ACCREDITED
CERT# 6677.01

# TEST REPORT

| | |
|---|---|
| **Applicant:** | Waylens Inc. |
| **Address:** | 2711 Centerville Road-Suite 400, Wilmington, Delaware, United States |
| **Equipment Type:** | AI Recorder 3 Pro |
| **Model Name:** | CAM20 |
| **Brand Name:** | Waylens Inc. |
| **FCC ID:** | 2AKAF-CAM20 |
| **ISED Number:** | 24254-CAM20 |
| **Test Standard:** | 47 CFR Part 15 Subpart C<br>RSS-Gen Issue 5<br>RSS-247 Issue 4<br>(refer to section 3.1) |
| **Sample Arrival Date:** | Feb. 10, 2026 |
| **Test Date：** | Feb. 12, 2026 - Apr. 14, 2026 |
| **Date of Issue:** | May 15, 2026 |

**ISSUED BY:**

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

上海泰捷通信技术有限公司测试中心
检验检测专用章
Inspection & Testing Seal
Shanghai Tejet Communications Technology Co.,Ltd. Testing Center

**Prepared by:** Zhang Rujie **Reviewed by:** Hai Su **Approved by:** Zhang Yanqing (Laboratory Manager)

Zhang Rujie Hai Su Zhang Yanqing

**Revision History**

| Version | Issue Date | Revisions |
|---|---|---|
| Rev. 01 | May 15, 2026 | Initial Issue |

# TABLE OF CONTENTS


1 GENERAL INFORMATION ..... 4
1.1 Test Laboratory ..... 4
1.2 Test Location ..... 4
2 PRODUCT INFORMATION ..... 5
2.1 Applicant Information ..... 5
2.2 Manufacturer Information ..... 5
2.3 General Description for Equipment under Test (EUT) ..... 5
2.4 Technical Information ..... 6
3 SUMMARY OF TEST RESULTS ..... 8
3.1 Test Standards ..... 8
3.2 Test Verdict ..... 8
4 GENERAL TEST CONFIGURATIONS ..... 9
4.1 Test Environments ..... 9
4.2 Test Equipment List ..... 9
4.3 Test Software List ..... 9
4.4 Measurement Uncertainty ..... 10
4.5 Decision Rule ..... 11
4.6 Description of Test Setup ..... 11
4.7 Measurement Results Explanation Example ..... 14
5 TEST ITEMS ..... 15
5.1 Antenna Requirements ..... 15
5.2 Output Power ..... 16
5.3 Occupied Bandwidth ..... 18
5.4 Conducted Spurious Emission ..... 19
5.5 Band Edge (Authorized-band band-edge) ..... 21

5.6 Conducted Emission ..... 23
5.7 Radiated Spurious Emission ..... 24
5.8 Band Edge (Restricted-band band-edge) ..... 28
5.9 Power Spectral density (PSD) ..... 29
ANNEX A TEST RESULT ..... 30
A.1 Output Power ..... 30
A.2 Occupied Bandwidth ..... 32
A.3 Conducted Spurious Emission ..... 37
A.4 Band Edge (Authorized-band band-edge) ..... 46
A.5 Conducted Emission ..... 50
A.6 Radiated Emission ..... 52
A.7 Band Edge (Restricted-band band-edge) ..... 53
A.8 Power Spectral Density (PSD) ..... 54
ANNEX B TEST SETUP PHOTOS ..... 57
ANNEX C EUT EXTERNAL PHOTOS ..... 57
ANNEX D EUT INTERNAL PHOTOS ..... 57

# 1 GENERAL INFORMATION

## 1.1 Test Laboratory

| | |
|---|---|
| Name | Shanghai Tejet Communications Technology Co., Ltd. Testing Center |
| Address | 1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China |

## 1.2 Test Location

| | |
|---|---|
| Name | Shanghai Tejet Communications Technology Co., Ltd. Testing Center |
| Location | 1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China |
| Accreditation Certificate | The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352.<br>The laboratory is a testing organization accredited by ISED as a accredited testing laboratory. The company number is 29671 and CAB identifier number is CN0142. |

# 2 PRODUCT INFORMATION

## 2.1 Applicant Information

| | |
|---|---|
| Applicant | Waylens Inc. |
| Address | 2711 Centerville Road-Suite 400, Wilmington, Delaware, United States |

## 2.2 Manufacturer Information

| | |
|---|---|
| Manufacturer | Waylens Inc. |
| Address | 2711 Centerville Road-Suite 400, Wilmington, Delaware, United States |

## 2.3 General Description for Equipment under Test (EUT)

| | |
|---|---|
| EUT Name | AI Recorder 3 Pro |
| Model Name Under Test | CAM20 |
| Series Model Name | N/A |
| Description of Model name differentiation | N/A |
| Sample Number | CC26010215-001-S05(conducted)<br>CC26010215-001-S08(radiated) |
| Hardware Version | V0A |
| Software Version | V0A |
| Dimensions (Approx.) | N/A |
| Weight (Approx.) | N/A |

## 2.4 Technical Information

| | |
|---|---|
| Network and Wireless connectivity | 4G Network LTE FDD Band 2/4/7/12/17/66<br>Bluetooth (BR+EDR+BLE 1M&2M）<br>2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40)<br>5G WIFI 802.11a, 802.11n(HT20/40) |

The requirement for the following technical information of the EUT was tested in this report:

| | |
|---|---|
| Frequency Range | 802.11b/g/n(20 MHz): 2.412 GHz - 2.462 GHz<br>$f_c$ = 2412 MHz + (N-1)*5 MHz, where<br>- $f_c$ = “Operating Frequency” in MHz,<br>- N = “Channel Number” with the range from 1 to 11.<br>802.11n(40 MHz): 2.422 GHz - 2.452 GHz<br>$f_c$ = 2412 MHz + (N-1)*5 MHz, where<br>- $f_c$ = “Operating Frequency” in MHz,<br>- N = “Channel Number” with the range from 3 to 9. |
| Modulation Type | DSSS, OFDM |
| Antenna System (eg., MIMO, Smart Antenna) | N/A |
| Categorization as Correlated or Completely Uncorrelated | N/A |
| Antenna Type | PCB softboard Antenna |
| Antenna Gain | 2.93 dBi |
| About the Product | Only the WIFI 802.11b, 802.11g, 802.11n (HT20/40) were tested in this report. |

| Modulation technology | Modulation Type | Transfer Rate (Mbps)(Single RF path) |
|---|---|---|
| DSSS (802.11b) | DBPSK | 1 |
| | DQPSK | 2 |
| | CCK | 5.5/11 |
| OFDM (802.11g) | BPSK | 6/9 |
| | QPSK | 12/18 |
| | 16QAM | 24/36 |
| | 64QAM | 48/54 |
| OFDM (802.11n-20 MHz) | BPSK | 6.5/7.2 |
| | QPSK | 13/19.5/14.4/21.7 |
| | 16QAM | 26/39/28.9/43.3 |
| | 64QAM | 52/58.5/65/57.8/65/72.2 |
| OFDM (802.11n-40 MHz) | BPSK | 13.5/15 |
| | QPSK | 27/40.5/30/45 |
| | 16QAM | 54/81/60/90 |
| | 64QAM | 108/121.5/135/120/150 |

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

| Test Items | Mode | Data Rate | Channel | |
|---|---|---|---|---|
| Output Power | 11b/11g/11n20/11n40 | 1/6/6.5/13.5 Mbps | 1/6/11 | 3/6/9 |
| 6dB Bandwidth | 11b/11g/11n20/11n40 | 1/6/6.5/13.5 Mbps | 1/6/11 | 3/6/9 |
| Conducted Spurious Emission | 11b/11g/11n20/11n40 | 1/6/6.5/13.5 Mbps | 1/6/11 | 3/6/9 |
| Conducted Emission | 11b/11g/11n20/11n40 | 1/6/6.5/13.5 Mbps | 1/6/11 | 3/6/9 |
| Radiated Spurious Emission | 11b/11g/11n20/11n40 | 1/6/6.5/13.5 Mbps | 1/6/11 | 3/6/9 |
| Band Edge | 11b/11g/11n20/11n40 | 1/6/6.5/13.5 Mbps | 1/6/11 | 3/6/9 |
| Power spectral density (PSD) | 11b/11g/11n20/11n40 | 1/6/6.5/13.5 Mbps | 1/6/11 | 3/6/9 |

Note: The above EUT information in section 2.3 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

# 3 SUMMARY OF TEST RESULTS

## 3.1 Test Standards

| No. | Identity | Document Title |
|---|---|---|
| 1 | 47 CFR Part 15 Subpart C | Intentional radiators of radio frequency equipment |
| 2 | RSS-Gen Issue 5 | General Requirements for Compliance of Radio Apparatus |
| 3 | RSS-247 Issue 4 | Digital Transmission Systems, Frequency Hopping Systems and Licence-Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands |
| 4 | ANSI C63.10-2020 | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices |
| 5 | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices |
| 6 | KDB 558074 D01 15.247 Meas Guidance v05r02☆ | Guidance for compliance measurements on digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules |

## 3.2 Test Verdict

| No. | Description | FCC PART No. | ISED Part No. | Test Result | Verdict |
|---|---|---|---|---|---|
| 1 | Antenna Requirement | 15.203 | RSS-GEN, 6.8 | N/A | Pass[Note 1] |
| 2 | Output Power | 15.247 (b) | RSS-247, 6.3.2 | ANNEX A.1 | Pass |
| 3 | Occupied Bandwidth | 15.247 (a) | RSS-GEN, 6.7; RSS-247, 6.3.1(a) | ANNEX A.2 | Pass |
| 4 | Conducted Spurious Emission | 15.247 (d) | RSS-247, 6.6 | ANNEX A.3 | Pass |
| 5 | Band Edge(Authorized-band band-edge) | 15.247 (d) | RSS-GEN, 8.9; RSS-247, 6.6 | ANNEX A.4 | Pass |
| 6 | Conducted Emission | 15.207 | RSS-GEN, 8.8 | ANNEX A.5 | Pass |
| 7 | Radiated Spurious Emission | 15.209; 15.247 (d) | RSS-247, 6.6 | ANNEX A.6 | Pass |
| 8 | Band Edge(Restricted-band band-edge) | 15.209; 15.247 (d) | RSS-247, 6.6 | ANNEX A.7 | Pass |
| 9 | Power spectral density (PSD) | 15.247 (e) | RSS-247, 6.3.1 (b) | ANNEX A.8 | Pass |
| 10 | Receiver Spurious Emissions | N/A | RSS-Gen, 7.3 | N/A | N/A [Note 2] |

Note [1]: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note [2]: Only radio communication receivers operating in stand-alone mode within the band 30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements, so this test is not applicable.

# 4 GENERAL TEST CONFIGURATIONS

## 4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

| | | |
|---|---|---|
| Relative Humidity | 47% to 56% | |
| Atmospheric Pressure | 100 kPa to 102 kPa | |
| Temperature | NT (Normal Temperature) | +20.1℃ to +24.3℃ |
| Working Voltage of the EUT | NV (Normal Voltage) | 12.0 V |

## 4.2 Test Equipment List

| Description | Manufacturer | Model | Equipment No. | Cal. Date | Cal. Due |
|---|---|---|---|---|---|
| Spectrum Analyzer | KEYSIGHT | N9020A | BH-EMC-L066 | 2026.02.03 | 2027.02.02 |
| Spectrum Analyzer | KEYSIGHT | N9010B | BH-EMC-L099 | 2026.02.03 | 2027.02.02 |
| Signal Generator | Anritsu | MG3710E | BH-EMC-L131 | 2026.02.03 | 2027.02.02 |
| Wideband Radio Communication Tester | R&S | CMW500 | BH-EMC-L094 | 2026.02.03 | 2027.02.02 |
| EMI Receiver | KEYSIGHT | N9038A | BH-EMC-L015 | 2025.07.04 | 2026.07.03 |
| Test Antenna-Loop(9 kHz-30 MHz) | SCHWARZBECK | FMZB 1519 B | BH-EMC-L067 | 2024.03.11 | 2027.03.10 |
| Test Antenna-Bi-Log(30 MHz-3 GHz) | SCHWARZBECK | VULB 9163 | BH-EMC-L008 | 2024.03.11 | 2027.03.10 |
| Test Antenna-Horn(1-18 GHz) | SCHWARZBECK | BBHA 9120D | BH-EMC-L044 | 2024.03.11 | 2027.03.10 |
| Test Antenna-Horn (18-40 GHz) | A-INFO | LB-180400-KF | BH-EMC-L061 | 2024.03.11 | 2027.03.10 |
| Anechoic Chamber | YiHeng | 9m*6m*6m | BH-EMC-L001 | 2024.04.18 | 2027.04.17 |
| EMI Receiver | KEYSIGHT | N9038A | BH-EMC-L127 | 2026.02.05 | 2027.02.04 |
| LISN | SCHWARZBECK | NSLK 8127 | BH-EMC-L011 | 2026.02.04 | 2027.02.03 |
| 10dB Limiter | SCHWARZBECK | VTSD 9561-F | BH-EMC-L014 | 2026.02.04 | 2027.02.03 |
| Shielded Room | YiHeng | 5m*4m*3.2m | BH-EMC-L006 | 2024.02.22 | 2027.02.21 |

## 4.3 Test Software List

| Description | Manufacturer | Software Version | Serial No. | Applicable Test Setup |
|---|---|---|---|---|
| BL410R | BALUN | V3.5.2.642 | N/A | The section 4.6.1 |
| BL410E | BALUN | V21.919 | N/A | The section 4.6.2&4.6.3&4.6.4&4.6.5 |

## 4.4 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.
This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| Parameters | Uncertainty |
|---|---|
| Occupied Channel Bandwidth | 2.40 % |
| RF output power, conducted | 0.41 dB |
| Power Spectral Density, conducted | 1.74 dB |
| Unwanted Emissions, conducted | 1.74 dB |
| All emissions, radiated | 3.70 dB |
| Temperature | 0.82 °C |
| Humidity | 4.08 % |

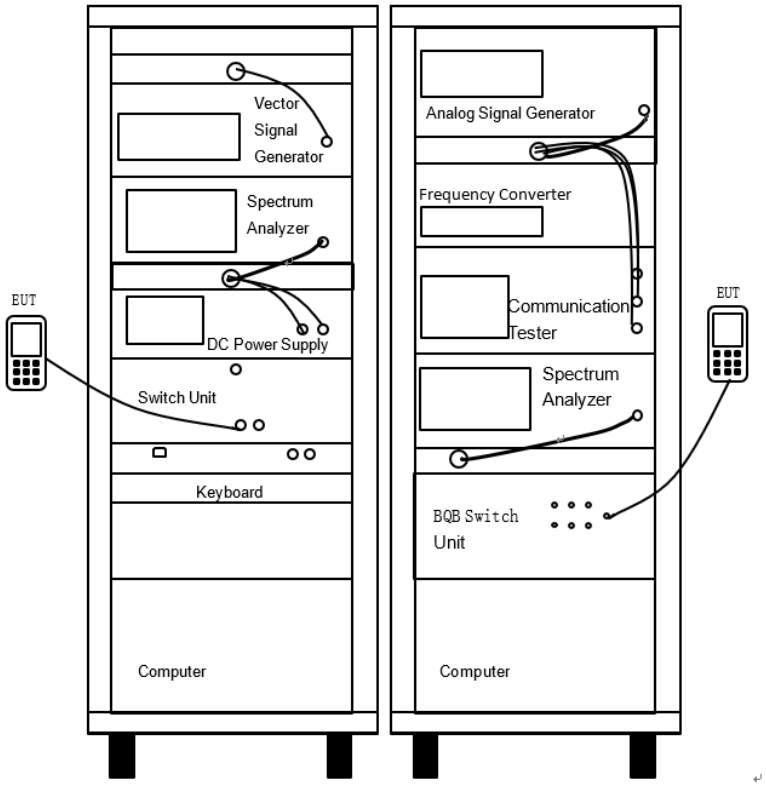
## 4.5 Decision Rule

☐ No Need
☒ Use General conformity decision rule (Consider uncertainty or not ☒No ☐Yes)
☐ Use Special Conformity Decision Rule (Consider uncertainty or not ☐No ☐Yes)

## 4.6 Description of Test Setup

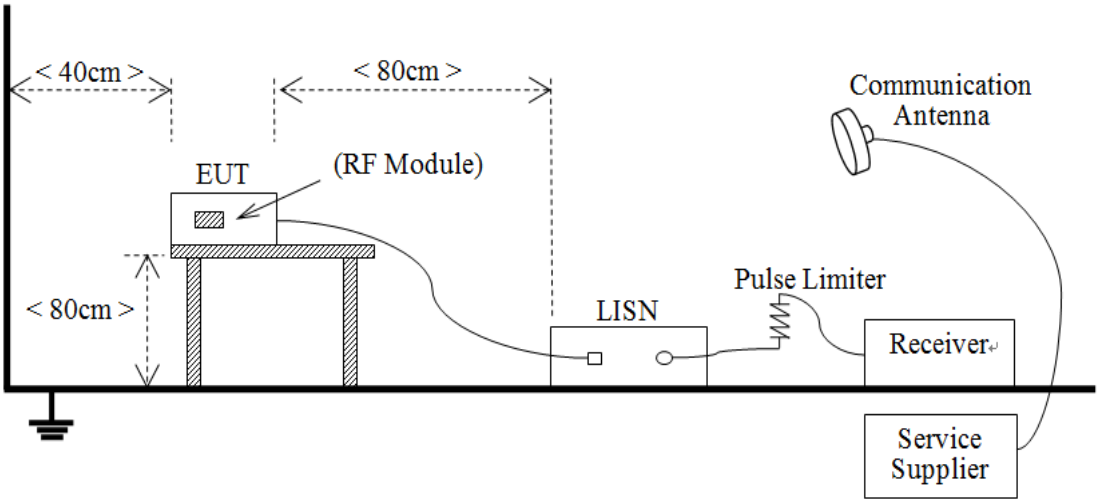
### 4.6.1 For Antenna Port Test

Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)
For example: the measurement value is 10 dBm and the cable 0.5 dB used, then the final result of EUT:
Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



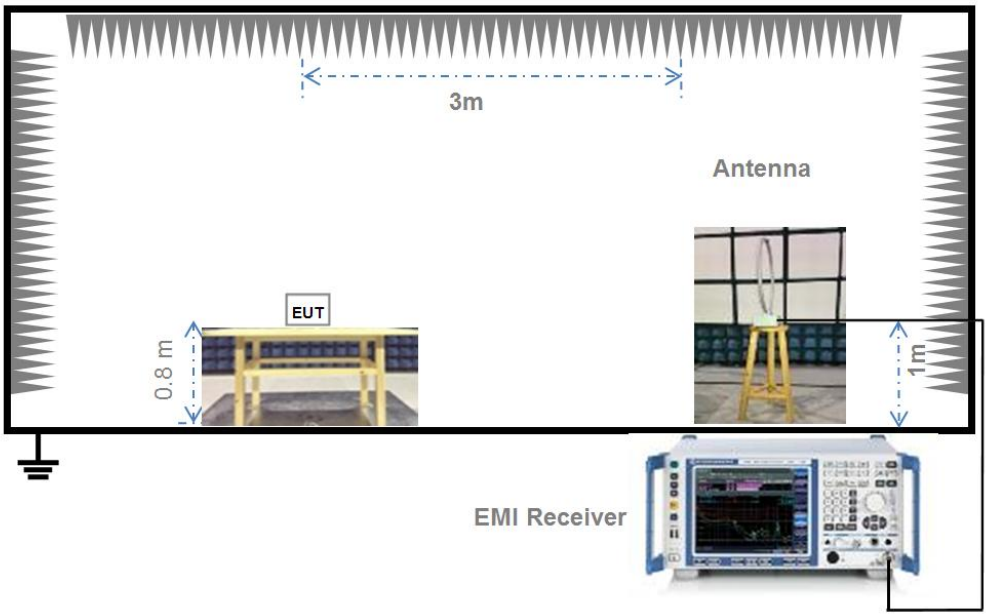

**(Diagram 1)**

### 4.6.2 For AC Power Supply Port Test



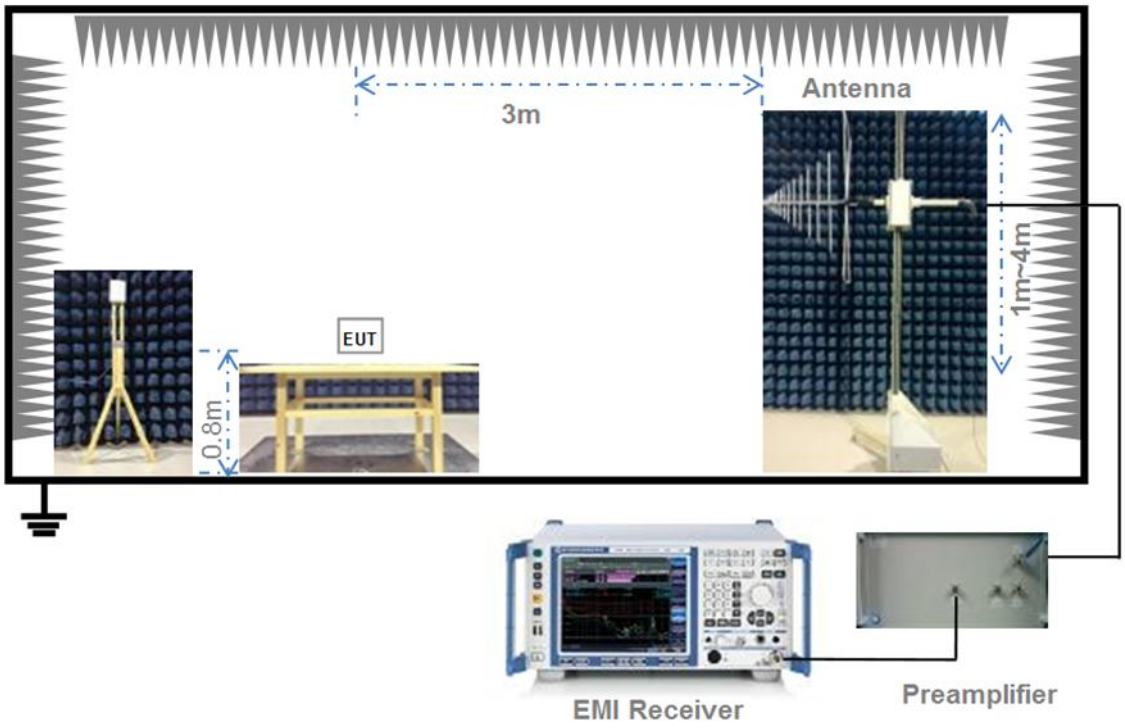

**(Diagram 2)**

### 4.6.3 For Radiated Test (Below 30 MHz)



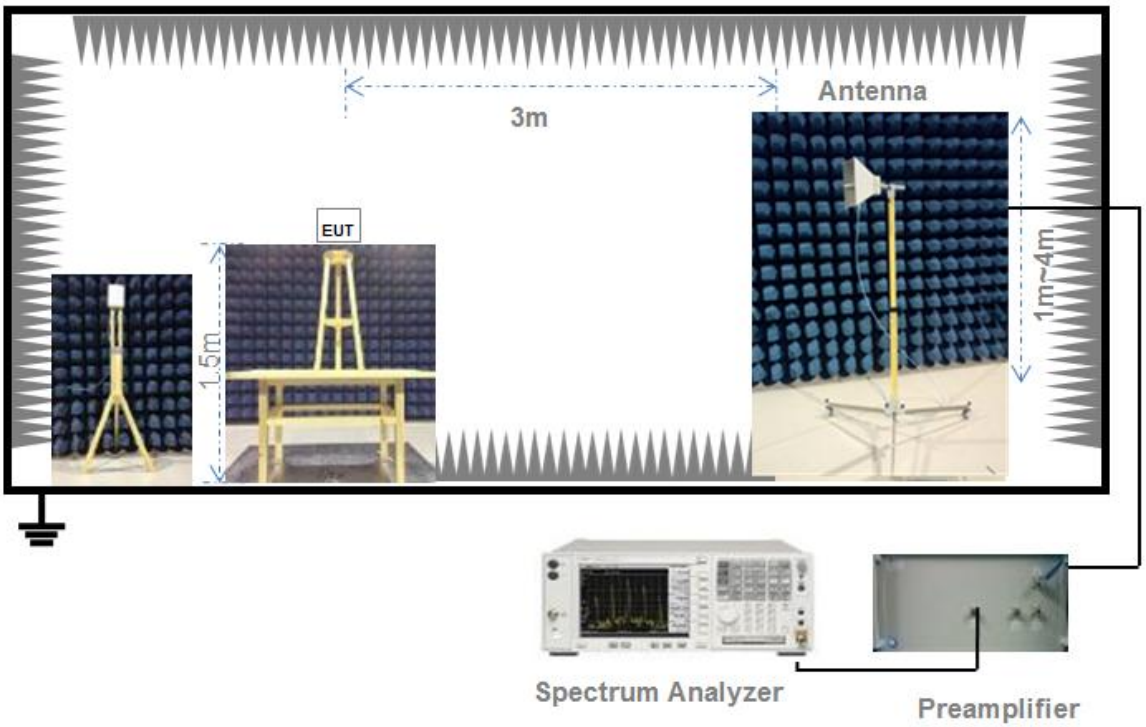

**(Diagram 3)**

### 4.6.4 For Radiated Test (30 MHz-1 GHz)




**(Diagram 4)**

### 4.6.5 For Radiated Test (Above 1 GHz)




**(Diagram 5)**

## 4.7 Measurement Results Explanation Example

### 4.7.1 For conducted test items:

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

### 4.7.2 For radiated band edges and spurious emission test:

$$E = EIRP - 20\log D + 104.8$$

where:

E = electric field strength in dBμV/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

EIRP= Measure Conducted output power Value (dBm) + Maximum transmit antenna gain (dBi) + the appropriate maximum ground reflection factor (dB)

# 5 TEST ITEMS

## 5.1 Antenna Requirements

### 5.1.1 Relevant Standards

FCC §15.203; RSS-GEN, 6.8

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

### 5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

| Protected Method | Description |
|---|---|
| The antenna is embedded in the product. | An embedded-in antenna design is used. |

| Reference Documents | Item |
|---|---|
| Photo | Please refer to the EUT Photo documents. |

### 5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

## 5.2 Output Power

### 5.2.1 Test Limit

FCC § 15.247(b)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements.

RSS-247, 6.3.2

For DTS operating in the band 902-928 MHz, the maximum peak conducted output power shall not exceed 1W, and the e.i.r.p. shall not exceed 4 W.
For DTS operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W, and the e.i.r.p. shall not exceed 4 W, except as provided in section 6.5 a) and b), the e.i.r.p. can be higher than 4 W.

### 5.2.2 Test Setup

See section 4.6.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.2.3 Test Procedure

<u>Maximum peak conducted output power</u>

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
The EUT shall be transmitted at its maximum power control level.
EIRP= Maximum peak conducted output power +Antenna Gain.

<u>Maximum conducted (average) output power (Reporting Only)</u>

a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

1) The EUT is configured to transmit continuously, or to transmit with a constant duty factor.

2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.

3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal.

c) Measure the average power of the transmitter. This measurement is an average over both the on and

off periods of the transmitter.

d) Adjust the measurement in dBm by adding 10log (1/x), where x is the duty cycle.

Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.

Set VBW ≥ RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T ≤ 16.7 microseconds.)

### 5.2.4 Test Result

Please refer to ANNEX A.1.

## 5.3 Occupied Bandwidth

### 5.3.1 Limit

FCC §15.247(a); RSS-247, 6.3.1 (a); RSS-247, 5.2 (a)

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.

### 5.3.2 Test Setup

See section 4.6.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.3.3 Test Procedure

Use the following spectrum analyzer settings:

Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.

Set the video bandwidth (VBW) ≥ 3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = No faster than coupled (auto) time.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 5.3.4 Test Result

Please refer to ANNEX A.2.

## 5.4 Conducted Spurious Emission

### 5.4.1 Limit

FCC §15.247(d); RSS-247, 6.6

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

### 5.4.2 Test Setup

See section 4.6.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.4.3 Test Procedure

The DTS rules specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

a) If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power 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 (i.e., 20 dBc).

b) If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

c) In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required.

The following procedures shall be used to demonstrate compliance to these limits. Note that these procedures can be used in either an antenna-port conducted or radiated test set-up. Radiated tests must conform to the test site requirements and utilize maximization procedures defined herein.

<u>Reference level measurement</u>

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW ≥ 3 RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Emission level measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

Set the RBW = 100 kHz.

Set the VBW ≥ 3 RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

### 5.4.4 Test Result

Please refer to ANNEX A.3.

## 5.5 Band Edge (Authorized-band band-edge)

### 5.5.1 Limit

FCC §15.247(d); RSS-GEN, 8.9, RSS-247, 6.6

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

### 5.5.2 Test Setup

See section 4.6.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.5.3 Test Procedure

The following procedures may be used to determine the peak or average field strength or power of an unwanted emission that is within 2 MHz of the authorized band edge. If a peak detector is utilized, use the procedure described in 13.2.1. Use the procedure described in 13.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., duty cycle ≥ 98%). Use the procedure described in 13.2.3 when using an average detector and the EUT cannot be configured to transmit continuously but the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent). Use the procedure described in 13.2.4 when using an average detector for those cases where the EUT cannot be configured to transmit continuously and the duty cycle is not constant (duty cycle variations equal or exceed 2 percent).

When using a peak detector to measure unwanted emissions at or near the band edge (within 2 MHz of the authorized band), the following integration procedure can be used.

Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).

Set span to 2 MHz

RBW = 100 kHz.

VBW ≥ 3 RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweep to continue until the trace stabilizes (required measurement time may increase for low duty cycle applications)

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band power measurement function with band limits set equal to the emission frequency (femission) ± 0.5 MHz. If the instrument does not have a band power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by femission ± 0.5 MHz.

Standard method (The 99% OBW of the fundamental emission is without 2 MHz of the authorized band):

Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.

Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

Attenuation: Auto (at least 10 dB preferred).

Sweep time: Coupled.

Resolution bandwidth: 100 kHz.

Video bandwidth: 300 kHz.

Detector: Peak.

Trace: Max hold.

### 5.5.4 Test Result

Please refer to ANNEX A.4.

## 5.6 Conducted Emission

### 5.6.1 Limit

FCC §15.207; RSS-GEN, 8.8

For an intentional radiator 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 within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

| Frequency range (MHz) | Conducted Limit (dBμV) | |
|---|---|---|
| | Quai-peak | Average |
| 0.15 - 0.50 | 66 to 56 | 56 to 46 |
| 0.50 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

### 5.6.2 Test Setup

See section 4.6.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

### 5.6.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.
Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

### 5.6.4 Test Result

Please refer to ANNEX A.5.

## 5.7 Radiated Spurious Emission

### 5.7.1 Limit

FCC §15.209&15.247(d); RSS-247, 6.6

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength (μV/m) | Measurement Distance (m) |
|---|---|---|
| 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 |

Note:

1. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
2. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

### 5.7.2 Test Setup

See section 4.6.3 to 4.6.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.7.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

General Procedure for conducted measurements in restricted bands

a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).

b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)

c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).

d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).

e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$E = EIRP – 20\log D + 104.8$

where:

E = electric field strength in dBμV/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

f) Compare the resultant electric field strength level to the applicable limit.

g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows:

a) RBW = as specified in Table 1.
b) VBW ≥ 3 x RBW.
c) Detector = Peak.
d) Sweep time = auto.
e) Trace mode = max hold.
f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

Table 1—RBW as a function of frequency

| Frequency | RBW |
|---|---|
| 9-150 kHz | 200-300 Hz |
| 0.15-30 MHz | 9-10 kHz |
| 30-1000 MHz | 100-120 kHz |
| > 1000 MHz | 1 MHz |

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT (i.e., duty cycle ≥ 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then the following procedure shall be used:

a) The EUT shall be configured to operate at the maximum achievable duty cycle.
b) Measure the duty cycle, x, of the transmitter output signal as described in section 6.0.
c) RBW = 1 MHz (unless otherwise specified).
d) VBW ≥ 3 RBW.
e) Detector = RMS, if span/(# of points in sweep) ≤ (RBW/2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
f) Averaging type = power (i.e., RMS).
1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
g) Sweep time = auto.
h) Perform a trace average of at least 100 traces.
i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is 10 log(1/x), where x is the duty cycle.
2) If linear voltage averaging mode was used in step f), then the applicable correction factor is 20 log(1/x), where x is the duty cycle.
3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.
NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

Determining the applicable transmit antenna gain

A conducted power measurement will determine the maximum output power associated with a restricted band emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

Radiated spurious emission test

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured
RBW = 1 MHz for f ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold

### 5.7.4 Test Result

Please refer to ANNEX A.6.

## 5.8 Band Edge (Restricted-band band-edge)

### 5.8.1 Limit

FCC §15.209&15.247(d); RSS-247, 6.6

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

### 5.8.2 Test Setup

See section 4.6.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.8.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured
RBW = 1 MHz for f ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

For transmitters operating above 1 GHz repeat the measurement with an average detector.

### 5.8.4 Test Result

Please refer to ANNEX A.7.

## 5.9 Power Spectral density (PSD)

### 5.9.1 Limit

FCC §15.247(e); RSS-247, 6.3.1 (b)

The same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

the transmitter power spectral density conducted from the transmitter to the antenna(s) shall not be greater than 8 dBm/3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 6.3.2 The power spectral density shall be determined using the same method as is used to determine the maximum conducted output power.

### 5.9.2 Test Setup

See section 4.6.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.9.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.
Set the span to 1.5 times the DTS bandwidth.
Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
Set the VBW ≥ 3 RBW.
Detector = peak.
Sweep time = auto couple.
Trace mode = max hold.
Allow trace to fully stabilize.
Use the peak marker function to determine the maximum amplitude level within the RBW.
If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 5.9.4 Test Result

Please refer to ANNEX A.8.

# ANNEX A TEST RESULT

## A.1 Output Power

Duty Cycle

| Test Mode | On Time (ms) | On+Off time (ms) | Duty Cycle |
|---|---|---|---|
| 802.11b | 1.00 | 1.00 | 100.00% |
| 802.11g | 2.02 | 2.53 | 79.98% |
| 802.11n-20 MHz | 1.89 | 2.39 | 78.85% |
| 802.11n-40 MHz | 0.92 | 1.43 | 64.53% |

Peak Power Test Data

802.11b Mode:

| Channel | Measured Output Peak Power | | Limit | | Verdict |
|---|---|---|---|---|---|
| | dBm | mW | dBm | mW | |
| Low | 23.78 | 238.78 | 30 | 1000 | Pass |
| Middle | 21.01 | 126.18 | | | Pass |
| High | 23.76 | 237.68 | | | Pass |

802.11g Mode:

| Channel | Measured Output Peak Power | | Limit | | Verdict |
|---|---|---|---|---|---|
| | dBm | mW | dBm | mW | |
| Low | 24.76 | 299.23 | 30 | 1000 | Pass |
| Middle | 24.58 | 287.08 | | | Pass |
| High | 23.45 | 221.31 | | | Pass |

802.11n-20 MHz Mode:

| Channel | Measured Output Peak Power | | Limit | | Verdict |
|---|---|---|---|---|---|
| | dBm | mW | dBm | mW | |
| Low | 24.39 | 274.79 | 30 | 1000 | Pass |
| Middle | 24.31 | 269.77 | | | Pass |
| High | 23.05 | 201.84 | | | Pass |

802.11n-40 MHz Mode:

| Channel | Measured Output Peak Power | | Limit | | Verdict |
|---|---|---|---|---|---|
| | dBm | mW | dBm | mW | |
| Low | 24.33 | 271.02 | 30 | 1000 | Pass |
| Middle | 24.25 | 266.07 | | | Pass |
| High | 21.93 | 155.96 | | | Pass |

E.I.R.P Test Data (For ISED)

802.11b Mode:

| Channel | E.I.R.P | | Limit | | Verdict |
|---|---|---|---|---|---|
| | dBm | mW | dBm | W | |
| Low | 26.71 | 468.81 | 36 | 4 | Pass |
| Middle | 23.94 | 247.74 | | | Pass |
| High | 26.69 | 466.66 | | | Pass |

802.11g Mode:

| Channel | E.I.R.P | | Limit | | Verdict |
|---|---|---|---|---|---|
| | dBm | mW | dBm | W | |
| Low | 27.69 | 587.49 | 36 | 4 | Pass |
| Middle | 27.51 | 563.64 | | | Pass |
| High | 26.38 | 434.51 | | | Pass |

802.11n-20 MHz Mode:

| Channel | E.I.R.P | | Limit | | Verdict |
|---|---|---|---|---|---|
| | dBm | mW | dBm | W | |
| Low | 27.32 | 539.51 | 36 | 4 | Pass |
| Middle | 27.24 | 529.66 | | | Pass |
| High | 25.98 | 396.28 | | | Pass |

802.11n-40 MHz Mode:

| Channel | E.I.R.P | | Limit | | Verdict |
|---|---|---|---|---|---|
| | dBm | mW | dBm | W | |
| Low | 27.26 | 532.11 | 36 | 4 | Pass |
| Middle | 27.18 | 522.40 | | | Pass |
| High | 24.86 | 306.20 | | | Pass |

## A.2 Occupied Bandwidth

Test Data

802.11b Mode:

| Channel | 6 dB Bandwidth (MHz) | 99% Bandwidth (MHz) | 6 dB Bandwidth Limits (kHz) |
|---|---|---|---|
| Low | 10.20 | 13.86 | ⩾500 |
| Middle | 10.20 | 13.79 | ⩾500 |
| High | 10.30 | 13.90 | ⩾500 |

802.11g Mode:

| Channel | 6 dB Bandwidth (MHz) | 99% Bandwidth (MHz) | 6 dB Bandwidth Limits (kHz) |
|---|---|---|---|
| Low | 16.60 | 17.03 | ≥500 |
| Middle | 16.50 | 17.05 | ≥500 |
| High | 16.50 | 17.06 | ≥500 |

802.11n-20MHz Mode:

| Channel | 6 dB Bandwidth (MHz) | 99% Bandwidth (MHz) | 6 dB Bandwidth Limits (kHz) |
|---|---|---|---|
| Low | 17.60 | 18.16 | ≥500 |
| Middle | 17.60 | 18.19 | ≥500 |
| High | 17.60 | 18.13 | ≥500 |

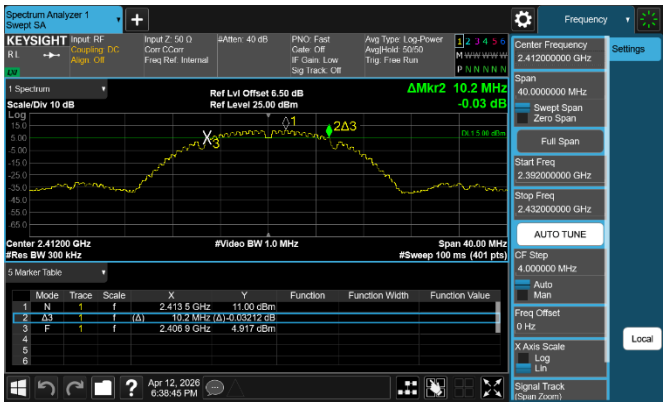
802.11n-40MHz Mode:

| Channel | 6 dB Bandwidth (MHz) | 99% Bandwidth (MHz) | 6 dB Bandwidth Limits (kHz) |
|---|---|---|---|
| Low | 36.00 | 35.85 | ≥500 |
| Middle | 36.20 | 35.90 | ≥500 |
| High | 36.40 | 35.86 | ≥500 |

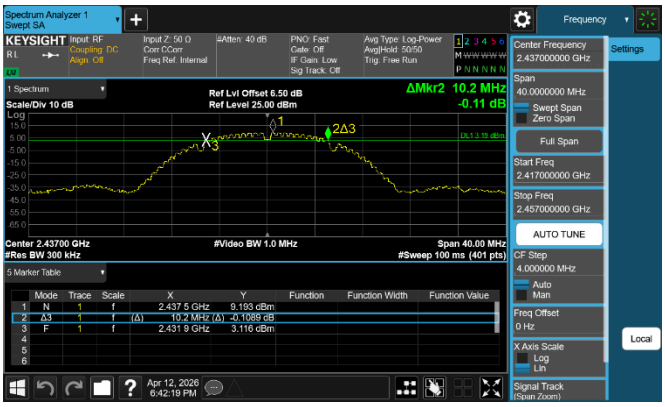
## Test Plots

## 6 dB Bandwidth

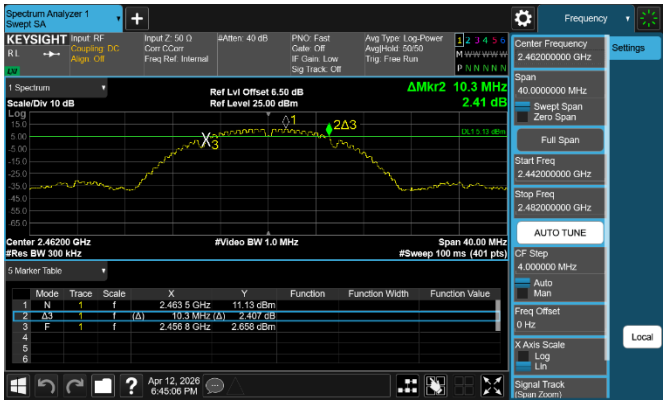
### 802.11b LOW CHANNEL



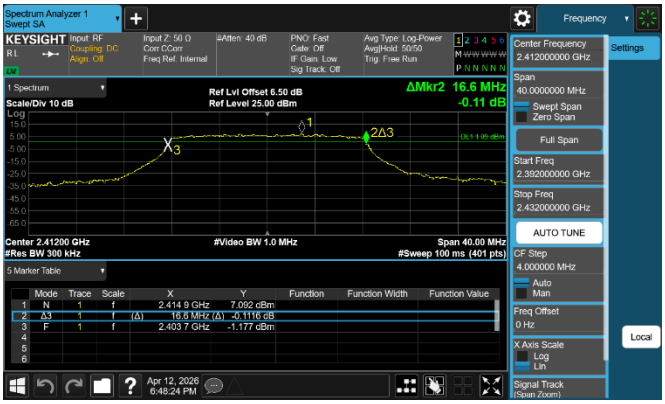

### 802.11b MIDDLE CHANNEL




### 802.11b HIGH CHANNEL



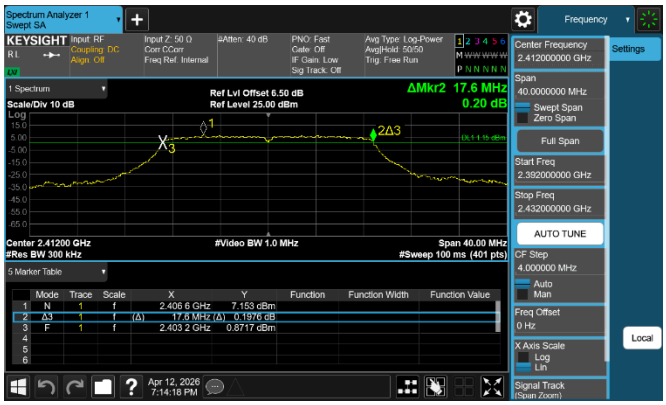

### 802.11g LOW CHANNEL



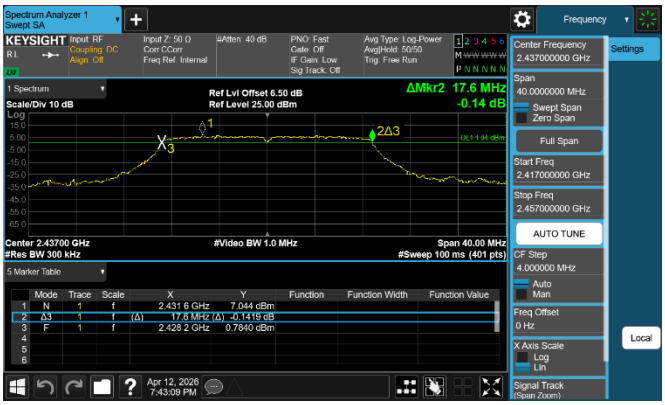

### 802.11g MIDDLE CHANNEL

### 802.11g HIGH CHANNEL

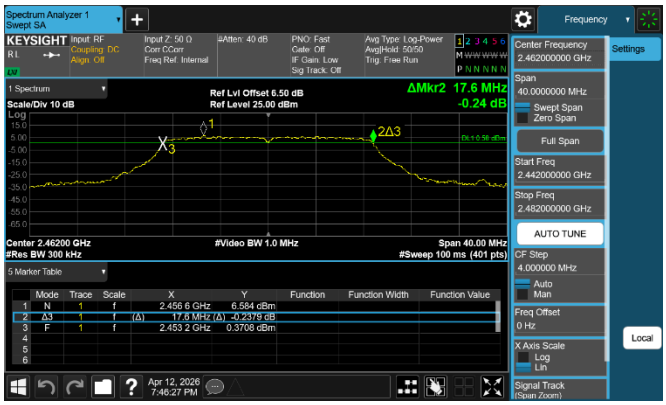
802.11n-20 MHz LOW CHANNEL




802.11n-20 MHz MIDDLE CHANNEL

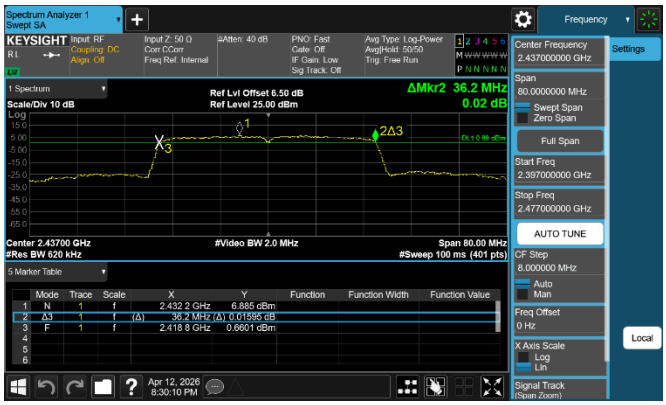



802.11n-20 MHz HIGH CHANNEL




802.11n-40 MHz LOW CHANNEL

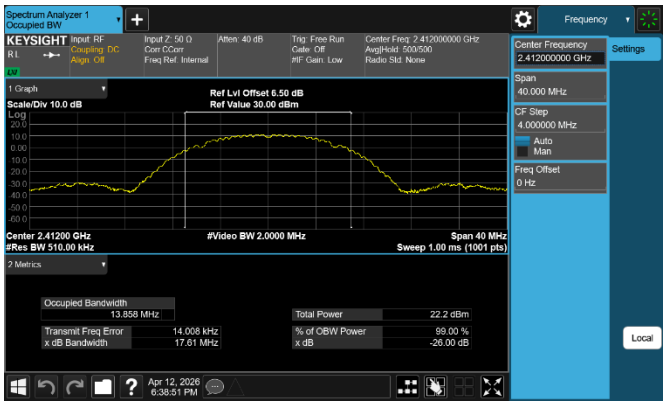
802.11n-40 MHz MIDDLE CHANNEL



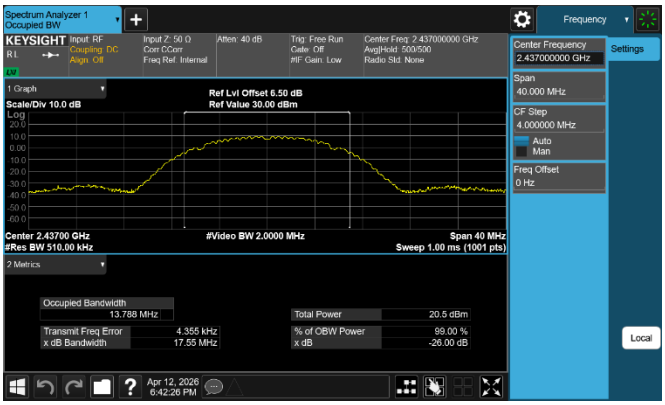

802.11n-40 MHz HIGH CHANNEL

## 99% Bandwidth

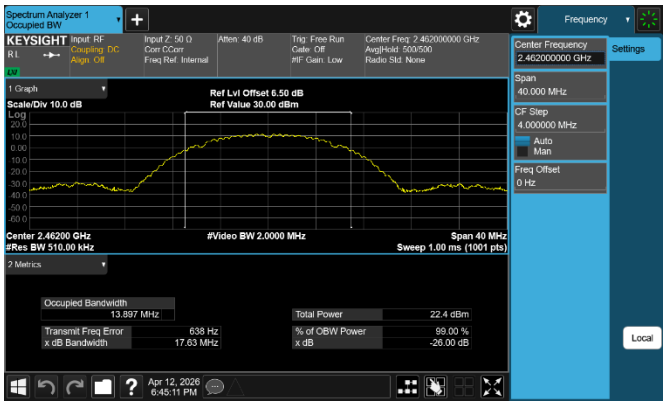
### 802.11b LOW CHANNEL



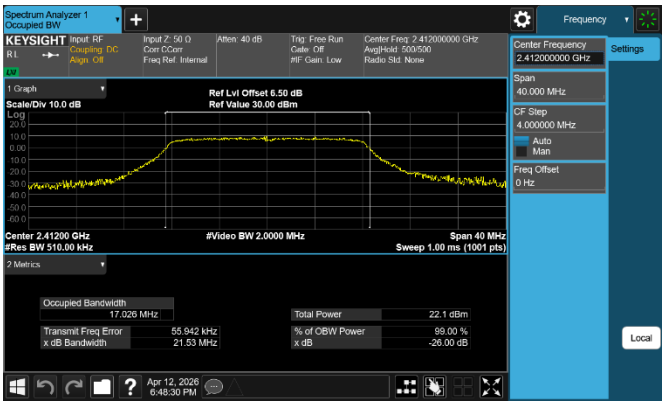

### 802.11b MIDDLE CHANNEL



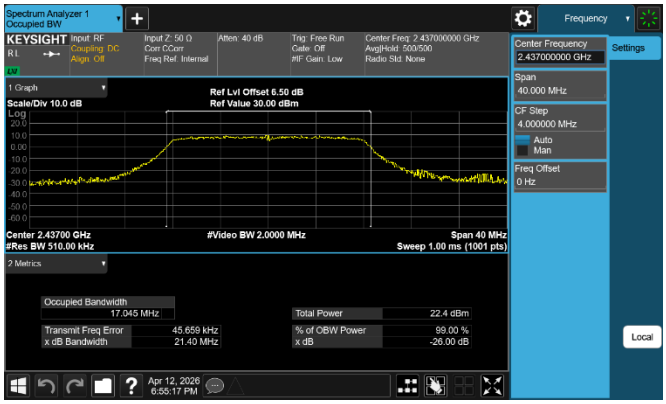

### 802.11b HIGH CHANNEL



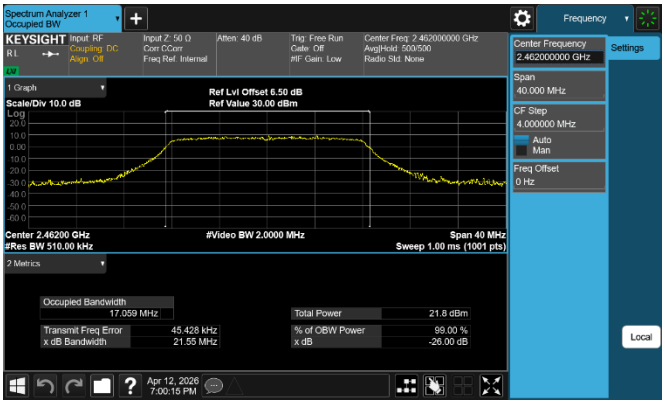

### 802.11g LOW CHANNEL



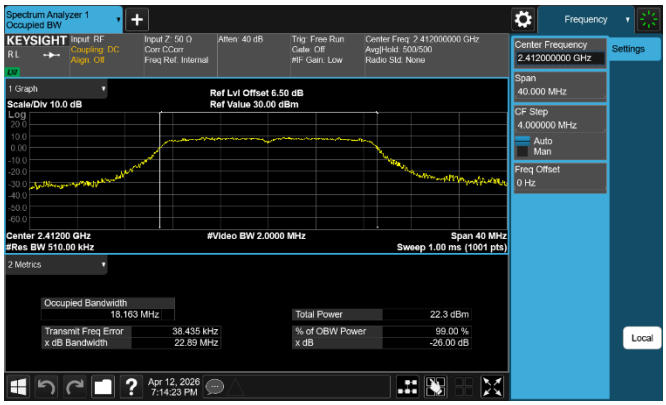

### 802.11g MIDDLE CHANNEL



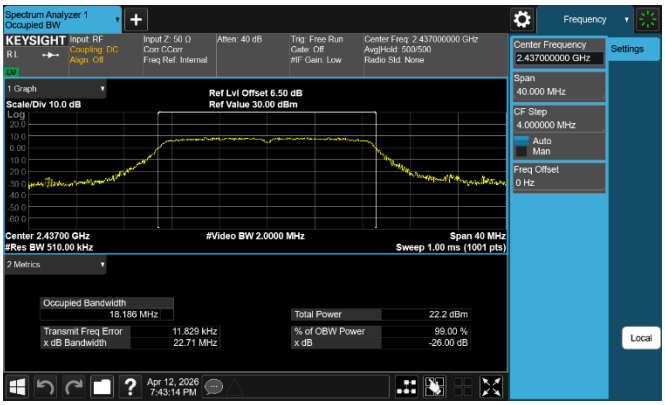

### 802.11g HIGH CHANNEL



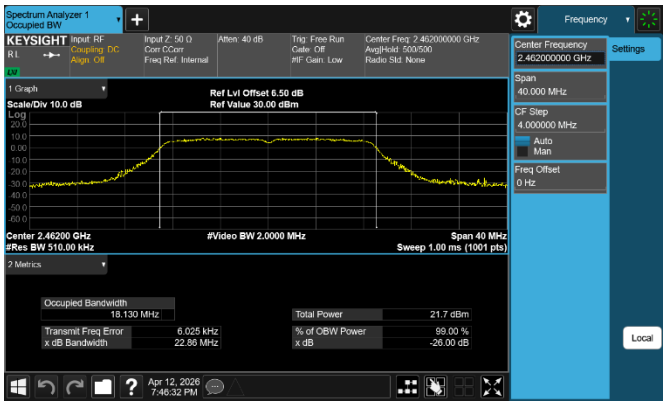
802.11n-20 MHz LOW CHANNEL



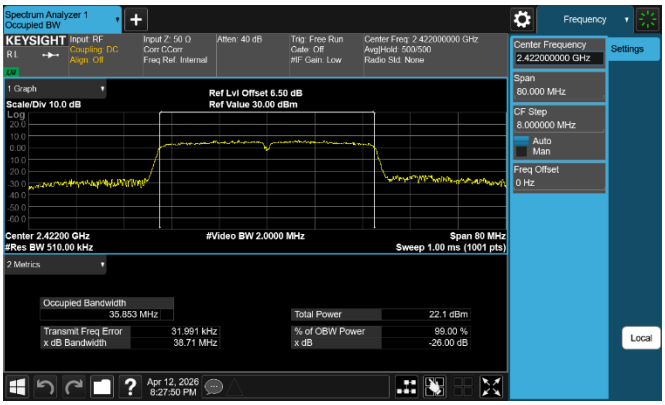

802.11n-20 MHz MIDDLE CHANNEL



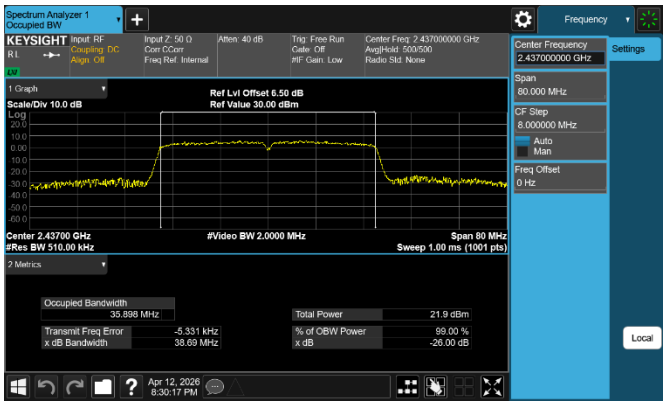

802.11n-20 MHz HIGH CHANNEL



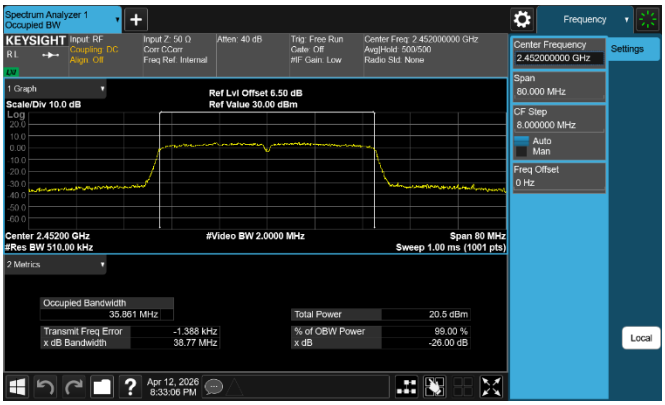

802.11n-40 MHz LOW CHANNEL




802.11n-40 MHz MIDDLE CHANNEL




802.11n-40 MHz HIGH CHANNEL



## A.3 Conducted Spurious Emission

Test Data

802.11b Mode:

| Channel | Measured Max. Out of Band Emission (dBm) | Limit (dBm) | | Verdict |
|---|---|---|---|---|
| | | Carrier Level | Calculated 20 dBc Limit | |
| Low | -43.48 | 10.57 | -9.43 | Pass |
| Middle | -45.56 | 9.20 | -10.80 | Pass |
| High | -45.45 | 11.04 | -8.96 | Pass |

802.11g Mode:

| Channel | Measured Max. Out of Band Emission (dBm) | Limit (dBm) | | Verdict |
|---|---|---|---|---|
| | | Carrier Level | Calculated 20 dBc Limit | |
| Low | -46.95 | 4.76 | -15.24 | Pass |
| Middle | -45.51 | 4.84 | -15.16 | Pass |
| High | -46.60 | 4.32 | -15.68 | Pass |

802.11n-20MHz Mode:

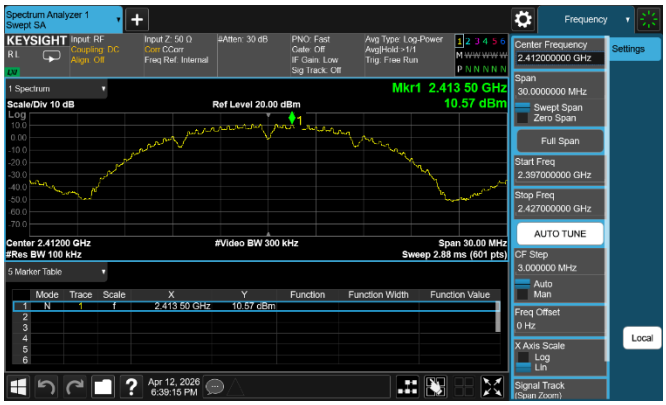
| Channel | Measured Max. Out of Band Emission (dBm) | Limit (dBm) | | Verdict |
|---|---|---|---|---|
| | | Carrier Level | Calculated 20 dBc Limit | |
| Low | -47.41 | 4.69 | -15.31 | Pass |
| Middle | -46.95 | 4.55 | -15.45 | Pass |
| High | -47.25 | 3.46 | -16.54 | Pass |

802.11n-40MHz Mode:

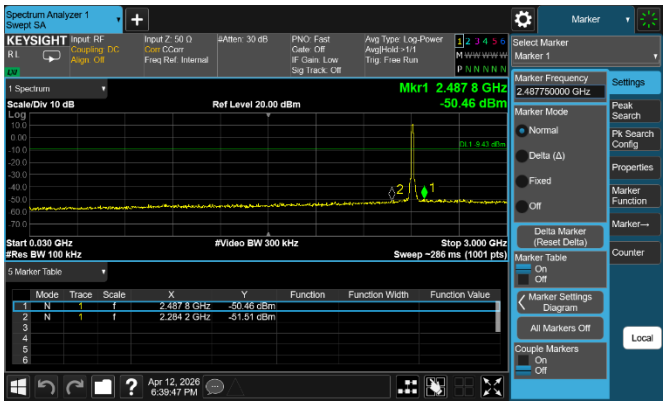
| Channel | Measured Max. Out of Band Emission (dBm) | Limit (dBm) | | Verdict |
|---|---|---|---|---|
| | | Carrier Level | Calculated 20 dBc Limit | |
| Low | -46.58 | 1.77 | -18.23 | Pass |
| Middle | -46.95 | 1.39 | -18.61 | Pass |
| High | -46.44 | -0.04 | -20.04 | Pass |

## Test Plots

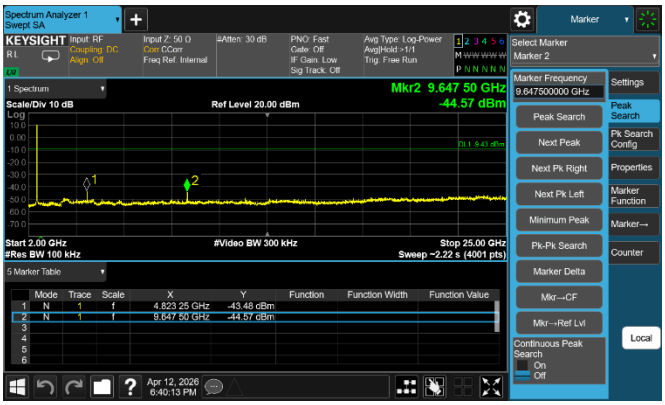
### 802.11b LOW CHANNEL CARRIER LEVEL




### 802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

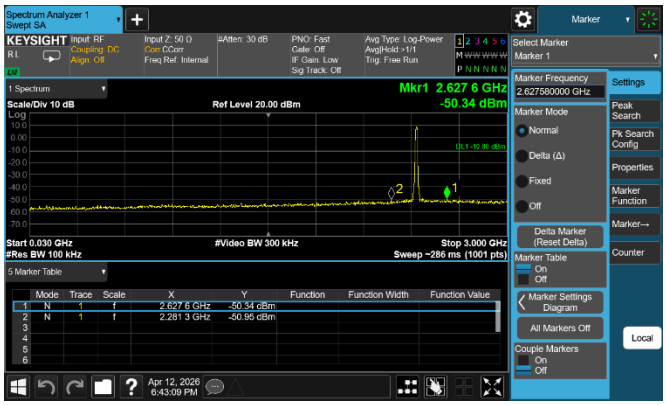



### 802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

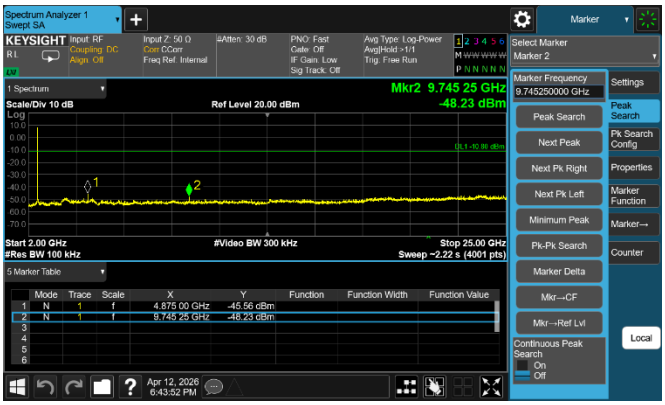



### 802.11b MIDDLE CHANNEL CARRIER LEVEL

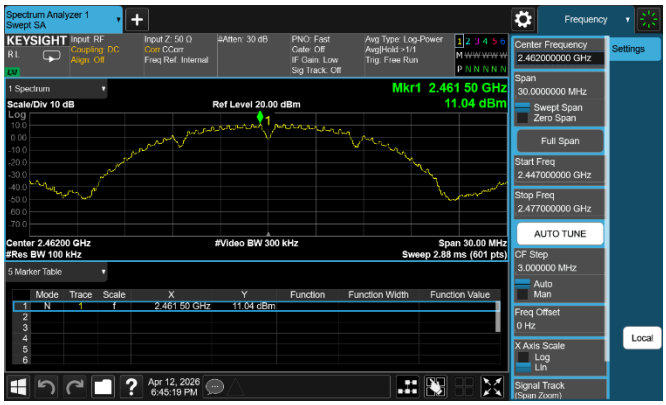
802.11b MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



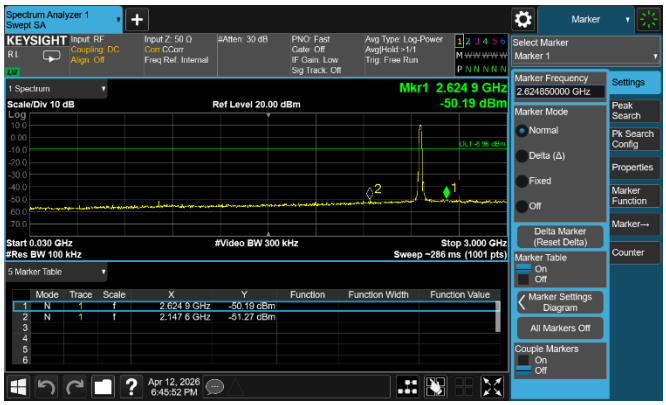

802.11b MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



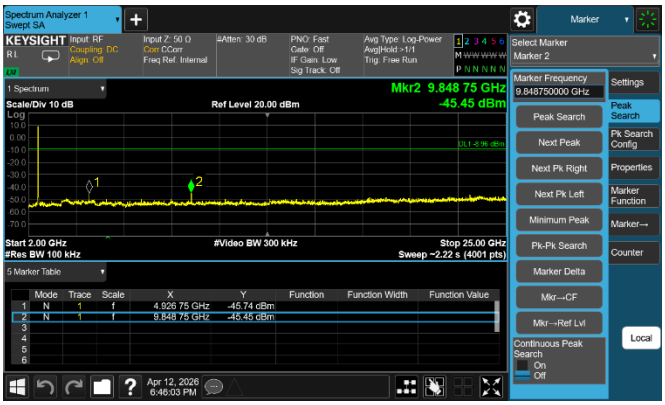

802.11b HIGH CHANNEL CARRIER LEVEL



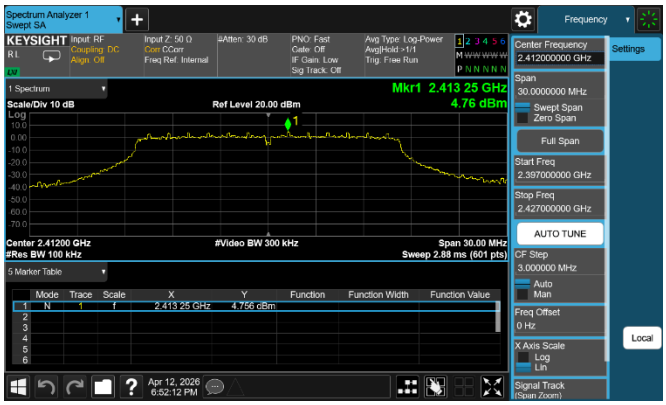

802.11b HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



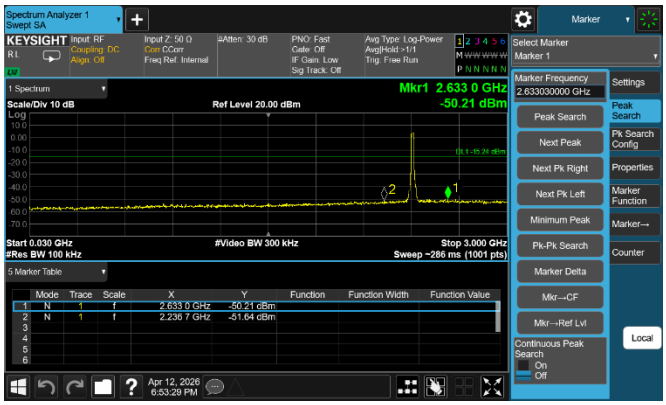

802.11b HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



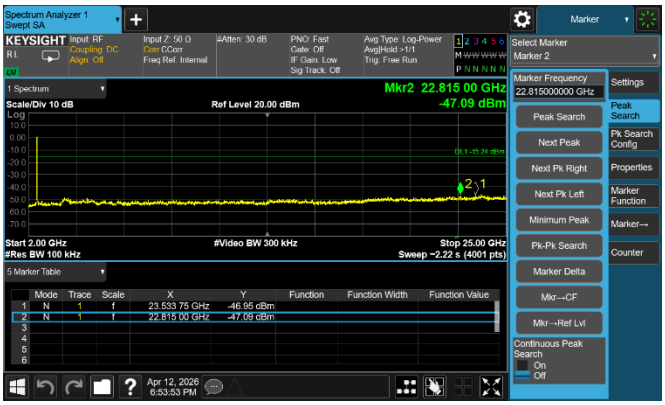
## 802.11g LOW CHANNEL CARRIER LEVEL

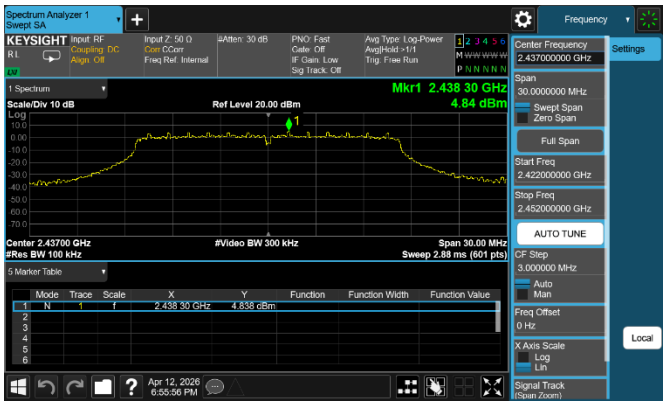



## 802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz




## 802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz




## 802.11g MIDDLE CHANNEL CARRIER LEVEL