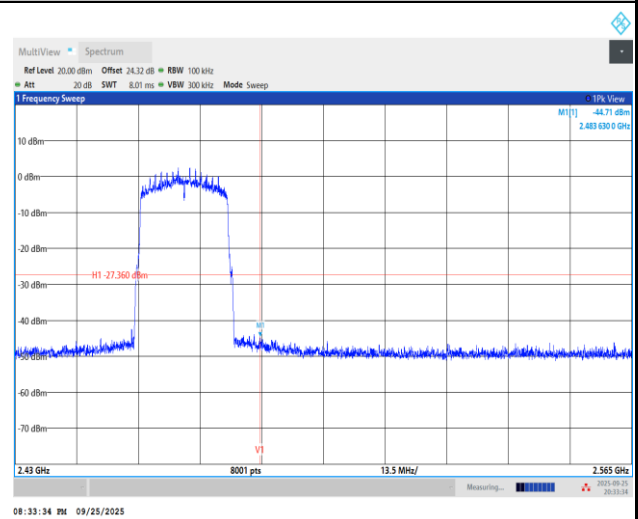
Test Mode : 802.11ax20_FullIRU

Test Channel : 12

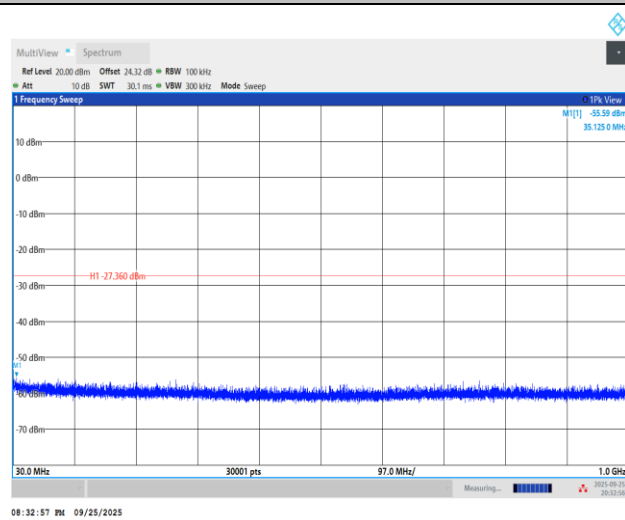
100kHz PSD reference Level



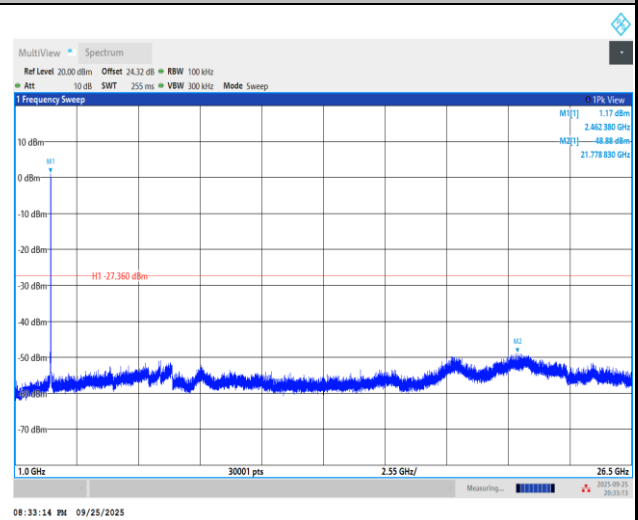
Channel 12 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

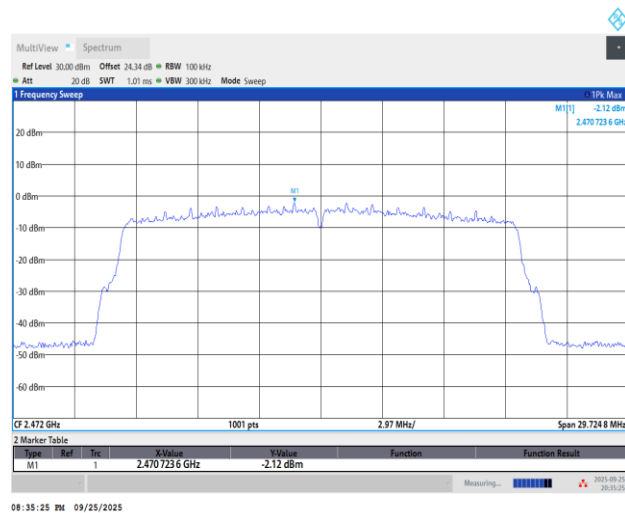




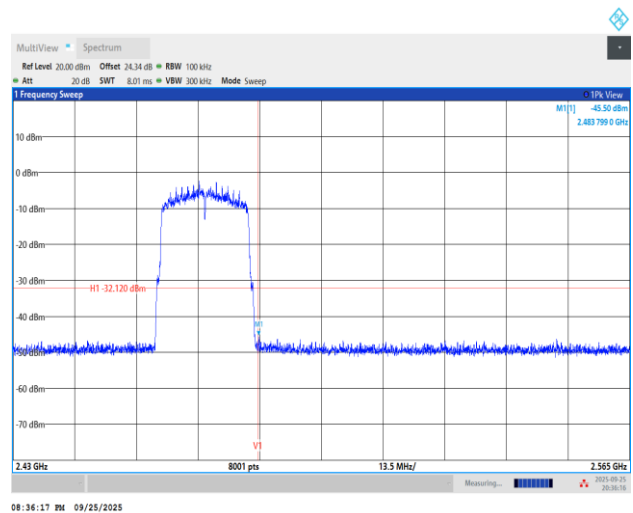
Test Mode : 802.11ax20_FullIRU

Test Channel : 13

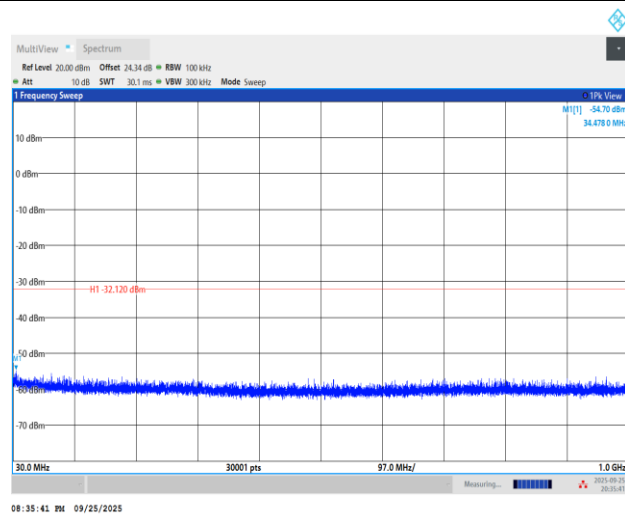
100kHz PSD reference Level



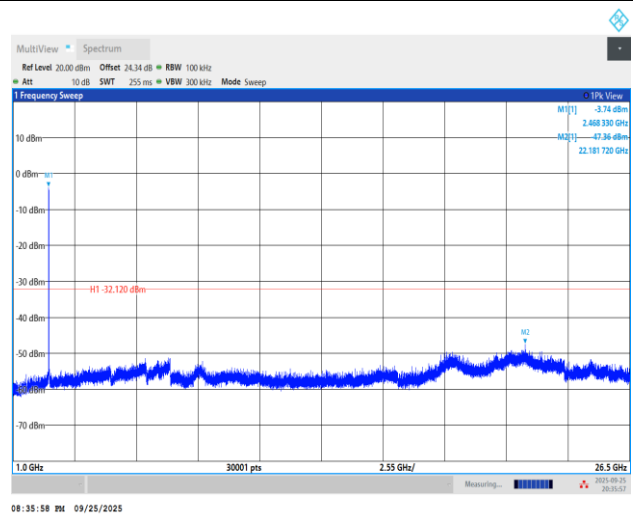
Channel 13 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz





Appendix B. AC Conducted Emission Test Results

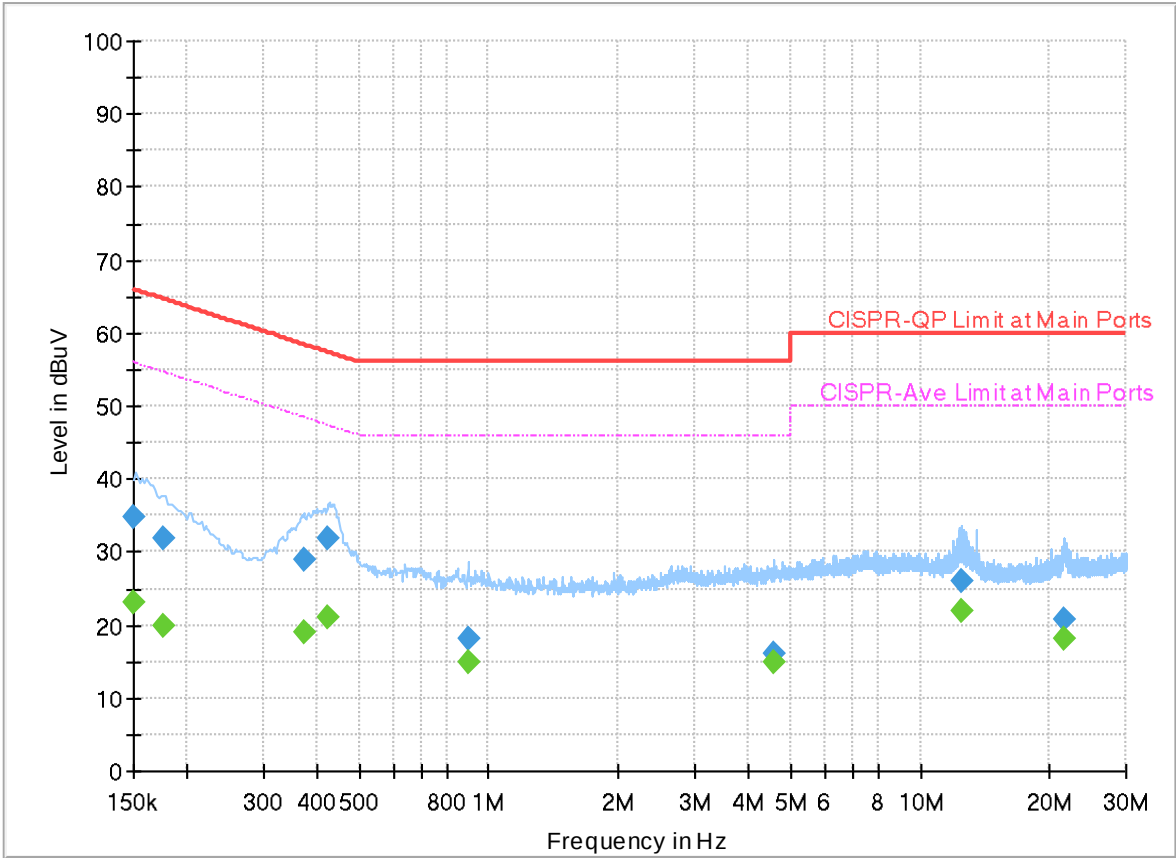
Test Engineer :	Louis Chung	Temperature :	23.5~26.6℃
		Relative Humidity :	45.5~57%

EUT Information

Report NO :
Test Mode :
Test Voltage :
Phase :

572903
Mode 2
120Vac/60Hz
Line

Full Spectrum



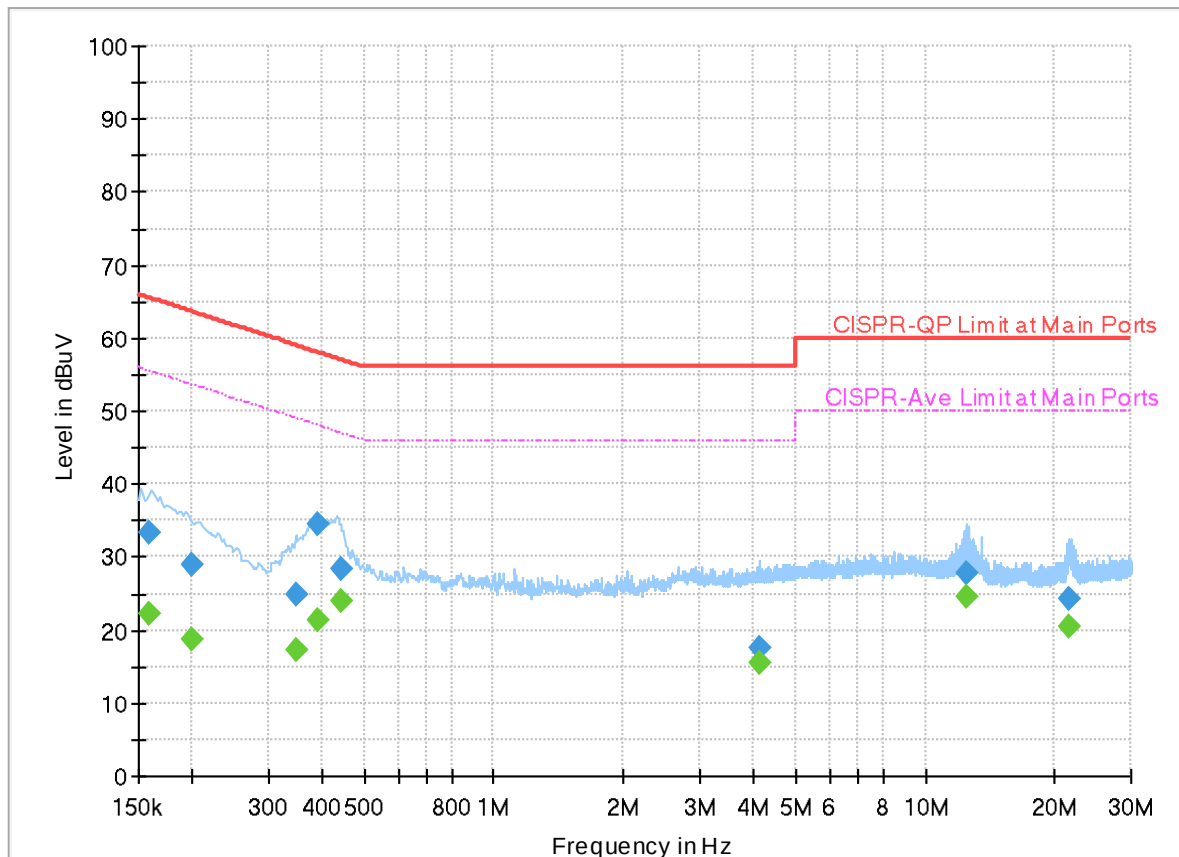
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.150000	---	23.11	56.00	32.89	L1	FLO	20.0
0.150000	34.88	---	66.00	31.12	L1	FLO	20.0
0.176550	---	19.74	54.65	34.91	L1	FLO	20.0
0.176550	31.92	---	64.65	32.73	L1	FLO	20.0
0.373740	---	18.91	48.42	29.51	L1	FLO	20.0
0.373740	28.82	---	58.42	29.60	L1	FLO	20.0
0.425220	---	21.04	47.35	26.31	L1	FLO	20.0
0.425220	31.80	---	57.35	25.55	L1	FLO	20.0
0.899250	---	14.95	46.00	31.05	L1	FLO	20.0
0.899250	18.07	---	56.00	37.93	L1	FLO	20.0
4.581960	---	15.01	46.00	30.99	L1	FLO	20.2
4.581960	16.12	---	56.00	39.88	L1	FLO	20.2
12.487290	---	21.92	50.00	28.08	L1	FLO	20.5
12.487290	26.11	---	60.00	33.89	L1	FLO	20.5
21.639750	---	18.19	50.00	31.81	L1	FLO	20.9
21.639750	20.80	---	60.00	39.20	L1	FLO	20.9

EUT Information

Report NO : 572903
Test Mode : Mode 2
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.158550	---	22.32	55.54	33.22	N	FLO	20.0
0.158550	33.33	---	65.54	32.21	N	FLO	20.0
0.199050	---	18.62	53.65	35.03	N	FLO	20.0
0.199050	28.97	---	63.65	34.68	N	FLO	20.0
0.346920	---	17.11	49.04	31.93	N	FLO	20.0
0.346920	24.82	---	59.04	34.22	N	FLO	20.0
0.389310	---	21.26	48.08	26.82	N	FLO	20.0
0.389310	34.63	---	58.08	23.45	N	FLO	20.0
0.442050	---	23.97	47.02	23.05	N	FLO	20.0
0.442050	28.28	---	57.02	28.74	N	FLO	20.0
4.128000	---	15.53	46.00	30.47	N	FLO	20.1
4.128000	17.61	---	56.00	38.39	N	FLO	20.1
12.491250	---	24.43	50.00	25.57	N	FLO	20.5
12.491250	27.85	---	60.00	32.15	N	FLO	20.5
21.630750	---	20.41	50.00	29.59	N	FLO	20.9
21.630750	24.16	---	60.00	35.84	N	FLO	20.9



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Gerry Wei, Tim Lee and Wilson Wu	Temperature :	21~25.3°C
		Relative Humidity :	51~61.8%

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 14	2400-2483.5	1	802.11b	01	2412	1Mbps	-	-
Mode 15	2400-2483.5	1	802.11b	06	2437	1Mbps	-	-
Mode 16	2400-2483.5	1	802.11b	11	2462	1Mbps	-	-
Mode 17	2400-2483.5	1	802.11b	12	2467	1Mbps	-	-
Mode 18	2400-2483.5	1	802.11b	13	2472	1Mbps	-	-
Mode 19	2400-2483.5	1	802.11g	01	2412	6Mbps	-	-
Mode 20	2400-2483.5	1	802.11g	02	2417	6Mbps	-	-
Mode 21	2400-2483.5	1	802.11g	06	2437	6Mbps	-	-
Mode 22	2400-2483.5	1	802.11g	10	2457	6Mbps	-	-
Mode 23	2400-2483.5	1	802.11g	11	2462	6Mbps	-	-
Mode 24	2400-2483.5	1	802.11g	12	2467	6Mbps	-	-
Mode 25	2400-2483.5	1	802.11g	13	2472	6Mbps	-	-



Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 26	2400-2483.5	1	802.11ax HE20	01	2412	MCS0	Full RU	-
Mode 27	2400-2483.5	1	802.11ax HE20	02	2417	MCS0	Full RU	-
Mode 28	2400-2483.5	1	802.11ax HE20	06	2437	MCS0	Full RU	-
Mode 29	2400-2483.5	1	802.11ax HE20	10	2457	MCS0	Full RU	-
Mode 30	2400-2483.5	1	802.11ax HE20	11	2462	MCS0	Full RU	-
Mode 31	2400-2483.5	1	802.11ax HE20	12	2467	MCS0	Full RU	-
Mode 32	2400-2483.5	1	802.11ax HE20	13	2472	MCS0	Full RU	-
Mode 33	2400-2483.5	1	802.11ax HE20	01	2412	MCS0	Partial RU106/53	-
Mode 34	2400-2483.5	1	802.11ax HE20	11	2462	MCS0	Partial RU106/54	-
Mode 35	2400-2483.5	1	802.11b	12	2467	1Mbps	-	LF
Mode 36	2400-2483.5	1	802.11ac VHT20	12	2467	MCS0	Full RU	-



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
14	802.11b	01	2385.53	48.04	54.00	-5.96	V	Avg.	Pass	-	Band Edge
	802.11b	01	4824.00	40.50	74.00	-33.50	H	Peak	Pass	-	Harmonic
15	802.11b	06	2483.62	44.55	54.00	-9.45	V	Avg.	Pass	-	Band Edge
	802.11b	06	7311.00	45.26	74.00	-28.74	H	Peak	Pass	-	Harmonic
16	802.11b	11	2487.80	47.49	54.00	-6.51	V	Avg.	Pass	-	Band Edge
	802.11b	11	7386.00	45.98	74.00	-28.02	H	Peak	Pass	-	Harmonic
17	802.11b	12	2483.53	51.00	54.00	-3.00	V	Avg.	Pass	-	Band Edge
	802.11b	12	7401.00	46.37	74.00	-27.63	H	Peak	Pass	-	Harmonic
18	802.11b	13	2485.83	50.95	54.00	-3.05	V	Avg.	Pass	-	Band Edge
	802.11b	13	7416.00	46.46	74.00	-27.54	V	Peak	Pass	-	Harmonic
19	802.11g	01	2389.95	48.47	54.00	-5.53	V	Avg.	Pass	-	Band Edge
	802.11g	01	4824.00	40.83	74.00	-33.17	H	Peak	Pass	-	Harmonic
20	802.11g	02	2389.82	50.52	54.00	-3.48	V	Avg.	Pass	-	Band Edge
	802.11g	02	7251.00	44.93	74.00	-29.07	H	Peak	Pass	-	Harmonic
21	802.11g	06	2483.62	50.53	54.00	-3.47	V	Avg.	Pass	-	Band Edge
	802.11g	06	7311.00	45.37	74.00	-28.63	V	Peak	Pass	-	Harmonic
22	802.11g	10	2483.53	50.76	54.00	-3.24	V	Avg.	Pass	-	Band Edge
	802.11g	10	7371.00	45.94	74.00	-28.06	V	Peak	Pass	-	Harmonic
23	802.11g	11	2483.89	49.55	54.00	-4.45	V	Avg.	Pass	-	Band Edge
	802.11g	11	7386.00	46.19	74.00	-27.81	H	Peak	Pass	-	Harmonic
24	802.11g	12	2483.53	50.84	54.00	-3.16	V	Avg.	Pass	-	Band Edge
	802.11g	12	7401.00	46.16	74.00	-27.84	H	Peak	Pass	-	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
25	802.11g	13	2484.26	50.67	54.00	-3.33	V	Avg.	Pass	-	Band Edge
	802.11g	13	7416.00	45.92	74.00	-28.08	H	Peak	Pass	-	Harmonic
26	802.11ax HE20	01	2389.69	48.40	54.00	-5.60	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	01	4824.00	40.82	74.00	-33.18	H	Peak	Pass	Full RU	Harmonic
27	802.11ax HE20	02	2389.95	50.62	54.00	-3.38	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	02	7251.00	44.20	74.00	-29.80	V	Peak	Pass	Full RU	Harmonic
28	802.11ax HE20	06	2484.00	50.42	54.00	-3.58	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	06	7311.00	45.50	74.00	-28.50	H	Peak	Pass	Full RU	Harmonic
29	802.11ax HE20	10	2483.66	50.89	54.00	-3.11	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	10	7371.00	45.95	74.00	-28.05	V	Peak	Pass	Full RU	Harmonic
30	802.11ax HE20	11	2483.55	49.54	54.00	-4.46	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	11	7386.00	45.77	74.00	-28.23	V	Peak	Pass	Full RU	Harmonic
31	802.11ax HE20	12	2483.57	50.94	54.00	-3.06	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	12	7401.00	45.93	74.00	-28.07	H	Peak	Pass	Full RU	Harmonic
32	802.11ax HE20	13	2483.51	50.75	54.00	-3.25	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	13	7416.00	45.85	74.00	-28.15	V	Peak	Pass	Full RU	Harmonic

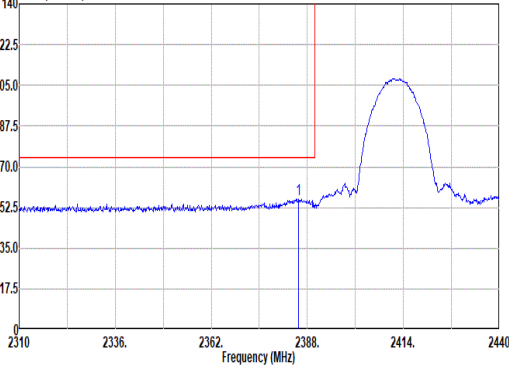
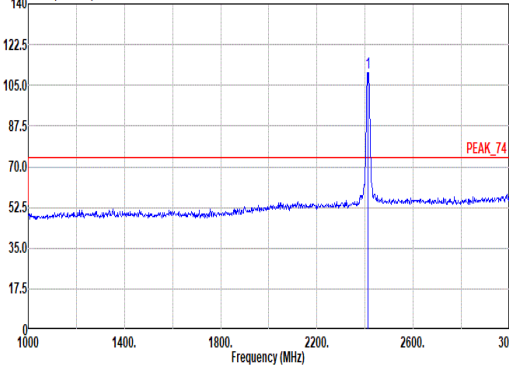
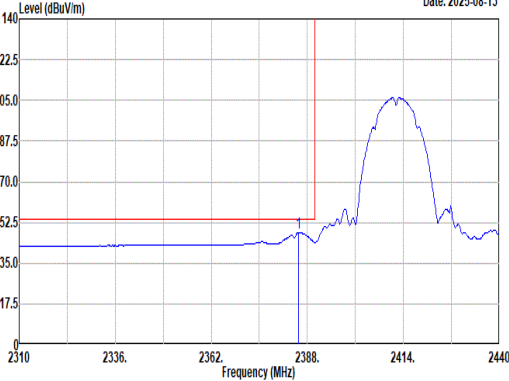
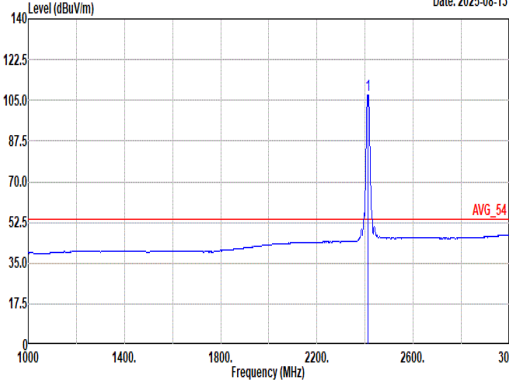


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
33	802.11ax HE20	01	2389.95	50.21	54.00	-3.79	V	Avg.	Pass	Partial RU106/53	Band Edge
	802.11ax HE20	01	-	-	-	-	-	-	-	Partial RU106/53	Harmonic
34	802.11ax HE20	11	2483.81	49.05	54.00	-4.95	V	Avg.	Pass	Partial RU106/54	Band Edge
	802.11ax HE20	11	-	-	-	-	-	-	-	Partial RU106/54	Harmonic
35	LF	12	739.07	39.85	46.00	-6.15	H	Peak	Pass	-	LF
36	802.11ac VHT20	12	2487.30	50.85	54.00	-3.15	V	Avg.	Pass	Full RU	Band Edge
	802.11ac VHT20	12	7401.00	46.39	74.00	-27.61	H	Peak	Pass	Full RU	Harmonic



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Pol.	Horizontal	Fundamental																																																																																
Peak	Level (dBuV/m) Date: 2025-08-13 Site : 03CH12-HY Condition: PEAK_BE_74 3m 91200-02114-250702 HORIZONTAL : 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 Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><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 2387.22</td><td>55.10</td><td>74.00 -18.90</td><td>45.08</td><td>27.37</td><td>6.76</td><td>34.14</td><td>10.03</td><td>100</td><td>165 PEAK</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1 2387.22	55.10	74.00 -18.90	45.08	27.37	6.76	34.14	10.03	100	165 PEAK	Level (dBuV/m) Date: 2025-08-13 Site : 03CH12-HY Condition: PEAK_74 3m 91200-02114-250702 HORIZONTAL : 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 Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><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 2412.00</td><td>99.31</td><td>-----</td><td>89.22</td><td>27.42</td><td>6.80</td><td>34.16</td><td>10.03</td><td>100</td><td>165 PEAK</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1 2412.00	99.31	-----	89.22	27.42	6.80	34.16	10.03	100	165 PEAK
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1 2412.00	99.31	-----	89.22	27.42	6.80	34.16	10.03	100	165 PEAK																																																																									
Avg	Level (dBuV/m) Date: 2025-08-13 Site : 03CH12-HY Condition: AVG_BE_54 3m 91200-02114-250702 HORIZONTAL : RBW:1000.000kHz VBW:0.130kHz 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 Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><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 2386.05</td><td>47.38</td><td>54.00 -6.62</td><td>37.37</td><td>27.36</td><td>6.76</td><td>34.14</td><td>10.03</td><td>100</td><td>165 AVERAGE</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1 2386.05	47.38	54.00 -6.62	37.37	27.36	6.76	34.14	10.03	100	165 AVERAGE	Level (dBuV/m) Date: 2025-08-13 Site : 03CH12-HY Condition: AVG_54 3m 91200-02114-250702 HORIZONTAL : RBW:1000.000kHz VBW:0.130kHz 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 Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><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 2412.00</td><td>96.03</td><td>-----</td><td>85.92</td><td>27.44</td><td>6.80</td><td>34.16</td><td>10.03</td><td>100</td><td>165 AVERAGE</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1 2412.00	96.03	-----	85.92	27.44	6.80	34.16	10.03	100	165 AVERAGE
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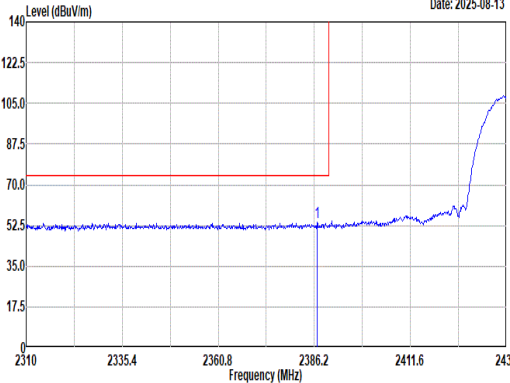
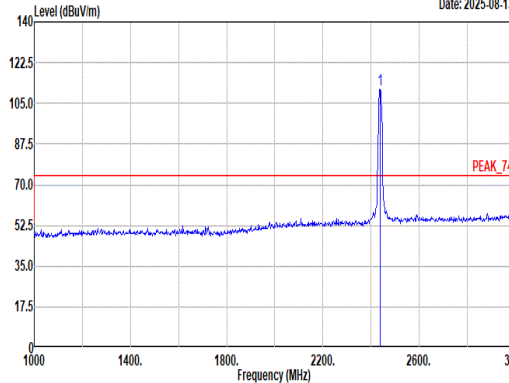
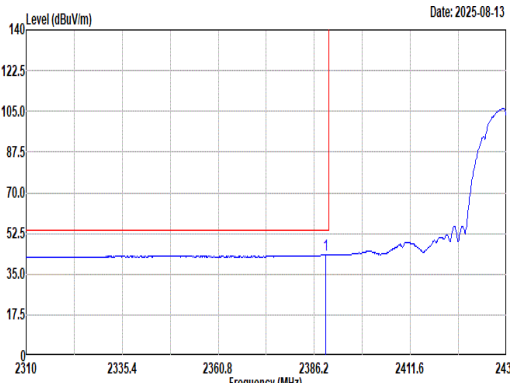
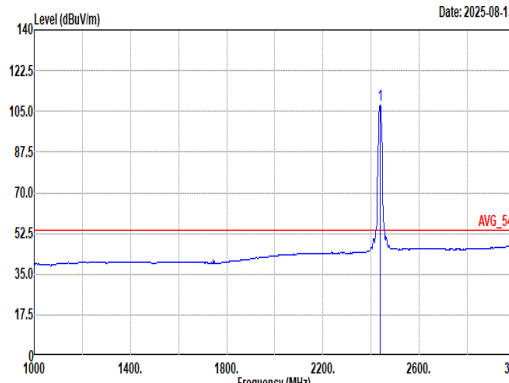


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ANT	1																																												
Pol.	Vertical	Fundamental																																											
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