



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2453-3, XT2453-4, XT2453-5, XT2453V
FCC ID : IHDT56AR7
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Mar. 05, 2024 ~ Mar. 28, 2024

We, Sporton International Inc. (Shenzhen), 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.

This report contains data that were produced under subcontract by Sporton International Inc. (Kunshan)

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

Sporton International Inc. (ShenZhen)

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People's Republic of China



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APPENDIX C. RADIATED SPURIOUS EMISSION

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	99% Bandwidth	-	Report Only	-
3.2	15.247(b)	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges	≤ 20dBc	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.02 dB at 2388.51 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 13.05 dB at 27.120 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Conformity Assessment Condition:

- 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/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 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.



1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2453-3, XT2453-4, XT2453-5, XT2453V
FCC ID	IHDT56AR7
IMEI Code	Conducted: 358394210025438 Conduction: 358394210030735/358394210030743 Radiation: 358394210030834/358394210030842
HW Version	DVT2
SW Version	U3UC34.22
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The four model names are only for market segment, no other difference.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
Maximum (Peak) Output Power to antenna	<MIMO Ant 5+7> 802.11b : 27.82 dBm (0.6053 W) 802.11g : 29.77 dBm (0.9484 W) 802.11n HT20 : 29.58 dBm (0.9078 W) 802.11n HT40 : 28.34 dBm (0.6823 W) 802.11ax HE20 : 29.69 dBm (0.9311 W) 802.11ax HE40 : 28.42 dBm (0.6950 W)
99% Occupied Bandwidth	<MIMO Ant 5+7> 802.11b : 13.24 MHz 802.11g : 17.83 MHz 802.11ax HE20 : 19.28 MHz 802.11ax HE40 : 38.06 MHz
Antenna Type / Gain	Ant 5 : Metal Antenna type with gain -5.9 dBi Ant 7 : IFA Antenna type with gain -6.8 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)

Note:

1. WLAN 11b/g/n/ax support MIMO CDD mode , and 11n/ax support MIMO Beamforming mode, the maximum EIRP of Beamforming mode will set less than CDD mode, thus full test CDD mode.
2. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to the higher output power.
3. For 802.11n/11ax mode, the whole testing have assessed only 802.11ax HE20/HE40 by referring to the higher output power.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Specification of Accessory

Specification of Accessory				
Battery 1	Brand Name	Motorola	Model Name	QR11
Battery 2	Brand Name	Motorola	Model Name	QR31
USB Cable 1	Brand Name	Motorola(CABLETECH)	Model Name	SC18E05246
USB Cable 2	Brand Name	Motorola(SAIBAO)	Model Name	SC18D86732



1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS	CN1257	314309

Note: Test data subcontracted: conduction test case in section 3.6 of this report

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH03-SZ	CN1256	421272



1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	CO01-KS	AUDIX	E3	6.2009-8-24
2.	03CH03-SZ	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

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

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. 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, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded 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

Final test modes are considering the modulation and worse data rates as below table.

MIMO Antenna

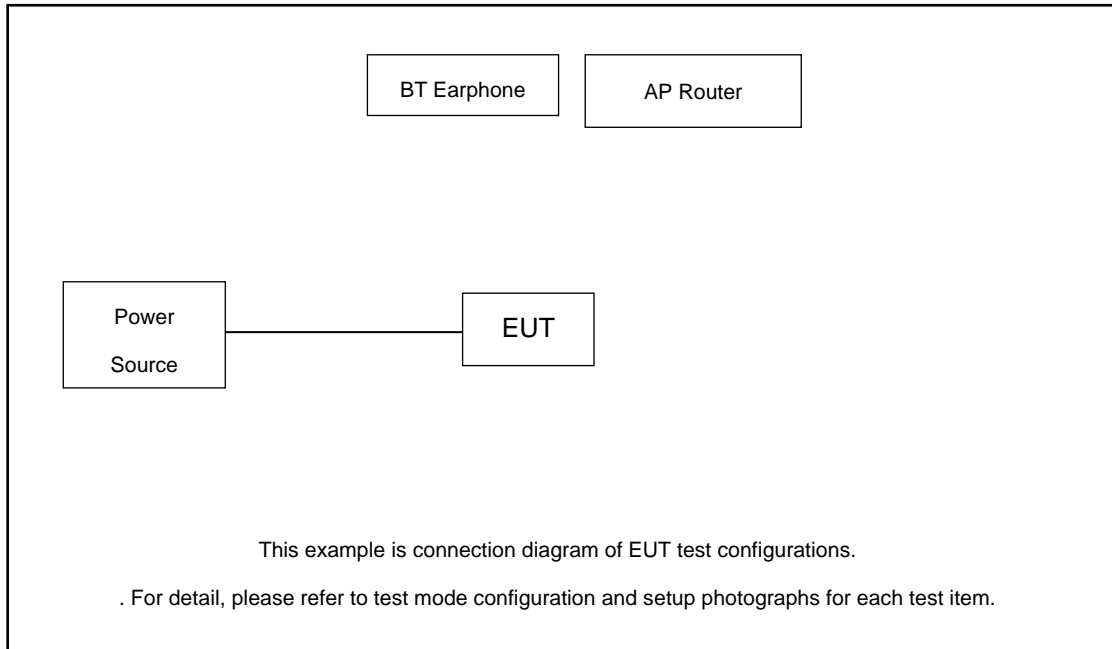
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11ax HE20	MCS0
802.11ax HE40	MCS0

Test Cases	
AC Conducted Emission	Mode 1 :BT Link + WLAN Link(2.4G) + NFC Tx + USB Cable1(Charging From Adaptor)
<p>Remark: For Radiated Test Cases, the EUT is a folding phone, pretest the open status and closed status, only the worst status perform final test and record in the report.</p> <p>For the accessories, pretest standalone mode / Earphone mode / Adapter mode / Wireless charging mode, only the worst status perform final test and record in the report.</p>	

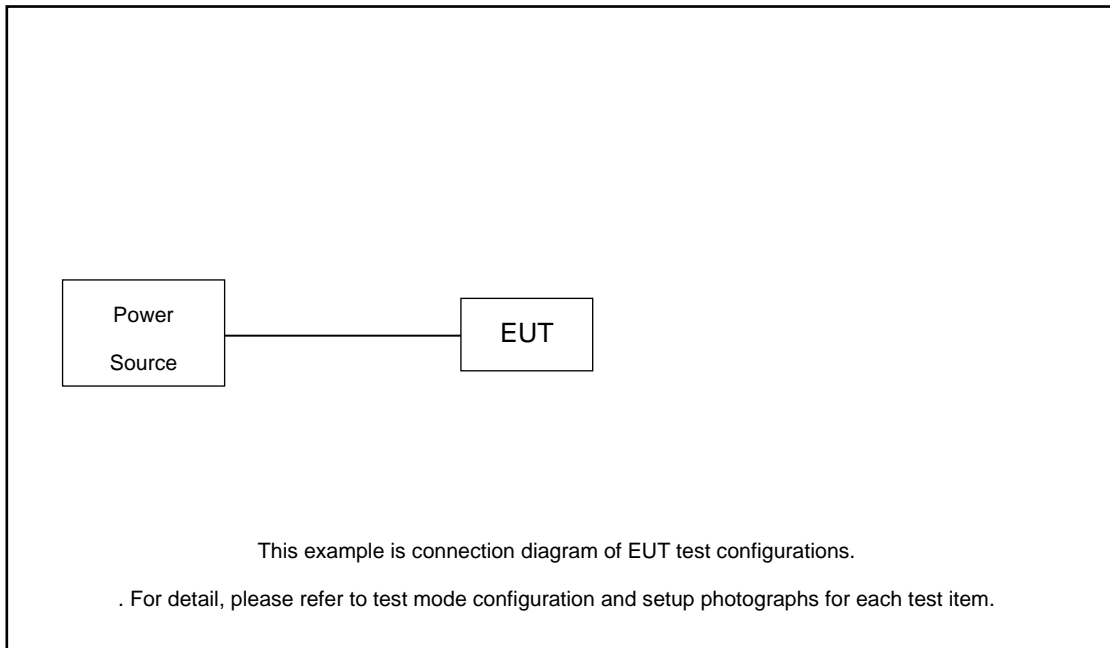
Co-location
5G NR n48 MIMO Link + Bluetooth LE(2 Mbps) CH38_ANT 7_TX + 802.11ax HE40 CH03_ANT 5_TX 5G NR n48 MIMO Link + 802.11ax HE40 CH03_ANT(5+7)_TX

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:





2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A
2.	LTE Base Station	Anritus	MT8821C	N/A	N/A	Unshielded, 1.8m
3.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	Unshielded AC I/P cable 1.8m
4.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded, 1.8m
5.	AC Adapter	Moto	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

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.

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}.$$

Following shows an offset computation example with cable loss 1.30 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 1.30 + 10 = 11.30 \text{ (dB)} \end{aligned}$$

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

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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) = 1%~5% of OBW and set the Video bandwidth (VBW) = 3MHz.
6. Measure and record the results in the test report.

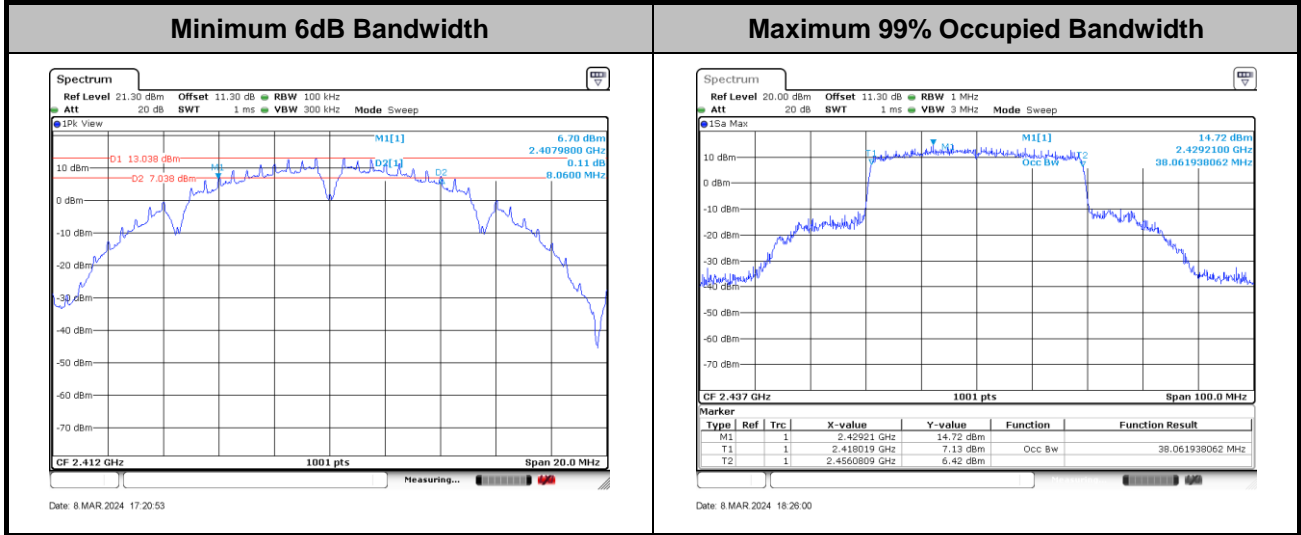
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



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

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi 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 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

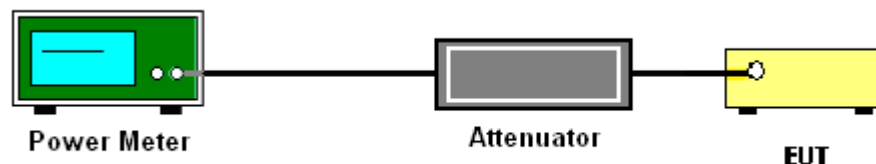
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

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 8dBm in any 3kHz band at any time interval of continuous transmission.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

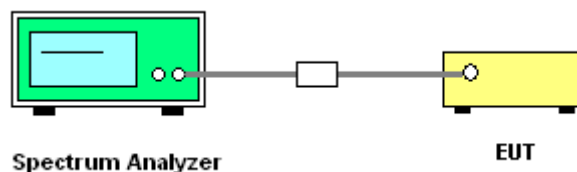
3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01:

Method (c): Measure and add $10 \log(N_{ANT})$ dB, where N_{ANT} is the number of outputs.

The measurement on each individual output were performed with the same span and number on each individual output. The quantity $10 \log(N_{ANT})$ dB is added to each spectrum value before comparing to the emission limit.

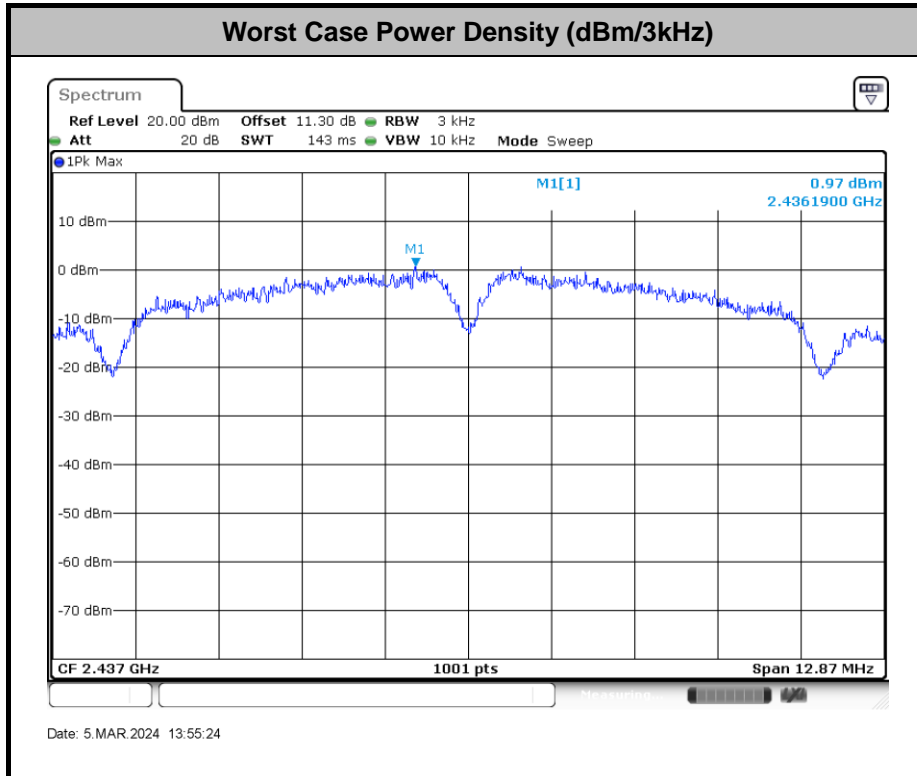
3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

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

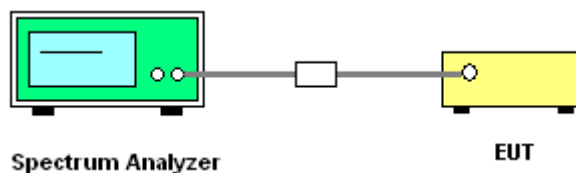
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.11
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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



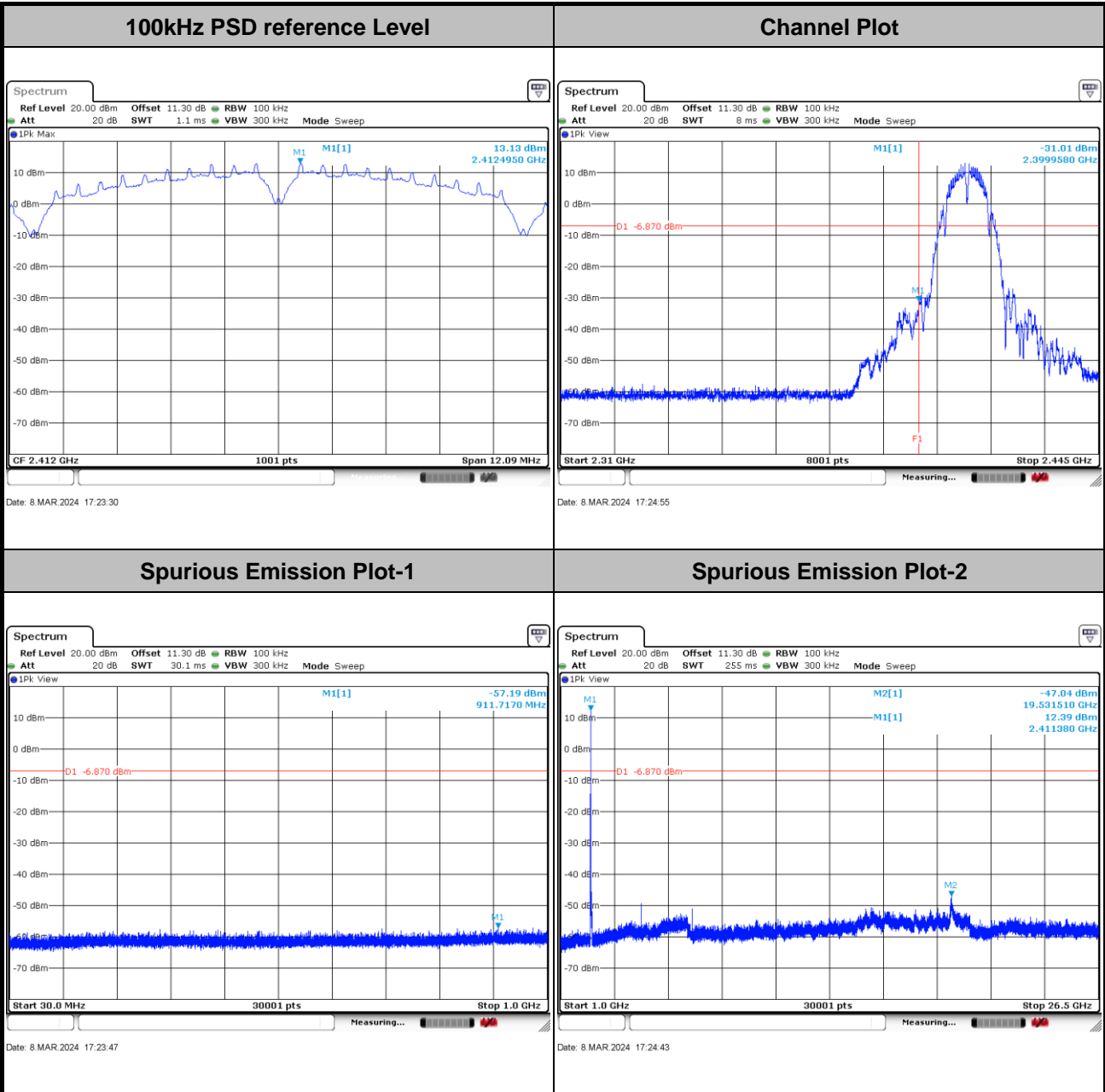


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer : Sam Zheng	Temperature :	24~26°C
	Relative Humidity :	50~53%

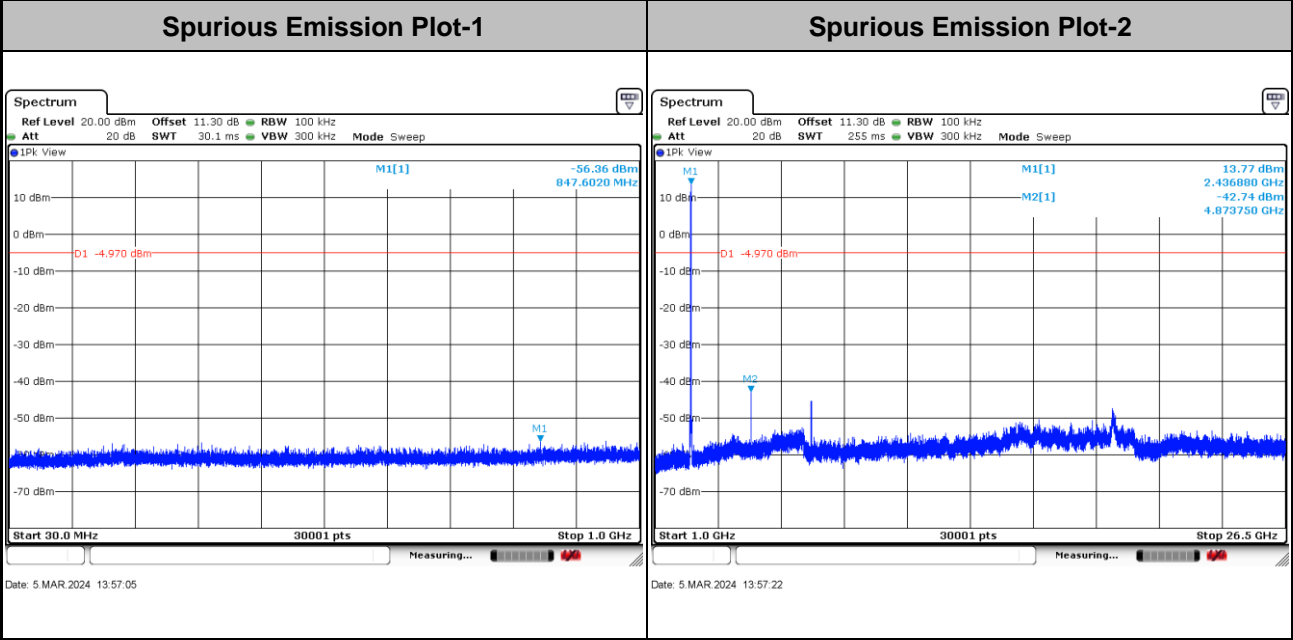
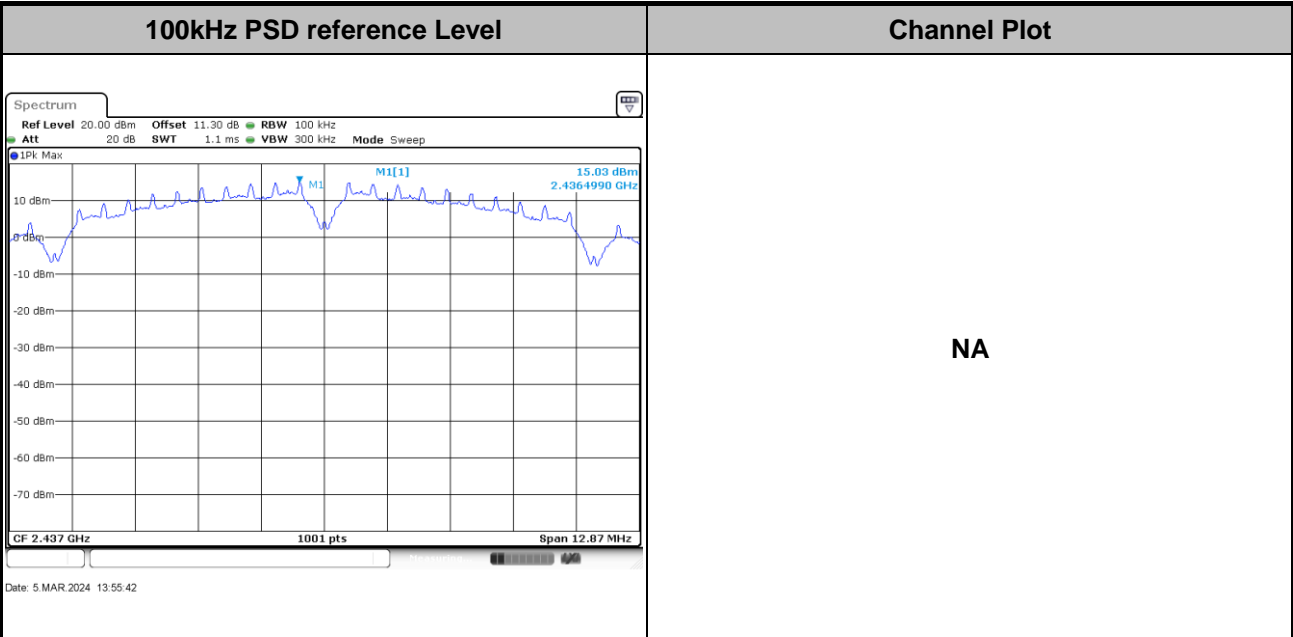
Number of TX = 2, Ant. 5 (Measured)

Test Mode :	802.11b	Test Channel :	01
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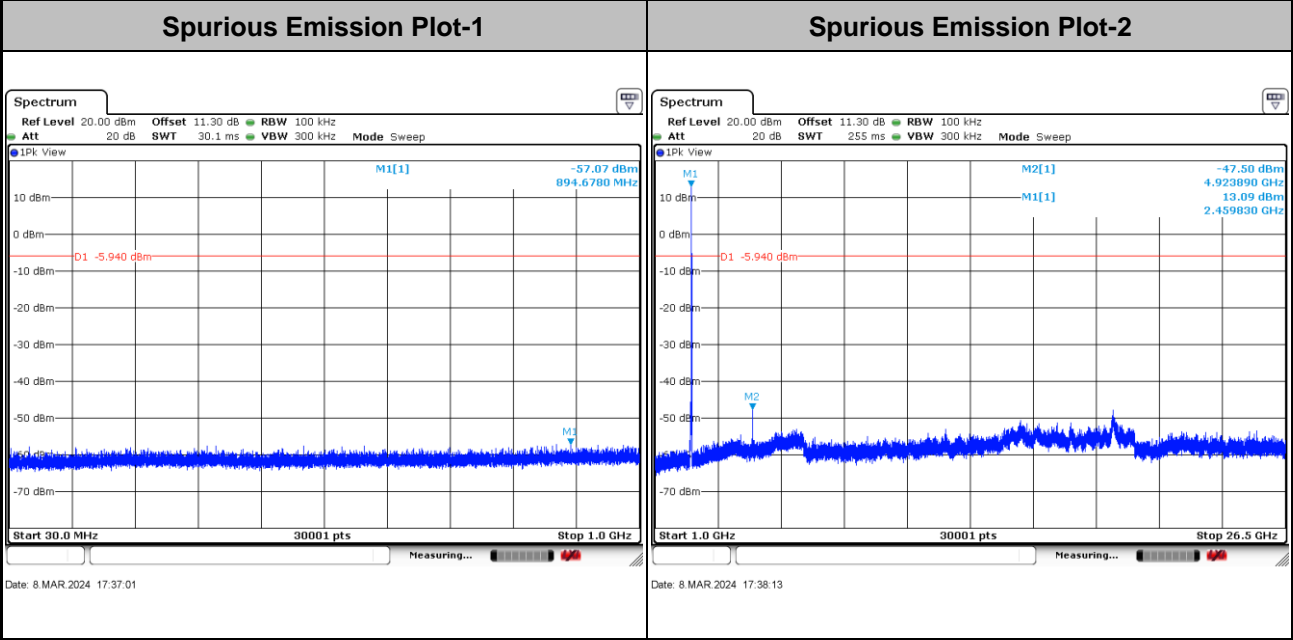
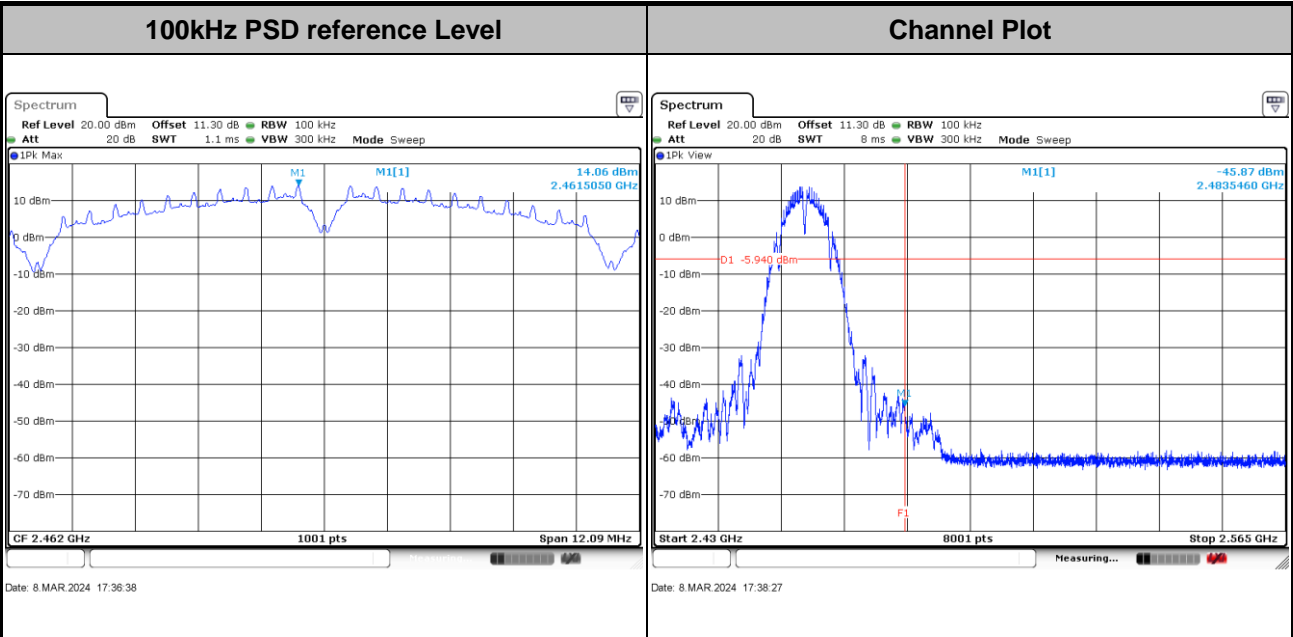


Test Mode :	802.11b	Test Channel :	06
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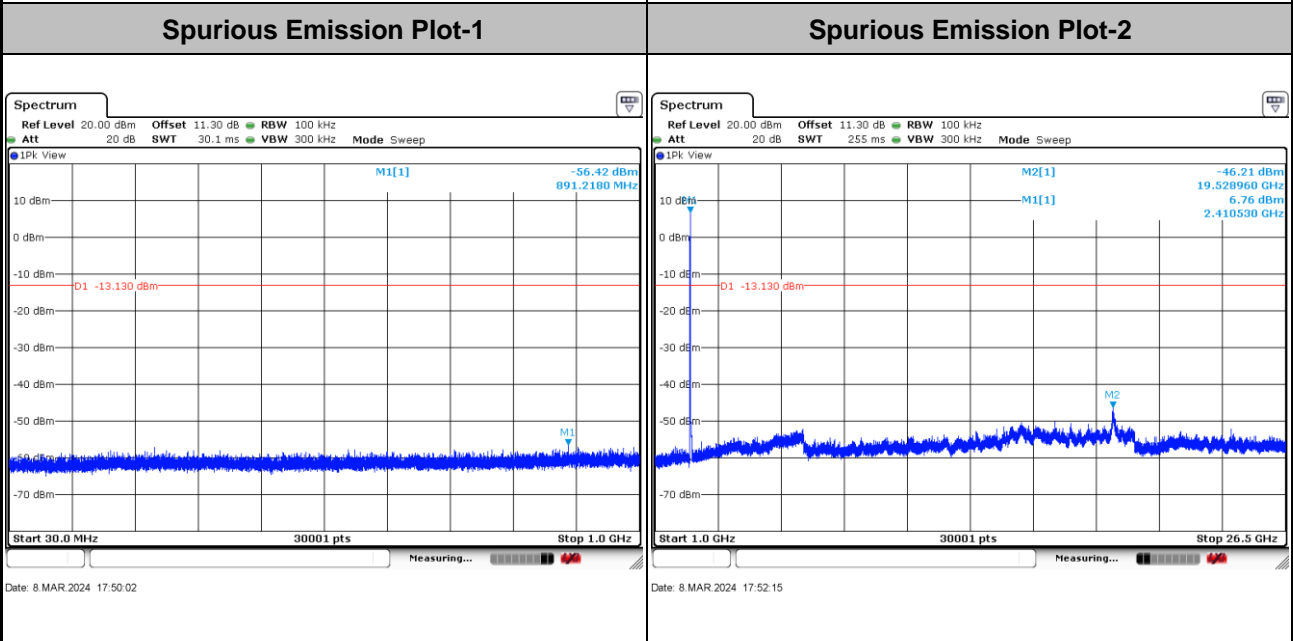
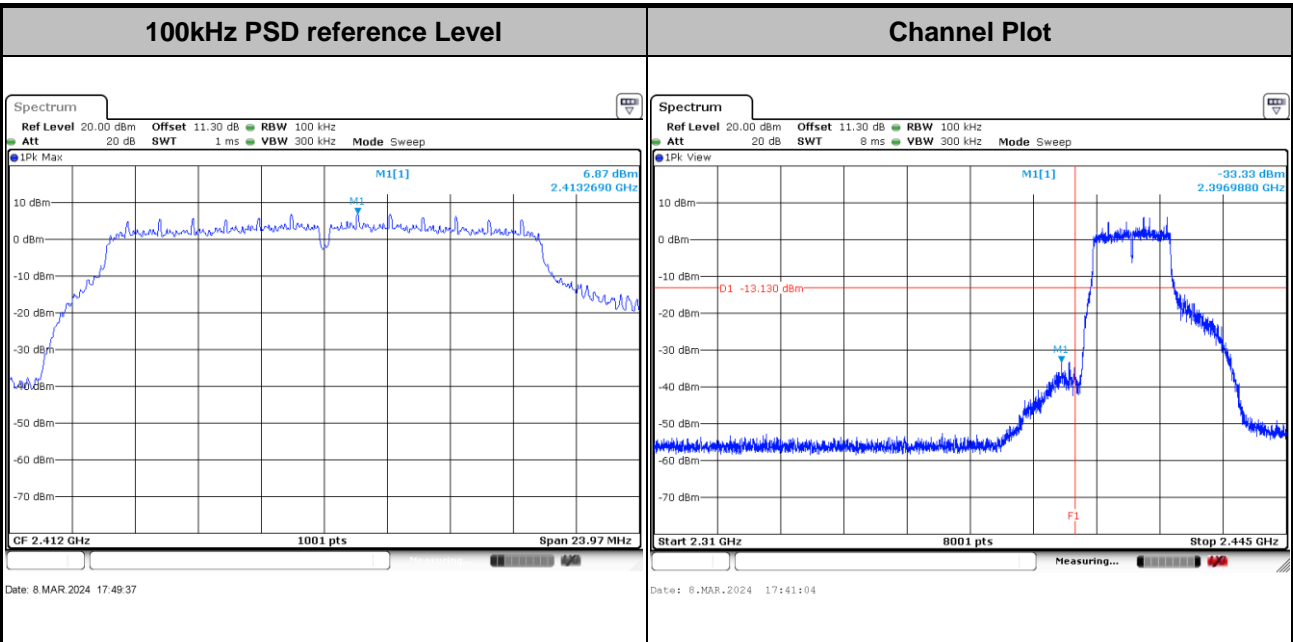


Test Mode :	802.11b	Test Channel :	11
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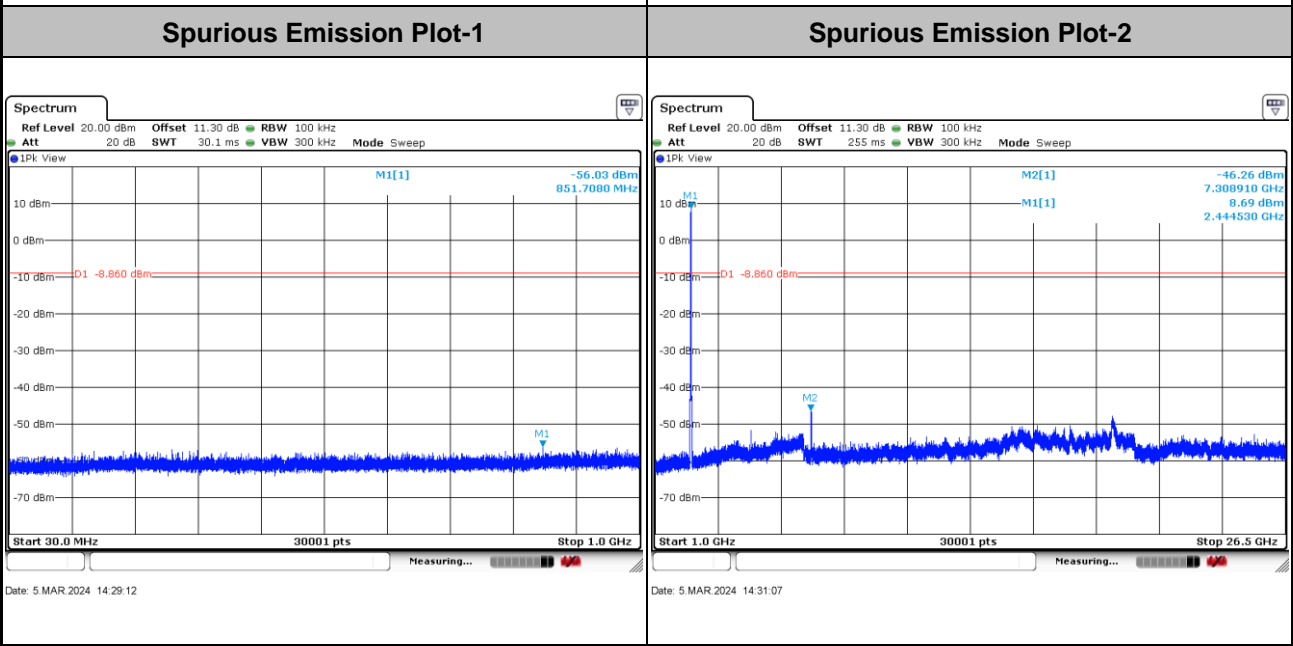
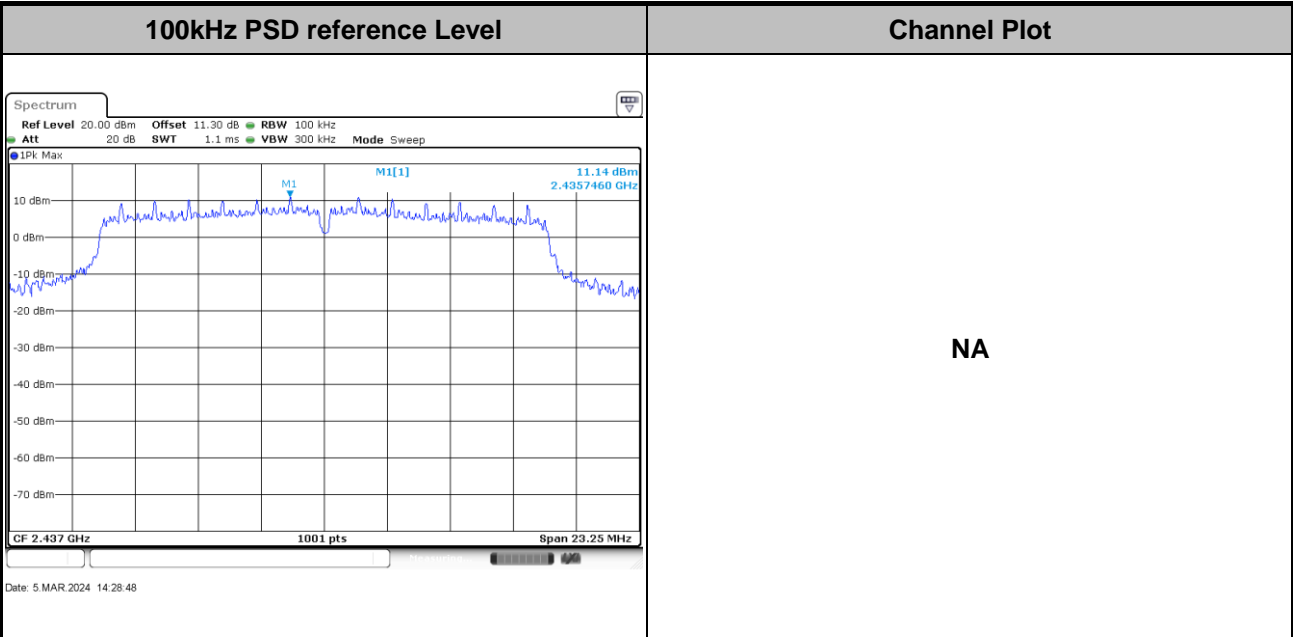


Test Mode : 802.11g Test Channel : 01



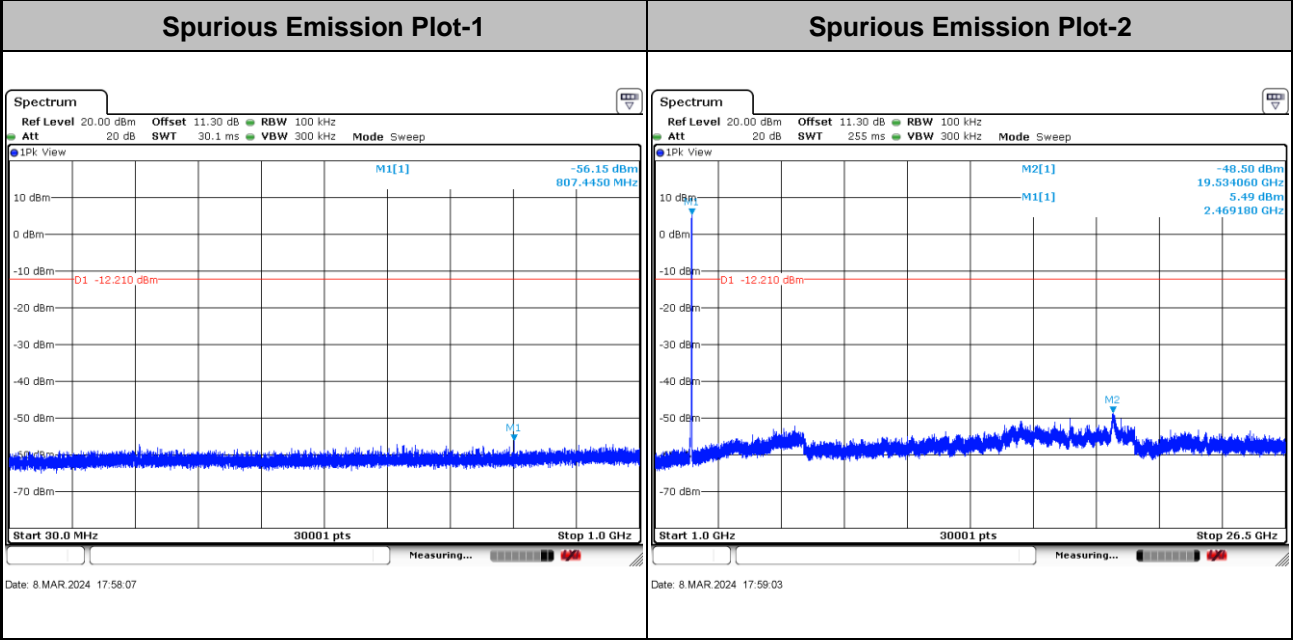
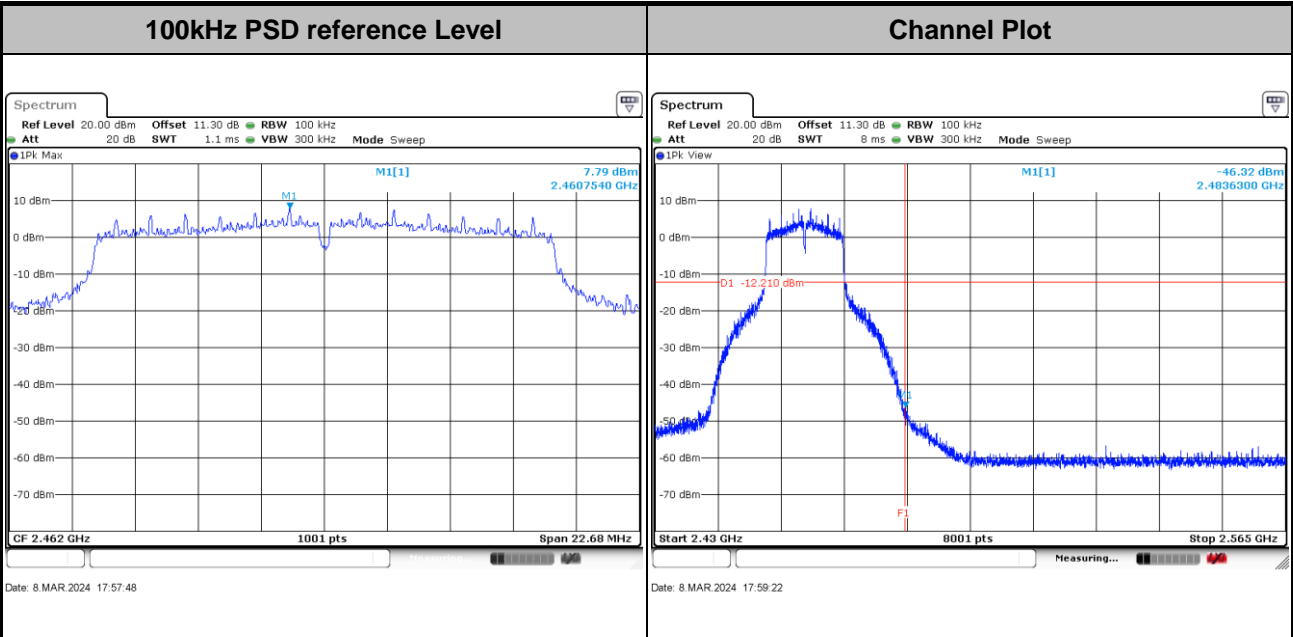


Test Mode :	802.11g	Test Channel :	06
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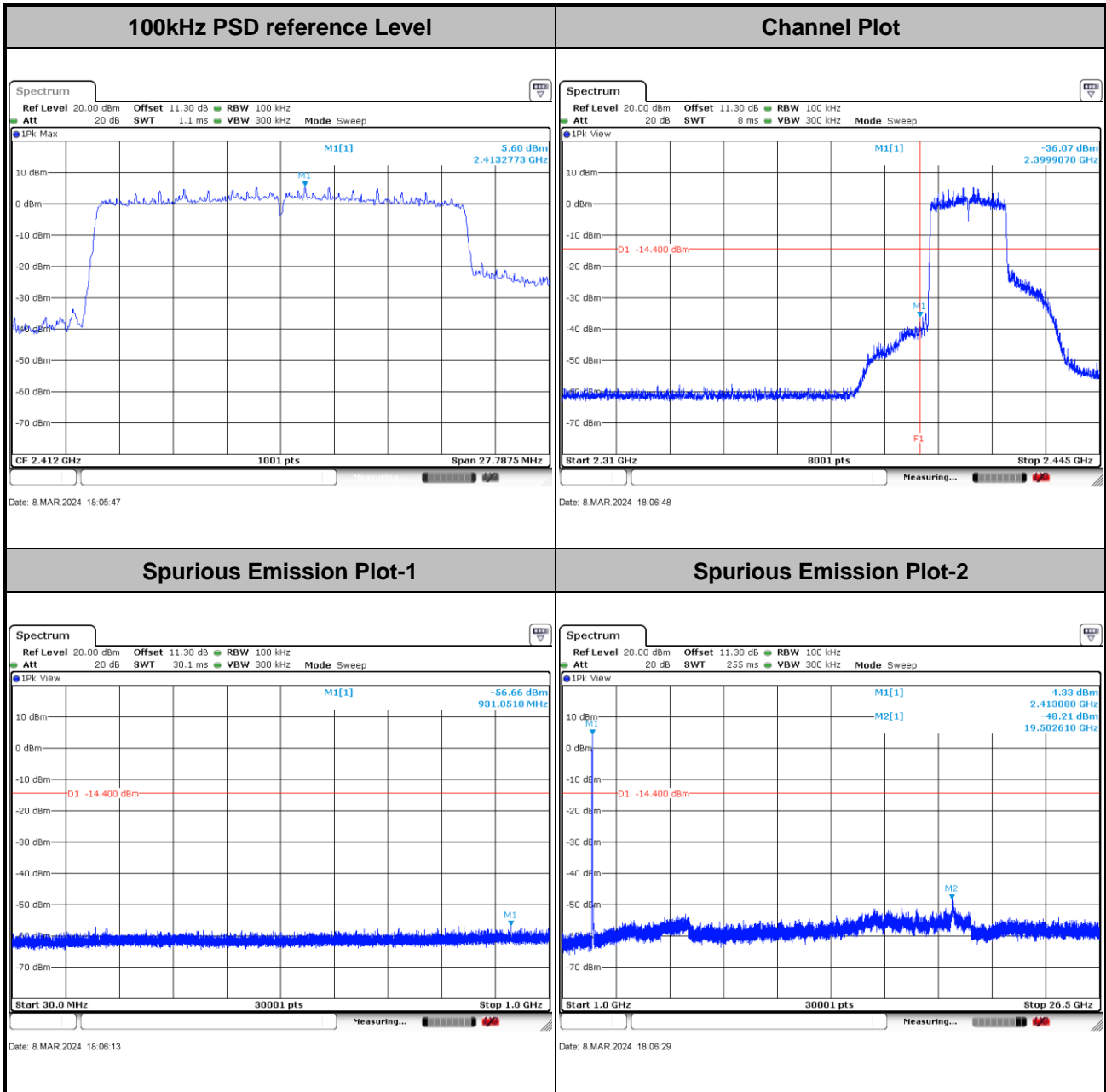


Test Mode : 802.11g Test Channel : 11



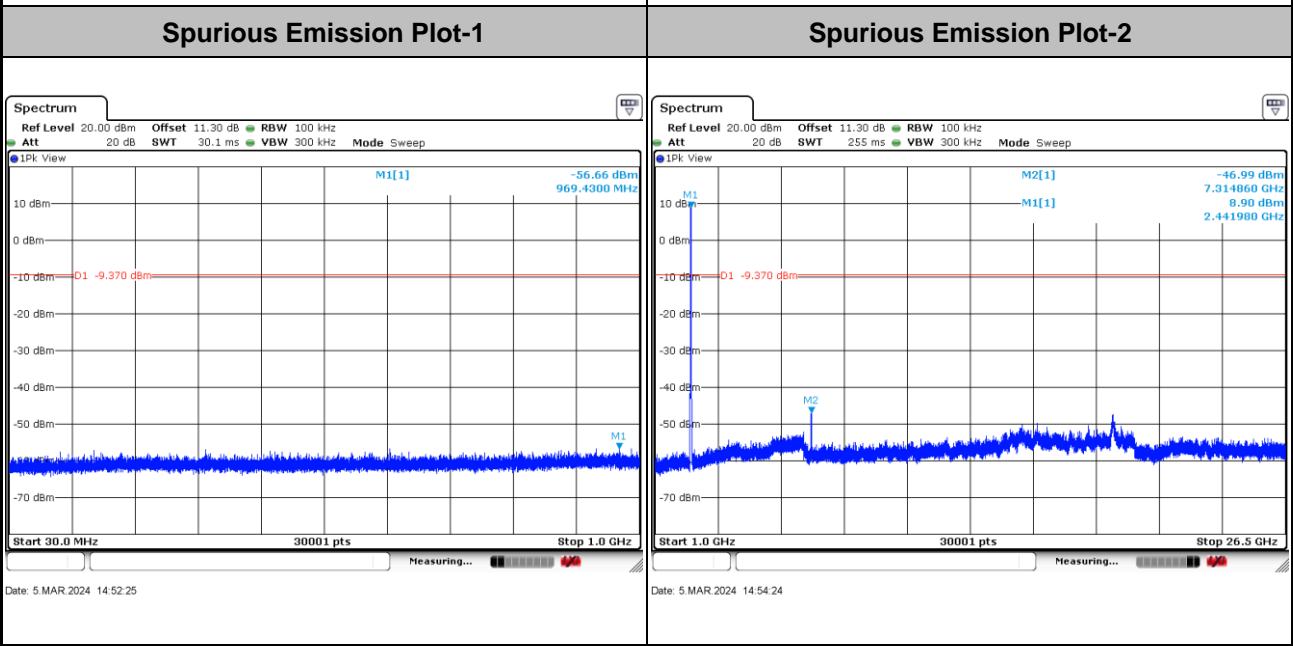
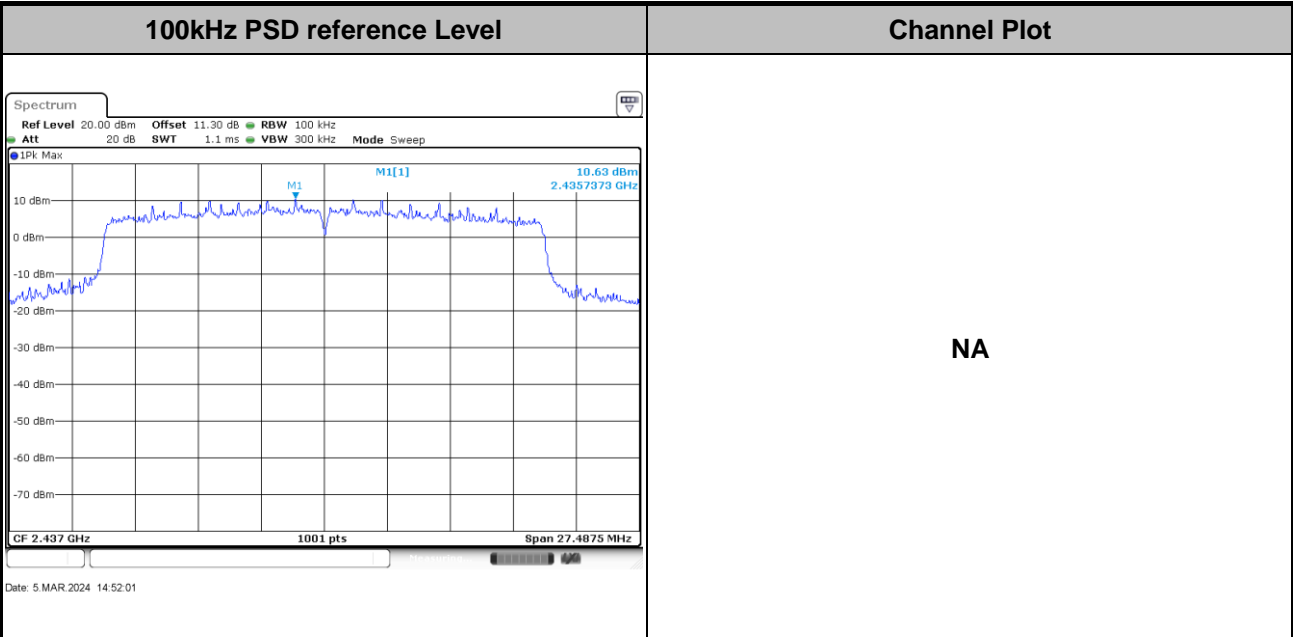


Test Mode :	802.11ax HE20	Test Channel :	01
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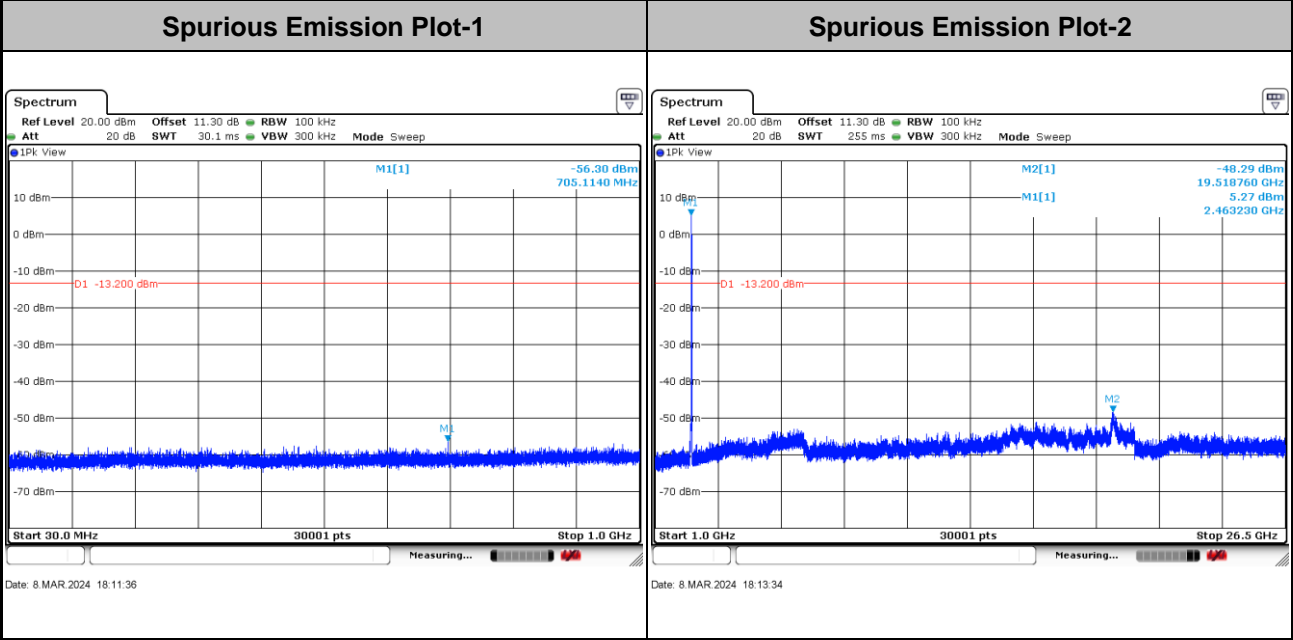
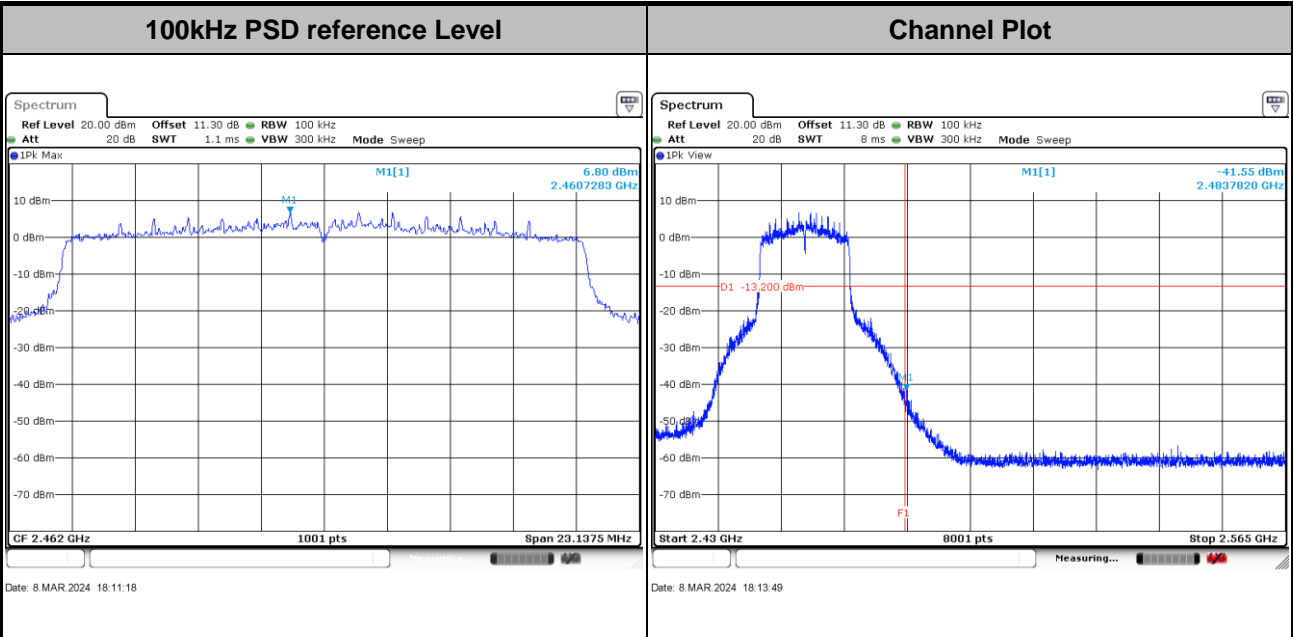


Test Mode :	802.11ax HE20	Test Channel :	06
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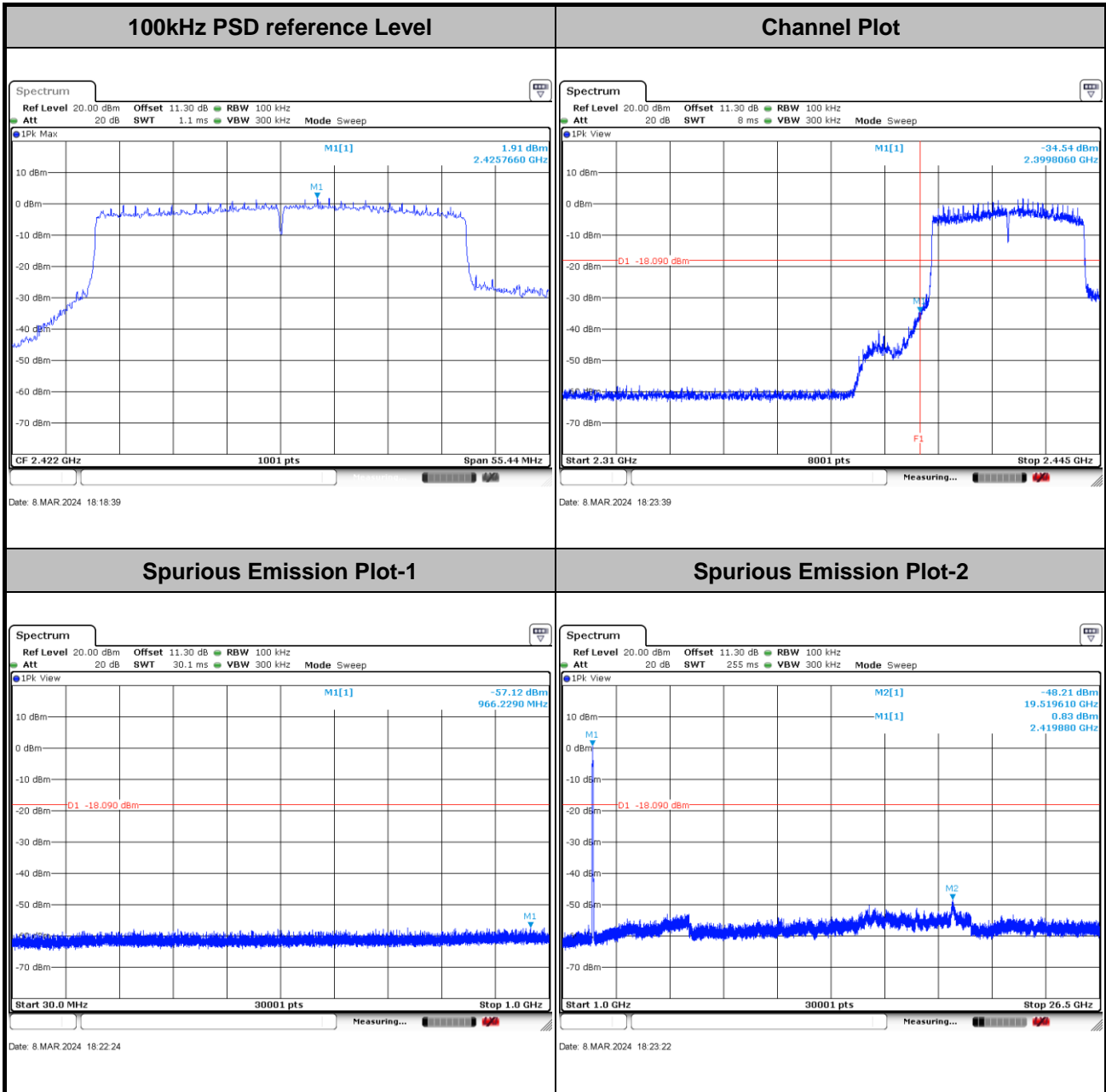


Test Mode : 802.11ax HE20 Test Channel : 11



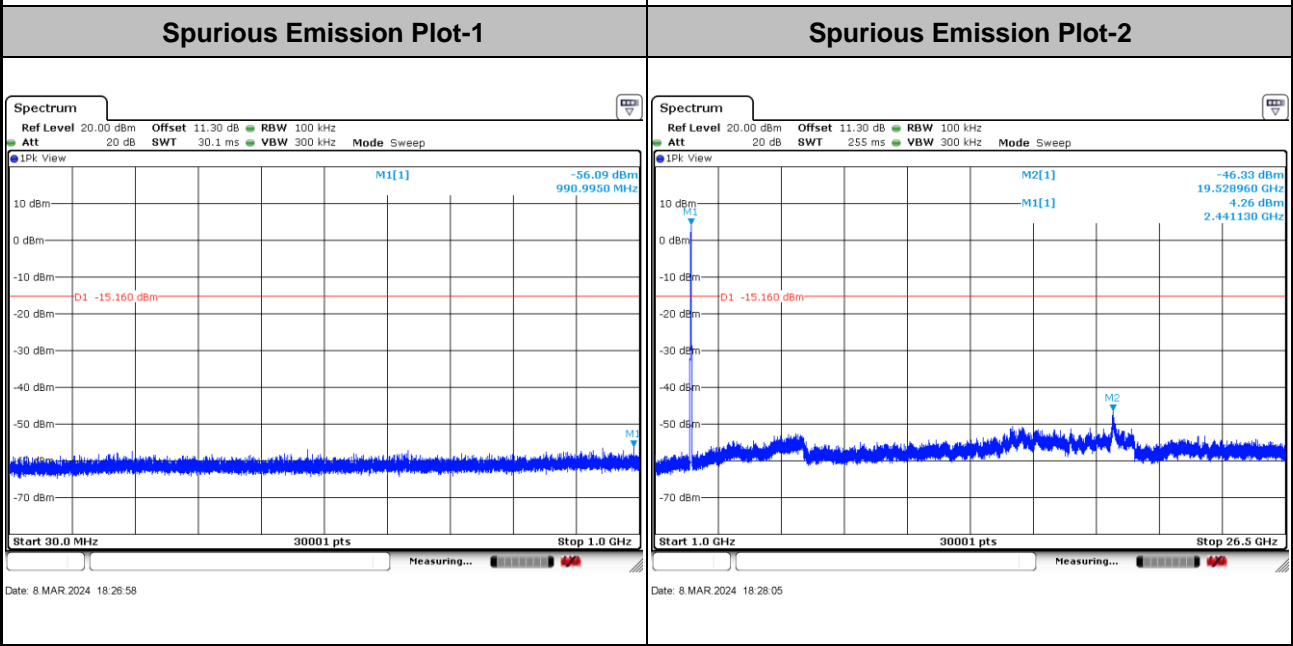
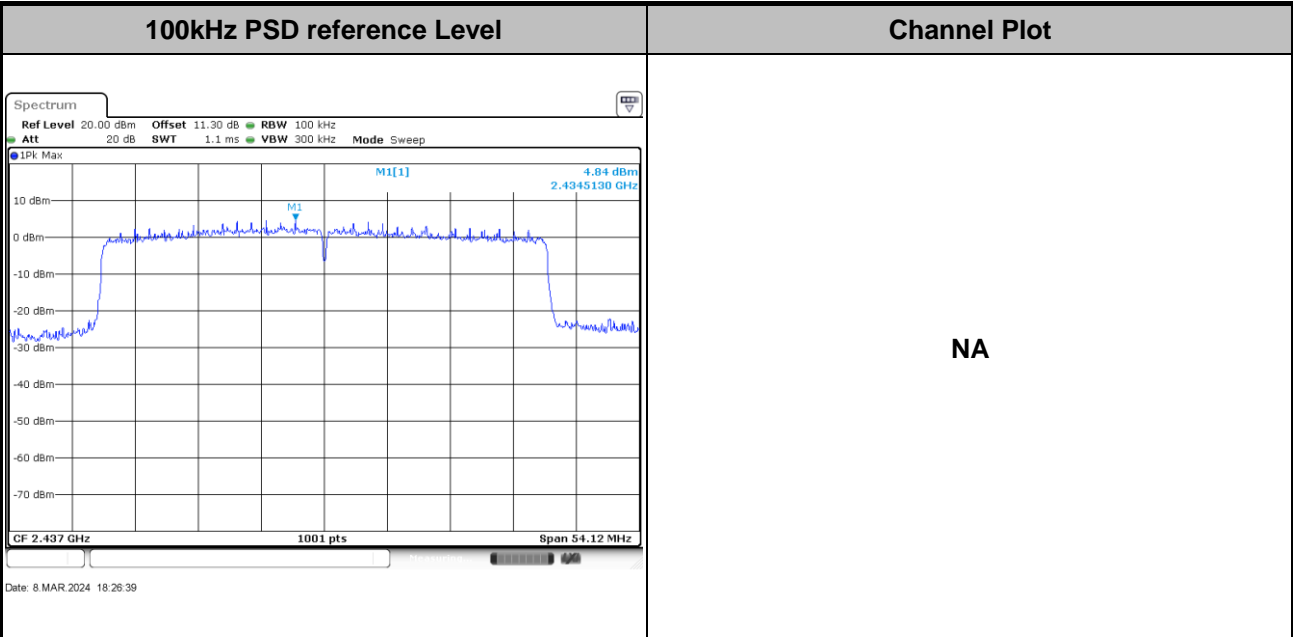


Test Mode :	802.11ax HE40	Test Channel :	03
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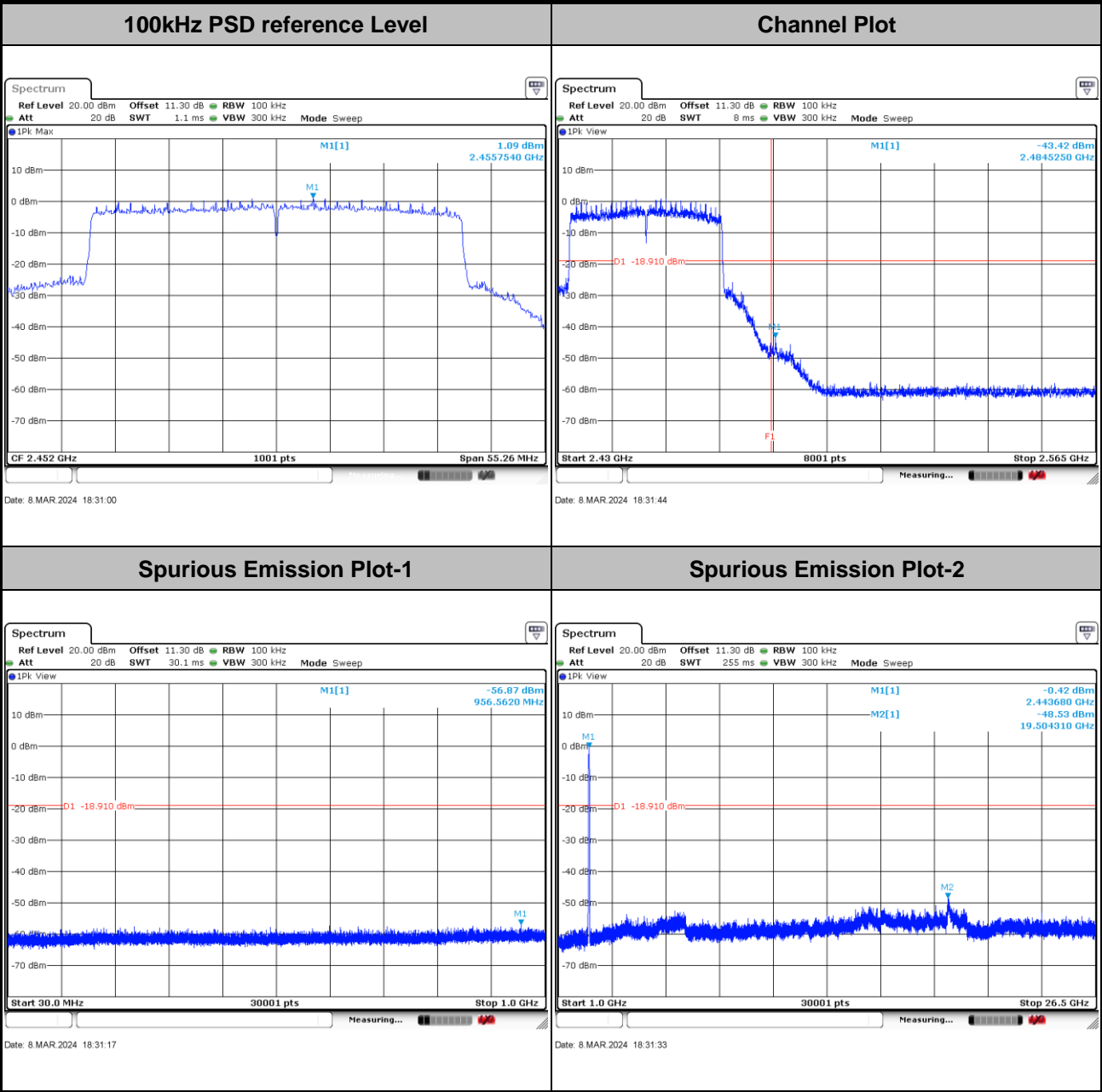


Test Mode :	802.11ax HE40	Test Channel :	06
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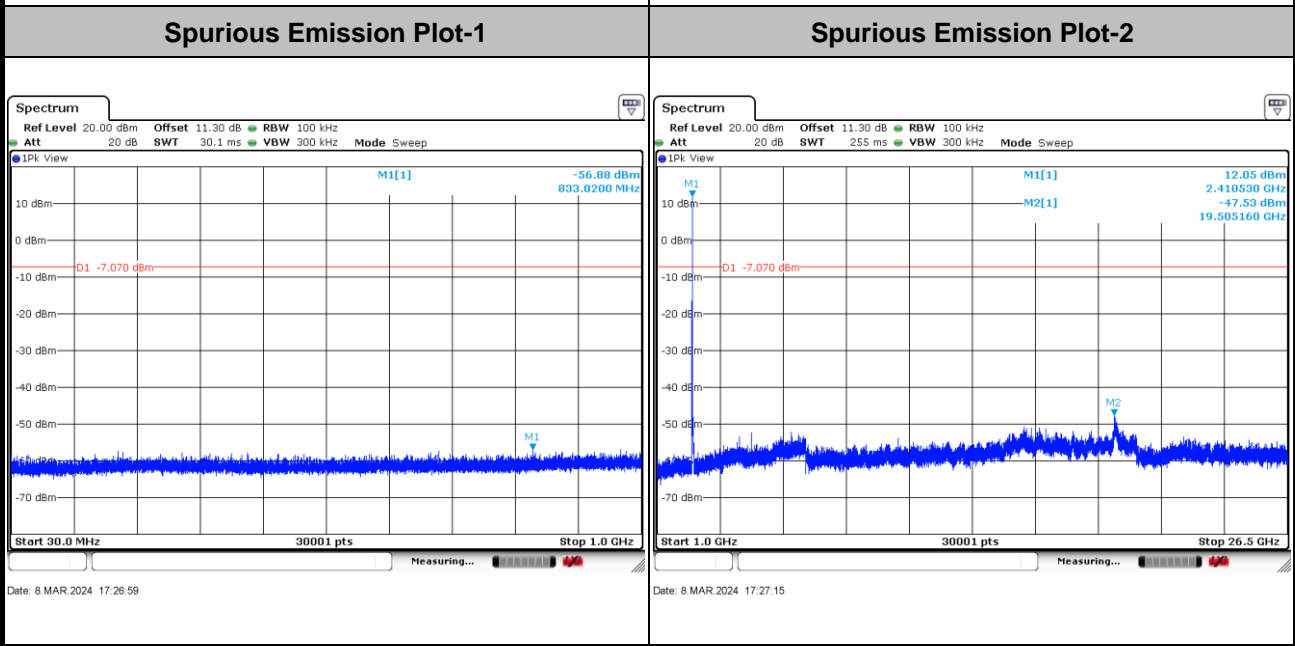
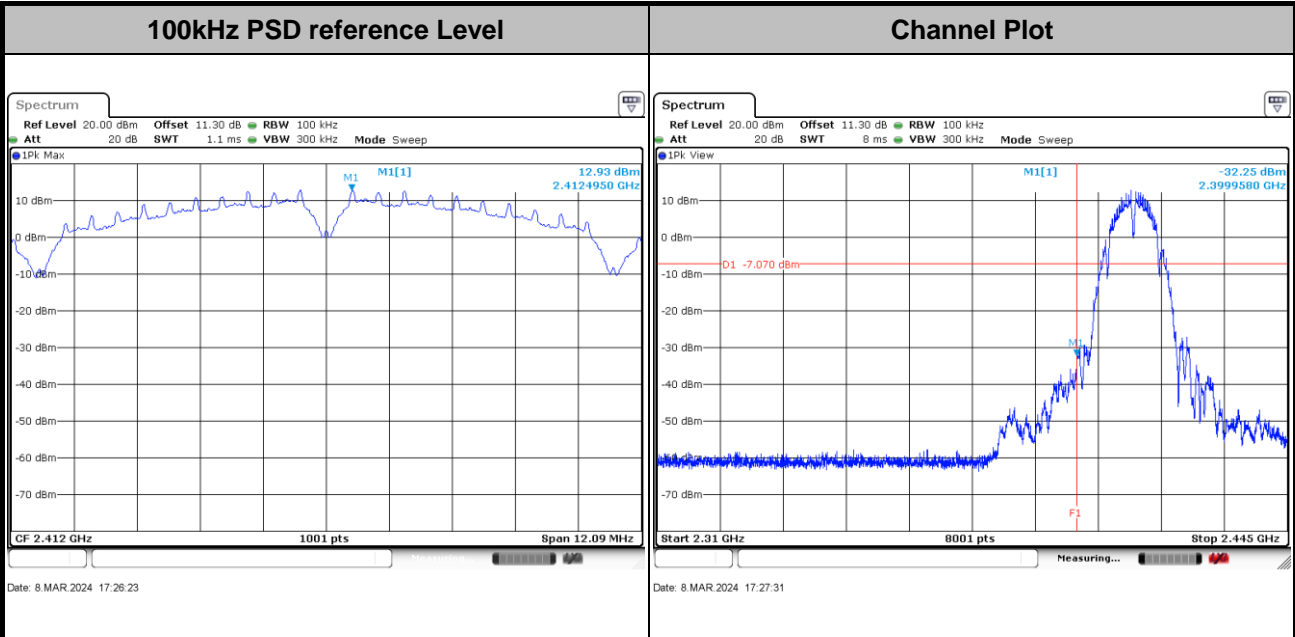
Test Mode :	802.11ax HE40	Test Channel :	09
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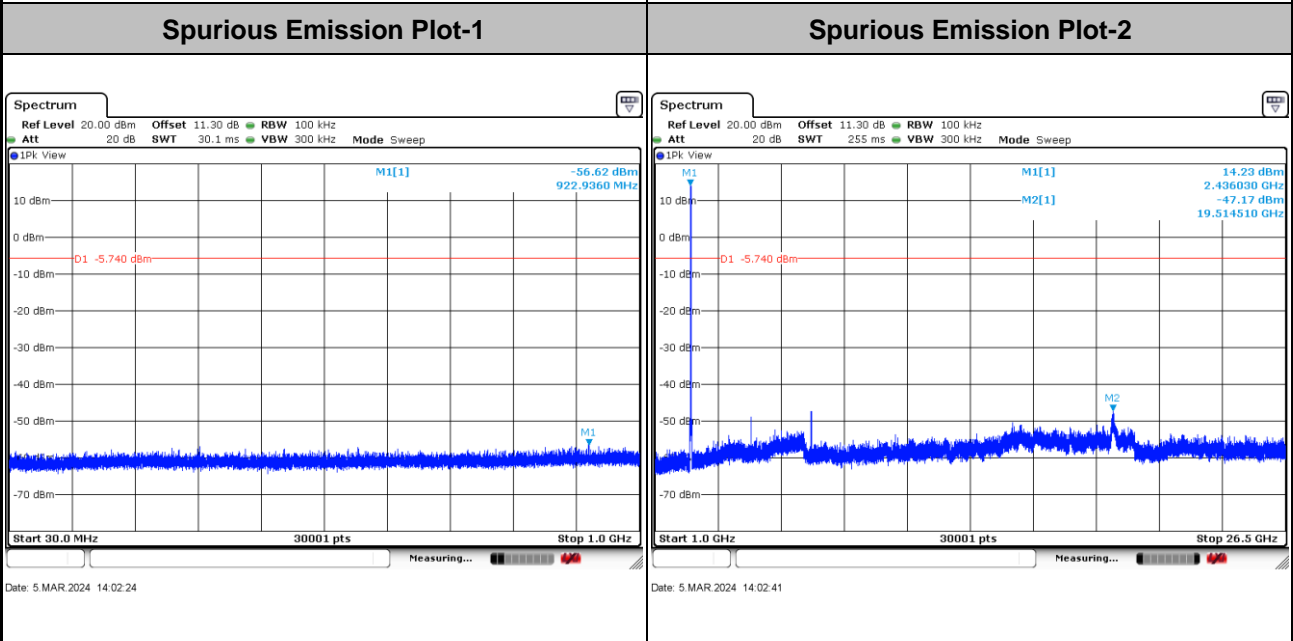
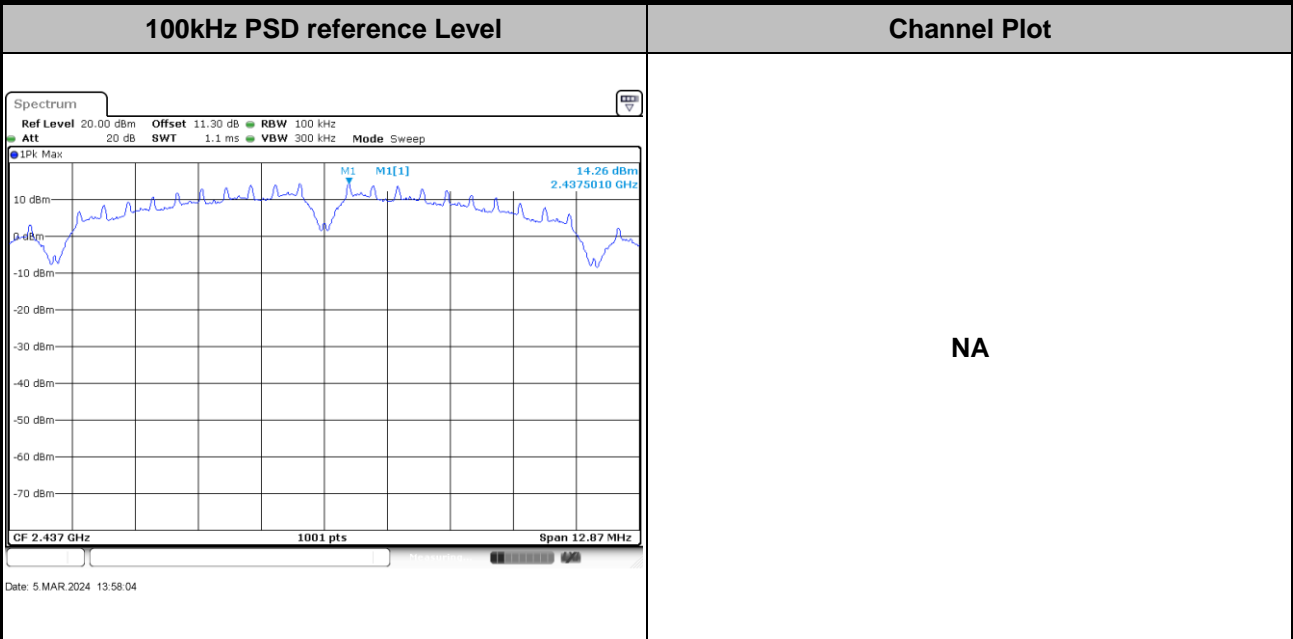
Number of TX = 2, Ant. 7 (Measured)

Test Mode :	802.11b	Test Channel :	01
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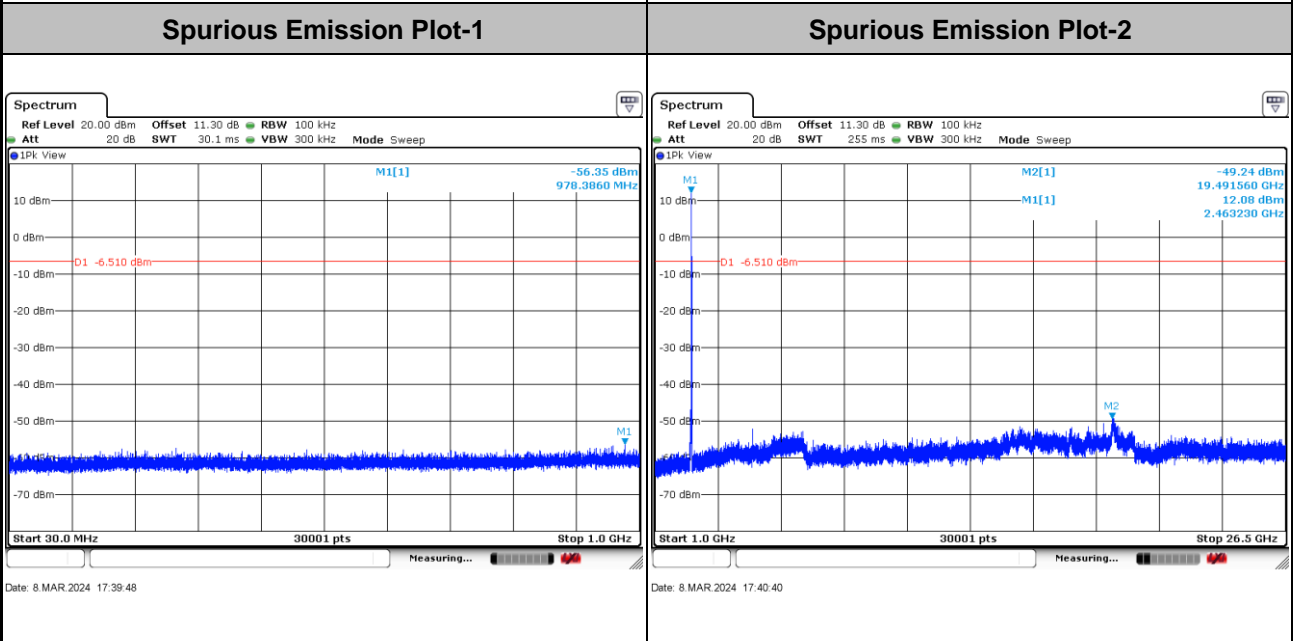
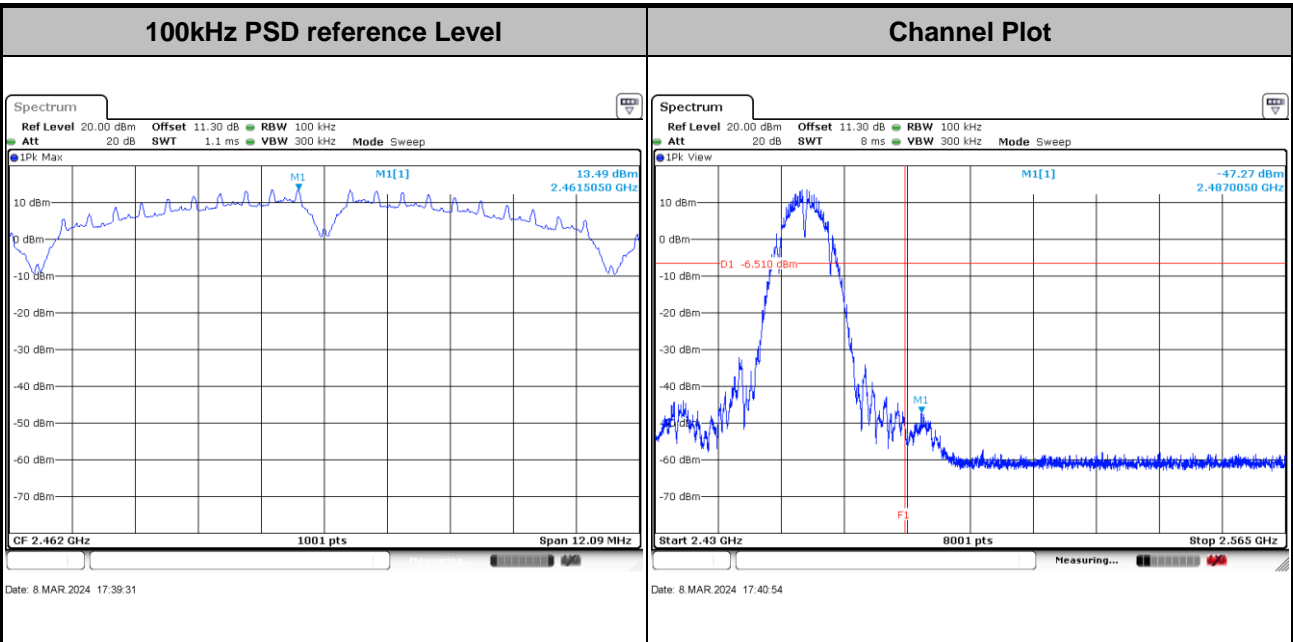


Test Mode :	802.11b	Test Channel :	06
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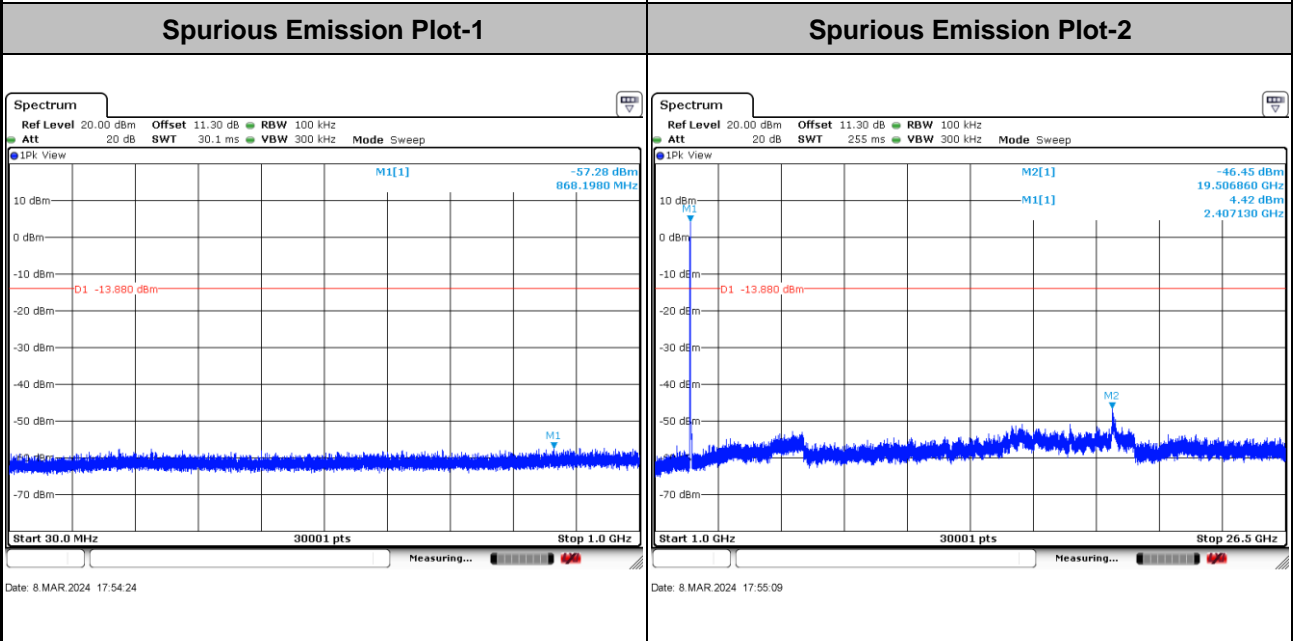
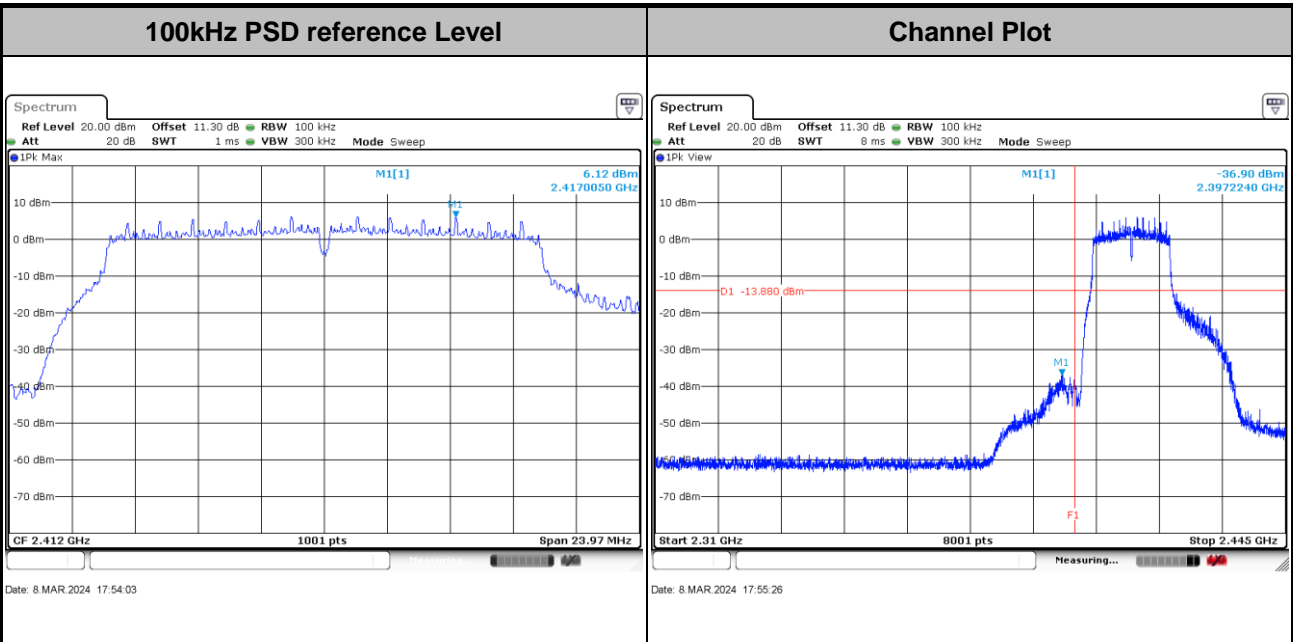


Test Mode :	802.11b	Test Channel :	11
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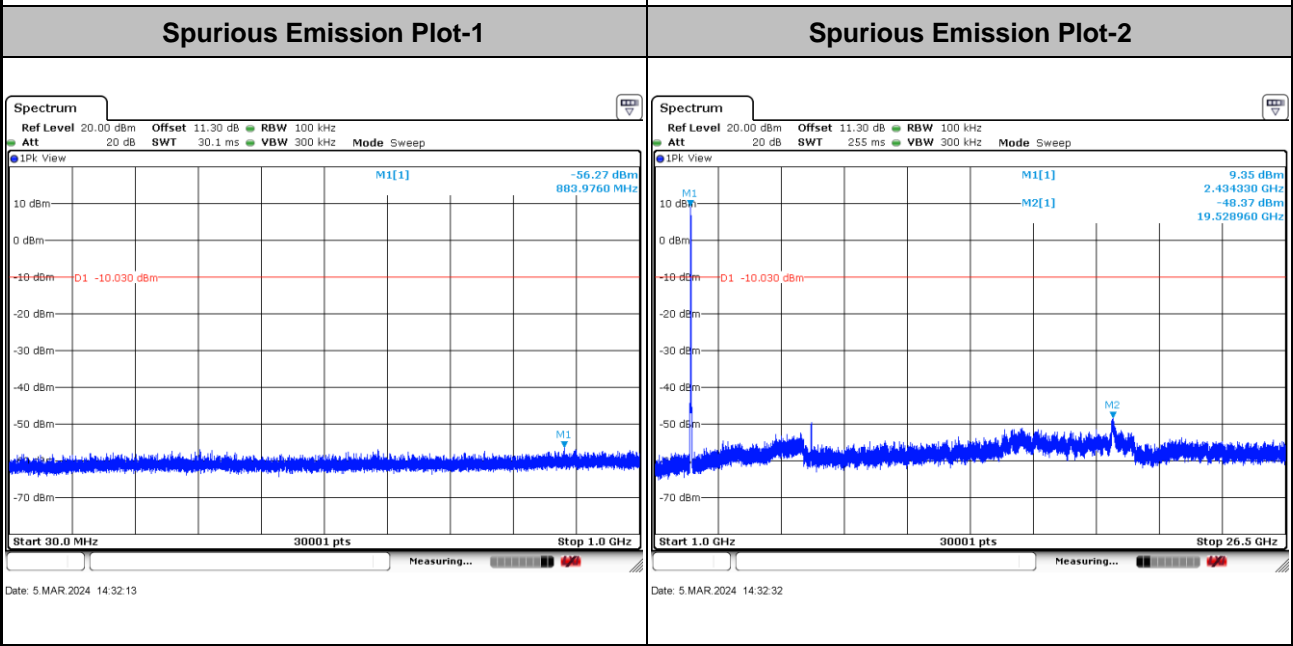
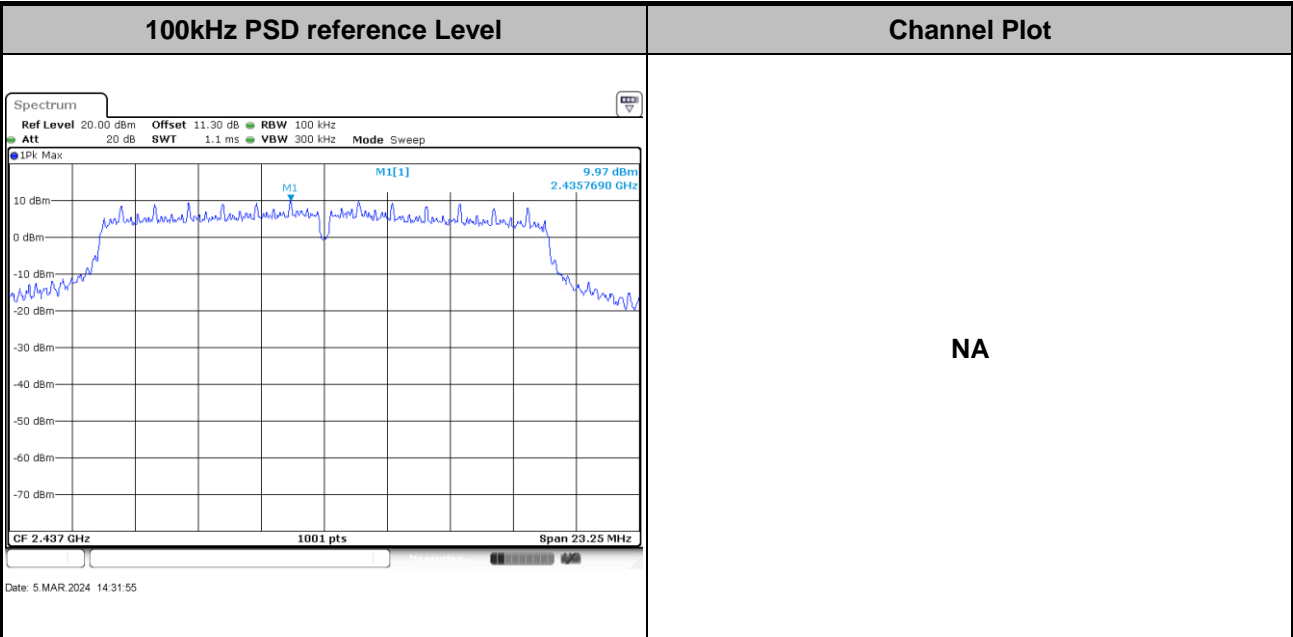


Test Mode : 802.11g Test Channel : 01



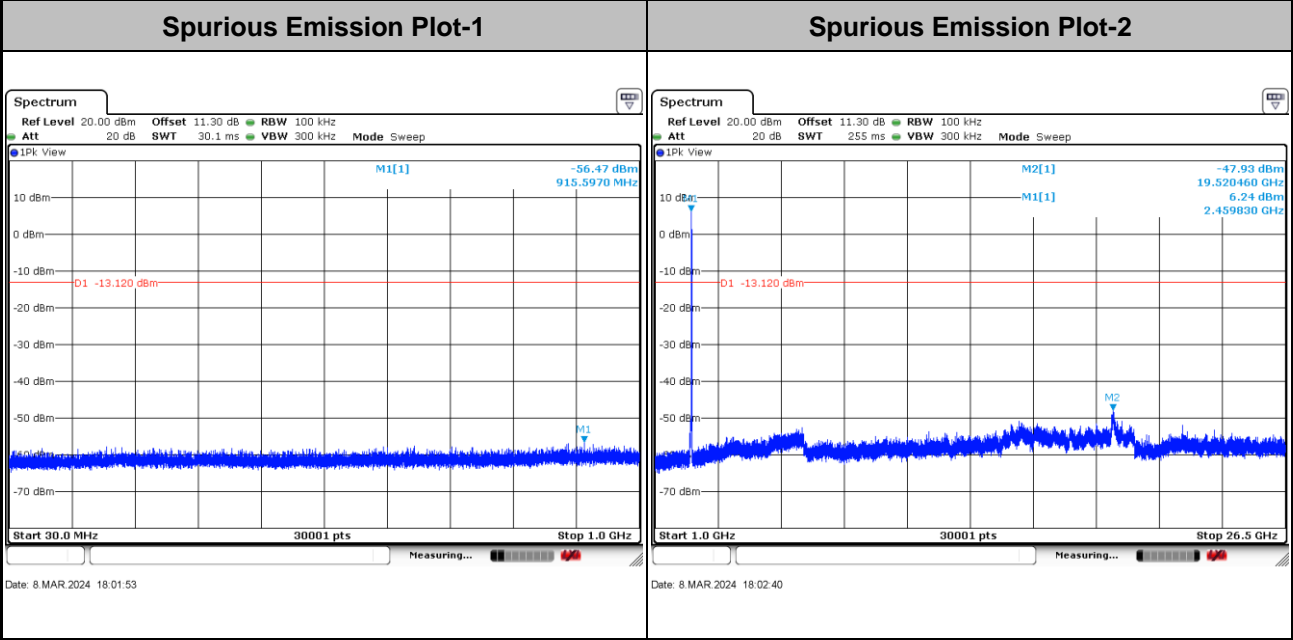
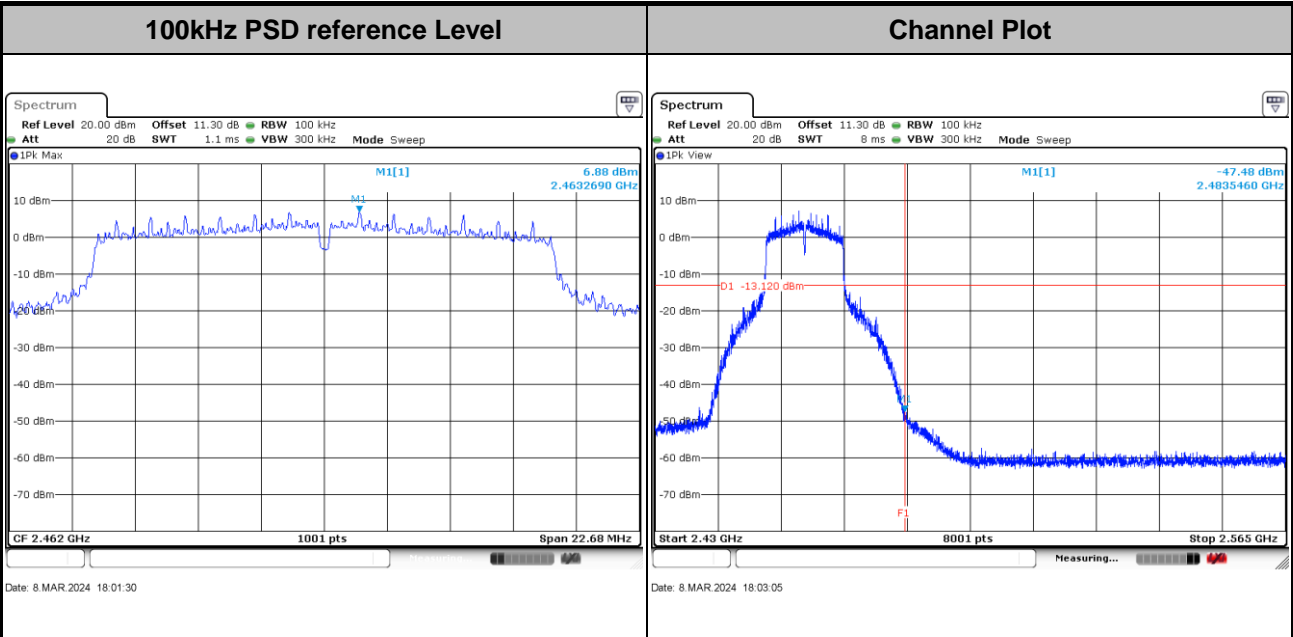


Test Mode :	802.11g	Test Channel :	06
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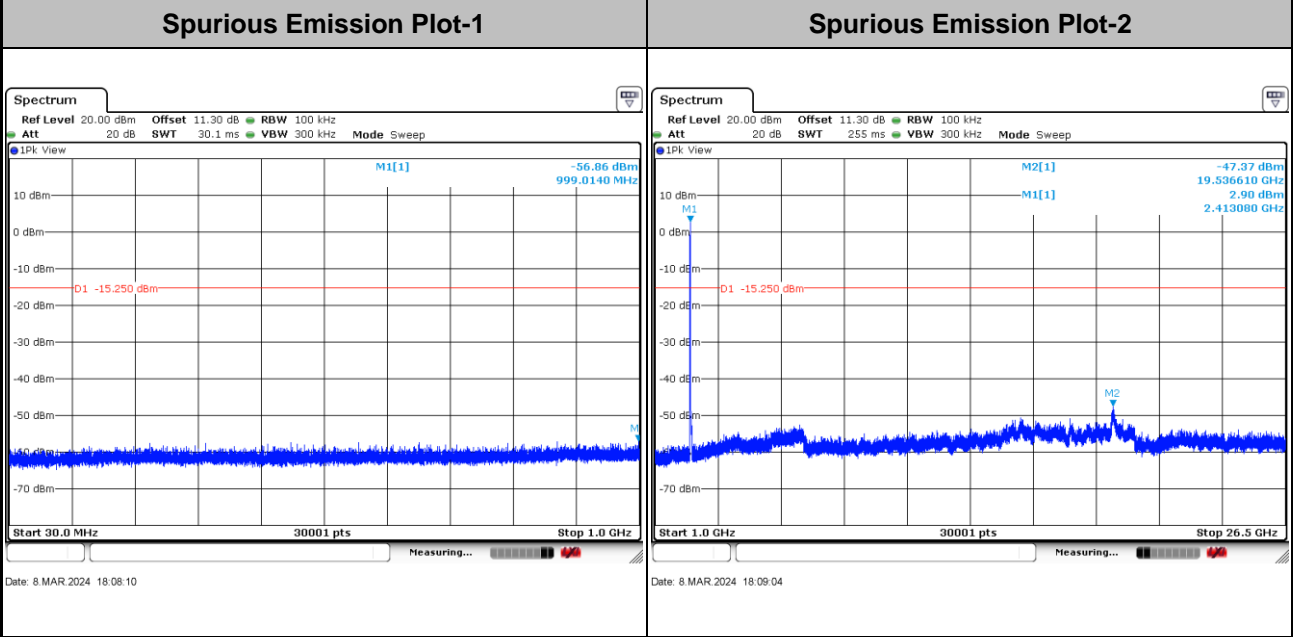
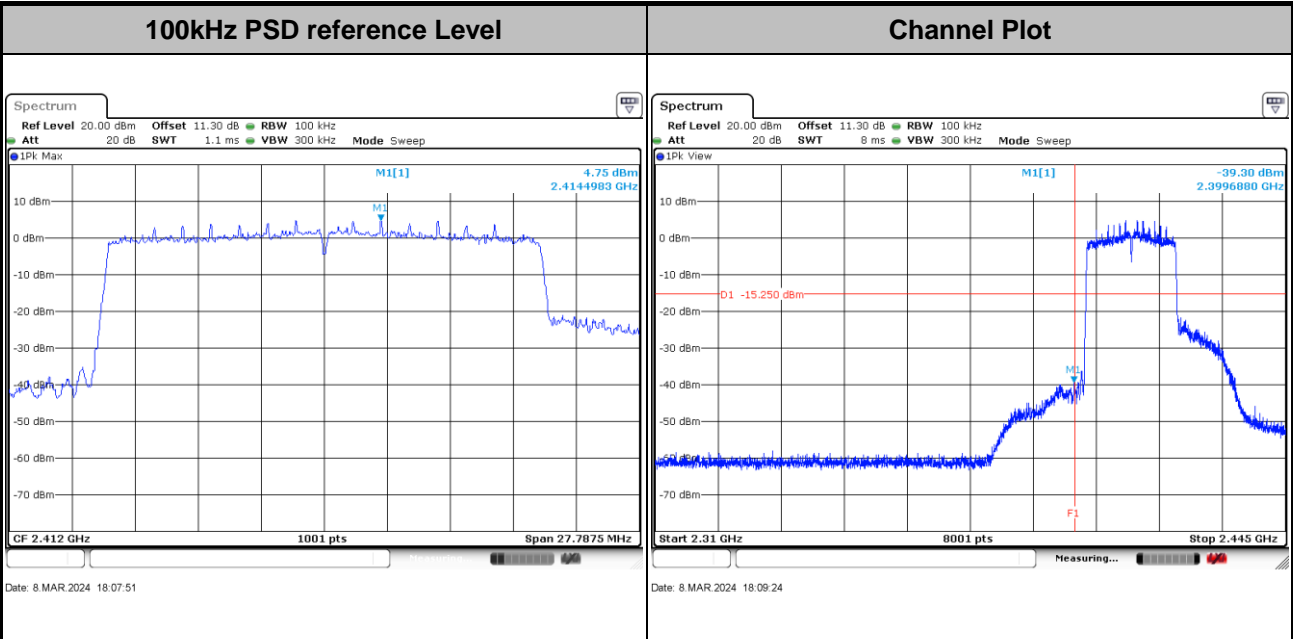


Test Mode : 802.11g Test Channel : 11



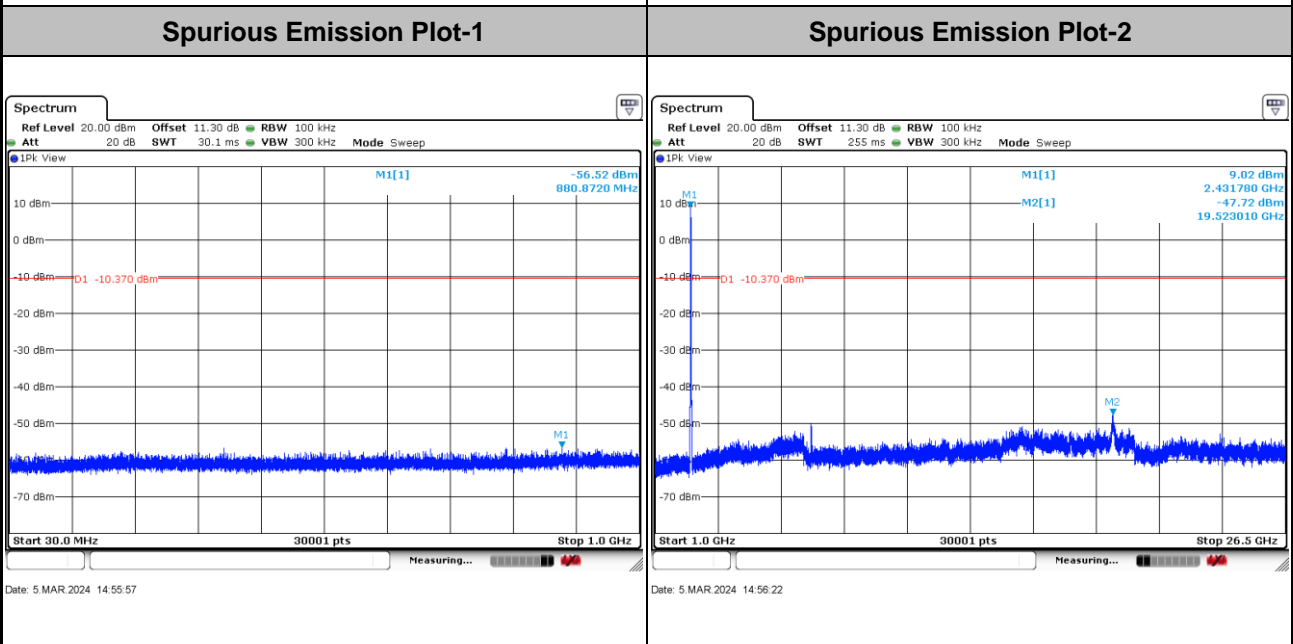
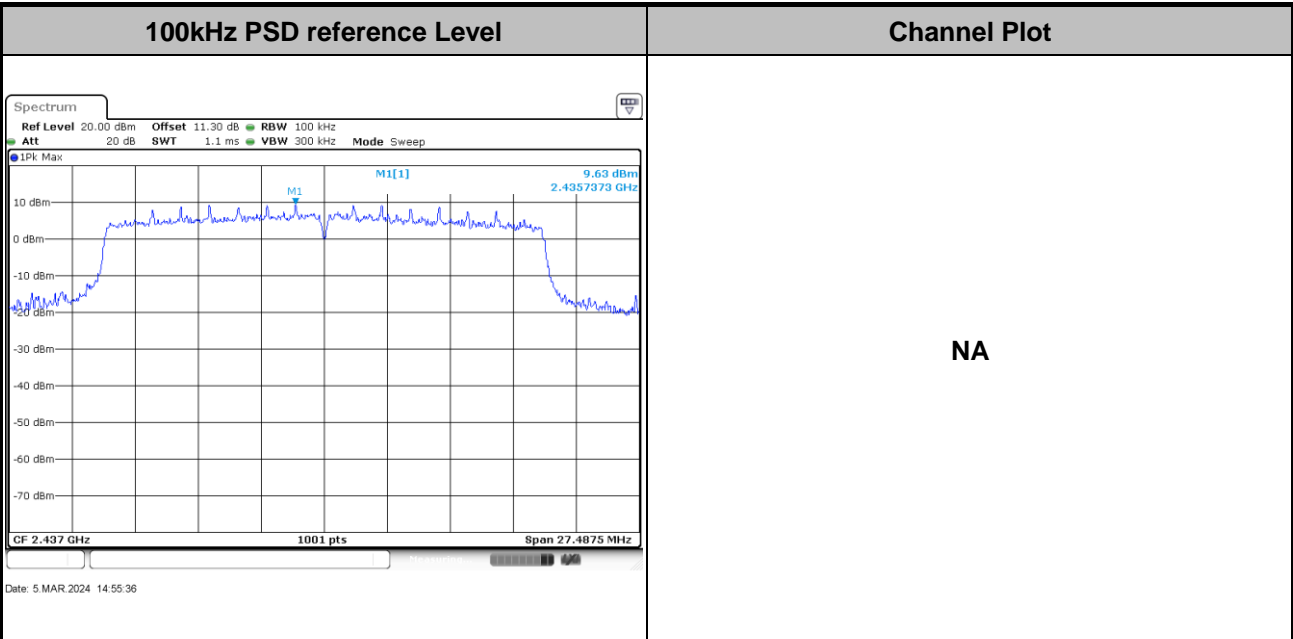


Test Mode :	802.11ax HE20	Test Channel :	01
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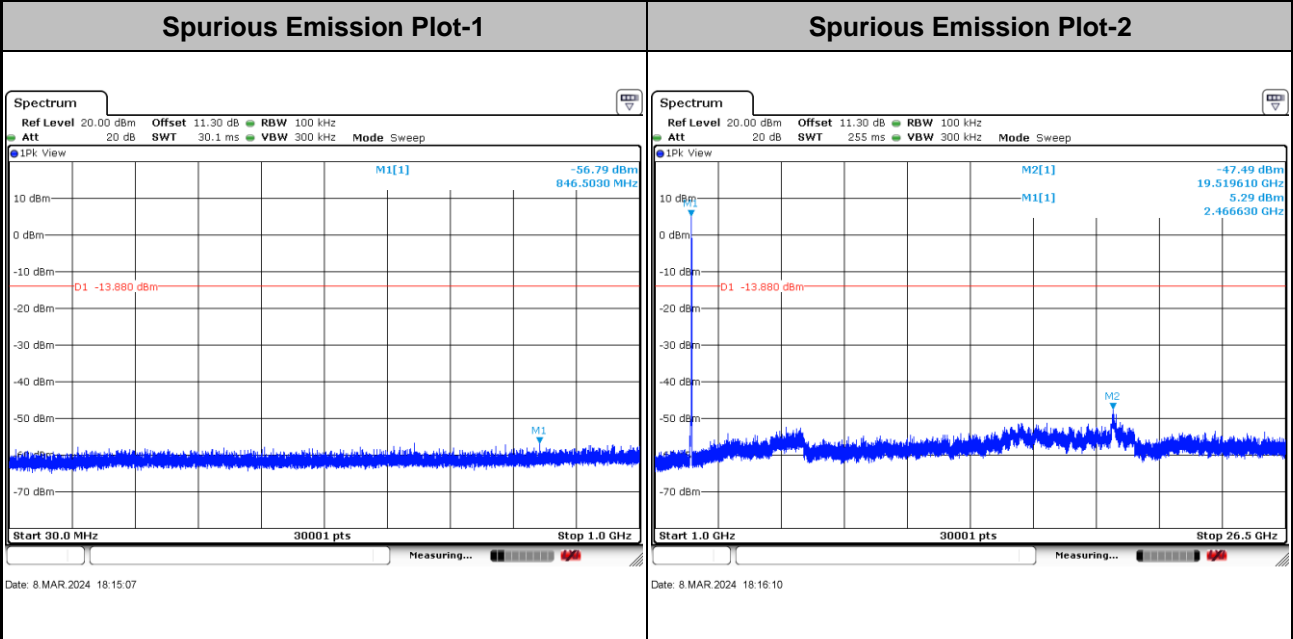
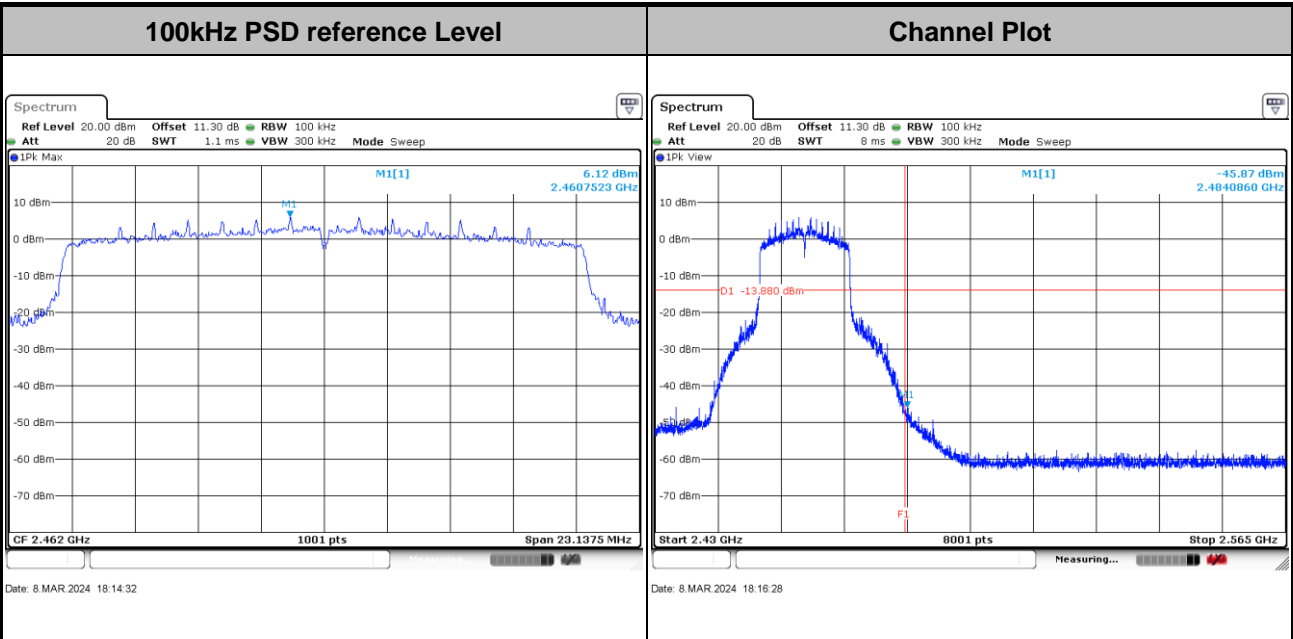


Test Mode :	802.11ax HE20	Test Channel :	06
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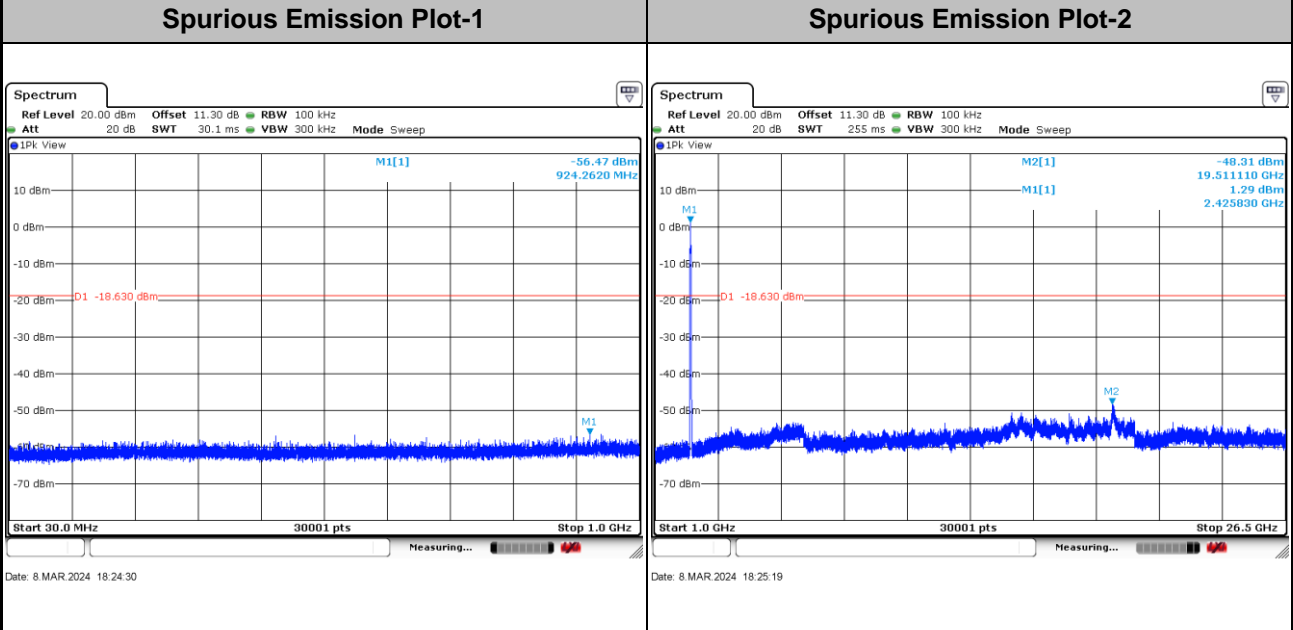
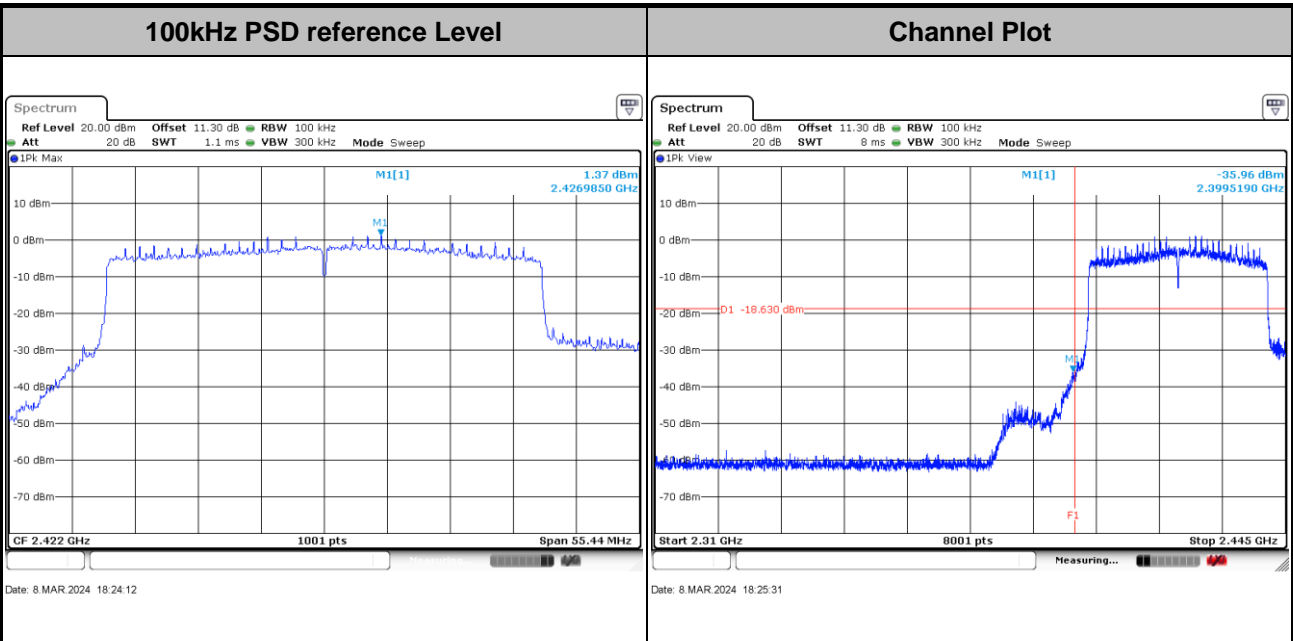


Test Mode :	802.11ax HE20	Test Channel :	11
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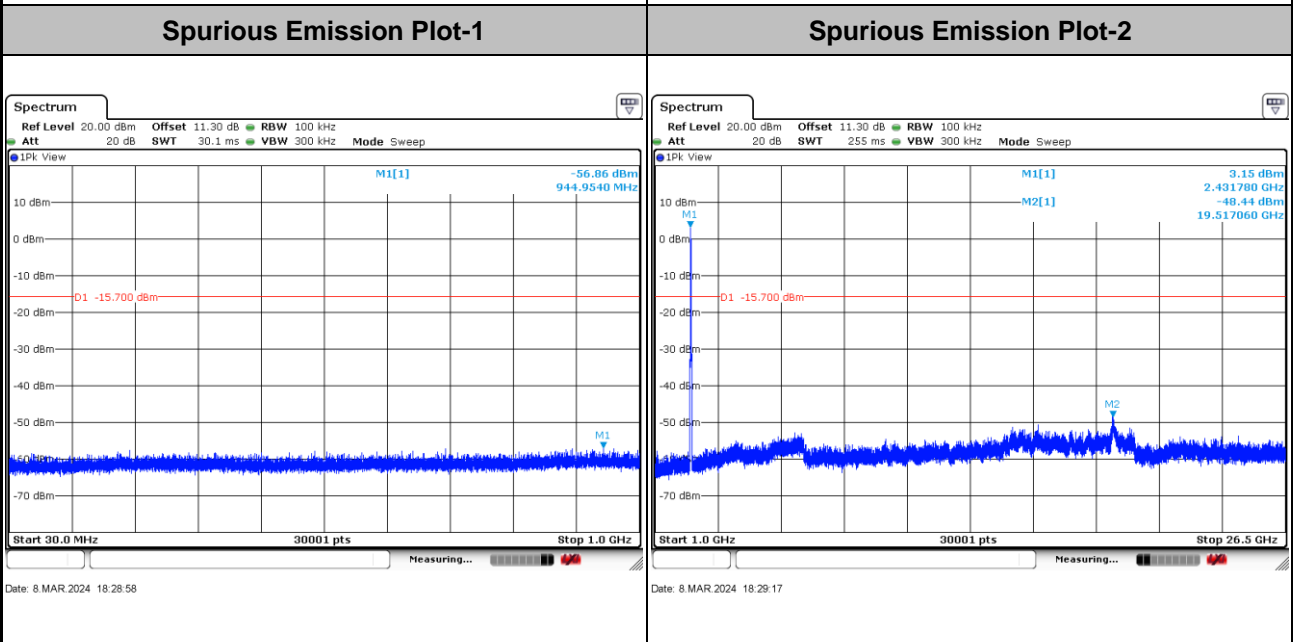
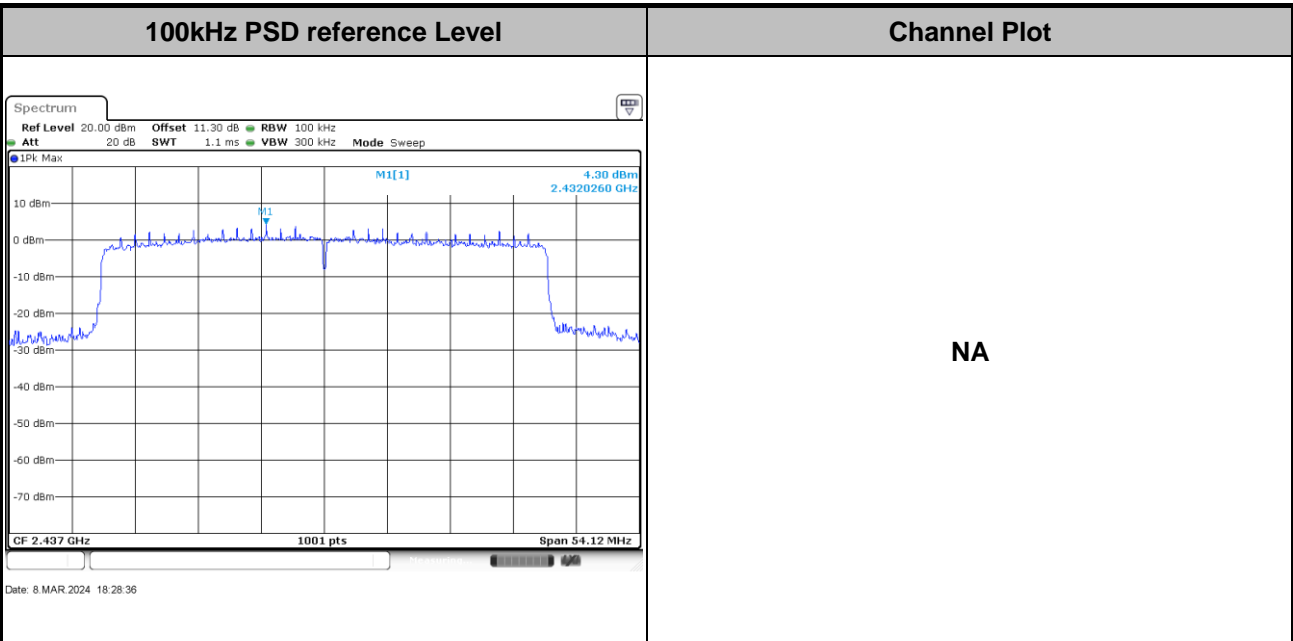


Test Mode :	802.11ax HE40	Test Channel :	03
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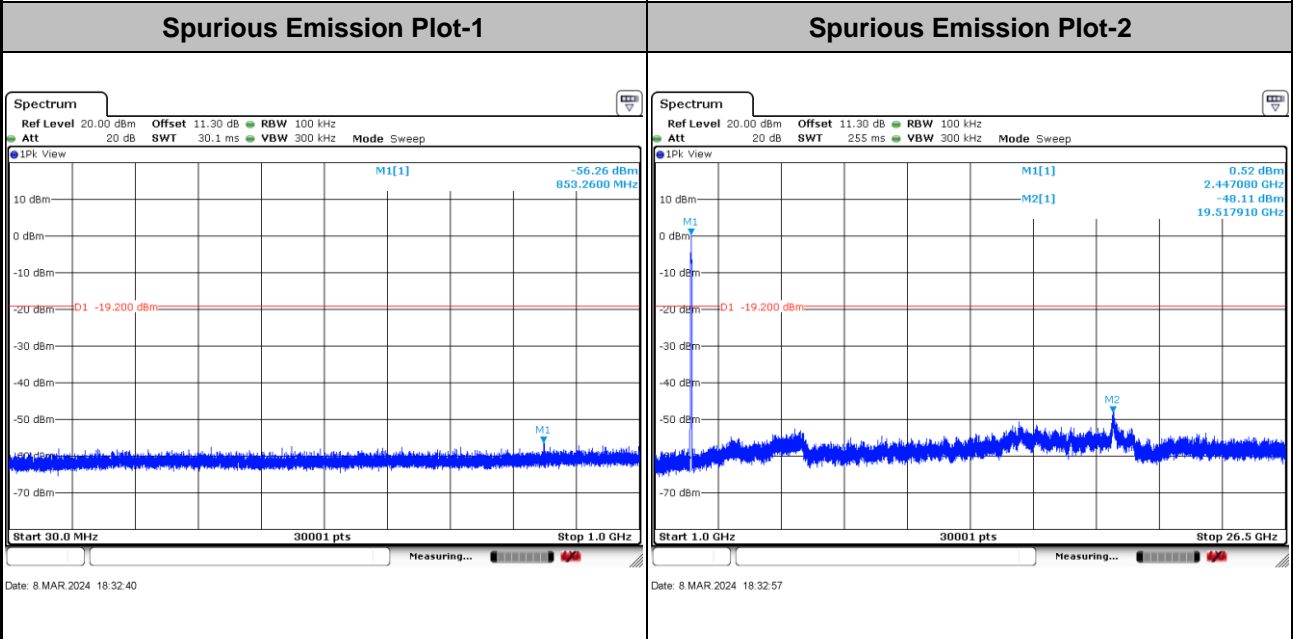
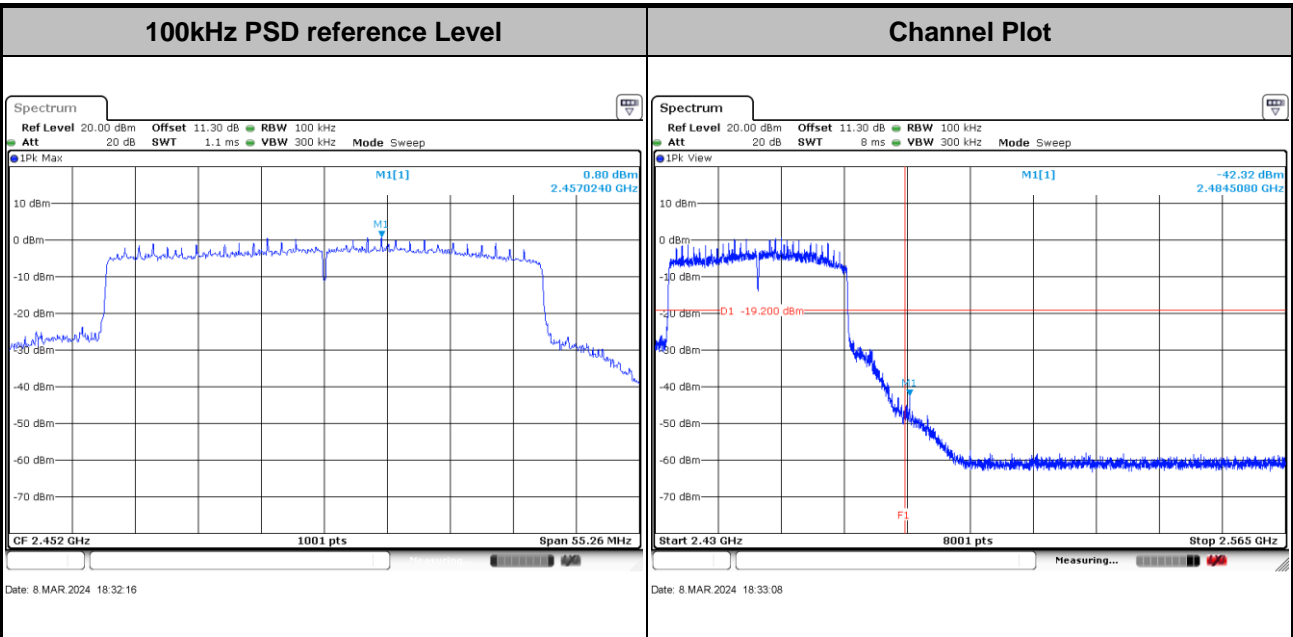


Test Mode :	802.11ax HE40	Test Channel :	06
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Test Mode :	802.11ax HE40	Test Channel :	09
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3.5 Radiated Band Edges and Spurious Emission Measurement

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 was 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

The measuring equipment is listed in the section 4 of this test report.

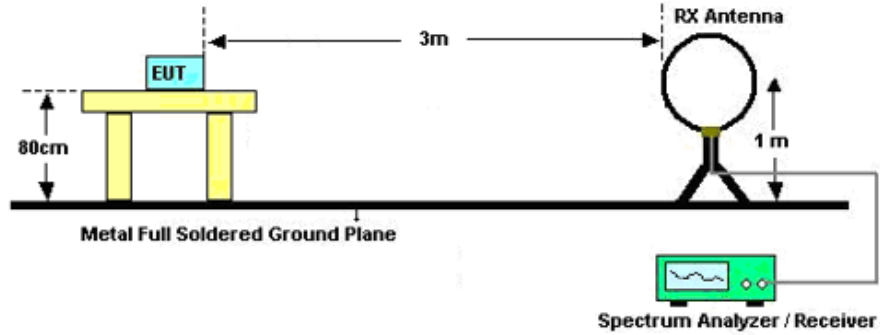


3.5.3 Test Procedures

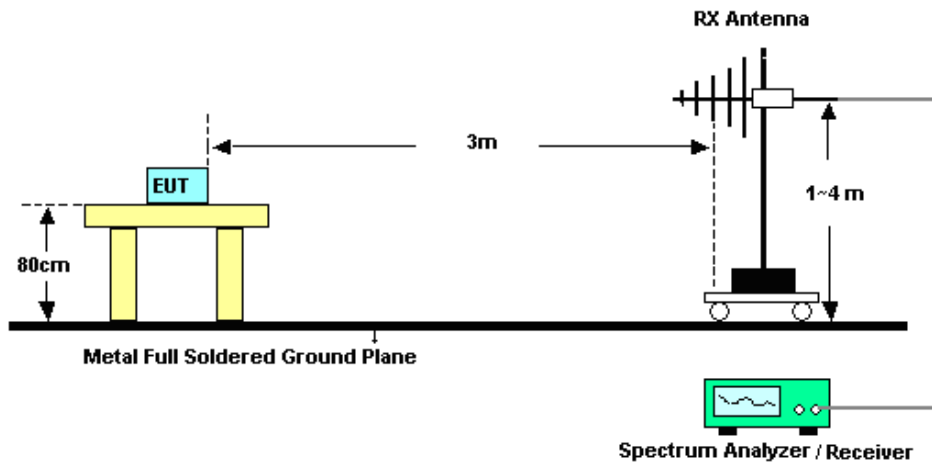
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
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= 3MHz 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

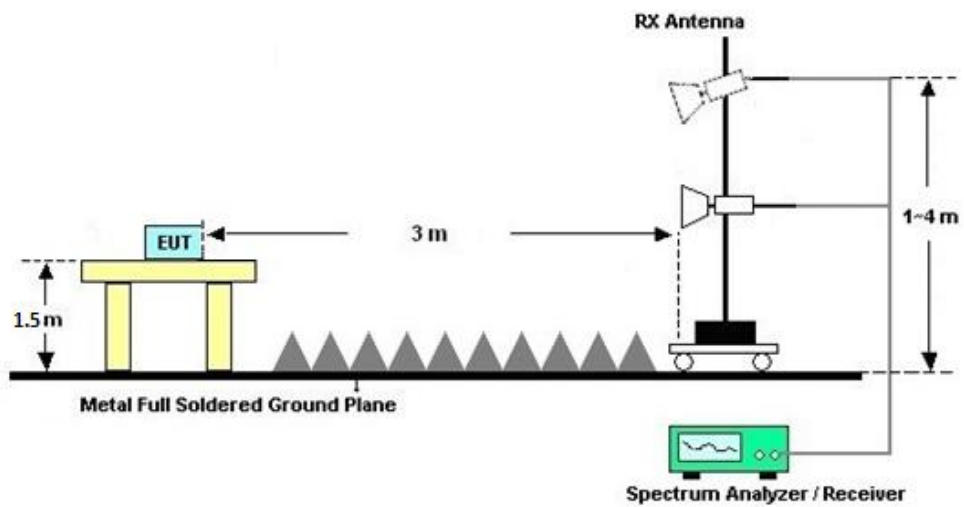
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came 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 or 40GHz, whichever is lower)

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 (dBµV)	
	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.

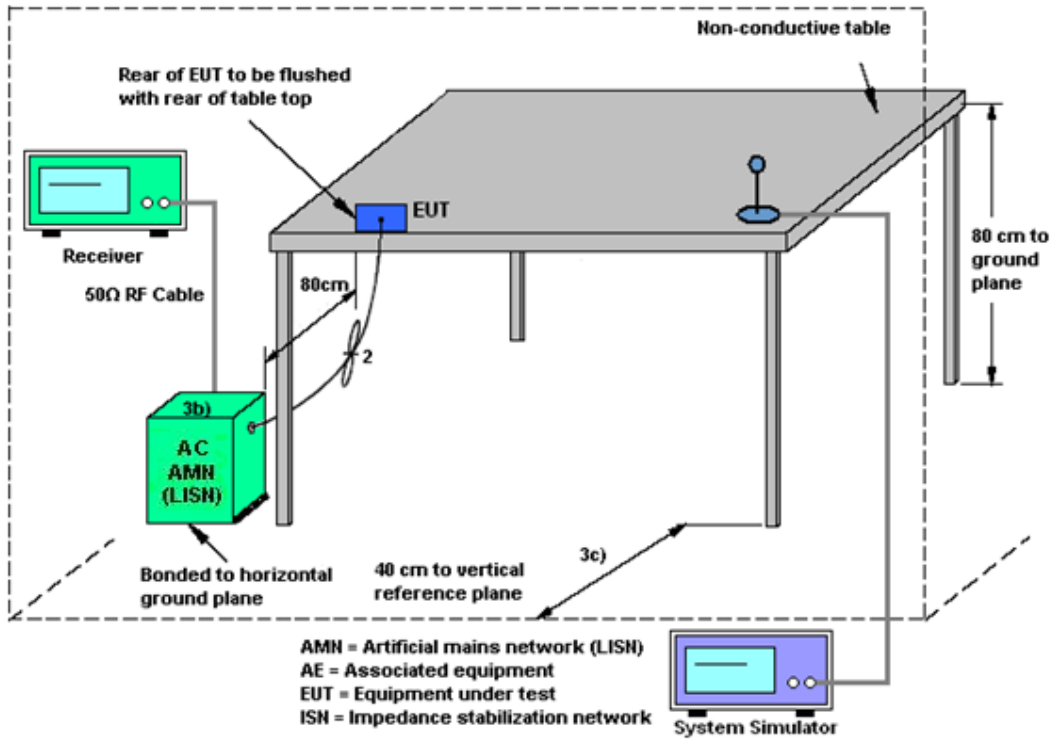
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was 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 should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
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

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

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

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

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

<CDD Modes>						
	Ant. 5 (dBi)	Ant. 7 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
2.4 GHz	-5.90	-6.80	-5.90	-3.33	0.00	0.00

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

where

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

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

N_{ANT} = the total number of antennas

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

G_k is the gain in dBi of the k th antenna.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 5	Ant. 7	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	-5.90	-6.80	-3.33	-3.33	0.00	0.00

$$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$$

$$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 16, 2023	Mar. 22, 2024	May 15, 2024	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Mar. 22, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 16, 2023	Mar. 22, 2024	May 15, 2024	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Mar. 22, 2024	Oct. 10, 2024	Conduction (CO01-KS)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 04, 2023	Mar. 20, 2024~Mar. 28, 2024	Apr. 03, 2024	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 04, 2023	Mar. 20, 2024~Mar. 28, 2024	Apr. 03, 2024	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Mar. 20, 2024~Mar. 28, 2024	Jul. 27, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	Mar. 20, 2024~Mar. 28, 2024	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 08, 2023	Mar. 20, 2024~Mar. 28, 2024	Apr. 07, 2024	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 08, 2023	Mar. 20, 2024~Mar. 28, 2024	Apr. 07, 2024	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 18, 2023	Mar. 20, 2024~Mar. 28, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Mar. 20, 2024~Mar. 28, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 27, 2023	Mar. 20, 2024~Mar. 28, 2024	Dec. 26, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	Mar. 20, 2024~Mar. 28, 2024	Jul.06, 2024	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	1 N/A	Oct. 18, 2023	Mar. 20, 2024~Mar. 28, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Mar. 20, 2024~Mar. 28, 2024	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Mar. 20, 2024~Mar. 28, 2024	NCR	Radiation (03CH03-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 06, 2023	Mar. 05, 2024~Mar. 08, 2024	Apr. 05, 2024	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 29, 2023	Mar. 05, 2024~Mar. 08, 2024	Dec. 28, 2024	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Aug. 21, 2023	Mar. 05, 2024~Mar. 08, 2024	Aug. 20, 2024	Conducted (TH01-SZ)
Thermo meter	Anymetre	JR593	#7	- 10℃ ~ 50℃ 10%RH~99%RH	Apr. 08, 2023	Mar. 05, 2024~Mar. 08, 2024	Apr. 07, 2024	Conducted (TH01-SZ)

NCR: No Calibration Required



5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Conducted Power Spectral Density	±1.32 dB
Frequency	±1.3 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84 dB
---------------------------------------------------------------------	---------

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

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

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

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

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

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

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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

----- THE END -----



Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Sam Zheng	Temperature:	21~25	°C
Test Date:	2024/3/5~2024/3/8	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
					Ant7	Ant7		
11b	1Mbps	2	1	2412	12.49	8.06	0.50	Pass
11b	1Mbps	2	6	2437	13.24	8.58	0.50	Pass
11b	1Mbps	2	11	2462	12.64	8.06	0.50	Pass
11g	6Mbps	2	1	2412	17.38	15.98	0.50	Pass
11g	6Mbps	2	6	2437	17.83	15.50	0.50	Pass
11g	6Mbps	2	11	2462	16.98	15.12	0.50	Pass

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
						Ant7	Ant7		
HE20	MCS0	2	1	2412	Full	18.88	18.53	0.50	Pass
HE20	MCS0	2	6	2437	Full	19.28	18.33	0.50	Pass
HE20	MCS0	2	11	2462	Full	18.93	15.43	0.50	Pass
HE40	MCS0	2	3	2422	Full	37.96	36.96	0.50	Pass
HE40	MCS0	2	6	2437	Full	38.06	36.08	0.50	Pass
HE40	MCS0	2	9	2452	Full	37.86	36.84	0.50	Pass

TEST RESULTS DATA
Average Output Power
(Reference Only)

2.4GHz Band MIMO																
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
					Ant7	Ant5	SUM	Ant7	Ant5	Ant7	Ant5	Ant7	Ant5	Ant7	Ant5	
11b	1Mbps	2	1	2412	21.70	20.90	24.33	30.00	-5.90	18.43	36.00	36.00	Pass			
11b	1Mbps	2	6	2437	23.13	22.19	25.70	30.00	-5.90	19.80	36.00	36.00	Pass			
11b	1Mbps	2	11	2462	22.10	21.35	24.75	30.00	-5.90	18.85	36.00	36.00	Pass			
11g	6Mbps	2	1	2412	17.40	16.70	20.07	30.00	-5.90	14.17	36.00	36.00	Pass			
11g	6Mbps	2	2	2417	19.40	18.90	22.17	30.00	-5.90	16.27	36.00	36.00	Pass			
11g	6Mbps	2	6	2437	21.73	20.46	24.15	30.00	-5.90	18.25	36.00	36.00	Pass			
11g	6Mbps	2	10	2457	19.30	18.70	22.02	30.00	-5.90	16.12	36.00	36.00	Pass			
11g	6Mbps	2	11	2462	17.90	17.00	20.48	30.00	-5.90	14.58	36.00	36.00	Pass			
HT20	MCS0	2	1	2412	16.20	15.24	18.76	30.00	-5.90	12.86	36.00	36.00	Pass			
HT20	MCS0	2	2	2417	18.00	17.46	20.75	30.00	-5.90	14.85	36.00	36.00	Pass			
HT20	MCS0	2	3	2422	20.20	19.42	22.84	30.00	-5.90	16.94	36.00	36.00	Pass			
HT20	MCS0	2	6	2437	21.16	20.15	23.69	30.00	-5.90	17.79	36.00	36.00	Pass			
HT20	MCS0	2	9	2452	19.00	18.34	21.69	30.00	-5.90	15.79	36.00	36.00	Pass			
HT20	MCS0	2	10	2457	17.90	17.34	20.64	30.00	-5.90	14.74	36.00	36.00	Pass			
HT20	MCS0	2	11	2462	17.15	16.15	19.69	30.00	-5.90	13.79	36.00	36.00	Pass			
HT40	MCS0	2	3	2422	14.86	13.85	17.39	30.00	-5.90	11.49	36.00	36.00	Pass			
HT40	MCS0	2	4	2427	16.70	16.00	19.37	30.00	-5.90	13.47	36.00	36.00	Pass			
HT40	MCS0	2	6	2437	17.86	16.86	20.40	30.00	-5.90	14.50	36.00	36.00	Pass			
HT40	MCS0	2	8	2447	15.24	14.42	17.86	30.00	-5.90	11.96	36.00	36.00	Pass			
HT40	MCS0	2	9	2452	14.46	13.54	17.03	30.00	-5.90	11.13	36.00	36.00	Pass			

Setting	
Ant7	Ant5
21.50	
23.00	
22.00	
17.00	
19.00	
21.00	
19.00	
17.50	
15.50	
17.50	
19.50	
20.50	
18.50	
17.50	
16.50	
14.00	
16.00	
17.00	
14.50	
13.50	

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

TEST RESULTS DATA
Average Output Power
(Reference Only)

2.4GHz Band MIMO																	
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
						Ant7	Ant5	SUM	Ant7	Ant5	Ant7	Ant5	Ant7	Ant5	Ant7	Ant5	
HE20	MCS0	2	1	2412	Full	16.25	15.30	18.81	30.00		-5.90	12.91		36.00		Pass	
HE20	MCS0	2	1	2412	26/0	8.20	7.80	11.01	30.00		-5.90	5.11		36.00		Pass	
HE20	MCS0	2	1	2412	52/37	10.50	10.20	13.36	30.00		-5.90	7.46		36.00		Pass	
HE20	MCS0	2	1	2412	106/53	13.40	13.10	16.26	30.00		-5.90	10.36		36.00		Pass	
HE20	MCS0	2	2	2417	Full	18.10	17.50	20.82	30.00		-5.90	14.92		36.00		Pass	
HE20	MCS0	2	3	2422	Full	20.30	19.50	22.93	30.00		-5.90	17.03		36.00		Pass	
HE20	MCS0	2	6	2437	Full	21.25	20.23	23.78	30.00		-5.90	17.88		36.00		Pass	
HE20	MCS0	2	9	2452	Full	19.10	18.40	21.77	30.00		-5.90	15.87		36.00		Pass	
HE20	MCS0	2	10	2457	Full	18.00	17.40	20.72	30.00		-5.90	14.82		36.00		Pass	
HE20	MCS0	2	11	2462	Full	17.20	16.20	19.74	30.00		-5.90	13.84		36.00		Pass	
HE20	MCS0	2	11	2462	26/8	8.80	7.70	11.30	30.00		-5.90	5.40		36.00		Pass	
HE20	MCS0	2	11	2462	52/40	11.40	10.30	13.90	30.00		-5.90	8.00		36.00		Pass	
HE20	MCS0	2	11	2462	106/54	14.40	13.40	16.94	30.00		-5.90	11.04		36.00		Pass	
HE40	MCS0	2	3	2422	Full	14.90	13.90	17.44	30.00		-5.90	11.54		36.00		Pass	
HE40	MCS0	2	4	2427	Full	16.80	16.10	19.47	30.00		-5.90	13.57		36.00		Pass	
HE40	MCS0	2	6	2437	Full	17.90	16.90	20.44	30.00		-5.90	14.54		36.00		Pass	
HE40	MCS0	2	8	2447	Full	15.30	14.50	17.93	30.00		-5.90	12.03		36.00		Pass	
HE40	MCS0	2	9	2452	Full	14.50	13.60	17.08	30.00		-5.90	11.18		36.00		Pass	

Setting	
Ant 1	Ant 2
15.50	
8.00	
10.50	
12.50	
17.50	
19.50	
20.50	
18.50	
17.50	
16.50	
9.00	
11.50	
13.50	
14.00	
16.00	
17.00	
14.50	
13.50	

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

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant7	Ant5	SUM	Ant7	Ant5	Ant7	Ant5	Ant7	Ant5	Ant7	Ant5	
11b	1Mbps	2	1	2412	24.45	24.24	27.36	30.00		-5.90		21.46		36.00	Pass	
11b	1Mbps	2	6	2437	25.66	23.74	27.82	30.00		-5.90		21.92		36.00	Pass	
11b	1Mbps	2	11	2462	24.40	23.90	27.17	30.00		-5.90		21.27		36.00	Pass	
11g	6Mbps	2	1	2412	24.50	24.23	27.38	30.00		-5.90		21.48		36.00	Pass	
11g	6Mbps	2	2	2417	26.40	26.31	29.37	30.00		-5.90		23.47		36.00	Pass	
11g	6Mbps	2	6	2437	27.03	26.48	29.77	30.00		-5.90		23.87		36.00	Pass	
11g	6Mbps	2	10	2457	25.10	24.40	27.77	30.00		-5.90		21.87		36.00	Pass	
11g	6Mbps	2	11	2462	24.05	23.64	26.86	30.00		-5.90		20.96		36.00	Pass	
HT20	MCS0	2	1	2412	24.30	23.68	27.01	30.00		-5.90		21.11		36.00	Pass	
HT20	MCS0	2	2	2417	26.51	26.33	29.43	30.00		-5.90		23.53		36.00	Pass	
HT20	MCS0	2	3	2422	26.60	26.40	29.51	30.00		-5.90		23.61		36.00	Pass	
HT20	MCS0	2	6	2437	26.78	26.35	29.58	30.00		-5.90		23.68		36.00	Pass	
HT20	MCS0	2	9	2452	25.63	25.40	28.53	30.00		-5.90		22.63		36.00	Pass	
HT20	MCS0	2	10	2457	25.10	24.50	27.82	30.00		-5.90		21.92		36.00	Pass	
HT20	MCS0	2	11	2462	24.41	23.94	27.19	30.00		-5.90		21.29		36.00	Pass	
HT40	MCS0	2	3	2422	22.75	21.95	25.38	30.00		-5.90		19.48		36.00	Pass	
HT40	MCS0	2	4	2427	24.31	23.60	26.98	30.00		-5.90		21.08		36.00	Pass	
HT40	MCS0	2	6	2437	25.70	24.93	28.34	30.00		-5.90		22.44		36.00	Pass	
HT40	MCS0	2	8	2447	23.11	22.40	25.78	30.00		-5.90		19.88		36.00	Pass	
HT40	MCS0	2	9	2452	22.57	21.65	25.14	30.00		-5.90		19.24		36.00	Pass	

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

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																	
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
						Ant7	Ant5	SUM	Ant7	Ant5	Ant7	Ant5	Ant7	Ant5	Ant7	Ant5	
HE20	MCS0	2	1	2412	Full	24.57	23.86	27.24	30.00		-5.90	21.34		36.00		Pass	
HE20	MCS0	2	1	2412	26/0	19.80	19.46	22.64	30.00		-5.90	16.74		36.00		Pass	
HE20	MCS0	2	1	2412	52/37	21.85	21.40	24.64	30.00		-5.90	18.74		36.00		Pass	
HE20	MCS0	2	1	2412	106/53	24.58	24.35	27.48	30.00		-5.90	21.58		36.00		Pass	
HE20	MCS0	2	2	2417	Full	26.55	26.41	29.49	30.00		-5.90	23.59		36.00		Pass	
HE20	MCS0	2	3	2422	Full	26.68	26.50	29.60	30.00		-5.90	23.70		36.00		Pass	
HE20	MCS0	2	6	2437	Full	26.93	26.41	29.69	30.00		-5.90	23.79		36.00		Pass	
HE20	MCS0	2	9	2452	Full	25.70	25.48	28.60	30.00		-5.90	22.70		36.00		Pass	
HE20	MCS0	2	10	2457	Full	25.15	24.56	27.88	30.00		-5.90	21.98		36.00		Pass	
HE20	MCS0	2	11	2462	Full	24.60	24.11	27.37	30.00		-5.90	21.47		36.00		Pass	
HE20	MCS0	2	11	2462	26/8	19.90	18.80	22.40	30.00		-5.90	16.50		36.00		Pass	
HE20	MCS0	2	11	2462	52/40	22.48	21.50	25.03	30.00		-5.90	19.13		36.00		Pass	
HE20	MCS0	2	11	2462	106/54	24.80	24.10	27.47	30.00		-5.90	21.57		36.00		Pass	
HE40	MCS0	2	3	2422	Full	22.80	22.02	25.44	30.00		-5.90	19.54		36.00		Pass	
HE40	MCS0	2	4	2427	Full	24.34	23.65	27.02	30.00		-5.90	21.12		36.00		Pass	
HE40	MCS0	2	6	2437	Full	25.78	25.00	28.42	30.00		-5.90	22.52		36.00		Pass	
HE40	MCS0	2	8	2447	Full	23.17	22.43	25.83	30.00		-5.90	19.93		36.00		Pass	
HE40	MCS0	2	9	2452	Full	22.60	21.70	25.18	30.00		-5.90	19.28		36.00		Pass	

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant7	Ant5	Worse + 3.01	Ant7	Ant5	Ant7	Ant5	
11b	1Mbps	2	1	2412	-0.29	-1.23	2.72	-3.33		8.00		Pass
11b	1Mbps	2	6	2437	0.97	0.20	3.98	-3.33		8.00		Pass
11b	1Mbps	2	11	2462	0.42	-0.08	3.43	-3.33		8.00		Pass
11g	6Mbps	2	1	2412	-7.04	-7.50	-4.03	-3.33		8.00		Pass
11g	6Mbps	2	6	2437	-3.57	-3.72	-0.56	-3.33		8.00		Pass
11g	6Mbps	2	11	2462	-6.62	-6.55	-3.54	-3.33		8.00		Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

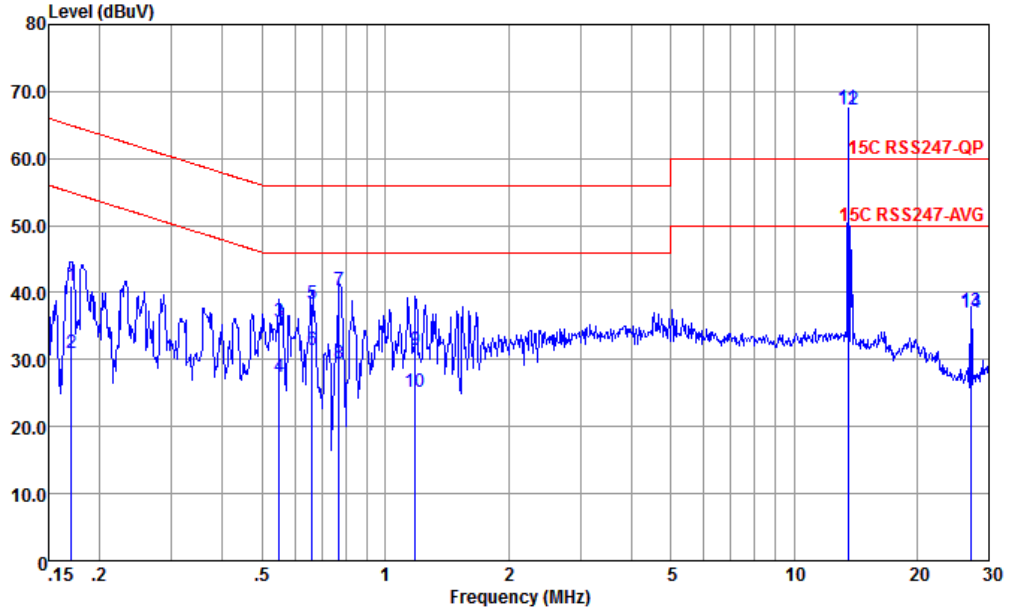
2.4GHz Band MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant7	Ant5	Worse + 3.01	Ant7	Ant5	Ant7	Ant5	
HE20	MCS0	2	1	2412	Full	-8.85	-9.71	-5.84	-3.33		8.00		Pass
HE20	MCS0	2	1	2412	26/0	-9.20	-9.83	-6.19	-3.33		8.00		Pass
HE20	MCS0	2	1	2412	52/37	-9.54	-9.80	-6.53	-3.33		8.00		Pass
HE20	MCS0	2	1	2412	106/53	-9.39	-10.08	-6.38	-3.33		8.00		Pass
HE20	MCS0	2	6	2437	Full	-3.08	-4.20	-0.07	-3.33		8.00		Pass
HE20	MCS0	2	11	2462	Full	-7.94	-8.41	-4.93	-3.33		8.00		Pass
HE20	MCS0	2	11	2462	26/8	-8.49	-9.08	-5.48	-3.33		8.00		Pass
HE20	MCS0	2	11	2462	52/40	-8.45	-9.34	-5.44	-3.33		8.00		Pass
HE20	MCS0	2	11	2462	106/54	-8.36	-8.95	-5.35	-3.33		8.00		Pass
HE40	MCS0	2	3	2422	Full	-11.44	-12.95	-8.43	-3.33		8.00		Pass
HE40	MCS0	2	6	2437	Full	-9.64	-11.45	-6.63	-3.33		8.00		Pass
HE40	MCS0	2	9	2452	Full	-14.51	-13.40	-10.39	-3.33		8.00		Pass

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



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit. 13.56MHz is NFC fundamental signal and verify in the NFC test report.		

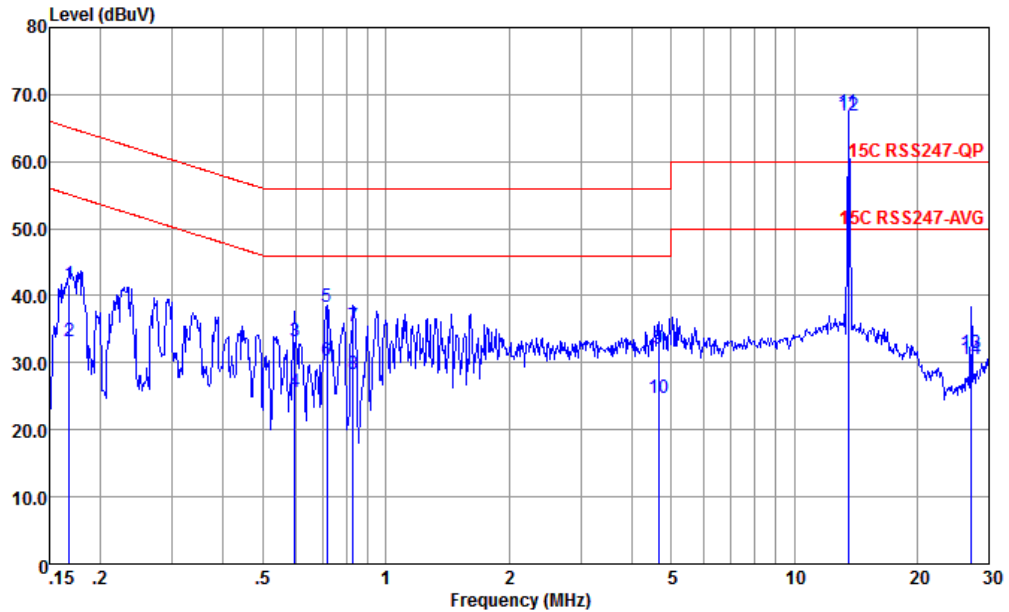


Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-L 2023 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.170	41.06	-23.88	64.94	30.60	0.04	10.42	QP
2	0.170	31.06	-23.88	54.94	20.60	0.04	10.42	Average
3	0.549	35.66	-20.34	56.00	25.50	-0.04	10.20	QP
4	0.549	27.36	-18.64	46.00	17.20	-0.04	10.20	Average
5	0.661	38.29	-17.71	56.00	28.20	-0.06	10.15	QP
6	0.661	31.39	-14.61	46.00	21.30	-0.06	10.15	Average
7	0.771	40.24	-15.76	56.00	30.20	-0.08	10.12	QP
8	0.771	29.34	-16.66	46.00	19.30	-0.08	10.12	Average
9	1.184	31.48	-24.52	56.00	21.50	-0.11	10.09	QP
10	1.184	25.18	-20.82	46.00	15.20	-0.11	10.09	Average
11 *	13.560	67.58			56.60	-0.13	11.11	QP
12 *	13.560	67.28			56.30	-0.13	11.11	Average
13	27.120	37.15	-22.85	60.00	25.89	-0.33	11.59	QP
14	27.120	36.95	-13.05	50.00	25.69	-0.33	11.59	Average



Test Engineer :	Amos	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit. 13.56MHz is NFC fundamental signal and verify in the NFC test report.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-N 2023 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.168	41.76	-23.32	65.08	31.30	0.04	10.42	QP
2	0.168	33.26	-21.82	55.08	22.80	0.04	10.42	Average
3	0.598	33.31	-22.69	56.00	23.20	-0.07	10.18	QP
4	0.598	25.61	-20.39	46.00	15.50	-0.07	10.18	Average
5	0.716	38.28	-17.72	56.00	28.21	-0.07	10.14	QP
6	0.716	30.36	-15.64	46.00	20.29	-0.07	10.14	Average
7	0.830	35.52	-20.48	56.00	25.49	-0.08	10.11	QP
8	0.830	28.32	-17.68	46.00	18.29	-0.08	10.11	Average
9	4.647	32.13	-23.87	56.00	22.20	-0.13	10.06	QP
10	4.647	24.83	-21.17	46.00	14.90	-0.13	10.06	Average
11 *	13.560	67.28			56.30	-0.13	11.11	QP
12 *	13.560	66.88			55.90	-0.13	11.11	Average
13	27.120	31.38	-28.62	60.00	20.20	-0.41	11.59	QP
14	27.120	30.48	-19.52	50.00	19.30	-0.41	11.59	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Shunping You	Relative Humidity :	50%
		Temperature :	23~24

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	CDD 5+7	802.11b	01	2412	1Mbps	-	-
Mode 2	2400-2483.5	CDD 5+7	802.11b	06	2437	1Mbps	-	-
Mode 3	2400-2483.5	CDD 5+7	802.11b	11	2462	1Mbps	-	-
Mode 4	2400-2483.5	CDD 5+7	802.11g	01	2412	6Mbps	-	-
Mode 5	2400-2483.5	CDD 5+7	802.11g	06	2437	6Mbps	-	-
Mode 6	2400-2483.5	CDD 5+7	802.11g	11	2462	6Mbps	-	-
Mode 7	2400-2483.5	CDD 5+7	802.11ax HE20	01	2412	MCS0	Full RU	-
Mode 8	2400-2483.5	CDD 5+7	802.11ax HE20	06	2437	MCS0	Full RU	-
Mode 9	2400-2483.5	CDD 5+7	802.11ax HE20	11	2462	MCS0	Full RU	-
Mode 10	2400-2483.5	CDD 5+7	802.11ax HE20	01	2412	MCS0	Partial_RU26/0	-
Mode 11	2400-2483.5	CDD 5+7	802.11ax HE20	01	2412	MCS0	Partial_RU52/37	-
Mode 12	2400-2483.5	CDD 5+7	802.11ax HE20	01	2412	MCS0	Partial_RU106/53	-
Mode 13	2400-2483.5	CDD 5+7	802.11ax HE20	11	2462	MCS0	Partial_RU26/8	-
Mode 14	2400-2483.5	CDD 5+7	802.11ax HE20	11	2462	MCS0	Partial_RU52/40	-
Mode 15	2400-2483.5	CDD 5+7	802.11ax HE20	11	2462	MCS0	Partial_RU106/54	-
Mode 16	2400-2483.5	CDD 5+7	802.11ax HE40	03	2422	MCS0	Full RU	-
Mode 17	2400-2483.5	CDD 5+7	802.11ax HE40	06	2437	MCS0	Full RU	-
Mode 18	2400-2483.5	CDD 5+7	802.11ax HE40	09	2452	MCS0	Full RU	-
Mode 19	2400-2483.5	CDD 5+7	802.11ax HE40	03	2422	MCS0	Full RU	-
Mode 20	2400-2483.5	CDD 5+7	802.11g	02	2417	6Mbps	-	-
Mode 21	2400-2483.5	CDD 5+7	802.11g	10	2457	6Mbps	-	-
Mode 22	2400-2483.5	CDD 5+7	802.11ax HE20	02	2417	MCS0	Full RU	-
Mode 23	2400-2483.5	CDD 5+7	802.11ax HE20	03	2422	MCS0	Full RU	-
Mode 24	2400-2483.5	CDD 5+7	802.11ax HE20	09	2452	MCS0	Full RU	-
Mode 25	2400-2483.5	CDD 5+7	802.11ax HE20	10	2457	MCS0	Full RU	-
Mode 26	2400-2483.5	CDD 5+7	802.11ax HE40	04	2427	MCS0	Full RU	-
Mode 27	2400-2483.5	CDD 5+7	802.11ax HE40	08	2447	MCS0	Full RU	-

<Co-location>

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 28	Co-location	4+6	5G NR n48 MIMO Link					-
		CDD 5+7	802.11ax HE40	3	2422	MCS0	-	-
Mode 29	Co-location	4+6	5G NR n48 MIMO Link					-
		5	802.11ax HE40	3	2422	MCS0	-	-
		7	Bluetooth LE	CH38	2478	2Mbps	-	-



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11b	01	2388.91	50.76	54.00	-3.24	H	AVERAGE	Pass	Band Edge
1	802.11b	01	4824.00	44.99	74.00	-29.01	H	Peak	Pass	Harmonic
2	802.11b	06	-	-	-	-	-	-	-	Band Edge
2	802.11b	06	4874.00	46.84	74.00	-27.16	H	Peak	Pass	Harmonic
3	802.11b	11	2483.51	50.42	54.00	-3.58	H	AVERAGE	Pass	Band Edge
3	802.11b	11	4924.00	47.43	54.00	-6.57	H	Average	Pass	Harmonic
4	802.11g	01	2389.95	50.00	54.00	-4.00	H	AVERAGE	Pass	Band Edge
4	802.11g	01	4824.00	41.16	74.00	-32.84	H	Peak	Pass	Harmonic
5	802.11g	06	-	-	-	-	-	-	-	Band Edge
5	802.11g	06	7311.00	43.67	74.00	-30.33	V	Peak	Pass	Harmonic
6	802.11g	11	2483.51	49.79	54.00	-4.21	H	AVERAGE	Pass	Band Edge
6	802.11g	11	7386.00	43.82	74.00	-30.18	V	Peak	Pass	Harmonic
7	802.11ax HE20	01	2389.56	50.76	54.00	-3.24	H	AVERAGE	Pass	Band Edge
7	802.11ax HE20	01	4824.00	41.14	74.00	-32.86	H	Peak	Pass	Harmonic
8	802.11ax HE20	06	-	-	-	-	-	-	-	Band Edge
8	802.11ax HE20	06	7311.00	44.59	74.00	-29.41	V	Peak	Pass	Harmonic
9	802.11ax HE20	11	2484.72	49.48	54.00	-4.52	H	AVERAGE	Pass	Band Edge
9	802.11ax HE20	11	7386.00	43.27	74.00	-30.73	V	Peak	Pass	Harmonic
10	802.11ax HE20	01	2388.65	41.37	54.00	-12.63	H	AVERAGE	Pass	Band Edge
10	802.11ax HE20	01	-	-	-	-	-	-	-	Harmonic
11	802.11ax HE20	01	2389.56	41.72	54.00	-12.28	H	AVERAGE	Pass	Band Edge
11	802.11ax HE20	01	-	-	-	-	-	-	-	Harmonic
12	802.11ax HE20	01	2389.82	42.95	54.00	-11.05	H	AVERAGE	Pass	Band Edge
12	802.11ax HE20	01	-	-	-	-	-	-	-	Harmonic
13	802.11ax HE20	11	2487.00	41.27	54.00	-12.73	H	AVERAGE	Pass	Band Edge
13	802.11ax HE20	11	-	-	-	-	-	-	-	Harmonic
14	802.11ax HE20	11	2484.08	43.00	54.00	-11.00	H	AVERAGE	Pass	Band Edge
14	802.11ax HE20	11	-	-	-	-	-	-	-	Harmonic
15	802.11ax HE20	11	2484.19	48.56	54.00	-5.44	H	AVERAGE	Pass	Band Edge
15	802.11ax HE20	11	-	-	-	-	-	-	-	Harmonic
16	802.11ax HE40	03	2388.51	50.98	54.00	-3.02	H	AVERAGE	Pass	Band Edge
16	802.11ax HE40	03	7266.00	43.72	74.00	-30.28	H	Peak	Pass	Harmonic
17	802.11ax HE40	06	2389.38	48.99	54.00	-5.01	H	AVERAGE	Pass	Band Edge
17	802.11ax HE40	06	7311.00	44.48	74.00	-29.52	H	Peak	Pass	Harmonic
18	802.11ax HE40	09	2484.54	50.59	54.00	-3.41	H	AVERAGE	Pass	Band Edge
18	802.11ax HE40	09	7356.00	44.09	74.00	-29.91	H	Peak	Pass	Harmonic
19	802.11ax HE40	03	938.89	29.65	46	-16.35	H	Peak	Pass	LF
20	802.11g	02	2389.43	49.77	54.00	-4.23	H	AVERAGE	Pass	Band Edge
20	802.11g	02	-	-	-	-	-	-	-	Harmonic
21	802.11g	10	2483.83	49.32	54.00	-4.68	H	AVERAGE	Pass	Band Edge
21	802.11g	10	-	-	-	-	-	-	-	Harmonic
22	802.11ax HE20	02	2389.82	50.44	54.00	-3.56	H	AVERAGE	Pass	Band Edge
22	802.11ax HE20	02	-	-	-	-	-	-	-	Harmonic
23	802.11ax HE20	03	2389.04	50.36	54.00	-3.64	H	AVERAGE	Pass	Band Edge

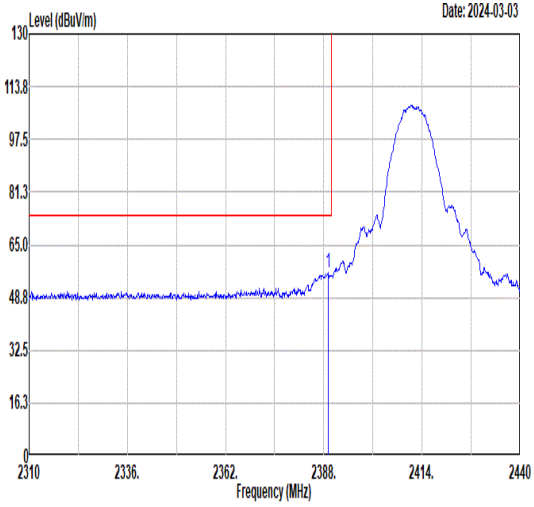
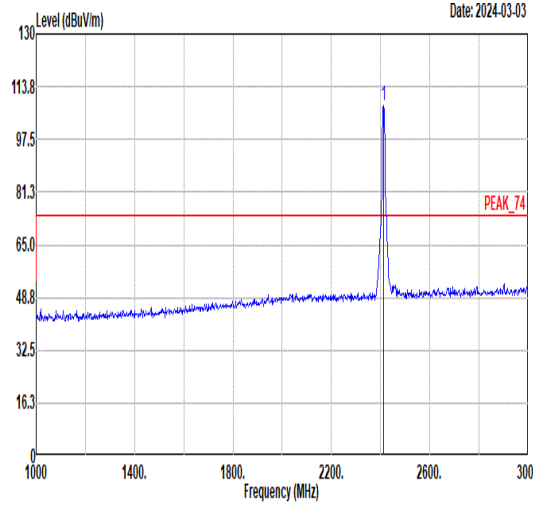
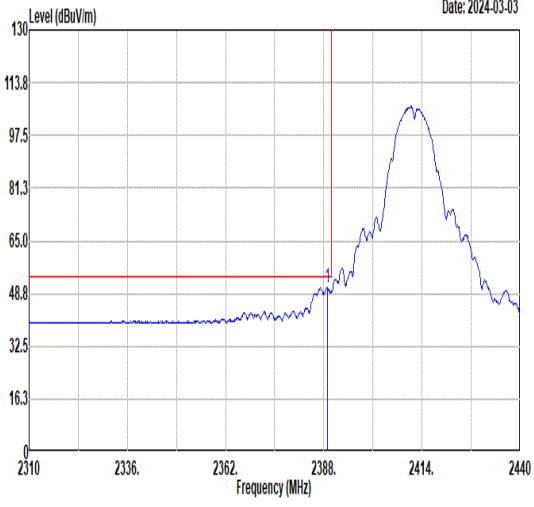
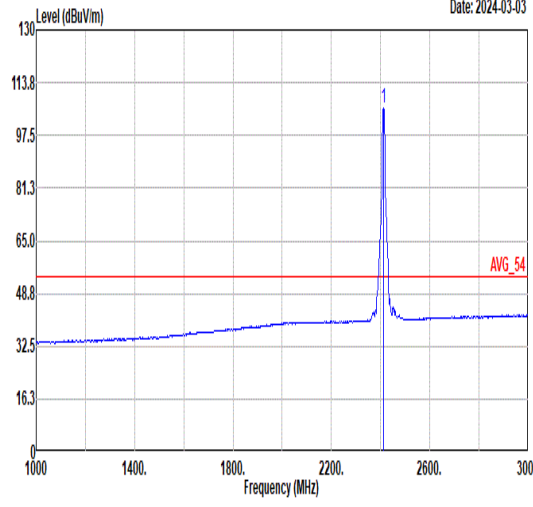


23	802.11ax HE20	03	-	-	-	-	-	-	-	Harmonic
24	802.11ax HE20	09	2483.73	50.76	54.00	-3.24	H	AVERAGE	Pass	Band Edge
24	802.11ax HE20	09	-	-	-	-	-	-	-	Harmonic
25	802.11ax HE20	10	2483.53	49.38	54.00	-4.62	H	AVERAGE	Pass	Band Edge
25	802.11ax HE20	10	-	-	-	-	-	-	-	Harmonic
26	802.11ax HE40	04	2389.41	50.73	54.00	-3.27	H	AVERAGE	Pass	Band Edge
26	802.11ax HE40	04	-	-	-	-	-	-	-	Harmonic
27	802.11ax HE40	08	2483.52	50.97	54.00	-3.03	H	AVERAGE	Pass	Band Edge
27	802.11ax HE40	08	-	-	-	-	-	-	-	Harmonic

<Co-location>

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
28	Co-location	3	2389.38	50.81	54.00	-3.19	H	Average	Pass	Band Edge
28		3	7266.00	49.00	74.00	-25.00	H	Peak	Pass	Harmonic
29	Co-location	3	2389.94	48.11	54.00	-5.89	H	Average	Pass	Band Edge
29		3+38	7434	48.51	74.00	-25.49	V	Peak	Pass	Harmonic



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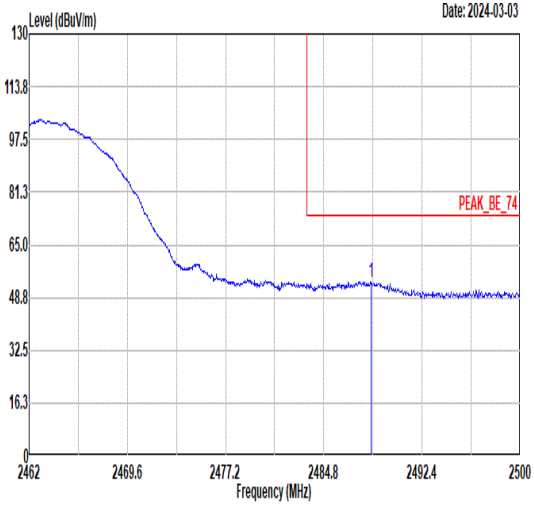
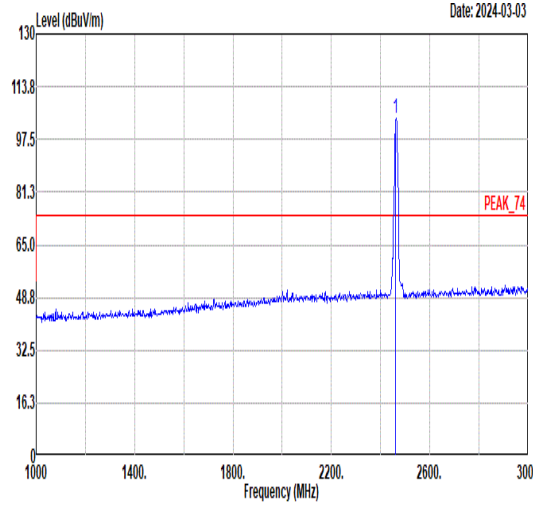
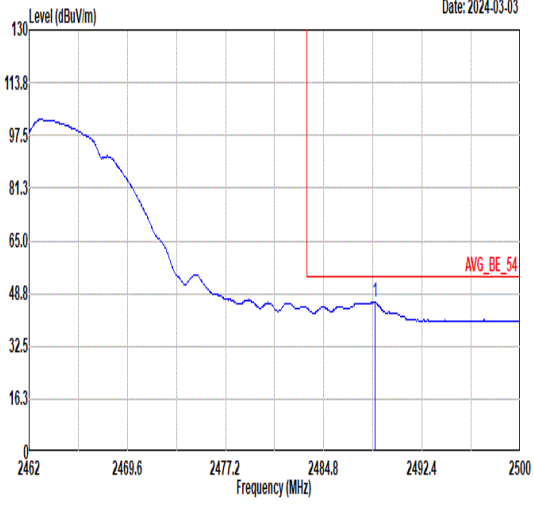
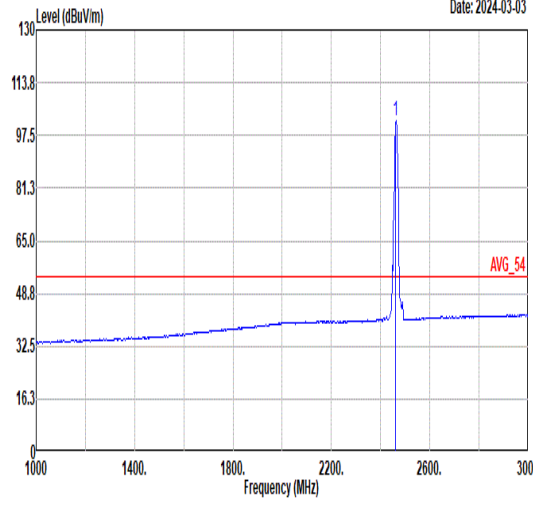


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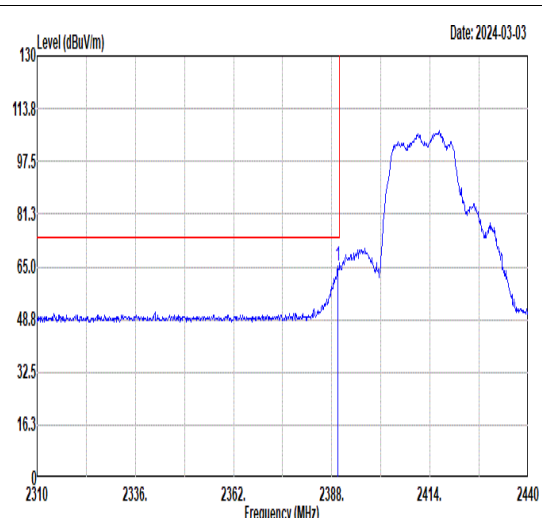
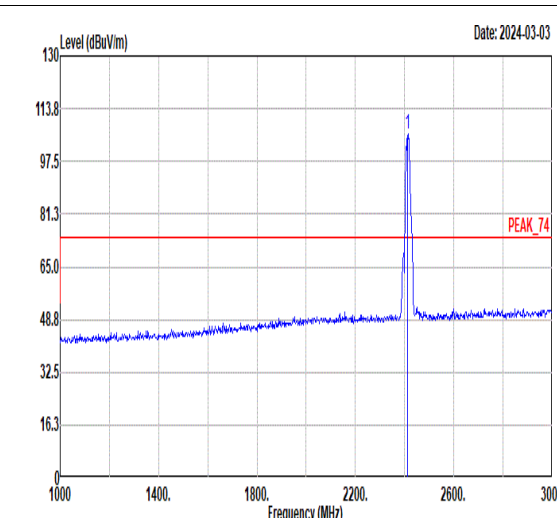
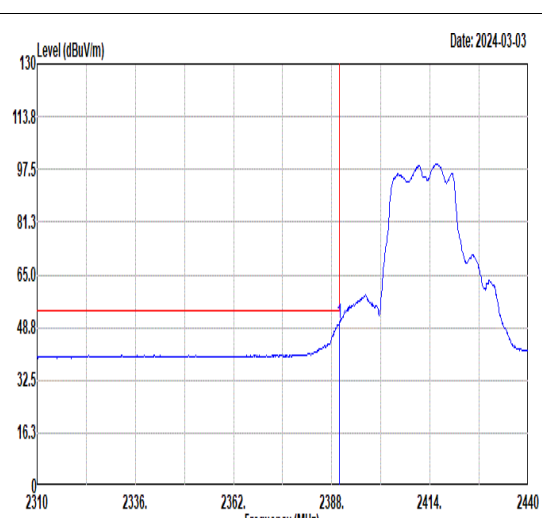
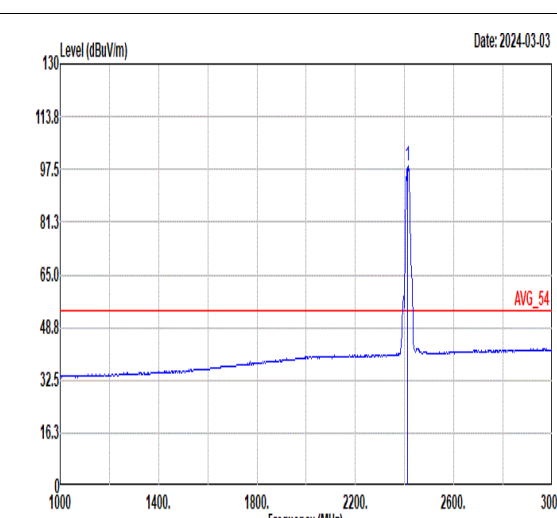


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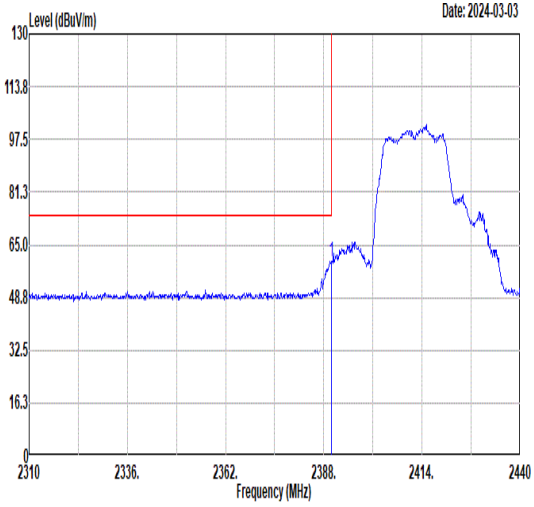
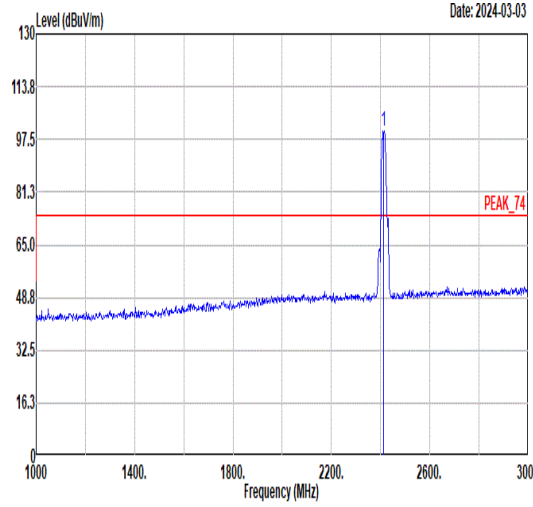
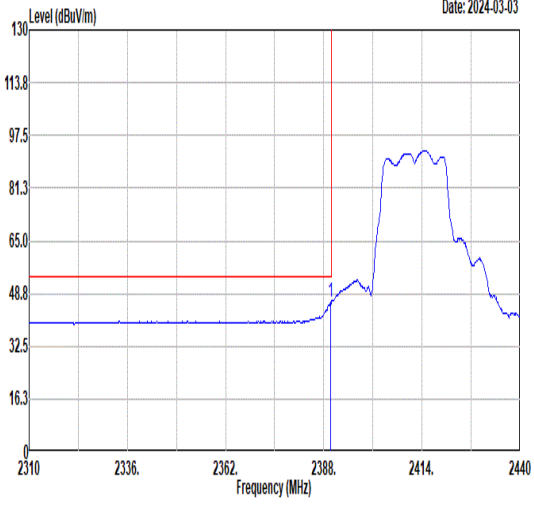
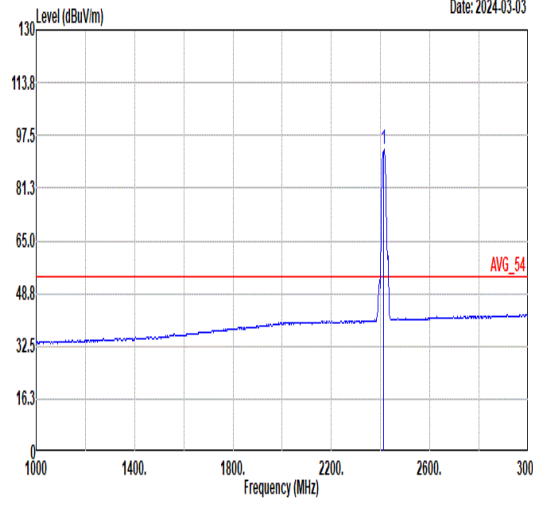


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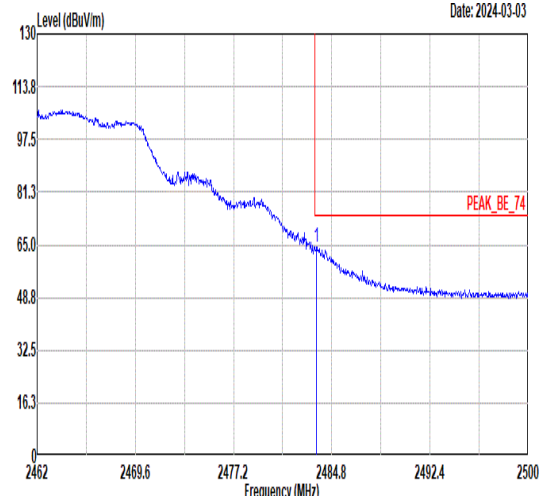
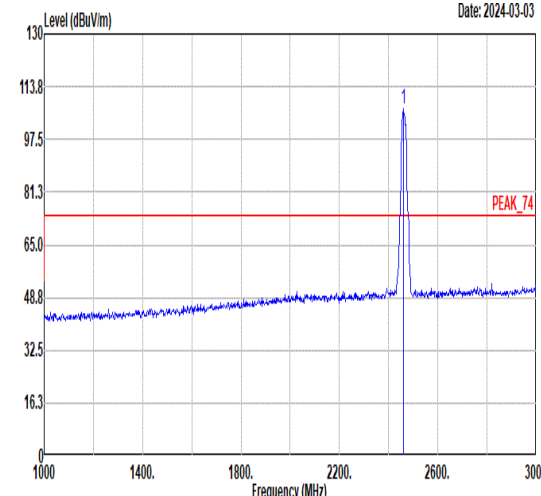
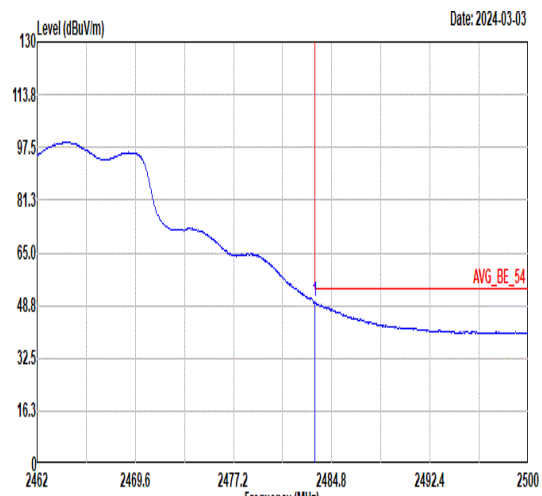
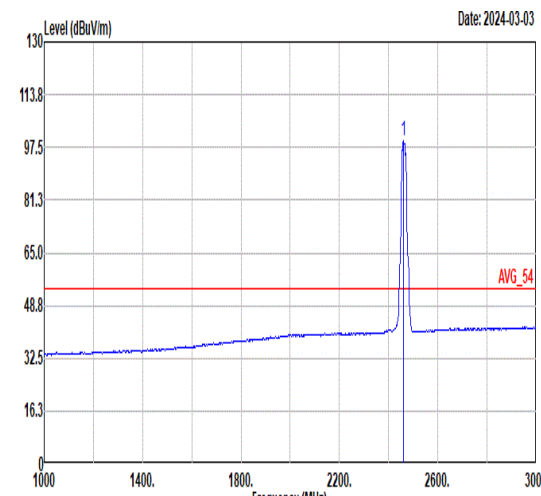


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