Japan Radio Test Report

Project No.	:	2512H044
Equipment	:	Floor Cleaning Robot
Brand Name	:	ECOVACS
Model Name	:	DDX47
Applicant	:	Ecovacs Home Service Robotics Co., Ltd.
Address	:	No.518 Songwei Road,Wusongjiang industry Park,Guoxiang Street, Wuzhong District,Suzhou, Jiangsu,China.
Manufacturer	:	Ecovacs Home Service Robotics Co., Ltd.
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Factory	:	Ecovacs Home Service Robotics Co., Ltd.
Address	:	No.518 Songwei Road,Wusongjiang industry Park,Guoxiang Street, Wuzhong District,Suzhou, Jiangsu,China.
Date of Receipt	:	Dec. 22, 2025
Date of Test	:	Dec. 22, 2025~Dec. 24, 2025
Issued Date	:	Jan. 21, 2026
Test Sample	:	Engineering Sample No.: SH92025122264
Standard(s)	:	Ordinance Regulating Radio Equipment General Provisions, Transmitting Equipment, Receiving Equipment, Article 49-20
Test Procedure	:	Test Method Specified Radio Equipment Article 2 Paragraph 1 of item19 (MIC Notice No.88 Appendix No.43)

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Shanghai)

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

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BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.
Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-JPAP-1-2512H044	R00	Original Report.	Jan. 12, 2026	Invalid
BTL-JPAP-1-2512H044	R01	This report updated antenna gain. It is a revision of the report with serial number BTL-JPAP-1-2512H04 R00. This is a newly released report, replacing the BTL-JPAP-1-2512H04 R00 report.	Jan. 21, 2026	Valid

1. SUMMARY OF TEST RESULTS

Part	Description of Test	Rule Section	Result
3.1	Frequency Tolerance	Article 5, Annex 1	Pass
3.2	Occupied Bandwidth (99%)	Article 6, Annex 2	Pass
3.3	Unwanted Emission Intensity	Article 7, Annex 3	Pass
3.4	Antenna Power Tolerance	Article 14	Pass
3.5	Limitation of Collateral Emission of Receiver	Article 24, Paragraph 2	Pass
3.6	Transmission Antenna Gain (EIRP Antenna Power)	Article 49-20	N/A
3.7	Transmission Radiation Angle Width (3dB Beamwidth)	Article 49-20	N/A
3.8	Radio Interference Prevention Capability	Article 9-4, Item 5 Article 6-2, Item 3 and 5 of the Regulation for Enforcement of the Radio Law	Pass
3.9	Carrier Sense Capability	Article 49-20	Pass
3.10	Construction Protection Confirmation	Article 49-20	Pass

Method of measurement:	MIC Notice No.88 Appendix No.43
Test condition:	Conductive, RF test program provided by the customer was used to control the operating channel as well as the output power level.

Abbreviations used in this test report are as follows:

NC:	Normal Condition
EC:	Extreme Condition
EUT:	Equipment Under Test
DS:	Direct spreading
FH:	Frequency hopping
OFDM:	Orthogonal frequency division multiplexing

1.1. TEST FACILITY

The test facilities used to collect the test data in this report:
TR02: No. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210, People's Republic of China.

1.2. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Frequency Tolerance	±0.1536 Hz
Antenna Power	±0.3473 dB
Occupied Bandwidth	±0.07%
Unwanted Emission Strength	±0.3792 dB
Adjacent Channel Emitted Power	±0.6052 dB
Temperature	±0.3℃
Humidity	±1.3 %
Voltage	±0.7 v

1.3. TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
Frequency Tolerance	19°C	50%	DC 14V	Thacker Tang
Occupied Bandwidth (99%)	19°C	50%	DC 14V	Thacker Tang
Unwanted Emission Intensity	19°C	50%	DC 14V	Thacker Tang
Antenna Power Tolerance	19°C	50%	DC 14V	Thacker Tang
Limitation of Collateral Emission of Receiver	19°C	50%	DC 14V	Thacker Tang
Carrier Sense Capability	19°C	50%	DC 14V	Thacker Tang

2. GENERAL INFORMATION

2.1. GENERAL DESCRIPTION OF EUT

Equipment	Floor Cleaning Robot
Brand Name	ECOVACS
Test Model	DDX47
Model Name	DDX47
Model Difference(s)	N/A
Hardware Version	N/A
Software Version	N/A
Power Source	DC voltage supplied from AC/DC adapter Brand/ Model: ECOVACS/CH2453M Battery supplied. Model:S10-LI-144-5200
Power Rating	IP:100V~ 50-60Hz 4.5A (during debris collection) 1.2A (during mop drying) 10A (for warm water cleaning mop) 1A (during charging) OP:20VDC 1A Nominal Voltage: 14.4V Max Charge Voltage: 16.6V Nominal Capacity: 5200mAh Nominal Energy: 74.88Wh Rated Capacity:4800mAh Rated Energy:69.12Wh
Operation Frequency	2412 MHz ~ 2472 MHz
Modulation Technology	IEEE 802.11b:DSSS IEEE 802.11g/n:OFDM
Numbers of subcarriers of OFDM	3/MHz
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 150 Mbps
Occupied Bandwidth	36.18 MHz
Antenna Power (Rated Power)	IEEE 802.11b: 4.80 mW/MHz IEEE 802.11g: 2.47 mW/MHz IEEE 802.11n(HT20): 2.32 mW/MHz IEEE 802.11n(HT40): 0.88 mW/MHz
Antenna Power (Max. Conducted Power)	IEEE 802.11b: 4.7973 mW/MHz IEEE 802.11g: 2.4660 mW/MHz IEEE 802.11n(HT20): 2.3174 mW/MHz IEEE 802.11n(HT40): 0.8750 mW/MHz

Note:

1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

2. Channel List:

CH01 - CH13 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20) CH03 - CH11 for IEEE 802.11n(HT40)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	06	2437	11	2462
02	2417	07	2442	12	2467
03	2422	08	2447	13	2472
04	2427	09	2452		
05	2432	10	2457		

3. Table for Filed Antenna:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain(dBi)
1	FN-LINK TECHNOLOGY Ltd.	4A8-1100-2400	FPC	IPEX	2.56

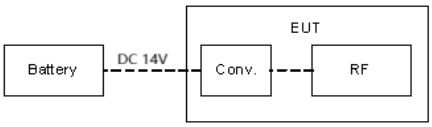
1) The antenna gain is provided by the manufacturer.

2.2. DESCRIPTION OF TEST MODES

The EUT was tested while in a continuous transmitter / receiver mode.
The EUT was tuned to a low, middle and high channel for all tests.
The EUT continuously transmitted a modulated packet with payload, while transmitting the EUT was setup to operate at the intended maximum power output available to the end user.
For all test case pre/scans were completed in all modes to determine worst case levels.

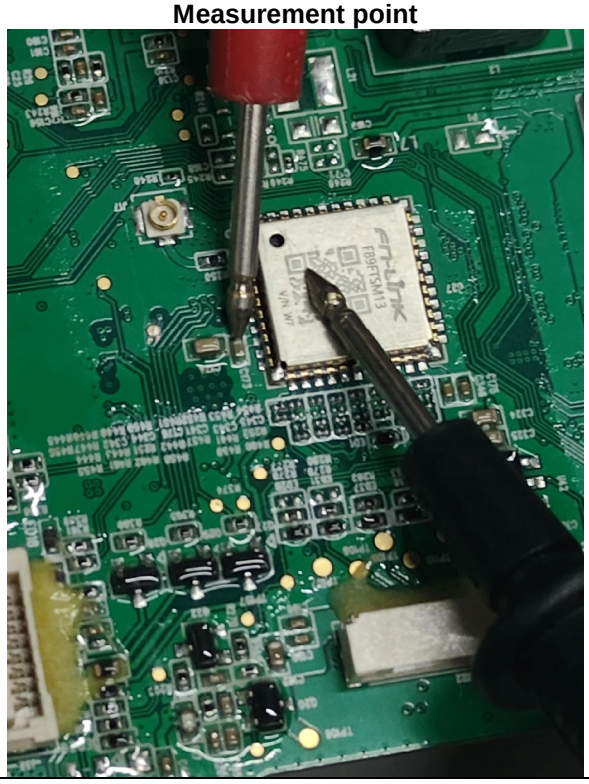
Test Mode	Description
Mode 1	IEEE 802.11b/CH01,CH07,CH13
Mode 2	IEEE 802.11g/CH01,CH07,CH13
Mode 3	IEEE 802.11n(HT20)/CH01,CH07,CH13
Mode 4	IEEE 802.11n(HT40)/CH03,CH07,CH11

Power Supply Voltage Fluctuation Test



Voltage Fluctuation Test	Normal Voltage	High Voltage + 10% of Normal Voltage	Low Voltage - 10% of Normal Voltage
Input: DC Power	14V	15.4V	12.6V
Output: DC Power	3.29V	3.29V	3.29V
Voltage Variation (%)	-	0	0

Measurement point

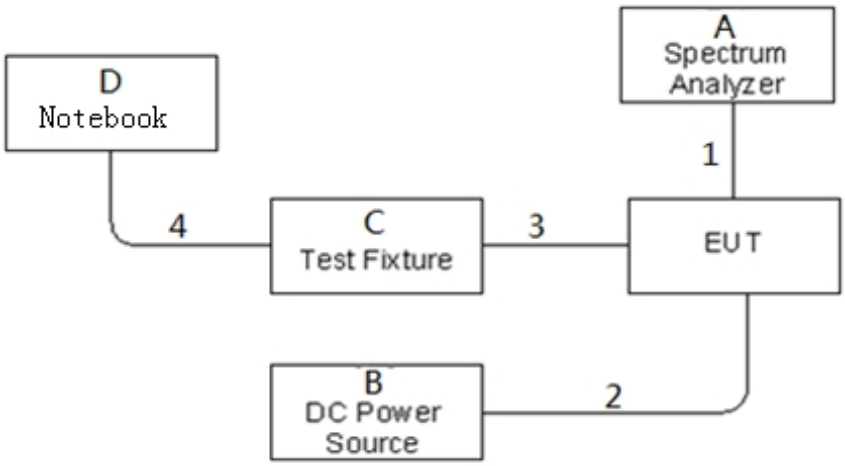


Note:

Voltage Variation (%)
= (Output High Voltage or Low Voltage - Output Normal Voltage)/Output Normal Voltage * 100

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/- 1%.
Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

2.3. BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.4. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
A	EXA Spectrum Analyzer	Keysight	N9020B	MY57120173
B	DC Power Supply	GW Instek	GPC-3030DN	EK880675
C	Test Fixture	N/A	N/A	N/A
D	PC	DELL	N/A	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	RF CABLE	YES	NO	0.1m
2	DC POWER CABLE	YES	NO	1.2m
3	CONTROL CABLE	NO	NO	0.1m
4	USB CABLE	NO	NO	1.1m

2.5. TABLE FOR PARAMETERS OF TEST SOFTWARE SETTING

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level.

Test Software Version	IPOP V4.0		
Frequency (MHz)	2412	2442	2472
IEEE 802.11b	Default	Default	Default
IEEE 802.11g	Default	Default	Default
IEEE 802.11n(HT20)	Default	Default	Default
Frequency (MHz)	2422	2442	2462
IEEE 802.11n(HT40)	Default	Default	Default

3. TEST RESULTS

3.1. FREQUENCY TOLERANCE MEASUREMENT

3.1.1. LIMIT

Item	Limits (See Article 5 and Annex 1 table 7-8 of the Ordinance Regulating Radio Equipment)
Frequency Tolerance	-50≤ppm≤50

3.1.2. SETTING

The following table is the setting of the spectrum analyzer.

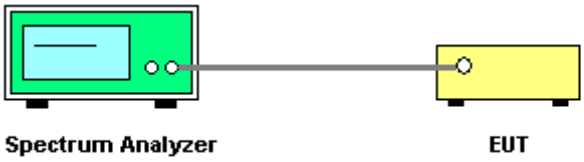
Spectrum Parameter	Setting
Span	200kHz
RBW / VBW	10kHz / 10kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.1.3. TEST PROCEDURES

Test method according to Clause 3 of Annex No.43 of MIC Notification No.88.

1. Frequency accuracy of SA shall be less than 10% of limits tolerance (5ppm).
2. Set spectrum analyzer with condition in section 3.1.2 and tune reference level to observe receiving signal position.
3. Center Frequency: The center frequency of testing for EUT.
4. EUT have transmitted absence of modulation signal and fixed channelize. f is using the mark cursor to mark the peak frequency value, fc is declaring of channel frequency.
   Then the frequency error formula is $(fc-f)/fc\times10^6$ ppm and the limit is less than ±50ppm.

3.1.4. TEST SETUP LAYOUT



3.1.5. TEST DEVIATION

There is no deviation with the original standard.

3.1.6. EUT OPERATION DURING TEST

The EUT was programmed to be in un-modulation mode.

3.1.7. TEST RESULTS

Please refer to the Appendix A.

3.2. OCCUPIED BANDWIDTH MEASUREMENT

3.2.1. LIMIT

Item	Limits (See Article 6 and Annex 2 30 of the Ordinance Regulating Radio Equipment)
Occupied Bandwidth	DSSS and OFDM (20MHz systems)≤26MHz; OFDM (40MHz systems)≤40MHz

3.2.2. SETTING

The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Span	20MHz systems: 60MHz 40MHz systems: 100MHz
RBW / VBW	300kHz / 300kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.2.3. TEST PROCEDURES

Test method according to Clause 4 of Annex No.43 of MIC Notification No.88.

1. Set spectrum analyzer with condition in section 3.2.2 and tune reference level to observe receiving signal position.
2. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26MHz (For DSSS or OFDM 20MHz systems) or 40MHz(For OFDM 40MHz systems).

3.2.4. TEST SETUP LAYOUT

3.2.5. TEST DEVIATION

There is no deviation with the original standard.

3.2.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

3.2.7. TEST RESULTS

Please refer to the Appendix B.

3.3. UNWANTED EMISSION INTENSITY MEASUREMENT

3.3.1. LIMIT

Item	Limits (See Article 7 and Annex 3 26 of the Ordinance Regulating Radio Equipment)
TX Spurious Emission	≤2.5 μW/MHz (30MHz≤f≤1000MHz)
	≤2.5 μW/MHz (1000MHz≤f<2387MHz; 2496.5MHz<f)
	≤25 μW/MHz (2387MHz≤f<2400MHz) and (2483.5MHz<f≤2496.5MHz)
Measurement range: 30MHz~5th harmonics	

3.3.2. SETTING

The following table is the setting of spectrum analyzer.

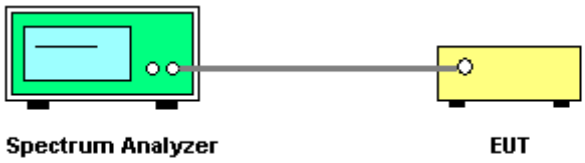
Spectrum Parameter	Setting
RBW / VBW	100kHz / 100kHz (30~1000MHz) 1 MHz / 1 MHz (Above 1000MHz)
Detector	Positive Peak
Trace	Max Hold
Sweep Time	Auto

3.3.3. TEST PROCEDURES

Test method according to Clause 5 of Annex No.43 of MIC Notification No.88.

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Set spectrum analyzer with condition in section 3.3.2 and tune reference level to observe receiving signal position.
3. SA adjusted to start frequency 30MHz and stop frequency 1000MHz. Then to mark peak reading value + cable loss shall be less than 2.5 μW/MHz.
4. SA adjusted to start frequency 1000MHz and stop frequency 2387MHz. Then to mark peak reading value + cable loss shall be less than 2.5μW/MHz.
5. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25μW/MHz.
6. SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz. Then to mark peak reading value + cable loss shall be less than 25μW/MHz.
7. SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz. Then to mark peak reading value + cable loss shall be less than 2.5μW/MHz.
8. If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like time domain power measurement as Result_Value.

3.3.4. TEST SETUP LAYOUT



3.3.5. TEST DEVIATION

There is no deviation with the original standard.

3.3.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

Note:

※ 1: Frequency Band 1 (30MHz≤f≤1000MHz)
※ 2: Frequency Band 2 (1000MHz≤f<2387MHz)
※ 3: Frequency Band 3 (2387MHz≤f<2400MHz)
※ 4: Frequency Band 4 (2483.5MHz<f≤2496.5MHz)
※ 5: Frequency Band 5 (2496.5MHz<f)

Band	1	2	3	4	5
Cable Loss(dB)	0.5	0.5	0.5	0.5	0.5

3.3.7. TEST RESULTS

Please refer to the Appendix C.

3.4. ANTENNA POWER TOLERANCE MEASUREMENT

3.4.1. LIMIT

Item	Limits (See Article 14 table 8 and Article 49-20 of the Ordinance Regulating Radio Equipment)	
Modulation Technology	DSSS and OFDM (20MHz systems)	OFDM (40MHz systems)
Antenna Power	10 mW/MHz or less	5 mW/MHz or less
EIRP	12.14 - 22.14 dBm/MHz or less	9.13 - 19.13 dBm/MHz or less
Antenna Power Tolerance	+20% (Base on manufacturer declare antenna power)	

3.4.2. SETTING

The following table is the setting of the spectrum analyzer.

Step 1:

Spectrum Parameter	Setting
Span	50MHz
RBW / VBW	1MHz / 3MHz
Detector	Positive Peak
Trace	Max Hold
Sweep Time	Auto

Step 3:

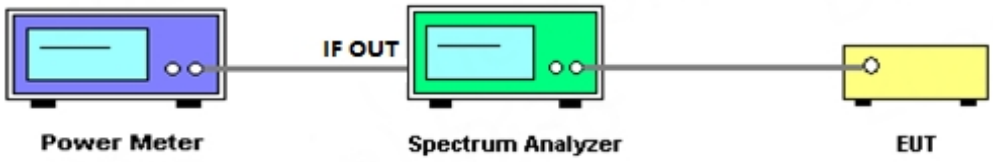
Spectrum Parameter	Setting
Span	0Hz
RBW / VBW	1MHz / 1MHz
Detector	Positive Peak
Trace	Max Hold
Sweep Time	60s

3.4.3. TEST PROCEDURES

Test method according to Clause 6 of Annex No.43 of MIC Notification No.88.

1. Set spectrum analyzer with condition in section 3.4.2 Step 1 and tune reference level to observe receiving signal position.
2. When the trace is complete, find the peak value of the power envelope and record the frequency.
3. Set spectrum analyzer with condition in section 3.4.2 Step 3 and tune reference level to observe receiving signal position.
4. Connect the high frequency power meter to the IF output terminal of the spectrum analyzer, measure the equivalent noise bandwidth at the resolution bandwidth of 1 MHz of the spectrum analyzer, correct the bandwidth to the 1 MHz equivalent bandwidth, and read the displayed value from the high frequency power meter.

3.4.4. TEST SETUP LAYOUT



3.4.5. TEST DEVIATION

There is no deviation with the original standard.

3.4.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

3.4.7. TEST RESULTS

Please refer to the Appendix D.

3.5. LIMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT

3.5.1. LIMIT

Item	Limits (See Article 24, Paragraph 2 of the Ordinance Regulating Radio Equipment)
RX Spurious Emission	≤4 nW (-54 dBm) (f<1GHz)
	≤20 nW (-47 dBm) (1GHz≤f)
Measurement range: 30MHz~5th harmonics	

3.5.2. SETTING

The following table is the setting of spectrum analyzer.

Spectrum Parameter	Setting
RBW / VBW	100kHz / 100kHz (30~1000MHz) 1 MHz / 1 MHz (Above 1000MHz)
Detector	Positive Peak
Trace	Max Hold
Sweep Time	Auto

3.5.3. TEST PROCEDURES

Test method according to Clause 7 of Annex No.43 of MIC Notification No.88.

1. EUT have the continuous reception mode and fixed only one channelize.
2. Set spectrum analyzer with condition in section 3.5.2 and tune reference level to observe receiving signal position.
3. SA set RBW: 100kHz and VBW: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW.
4. SA set RBW: 1MHz and VBW: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW.

3.5.4. TEST SETUP LAYOUT

3.5.5. TEST DEVIATION

There is no deviation with the original standard.

3.5.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously receiving mode.

Note:

※ 6: Frequency Band 6 (f<1GHz)

※ 7: Frequency Band 7 (1GHz≤f)

Band	6	7
Cable Loss(dB)	0.5	0.5

3.5.7. TEST RESULTS

Please refer to the Appendix E.

3.6. TRANSMISSION ANTENNA GAIN (EIRP ANTENNA POWER) MEASUREMENT

3.6.1. LIMIT

Item	Limits (See Article 49-20 of the Ordinance Regulating Radio Equipment)
Transmission Antenna Gain	12.14 dBi or less (When an E.I.R.P. is less than the limit, the shortage can be compensated for by the gain of the transmitting antenna.)

3.6.2. SETTING

The following table is the setting of spectrum analyzer.

Spectrum Analyzer	Setting
Span	0Hz
RBW / VBW	1MHz / 1MHz
Detector	Positive Peak
Trace	Max Hold
Sweep Time	Auto

3.6.3. TEST PROCEDURES

Test method according to Clause 10 of Annex No.43 of MIC Notification No.88.

1. Set EUT and measuring antenna at the same height (1.5 m) and roughly facing each other. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Set spectrum analyzer with condition in section 3.6.2 and tune reference level to observe receving signal position. Center Frequency: Provide maximum power frequency.
3. Rotate directions of the EUT horizontally and ertically to find the maximum receiving power.
4. Move the measuring antenna height up and down within ± 50cm of EUT height and swing it to find the maximum output of measuing antenna. The output level at the spectrum analyzer is read as "E".
5. Keeping the worst measuring antenna height and turntable angle unchanged, remove the EUT from the turntable and replace it with SG and a replacement standard antenna. Align the replacement antenna with the measuring antenna, and SG sends radio waves of the same frequency as the EUT. Adjust the replacement antenna to the maximum received power.
6. Move the measuring antenna height up and down within ± 50cm, maintain the worst height, and adjust the output power of SG to achieve the power value "E" in step 4 of the spectrum analyzer.
7. Calculate EIRP by the formula below.

   $EIRP = G_S - L_F + P_S$

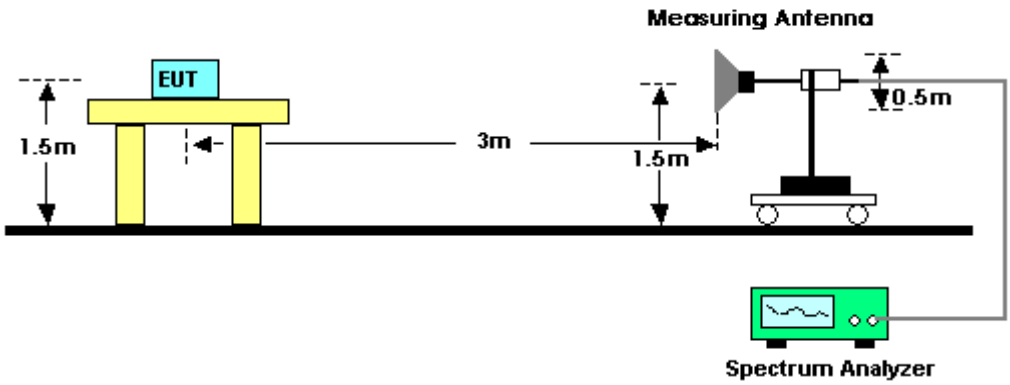
   G_S: Gain of replacement antenna (dBi)

   L_F: Cable loss between SG and replacement antenna (dB)

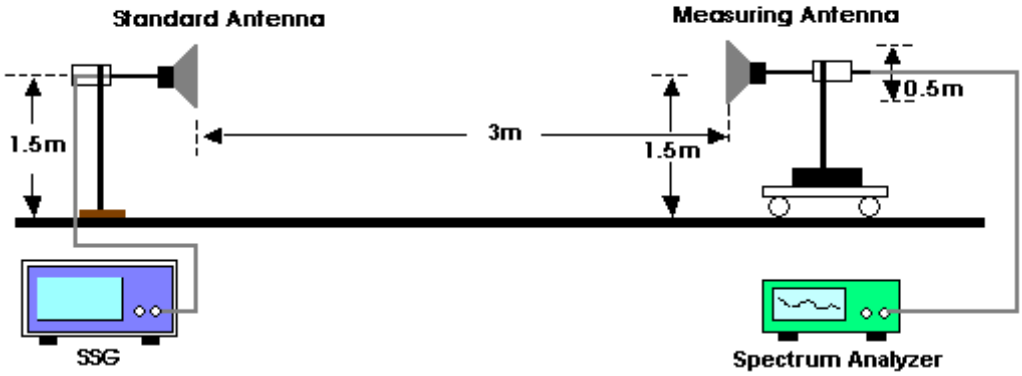
   P_S: Output power of SG output port (dBm)

3.6.4. TEST SETUP LAYOUT

For EUT radiation measurement



For standard antenna measurement



3.6.5. TEST DEVIATION

There is no deviation with the original standard.

3.6.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

3.6.7. RESULTS OF TRANSMISSION ANTENNA GAIN (EIRP ANTENNA POWER)

Method of measurement:	See MIC Notice No.88 Appendix No.43 Clause 10
Results:	N/A

3.7. TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH) MEASUREMENT

3.7.1. LIMIT

Item	Limits (See Article 49-20 of the Ordinance Regulating Radio Equipment)
3dB antenna beam width	360°/A (if A<1; then A=1) A=EIRP Power [mW]/16.36 [mW] for DSSS and OFDM (20MHz systems), or A= EIRP Power [mW]/8.18 [mW] for OFDM (40MHz systems)

3.7.2. SETTING

The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Span	0Hz
RBW / VBW	1MHz / 1kHz
Y scale	5dB
Detector	Peak
Trace	Max Hold

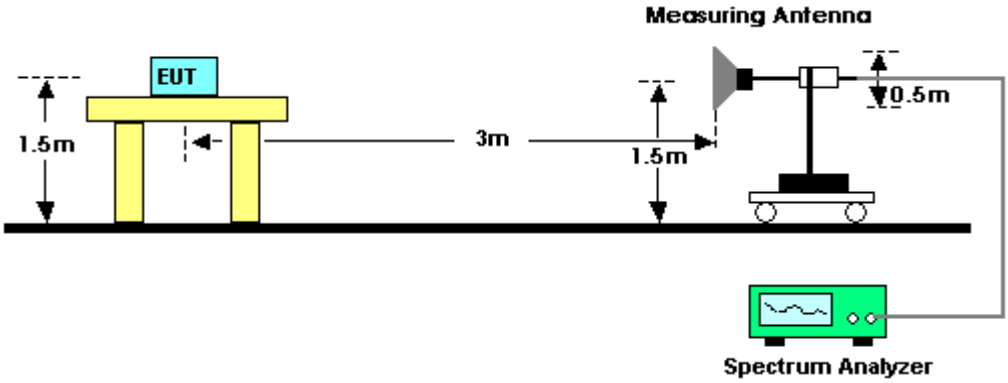
3.7.3. TEST PROCEDURES

Test method according to Clause 11 of Annex No.43 of MIC Notification No.88.

1. Set EUT and measuring antenna at the same height (1.5 m) and roughly facing each other. EUT have transmitted absence of modulation signal and fixed channelize.
2. Set spectrum analyzer with condition in section 3.7.2 and tune reference level to observe receving signal position. Center Frequency: The center frequency of testing for EUT.
3. Rotate directions of the EUT horizontally and ertically to find the maximum receiving power.
4. Move the measuring antenna height up and down within ± 50cm of EUT height and swing it to find the maximum output of measuing antenna. The output level at the spectrum analyzer is read as "E".
5. Using the EIRP measured in section 3.6.3, calculate the allowable angles Θ_0 of the EUT's main radiation in the horizontal and vertical directions using the following formula.
   Θ_0 = 360° / A
   Θ_0: The allowable angle of the main radiation of EUT transmission antenna (°)
   A: EIRP Power [mW] / 16.36 or 8.18 [mW] (If A<1; then A=1)
6. Rotate the EUT in the horizontal direction, reducing the angle of the rotating table by 3 dB from the maximum point of received power "E" (θ_h: Measure the half angle of the horizontal plane).
7. Place the EUT horizontally and rotate it as much as possible around the entire circumference from the main radiation direction Θ_0 to the radiation angle other than the one calculated in step 5, ensuring that the received power drops by more than 3dB from the maximum point "E" of the received power.

8. Vertical tilt EUT, measuring the angle from the horizontal plane when the received power drops by 3dB from the maximum point "E" (θ_v: The half value angle of the vertical plane).
9. After returning the test equipment to position 3, the angle of the main radiation calculated from the direction of the main radiation Θ_0 should be inclined along the vertical plane direction at the widest possible angle (set at 90 degrees or above) for other radiation angles, ensuring that the received power drops by more than 3dB from the maximum point "E" of the received power.

3.7.4. TEST SETUP LAYOUT



3.7.5. TEST DEVIATION

There is no deviation with the original standard.

3.7.6. EUT OPERATION DURING TEST

The EUT was programmed to be in un-modulation mode.

3.7.7. TEST RESULT OF TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH)

Method of measurement:	See MIC Notice No.88 Appendix No.43 Clause 11
Results:	N/A

3.8. RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT

3.8.1. LIMIT

Item	Limits (See Article 9-4 Item 5 of the Ordinance Regulating Radio Equipment and Article 6-2 Item 3 of the Regulation for Enforcement of the Radio Law)
Identification code	The wireless equipment of the radio station mainly used in the same station automatically sends or receives the identification code.

3.8.2. MEASURING ID CODE SOFTWARE

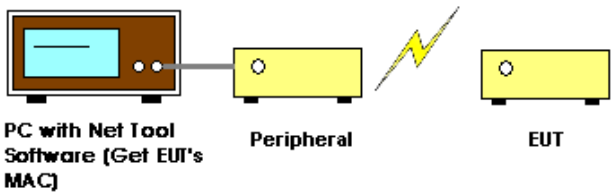
PC with Net Tool	Setting
MAC IP List	MAC Scan

3.8.3. TEST PROCEDURES

Test method according to Clause 23 of Annex No.43 of MIC Notification No.88.

1. In the case that the EUT has the function of automatically transmitting the identification code:
   a. Transmit the predetermined identification codes form EUT.
   b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code:
   a. Transmit the predetermined identification codes form the counterpart.
   b. Check if communication is normal.
   c. Transmit the signals other than predetermined ID codes form the counterpart.
   d. Check if the EUT stops the transmission, or if it displays that idnetification codes are different from the predetermined ones.

3.8.4. TEST SETUP LAYOUT



3.8.5. TEST DEVIATION

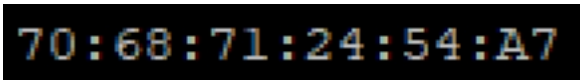
There is no deviation with the original standard.

3.8.6. EUT OPERATION DURING TEST

The EUT was programmed to be in normal mode.

3.8.7. TEST RESULT OF RADIO INTERFERENCE PREVENTION CAPABILITY

Test Power:	Normal Voltage
Test Mode:	IEEE 802.11b
Test Result:	Pass (identification code: [70:68:71:24:54:A7])



3.9. CARRIER SENSE CAPABILITY MEASUREMENT

3.9.1. LIMIT

Item	Limits (See Article 49-20 of the Ordinance Regulating Radio Equipment)
Carrier Sense	Pass - EUT stop RF transmission signal after carrier inject to EUT. (On 22.79+Gr-20*log(f)[dBm] (Gr: dBi; f: MHz) or 100mV/m)

3.9.2. SETTING

The following table is the setting of the spectrum analyzer.

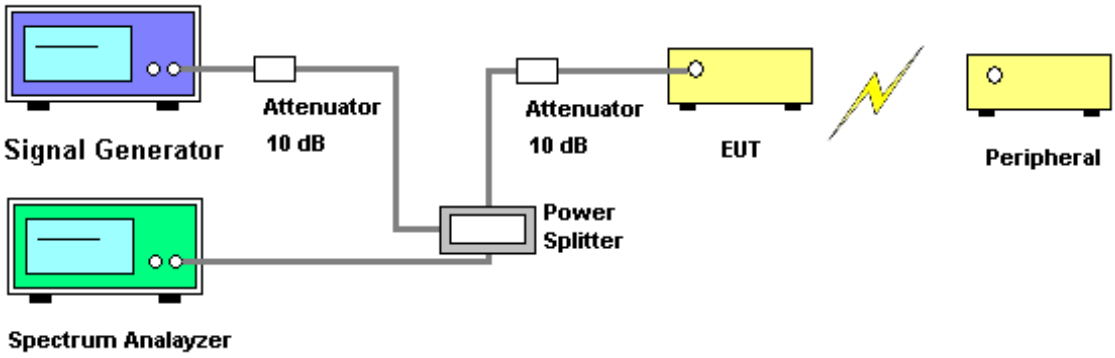
Spectrum Parameter	Setting
RBW / VBW	1MHz / 1MHz
Span	50MHz
Sweep	Continuous
Detector	Peak

3.9.3. TEST PROCEDURES

Test method according to Clause 8 of Annex No.43 of MIC Notification No.88.

1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the unmodulation from SG and power level is (On 22.79+Gr-20*log(f) [dBm] (Gr: dBi; f: MHz) or 100mV/m). Then turn off the RF signal of SG.
2. EUT have transmitted the maximum modulation signal and fixed channelize.
3. Set spectrum analyzer with condition in section 3.9.2 and tune reference level to observe receving signal position.
4. SG RF signal on.
5. EUT shall be stop the transmitted any signal.
6. SG RF Signal Off.
7. Then EUT will be continuous transmitted signal.

3.9.4. TEST SETUP LAYOUT



3.9.5. TEST DEVIATION

There is no deviation with the original standard.

3.9.6. EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmitting mode.

3.9.7. TEST RESULT OF CARRIER SENSE CAPABILITY

Test Power:	Normal Voltage
Test Mode:	IEEE 802.11n-HT40
Test Result:	Pass

3.10. CONSTRUCTION PROTECTION CONFIRMATION METHOD

3.10.1. LIMIT

(See Article 49-20 of the Ordinance Regulating Radio Equipment)

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

3.10.2. CONFIRMATION METHOD

The RF and modulation portions are protected against illegal modification as following method:

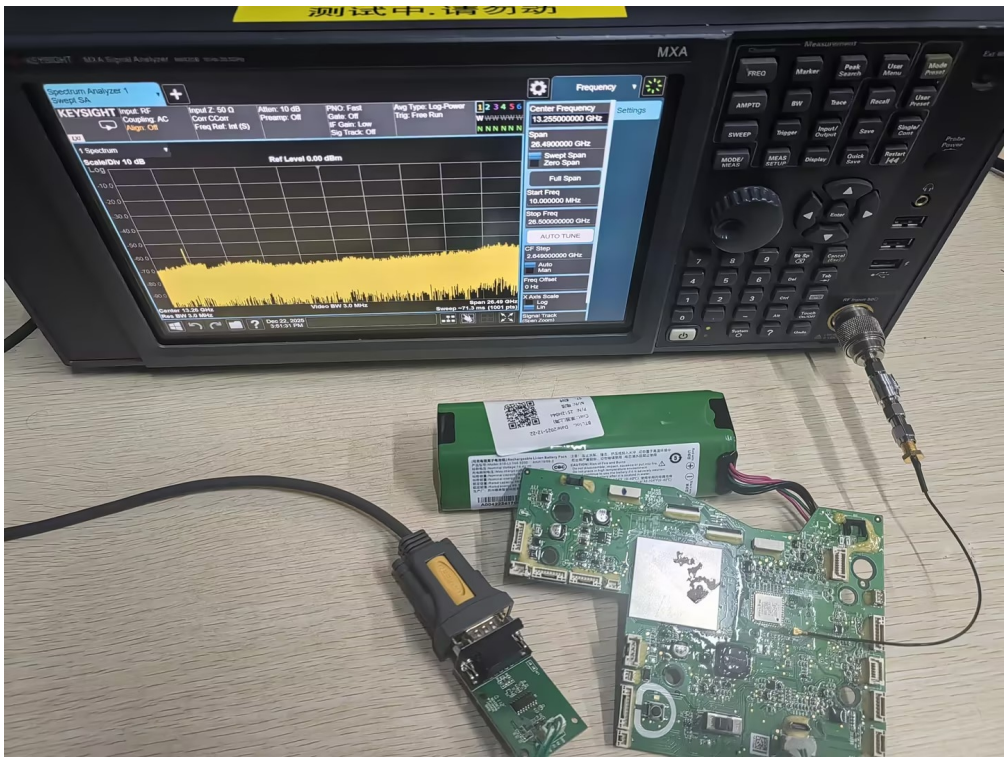
Tick the appropriate box	
	1. Sealed with special screws.
	2. Plastic chassis is being welded using ultrasonic waves.
	3. Chassis is glued using a special adhesive.
	4. Metal covers are spot-fused.
	5. Cover is specially interlocked.
√	6. RF and Modulation components are covered with shielding case and this shielding case is soldered.
	7. Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
	8. Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
	9. Shield case is welded at RF and modulation parts, and ID-ROM is guled with a non-transparent laminating agent.
	10. RF and Modulation parts are mounted on PCB with surface mount technology, and there is no any adjustable part on PCB or adjustable parts are not exposed.

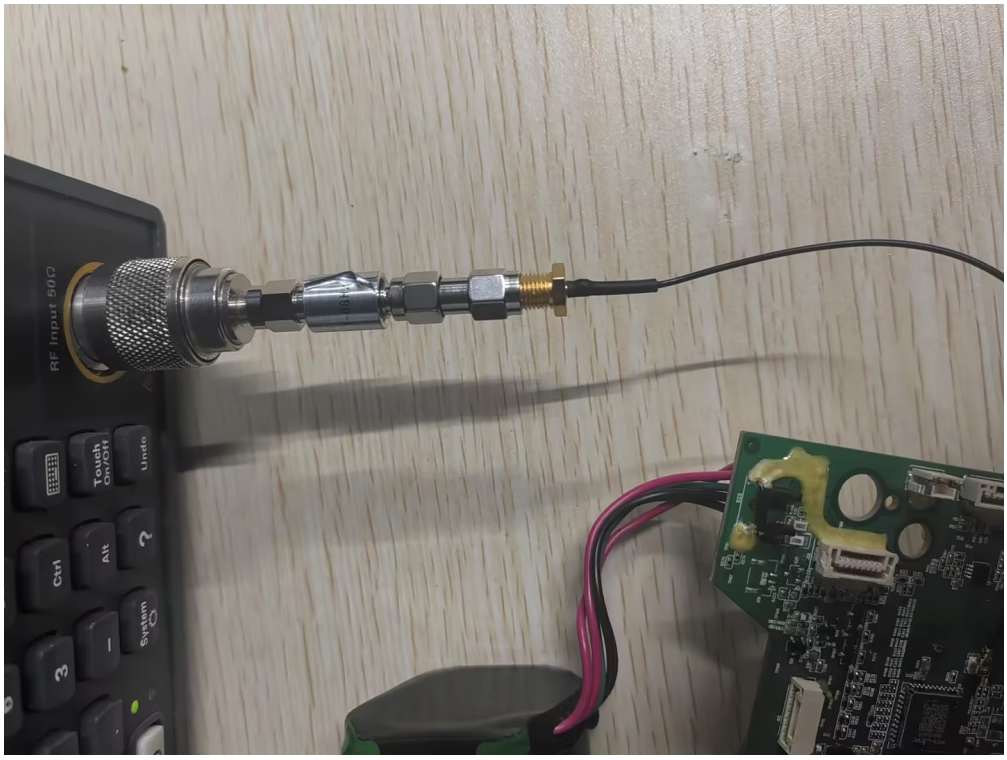
4. LIST OF MEASURING EQUIPMENTS

Kind of Equipment	Manufacturer	Model No.	Serial No.	Calibrated Date	Validity Date	Calibration Agency
EXA Spectrum Analyzer	Keysight	N9020B	MY57120173	Jan.19, 2025	Jan.18, 2026	China CEPREI Laboratory Calibration & Testing Centrer
Attenuator	Solvang Technology	5.8GHz 0-65dB	STI02-0203-01	Jul. 05, 2025	Jul. 04, 2026	China CEPREI Laboratory Calibration & Testing Centrer
DC Power Supply	GW Instek	GPC-3030DN	EH897352	Mar. 06, 2025	Mar. 05, 2026	China CEPREI Laboratory Calibration & Testing Centrer
Digital multimeter	FLUKE	15B+	38192195WS	Jul. 05, 2025	Jul. 04, 2026	China CEPREI Laboratory Calibration & Testing Centrer
Wideband Power Sensor	Keysight	N1923A	MY58310003	Jan. 19, 2025	Jan. 18, 2026	China CEPREI Laboratory Calibration & Testing Centrer

Note:
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Calibration Agency: China CEPREI Laboratory Calibration & Testing Centrer
   CEPREI(Suzhou) address : No.601, Taishan Road, Hi-Tech District, Suzhou, Jiangsu, China
3. Calibration conducted in foreign countries, which is equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).

5. EUT TEST PHOTO



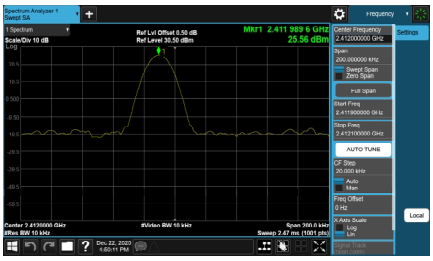


APPENDIX A - FREQUENCY TOLERANCE

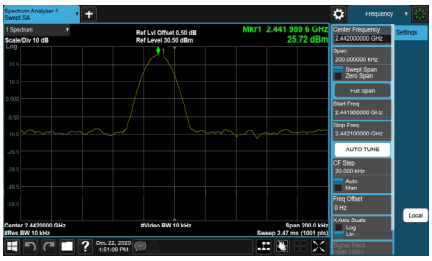
Test Mode:	TX Mode_IEEE 802.11b

Test Voltage	Normal Voltage			Remarks
Test Frequency (MHz)	2412	2442	2472	Low/Mid/High of test frequency range
Measured Frequency (MHz)	2411.9896	2441.9896	2471.9896	-
Frequency Tolerance (ppm)	-4.31	-4.26	-4.21	Limit: -50≤ppm≤50

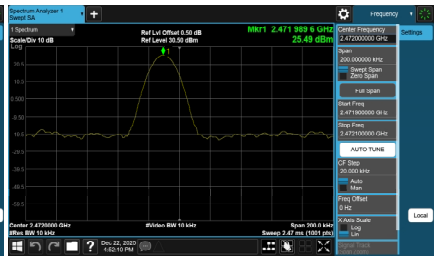
CH01



CH07



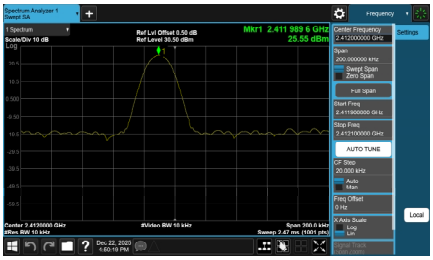
CH13



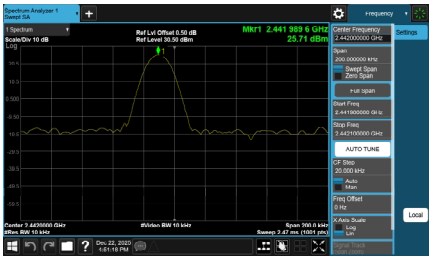
Test Mode:	TX Mode_IEEE 802.11g

Test Voltage	Normal Voltage			Remarks
Test Frequency (MHz)	2412	2442	2472	Low/Mid/High of test frequency range
Measured Frequency (MHz)	2411.9896	2441.9896	2471.9896	-
Frequency Tolerance (ppm)	-4.31	-4.26	-4.21	Limit: -50≤ppm≤50

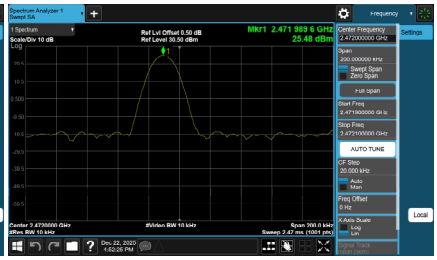
CH01



CH07



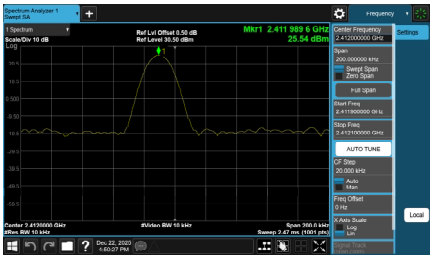
CH13



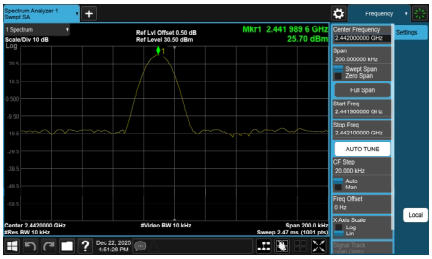
Test Mode:	TX Mode_IEEE 802.11n(HT20)

Test Voltage	Normal Voltage			Remarks
Test Frequency (MHz)	2412	2442	2472	Low/Mid/High of test frequency range
Measured Frequency (MHz)	2411.9896	2441.9896	2471.9896	-
Frequency Tolerance (ppm)	-4.31	-4.26	-4.21	Limit: -50≤ppm≤50

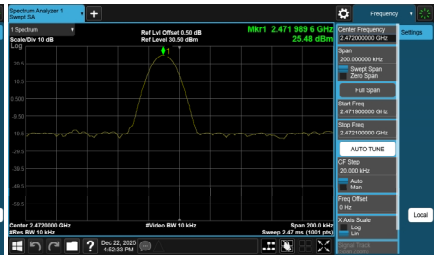
CH01



CH07



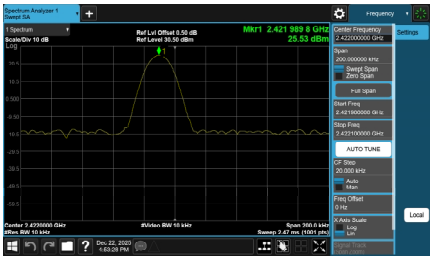
CH13



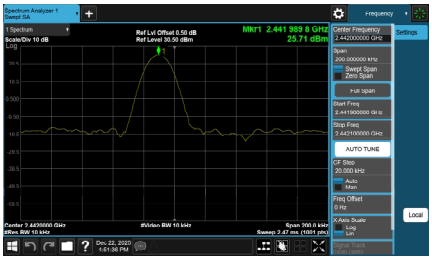
Test Mode:	TX Mode_IEEE 802.11n(HT40)

Test Voltage	Normal Voltage			Remarks
Test Frequency (MHz)	2422	2442	2462	Low/Mid/High of test frequency range
Measured Frequency (MHz)	2421.9898	2441.9898	2461.9898	-
Frequency Tolerance (ppm)	-4.21	-4.18	-4.14	Limit: -50≤ppm≤50

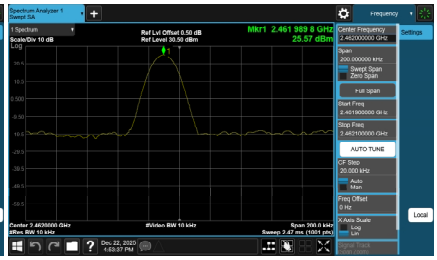
CH03



CH07



CH11

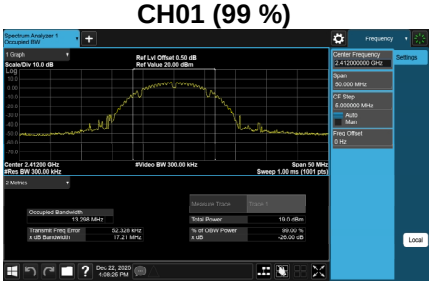


APPENDIX B - OCCUPIED BANDWIDTH

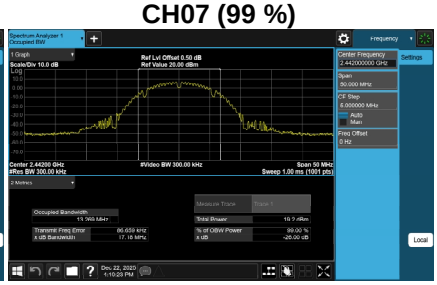
Test Mode:	TX Mode_IEEE 802.11b

Test Voltage	Normal Voltage			Remarks
Test Frequency (MHz)	2412	2442	2472	Low/Mid/High of test frequency range
Occupied Bandwidth (MHz)	13.30	13.27	13.28	Limit ≤ 26 MHz

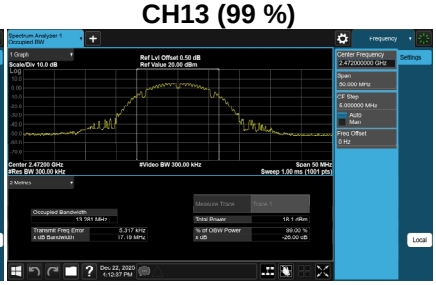
CH01 (99 %)



CH07 (99 %)



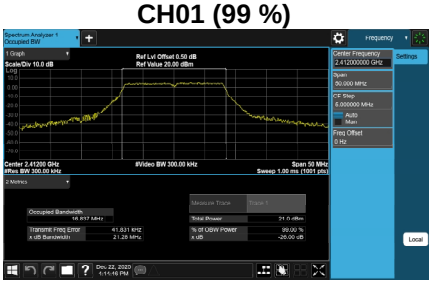
CH13 (99 %)



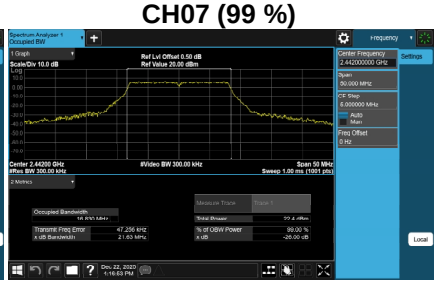
Test Mode:	TX Mode_IEEE 802.11g

Test Voltage	Normal Voltage			Remarks
Test Frequency (MHz)	2412	2442	2472	Low/Mid/High of test frequency range
Occupied Bandwidth (MHz)	16.84	16.83	16.87	Limit ≤ 26 MHz

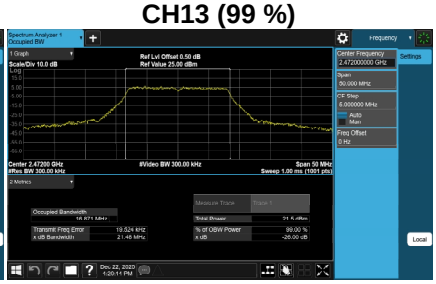
CH01 (99 %)



CH07 (99 %)



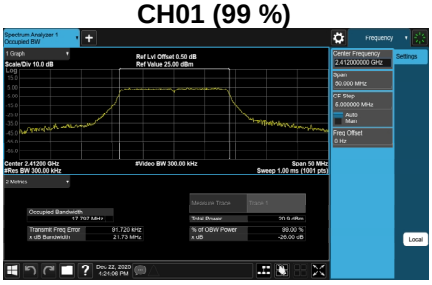
CH13 (99 %)



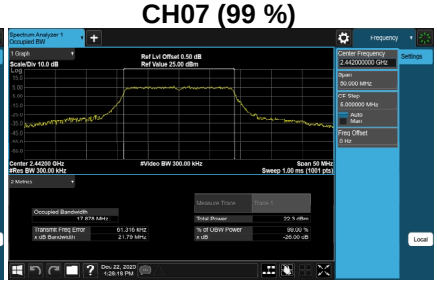
Test Mode:	TX Mode_IEEE 802.11n(HT20)

Test Voltage	Normal Voltage			Remarks
Test Frequency (MHz)	2412	2442	2472	Low/Mid/High of test frequency range
Occupied Bandwidth (MHz)	17.80	17.88	17.92	Limit ≤ 26 MHz

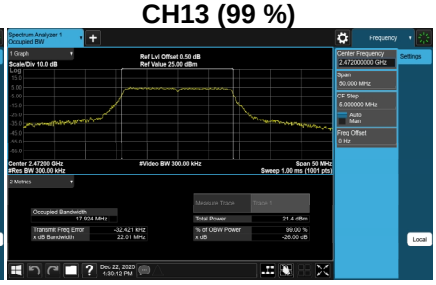
CH01 (99 %)



CH07 (99 %)



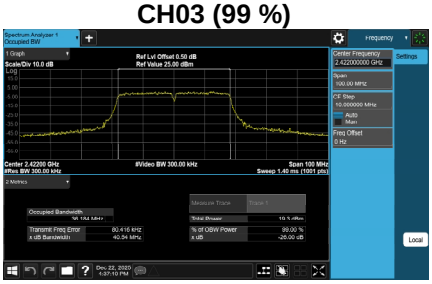
CH13 (99 %)



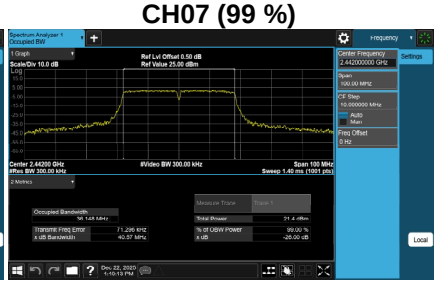
Test Mode:	TX Mode_IEEE 802.11n(HT40)

Test Voltage	Normal Voltage			Remarks
Test Frequency (MHz)	2422	2442	2462	Low/Mid/High of test frequency range
Occupied Bandwidth (MHz)	36.18	36.15	36.10	Limit ≤ 40 MHz

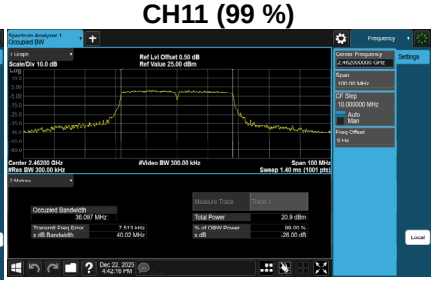
CH03 (99 %)



CH07 (99 %)



CH11 (99 %)



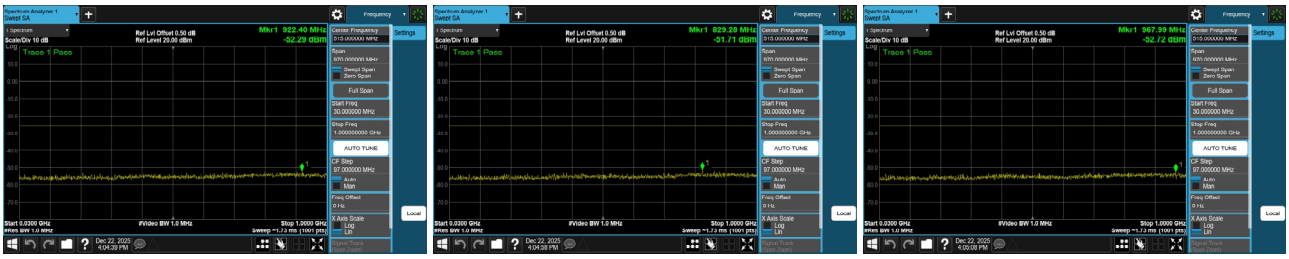
APPENDIX C - UNWANTED EMISSION INTENSITY

Test Mode:	TX Mode_IEEE 802.11b

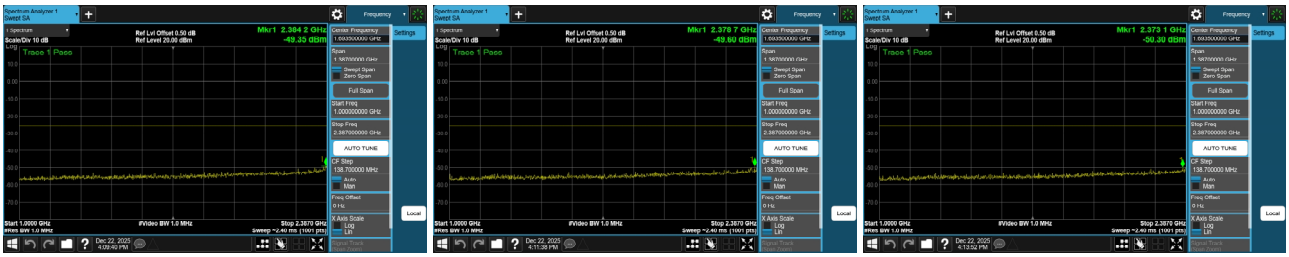
Test Voltage			Normal Voltage			Remarks
Test Frequency (MHz)			2412	2442	2472	Low/Mid/High of test frequency range
Unwanted Emission Intensity (Power emission within 1MHz bandwidth)	※1	MHz	922.40	829.28	967.99	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.0059	0.0067	0.0053	
	※2	MHz	2384.20	2378.70	2373.10	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.0116	0.0110	0.0093	
	※3	MHz	2399.81	2400.00	2399.88	Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		μW/MHz	2.0512	0.0213	0.0217	
	※4	MHz	2492.12	2485.71	2484.07	Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		μW/MHz	0.0228	0.0169	1.5488	
	※5	MHz	7238.00	7328.00	7418.00	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.0079	0.0112	0.0086	

CH01 **CH07** **CH13**

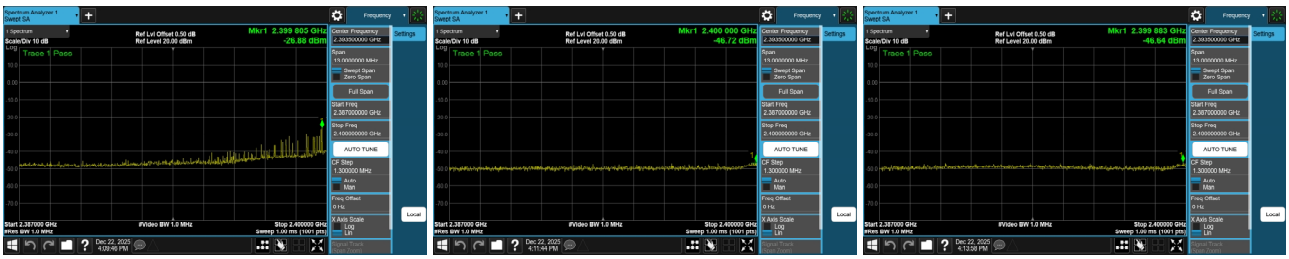
※1: 30MHz≤f≤1000MHz



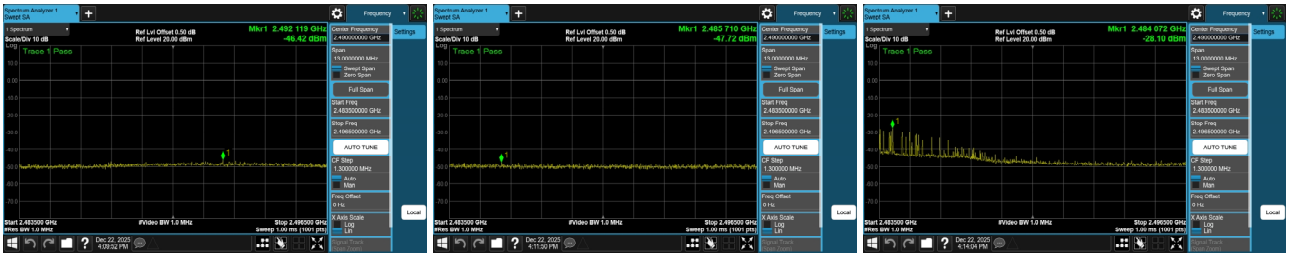
※2: 1000MHz≤f<2387MHz



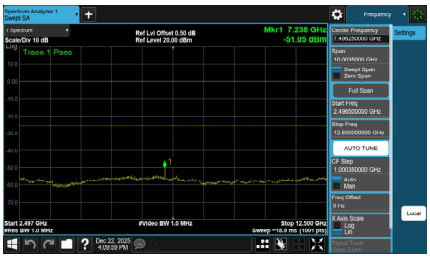
※3: 2387MHz≤f<2400MHz



※4: 2483.5MHz<f≤2496.5MHz

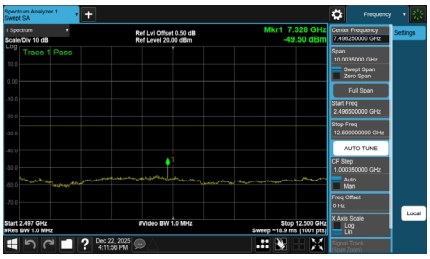


CH01

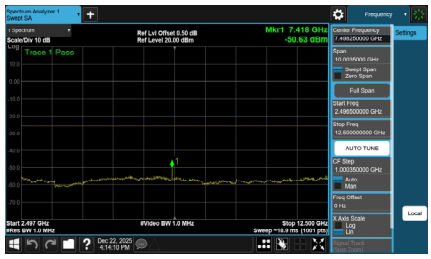


CH07

※5: 2496.5MHz<f



CH13

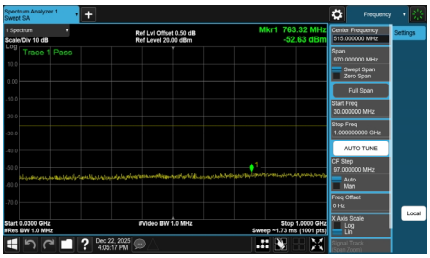
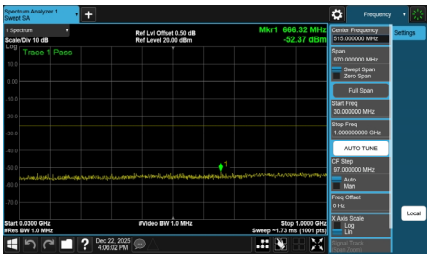
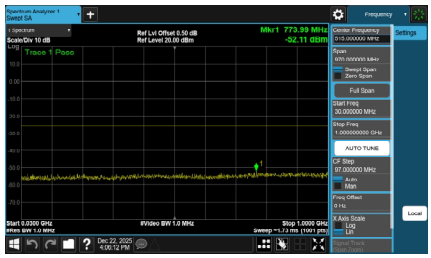


Test Mode:	TX Mode_IEEE 802.11g

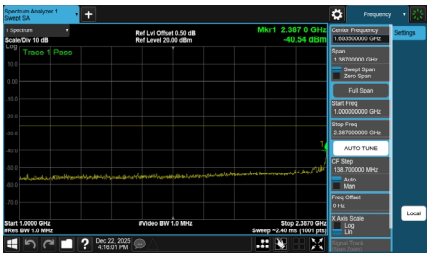
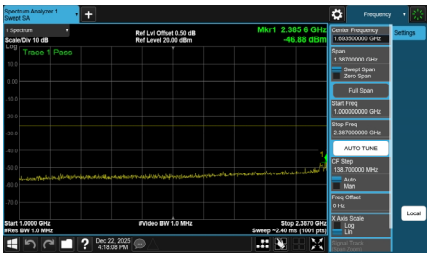
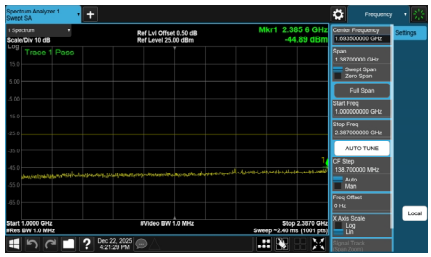
Test Voltage			Normal Voltage			Remarks
Test Frequency (MHz)			2412	2442	2472	Low/Mid/High of test frequency range
Unwanted Emission Intensity (Power emission within 1MHz bandwidth)	※1	MHz	763.32	666.32	773.99	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.0055	0.0058	0.0062	
	※2	MHz	2387.00	2385.60	2385.60	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.0883	0.0205	0.0324	
	※3	MHz	2399.68	2399.52	2393.75	Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		μW/MHz	10.6414	0.0877	0.0664	
	※4	MHz	2493.94	2486.75	2483.55	Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		μW/MHz	0.0409	0.1107	14.7911	
	※5	MHz	2497.00	7328.00	2497.00	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.0045	0.0100	0.0435	

CH01 **CH07** **CH13**

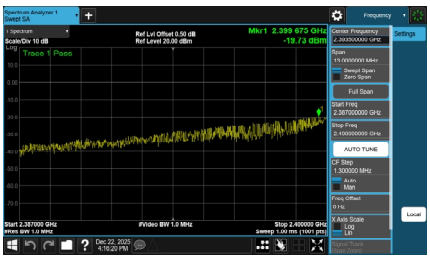
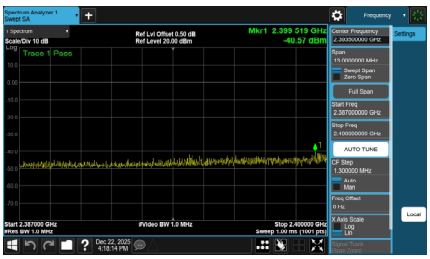
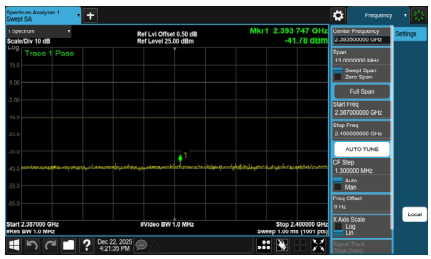
※1: 30MHz≤f≤1000MHz

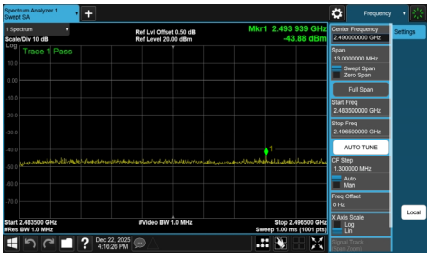
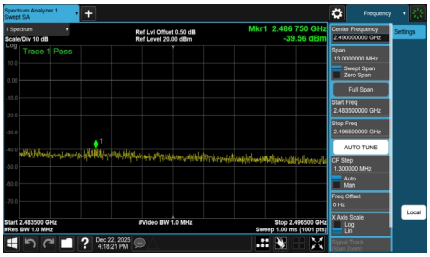
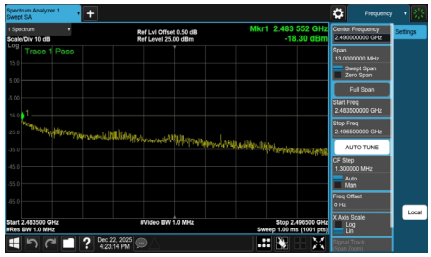
※2: 1000MHz≤f<2387MHz

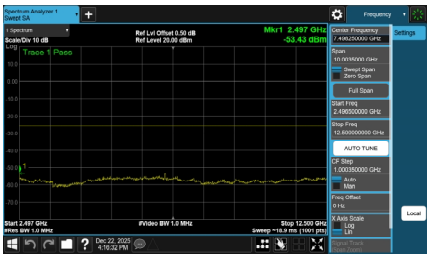
※3: 2387MHz≤f<2400MHz

※4: 2483.5MHz<f≤2496.5MHz

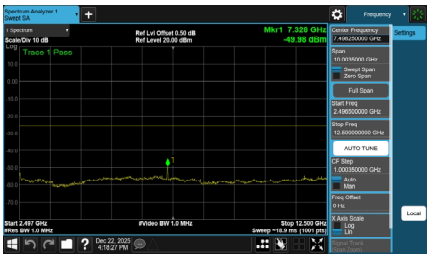




CH01

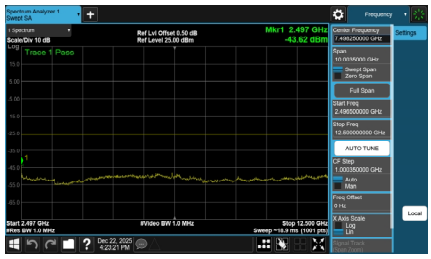


CH07

※5: 2496.5MHz<f



CH13

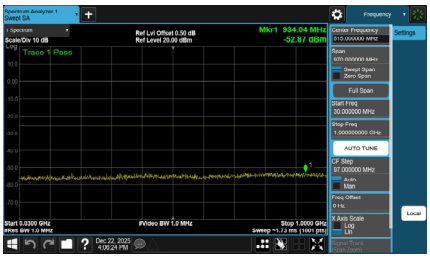


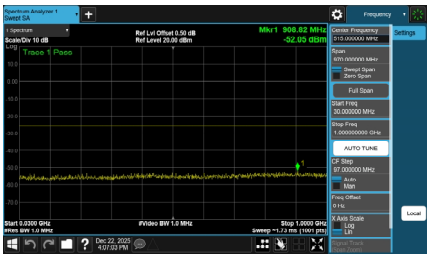
Test Mode:	TX Mode_IEEE 802.11n(HT20)

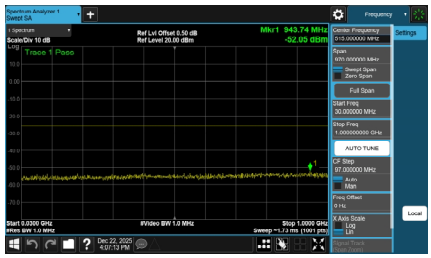
Test Voltage			Normal Voltage			Remarks
Test Frequency (MHz)			2412	2442	2472	Low/Mid/High of test frequency range
Unwanted Emission Intensity (Power emission within 1MHz bandwidth)	※1	MHz	934.04	908.82	943.74	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.0052	0.0062	0.0062	
	※2	MHz	2382.80	2367.60	2385.60	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.1151	0.0376	0.0278	
	※3	MHz	2400.00	2398.96	2399.96	Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		μW/MHz	12.0781	0.0893	0.0938	
	※4	MHz	2484.58	2483.70	2483.54	Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		μW/MHz	0.0644	0.1191	11.8850	
	※5	MHz	7238.00	7328.00	5978.00	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.0128	0.0154	0.0135	

CH01 **CH07** **CH13**

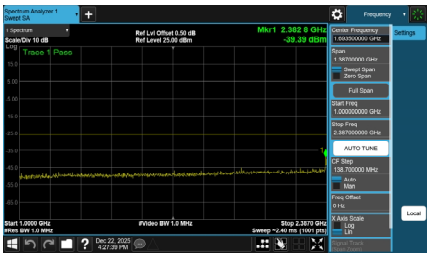
※1: 30MHz≤f≤1000MHz

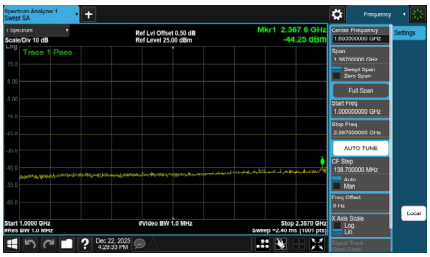


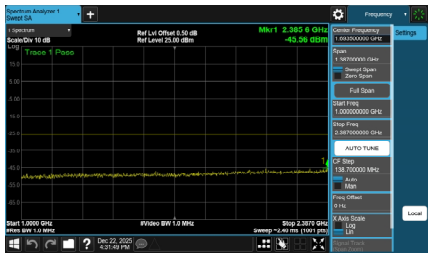




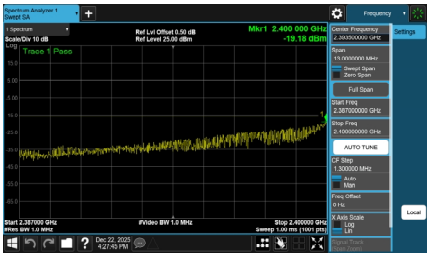
※2: 1000MHz≤f<2387MHz

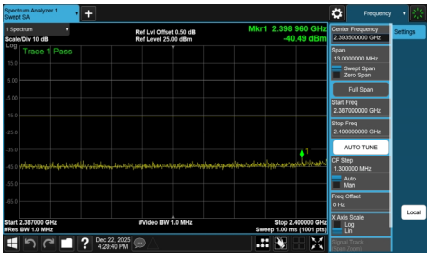


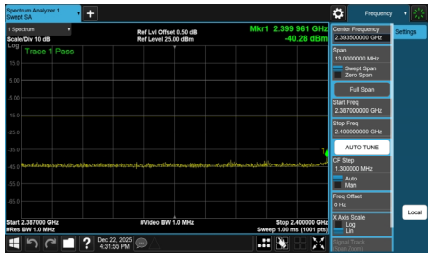




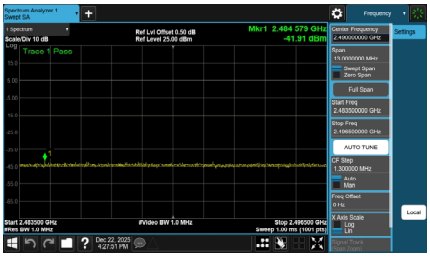
※3: 2387MHz≤f<2400MHz

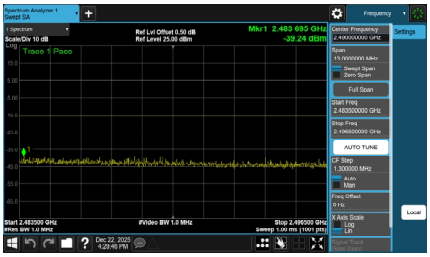


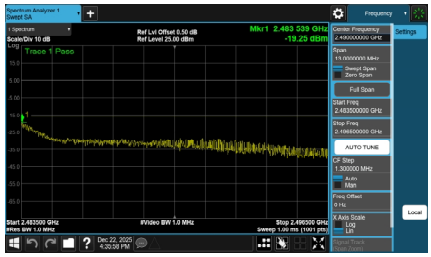




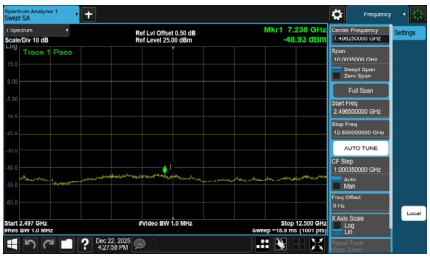
※4: 2483.5MHz<f≤2496.5MHz





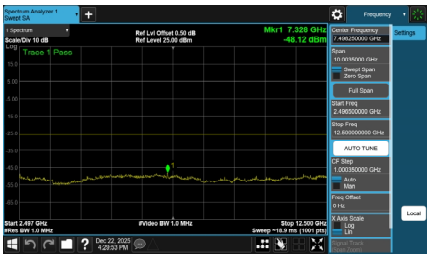


CH01

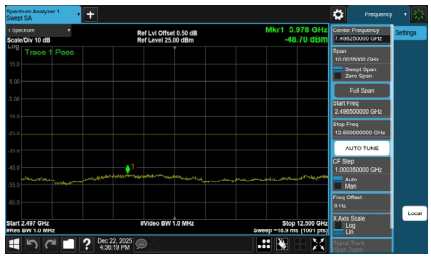


CH07

※5: 2496.5MHz<f



CH13

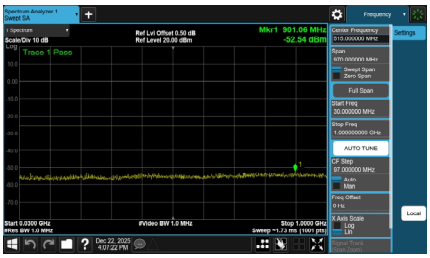
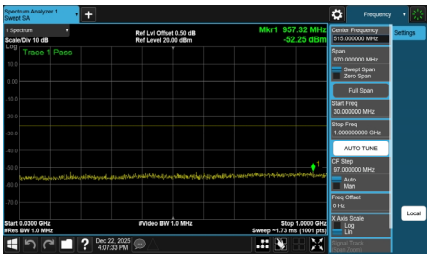
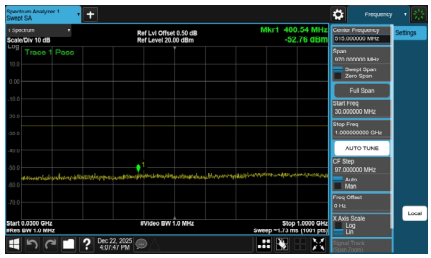


Test Mode:	TX Mode_IEEE 802.11n(HT40)

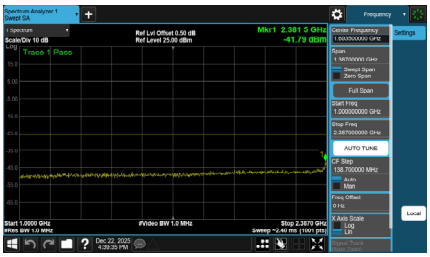
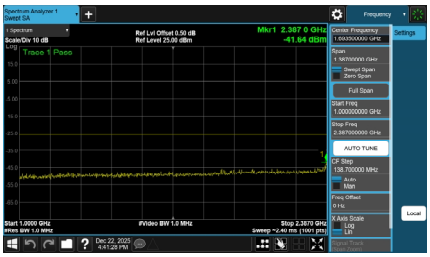
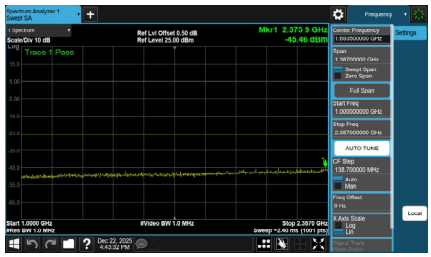
Test Voltage			Normal Voltage			Remarks
Test Frequency (MHz)			2422	2442	2462	Low/Mid/High of test frequency range
Unwanted Emission Intensity (Power emission within 1MHz bandwidth)	※1	MHz	901.06	957.32	400.54	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.0056	0.0060	0.0053	
	※2	MHz	2381.50	2387.00	2375.90	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.0662	0.0685	0.0284	
	※3	MHz	2399.86	2398.51	2398.44	Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		μW/MHz	3.9084	0.4808	0.1062	
	※4	MHz	2494.00	2484.28	2483.64	Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		μW/MHz	0.0556	0.2729	12.5603	
	※5	MHz	6948.00	2497.00	2497.00	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.0129	0.0174	0.0471	

CH03 **CH07** **CH11**

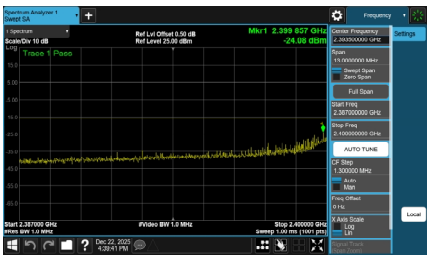
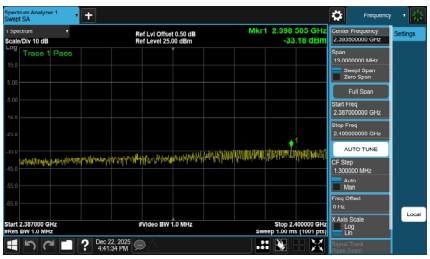
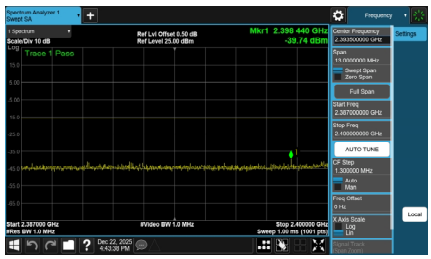
※1: 30MHz≤f≤1000MHz

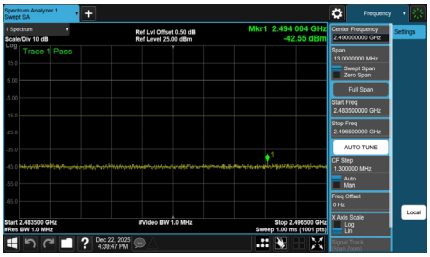
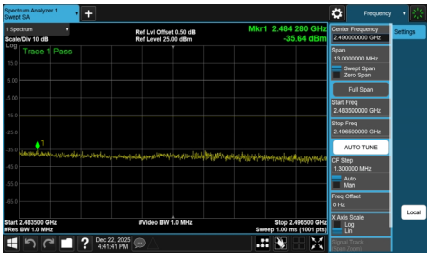
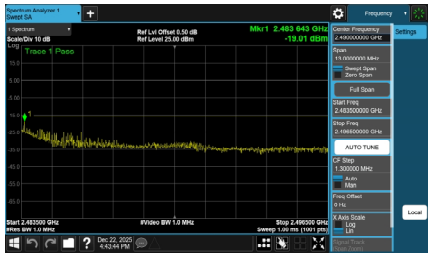
※2: 1000MHz≤f<2387MHz

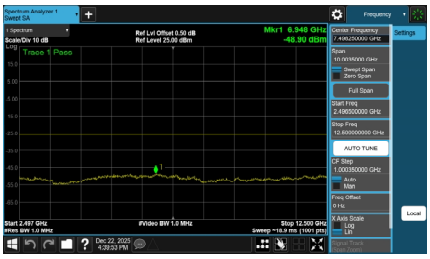
※3: 2387MHz≤f<2400MHz

※4: 2483.5MHz<f≤2496.5MHz

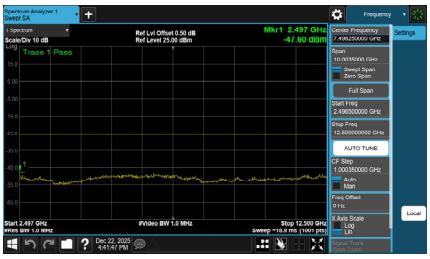




CH03

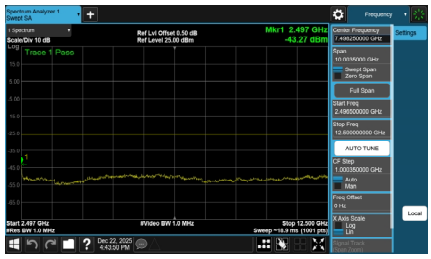


CH07

※5: 2496.5MHz<f



CH11



APPENDIX D - ANTENNA POWER TOLERANCE

Test Mode:	TX Mode_IEEE 802.11b

Normal Voltage

Test Frequency	Conducted Antenna Power		Rated Antenna Power	Conducted Antenna Power Limit	Antenna Power Tolerance Limit	
(MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)	(mW/MHz)	(+20%)	
2412	6.56	4.5290	4.80	10	-5.65	%
2442	6.81	4.7973	4.80	10	-0.06	%
2472	5.83	3.8282	4.80	10	-20.24	%

Test Frequency	EIRP	Limit
(MHz)	(dBm/MHz)	(dBm/MHz)
2412	9.12	12.14
2442	9.37	12.14
2472	8.39	12.14

Note:
1. Antenna power tolerance = (conducted antenna power - rated antenna power)/rated antenna power * 100%
2. Antenna Power value = SA measurement value (Include correction factor and cable loss)
   Correction factor = 10 log (X)
   X = the total number of antennas

Test Mode:	TX Mode_IEEE 802.11g

Normal Voltage

Test Frequency	Conducted Antenna Power		Rated Antenna Power	Conducted Antenna Power Limit	Antenna Power Tolerance Limit	
(MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)	(mW/MHz)	(+20%)	
2412	2.72	1.8707	2.47	10	-24.26	%
2442	3.92	2.4660	2.47	10	-0.16	%
2472	3.35	2.1627	2.47	10	-12.44	%

Test Frequency	EIRP	Limit
(MHz)	(dBm/MHz)	(dBm/MHz)
2412	5.28	12.14
2442	6.48	12.14
2472	5.91	12.14

Note:
1. Antenna power tolerance = (conducted antenna power - rated antenna power)/rated antenna power * 100%
2. Antenna Power value = SA measurement value (Include correction factor and cable loss)
   Correction factor = 10 log (X)
   X = the total number of antennas

Test Mode:	TX Mode_IEEE 802.11n(HT20)

Normal Voltage

Test Frequency	Conducted Antenna Power		Rated Antenna Power	Conducted Antenna Power Limit	Antenna Power Tolerance Limit	
(MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)	(mW/MHz)	(+20%)	
2412	2.34	1.7140	2.32	10	-26.12	%
2442	3.65	2.3174	2.32	10	-0.11	%
2472	3.04	2.0137	2.32	10	-13.20	%

Test Frequency	EIRP	Limit
(MHz)	(dBm/MHz)	(dBm/MHz)
2412	4.90	12.14
2442	6.21	12.14
2472	5.60	12.14

Note:
1. Antenna power tolerance = (conducted antenna power - rated antenna power)/rated antenna power * 100%
2. Antenna Power value = SA measurement value (Include correction factor and cable loss)
   Correction factor = 10 log (X)
   X = the total number of antennas

Test Mode:	TX Mode_IEEE 802.11n(HT40)

Normal Voltage

Test Frequency	Conducted Antenna Power		Rated Antenna Power	Conducted Antenna Power Limit	Antenna Power Tolerance Limit	
(MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)	(mW/MHz)	(+20%)	
2422	-2.76	0.5297	0.88	5	-39.81	%
2442	-0.58	0.8750	0.88	5	-0.57	%
2462	-0.81	0.8299	0.88	5	-5.70	%

Test Frequency	EIRP	Limit
(MHz)	(dBm/MHz)	(dBm/MHz)
2422	-0.20	9.14
2442	1.98	9.14
2462	1.75	9.14

Note:
1. Antenna power tolerance = (conducted antenna power - rated antenna power)/rated antenna power * 100%
2. Antenna Power value = SA measurement value (Include correction factor and cable loss)
   Correction factor = 10 log (X)
   X = the total number of antennas

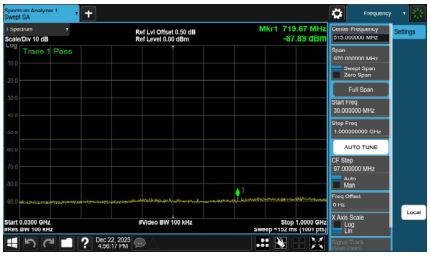
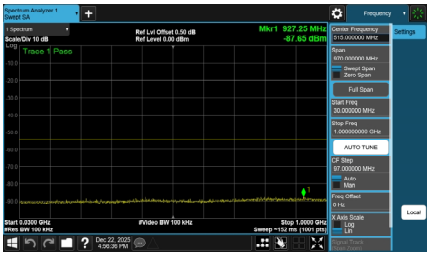
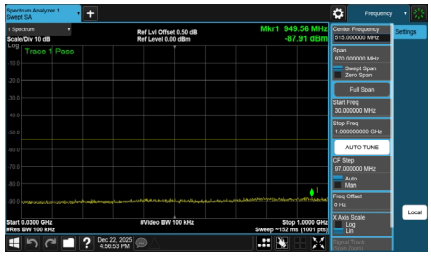
APPENDIX E - LIMITATION OF COLLATERAL EMISSION OF RECEIVER

Test Mode:	RX Mode_IEEE 802.11b

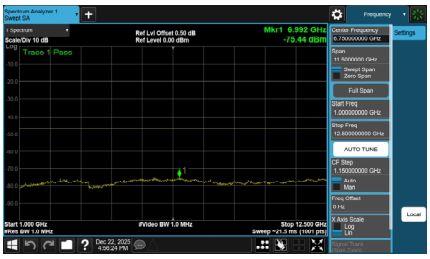
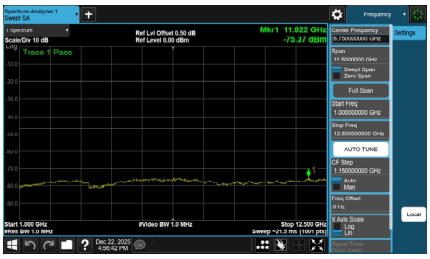
Test Voltage			Normal Voltage			Remarks
Test Frequency (MHz)			2412	2442	2472	Low/Mid/High of test frequency range
Limitation of Collateral Emission of Receiver	※6	MHz	719.67	927.25	949.56	Limit ≤ 4 nW (-54 dBm)
		nW	0.0016	0.0017	0.0016	
	※7	MHz	6992.0 0	11822.00	6026.00	Limit ≤ 20 nW (-47 dBm)
		nW	0.0286	0.0290	0.0315	

CH01 **CH07** **CH13**

※6: f<1GHz

※7: 1GHz≤f

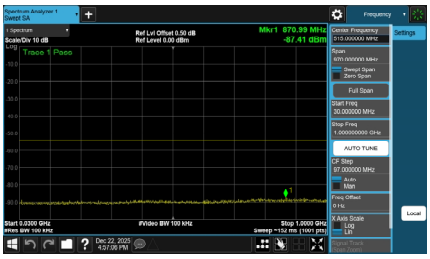



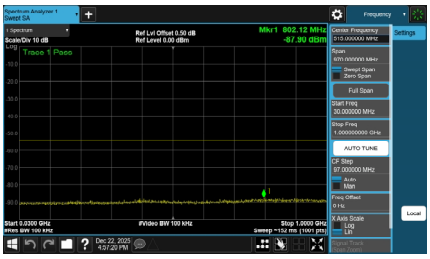
Test Mode:	RX Mode_IEEE 802.11g

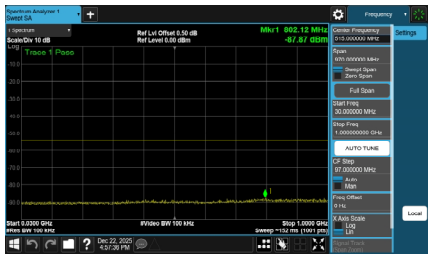
Test Voltage			Normal Voltage			Remarks
Test Frequency (MHz)			2412	2442	2472	Low/Mid/High of test frequency range
Limitation of Collateral Emission of Receiver	※6	MHz	870.99	802.12	802.12	Limit ≤ 4 nW (-54 dBm)
		nW	0.0018	0.0016	0.0016	
	※7	MHz	6923.00	6946.00	6980.00	Limit ≤ 20 nW (-47 dBm)
		nW	0.0309	0.0318	0.0298	

CH01 **CH07** **CH13**

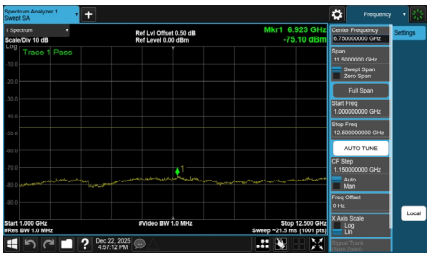
※6: f<1GHz

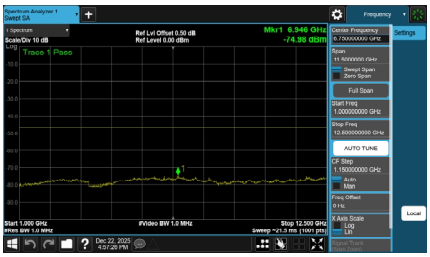






※7: 1GHz≤f



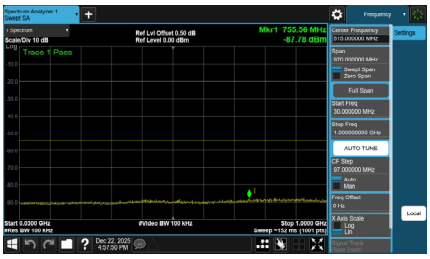
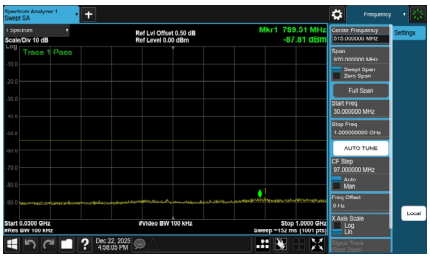
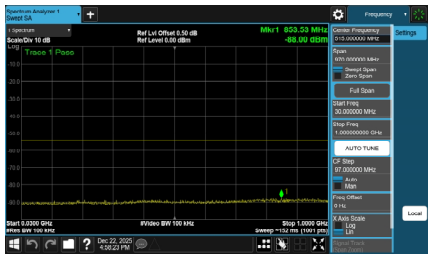


Test Mode:	RX Mode_IEEE 802.11n(HT20)

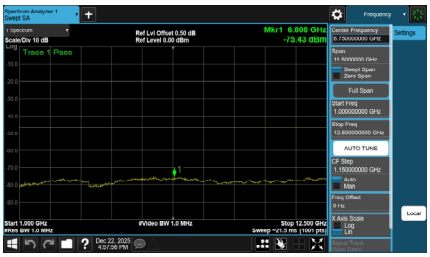
Test Voltage			Normal Voltage			Remarks
Test Frequency (MHz)			2412	2442	2472	Low/Mid/High of test frequency range
Limitation of Collateral Emission of Receiver	※6	MHz	755.56	789.51	853.53	Limit ≤ 4 nW (-54 dBm)
		nW	0.0017	0.0017	0.0016	
	※7	MHz	6808.00	6060.00	6923.00	Limit ≤ 20 nW (-47 dBm)
		nW	0.0286	0.0327	0.0288	

CH01 **CH07** **CH13**

※6: f<1GHz

※7: 1GHz≤f

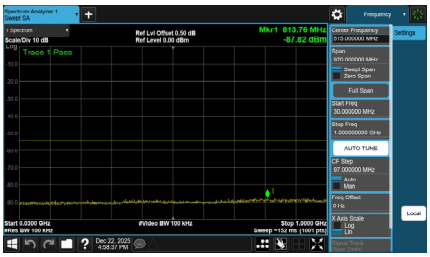
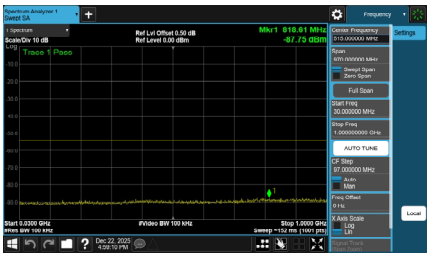
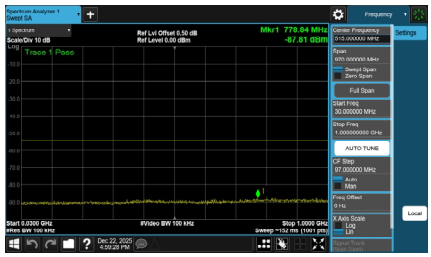


Test Mode:	RX Mode_IEEE 802.11n(HT40)

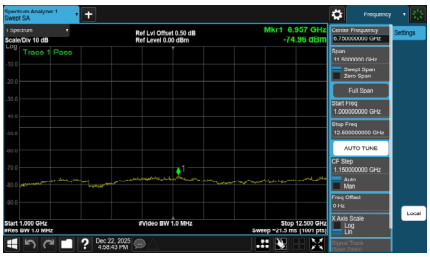
Test Voltage			Normal Voltage			Remarks
Test Frequency (MHz)			2422	2442	2462	Low/Mid/High of test frequency range
Limitation of Collateral Emission of Receiver	※6	MHz	813.76	818.61	778.84	Limit ≤ 4 nW (-54 dBm)
		nW	0.0017	0.0017	0.0017	
	※7	MHz	6957.00	7003.00	6969.00	Limit ≤ 20 nW (-47 dBm)
		nW	0.0319	0.0309	0.0296	

CH03 **CH07** **CH11**

※6: f<1GHz

※7: 1GHz≤f



End of Test Report