



TEST REPORT

Applicant: Acer Incorporated
Address: 8F, 88, Sec.1 Xintai 5th Rd. Xizhi, New Taipei City
221, Taiwan
Equipment Type: Tablet PC
Model Name: A25013
Brand Name: acer
Marketing Name: Iconia X11, X11-11M
FCC ID: HLZA25013
ISED Number: 1754F-A25013
Test Standard: 47 CFR Part 15 Subpart C
RSS-Gen Issue 5
RSS-247 Issue 4
(refer to section 3.1)
Sample Arrival Date: Aug. 07, 2025
Test Date: Aug. 19, 2025 - Sep. 03, 2025
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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Julie Zhu**Checked by:** Ye Hongji**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Dec. 26, 2025</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Acer Incorporated
Address	8F, 88, Sec.1 Xintai 5th Rd. Xizhi, New Taipei City 221, Taiwan

2.2 Manufacturer Information

Manufacturer	Acer Incorporated
Address	8F, 88, Sec.1 Xintai 5th Rd. Xizhi, New Taipei City 221, Taiwan

2.3 General Description for Equipment under Test (EUT)

EUT Name	Tablet PC
Model Name Under Test	A25013
Series Model Name	N/A
Description of Model name differentiation	N/A
Marketing Name	Iconia X11, X11-11M
Serial Number	NBLK511001529100019H00
Hardware Version	RC-NF1060
Software Version	Android 15
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac and 802.11ax GPS, GLONASS
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	802.11b/g/n/ax(20 MHz): 2.412 GHz - 2.462 GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 1 to 11. 802.11n/ax(40 MHz): 2.422 GHz - 2.452 GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 3 to 9.
Modulation Technology	DSSS, OFDM, OFDMA
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PIFA Antenna
Antenna Gain	3.94 dBi
About the Product	Only the WIFI 802.11b, 802.11g, 802.11n (HT20/40) and 802.11ax (HE20/40) was tested in this report.

802.11ax RU configuration table					
Mode	Full RU (SU)	RU_26	RU_52	RU_106	RU_242
802.11ax20	√	--	--	--	--
802.11ax40	√	--	--	--	--

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
OFDMA (802.11ax-20 MHz)	BPSK	4
	QPSK	16/24/17/26
	16QAM	33/49/34/52
	64QAM	65/73/81/69/77/86
	256QAM	98/108/103/115
	1024QAM	122/135/129/143
OFDMA (802.11ax-40 MHz)	BPSK	8/9
	QPSK	33/49/34/52
	16QAM	65/98/69/103
	64QAM	130/146/163/138/155/172
	256QAM	195/217/207/229
	1024QAM	244/271/258/287

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/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Occupied Bandwidth	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Conducted Spurious Emission	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Conducted Emission	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Radiated Spurious Emission	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Band Edge	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Power spectral density (PSD)	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9

Note: The above EUT information in section 2.4 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 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024☆	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
5	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-247, 6.5 (c)	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-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	52% to 62%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22.8℃ to +24.7℃
Working Voltage of the EUT	NV (Normal Voltage)	3.80 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420186	2025.05.21	2026.05.20
Power meter	R&S	NRP8S	101498	2025.07.07	2026.07.06
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060127	2025.02.27	2026.02.26
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Test Antenna-Bi-Log	Schwarzbeck	VULB 9163	01414	2023.11.03	2026.11.02
Test Antenna-Horn	Schwarzbeck	BBHA 9120D	02459	2023.10.26	2026.10.25
Test Antenna-Loop	Schwarzbeck	FMZB 1513-60	00015	2024.05.07	2026.05.06
Anechoic Chamber	YIHENG	C8-966	N/A	2024.05.15	2027.05.11
EMI Receiver	Keysight	N9038A	MY55330121	2025.04.16	2026.04.15
EMI Receiver	keysight	N9038B	MY61380132	2025.04.01	2026.03.31
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK8127	01009	2025.07.15	2026.07.14
Shielded Enclosure	YiHeng Electronic Co., Ltd	4.3m*2.9m*2.4 m	235	2024.11.05	2027.11.04

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V22.930	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

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	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8℃
Humidity	4%

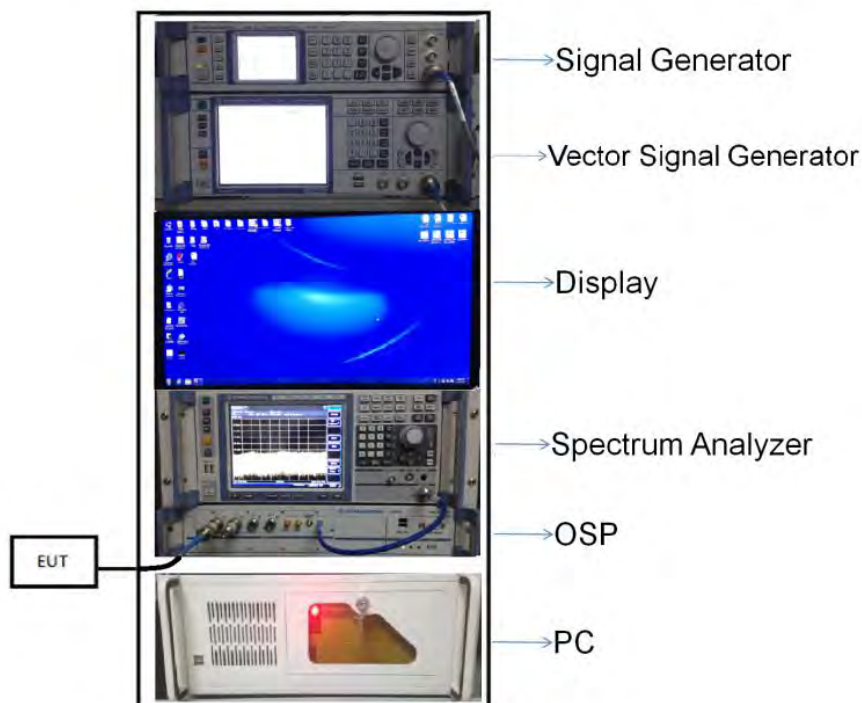
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

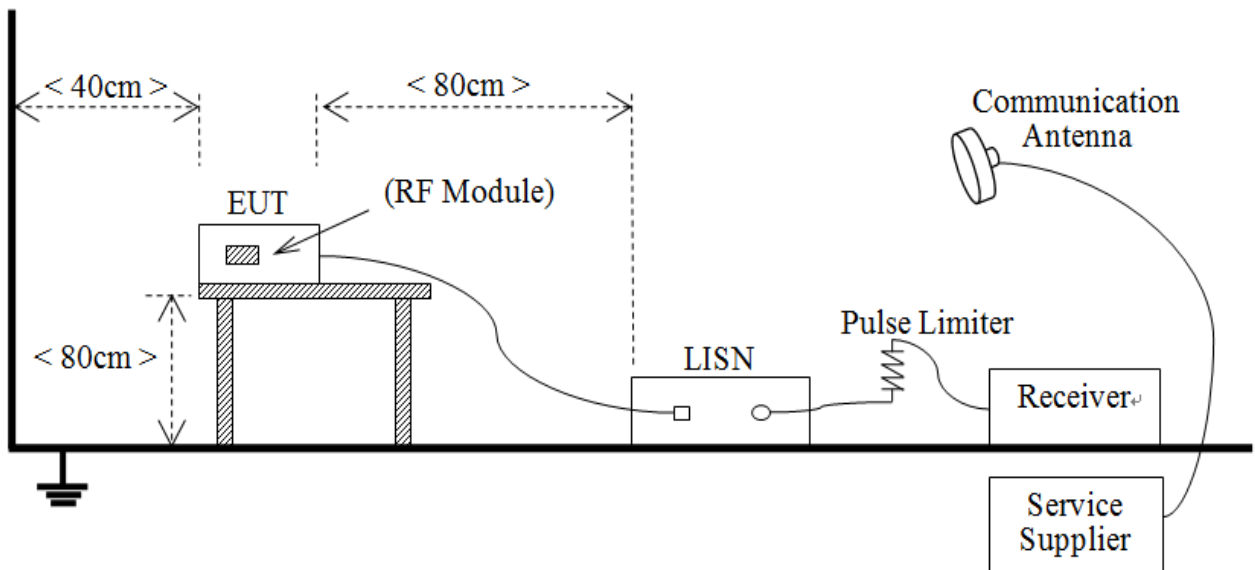
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



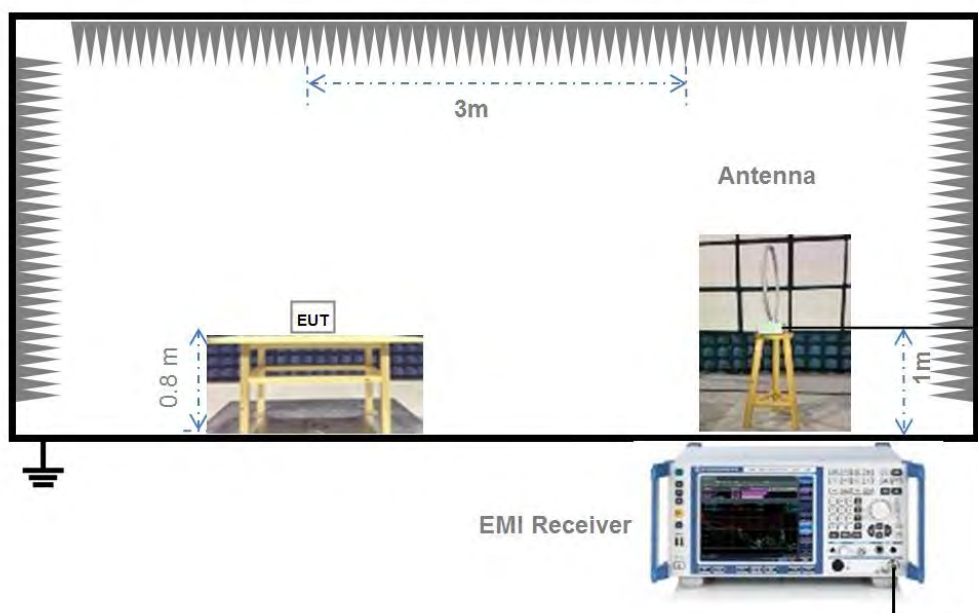
(Diagram 1)

4.5.2 For AC Power Supply Port Test



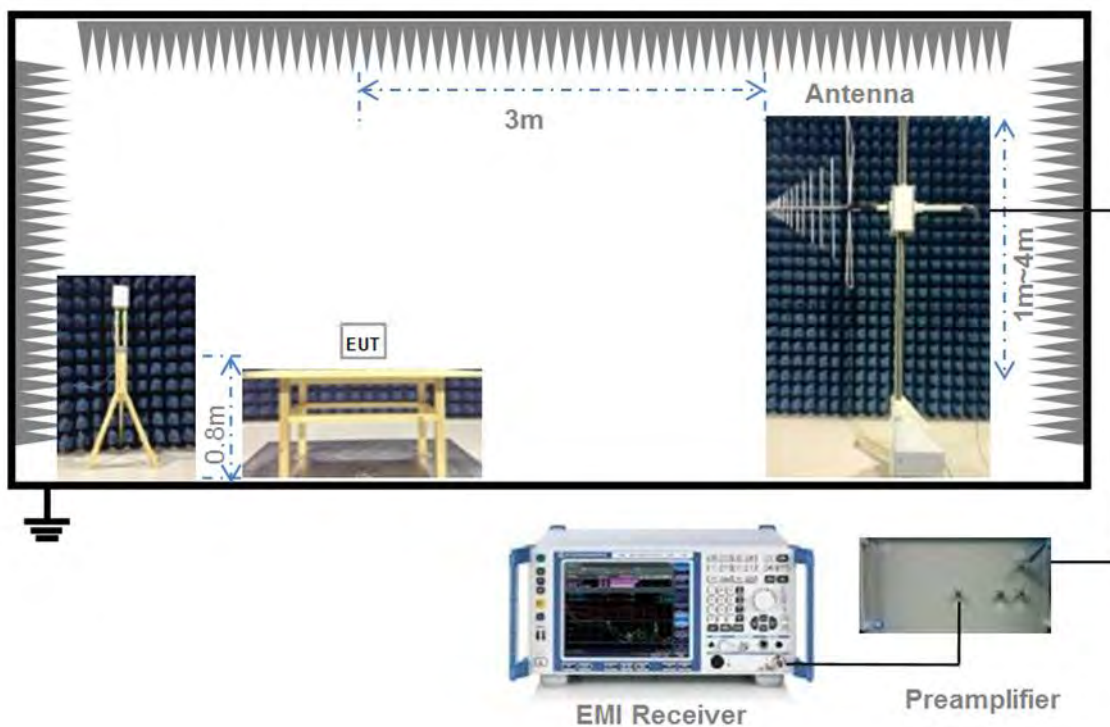
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



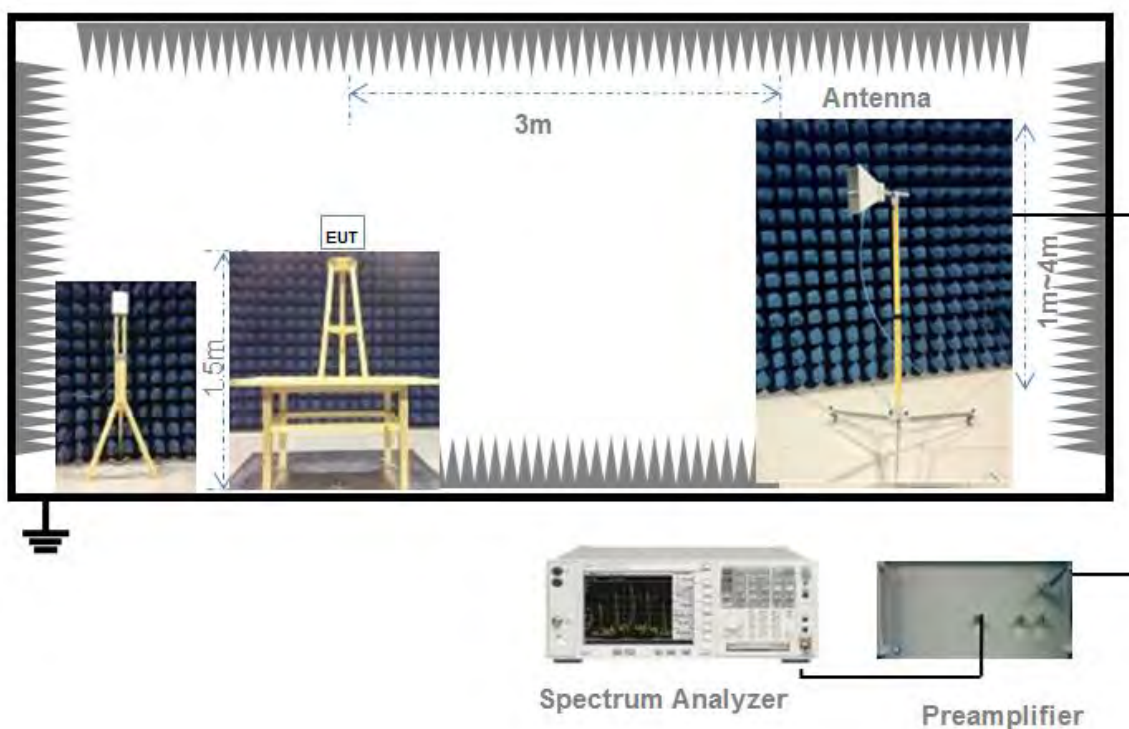
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.6 Measurement Results Explanation Example

4.6.1 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.

4.6.2 For radiated band edges and spurious emission test:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/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-247, 6.5 (c)

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); RSS-247, 6.3.2

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 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).

5.2.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Maximum peak conducted output power

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.

Maximum conducted (average) output power (Reporting Only)

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 $10\log(1/x)$, 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 $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.

Set $VBW \geq RBW$. 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 $T \leq 16.7$ 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-GEN, 6.7; RSS-247, 6.3.1(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 4.5.1 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 = 100 kHz.

Set the video bandwidth (VBW) ≥ 3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

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 4.5.1 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.

Reference level measurement

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 $\geq 3 \times$ 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 $\geq 3 \times$ 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 4.5.1 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 $\geq 98\%$). 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 $\geq 3 \times$ 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 $[10 \log (\text{OBW/RBW})]$ 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 50 μ H/50 Ω line impedance stabilization network (LISN).

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

5.6.2 Test Setup

See section 4.5.2 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 ($\mu\text{V/m}$)	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 4.5.3 to 4.5.5 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:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/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 $\geq 3 \times$ 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 $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. 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 $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ 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 4.5.1 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 $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ 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.

5.9.2 Test Setup

See section 4.5.1 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: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

Set the VBW $\geq 3 \text{ RBW}$.

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	Duty Factor
802.11b	8.36	8.63	96.93%	0.14
802.11g	1.39	1.64	84.56%	0.73
802.11n-20 MHz	1.30	1.55	83.68%	0.77
802.11n-40 MHz	0.65	0.90	71.84%	1.44
802.11ax-20 MHz	1.19	1.45	82.19%	0.85
802.11ax-40 MHz	0.63	0.88	71.18%	1.48

Peak Power Test Data**802.11b Mode:**

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.59	90.99	30	1000	Pass
Middle	19.12	81.66			Pass
High	18.90	77.62			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.09	161.81	30	1000	Pass
Middle	23.27	212.32			Pass
High	22.17	164.82			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.83	152.41	30	1000	Pass
Middle	22.76	188.80			Pass
High	21.90	154.88			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.37	137.09	30	1000	Pass
Middle	22.74	187.93			Pass
High	21.31	135.21			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.00	158.49	30	1000	Pass
Middle	22.88	194.09			Pass
High	21.51	141.58			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.09	128.53	30	1000	Pass
Middle	22.82	191.43			Pass
High	21.15	130.32			Pass

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.66	46.34	30	1000	Pass
Middle	16.69	46.67			Pass
High	16.61	45.81			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.81	47.97	30	1000	Pass
Middle	16.57	45.39			Pass
High	16.46	44.26			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.21	41.78	30	1000	Pass
Middle	16.64	46.13			Pass
High	16.28	42.46			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.67	36.90	30	1000	Pass
Middle	16.87	48.64			Pass
High	16.65	46.24			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.98	39.63	30	1000	Pass
Middle	16.64	46.13			Pass
High	16.53	44.98			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.82	38.19	30	1000	Pass
Middle	16.59	45.60			Pass
High	16.83	48.19			Pass

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

802.11b Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	23.53	225.42	36	4	Pass
Middle	23.06	202.30			Pass
High	22.84	192.31			Pass

802.11g Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	26.03	400.87	36	4	Pass
Middle	27.21	526.02			Pass
High	26.11	408.32			Pass

802.11n-20 MHz Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	25.77	377.57	36	4	Pass
Middle	26.70	467.74			Pass
High	25.84	383.71			Pass

802.11n-40 MHz Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	25.31	339.63	36	4	Pass
Middle	26.68	465.59			Pass
High	25.25	334.97			Pass

802.11ax-20 MHz(SU) Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	25.94	392.64	36	4	Pass
Middle	26.82	480.84			Pass
High	25.45	350.75			Pass

802.11ax-40 MHz(SU) Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	25.03	318.42	36	4	Pass
Middle	26.76	474.24			Pass
High	25.09	322.85			Pass

A.2 Occupied Bandwidth

Test Data

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	8.400000	12.696000	≥500
Middle	8.400000	12.704000	≥500
High	8.400000	12.702000	≥500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	16.400000	17.647000	≥500
Middle	16.400000	17.339000	≥500
High	16.400000	17.762000	≥500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	17.600000	18.659000	≥500
Middle	17.600000	18.157000	≥500
High	17.600000	18.770000	≥500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	36.600000	36.555000	≥500
Middle	36.400000	36.616000	≥500
High	36.200000	36.728000	≥500

802.11ax-20 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	19.100000	19.016000	≥500
Middle	19.000000	19.031000	≥500
High	19.000000	19.187000	≥500

802.11ax-40 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	38.000000	37.756000	≥500
Middle	38.000000	37.871000	≥500
High	38.000000	37.845000	≥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



802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



802.11ax-20 MHz(SU) HIGH CHANNEL



802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) 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



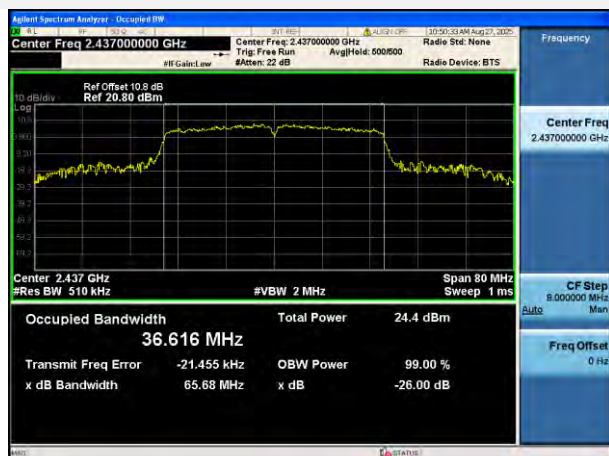
802.11n-20 MHz HIGH CHANNEL



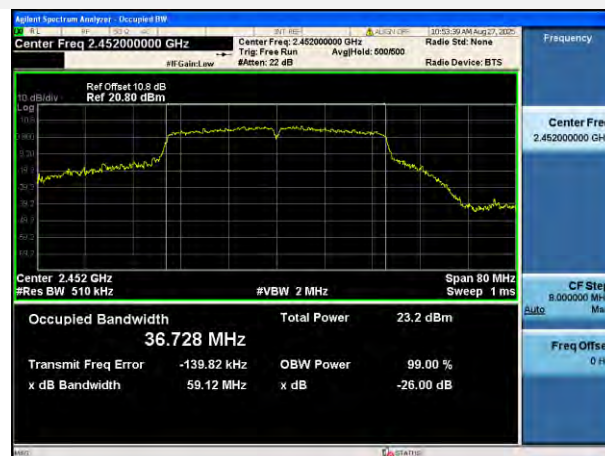
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



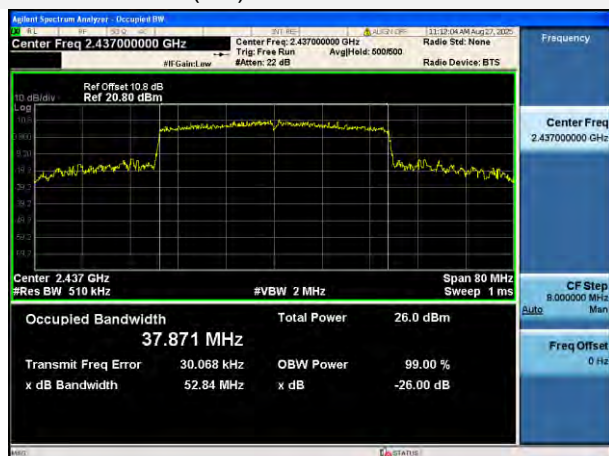
802.11ax-20 MHz(SU) HIGH CHANNEL



802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) HIGH CHANNEL



A.3 Conducted Spurious Emissions

Test Data

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.55	7.42	-12.58	Pass
Middle	-36.96	8.36	-11.64	Pass
High	-36.01	7.28	-12.72	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.65	6.45	-13.55	Pass
Middle	-36.33	7.96	-12.04	Pass
High	-36.18	6.94	-13.06	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.44	6.35	-13.65	Pass
Middle	-36.51	7.42	-12.58	Pass
High	-36.59	6.85	-13.15	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.78	2.55	-17.45	Pass
Middle	-36.64	4.74	-15.26	Pass
High	-36.61	3.70	-16.30	Pass

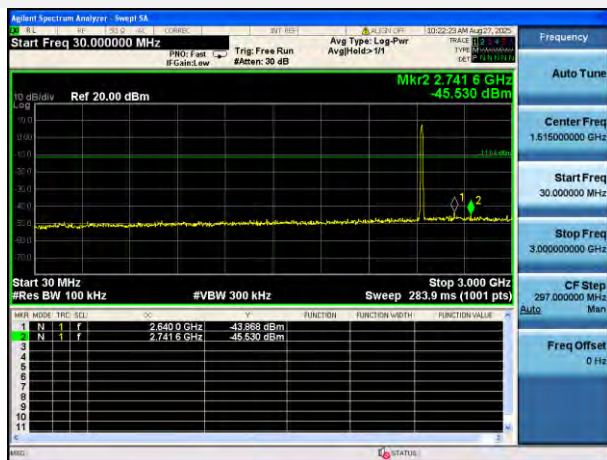
802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-35.59	6.15	-13.85	Pass
Middle	-36.25	6.59	-13.41	Pass
High	-36.56	6.83	-13.17	Pass

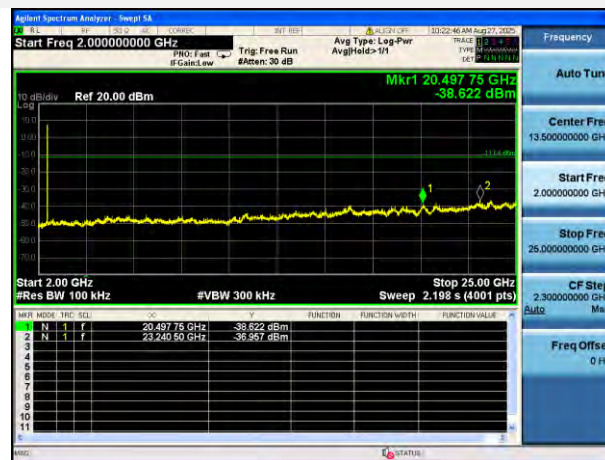
802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.29	2.49	-17.51	Pass
Middle	-36.54	4.75	-15.25	Pass
High	-36.76	3.66	-16.34	Pass

802.11b MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



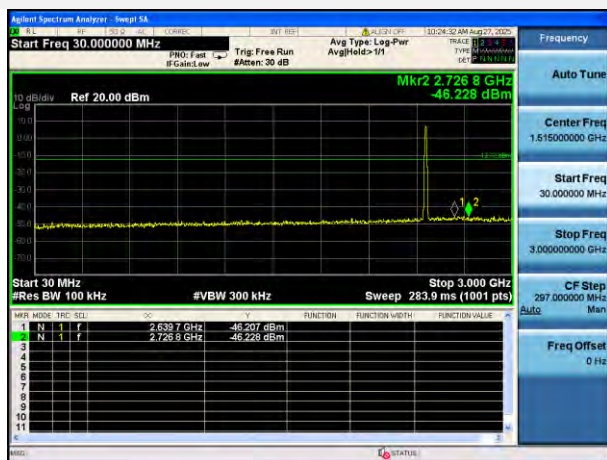
802.11b MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



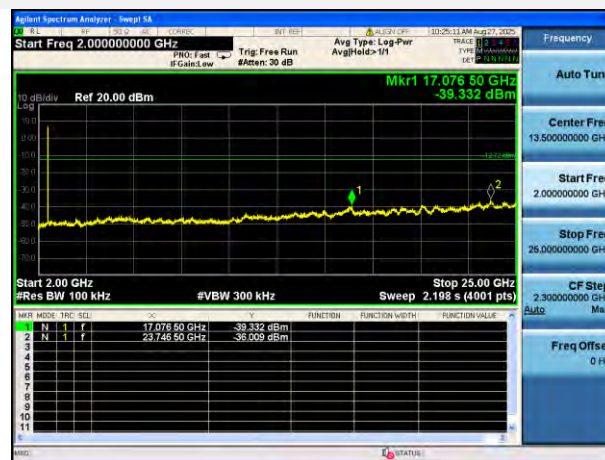
802.11b HIGH CHANNEL CARRIER LEVEL



802.11b HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11b HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



Signal Spectrum Analyzer - Setup 58

Marker 1 2.413300000000 GHz

Ref 20.00 dBm

Center 2.41200 GHz

Res BW 100 kHz

Span 30.00 MHz

Sweep 2.880 ms (601 pts)

VBW 300 kHz

Mkr1 2.413 30 GHz

6.454 dBm

Next Peak

Next Pk Right

Next Pk Left

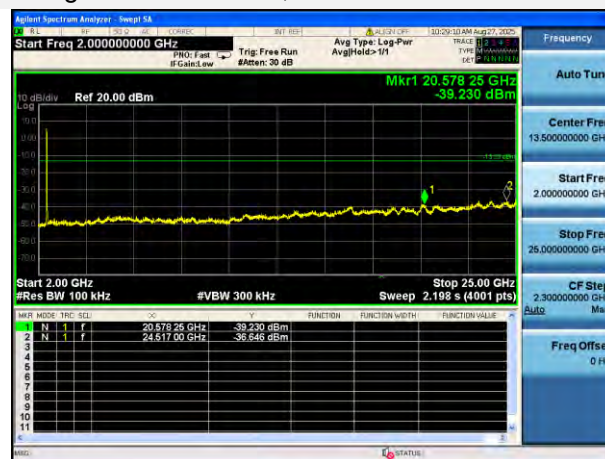
Marker Delta

Mkr--CF

Mkr--Ref Lvl

More

1 of 2

[illegible]

Keysight Spectrum Analyzer - Image 58

Marker 1 2.438250000000 GHz

Ref 20.00 dBm

Mkr1 2.438 25 GHz
7.963 dBm

Center 2.4370 GHz
#Res BW 100 kHz

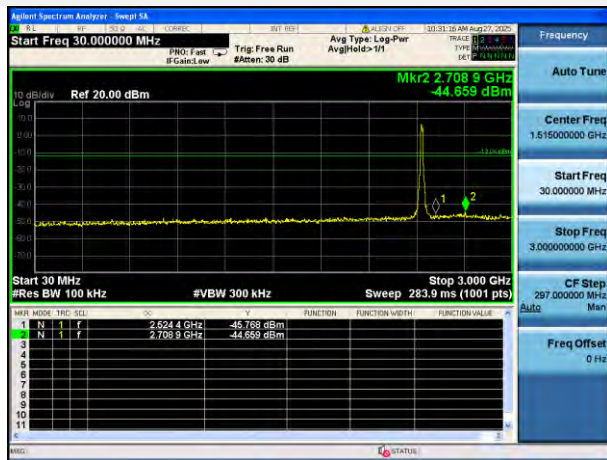
#VBW 300 kHz

Span 30.00 MHz
Sweep 2.880 ms (601 pts)

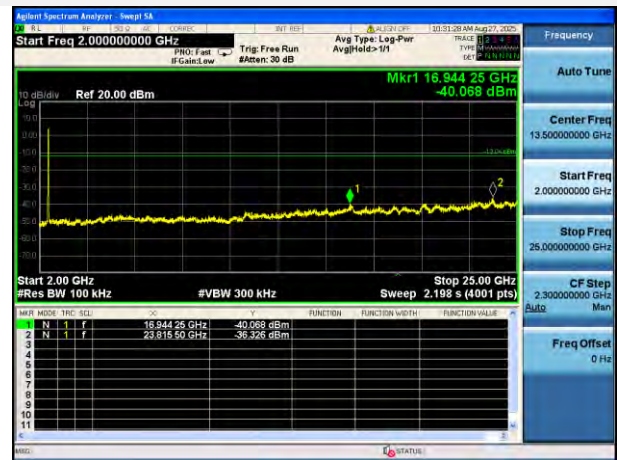
Marker	MHz	TH	SL	DB	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	2438.25	1	1	2.438 25 GHz	7.963 dBm			

Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr--CF
Mkr--Ref Lvl
More
1 of 2

802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



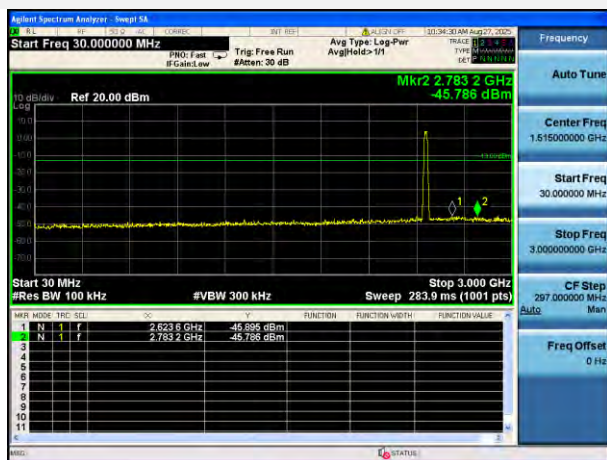
802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



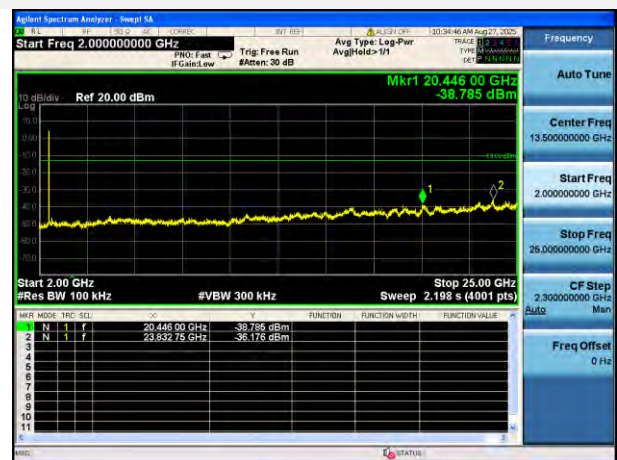
802.11g HIGH CHANNEL CARRIER LEVEL



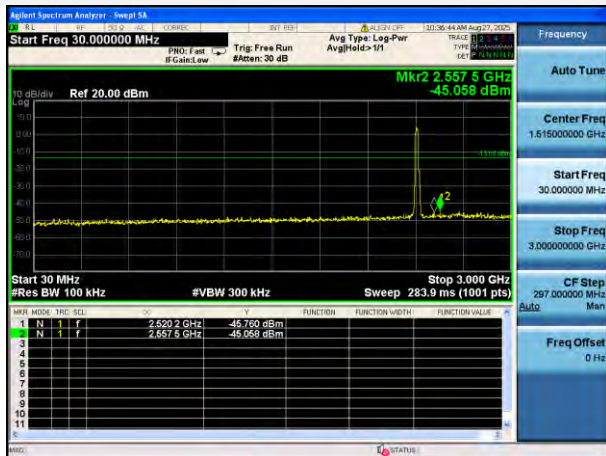
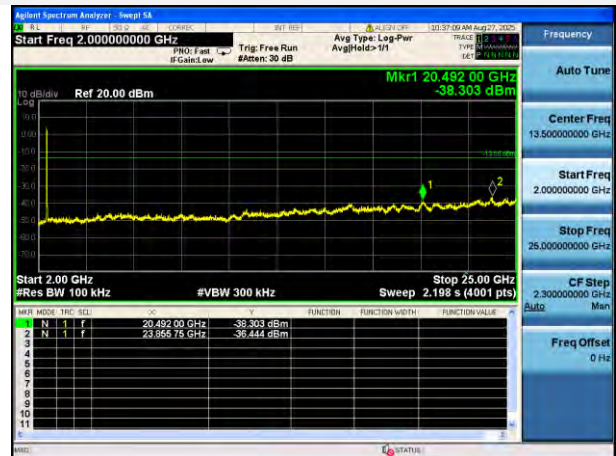
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



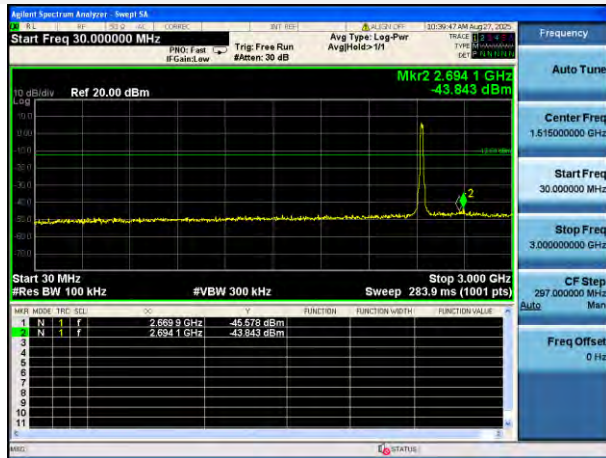
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

802.11n-20 MHz LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11n-20 MHz LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

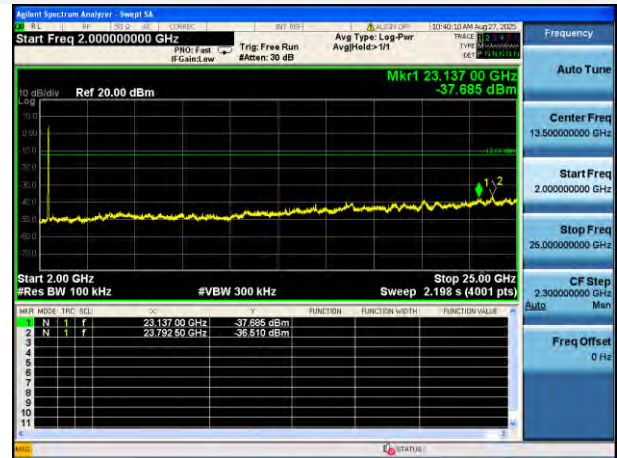
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



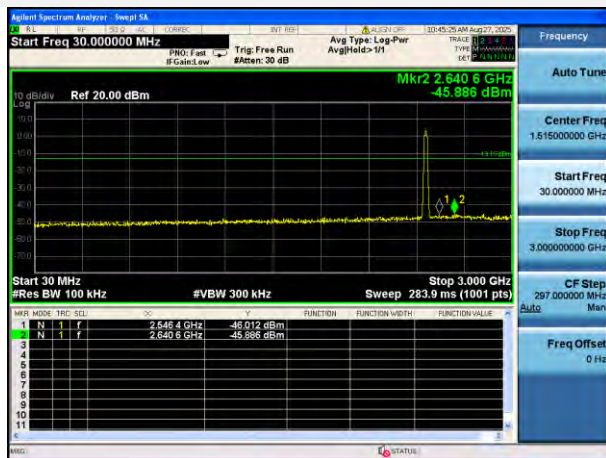
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



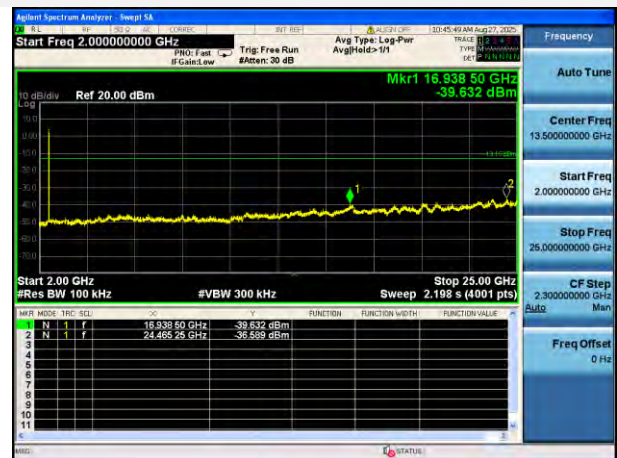
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



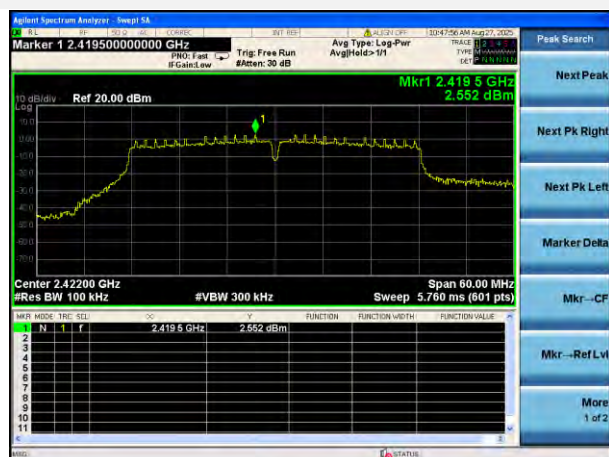
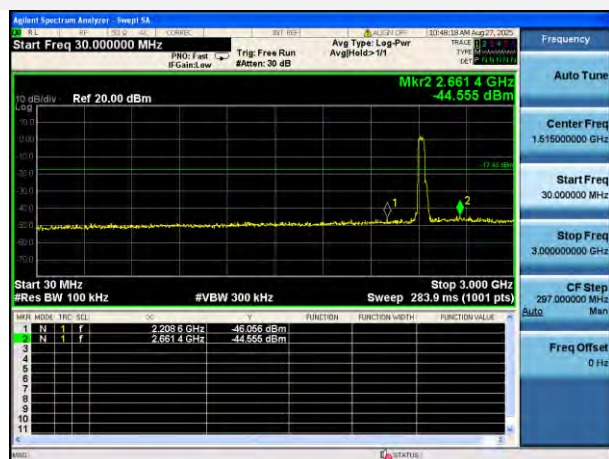
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



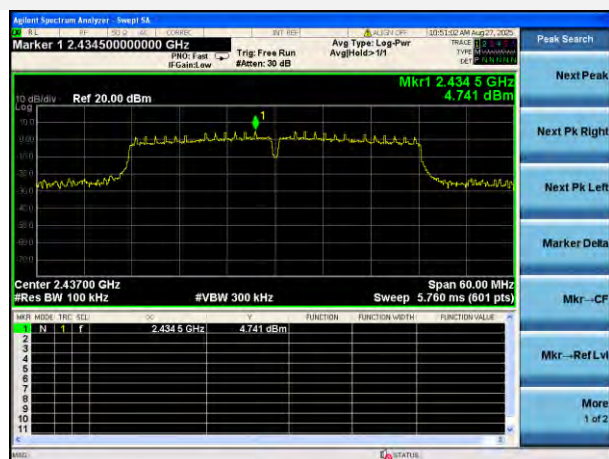
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



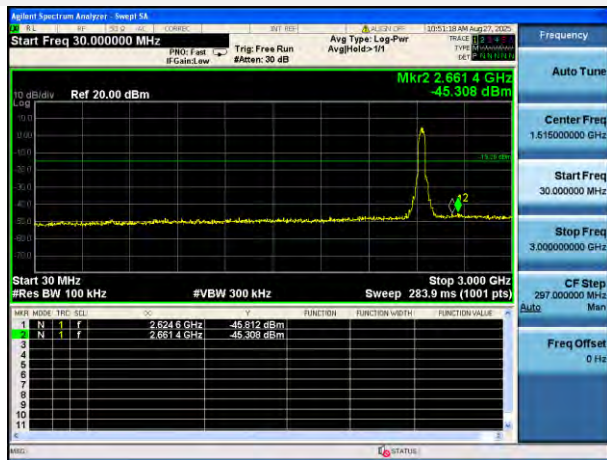
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

802.11n-40 MHz LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11n-40 MHz LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

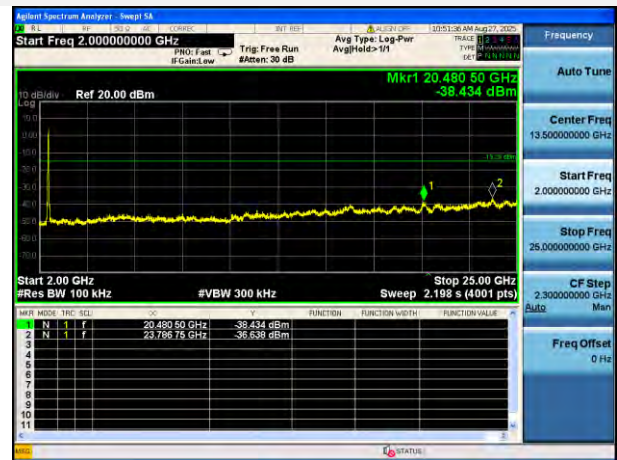
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



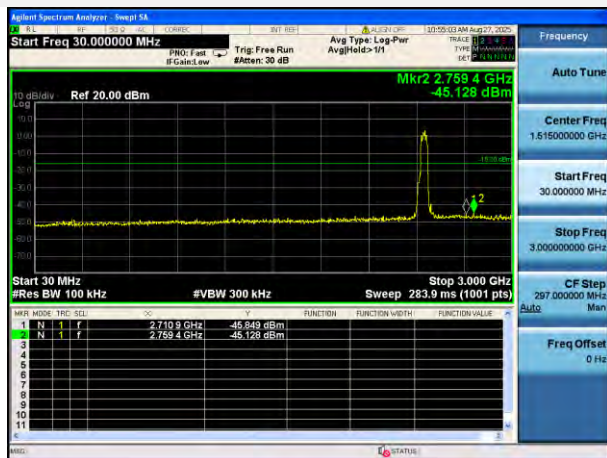
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



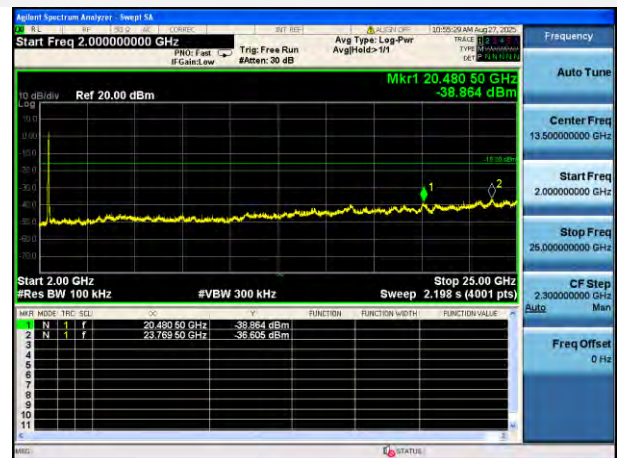
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



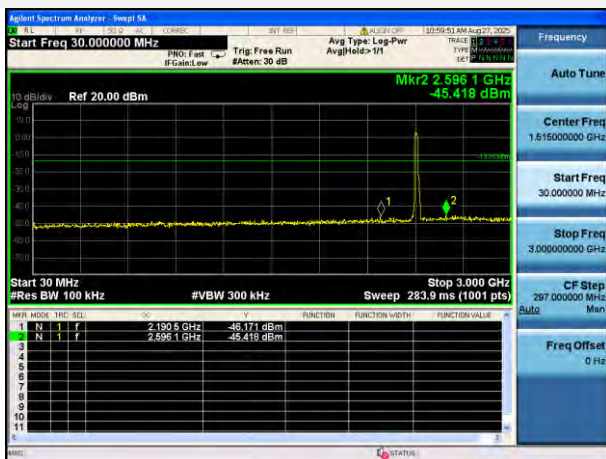
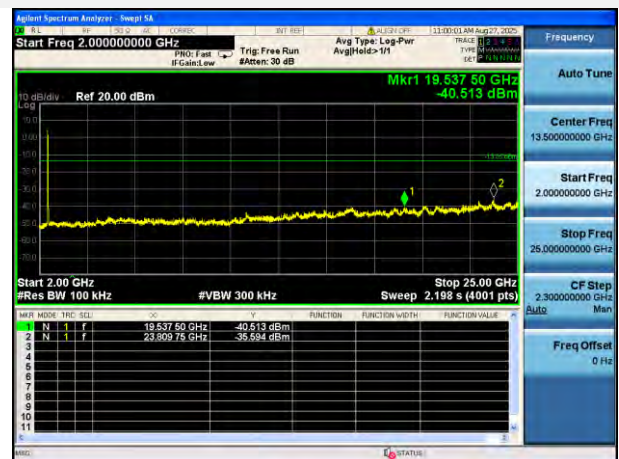
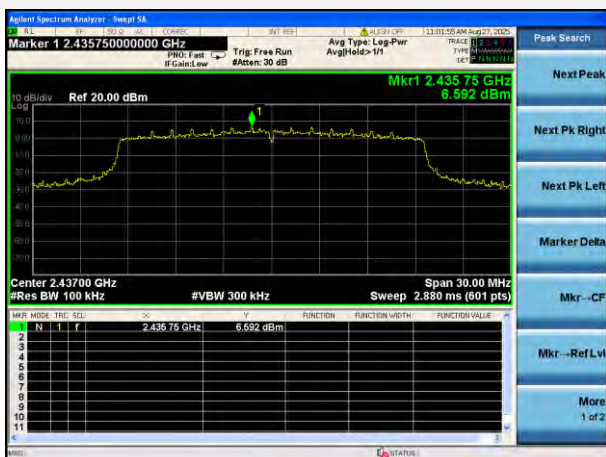
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



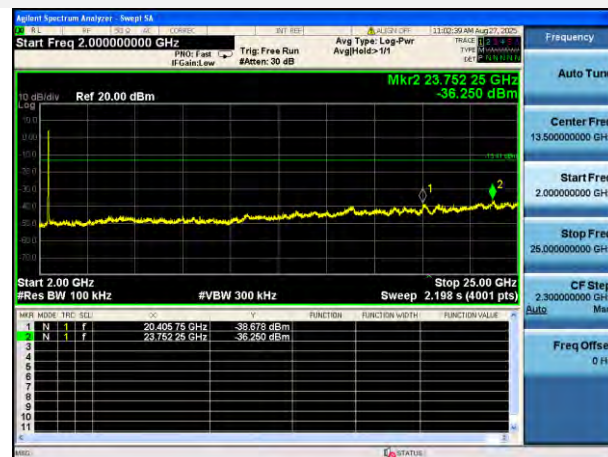
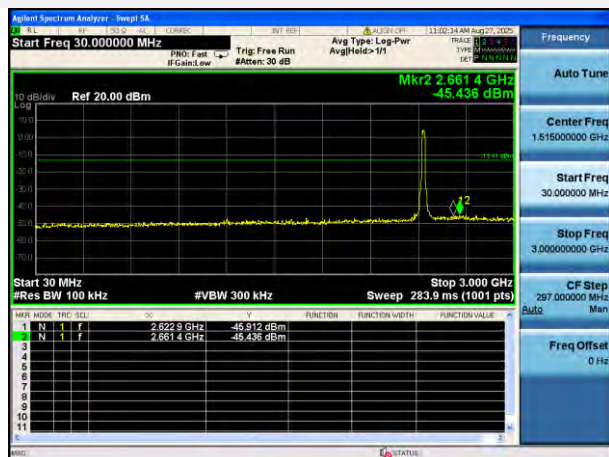
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



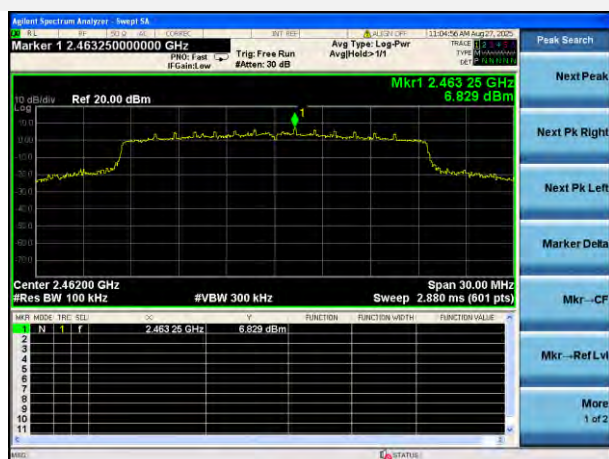
802.11ax-20 MHz(SU) LOW CHANNEL CARRIER LEVEL

802.11ax-20 MHz(SU) LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11ax-20 MHz(SU) LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz802.11ax-20 MHz(SU) MIDDLE CHANNEL CARRIER
LEVEL

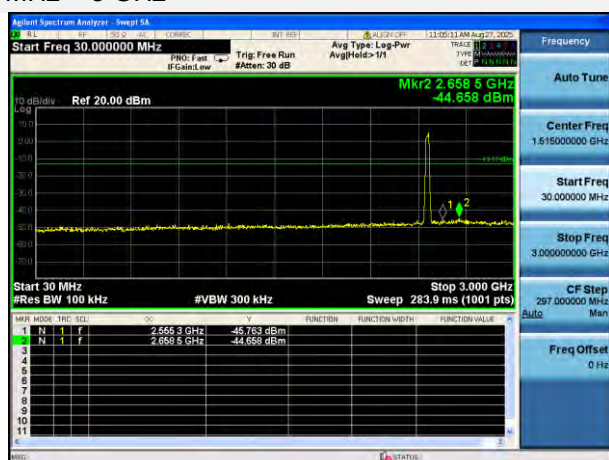
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



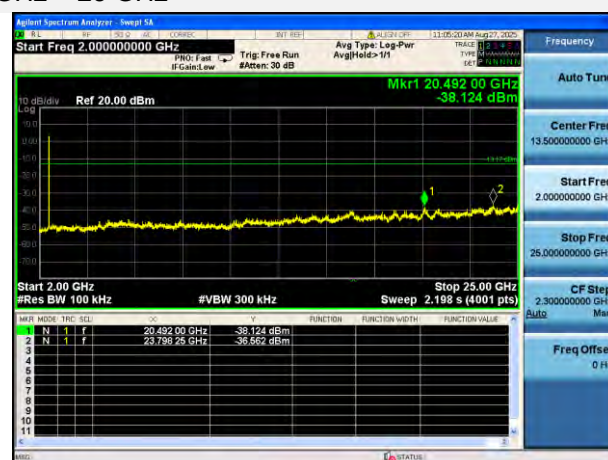
802.11ax-20 MHz(SU) HIGH CHANNEL CARRIER LEVEL



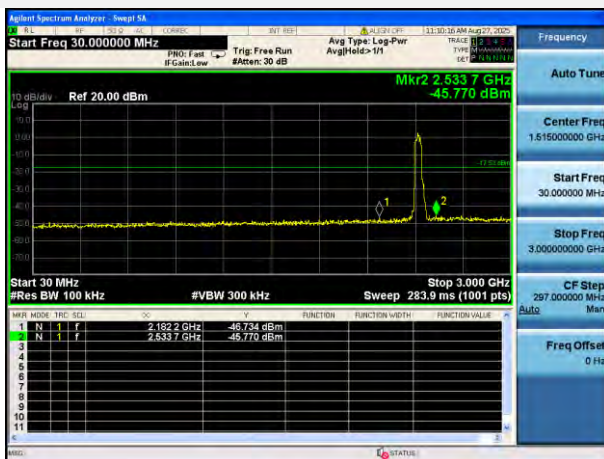
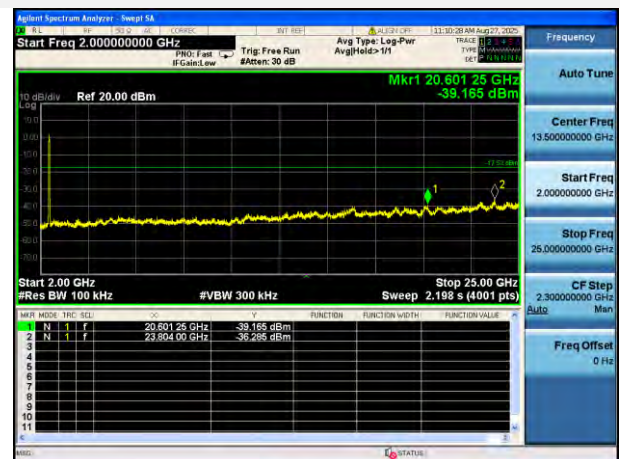
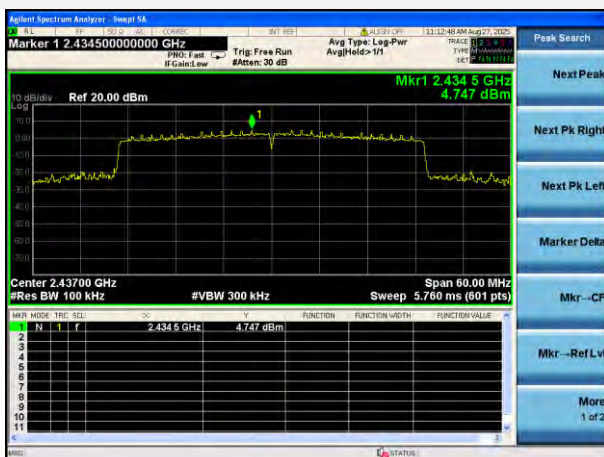
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



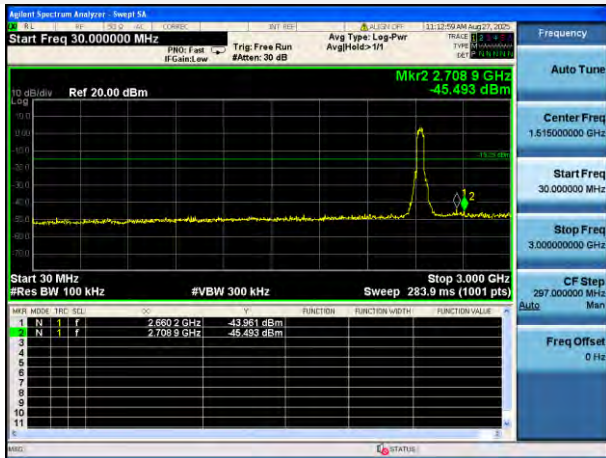
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



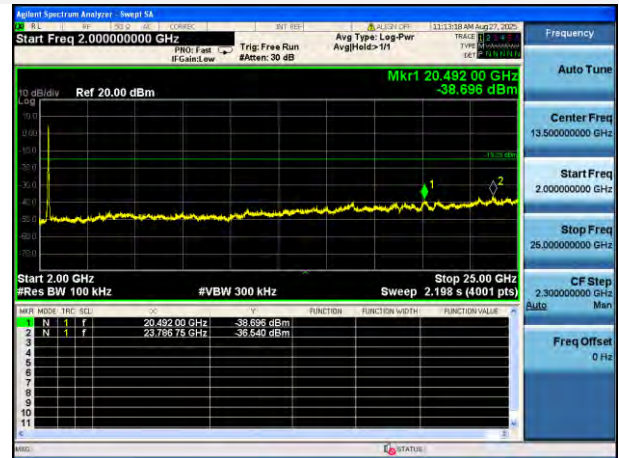
802.11ax-40 MHz(SU) LOW CHANNEL CARRIER LEVEL

802.11ax-40 MHz(SU) LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11ax-40 MHz(SU) LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz802.11ax-40 MHz(SU) MIDDLE CHANNEL CARRIER
LEVEL

802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



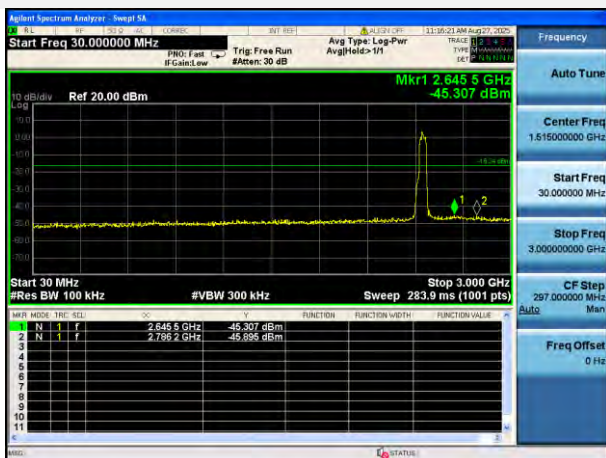
802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



802.11ax-40 MHz(SU) HIGH CHANNEL CARRIER LEVEL



802.11ax-40 MHz(SU) HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11ax-40 MHz(SU) HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



A.4 Band Edge (Authorized-band band-edge)

Note: The 99% OBW of the fundamental emission is without 2 MHz of the authorized band.

Test Data

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-42.58	7.42	-12.58	Pass
High Channel	-48.55	7.28	-12.72	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-37.21	6.45	-13.55	Pass
High Channel	-46.72	6.94	-13.06	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-37.60	6.35	-13.65	Pass
High Channel	-46.86	6.85	-13.15	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-32.42	2.55	-17.45	Pass
High Channel	-41.54	3.70	-16.30	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-39.10	6.15	-13.85	Pass
High Channel	-45.16	6.83	-13.17	Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-31.91	2.49	-17.51	Pass
High Channel	-42.16	3.66	-16.34	Pass

Test Plots

802.11b LOW CHANNEL, CARRIER LEVEL



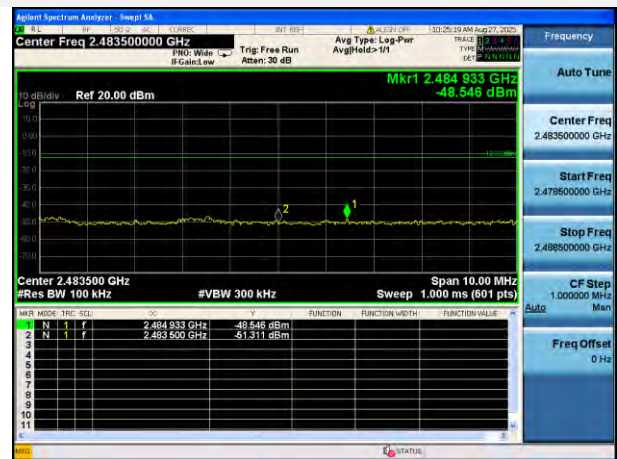
802.11b LOW CHANNEL, BAND EDGE



802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



802.11g LOW CHANNEL, CARRIER LEVEL



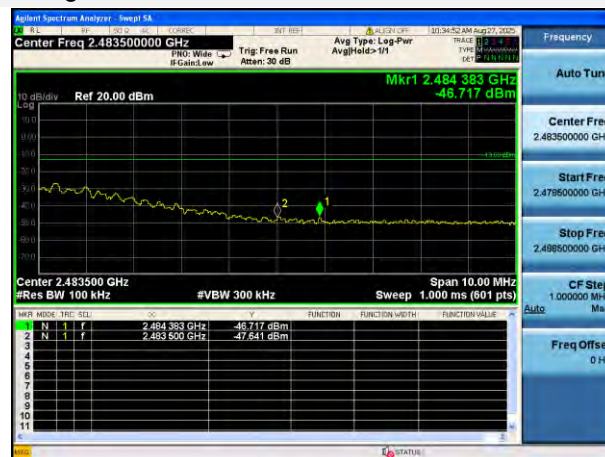
802.11g LOW CHANNEL, BAND EDGE



802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



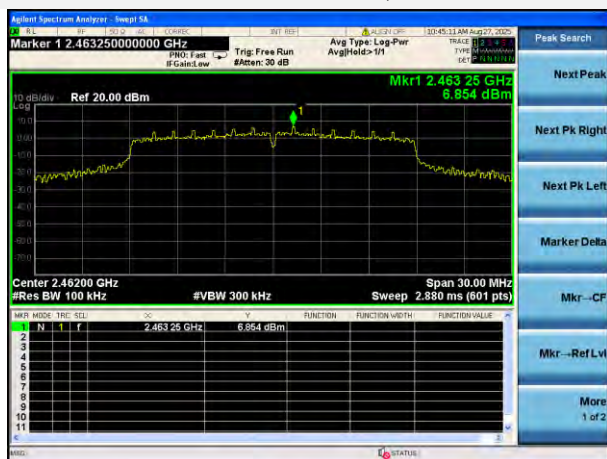
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



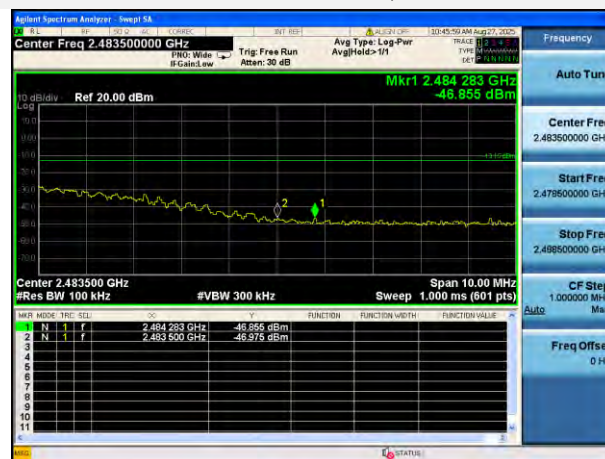
802.11n-20 MHz LOW CHANNEL, BAND EDGE



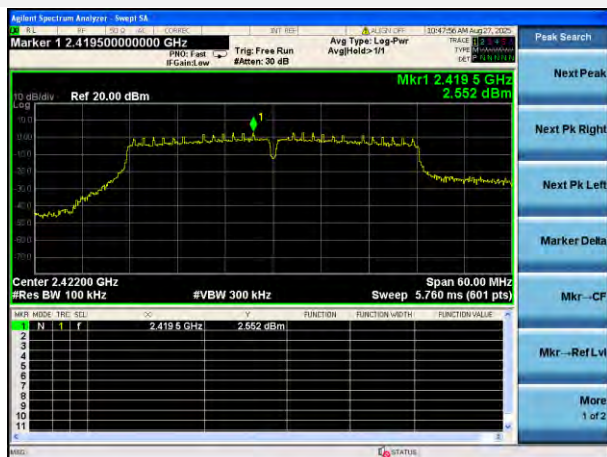
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



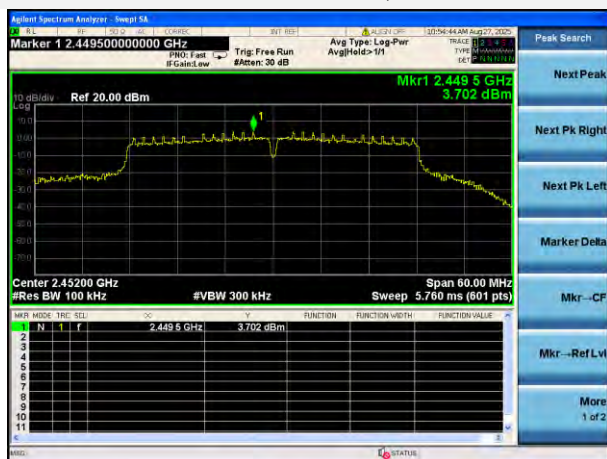
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



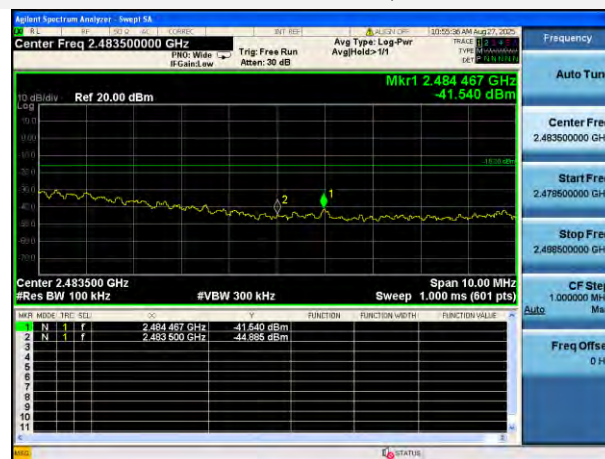
802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



802.11ax-20 MHz(SU) LOW CHANNEL, CARRIER LEVEL



802.11ax-20 MHz(SU) LOW CHANNEL, BAND EDGE



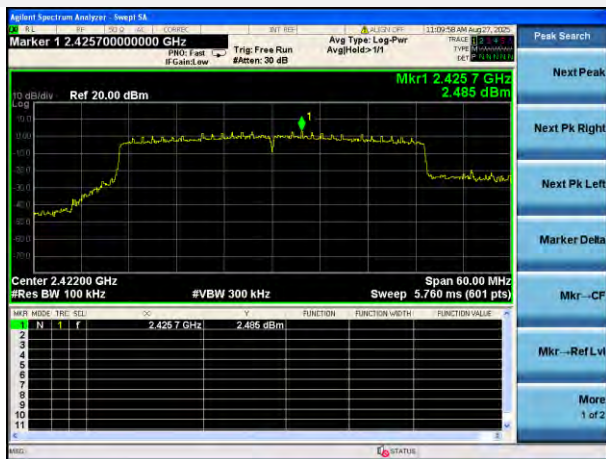
802.11ax-20 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



802.11ax-20 MHz(SU) HIGH CHANNEL, BAND EDGE



802.11ax-40 MHz(SU) LOW CHANNEL, CARRIER LEVEL



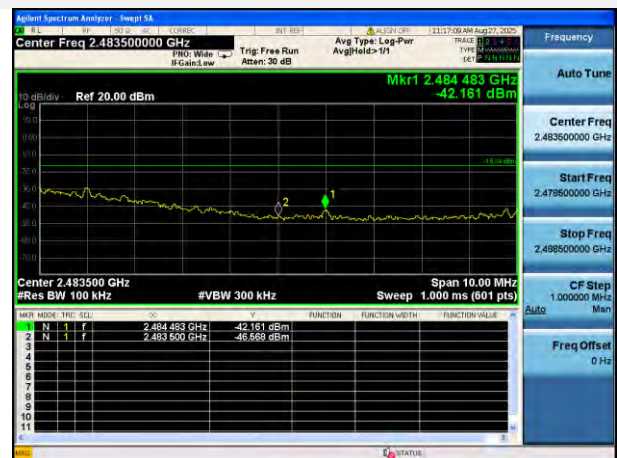
802.11ax-40 MHz(SU) LOW CHANNEL, BAND EDGE



802.11ax-40 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



802.11ax-40 MHz(SU) HIGH CHANNEL, BAND EDGE



A.5 Conducted Emissions

Note¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

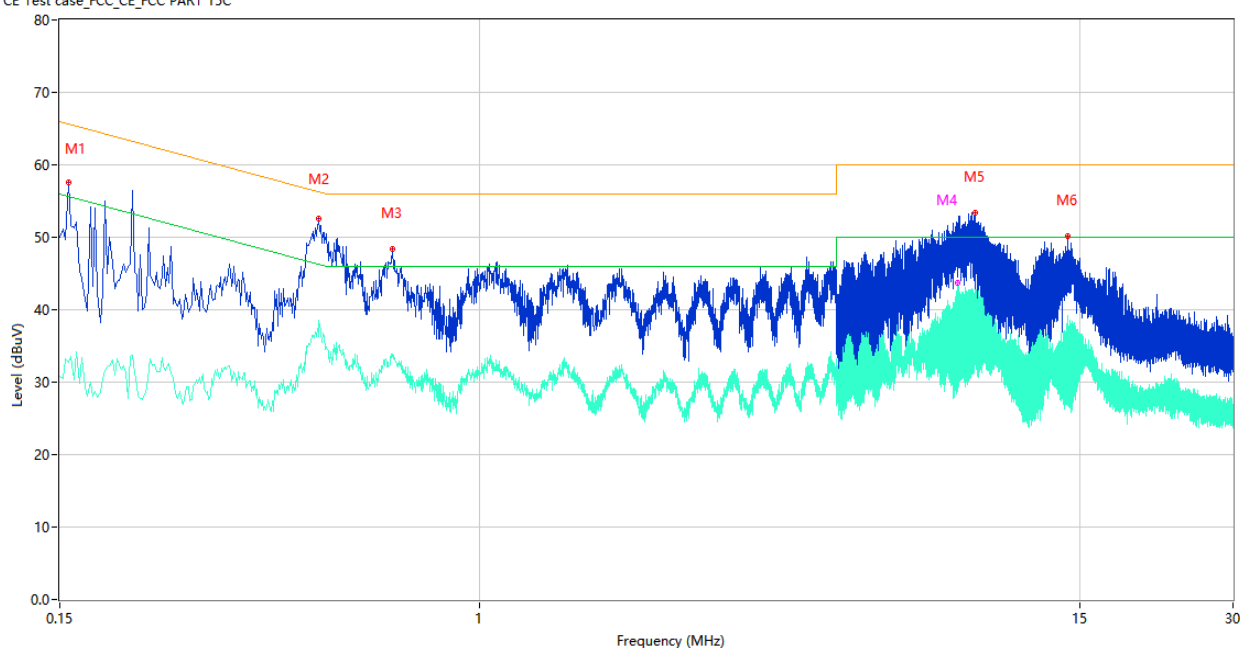
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PHASE L

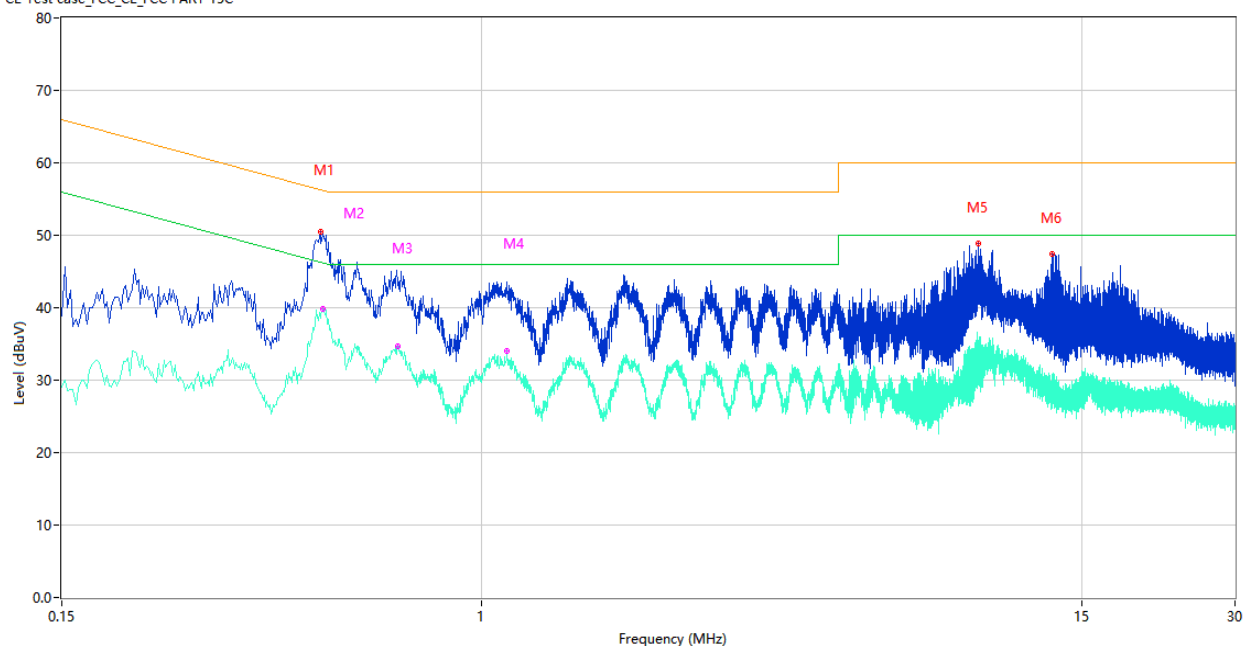
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.156	57.60	9.86	65.67	8.07	Peak	L	Pass
1**	0.156	32.80	9.86	55.67	22.87	AV	L	Pass
2	0.484	52.60	10.06	56.27	3.67	Peak	L	Pass
2**	0.484	38.50	10.06	46.27	7.77	AV	L	Pass
3	0.674	48.45	10.48	56.00	7.55	Peak	L	Pass
3**	0.674	33.80	10.48	46.00	12.20	AV	L	Pass
4	8.650	51.00	10.43	60.00	9.00	Peak	L	Pass
4**	8.650	43.75	10.43	50.00	6.25	AV	L	Pass
5	9.362	53.37	10.36	60.00	6.63	Peak	L	Pass
5**	9.362	40.95	10.36	50.00	9.05	AV	L	Pass
6	14.238	50.23	10.66	60.00	9.77	Peak	L	Pass
6**	14.238	39.19	10.66	50.00	10.81	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.482	50.50	10.06	56.30	5.80	Peak	N	Pass
1**	0.482	38.60	10.06	46.30	7.70	AV	N	Pass
2	0.488	50.10	10.05	56.20	6.10	Peak	N	Pass
2**	0.488	39.89	10.05	46.20	6.31	AV	N	Pass
3	0.684	43.56	10.57	56.00	12.44	Peak	N	Pass
3**	0.684	34.62	10.57	46.00	11.38	AV	N	Pass
4	1.122	42.82	10.24	56.00	13.18	Peak	N	Pass
4**	1.122	34.07	10.24	46.00	11.93	AV	N	Pass
5	9.418	48.82	10.21	60.00	11.18	Peak	N	Pass
5**	9.418	35.44	10.21	50.00	14.56	AV	N	Pass
6	13.162	47.45	10.77	60.00	12.55	Peak	N	Pass
6**	13.162	30.87	10.77	50.00	19.13	AV	N	Pass

A.6 Radiated Emission

Note¹: The symbol of “--” in the table which means not application.

Note²: For the test data above 1 GHz, According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

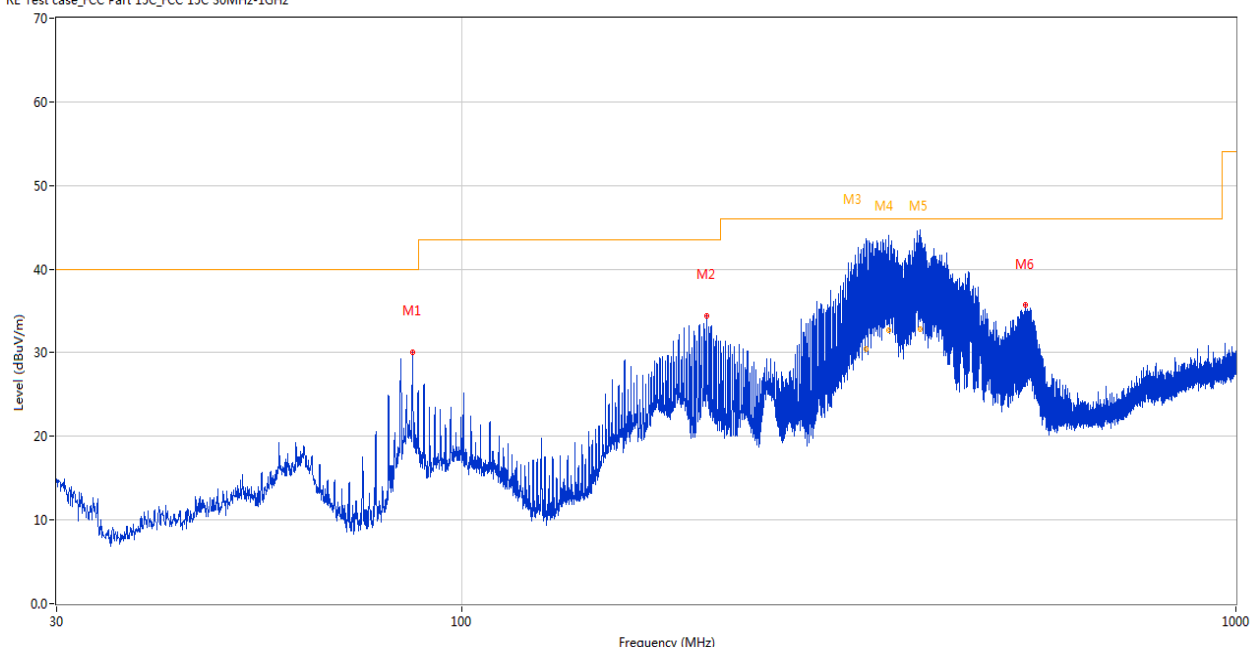
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Test Data and Plots

30 MHz to 1 GHz, ANT H

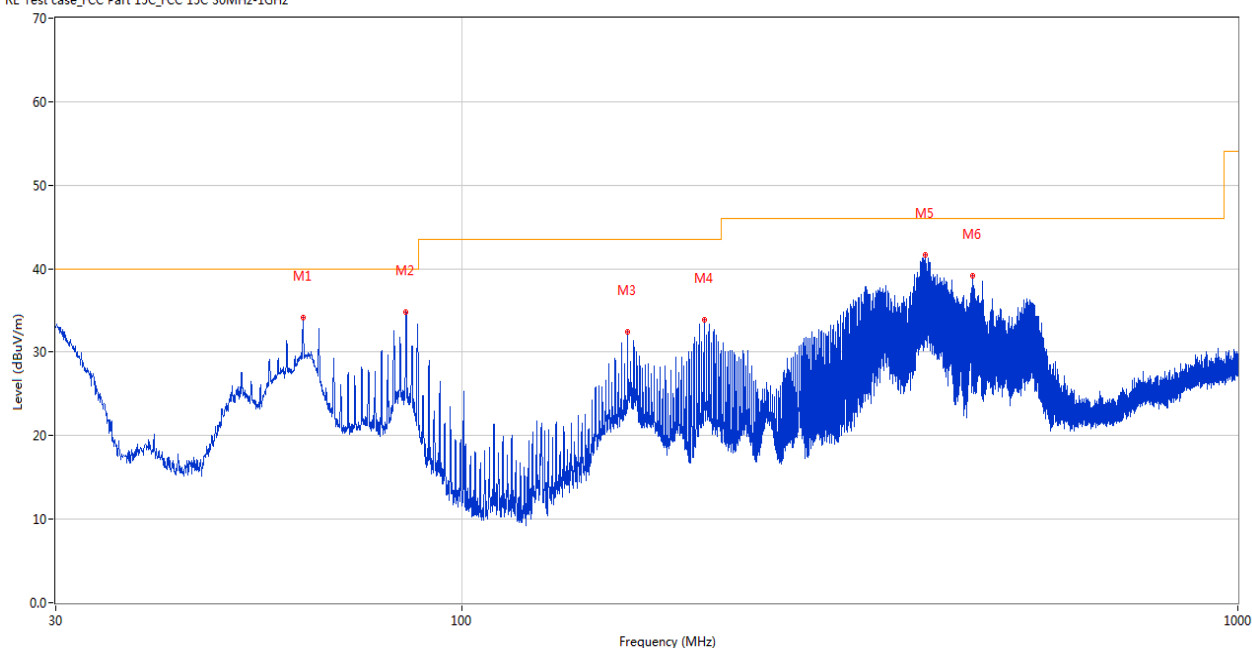
RE Test case_FCC Part 15C_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	86.503	30.05	-29.81	40.0	9.95	Peak	5.20	200	Horizontal	Pass
2	207.122	34.42	-26.06	43.5	9.08	Peak	306.80	200	Horizontal	Pass
3	332.834	35.63	-21.98	46.0	10.37	Peak	258.60	104	Horizontal	N/A
3*	332.834	30.48	-21.98	46.0	15.52	QP	258.60	104	Horizontal	Pass
4	356.405	36.92	-21.34	46.0	9.08	Peak	270.10	101	Horizontal	N/A
4*	356.405	32.66	-21.34	46.0	13.34	QP	270.10	101	Horizontal	Pass
5	390.598	37.70	-20.45	46.0	8.30	Peak	249.50	101	Horizontal	N/A
5*	390.598	32.86	-20.45	46.0	13.14	QP	249.50	101	Horizontal	Pass
6	535.273	35.66	-17.35	46.0	10.34	Peak	231.60	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	62.495	34.16	-26.64	40.0	5.84	Peak	258.30	100	Vertical	Pass
2	84.805	34.83	-30.38	40.0	5.17	Peak	284.60	100	Vertical	Pass
3	163.714	32.49	-28.55	43.5	11.01	Peak	323.70	100	Vertical	Pass
4	205.376	33.86	-26.17	43.5	9.64	Peak	21.70	100	Vertical	Pass
5	395.787	41.68	-20.38	46.0	4.32	Peak	39.20	100	Vertical	Pass
6	455.394	39.17	-19.53	46.0	6.83	Peak	164.50	100	Vertical	Pass

Note ¹: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note ²: The spurious above 18G is noise only, do not show on the report.

1 GHz to 18 GHz, ANT H 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.656	44.59	74.0	29.41	Peak	51.00	300	Horizontal	Pass
1**	1329.656	36.77	54.0	17.23	AV	51.00	300	Horizontal	Pass
2	2996.493	51.98	74.0	22.02	Peak	94.00	400	Horizontal	Pass
2**	2996.493	43.85	54.0	10.15	AV	94.00	400	Horizontal	Pass
3	4933.047	52.72	74.0	21.28	Peak	110.00	200	Horizontal	Pass
3**	4933.047	40.75	54.0	13.25	AV	110.00	200	Horizontal	Pass
4	6807.347	53.33	74.0	20.67	Peak	99.00	100	Horizontal	Pass
4**	6807.347	46.79	54.0	7.21	AV	99.00	100	Horizontal	Pass
5	13414.959	52.87	74.0	21.13	Peak	121.00	100	Horizontal	Pass
5**	13414.959	44.50	54.0	9.50	AV	121.00	100	Horizontal	Pass
6	17430.037	53.30	74.0	20.70	Peak	294.00	100	Horizontal	Pass
6**	17430.037	44.55	54.0	9.45	AV	294.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1334.533	47.42	74.0	26.58	Peak	200.00	300	Vertical	Pass
1**	1334.533	38.03	54.0	15.97	AV	200.00	300	Vertical	Pass
2	2978.512	48.91	74.0	25.09	Peak	232.00	400	Vertical	Pass
2**	2978.512	39.70	54.0	14.30	AV	232.00	400	Vertical	Pass
3	4856.695	51.39	74.0	22.61	Peak	212.00	200	Vertical	Pass
3**	4856.695	42.92	54.0	11.08	AV	212.00	200	Vertical	Pass
4	6607.863	55.58	74.0	18.42	Peak	50.00	200	Vertical	Pass
4**	6607.863	46.84	54.0	7.16	AV	50.00	200	Vertical	Pass
5	13434.773	53.88	74.0	20.12	Peak	292.00	200	Vertical	Pass
5**	13434.773	45.07	54.0	8.93	AV	292.00	200	Vertical	Pass
6	17419.041	55.22	74.0	18.78	Peak	32.00	200	Vertical	Pass
6**	17419.041	47.32	54.0	6.68	AV	32.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.958	42.53	74.0	31.47	Peak	279.00	400	Horizontal	Pass
1**	1327.958	38.76	54.0	15.24	AV	279.00	400	Horizontal	Pass
2	2996.253	49.64	74.0	24.36	Peak	335.00	200	Horizontal	Pass
2**	2996.253	44.29	54.0	9.71	AV	335.00	200	Horizontal	Pass
3	4933.165	49.52	74.0	24.48	Peak	327.00	200	Horizontal	Pass
3**	4933.165	40.43	54.0	13.57	AV	327.00	200	Horizontal	Pass
4	6805.950	52.90	74.0	21.10	Peak	54.00	300	Horizontal	Pass
4**	6805.950	42.50	54.0	11.50	AV	54.00	300	Horizontal	Pass
5	13413.480	53.98	74.0	20.02	Peak	131.00	100	Horizontal	Pass
5**	13413.480	47.34	54.0	6.66	AV	131.00	100	Horizontal	Pass
6	17427.269	55.06	74.0	18.94	Peak	265.00	300	Horizontal	Pass
6**	17427.269	48.64	54.0	5.36	AV	265.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1334.516	47.66	74.0	26.34	Peak	329.00	300	Vertical	Pass
1**	1334.516	40.35	54.0	13.65	AV	329.00	300	Vertical	Pass
2	2983.442	49.48	74.0	24.52	Peak	247.00	400	Vertical	Pass
2**	2983.442	42.15	54.0	11.85	AV	247.00	400	Vertical	Pass
3	4854.404	51.03	74.0	22.97	Peak	136.00	200	Vertical	Pass
3**	4854.404	38.45	54.0	15.55	AV	136.00	200	Vertical	Pass
4	6609.886	51.64	74.0	22.36	Peak	92.00	300	Vertical	Pass
4**	6609.886	44.83	54.0	9.17	AV	92.00	300	Vertical	Pass
5	13432.083	52.57	74.0	21.43	Peak	38.00	200	Vertical	Pass
5**	13432.083	47.40	54.0	6.60	AV	38.00	200	Vertical	Pass
6	17419.056	56.28	74.0	17.72	Peak	256.00	200	Vertical	Pass
6**	17419.056	48.59	54.0	5.41	AV	256.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.988	44.22	74.0	29.78	Peak	195.00	400	Horizontal	Pass
1**	1332.988	35.87	54.0	18.13	AV	195.00	400	Horizontal	Pass
2	3000.418	47.44	74.0	26.56	Peak	108.00	300	Horizontal	Pass
2**	3000.418	43.72	54.0	10.28	AV	108.00	300	Horizontal	Pass
3	4931.013	51.32	74.0	22.68	Peak	17.00	200	Horizontal	Pass
3**	4931.013	44.20	54.0	9.80	AV	17.00	200	Horizontal	Pass
4	6809.871	55.80	74.0	18.20	Peak	325.00	300	Horizontal	Pass
4**	6809.871	43.36	54.0	10.64	AV	325.00	300	Horizontal	Pass
5	13414.874	55.19	74.0	18.81	Peak	336.00	100	Horizontal	Pass
5**	13414.874	45.70	54.0	8.30	AV	336.00	100	Horizontal	Pass
6	17423.469	56.14	74.0	17.86	Peak	271.00	200	Horizontal	Pass
6**	17423.469	45.93	54.0	8.07	AV	271.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.038	47.10	74.0	26.90	Peak	257.00	100	Vertical	Pass
1**	1330.038	34.99	54.0	19.01	AV	257.00	100	Vertical	Pass
2	2982.770	52.25	74.0	21.75	Peak	69.00	100	Vertical	Pass
2**	2982.770	42.08	54.0	11.92	AV	69.00	100	Vertical	Pass
3	4858.076	49.74	74.0	24.26	Peak	64.00	200	Vertical	Pass
3**	4858.076	40.97	54.0	13.03	AV	64.00	200	Vertical	Pass
4	6611.057	54.41	74.0	19.59	Peak	91.00	100	Vertical	Pass
4**	6611.057	42.70	54.0	11.30	AV	91.00	100	Vertical	Pass
5	13431.050	53.43	74.0	20.57	Peak	353.00	400	Vertical	Pass
5**	13431.050	47.05	54.0	6.95	AV	353.00	400	Vertical	Pass
6	17415.407	57.13	74.0	16.87	Peak	277.00	100	Vertical	Pass
6**	17415.407	50.04	54.0	3.96	AV	277.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.275	47.53	74.0	26.47	Peak	269.00	300	Horizontal	Pass
1**	1330.275	34.09	54.0	19.91	AV	269.00	300	Horizontal	Pass
2	2997.808	50.27	74.0	23.73	Peak	314.00	100	Horizontal	Pass
2**	2997.808	43.01	54.0	10.99	AV	314.00	100	Horizontal	Pass
3	4938.121	52.03	74.0	21.97	Peak	250.00	200	Horizontal	Pass
3**	4938.121	40.69	54.0	13.31	AV	250.00	200	Horizontal	Pass
4	6808.994	53.67	74.0	20.33	Peak	154.00	300	Horizontal	Pass
4**	6808.994	45.95	54.0	8.05	AV	154.00	300	Horizontal	Pass
5	13411.965	53.86	74.0	20.14	Peak	253.00	300	Horizontal	Pass
5**	13411.965	44.48	54.0	9.52	AV	253.00	300	Horizontal	Pass
6	17423.664	58.93	74.0	15.07	Peak	213.00	200	Horizontal	Pass
6**	17423.664	49.31	54.0	4.69	AV	213.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.276	45.42	74.0	28.58	Peak	203.00	100	Vertical	Pass
1**	1330.276	39.24	54.0	14.76	AV	203.00	100	Vertical	Pass
2	2983.087	47.59	74.0	26.41	Peak	312.00	200	Vertical	Pass
2**	2983.087	40.18	54.0	13.82	AV	312.00	200	Vertical	Pass
3	4850.564	47.14	74.0	26.86	Peak	328.00	200	Vertical	Pass
3**	4850.564	42.54	54.0	11.46	AV	328.00	200	Vertical	Pass
4	6608.021	56.94	74.0	17.06	Peak	223.00	400	Vertical	Pass
4**	6608.021	42.16	54.0	11.84	AV	223.00	400	Vertical	Pass
5	13434.180	54.60	74.0	19.40	Peak	173.00	400	Vertical	Pass
5**	13434.180	47.72	54.0	6.28	AV	173.00	400	Vertical	Pass
6	17414.333	57.28	74.0	16.72	Peak	69.00	400	Vertical	Pass
6**	17414.333	49.29	54.0	4.71	AV	69.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Middle Channel

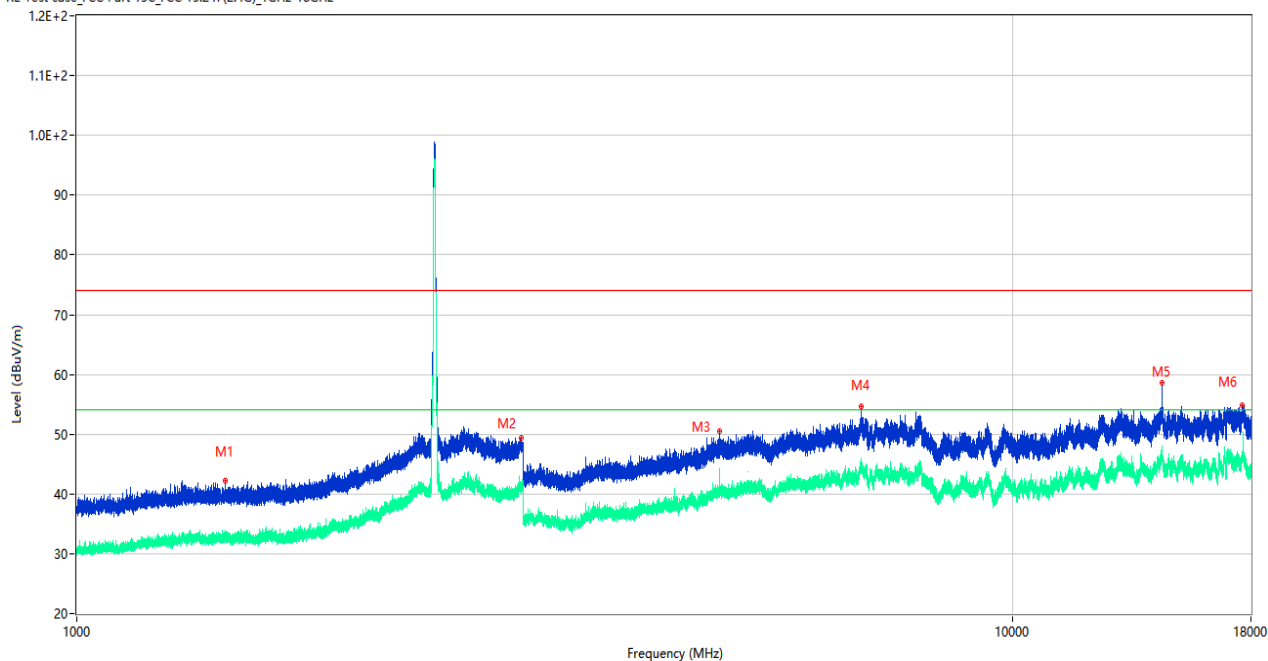
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.176	46.53	74.0	27.47	Peak	190.00	300	Horizontal	Pass
1**	1328.176	38.65	54.0	15.35	AV	190.00	300	Horizontal	Pass
2	2999.281	51.22	74.0	22.78	Peak	88.00	300	Horizontal	Pass
2**	2999.281	40.75	54.0	13.25	AV	88.00	300	Horizontal	Pass
3	4938.265	53.01	74.0	20.99	Peak	37.00	200	Horizontal	Pass
3**	4938.265	42.50	54.0	11.50	AV	37.00	200	Horizontal	Pass
4	6808.242	53.34	74.0	20.66	Peak	200.00	100	Horizontal	Pass
4**	6808.242	47.28	54.0	6.72	AV	200.00	100	Horizontal	Pass
5	13408.785	55.07	74.0	18.93	Peak	334.00	100	Horizontal	Pass
5**	13408.785	49.32	54.0	4.68	AV	334.00	100	Horizontal	Pass
6	17427.811	56.96	74.0	17.04	Peak	337.00	300	Horizontal	Pass
6**	17427.811	49.09	54.0	4.91	AV	337.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.584	45.71	74.0	28.29	Peak	213.00	100	Vertical	Pass
1**	1331.584	36.74	54.0	17.26	AV	213.00	100	Vertical	Pass
2	2983.859	48.59	74.0	25.41	Peak	218.00	300	Vertical	Pass
2**	2983.859	38.87	54.0	15.13	AV	218.00	300	Vertical	Pass
3	4851.144	49.41	74.0	24.59	Peak	99.00	200	Vertical	Pass
3**	4851.144	39.14	54.0	14.86	AV	99.00	200	Vertical	Pass
4	6608.510	53.39	74.0	20.61	Peak	240.00	200	Vertical	Pass
4**	6608.510	44.32	54.0	9.68	AV	240.00	200	Vertical	Pass
5	13435.238	57.89	74.0	16.11	Peak	228.00	100	Vertical	Pass
5**	13435.238	46.97	54.0	7.03	AV	228.00	100	Vertical	Pass
6	17413.879	54.98	74.0	19.02	Peak	197.00	200	Vertical	Pass
6**	17413.879	46.42	54.0	7.58	AV	197.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g High Channel

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.574	42.48	74.0	31.52	Peak	133.00	400	Horizontal	Pass
1**	1331.574	37.91	54.0	16.09	AV	133.00	400	Horizontal	Pass
2	2998.401	48.99	74.0	25.01	Peak	331.00	400	Horizontal	Pass
2**	2998.401	42.72	54.0	11.28	AV	331.00	400	Horizontal	Pass
3	4930.544	51.97	74.0	22.03	Peak	181.00	200	Horizontal	Pass
3**	4930.544	43.72	54.0	10.28	AV	181.00	200	Horizontal	Pass
4	6804.968	54.35	74.0	19.65	Peak	257.00	300	Horizontal	Pass
4**	6804.968	43.68	54.0	10.32	AV	257.00	300	Horizontal	Pass
5	13414.430	58.14	74.0	15.86	Peak	220.00	400	Horizontal	Pass
5**	13414.430	46.72	54.0	7.28	AV	220.00	400	Horizontal	Pass
6	17428.696	54.61	74.0	19.39	Peak	262.00	100	Horizontal	Pass
6**	17428.696	50.24	54.0	3.76	AV	262.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.715	45.53	74.0	28.47	Peak	133.00	400	Vertical	Pass
1**	1330.715	37.13	54.0	16.87	AV	133.00	400	Vertical	Pass
2	2978.061	48.61	74.0	25.39	Peak	188.00	200	Vertical	Pass
2**	2978.061	40.21	54.0	13.79	AV	188.00	200	Vertical	Pass
3	4850.462	49.41	74.0	24.59	Peak	138.00	200	Vertical	Pass
3**	4850.462	43.10	54.0	10.90	AV	138.00	200	Vertical	Pass
4	6609.815	56.81	74.0	17.19	Peak	355.00	400	Vertical	Pass
4**	6609.815	42.60	54.0	11.40	AV	355.00	400	Vertical	Pass
5	13436.175	58.11	74.0	15.89	Peak	344.00	100	Vertical	Pass
5**	13436.175	43.69	54.0	10.31	AV	344.00	100	Vertical	Pass
6	17418.144	54.16	74.0	19.84	Peak	285.00	200	Vertical	Pass
6**	17418.144	49.99	54.0	4.01	AV	285.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1326.862	42.94	74.0	31.06	Peak	338.00	200	Horizontal	Pass
1**	1326.862	34.31	54.0	19.69	AV	338.00	200	Horizontal	Pass
2	2995.816	49.63	74.0	24.37	Peak	78.00	200	Horizontal	Pass
2**	2995.816	44.28	54.0	9.72	AV	78.00	200	Horizontal	Pass
3	4932.681	52.68	74.0	21.32	Peak	242.00	200	Horizontal	Pass
3**	4932.681	42.04	54.0	11.96	AV	242.00	200	Horizontal	Pass
4	6804.513	53.75	74.0	20.25	Peak	187.00	300	Horizontal	Pass
4**	6804.513	42.11	54.0	11.89	AV	187.00	300	Horizontal	Pass
5	13408.780	53.96	74.0	20.04	Peak	240.00	200	Horizontal	Pass
5**	13408.780	44.78	54.0	9.22	AV	240.00	200	Horizontal	Pass
6	17426.602	55.51	74.0	18.49	Peak	327.00	300	Horizontal	Pass
6**	17426.602	49.73	54.0	4.27	AV	327.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.731	46.33	74.0	27.67	Peak	240.00	200	Vertical	Pass
1**	1335.731	35.70	54.0	18.30	AV	240.00	200	Vertical	Pass
2	2978.842	52.47	74.0	21.53	Peak	354.00	200	Vertical	Pass
2**	2978.842	44.51	54.0	9.49	AV	354.00	200	Vertical	Pass
3	4855.676	46.79	74.0	27.21	Peak	300.00	200	Vertical	Pass
3**	4855.676	41.66	54.0	12.34	AV	300.00	200	Vertical	Pass
4	6610.528	55.81	74.0	18.19	Peak	201.00	300	Vertical	Pass
4**	6610.528	44.04	54.0	9.96	AV	201.00	300	Vertical	Pass
5	13435.776	54.93	74.0	19.07	Peak	98.00	300	Vertical	Pass
5**	13435.776	45.88	54.0	8.12	AV	98.00	300	Vertical	Pass
6	17418.182	55.16	74.0	18.84	Peak	49.00	100	Vertical	Pass
6**	17418.182	47.91	54.0	6.09	AV	49.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.048	43.74	74.0	30.26	Peak	79.00	100	Horizontal	Pass
1**	1332.048	35.03	54.0	18.97	AV	79.00	100	Horizontal	Pass
2	3000.078	48.35	74.0	25.65	Peak	332.00	100	Horizontal	Pass
2**	3000.078	40.45	54.0	13.55	AV	332.00	100	Horizontal	Pass
3	4934.372	52.39	74.0	21.61	Peak	298.00	200	Horizontal	Pass
3**	4934.372	44.25	54.0	9.75	AV	298.00	200	Horizontal	Pass
4	6804.044	57.04	74.0	16.96	Peak	119.00	400	Horizontal	Pass
4**	6804.044	46.72	54.0	7.28	AV	119.00	400	Horizontal	Pass
5	13413.682	53.60	74.0	20.40	Peak	144.00	300	Horizontal	Pass
5**	13413.682	43.77	54.0	10.23	AV	144.00	300	Horizontal	Pass
6	17427.835	54.24	74.0	19.76	Peak	97.00	300	Horizontal	Pass
6**	17427.835	46.38	54.0	7.62	AV	97.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.119	47.95	74.0	26.05	Peak	292.00	200	Vertical	Pass
1**	1335.119	39.14	54.0	14.86	AV	292.00	200	Vertical	Pass
2	2983.318	48.27	74.0	25.73	Peak	87.00	300	Vertical	Pass
2**	2983.318	44.57	54.0	9.43	AV	87.00	300	Vertical	Pass
3	4855.978	46.84	74.0	27.16	Peak	134.00	200	Vertical	Pass
3**	4855.978	37.86	54.0	16.14	AV	134.00	200	Vertical	Pass
4	6609.961	52.64	74.0	21.36	Peak	308.00	100	Vertical	Pass
4**	6609.961	45.55	54.0	8.45	AV	308.00	100	Vertical	Pass
5	13436.394	52.95	74.0	21.05	Peak	268.00	200	Vertical	Pass
5**	13436.394	47.28	54.0	6.72	AV	268.00	200	Vertical	Pass
6	17415.164	56.45	74.0	17.55	Peak	93.00	300	Vertical	Pass
6**	17415.164	49.01	54.0	4.99	AV	93.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.322	47.36	74.0	26.64	Peak	285.00	100	Horizontal	Pass
1**	1329.322	38.65	54.0	15.35	AV	285.00	100	Horizontal	Pass
2	2994.790	51.75	74.0	22.25	Peak	326.00	200	Horizontal	Pass
2**	2994.790	41.90	54.0	12.10	AV	326.00	200	Horizontal	Pass
3	4937.948	53.79	74.0	20.21	Peak	175.00	200	Horizontal	Pass
3**	4937.948	42.56	54.0	11.44	AV	175.00	200	Horizontal	Pass
4	6803.969	53.93	74.0	20.07	Peak	184.00	400	Horizontal	Pass
4**	6803.969	41.96	54.0	12.04	AV	184.00	400	Horizontal	Pass
5	13407.679	53.75	74.0	20.25	Peak	17.00	400	Horizontal	Pass
5**	13407.679	46.61	54.0	7.39	AV	17.00	400	Horizontal	Pass
6	17426.068	58.61	74.0	15.39	Peak	48.00	300	Horizontal	Pass
6**	17426.068	50.03	54.0	3.97	AV	48.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.273	45.10	74.0	28.90	Peak	263.00	200	Vertical	Pass
1**	1333.273	37.48	54.0	16.52	AV	263.00	200	Vertical	Pass
2	2978.780	48.23	74.0	25.77	Peak	246.00	200	Vertical	Pass
2**	2978.780	43.24	54.0	10.76	AV	246.00	200	Vertical	Pass
3	4850.487	50.72	74.0	23.28	Peak	60.00	200	Vertical	Pass
3**	4850.487	43.56	54.0	10.44	AV	60.00	200	Vertical	Pass
4	6604.346	51.43	74.0	22.57	Peak	223.00	300	Vertical	Pass
4**	6604.346	47.43	54.0	6.57	AV	223.00	300	Vertical	Pass
5	13437.415	58.01	74.0	15.99	Peak	183.00	300	Vertical	Pass
5**	13437.415	46.74	54.0	7.26	AV	183.00	300	Vertical	Pass
6	17414.606	56.70	74.0	17.30	Peak	253.00	300	Vertical	Pass
6**	17414.606	50.19	54.0	3.81	AV	253.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.706	43.83	74.0	30.17	Peak	337.00	400	Horizontal	Pass
1**	1327.706	35.27	54.0	18.73	AV	337.00	400	Horizontal	Pass
2	2998.051	52.21	74.0	21.79	Peak	257.00	100	Horizontal	Pass
2**	2998.051	39.06	54.0	14.94	AV	257.00	100	Horizontal	Pass
3	4930.451	54.36	74.0	19.64	Peak	130.00	200	Horizontal	Pass
3**	4930.451	43.68	54.0	10.32	AV	130.00	200	Horizontal	Pass
4	6805.649	55.24	74.0	18.76	Peak	357.00	400	Horizontal	Pass
4**	6805.649	46.38	54.0	7.62	AV	357.00	400	Horizontal	Pass
5	13412.677	52.60	74.0	21.40	Peak	315.00	100	Horizontal	Pass
5**	13412.677	43.64	54.0	10.36	AV	315.00	100	Horizontal	Pass
6	17428.919	54.95	74.0	19.05	Peak	19.00	400	Horizontal	Pass
6**	17428.919	48.02	54.0	5.98	AV	19.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1334.040	42.43	74.0	31.57	Peak	207.00	100	Vertical	Pass
1**	1334.040	37.41	54.0	16.59	AV	207.00	100	Vertical	Pass
2	2984.834	51.13	74.0	22.87	Peak	331.00	200	Vertical	Pass
2**	2984.834	38.89	54.0	15.11	AV	331.00	200	Vertical	Pass
3	4854.912	47.89	74.0	26.11	Peak	207.00	200	Vertical	Pass
3**	4854.912	39.94	54.0	14.06	AV	207.00	200	Vertical	Pass
4	6606.892	57.20	74.0	16.80	Peak	329.00	100	Vertical	Pass
4**	6606.892	43.53	54.0	10.47	AV	329.00	100	Vertical	Pass
5	13437.733	52.62	74.0	21.38	Peak	3.00	100	Vertical	Pass
5**	13437.733	47.53	54.0	6.47	AV	3.00	100	Vertical	Pass
6	17417.036	56.81	74.0	17.19	Peak	174.00	400	Vertical	Pass
6**	17417.036	44.37	54.0	9.63	AV	174.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.307	46.67	74.0	27.33	Peak	176.00	200	Horizontal	Pass
1**	1328.307	36.25	54.0	17.75	AV	176.00	200	Horizontal	Pass
2	2999.981	51.96	74.0	22.04	Peak	86.00	100	Horizontal	Pass
2**	2999.981	43.45	54.0	10.55	AV	86.00	100	Horizontal	Pass
3	4930.834	53.50	74.0	20.50	Peak	298.00	200	Horizontal	Pass
3**	4930.834	44.24	54.0	9.76	AV	298.00	200	Horizontal	Pass
4	6805.983	51.85	74.0	22.15	Peak	252.00	400	Horizontal	Pass
4**	6805.983	46.60	54.0	7.40	AV	252.00	400	Horizontal	Pass
5	13412.136	53.50	74.0	20.50	Peak	92.00	100	Horizontal	Pass
5**	13412.136	49.20	54.0	4.80	AV	92.00	100	Horizontal	Pass
6	17424.628	56.34	74.0	17.66	Peak	42.00	300	Horizontal	Pass
6**	17424.628	47.68	54.0	6.32	AV	42.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.787	43.89	74.0	30.11	Peak	320.00	200	Vertical	Pass
1**	1331.787	39.52	54.0	14.48	AV	320.00	200	Vertical	Pass
2	2978.631	52.38	74.0	21.62	Peak	134.00	400	Vertical	Pass
2**	2978.631	41.64	54.0	12.36	AV	134.00	400	Vertical	Pass
3	4853.981	50.03	74.0	23.97	Peak	196.00	200	Vertical	Pass
3**	4853.981	41.05	54.0	12.95	AV	196.00	200	Vertical	Pass
4	6610.002	55.95	74.0	18.05	Peak	68.00	200	Vertical	Pass
4**	6610.002	44.08	54.0	9.92	AV	68.00	200	Vertical	Pass
5	13435.375	52.57	74.0	21.43	Peak	50.00	400	Vertical	Pass
5**	13435.375	45.48	54.0	8.52	AV	50.00	400	Vertical	Pass
6	17417.858	60.11	74.0	13.89	Peak	146.00	300	Vertical	Pass
6**	17417.858	46.86	54.0	7.14	AV	146.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.406	45.25	74.0	28.75	Peak	105.00	400	Horizontal	Pass
1**	1331.406	38.67	54.0	15.33	AV	105.00	400	Horizontal	Pass
2	2993.486	48.06	74.0	25.94	Peak	219.00	100	Horizontal	Pass
2**	2993.486	43.84	54.0	10.16	AV	219.00	100	Horizontal	Pass
3	4935.715	48.89	74.0	25.11	Peak	176.00	200	Horizontal	Pass
3**	4935.715	41.85	54.0	12.15	AV	176.00	200	Horizontal	Pass
4	6803.469	56.65	74.0	17.35	Peak	30.00	200	Horizontal	Pass
4**	6803.469	43.71	54.0	10.29	AV	30.00	200	Horizontal	Pass
5	13413.900	57.24	74.0	16.76	Peak	197.00	400	Horizontal	Pass
5**	13413.900	44.17	54.0	9.83	AV	197.00	400	Horizontal	Pass
6	17428.722	53.14	74.0	20.86	Peak	22.00	400	Horizontal	Pass
6**	17428.722	47.50	54.0	6.50	AV	22.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1334.903	44.09	74.0	29.91	Peak	132.00	200	Vertical	Pass
1**	1334.903	40.19	54.0	13.81	AV	132.00	200	Vertical	Pass
2	2983.100	47.73	74.0	26.27	Peak	102.00	200	Vertical	Pass
2**	2983.100	43.47	54.0	10.53	AV	102.00	200	Vertical	Pass
3	4854.301	50.97	74.0	23.03	Peak	199.00	200	Vertical	Pass
3**	4854.301	41.46	54.0	12.54	AV	199.00	200	Vertical	Pass
4	6610.616	54.70	74.0	19.30	Peak	256.00	200	Vertical	Pass
4**	6610.616	43.81	54.0	10.19	AV	256.00	200	Vertical	Pass
5	13435.757	57.89	74.0	16.11	Peak	165.00	400	Vertical	Pass
5**	13435.757	47.72	54.0	6.28	AV	165.00	400	Vertical	Pass
6	17416.109	56.91	74.0	17.09	Peak	217.00	400	Vertical	Pass
6**	17416.109	48.58	54.0	5.42	AV	217.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax20(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.730	42.98	74.0	31.02	Peak	5.00	300	Horizontal	Pass
1**	1331.730	38.19	54.0	15.81	AV	5.00	300	Horizontal	Pass
2	2995.370	48.54	74.0	25.46	Peak	133.00	400	Horizontal	Pass
2**	2995.370	38.77	54.0	15.23	AV	133.00	400	Horizontal	Pass
3	4933.403	50.06	74.0	23.94	Peak	255.00	200	Horizontal	Pass
3**	4933.403	39.81	54.0	14.19	AV	255.00	200	Horizontal	Pass
4	6808.660	53.39	74.0	20.61	Peak	200.00	100	Horizontal	Pass
4**	6808.660	44.50	54.0	9.50	AV	200.00	100	Horizontal	Pass
5	13411.359	55.27	74.0	18.73	Peak	309.00	200	Horizontal	Pass
5**	13411.359	49.15	54.0	4.85	AV	309.00	200	Horizontal	Pass
6	17428.137	55.12	74.0	18.88	Peak	345.00	300	Horizontal	Pass
6**	17428.137	46.37	54.0	7.63	AV	345.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax20(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.521	46.56	74.0	27.44	Peak	73.00	300	Vertical	Pass
1**	1335.521	35.10	54.0	18.90	AV	73.00	300	Vertical	Pass
2	2980.510	51.30	74.0	22.70	Peak	358.00	200	Vertical	Pass
2**	2980.510	41.96	54.0	12.04	AV	358.00	200	Vertical	Pass
3	4854.791	52.15	74.0	21.85	Peak	59.00	200	Vertical	Pass
3**	4854.791	39.12	54.0	14.88	AV	59.00	200	Vertical	Pass
4	6605.885	54.63	74.0	19.37	Peak	66.00	200	Vertical	Pass
4**	6605.885	42.38	54.0	11.62	AV	66.00	200	Vertical	Pass
5	13436.560	52.84	74.0	21.16	Peak	87.00	100	Vertical	Pass
5**	13436.560	47.53	54.0	6.47	AV	87.00	100	Vertical	Pass
6	17413.854	55.38	74.0	18.62	Peak	57.00	400	Vertical	Pass
6**	17413.854	48.66	54.0	5.34	AV	57.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax20(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.306	45.28	74.0	28.72	Peak	230.00	200	Horizontal	Pass
1**	1327.306	37.52	54.0	16.48	AV	230.00	200	Horizontal	Pass
2	2994.459	51.02	74.0	22.98	Peak	140.00	100	Horizontal	Pass
2**	2994.459	38.91	54.0	15.09	AV	140.00	100	Horizontal	Pass
3	4934.248	49.29	74.0	24.71	Peak	163.00	200	Horizontal	Pass
3**	4934.248	38.89	54.0	15.11	AV	163.00	200	Horizontal	Pass
4	6807.984	52.96	74.0	21.04	Peak	224.00	400	Horizontal	Pass
4**	6807.984	44.57	54.0	9.43	AV	224.00	400	Horizontal	Pass
5	13412.613	54.79	74.0	19.21	Peak	47.00	300	Horizontal	Pass
5**	13412.613	46.57	54.0	7.43	AV	47.00	300	Horizontal	Pass
6	17422.450	57.56	74.0	16.44	Peak	277.00	100	Horizontal	Pass
6**	17422.450	46.62	54.0	7.38	AV	277.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax20(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.902	45.14	74.0	28.86	Peak	41.00	400	Vertical	Pass
1**	1333.902	37.91	54.0	16.09	AV	41.00	400	Vertical	Pass
2	2985.929	52.74	74.0	21.26	Peak	357.00	100	Vertical	Pass
2**	2985.929	40.11	54.0	13.89	AV	357.00	100	Vertical	Pass
3	4855.789	48.35	74.0	25.65	Peak	50.00	200	Vertical	Pass
3**	4855.789	43.44	54.0	10.56	AV	50.00	200	Vertical	Pass
4	6607.480	56.06	74.0	17.94	Peak	197.00	300	Vertical	Pass
4**	6607.480	46.82	54.0	7.18	AV	197.00	300	Vertical	Pass
5	13437.400	53.15	74.0	20.85	Peak	116.00	200	Vertical	Pass
5**	13437.400	44.45	54.0	9.55	AV	116.00	200	Vertical	Pass
6	17418.887	60.11	74.0	13.89	Peak	166.00	300	Vertical	Pass
6**	17418.887	45.97	54.0	8.03	AV	166.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H802.11ax20(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.530	44.09	74.0	29.91	Peak	102.00	300	Horizontal	Pass
1**	1333.530	35.22	54.0	18.78	AV	102.00	300	Horizontal	Pass
2	2994.158	47.67	74.0	26.33	Peak	319.00	400	Horizontal	Pass
2**	2994.158	39.55	54.0	14.45	AV	319.00	400	Horizontal	Pass
3	4933.066	51.94	74.0	22.06	Peak	81.00	200	Horizontal	Pass
3**	4933.066	42.72	54.0	11.28	AV	81.00	200	Horizontal	Pass
4	6804.733	52.90	74.0	21.10	Peak	17.00	400	Horizontal	Pass
4**	6804.733	45.06	54.0	8.94	AV	17.00	400	Horizontal	Pass
5	13414.545	55.02	74.0	18.98	Peak	296.00	400	Horizontal	Pass
5**	13414.545	49.09	54.0	4.91	AV	296.00	400	Horizontal	Pass
6	17426.759	58.43	74.0	15.57	Peak	92.00	100	Horizontal	Pass
6**	17426.759	45.98	54.0	8.02	AV	92.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax20(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.132	46.46	74.0	27.54	Peak	200.00	400	Vertical	Pass
1**	1335.132	35.91	54.0	18.09	AV	200.00	400	Vertical	Pass
2	2984.573	52.33	74.0	21.67	Peak	340.00	200	Vertical	Pass
2**	2984.573	44.05	54.0	9.95	AV	340.00	200	Vertical	Pass
3	4852.116	50.84	74.0	23.16	Peak	12.00	200	Vertical	Pass
3**	4852.116	42.98	54.0	11.02	AV	12.00	200	Vertical	Pass
4	6603.899	53.45	74.0	20.55	Peak	349.00	400	Vertical	Pass
4**	6603.899	43.50	54.0	10.50	AV	349.00	400	Vertical	Pass
5	13433.487	55.85	74.0	18.15	Peak	317.00	300	Vertical	Pass
5**	13433.487	43.71	54.0	10.29	AV	317.00	300	Vertical	Pass
6	17415.133	59.14	74.0	14.86	Peak	28.00	200	Vertical	Pass
6**	17415.133	48.45	54.0	5.55	AV	28.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax40(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.316	47.23	74.0	26.77	Peak	105.00	100	Horizontal	Pass
1**	1329.316	35.98	54.0	18.02	AV	105.00	100	Horizontal	Pass
2	2999.258	51.69	74.0	22.31	Peak	301.00	100	Horizontal	Pass
2**	2999.258	42.00	54.0	12.00	AV	301.00	100	Horizontal	Pass
3	4934.632	54.61	74.0	19.39	Peak	314.00	200	Horizontal	Pass
3**	4934.632	40.58	54.0	13.42	AV	314.00	200	Horizontal	Pass
4	6807.019	57.03	74.0	16.97	Peak	227.00	200	Horizontal	Pass
4**	6807.019	43.59	54.0	10.41	AV	227.00	200	Horizontal	Pass
5	13409.973	53.80	74.0	20.20	Peak	221.00	200	Horizontal	Pass
5**	13409.973	45.78	54.0	8.22	AV	221.00	200	Horizontal	Pass
6	17422.645	58.67	74.0	15.33	Peak	225.00	400	Horizontal	Pass
6**	17422.645	46.48	54.0	7.52	AV	225.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax40(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1334.638	45.23	74.0	28.77	Peak	327.00	400	Vertical	Pass
1**	1334.638	36.76	54.0	17.24	AV	327.00	400	Vertical	Pass
2	2981.113	53.38	74.0	20.62	Peak	319.00	300	Vertical	Pass
2**	2981.113	38.86	54.0	15.14	AV	319.00	300	Vertical	Pass
3	4857.233	49.06	74.0	24.94	Peak	307.00	200	Vertical	Pass
3**	4857.233	40.09	54.0	13.91	AV	307.00	200	Vertical	Pass
4	6610.567	54.56	74.0	19.44	Peak	313.00	200	Vertical	Pass
4**	6610.567	43.67	54.0	10.33	AV	313.00	200	Vertical	Pass
5	13432.308	53.74	74.0	20.26	Peak	267.00	100	Vertical	Pass
5**	13432.308	43.79	54.0	10.21	AV	267.00	100	Vertical	Pass
6	17413.259	55.85	74.0	18.15	Peak	360.00	200	Vertical	Pass
6**	17413.259	49.71	54.0	4.29	AV	360.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax40(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.408	43.02	74.0	30.98	Peak	16.00	400	Horizontal	Pass
1**	1333.408	36.54	54.0	17.46	AV	16.00	400	Horizontal	Pass
2	2996.293	52.14	74.0	21.86	Peak	272.00	100	Horizontal	Pass
2**	2996.293	42.99	54.0	11.01	AV	272.00	100	Horizontal	Pass
3	4931.596	52.65	74.0	21.35	Peak	251.00	200	Horizontal	Pass
3**	4931.596	39.32	54.0	14.68	AV	251.00	200	Horizontal	Pass
4	6806.089	52.60	74.0	21.40	Peak	76.00	300	Horizontal	Pass
4**	6806.089	45.79	54.0	8.21	AV	76.00	300	Horizontal	Pass
5	13410.593	54.13	74.0	19.87	Peak	178.00	200	Horizontal	Pass
5**	13410.593	49.09	54.0	4.91	AV	178.00	200	Horizontal	Pass
6	17428.453	55.69	74.0	18.31	Peak	90.00	100	Horizontal	Pass
6**	17428.453	44.69	54.0	9.31	AV	90.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax40(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1336.678	43.26	74.0	30.74	Peak	159.00	100	Vertical	Pass
1**	1336.678	35.27	54.0	18.73	AV	159.00	100	Vertical	Pass
2	2984.991	51.07	74.0	22.93	Peak	150.00	200	Vertical	Pass
2**	2984.991	39.69	54.0	14.31	AV	150.00	200	Vertical	Pass
3	4852.562	46.66	74.0	27.34	Peak	209.00	200	Vertical	Pass
3**	4852.562	42.74	54.0	11.26	AV	209.00	200	Vertical	Pass
4	6604.690	55.19	74.0	18.81	Peak	1.00	200	Vertical	Pass
4**	6604.690	46.87	54.0	7.13	AV	1.00	200	Vertical	Pass
5	13436.671	53.37	74.0	20.63	Peak	295.00	200	Vertical	Pass
5**	13436.671	44.53	54.0	9.47	AV	295.00	200	Vertical	Pass
6	17420.786	56.02	74.0	17.98	Peak	54.00	300	Vertical	Pass
6**	17420.786	46.14	54.0	7.86	AV	54.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax40(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.018	43.66	74.0	30.34	Peak	16.00	200	Horizontal	Pass
1**	1333.018	37.74	54.0	16.26	AV	16.00	200	Horizontal	Pass
2	2999.653	48.59	74.0	25.41	Peak	118.00	100	Horizontal	Pass
2**	2999.653	40.79	54.0	13.21	AV	118.00	100	Horizontal	Pass
3	4930.682	51.94	74.0	22.06	Peak	211.00	200	Horizontal	Pass
3**	4930.682	40.22	54.0	13.78	AV	211.00	200	Horizontal	Pass
4	6808.136	57.04	74.0	16.96	Peak	298.00	400	Horizontal	Pass
4**	6808.136	42.60	54.0	11.40	AV	298.00	400	Horizontal	Pass
5	13411.253	55.12	74.0	18.88	Peak	248.00	100	Horizontal	Pass
5**	13411.253	43.86	54.0	10.14	AV	248.00	100	Horizontal	Pass
6	17425.140	57.76	74.0	16.24	Peak	259.00	400	Horizontal	Pass
6**	17425.140	45.02	54.0	8.98	AV	259.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax40(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.850	42.36	74.0	31.64	Peak	253.00	400	Vertical	Pass
1**	1335.850	35.40	54.0	18.60	AV	253.00	400	Vertical	Pass
2	2979.196	51.46	74.0	22.54	Peak	352.00	400	Vertical	Pass
2**	2979.196	43.09	54.0	10.91	AV	352.00	400	Vertical	Pass
3	4850.309	51.05	74.0	22.95	Peak	136.00	200	Vertical	Pass
3**	4850.309	39.45	54.0	14.55	AV	136.00	200	Vertical	Pass
4	6603.918	55.44	74.0	18.56	Peak	76.00	100	Vertical	Pass
4**	6603.918	42.53	54.0	11.47	AV	76.00	100	Vertical	Pass
5	13437.182	53.27	74.0	20.73	Peak	253.00	200	Vertical	Pass
5**	13437.182	49.05	54.0	4.95	AV	253.00	200	Vertical	Pass
6	17414.421	57.03	74.0	16.97	Peak	347.00	100	Vertical	Pass
6**	17414.421	49.17	54.0	4.83	AV	347.00	100	Vertical	Pass

A.7 Band Edge (Restricted-band band-edge)

Note ¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note ³: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ⁴: The Level (dBuV/m) has been corrected by factor.

Note ⁵: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

Test Data**802.11b LOW CHANNEL**

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2318.833	55.80	74.0	18.20	Peak	349.00	200	Horizontal	Pass
1**	2318.833	43.54	54.0	10.46	AV	349.00	200	Horizontal	Pass
2	2389.833	53.54	74.0	20.46	Peak	323.00	100	Horizontal	Pass
2**	2389.833	43.49	54.0	10.51	AV	323.00	100	Horizontal	Pass

802.11b HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.17	74.0	19.83	Peak	217.00	200	Horizontal	Pass
1**	2483.500	43.57	54.0	10.43	AV	217.00	200	Horizontal	Pass
2	2490.300	56.01	74.0	17.99	Peak	232.00	100	Horizontal	Pass
2**	2490.300	43.29	54.0	10.71	AV	232.00	100	Horizontal	Pass

802.11g LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.833	62.04	74.0	11.96	Peak	100.00	150	Horizontal	Pass
1**	2388.833	46.91	54.0	7.09	AV	100.00	150	Horizontal	Pass
2	2389.833	62.28	74.0	11.72	Peak	94.00	100	Horizontal	Pass
2**	2389.833	47.62	54.0	6.38	AV	94.00	100	Horizontal	Pass

802.11g HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	58.26	74.0	15.74	Peak	95.00	150	Horizontal	Pass
1**	2483.500	46.33	54.0	7.67	AV	95.00	150	Horizontal	Pass
2	2483.950	56.90	74.0	17.10	Peak	98.00	200	Horizontal	Pass
2**	2483.950	45.83	54.0	8.17	AV	98.00	200	Horizontal	Pass

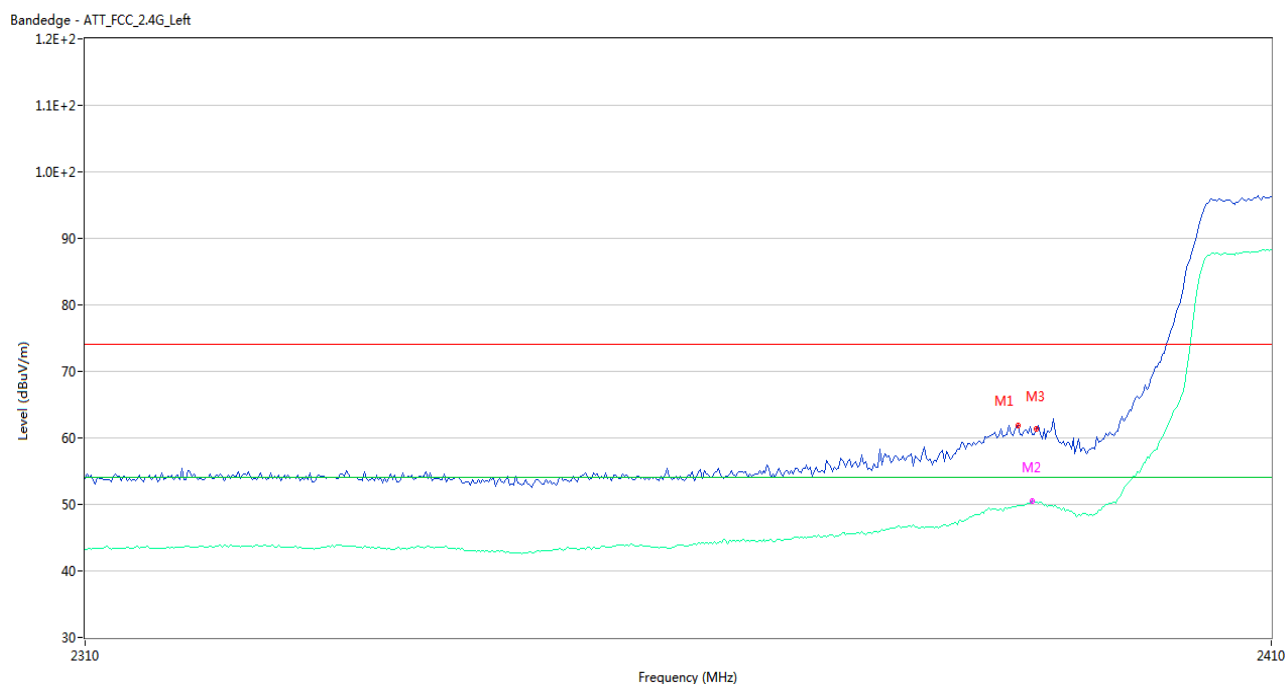
802.11n20 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.167	64.27	74.0	9.73	Peak	108.00	100	Horizontal	Pass
1**	2388.167	48.32	54.0	5.68	AV	108.00	100	Horizontal	Pass
2	2389.833	62.66	74.0	11.34	Peak	95.00	200	Horizontal	Pass
2**	2389.833	49.73	54.0	4.27	AV	95.00	200	Horizontal	Pass

802.11n20 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	60.43	74.0	13.57	Peak	220.00	150	Horizontal	Pass
1**	2483.550	47.77	54.0	6.23	AV	220.00	150	Horizontal	Pass
2	2483.950	59.27	74.0	14.73	Peak	111.00	150	Horizontal	Pass
2**	2483.950	46.94	54.0	7.06	AV	111.00	150	Horizontal	Pass

802.11n40 LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.333	61.89	74.0	12.11	Peak	101.00	150	Horizontal	Pass
1**	2388.333	49.77	54.0	4.23	AV	101.00	150	Horizontal	Pass
2	2389.500	60.55	74.0	13.45	Peak	94.00	150	Horizontal	Pass
2**	2389.500	50.48	54.0	3.52	AV	94.00	150	Horizontal	Pass
3	2389.833	61.31	74.0	12.69	Peak	106.00	150	Horizontal	Pass
3**	2389.833	50.28	54.0	3.72	AV	106.00	150	Horizontal	Pass

802.11n40 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	59.11	74.0	14.89	Peak	112.00	100	Horizontal	Pass
1**	2483.500	49.55	54.0	4.45	AV	112.00	100	Horizontal	Pass
2	2488.600	62.78	74.0	11.22	Peak	112.00	100	Horizontal	Pass
2**	2488.600	49.02	54.0	4.98	AV	112.00	100	Horizontal	Pass
3	2490.600	60.58	74.0	13.42	Peak	115.00	150	Horizontal	Pass
3**	2490.600	50.17	54.0	3.83	AV	115.00	150	Horizontal	Pass

802.11ax20(SU) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.833	67.17	74.0	6.83	Peak	99.00	100	Horizontal	Pass
1**	2388.833	49.37	54.0	4.63	AV	99.00	100	Horizontal	Pass
2	2389.833	63.89	74.0	10.11	Peak	102.00	150	Horizontal	Pass
2**	2389.833	50.02	54.0	3.98	AV	102.00	150	Horizontal	Pass

802.11ax20(SU) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	63.77	74.0	10.23	Peak	112.00	200	Horizontal	Pass
1**	2483.500	48.88	54.0	5.12	AV	112.00	200	Horizontal	Pass
2	2484.450	62.22	74.0	11.78	Peak	108.00	150	Horizontal	Pass
2**	2484.450	47.43	54.0	6.57	AV	108.00	150	Horizontal	Pass

802.11ax40(SU) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.167	62.42	74.0	11.58	Peak	91.00	150	Horizontal	Pass
1**	2388.167	50.07	54.0	3.93	AV	91.00	150	Horizontal	Pass
2	2389.833	60.62	74.0	13.38	Peak	91.00	200	Horizontal	Pass
2**	2389.833	50.07	54.0	3.93	AV	91.00	200	Horizontal	Pass

802.11ax40(SU) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	61.74	74.0	12.26	Peak	101.00	150	Horizontal	Pass
1**	2483.500	50.34	54.0	3.66	AV	101.00	150	Horizontal	Pass
2	2484.700	63.72	74.0	10.28	Peak	118.00	150	Horizontal	Pass
2**	2484.700	47.85	54.0	6.15	AV	118.00	150	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-8.70	8
Middle	-7.66	8
High	-9.33	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-10.26	8
Middle	-9.41	8
High	-10.93	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.15	8
Middle	-10.07	8
High	-11.16	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-14.33	8
Middle	-12.62	8
High	-13.21	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.85	8
Middle	-8.72	8
High	-8.91	8

802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.73	8
Middle	-11.15	8
High	-11.81	8

Test Plots

802.11b LOW CHANNEL



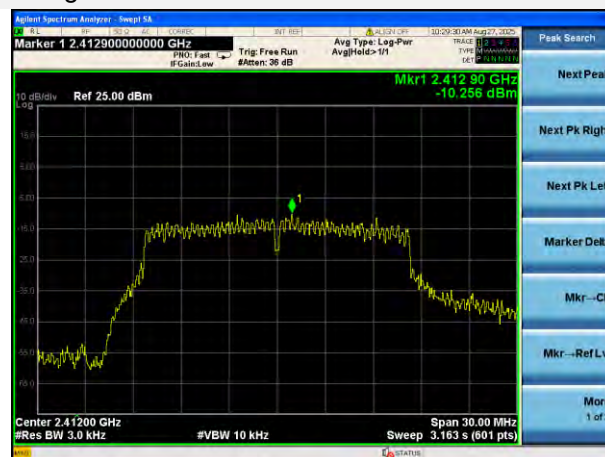
802.11b MIDDLE CHANNEL



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



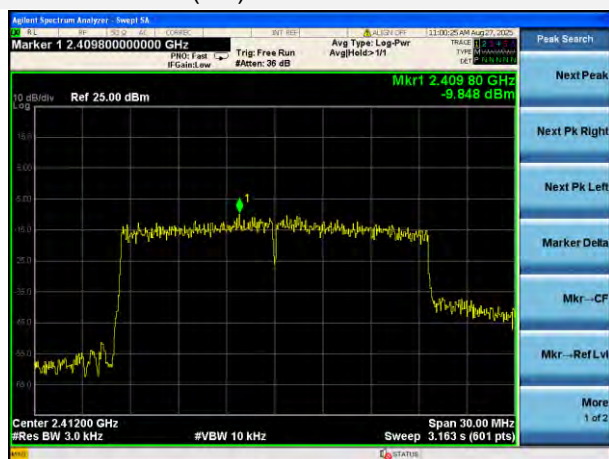
802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



802.11ax-20 MHz(SU) HIGH CHANNEL



802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2580315-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2580315-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2580315-AI.PDF”.

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