



FCC RADIO TEST REPORT

FCC ID : Z64-CC33SBMOD
Equipment : 802.11 b/g/n/ax WLAN + BLE Radio Module
Brand Name : Texas Instruments
Model Name : CC33MOD
Applicant : Texas Instruments Incorporated
12500 TI BLVD., Dallas, Texas, 75243
Manufacturer : Texas Instruments Incorporated
12500 TI BLVD., Dallas, Texas, 75243
Standard : FCC Part 15 Subpart C §15.247

The product was received on Aug. 26, 2024 and testing was performed from Dec. 04, 2024 to Mar. 12, 2025. We, Sporton International Inc. EMC & Wireless Communications 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	5
1.4 Applicable Standards.....	6
2 Test Configuration of Equipment Under Test	7
2.1 Carrier Frequency and Channel	7
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	9
2.6 Measurement Results Explanation Example.....	10
3 Test Result	11
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
4 List of Measuring Equipment.....	22
5 Measurement Uncertainty	24
Appendix A. Conducted Test Results	
Appendix B. AC Conducted Emission Test Result	
Appendix C. Radiated Spurious Emission Test Data	
Appendix D. Duty Cycle Plots	
Appendix E. Setup Photographs	



History of this test report

Report No.	Version	Description	Issue Date
FR482308B	01	Initial issue of report	May 23, 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: Danny Lee

Report Producer: Dara Chiu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature			
General Specs Bluetooth-LE and Wi-Fi 2.4GHz 802.11b/g/n/ax.			
Antenna Type WLAN: Chip Antenna Bluetooth-LE: Chip Antenna			
Antenna information			
2400 MHz ~ 2483.5 MHz		Peak Gain (dBi)	1.0
Model Differences			
Model	Test Grade	Wifi 2.4GHz	BT LE
CC33MOD	00	Yes	No
	01	Yes	Yes

Remark:

- The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
- All tests are done by CC33MOD test grade 01.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH02-HY, CO05-HY, 03CH07-HY

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

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FCC designation No.: TW1190



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.
- ♦ 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

This device support 26/52/106-tone RU.

The power for 802.11n mode is smaller than 802.11ax mode, so all other conducted and radiated test is covered by 802.11ax 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 HE20)	MCS0
802.11ax HE20	MCS0

Test Cases	
AC Conducted	Mode 1: Bluetooth-LE Tx + USB Cable (Charging from Notebook)
Emission	Mode 2: WLAN (2.4GHz) Tx + USB Cable (Charging from Notebook)
Remark: The worst case of Conducted Emission is mode 2; only the test data of it was reported.	

Ch. #	2400-2483.5 MHz		
	802.11b	802.11g	802.11ax HE20
Low	01	01	01
Middle	06	06	06
High	11	11	11

Remark: 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.	WLAN AP	ASUS	RT-AC55U	FCC DoC	N/A	Unshielded, 1.8m
2.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0m	N/A
3.	Notebook	Lenovo	TP00116A	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	Dell	E3340	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Development Kit	TI	LP-XDS110ET	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "Radio-Tool v2.3.0-rt" 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.

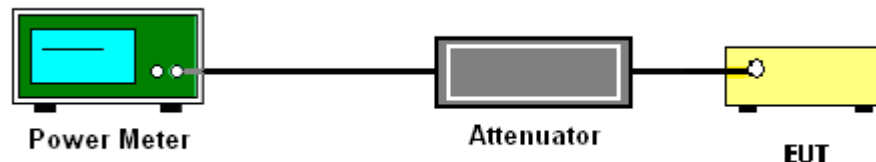
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.3 PKPM1
2. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
3. 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.
4. Set the maximum power setting and enable the EUT to transmit continuously.
5. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

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.

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.

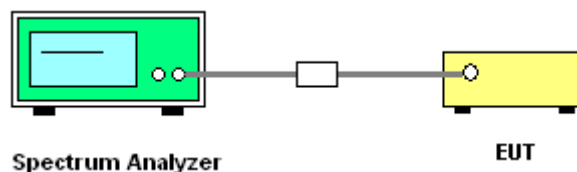
3.4.2 Measuring Instruments

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.

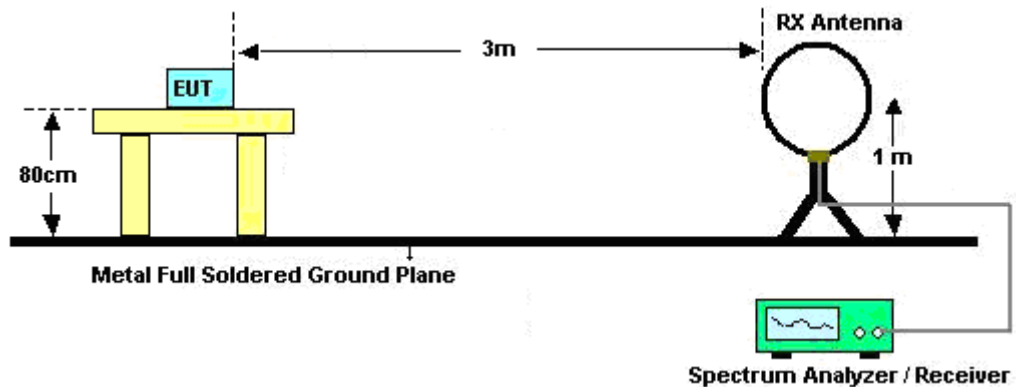


3.5.3 Test Procedures

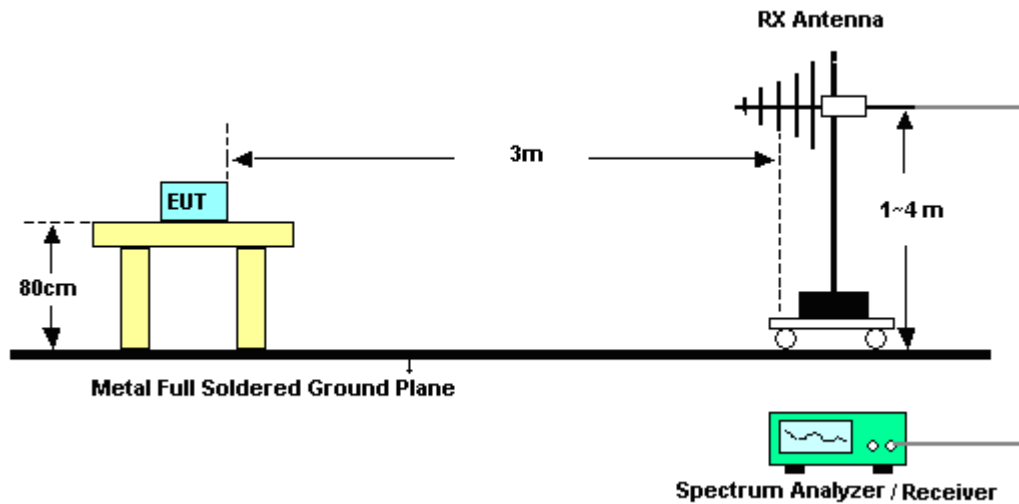
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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

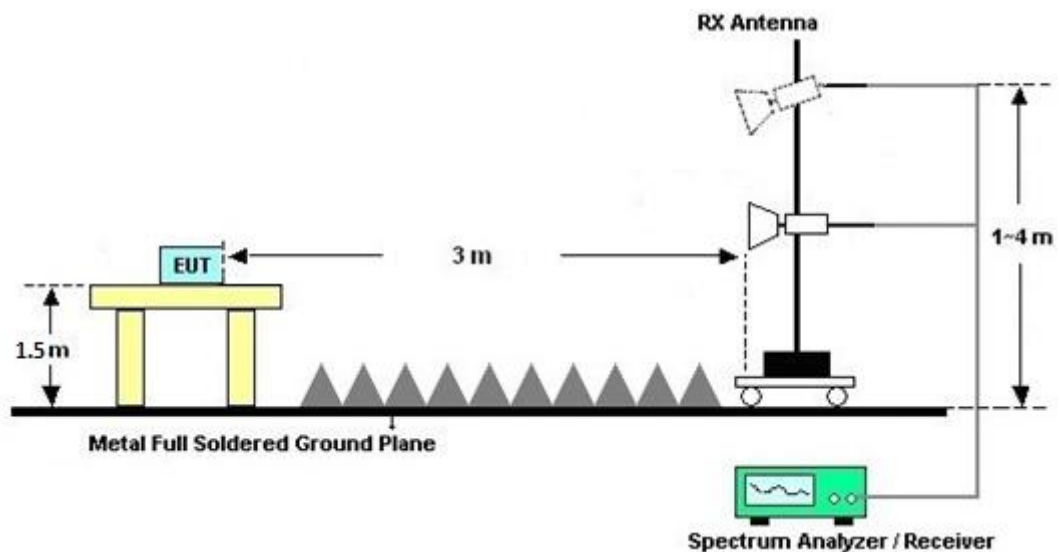
For radiated emissions below 30MHz



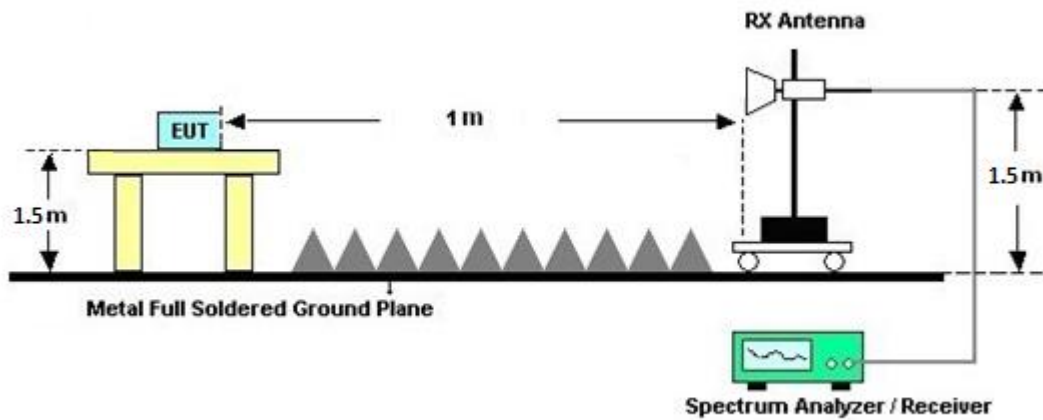
For radiated emissions from 30MHz to 1GHz



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.

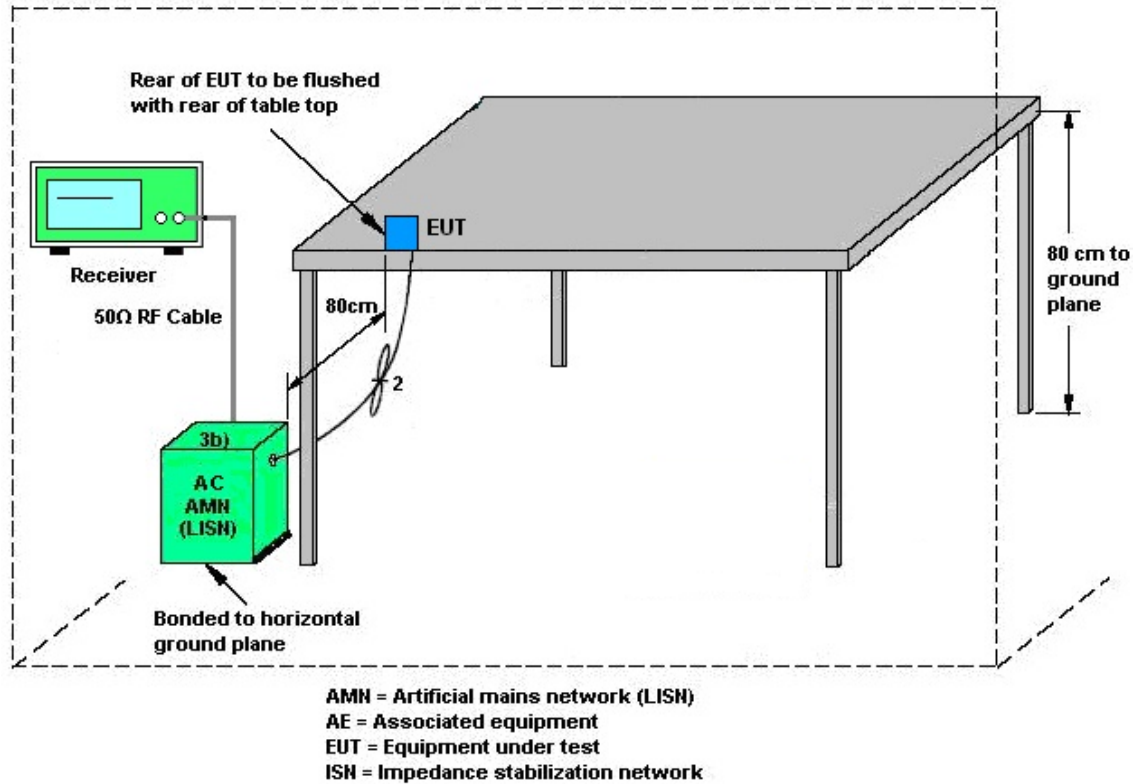
3.6.2 Measuring Instruments

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
Hygrometer	TECEPIL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Feb. 17, 2025~ Mar. 12, 2025	Oct. 30, 2025	Conducted (TH02-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO 31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Feb. 17, 2025~ Mar. 12, 2025	Jan. 08, 2026	Conducted (TH02-HY)
Power Meter	Anritsu	ML2495A	1036004	N/A	Jul. 04, 2024	Feb. 17, 2025~ Mar. 12, 2025	Jul. 03, 2025	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Jul. 04, 2024	Feb. 17, 2025~ Mar. 12, 2025	Jul. 03, 2025	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10Hz~44GHz	Jan. 14, 2025	Feb. 17, 2025~ Mar. 12, 2025	Jan. 13, 2026	Conducted (TH02-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Feb. 17, 2025~ Mar. 12, 2025	May 19, 2025	Conducted (TH02-HY)
Software	Sporton	BTWIFI_Final_ version_240513	N/A	Conducted Other Test Item	N/A	Feb. 17, 2025~ Mar. 12, 2025	N/A	Conducted (TH02-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 18, 2024	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 10, 2024	Dec. 18, 2024	Dec. 09, 2025	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Oct. 14, 2024	Dec. 18, 2024	Oct. 13, 2025	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 12, 2024	Dec. 18, 2024	Dec. 11, 2025	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 14, 2024	Dec. 18, 2024	Nov. 13, 2025	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Dec. 18, 2024	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 30, 2024	Dec. 18, 2024	Jul. 29, 2025	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	MQT2408250 1	N/A	Oct. 15, 2024	Dec. 18, 2024	Oct. 14, 2025	Conduction (CO05-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 22, 2024	Dec. 04, 2024 ~ Mar. 06, 2025	Apr. 21, 2025	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00075962	1GHz ~ 18GHz	Nov. 28, 2024	Dec. 04, 2024 ~ Mar. 06, 2025	Nov. 27, 2025	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 19, 2024	Dec. 04, 2024 ~ Mar. 06, 2025	Apr. 18, 2025	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 01, 2024	Dec. 04, 2024 ~ Mar. 06, 2025	Sep. 30, 2025	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Mar. 23, 2024	Dec. 04, 2024 ~ Mar. 06, 2025	Mar. 22, 2025	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Aug. 05, 2024	Dec. 04, 2024 ~ Mar. 06, 2025	Aug. 04, 2025	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 26, 2024	Dec. 04, 2024 ~ Mar. 06, 2025	Mar. 25, 2025	Radiation (03CH07-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4 MY15682/4	30MHz to 18GHz	Feb. 21, 2024	Dec. 04, 2024 ~ Feb. 19, 2025	Feb. 20, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4 MY15682/4	30MHz to 18GHz	Feb. 20, 2025	Feb. 20, 2025~ Mar. 06, 2025	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz to 30MHz	Feb. 21, 2024	Dec. 04, 2024 ~ Feb. 19, 2025	Feb. 20, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz to 30MHz	Feb. 20, 2025	Feb. 20, 2025~ Mar. 06, 2025	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 14, 2024	Dec. 04, 2024 ~ Mar. 06, 2025	Sep. 13, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 21, 2024	Dec. 04, 2024 ~ Feb. 19, 2025	Feb. 20, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 20, 2025	Feb. 20, 2025~ Mar. 06, 2025	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 22, 2024	Dec. 04, 2024 ~ Mar. 06, 2025	Apr. 21, 2025	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Dec. 04, 2024 ~ Mar. 06, 2025	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Dec. 04, 2024 ~ Mar. 06, 2025	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Dec. 04, 2024 ~ Mar. 06, 2025	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Dec. 04, 2024 ~ Mar. 06, 2025	N/A	Radiation (03CH07-HY)
Attenuator	HONOVA	5910 SMA-50-005-1 9-NE	ATT-36	N/A	Oct. 26, 2024	Dec. 04, 2024 ~ Feb. 10, 2025	Oct. 25, 2025	Radiation (03CH07-HY)
Attenuator	HONOVA	5910 SMA-50-005-1 9-NE	ATT-36	N/A	Feb. 11, 2025	Feb. 11, 2025 ~ Mar. 06, 2025	Feb. 10, 2026	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Dec. 04, 2024 ~ Mar. 06, 2025	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2468	N/A	Mar. 21, 2024	Dec. 04, 2024 ~ Mar. 06, 2025	Mar. 20, 2025	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	00991	18GHz~40GHz	Jun. 04, 2024	Dec. 04, 2024 ~ Mar. 06, 2025	Jun. 03, 2025	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug. 29, 2024	Dec. 04, 2024 ~ Mar. 06, 2025	Aug. 28, 2025	Radiation (03CH07-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	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% ($U = 2U_c(y)$)	6.2 dB
--	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.6 dB
--	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.3 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.9 dB
--	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Joseph Hu	Temperature:	21~25	°C
Test Date:	2025/2/17~2025/03/12	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna										
Mod.	Data Rate	N _{TX}	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	12.60	-	8.00	-	0.50	Pass
11b	1Mbps	1	6	2437	12.61	-	7.52	-	0.50	Pass
11b	1Mbps	1	11	2462	12.61	-	7.54	-	0.50	Pass
11g	6Mbps	1	1	2412	16.93	-	15.16	-	0.50	Pass
11g	6Mbps	1	6	2437	17.17	-	15.17	-	0.50	Pass
11g	6Mbps	1	11	2462	17.72	-	15.16	-	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)		Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	15.98	-	30.00	-	1.00	-	16.98	-	36.00	-	Pass
11b	1Mbps	1	6	2437	18.33	-	30.00	-	1.00	-	19.33	-	36.00	-	Pass
11b	1Mbps	1	11	2462	18.29	-	30.00	-	1.00	-	19.29	-	36.00	-	Pass
11g	6Mbps	1	1	2412	14.48	-	30.00	-	1.00	-	15.48	-	36.00	-	Pass
11g	6Mbps	1	6	2437	17.98	-	30.00	-	1.00	-	18.98	-	36.00	-	Pass
11g	6Mbps	1	11	2462	16.08	-	30.00	-	1.00	-	17.08	-	36.00	-	Pass
HT20	MCS0	1	1	2412	13.61	-	30.00	-	1.00	-	14.61	-	36.00	-	Pass
HT20	MCS0	1	6	2437	17.53	-	30.00	-	1.00	-	18.53	-	36.00	-	Pass
HT20	MCS0	1	11	2462	14.15	-	30.00	-	1.00	-	15.15	-	36.00	-	Pass

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

TEST RESULTS DATA
Peak Output Power

2.4GHz Band Single Antenna															
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	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	20.12	-	30.00	-	1.00	-	21.12	-	36.00	-	Pass
11b	1Mbps	1	6	2437	20.67	-	30.00	-	1.00	-	21.67	-	36.00	-	Pass
11b	1Mbps	1	11	2462	20.68	-	30.00	-	1.00	-	21.68	-	36.00	-	Pass
11g	6Mbps	1	1	2412	21.04	-	30.00	-	1.00	-	22.04	-	36.00	-	Pass
11g	6Mbps	1	6	2437	23.78	-	30.00	-	1.00	-	24.78	-	36.00	-	Pass
11g	6Mbps	1	11	2462	22.69	-	30.00	-	1.00	-	23.69	-	36.00	-	Pass
HT20	MCS0	1	1	2412	21.85	-	30.00	-	1.00	-	22.85	-	36.00	-	Pass
HT20	MCS0	1	6	2437	24.06	-	30.00	-	1.00	-	25.06	-	36.00	-	Pass
HT20	MCS0	1	11	2462	22.01	-	30.00	-	1.00	-	23.01	-	36.00	-	Pass

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

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	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	-4.59	-	1.00	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-4.86	-	1.00	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-4.33	-	1.00	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-10.93	-	1.00	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-8.10	-	1.00	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-9.48	-	1.00	-	8.00	-	Pass

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

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna											
Mod.	Data Rate	N _{TX}	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	18.81	-	16.86	-	0.50	Pass
HE20	MCS0	1	1	2412	26/0	17.85	-	2.00	-	0.50	Pass
HE20	MCS0	1	1	2412	52/37	17.69	-	16.94	-	0.50	Pass
HE20	MCS0	1	1	2412	106/53	17.58	-	17.01	-	0.50	Pass
HE20	MCS0	1	6	2437	Full	18.96	-	17.66	-	0.50	Pass
HE20	MCS0	1	6	2437	26/4	16.23	-	2.62	-	0.50	Pass
HE20	MCS0	1	6	2437	52/38	16.46	-	13.79	-	0.50	Pass
HE20	MCS0	1	6	2437	106/53	17.82	-	16.97	-	0.50	Pass
HE20	MCS0	1	11	2462	Full	18.83	-	18.33	-	0.50	Pass
HE20	MCS0	1	11	2462	26/8	17.83	-	2.01	-	0.50	Pass
HE20	MCS0	1	11	2462	52/40	17.69	-	15.69	-	0.50	Pass
HE20	MCS0	1	11	2462	106/54	17.68	-	16.99	-	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna																
Mod.	Data Rate	N _{TX}	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	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	1	1	2412	Full	13.71	-	30.00	-	1.00	-	14.71	-	36.00	-	Pass
HE20	MCS0	1	1	2412	26/0	13.68	-	30.00	-	1.00	-	14.68	-	36.00	-	Pass
HE20	MCS0	1	1	2412	52/37	12.62	-	30.00	-	1.00	-	13.62	-	36.00	-	Pass
HE20	MCS0	1	1	2412	106/53	13.27	-	30.00	-	1.00	-	14.27	-	36.00	-	Pass
HE20	MCS0	1	6	2437	Full	17.63	-	30.00	-	1.00	-	18.63	-	36.00	-	Pass
HE20	MCS0	1	6	2437	26/4	17.23	-	30.00	-	1.00	-	18.23	-	36.00	-	Pass
HE20	MCS0	1	6	2437	52/38	17.92	-	30.00	-	1.00	-	18.92	-	36.00	-	Pass
HE20	MCS0	1	6	2437	106/53	16.33	-	30.00	-	1.00	-	17.33	-	36.00	-	Pass
HE20	MCS0	1	11	2462	Full	14.25	-	30.00	-	1.00	-	15.25	-	36.00	-	Pass
HE20	MCS0	1	11	2462	26/8	11.08	-	30.00	-	1.00	-	12.08	-	36.00	-	Pass
HE20	MCS0	1	11	2462	52/40	11.19	-	30.00	-	1.00	-	12.19	-	36.00	-	Pass
HE20	MCS0	1	11	2462	106/54	13.19	-	30.00	-	1.00	-	14.19	-	36.00	-	Pass

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

TEST RESULTS DATA
Peak Output Power

2.4GHz Band Single Antenna																
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	RU Config	Peak Conducted Power (dBm)		Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	1	1	2412	Full	21.95	-	30.00	-	1.00	-	22.95	-	36.00	-	Pass
HE20	MCS0	1	1	2412	26/0	22.15	-	30.00	-	1.00	-	23.15	-	36.00	-	Pass
HE20	MCS0	1	1	2412	52/37	21.46	-	30.00	-	1.00	-	22.46	-	36.00	-	Pass
HE20	MCS0	1	1	2412	106/53	22.03	-	30.00	-	1.00	-	23.03	-	36.00	-	Pass
HE20	MCS0	1	6	2437	Full	24.16	-	30.00	-	1.00	-	25.16	-	36.00	-	Pass
HE20	MCS0	1	6	2437	26/4	23.68	-	30.00	-	1.00	-	24.68	-	36.00	-	Pass
HE20	MCS0	1	6	2437	52/38	24.11	-	30.00	-	1.00	-	25.11	-	36.00	-	Pass
HE20	MCS0	1	6	2437	106/53	23.46	-	30.00	-	1.00	-	24.46	-	36.00	-	Pass
HE20	MCS0	1	11	2462	Full	22.11	-	30.00	-	1.00	-	23.11	-	36.00	-	Pass
HE20	MCS0	1	11	2462	26/8	20.09	-	30.00	-	1.00	-	21.09	-	36.00	-	Pass
HE20	MCS0	1	11	2462	52/40	19.34	-	30.00	-	1.00	-	20.34	-	36.00	-	Pass
HE20	MCS0	1	11	2462	106/54	22.19	-	30.00	-	1.00	-	23.19	-	36.00	-	Pass

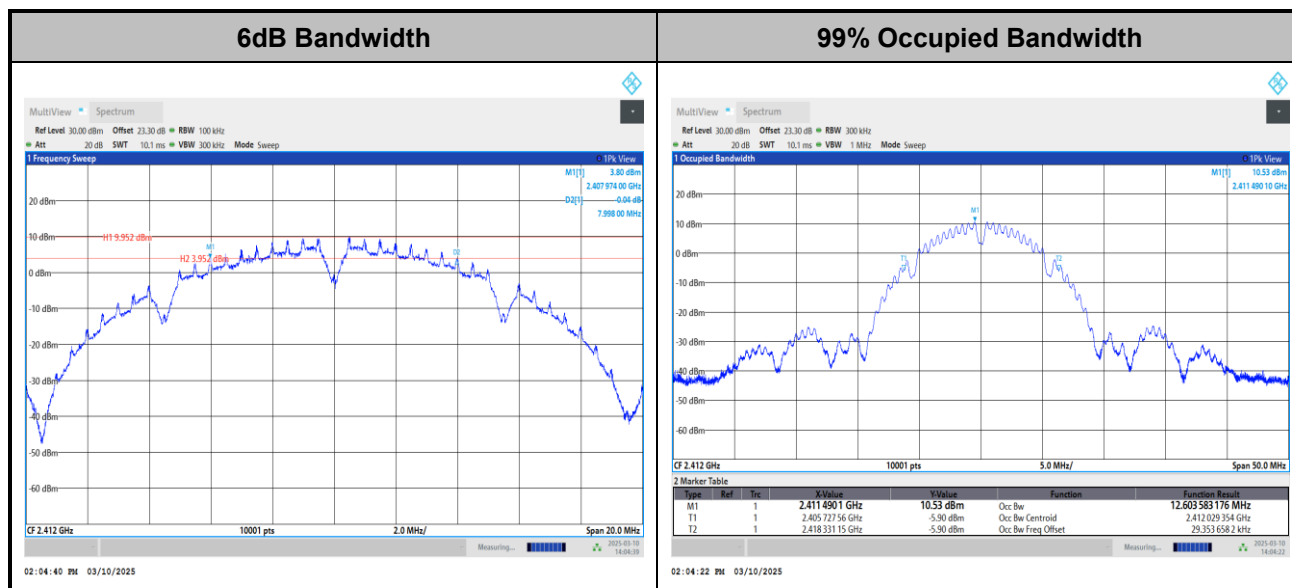
Note: Measured power (dBm) has offset with cable loss.

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	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	1	1	2412	Full	-12.41	-	1.00	-	8.00	-	Pass
HE20	MCS0	1	1	2412	26/0	-3.49	-	1.00	-	8.00	-	Pass
HE20	MCS0	1	1	2412	52/37	-8.25	-	1.00	-	8.00	-	Pass
HE20	MCS0	1	1	2412	106/53	-10.73	-	1.00	-	8.00	-	Pass
HE20	MCS0	1	6	2437	Full	-9.91	-	1.00	-	8.00	-	Pass
HE20	MCS0	1	6	2437	26/4	-0.46	-	1.00	-	8.00	-	Pass
HE20	MCS0	1	6	2437	52/38	-2.39	-	1.00	-	8.00	-	Pass
HE20	MCS0	1	6	2437	106/53	-6.07	-	1.00	-	8.00	-	Pass
HE20	MCS0	1	11	2462	Full	-13.03	-	1.00	-	8.00	-	Pass
HE20	MCS0	1	11	2462	26/8	-7.43	-	1.00	-	8.00	-	Pass
HE20	MCS0	1	11	2462	52/40	-9.11	-	1.00	-	8.00	-	Pass
HE20	MCS0	1	11	2462	106/54	-10.34	-	1.00	-	8.00	-	Pass

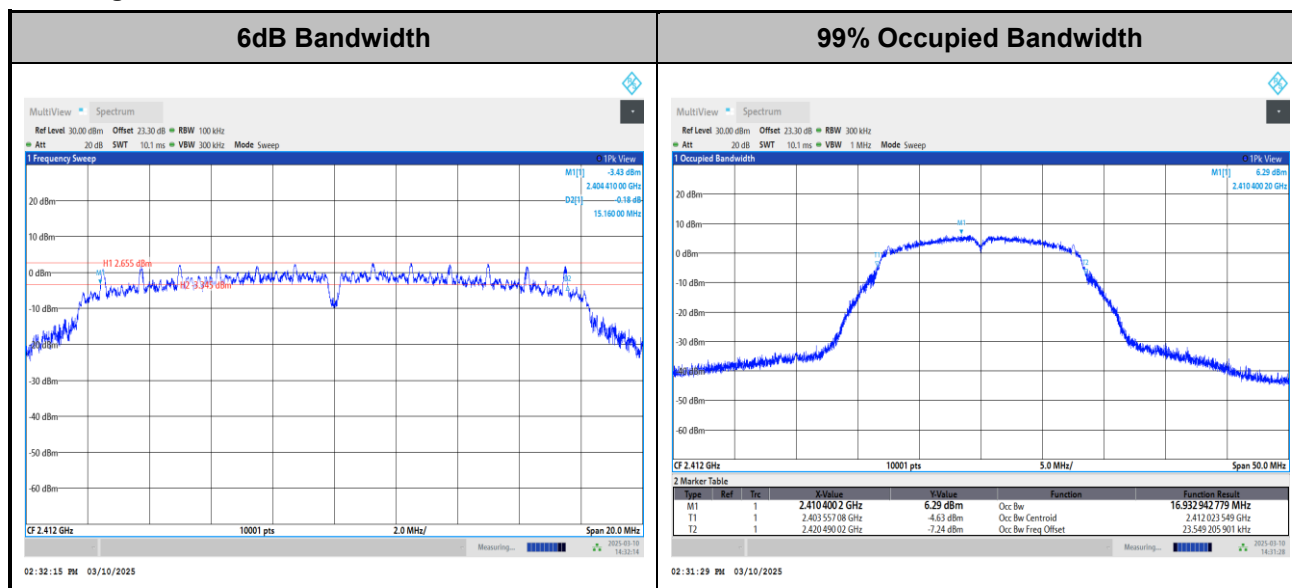
**6dB and 99% Occupied Bandwidth**

<802.11b>



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

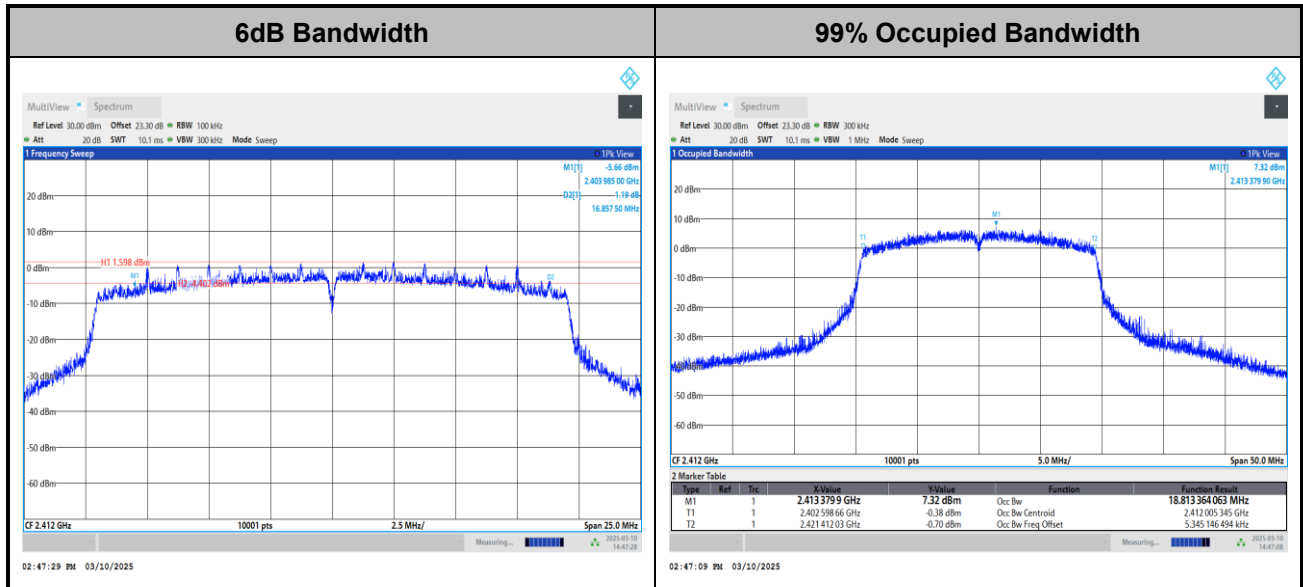
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Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



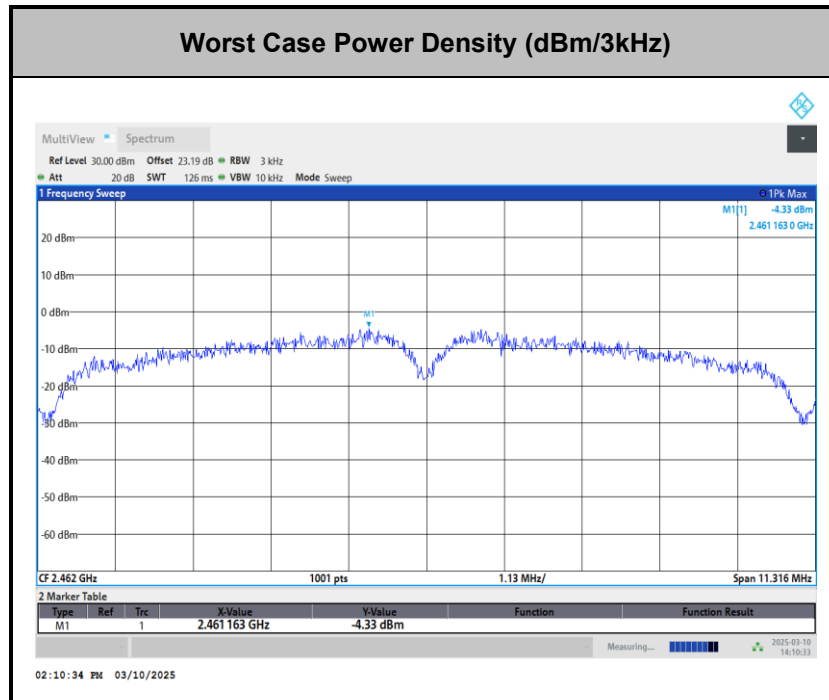
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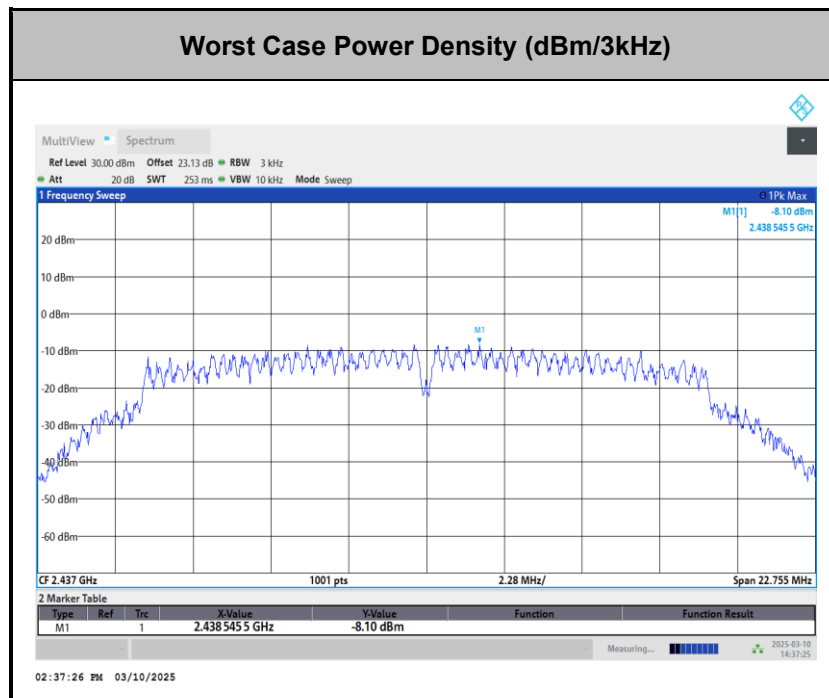
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

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

<802.11b>

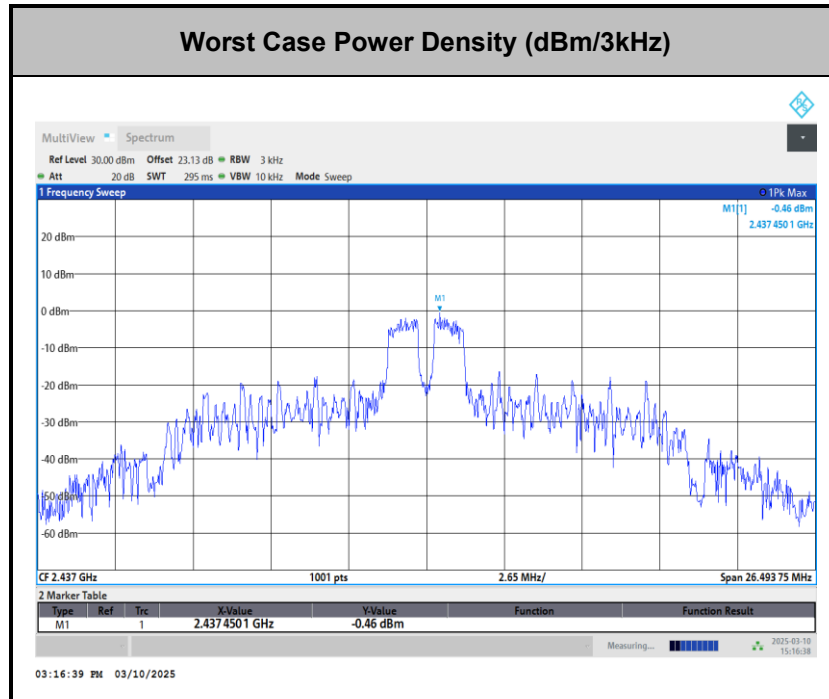


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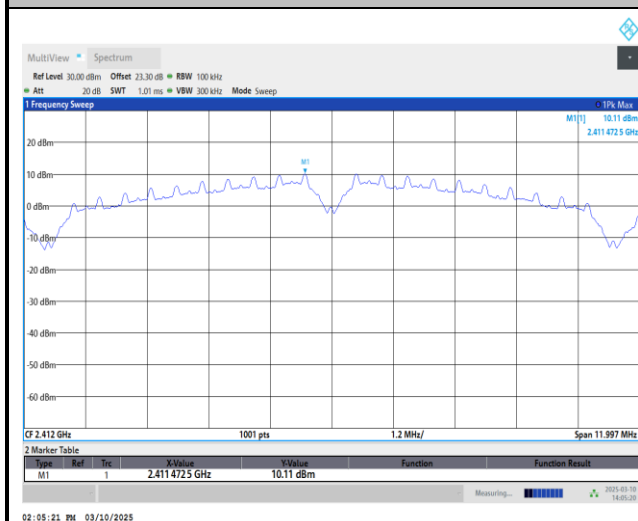
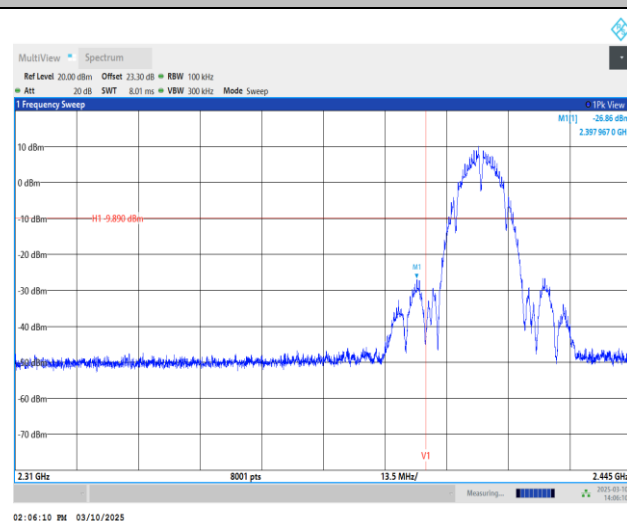
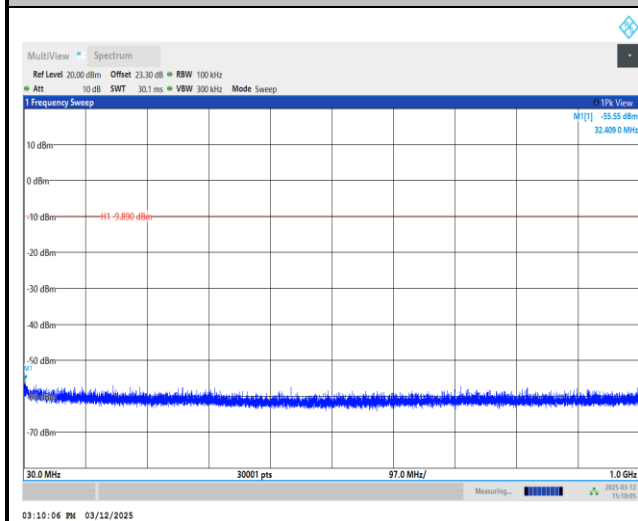
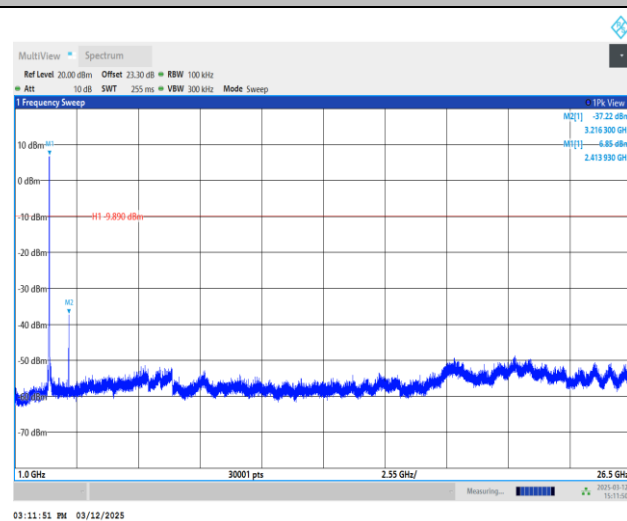


**Band Edges and Spurious Emission**

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

Test Mode : 802.11b

Test Channel : 01

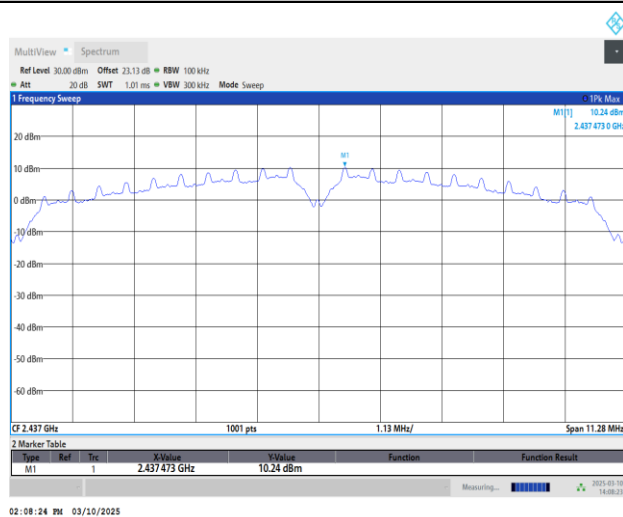
100kHz PSD reference Level**Channel 01 Plot****Spurious Emission 30MHz~1GHz****Spurious Emission 1GHz~26.5GHz**



Test Mode : 802.11b

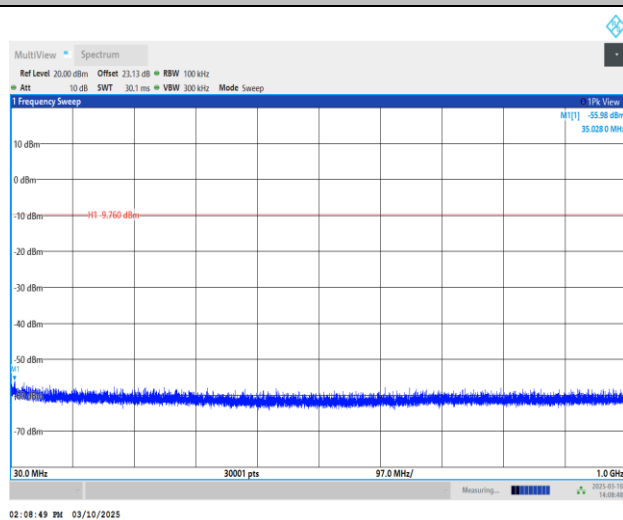
Test Channel : 06

100kHz PSD reference Level

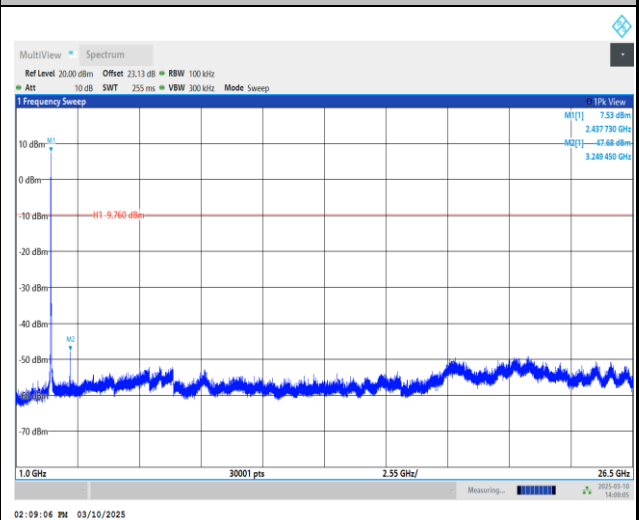


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

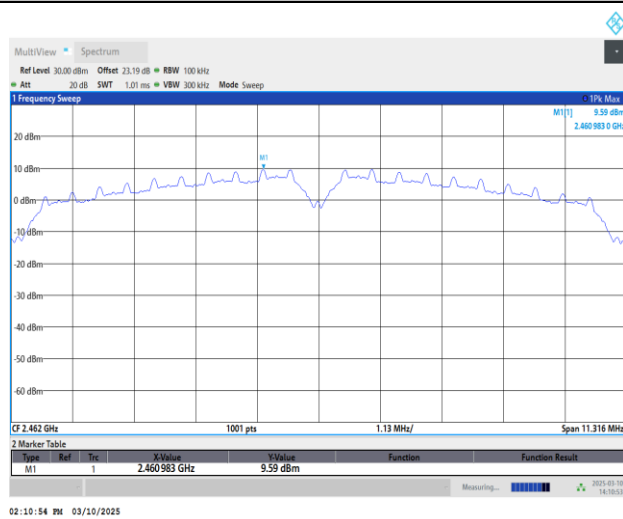




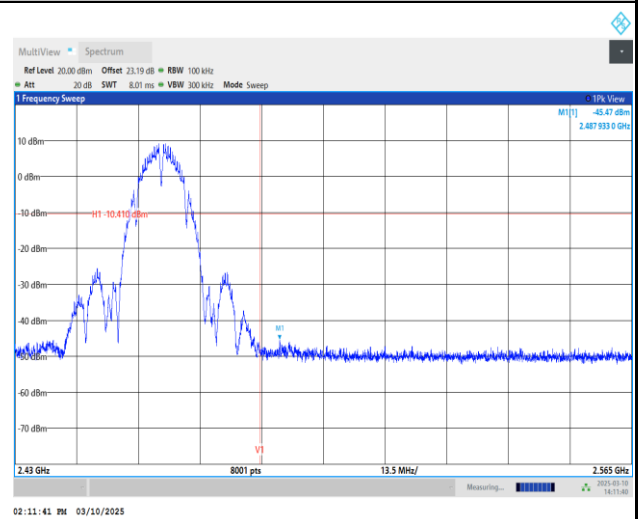
Test Mode : 802.11b

Test Channel : 11

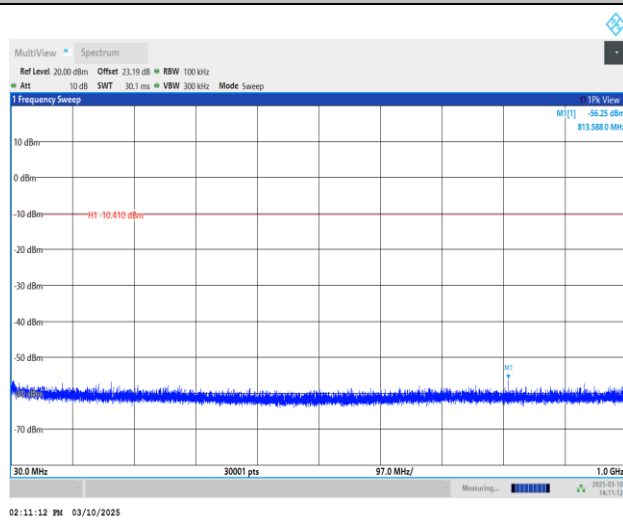
100kHz PSD reference Level



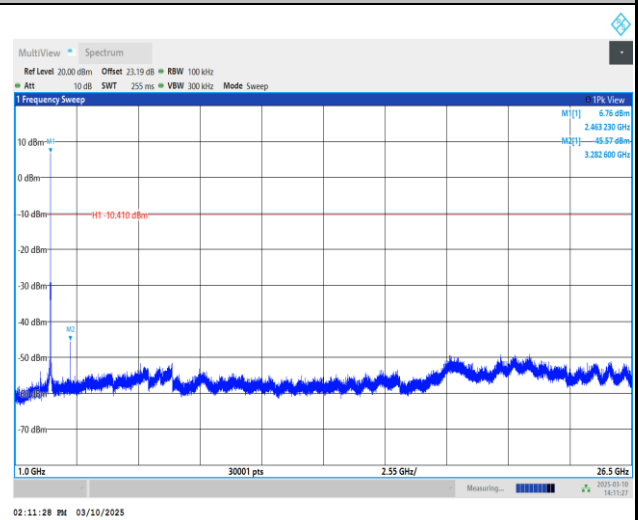
Channel 11 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

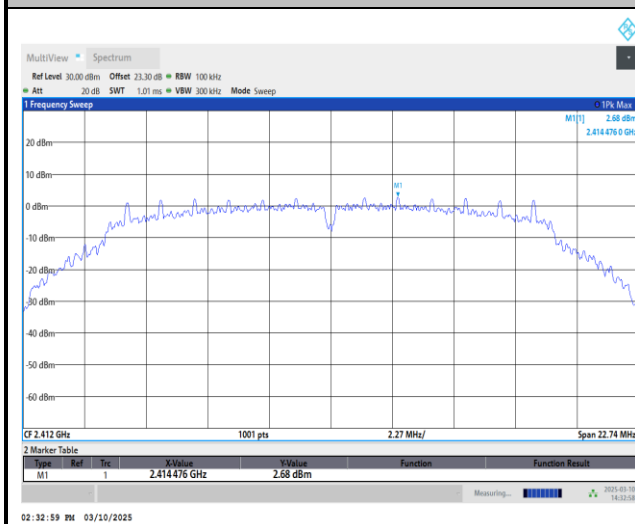




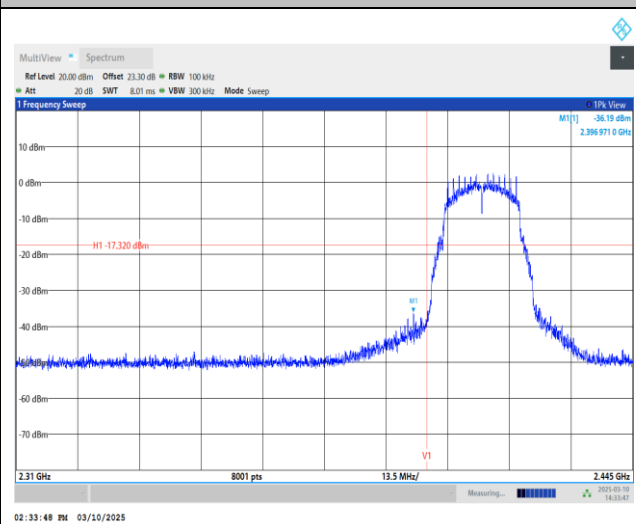
Test Mode : 802.11g

Test Channel : 01

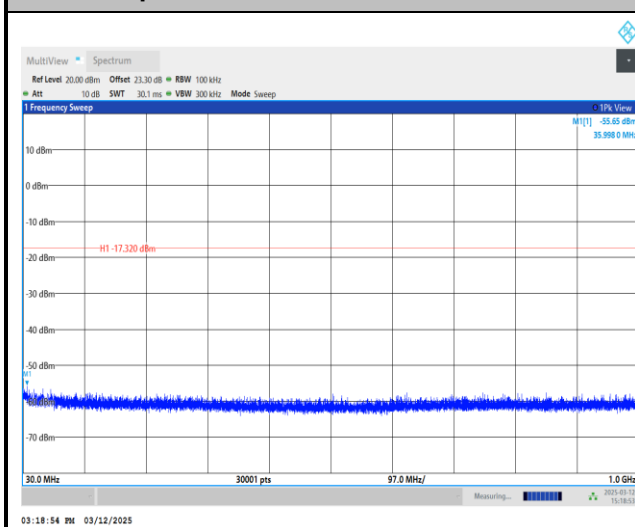
100kHz PSD reference Level



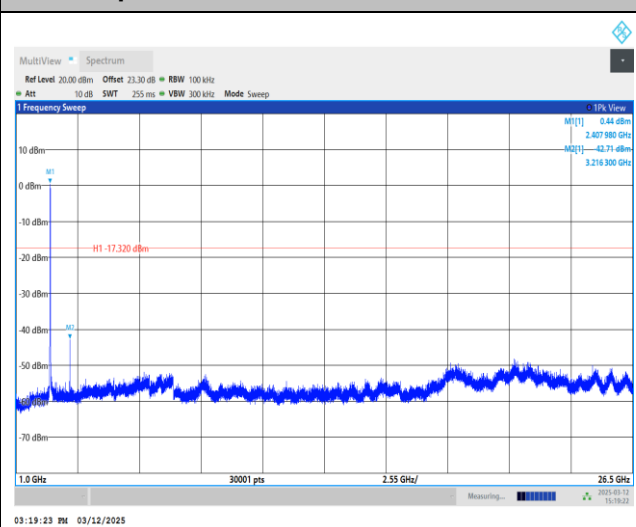
Channel 01 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

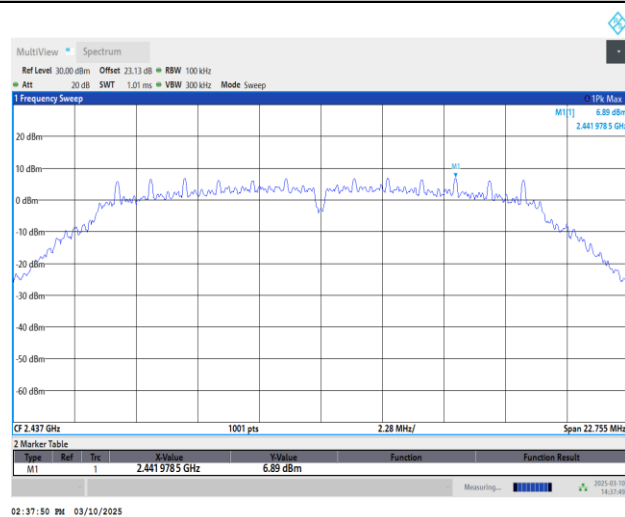




Test Mode : 802.11g

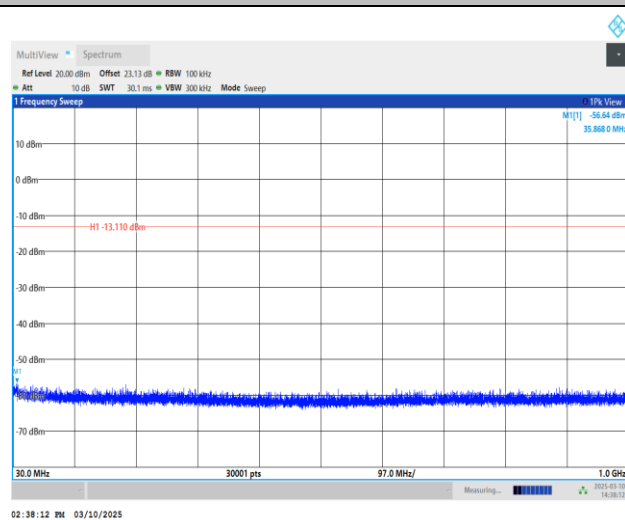
Test Channel : 06

100kHz PSD reference Level

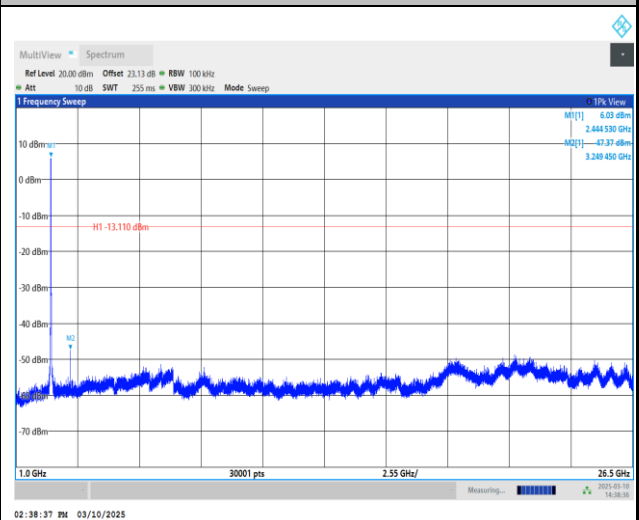


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

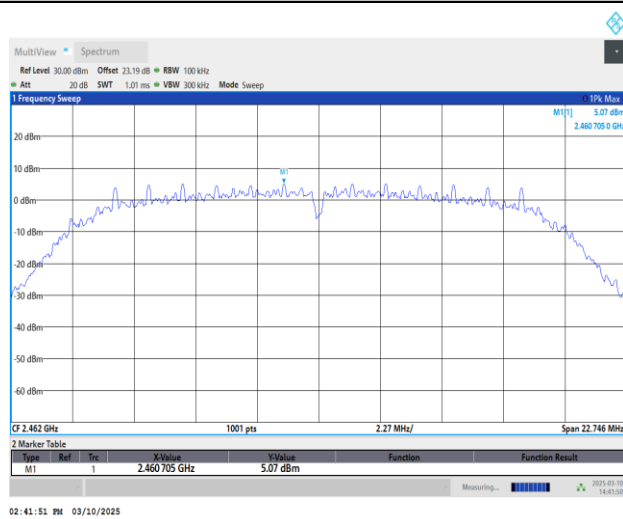




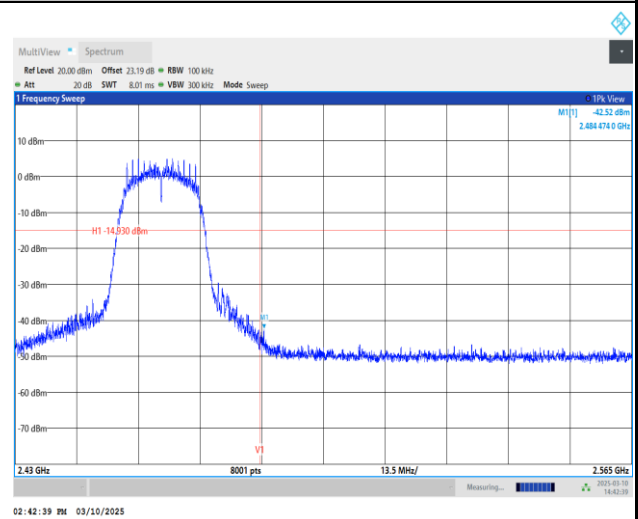
Test Mode : 802.11g

Test Channel : 11

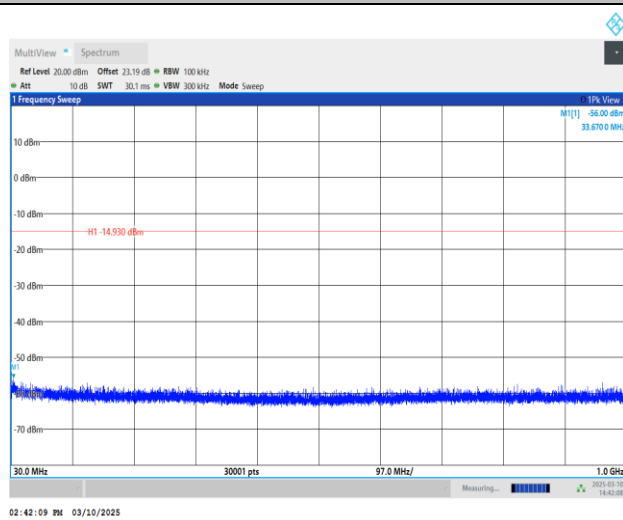
100kHz PSD reference Level



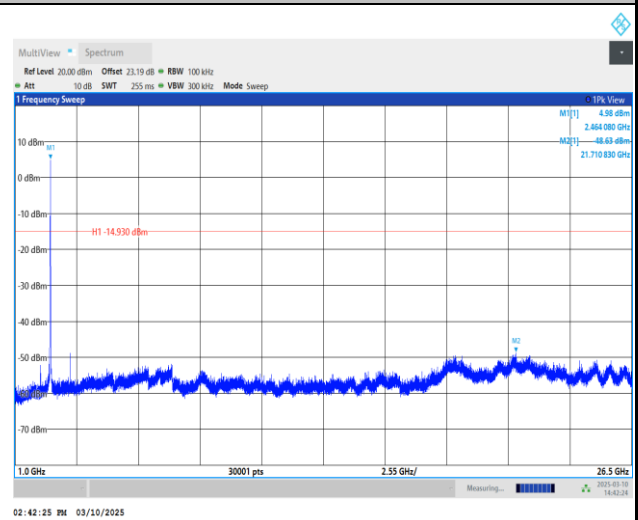
Channel 11 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

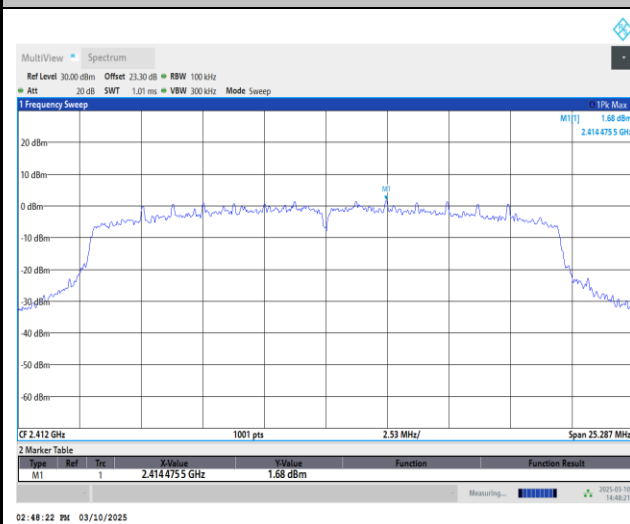




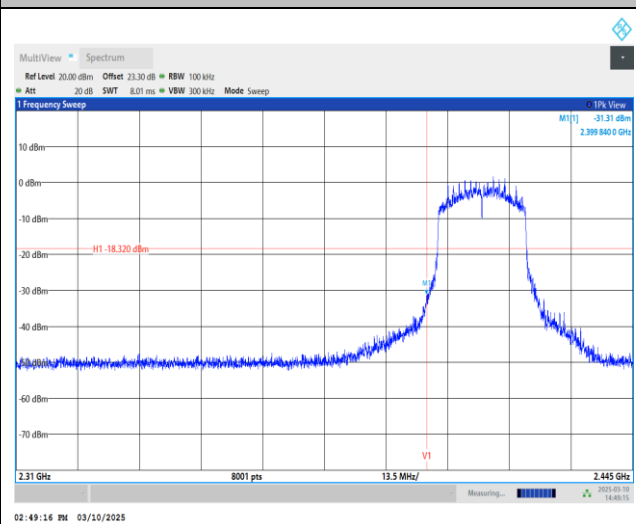
Test Mode : 802.11ax HE20_FullIRU

Test Channel : 01

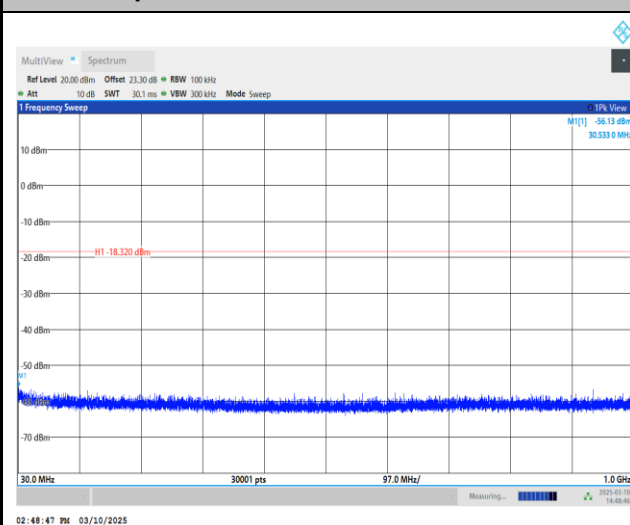
100kHz PSD reference Level



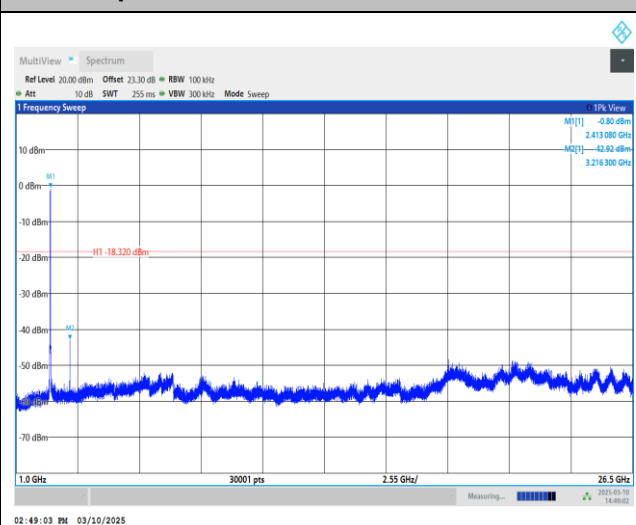
Channel 01 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

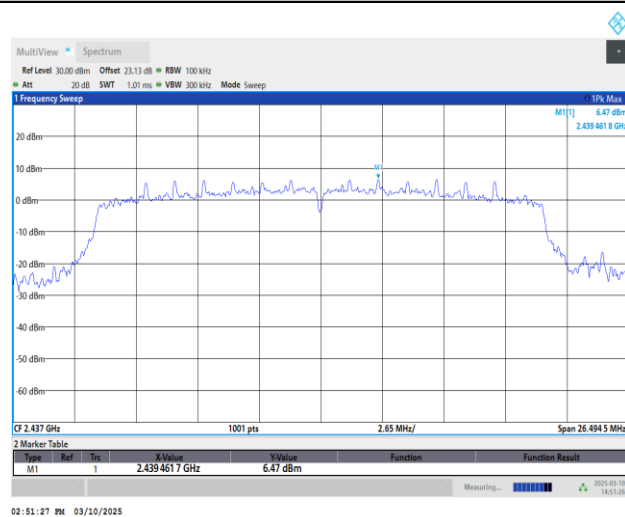




Test Mode : 802.11ax HE20_FullIRU

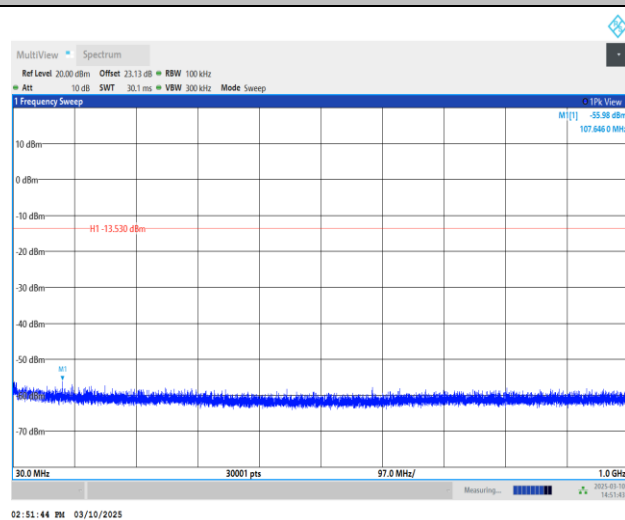
Test Channel : 06

100kHz PSD reference Level

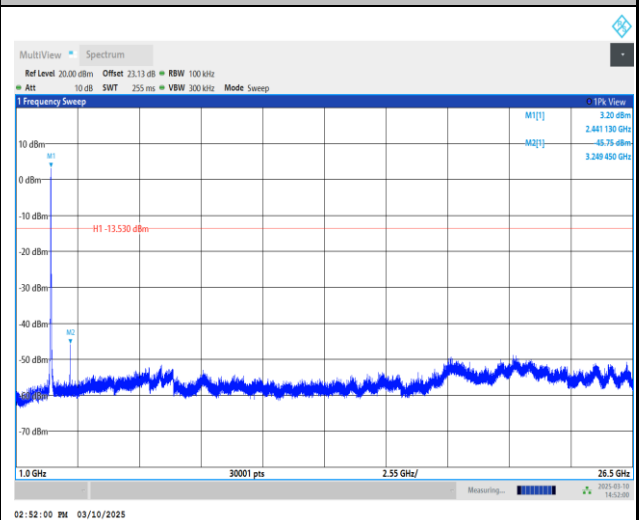


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

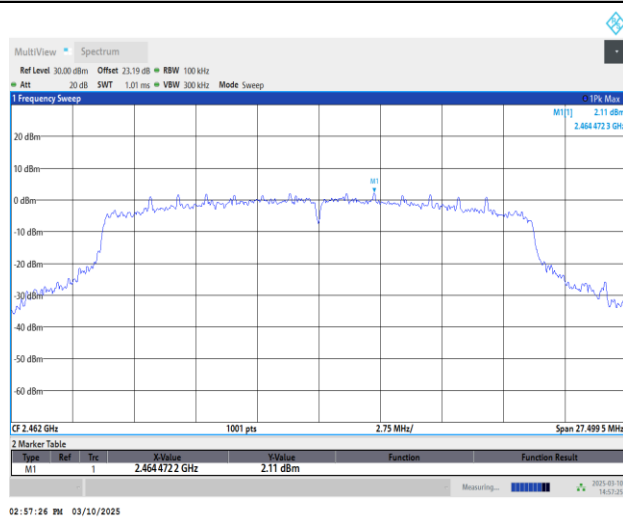




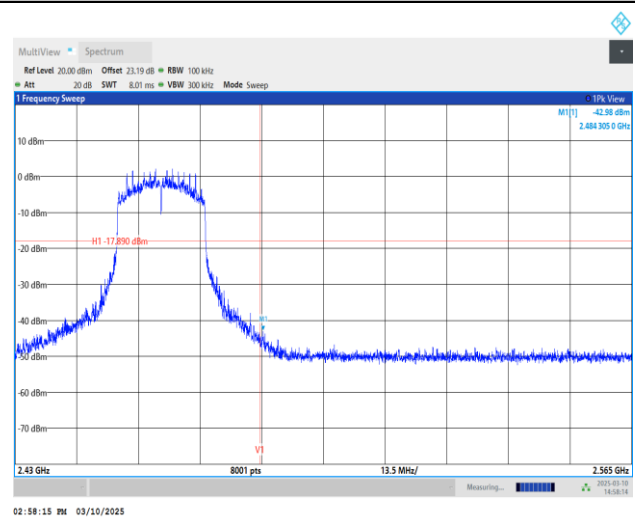
Test Mode : 802.11ax HE20_FullIRU

Test Channel : 11

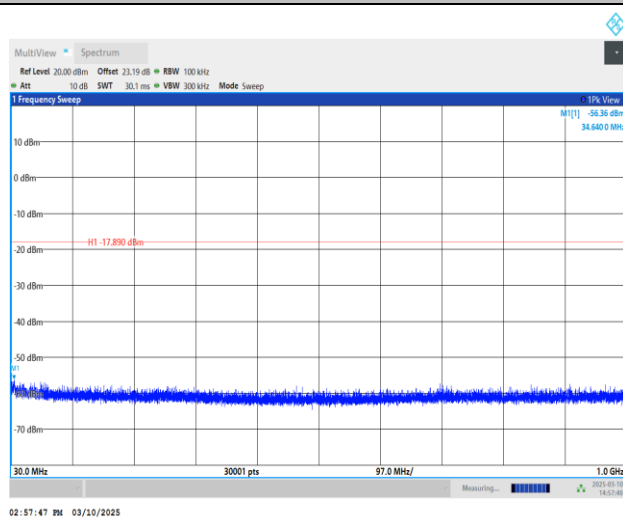
100kHz PSD reference Level



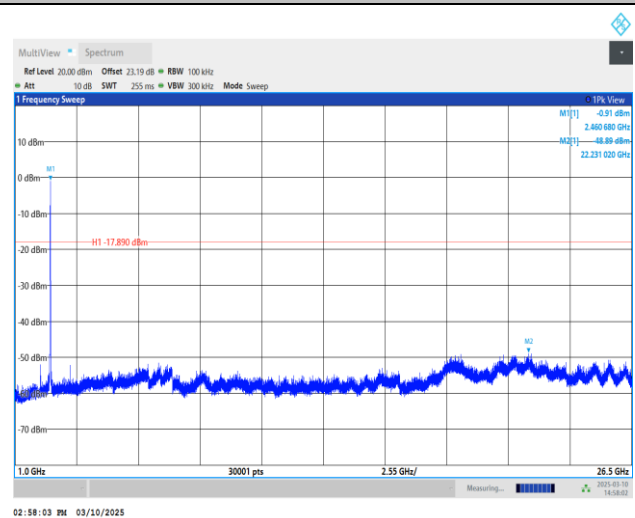
Channel 11 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

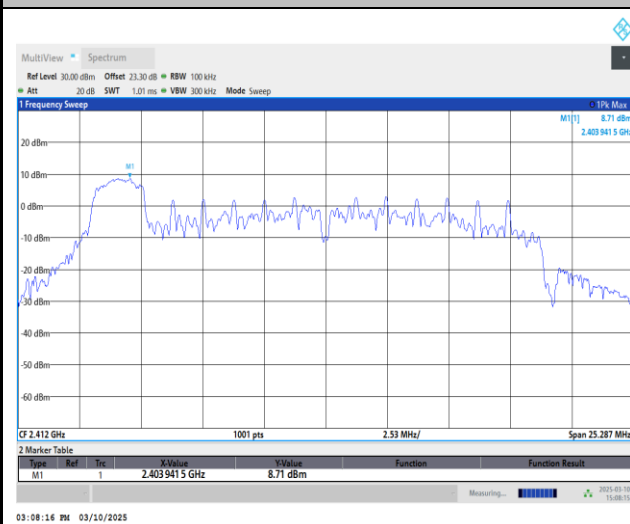




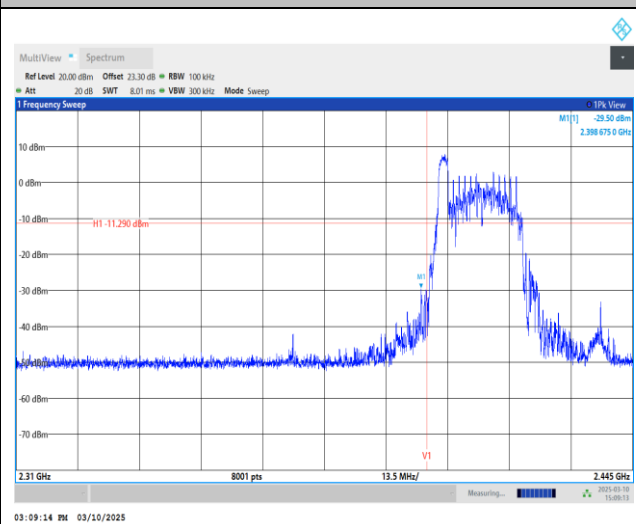
Test Mode : 802.11ax HE20_26RU

Test Channel : 01

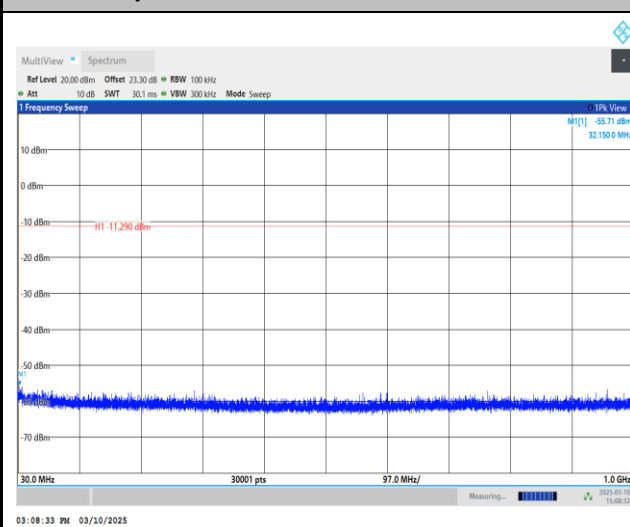
100kHz PSD reference Level



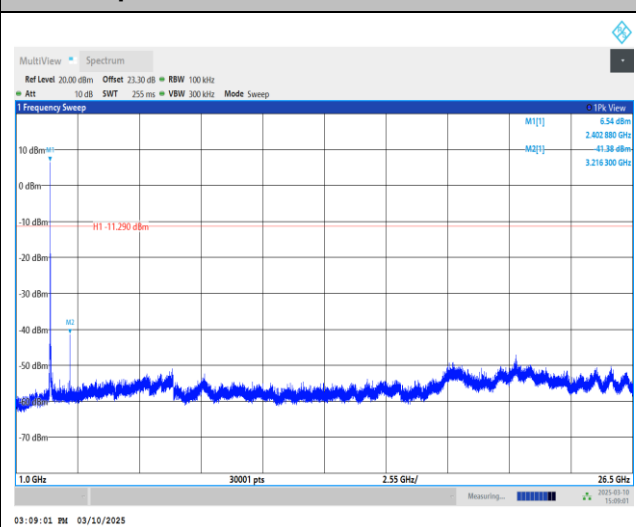
Channel 01 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

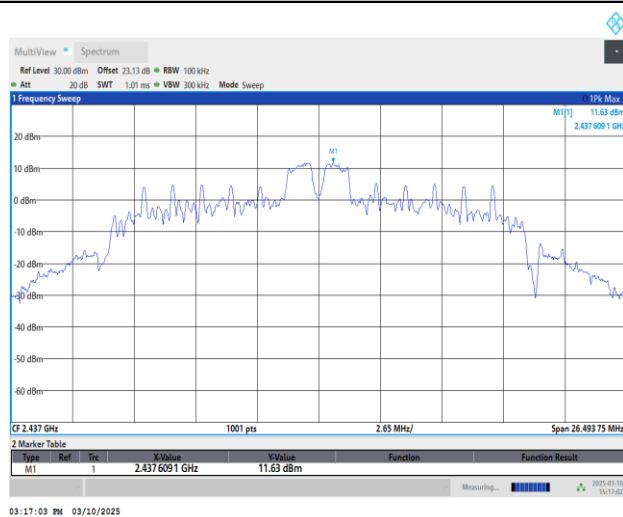




Test Mode : 802.11ax HE20_26RU

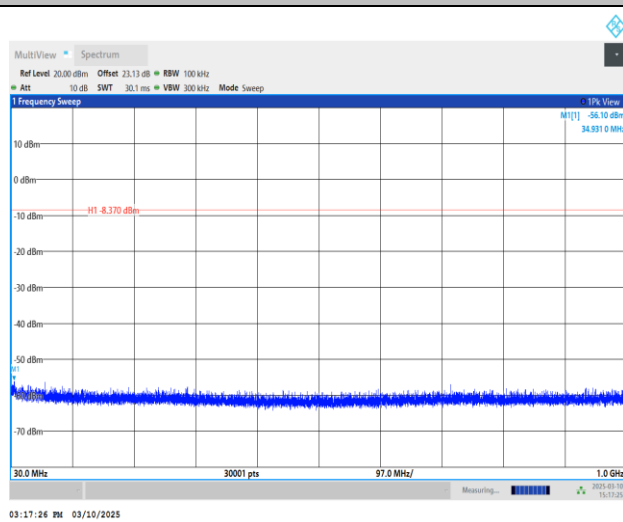
Test Channel : 06

100kHz PSD reference Level

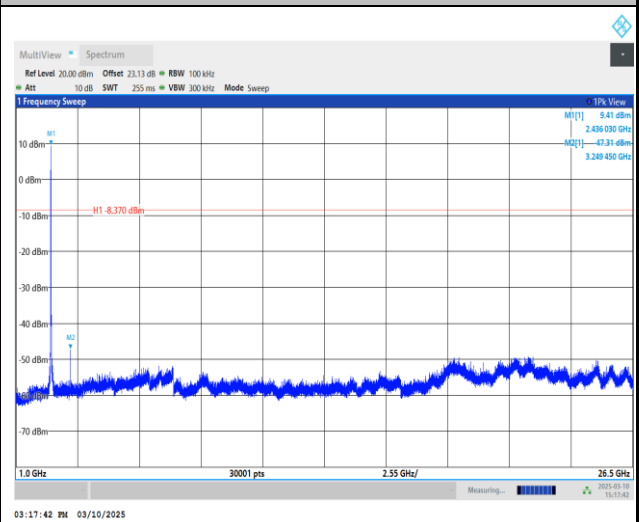


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

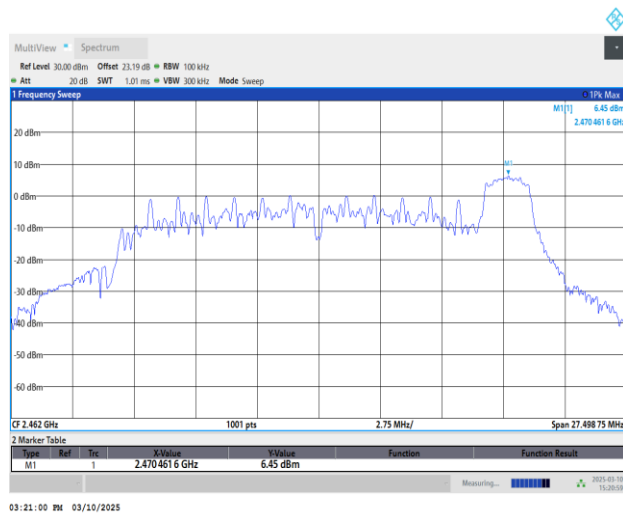




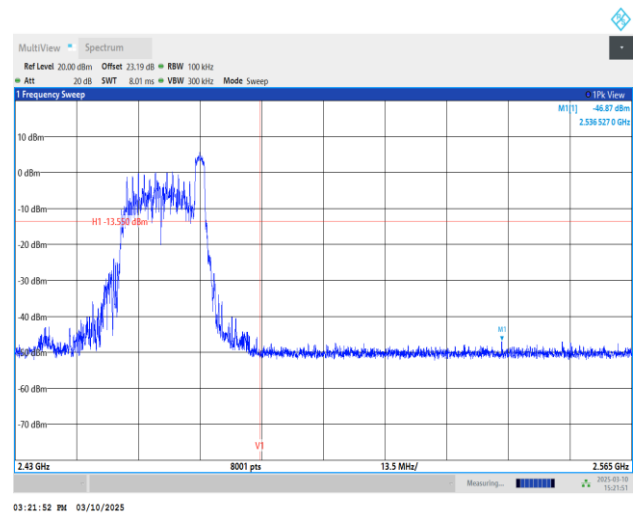
Test Mode : 802.11ax HE20_26RU

Test Channel : 11

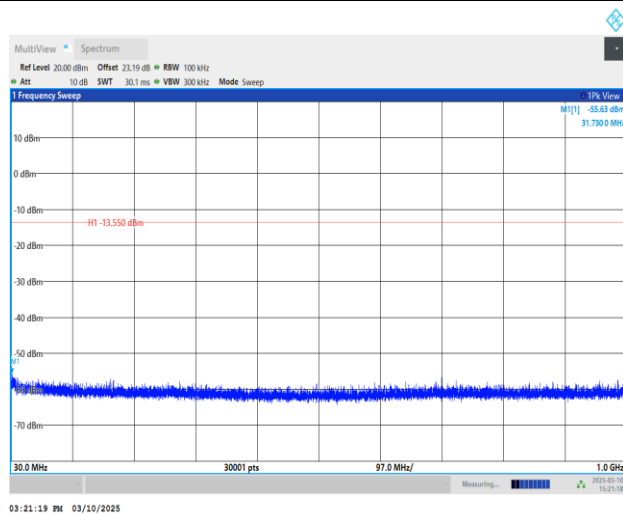
100kHz PSD reference Level



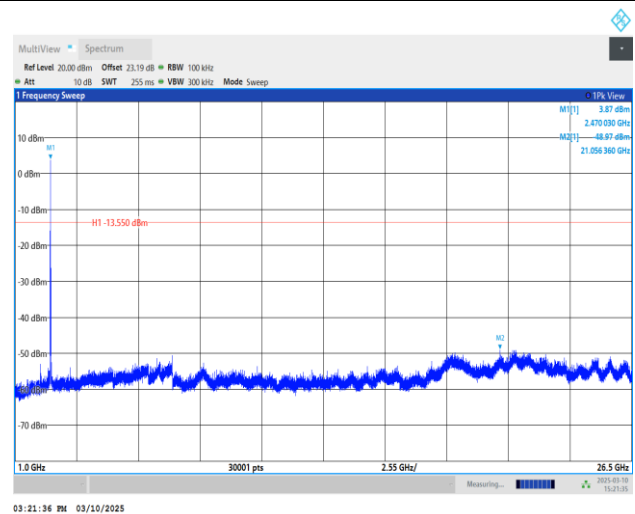
Channel 11 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

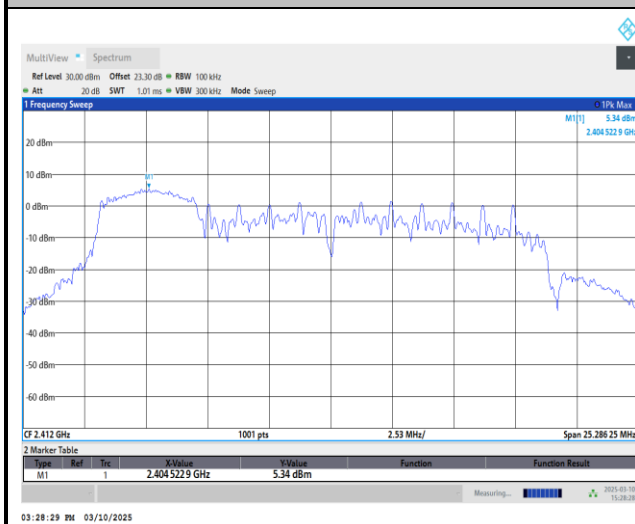




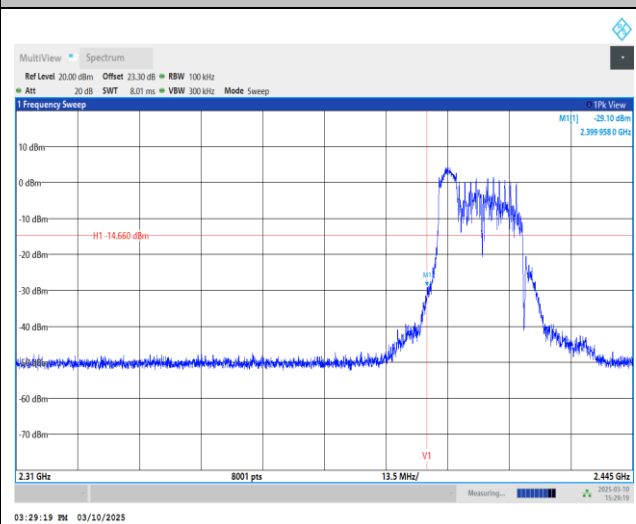
Test Mode : 802.11ax HE20_52RU

Test Channel : 01

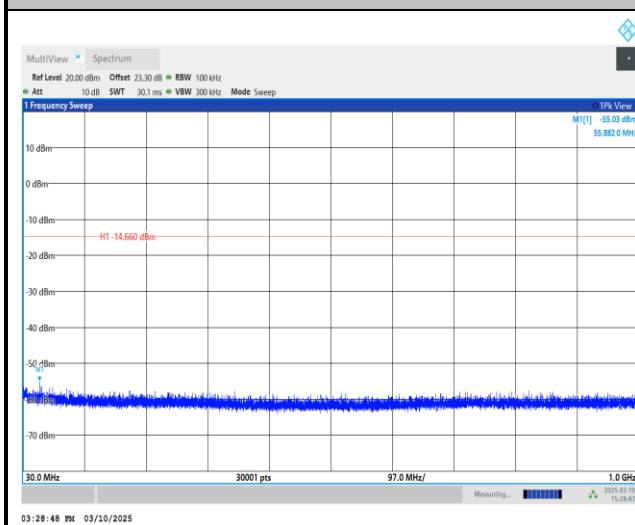
100kHz PSD reference Level



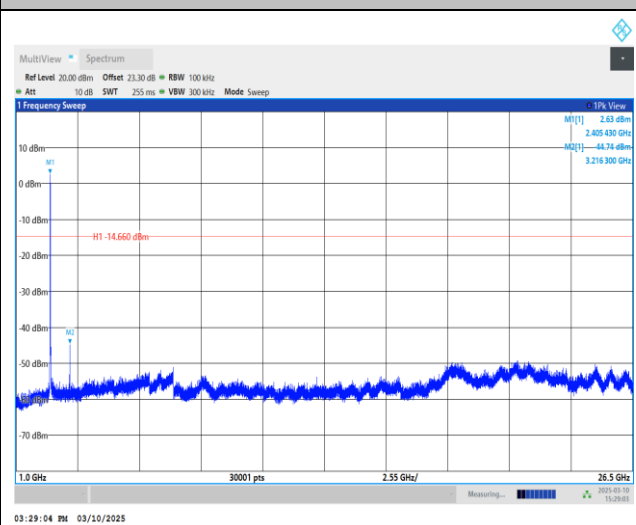
Channel 01 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

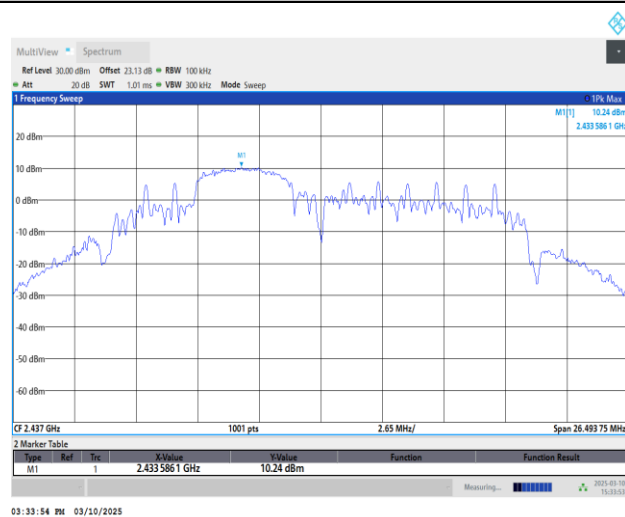




Test Mode : 802.11ax HE20_52RU

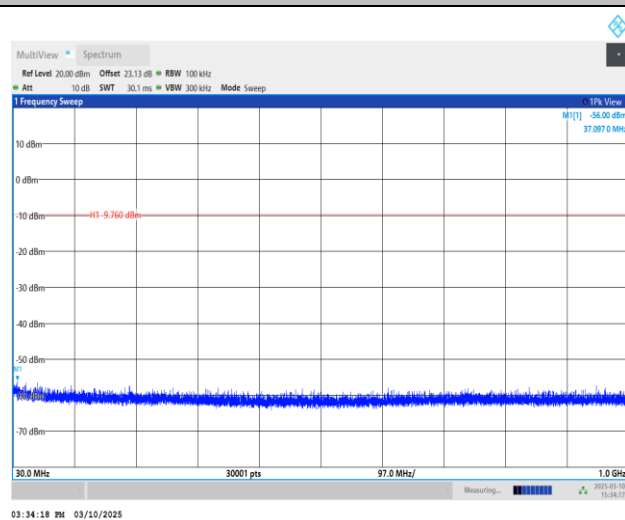
Test Channel : 06

100kHz PSD reference Level

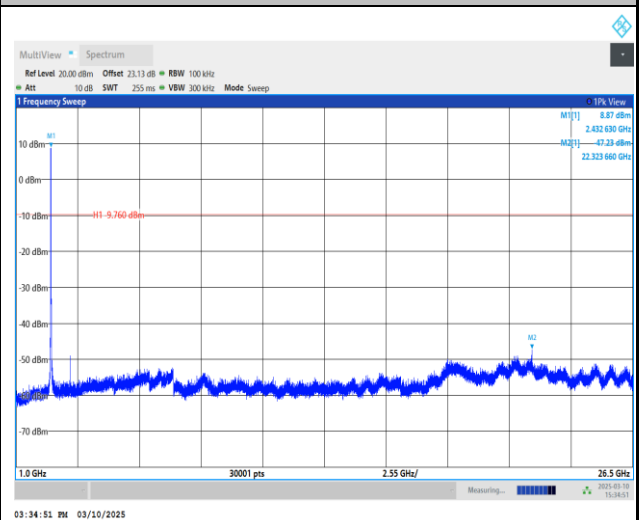


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

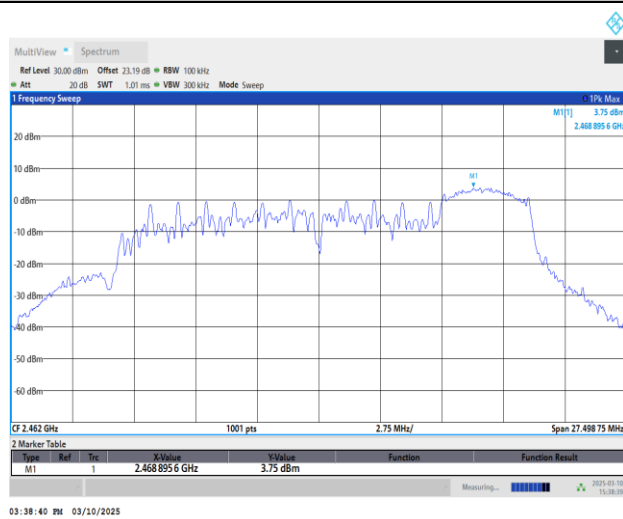




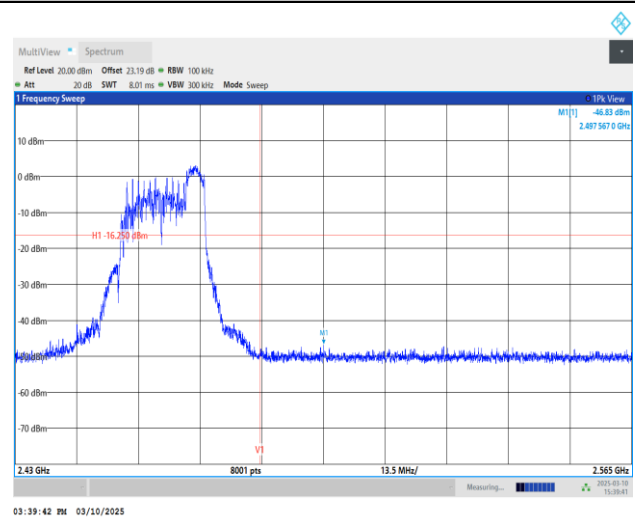
Test Mode : 802.11ax HE20_52RU

Test Channel : 11

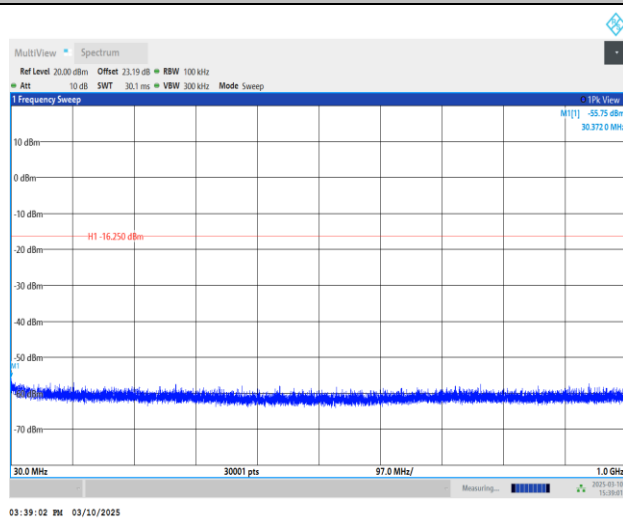
100kHz PSD reference Level



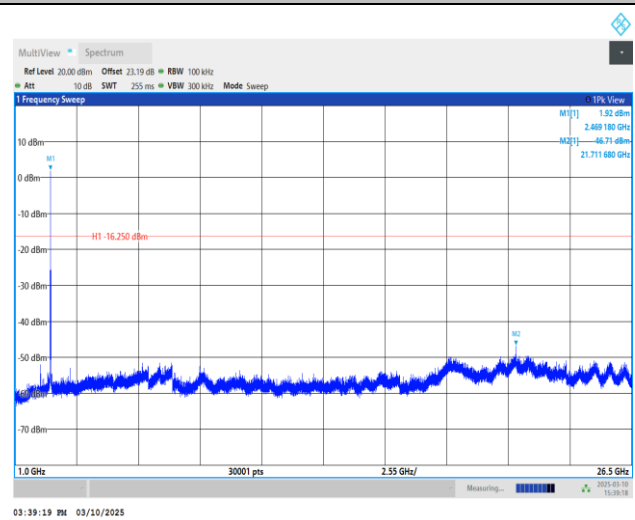
Channel 11 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

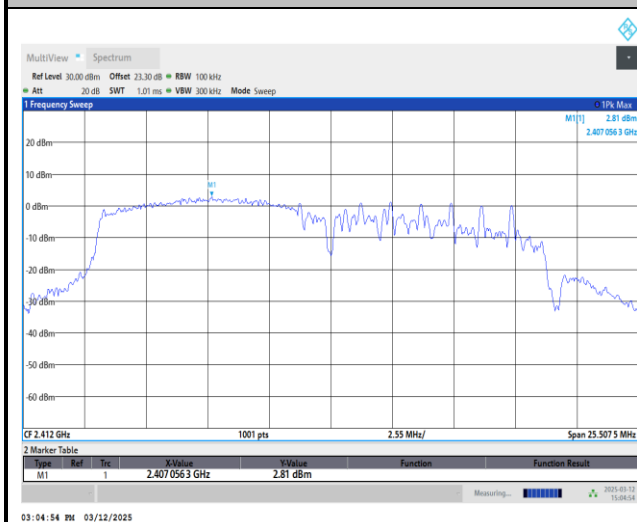




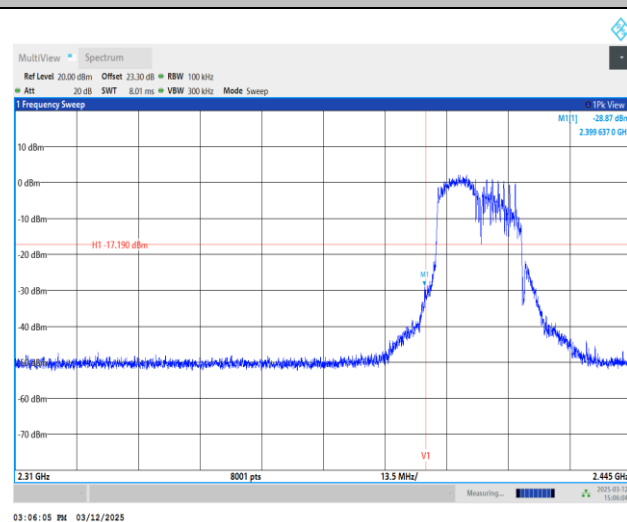
Test Mode : 802.11ax HE20_106RU

Test Channel : 01

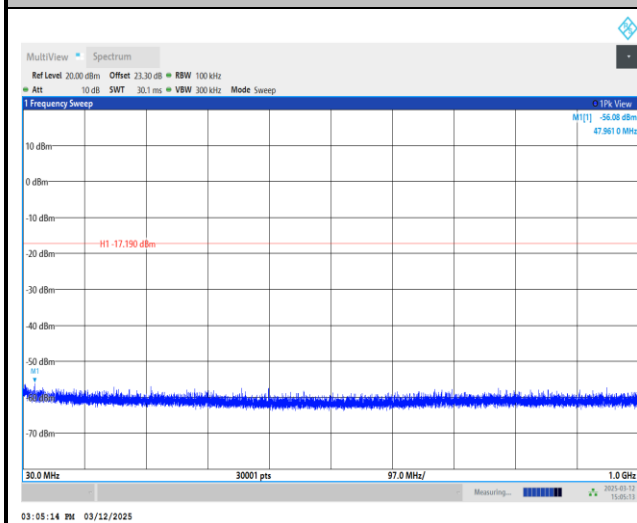
100kHz PSD reference Level



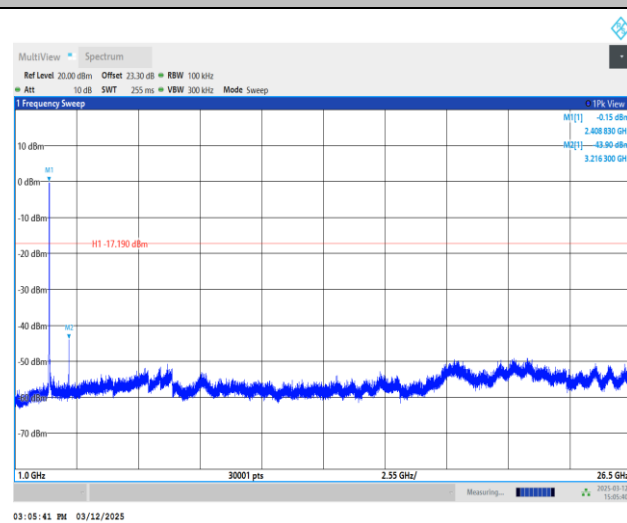
Channel 01 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

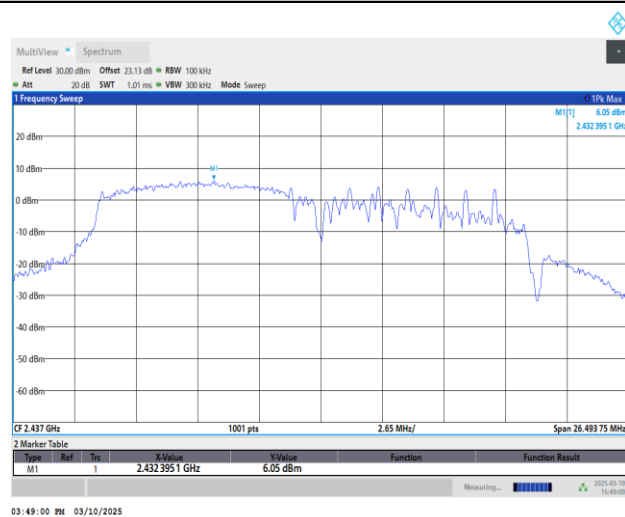




Test Mode : 802.11ax HE20_106RU

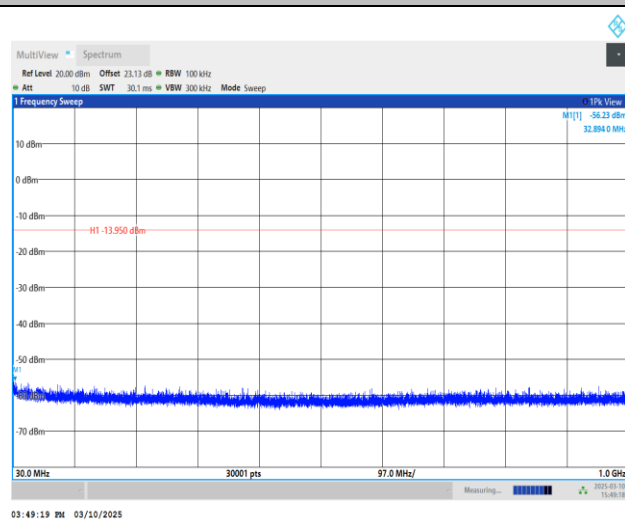
Test Channel : 06

100kHz PSD reference Level

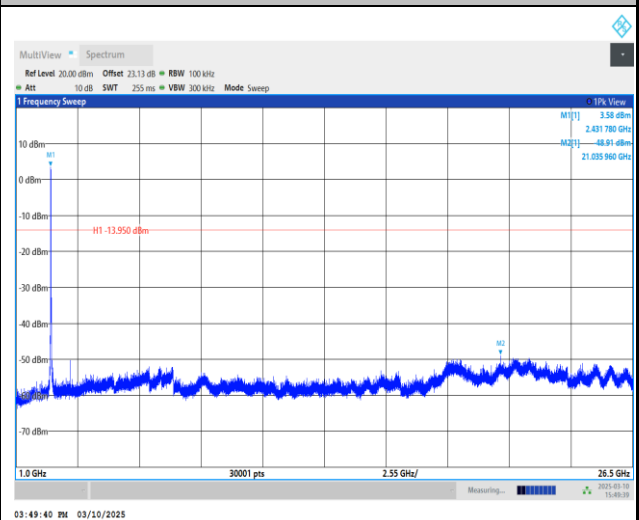


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

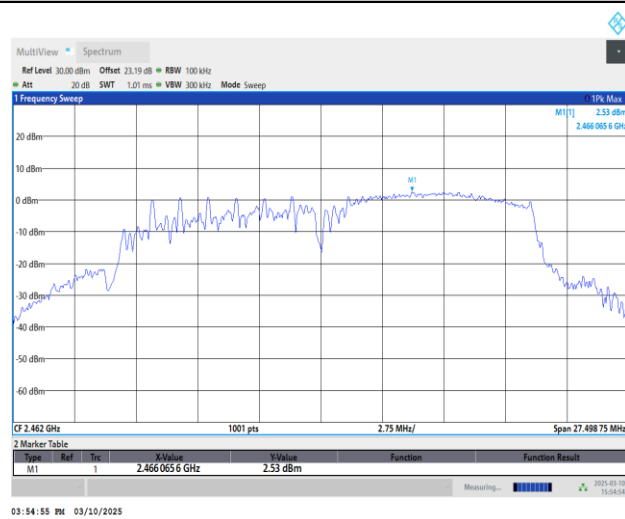




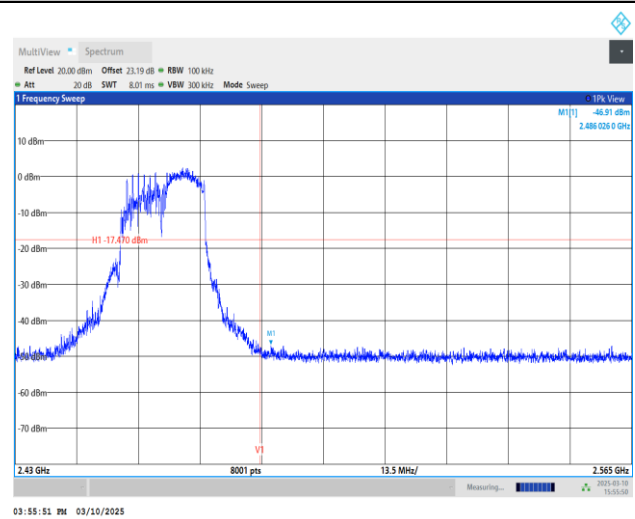
Test Mode : 802.11ax HE20_106RU

Test Channel : 11

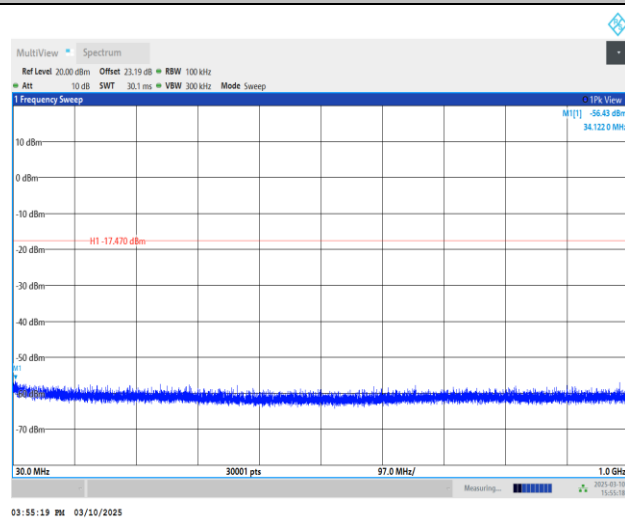
100kHz PSD reference Level



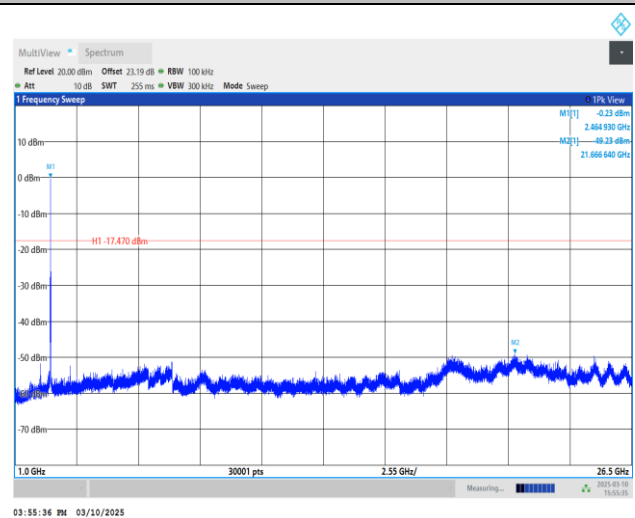
Channel 11 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz





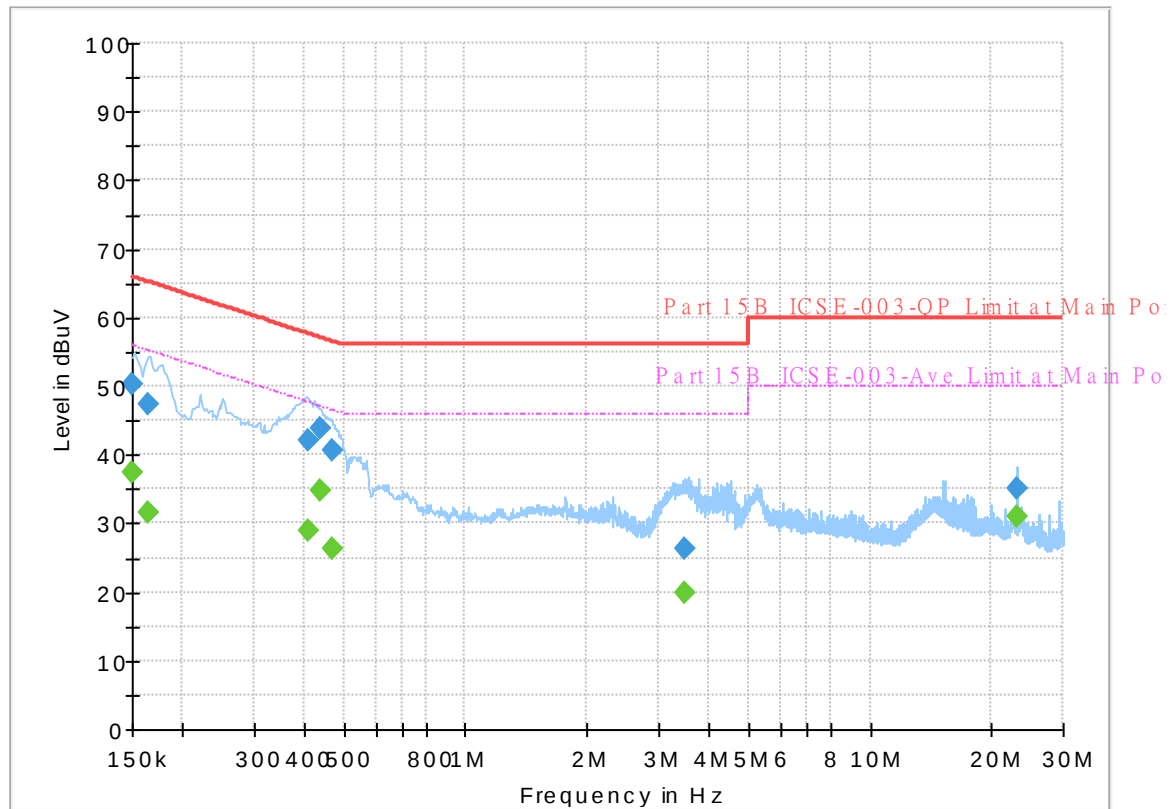
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Cavin Wang	Temperature :	23~26°C
		Relative Humidity :	45~55%

EUT Information

Report NO : 482308
 Test Mode : Mode 2
 Test Voltage : Power From System
 Phase : Line

Full Spectrum



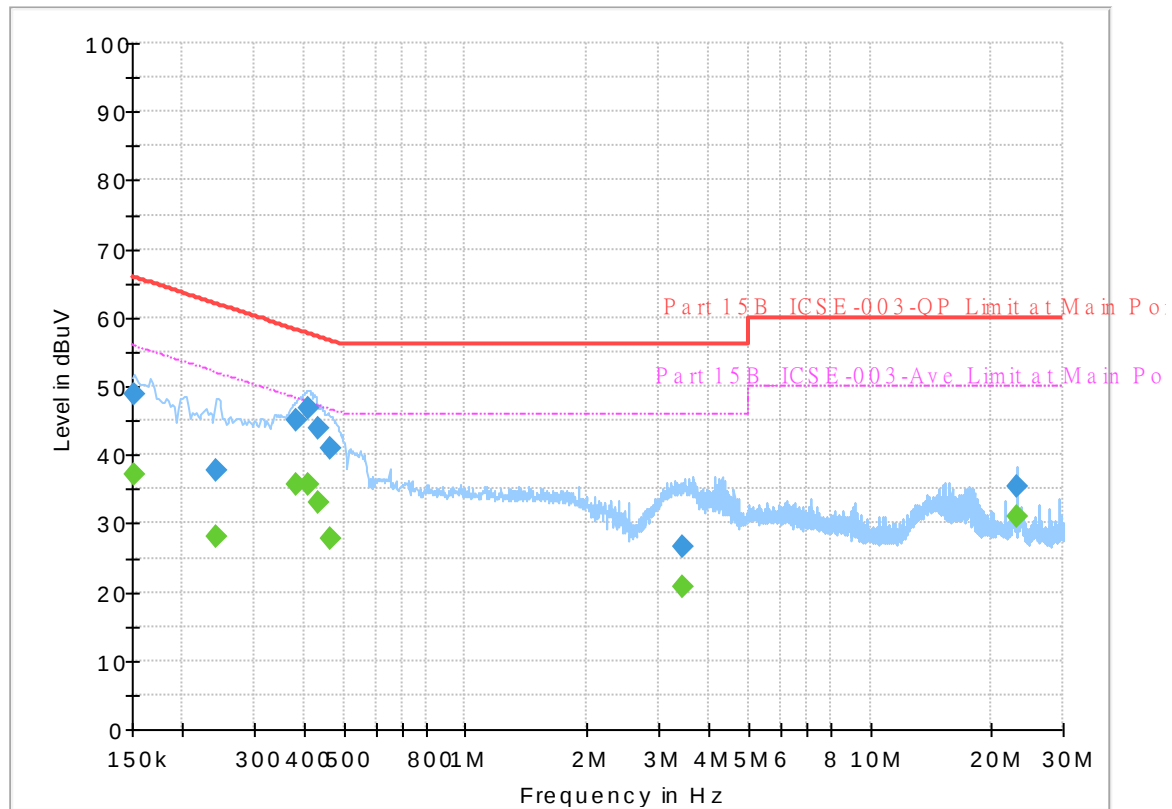
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	37.44	56.00	18.56	L1	OFF	19.8
0.150000	50.20	---	66.00	15.80	L1	OFF	19.8
0.163500	---	31.65	55.28	23.63	L1	OFF	19.8
0.163500	47.23	---	65.28	18.05	L1	OFF	19.8
0.411000	---	28.85	47.63	18.78	L1	OFF	19.8
0.411000	42.01	---	57.63	15.62	L1	OFF	19.8
0.435750	---	34.78	47.14	12.36	L1	OFF	19.8
0.435750	43.96	---	57.14	13.18	L1	OFF	19.8
0.467250	---	26.41	46.56	20.15	L1	OFF	19.8
0.467250	40.67	---	56.56	15.89	L1	OFF	19.8
3.484500	---	19.77	46.00	26.23	L1	OFF	19.8
3.484500	26.35	---	56.00	29.65	L1	OFF	19.8
23.039250	---	31.02	50.00	18.98	L1	OFF	19.9
23.039250	35.07	---	60.00	24.93	L1	OFF	19.9

EUT Information

Report NO : 482308
 Test Mode : Mode 2
 Test Voltage : Power From System
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	37.12	55.88	18.76	N	OFF	19.8
0.152250	48.74	---	65.88	17.14	N	OFF	19.8
0.242250	---	27.97	52.02	24.05	N	OFF	19.8
0.242250	37.82	---	62.02	24.20	N	OFF	19.8
0.384000	---	35.60	48.19	12.59	N	OFF	19.8
0.384000	45.15	---	58.19	13.04	N	OFF	19.8
0.408750	---	35.79	47.67	11.88	N	OFF	19.8
0.408750	46.84	---	57.67	10.83	N	OFF	19.8
0.433500	---	33.07	47.19	14.12	N	OFF	19.8
0.433500	43.79	---	57.19	13.40	N	OFF	19.8
0.465000	---	27.85	46.60	18.75	N	OFF	19.8
0.465000	40.87	---	56.60	15.73	N	OFF	19.8
3.437250	---	20.68	46.00	25.32	N	OFF	19.8
3.437250	26.55	---	56.00	29.45	N	OFF	19.8
23.039250	---	30.93	50.00	19.07	N	OFF	20.1
23.039250	35.27	---	60.00	24.73	N	OFF	20.1



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Jesse Wang, Stan Hsieh, and Ken Wu	Temperature :	21.5 ~ 24.1℃
		Relative Humidity :	54.8 ~ 68.2%

C1. Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 15	2400-2483.5	1	802.11b	01	2412	1Mbps	-	-
Mode 16	2400-2483.5	1	802.11b	06	2437	1Mbps	-	-
Mode 17	2400-2483.5	1	802.11b	11	2462	1Mbps	-	-
Mode 18	2400-2483.5	1	802.11g	01	2412	6Mbps	-	-
Mode 19	2400-2483.5	1	802.11g	06	2437	6Mbps	-	-
Mode 20	2400-2483.5	1	802.11g	11	2462	6Mbps	-	-
Mode 21	2400-2483.5	1	802.11ax HE20	01	2412	MCS0	Full RU	-
Mode 22	2400-2483.5	1	802.11ax HE20	06	2437	MCS0	Full RU	-
Mode 23	2400-2483.5	1	802.11ax HE20	11	2462	MCS0	Full RU	-
Mode 24	2400-2483.5	1	802.11ax HE20	01	2412	MCS0	26/0 RU	-
Mode 25	2400-2483.5	1	802.11ax HE20	01	2412	MCS0	52/37 RU	-
Mode 26	2400-2483.5	1	802.11ax HE20	01	2412	MCS0	106/53 RU	-
Mode 27	2400-2483.5	1	802.11ax HE20	06	2437	MCS0	26/4 RU	-
Mode 28	2400-2483.5	1	802.11ax HE20	06	2437	MCS0	52/38 RU	-
Mode 29	2400-2483.5	1	802.11ax HE20	06	2437	MCS0	106/53 RU	-
Mode 30	2400-2483.5	1	802.11ax HE20	11	2462	MCS0	26/8 RU	-
Mode 31	2400-2483.5	1	802.11ax HE20	11	2462	MCS0	52/40 RU	-
Mode 32	2400-2483.5	1	802.11ax HE20	11	2462	MCS0	106/54 RU	-
Mode 33	2400-2483.5	1	802.11g	01	2412	6Mbps	-	SHF
Mode 34	2400-2483.5	1	802.11g	01	2412	6Mbps	-	LF

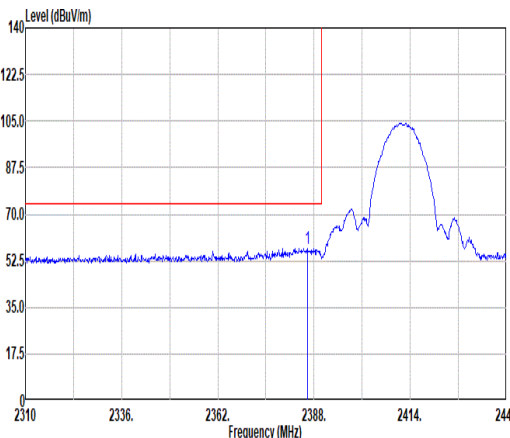
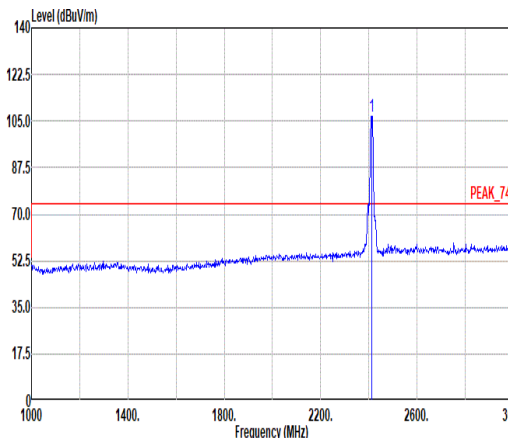
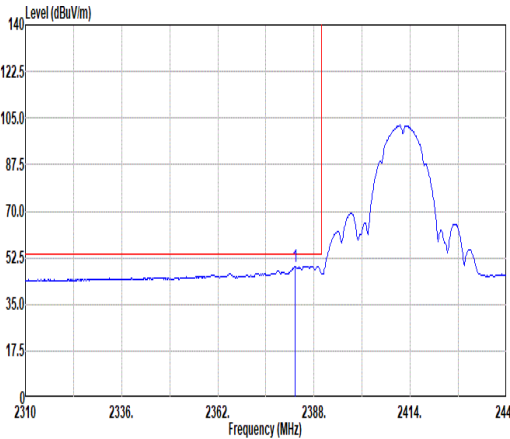
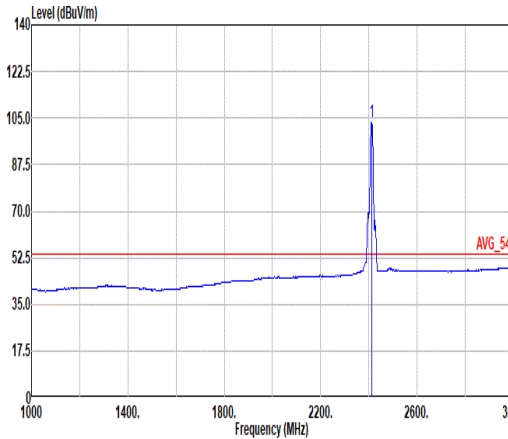
C2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
15	802.11b	1	2382.93	49.32	54	-4.68	H	Avg.	Pass	-	Band Edge
	802.11b	1	4824	52.73	54	-1.27	V	Avg.	Pass	-	Harmonic
16	802.11b	6	2485.01	48.29	54	-5.71	H	Avg.	Pass	-	Band Edge
	802.11b	6	4874	53.07	54	-0.93	V	Avg.	Pass	-	Harmonic
17	802.11b	11	2484.72	48.95	54	-5.05	H	Avg.	Pass	-	Band Edge
	802.11b	11	4924	52.87	54	-1.13	V	Avg.	Pass	-	Harmonic
18	802.11g	1	2389.95	53.82	54	-0.18	H	Avg.	Pass	-	Band Edge
	802.11g	1	4020	41.2	54	-12.8	H	Avg.	Pass	-	Harmonic
19	802.11g	6	2484.06	48.57	54	-5.43	H	Avg.	Pass	-	Band Edge
	802.11g	6	4874	42.07	54	-11.93	V	Avg.	Pass	-	Harmonic
20	802.11g	11	2483.66	52.98	54	-1.02	H	Avg.	Pass	-	Band Edge
	802.11g	11	4924	40.1	54	-13.9	V	Avg.	Pass	-	Harmonic
21	802.11ax HE20	1	2389.56	53.28	54	-0.72	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	1	4824	40.4	54	-13.6	V	Avg.	Pass	Full RU	Harmonic
22	802.11ax HE20	6	2483.81	49.91	54	-4.09	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	6	4874	42.07	54	-11.93	V	Avg.	Pass	Full RU	Harmonic
23	802.11ax HE20	11	2483.7	53.42	54	-0.58	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	11	4924	40.16	54	-13.84	V	Avg.	Pass	Full RU	Harmonic
24	802.11ax HE20	1	2389.69	52.78	54	-1.22	H	Avg.	Pass	26/0 RU	Band Edge
	802.11ax HE20	1	4035	49.49	54	-4.51	H	Avg.	Pass	26/0 RU	Harmonic
25	802.11ax HE20	1	2385.79	52.38	54	-1.62	H	Avg.	Pass	52/37 RU	Band Edge
	802.11ax HE20	1	4035	46	54	-8	H	Avg.	Pass	52/37 RU	Harmonic
26	802.11ax HE20	1	2389.95	53.71	54	-0.29	H	Avg.	Pass	106/53 RU	Band Edge
	802.11ax HE20	1	4824	43.73	54	-10.27	V	Avg.	Pass	106/53 RU	Harmonic
27	802.11ax HE20	6	2491.94	48.45	54	-5.55	H	Avg.	Pass	26/4 RU	Band Edge
	802.11ax HE20	6	4874	48.73	54	-5.27	V	Avg.	Pass	26/4 RU	Harmonic
28	802.11ax HE20	6	2483.75	48.56	54	-5.44	H	Avg.	Pass	52/38 RU	Band Edge
	802.11ax HE20	6	4874	48.31	54	-5.69	V	Avg.	Pass	52/38 RU	Harmonic
29	802.11ax HE20	6	2484.63	48.63	54	-5.37	H	Avg.	Pass	106/53 RU	Band Edge
	802.11ax HE20	6	4874	43.52	54	-10.48	V	Avg.	Pass	106/53 RU	Harmonic

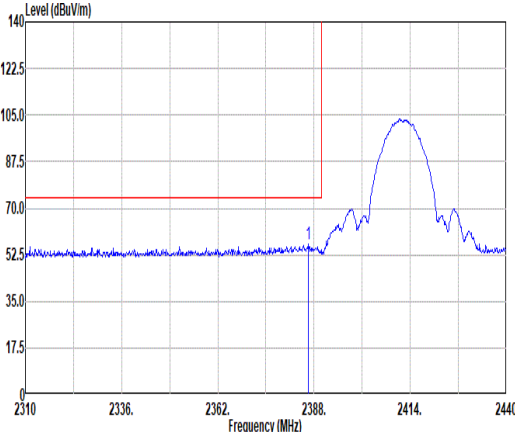
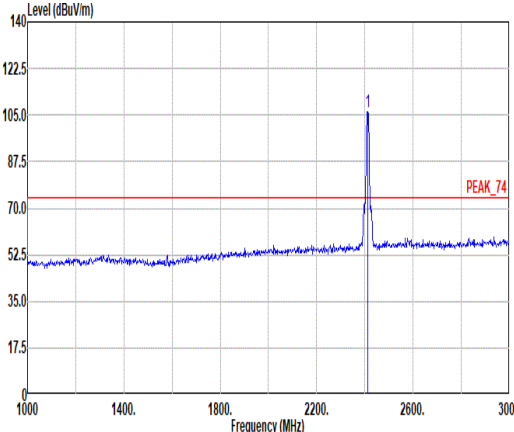
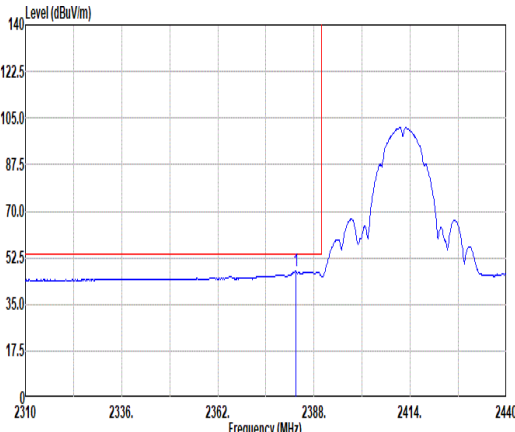
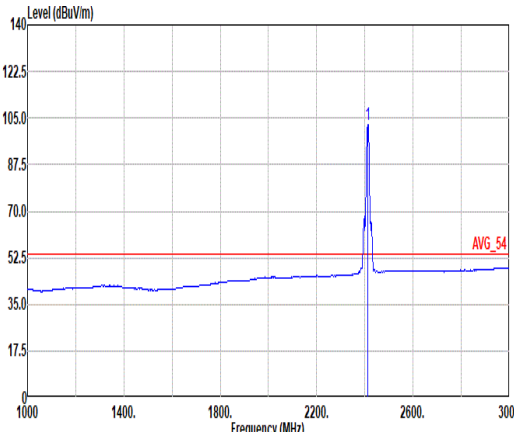


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
30	802.11ax HE20	11	2496.09	51.14	54	-2.86	H	Avg.	Pass	26/8 RU	Band Edge
	802.11ax HE20	11	4924	41.71	54	-12.29	V	Avg.	Pass	26/8 RU	Harmonic
31	802.11ax HE20	11	2483.58	48.72	54	-5.28	H	Avg.	Pass	52/40 RU	Band Edge
	802.11ax HE20	11	4924	41.66	54	-12.34	V	Avg.	Pass	52/40 RU	Harmonic
32	802.11ax HE20	11	2484.23	53.6	54	-0.4	H	Avg.	Pass	106/54 RU	Band Edge
	802.11ax HE20	11	4924	41.3	54	-12.7	V	Avg.	Pass	106/54 RU	Harmonic
33	SHF	1	24867	38.4	74	-35.6	H	Peak	Pass	-	SHF
34	LF	1	203.63	36.7	43.5	-6.8	H	Peak	Pass	-	LF



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Avg	 Site : 03CH07-HY Condition: AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.240kHz 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>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>2382.93</td><td>49.32</td><td>54.00</td><td>-4.68</td><td>33.29</td><td>32.10</td><td>8.35</td><td>34.32</td><td>9.90</td><td>400</td><td>201</td><td>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	2382.93	49.32	54.00	-4.68	33.29	32.10	8.35	34.32	9.90	400	201	AVERAGE	 Site : 03CH07-HY Condition: AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.240kHz 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>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>2412.00</td><td>103.59</td><td>-----</td><td>-----</td><td>87.50</td><td>32.10</td><td>8.40</td><td>34.31</td><td>9.90</td><td>400</td><td>201</td><td>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	2412.00	103.59	-----	-----	87.50	32.10	8.40	34.31	9.90	400	201	AVERAGE
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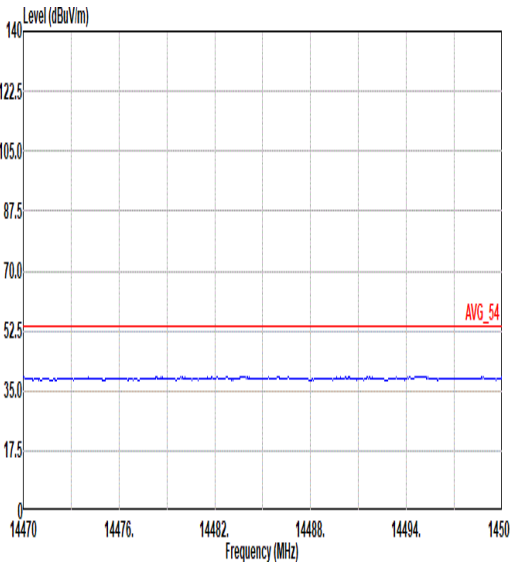
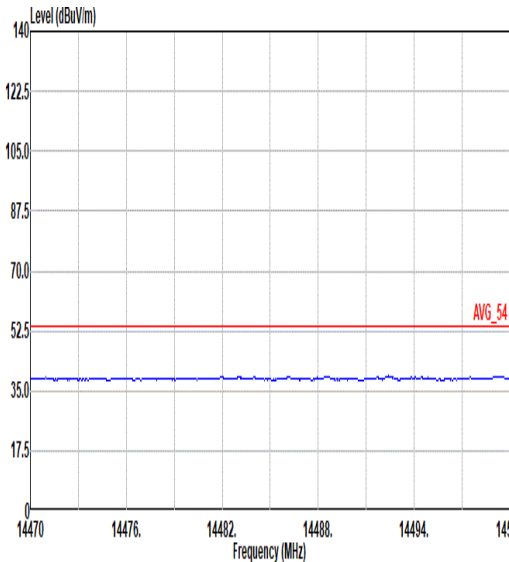
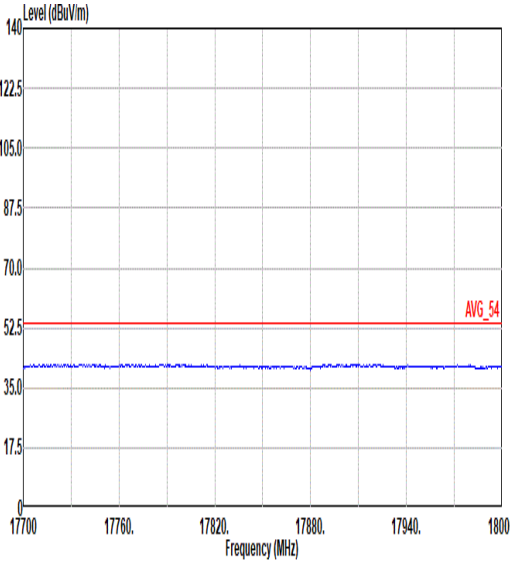
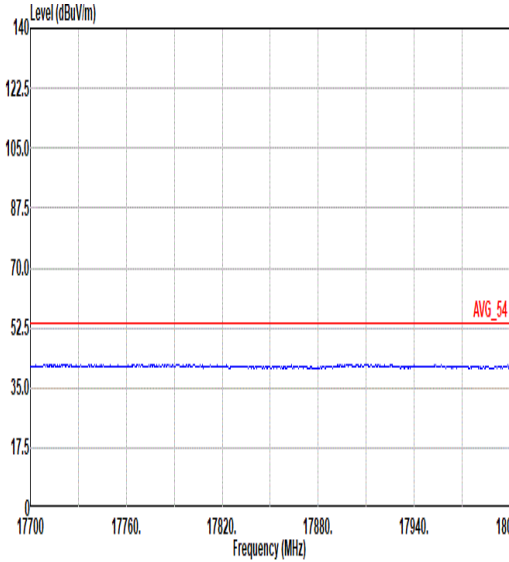


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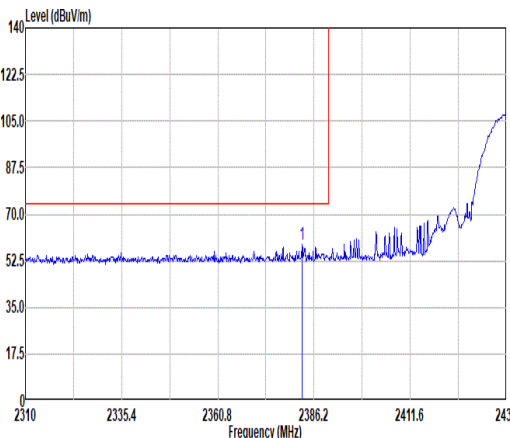
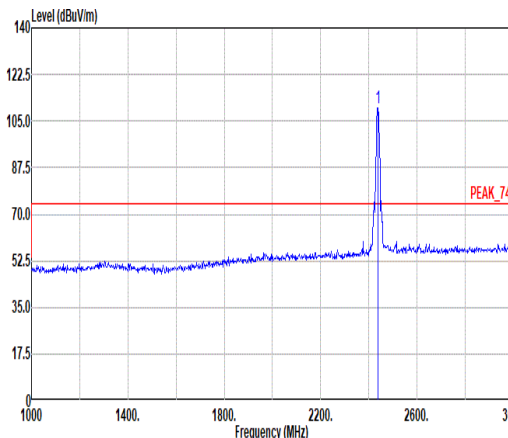
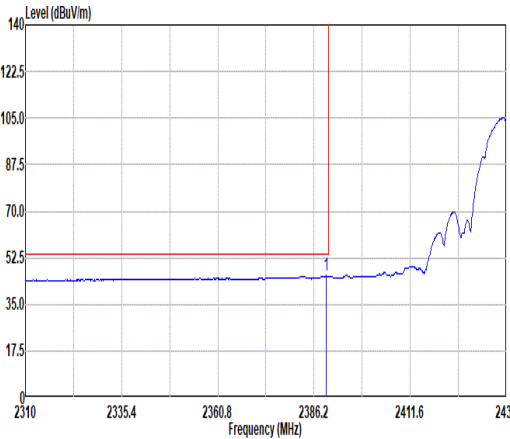
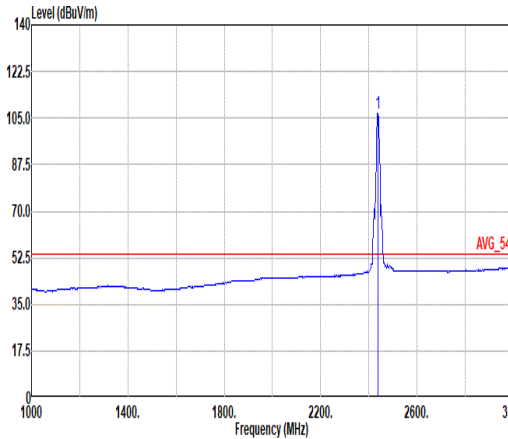


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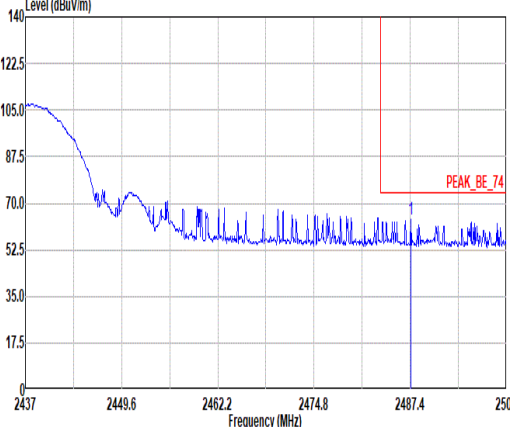
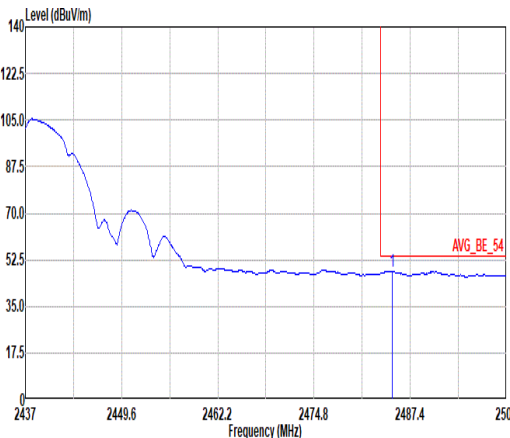


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Mode	2400-2483.5_802.11b_CH01_2412MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH07-HY Condition: AVG_54 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition: AVG_54 3m HF_ANT_00075962 VERTICAL
	 Site : 03CH07-HY Condition: AVG_54 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition: AVG_54 3m HF_ANT_00075962 VERTICAL

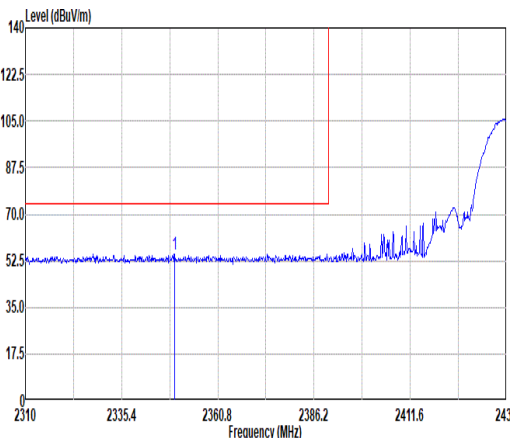
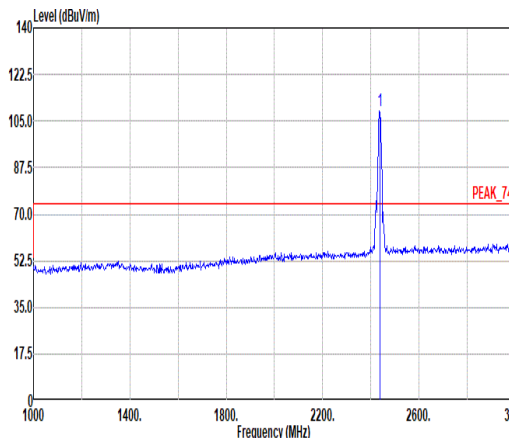
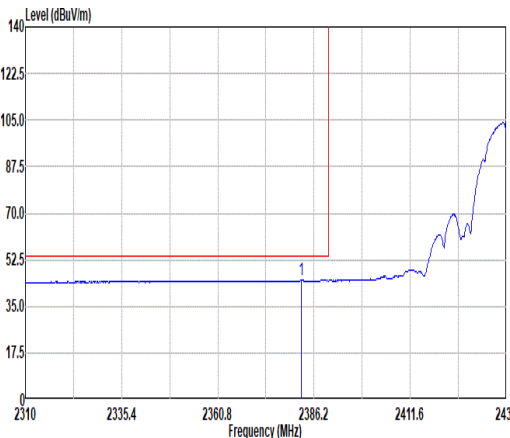
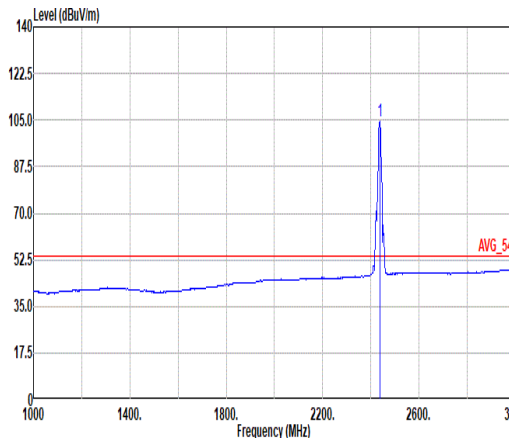


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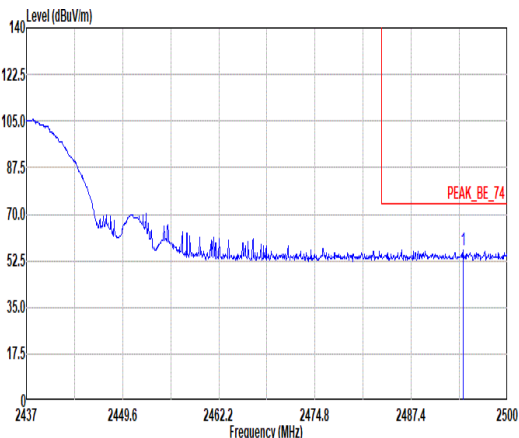
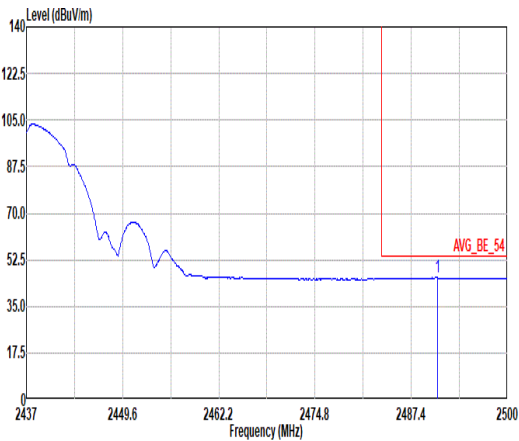


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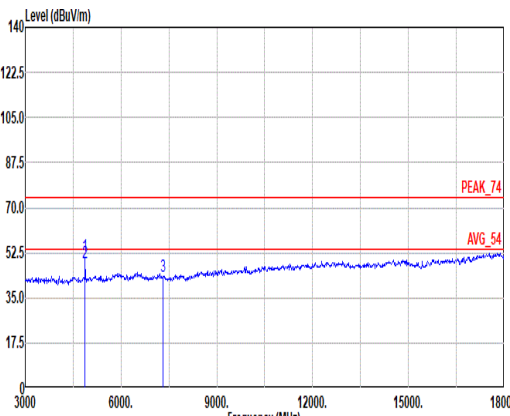
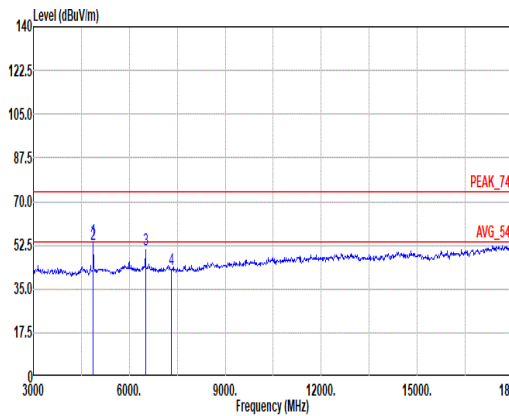


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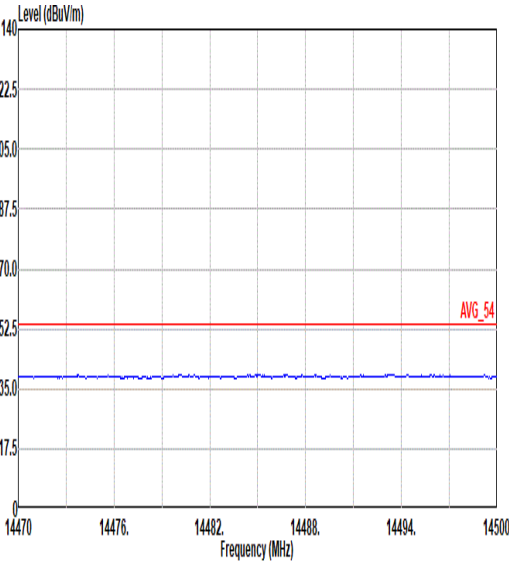
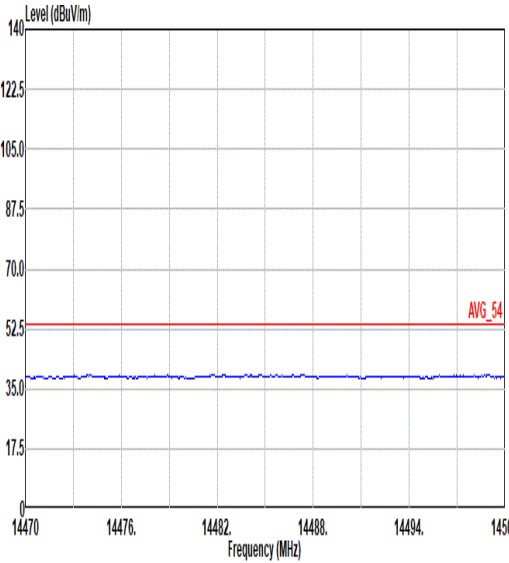
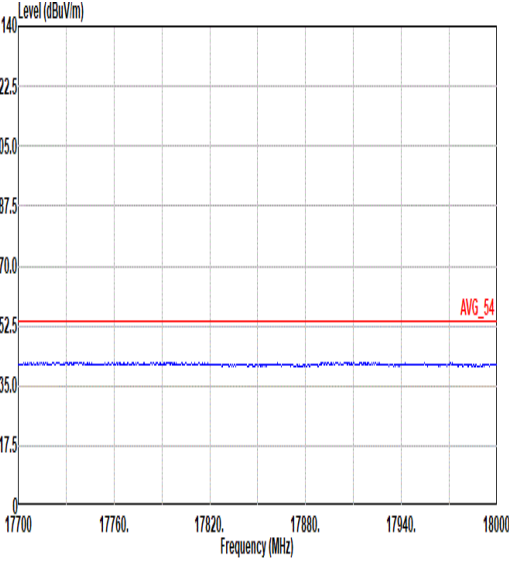
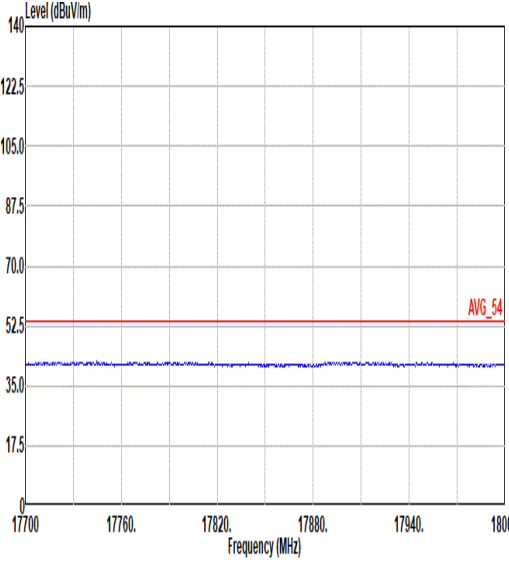


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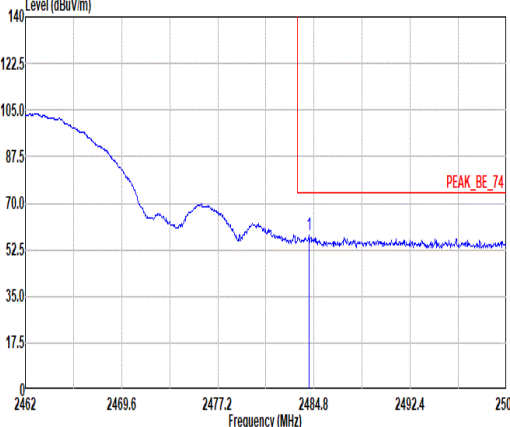
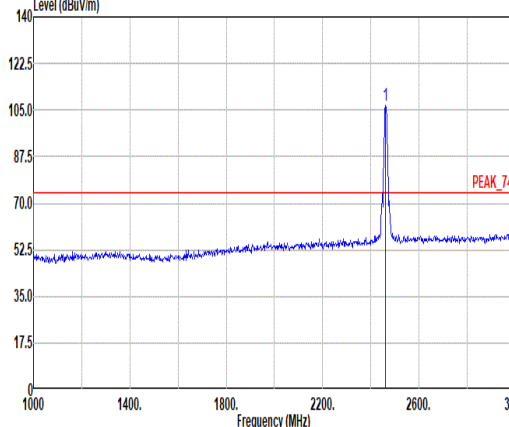
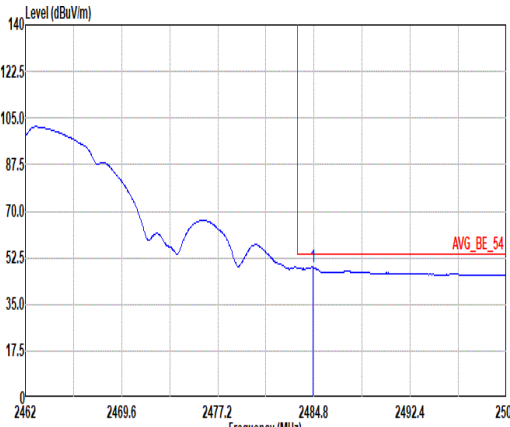
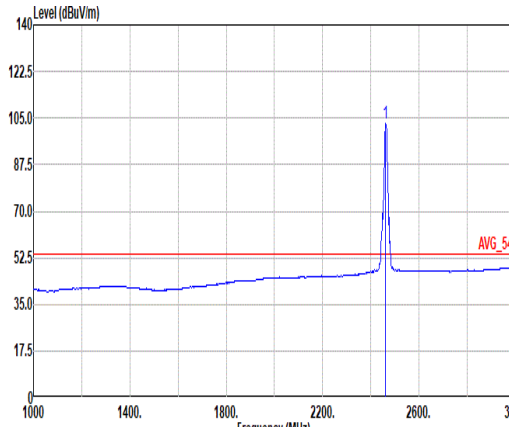


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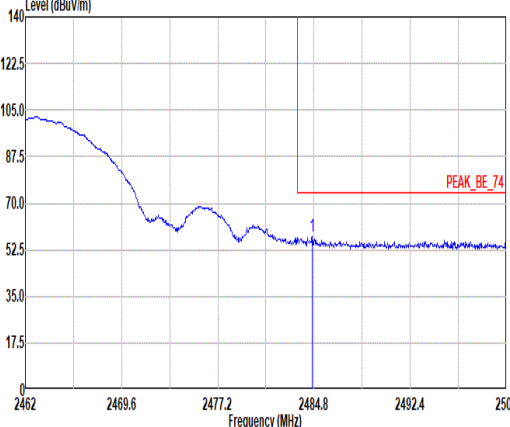
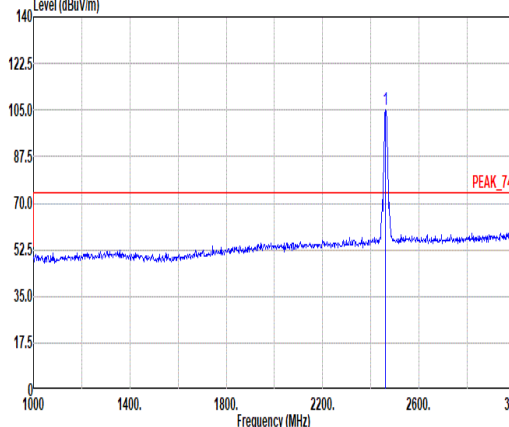
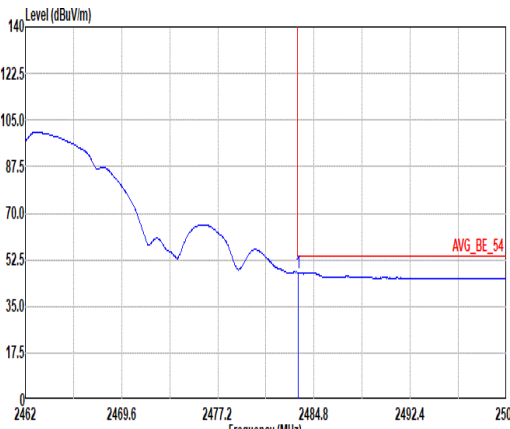
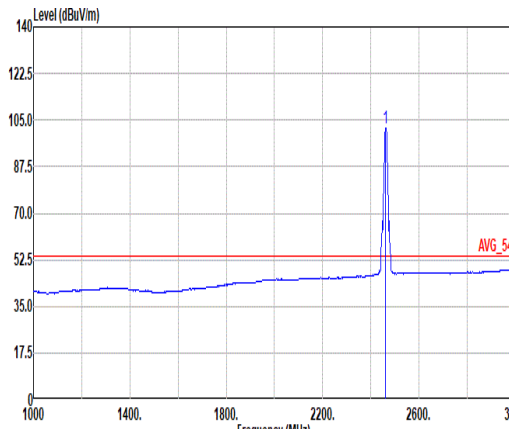


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Pol.	Horizontal	Vertical
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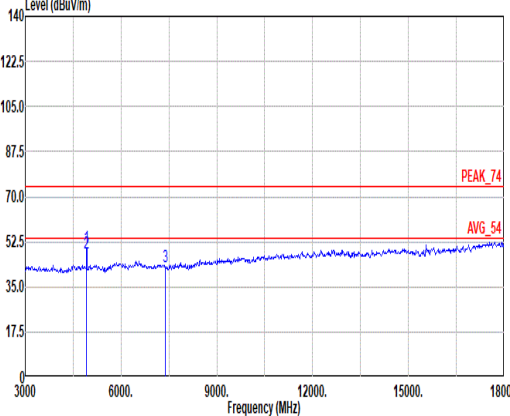
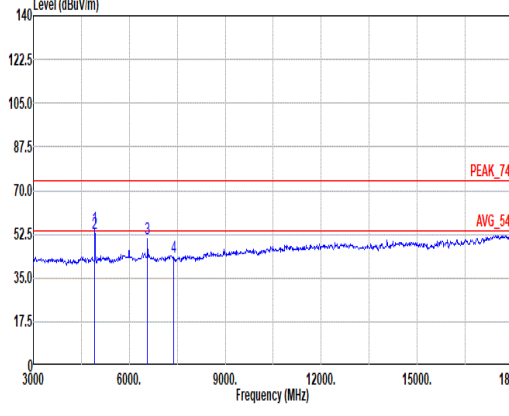


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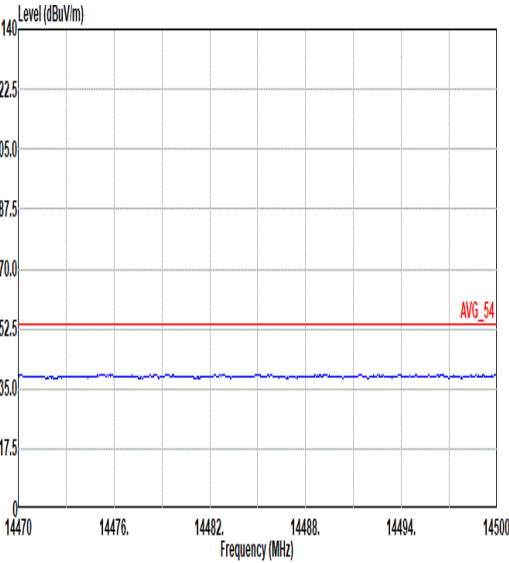
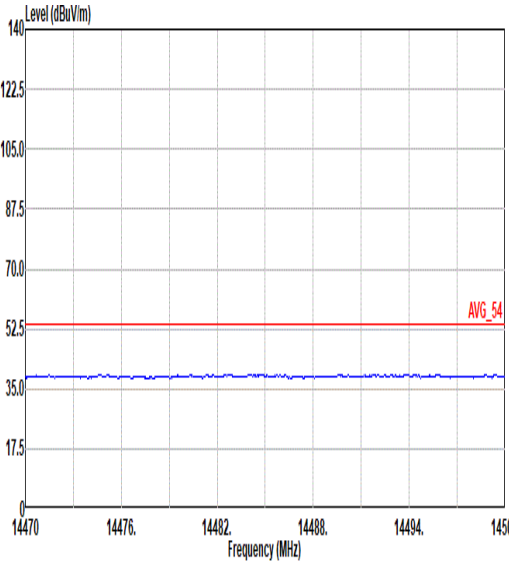
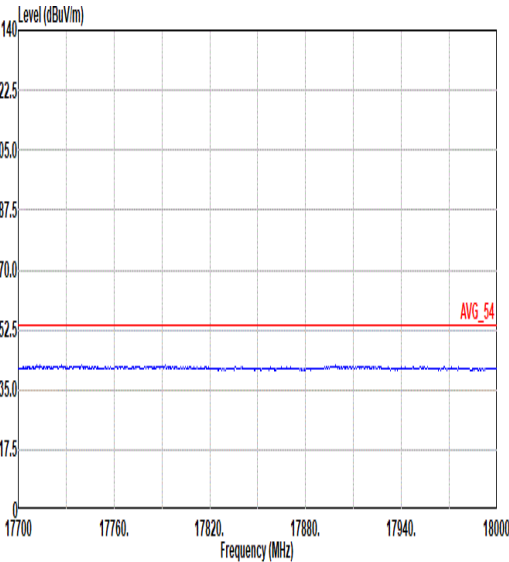
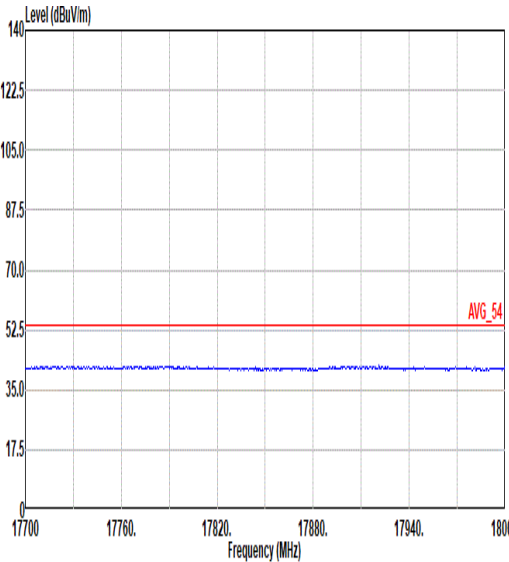


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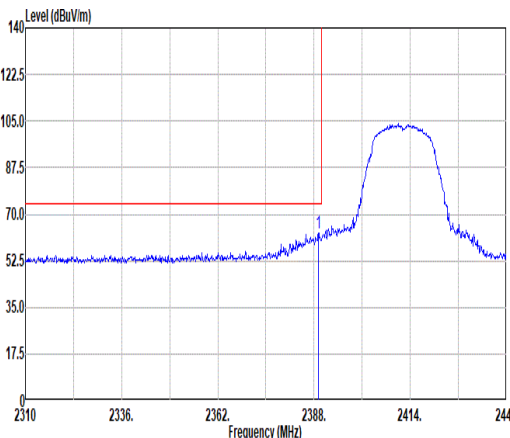
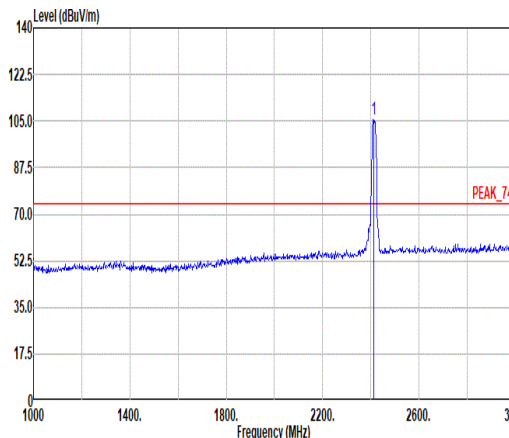
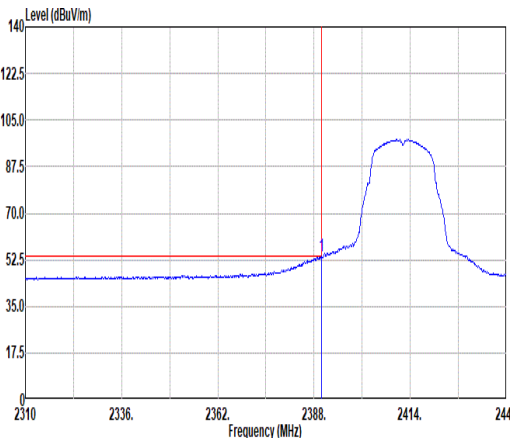
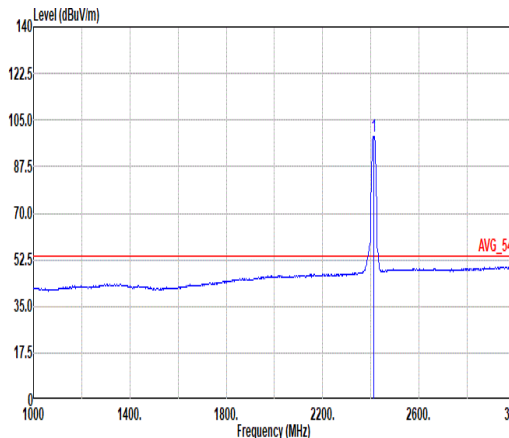


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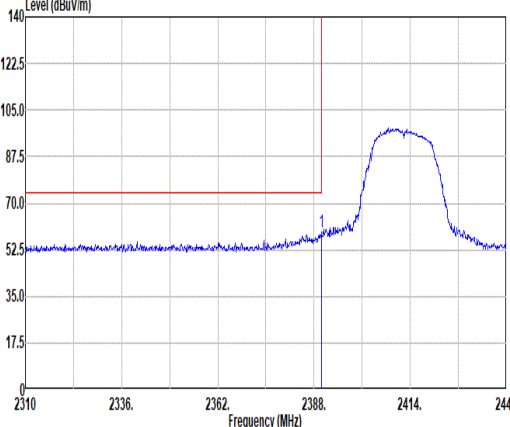
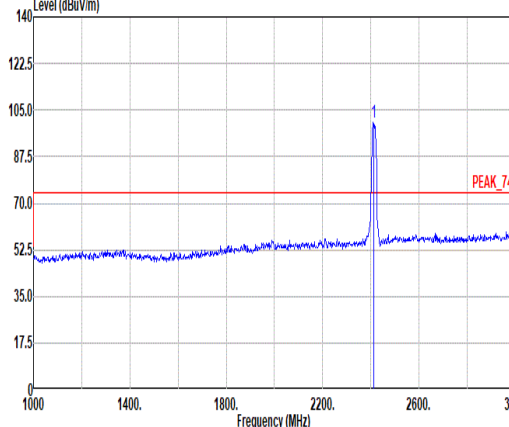
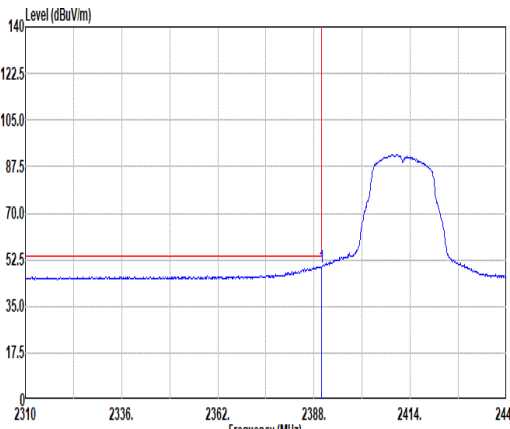
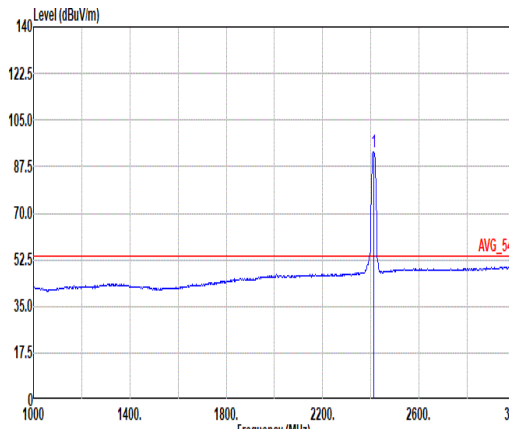


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Pol.	Horizontal	Vertical
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