

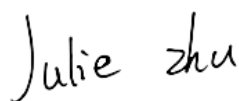


TEST REPORT

Applicant: Acer Incorporated
Address: 8F, 88, Sec.1 Xintai 5th Rd. Xizhi, New Taipei City
221, Taiwan
Equipment Type: Tablet PC
Model Name: A26004 (refer to section 2.3)
Brand Name: acer
Marketing Name: Iconia Duo S12, S12-11M***
(The symbol "*" can be 0-9, a-z, A-Z, "(", ")", "-", "/",
"\", " _ " or blank)
FCC ID: HLZA26004
ISED Number: 1754F-A26004
Test Standard: 47 CFR Part 15 Subpart C
RSS-Gen Issue 5
RSS-247 Issue 4
(refer to section 3.1)
Sample Arrival Date: Feb. 26, 2026
Test Date: Mar. 04, 2026 - Mar. 16, 2026
Date of Issue: Apr. 24, 2026

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>Apr. 24, 2026</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
	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No. 55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong Province, 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 32189.

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	A26004
Series Model Name	A26004*** (The symbol "*" can be 0-9, a-z, A-Z, "(", ")", "-", "/", "\\", "_" or blank)
Description of Model name differentiation	Only differences are model names for trading purpose. (this information provided by the applicant)
Serial Number	N8LL5WW00160600C1E6X00
Marketing Name	Iconia Duo S12, S12-11M*** (The symbol "*" can be 0-9, a-z, A-Z, "(", ")", "-", "/", "\\", "_" or blank)
Hardware Version	N113HWR120
Software Version	Android 16
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, Galileo, BDS
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	2.400 GHz - 2.4835 GHz
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	1.73 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.

2.5 Channel List

20 MHz		40 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447		
9	2452		
10	2457		
11	2462		

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	8.1/8.6
	QPSK	16.3/24.4/17.2/25.8
	16QAM	32.5/48.8/34.4/51.6
	64QAM	65/73.1/81.3/68.8/77.4/86
	256QAM	97.5/108.3/103.2/114.7
OFDMA	BPSK	17.2

(802.11ax-40 MHz)	QPSK	33/49/34/52
	16QAM	65/98/69/103
	64QAM	130/146/163/138/155/172
	256QAM	195/217/207/229

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 for Procedures for Compliance Testing of Unlicensed Wireless Devices
5	KDB Publication 558074 D01v05r02☆	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}

Note¹: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note²: 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	48% to 62%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.1℃ to +26.5℃
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	2025.12.25	2026.12.24
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	107	2024.05.12	2027.05.11
EMI Receiver	Keysight	N9038A	MY55330121	2025.04.16	2026.04.15
Filtering unit	balun	SU319F	LW-SZ19D0001F01	N/A	N/A
Switching unit	BALUN	SU319	LW-SZ19D0001S01	N/A	N/A
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%

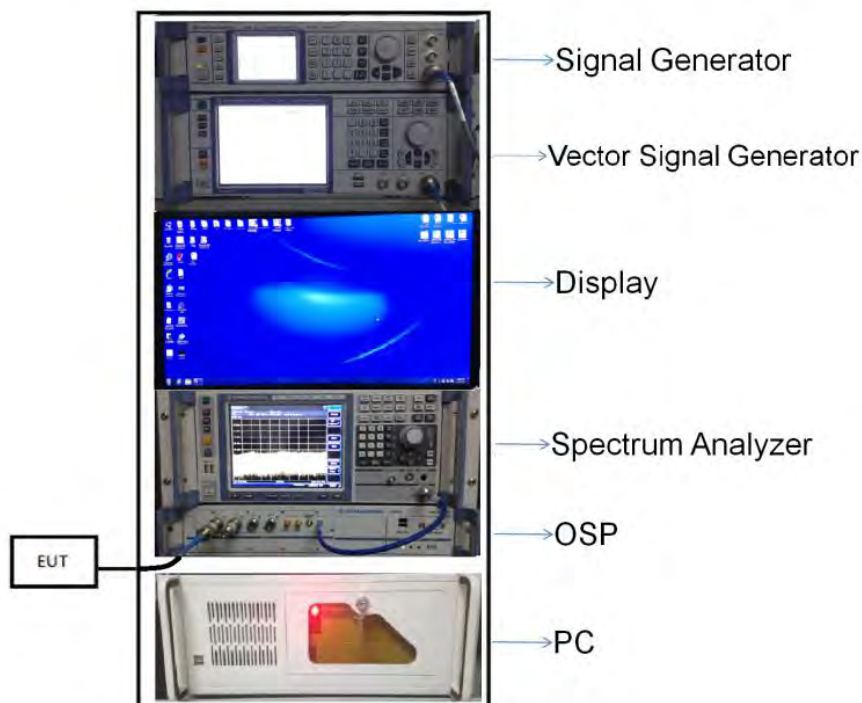
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

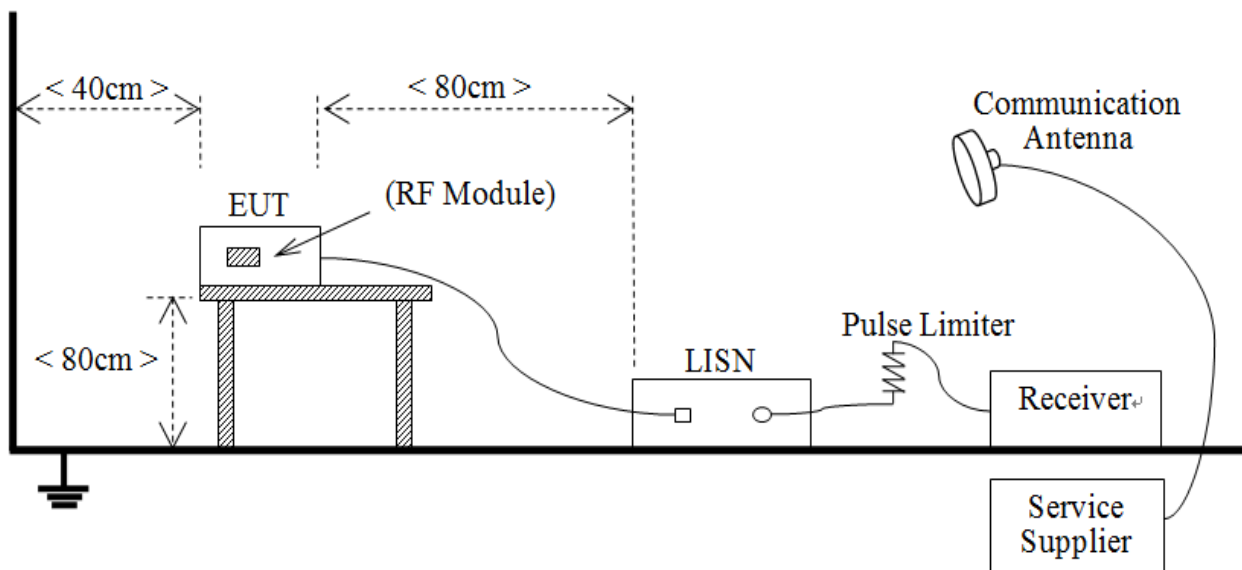
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



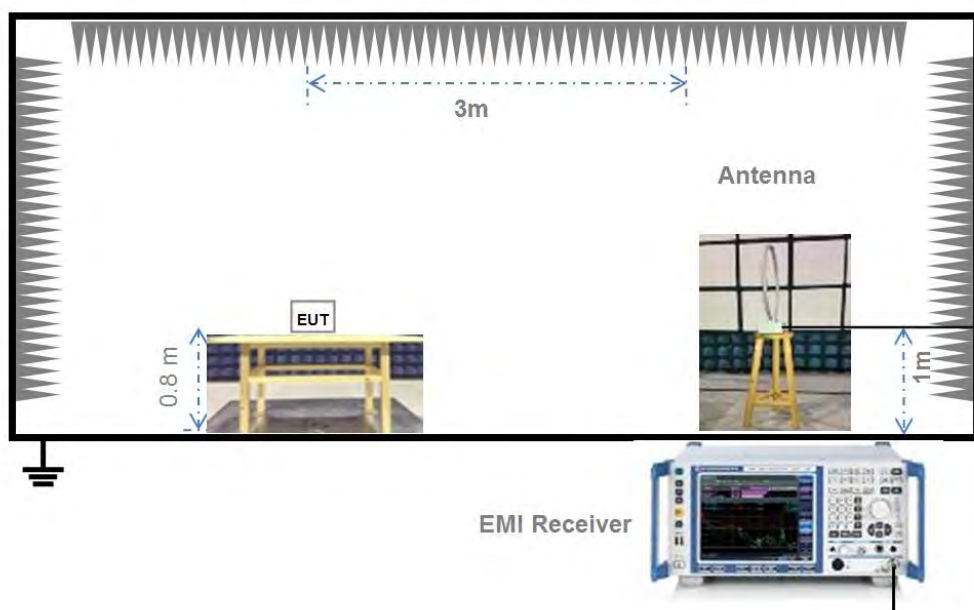
(Diagram 1)

4.5.2 For AC Power Supply Port Test



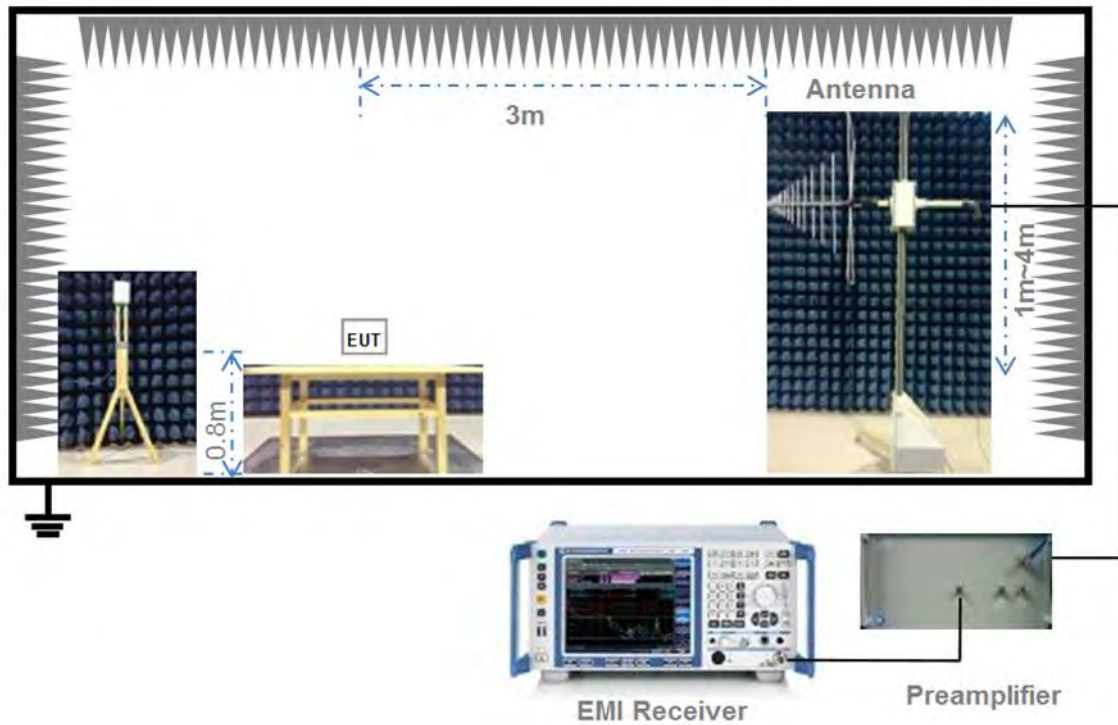
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



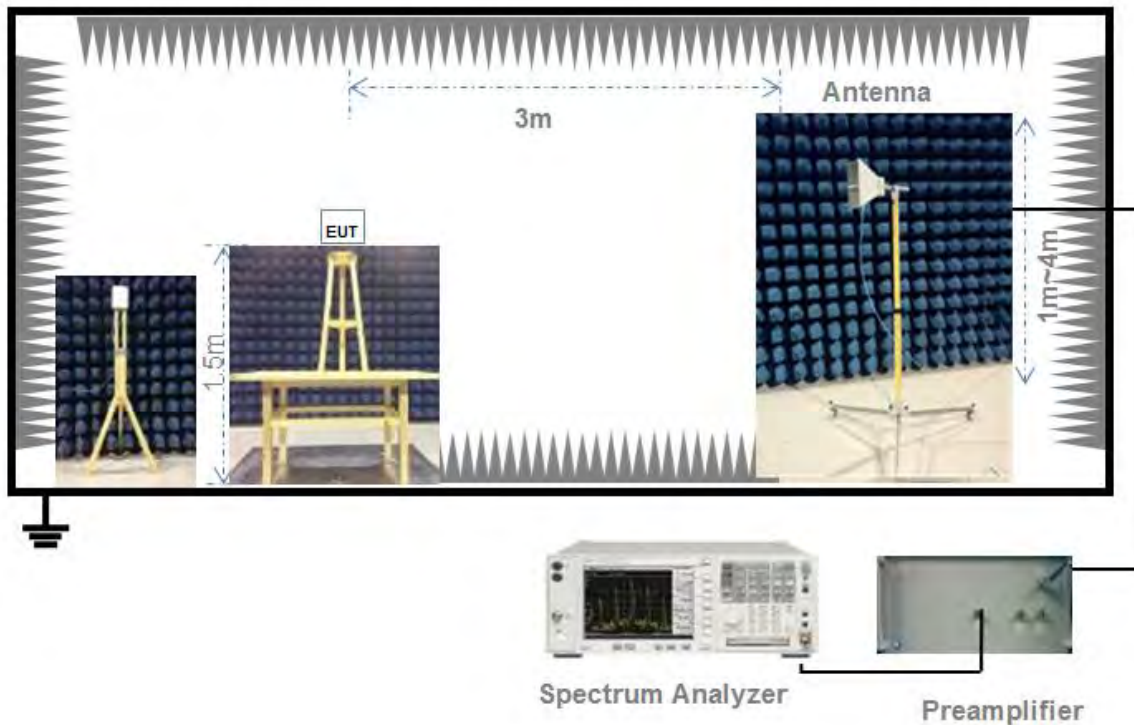
(Diagram 3)

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

Set the video bandwidth (VBW) $\geq$ 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 ($\mu\text{V}/\text{m}$)	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	8.38	8.42	99.53%	0.02
802.11g	1.39	1.43	96.86%	0.14
802.11n-20 MHz	1.30	1.34	96.58%	0.15
802.11n-40 MHz	0.64	0.69	93.66%	0.28
802.11ax-20 MHz	1.01	1.06	95.83%	0.18
802.11ax-40 MHz	0.53	0.58	92.20%	0.35

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

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.68	92.90	30	1000	Pass
Middle	19.82	95.94			Pass
High	19.78	95.06			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.94	196.79	30	1000	Pass
Middle	22.95	197.24			Pass
High	23.16	207.01			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.56	90.36	30	1000	Pass
Middle	22.91	195.43			Pass
High	19.76	94.62			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	23.22	209.89	30	1000	Pass
Middle	23.20	208.93			Pass
High	15.58	36.14			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.18	131.22	30	1000	Pass
Middle	24.90	309.03			Pass
High	20.84	121.34			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	24.58	287.08	30	1000	Pass
Middle	25.06	320.63			Pass
High	17.50	56.23			Pass

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.74	47.21	30	1000	Pass
Middle	16.79	47.75			Pass
High	16.75	47.32			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.70	46.77	30	1000	Pass
Middle	16.69	46.67			Pass
High	16.90	48.98			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	13.32	21.48	30	1000	Pass
Middle	16.68	46.56			Pass
High	13.51	22.44			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.73	47.10	30	1000	Pass
Middle	16.76	47.42			Pass
High	9.08	8.09			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	13.07	20.28	30	1000	Pass
Middle	16.79	47.75			Pass
High	12.68	18.54			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.48	44.46	30	1000	Pass
Middle	16.81	47.97			Pass
High	9.19	8.30			Pass

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

802.11b Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	21.41	138.36	36	4	Pass
Middle	21.55	142.89			Pass
High	21.51	141.58			Pass

802.11g Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	24.67	293.09	36	4	Pass
Middle	24.68	293.76			Pass
High	24.89	308.32			Pass

802.11n-20 MHz Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	21.29	134.59	36	4	Pass
Middle	24.64	291.07			Pass
High	21.49	140.93			Pass

802.11n-40 MHz Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	24.95	312.61	36	4	Pass
Middle	24.93	311.17			Pass
High	17.31	53.83			Pass

802.11ax-20 MHz(SU) Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	22.91	195.43	36	4	Pass
Middle	26.63	460.26			Pass
High	22.57	180.72			Pass

802.11ax-40 MHz(SU) Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	26.31	427.56	36	4	Pass
Middle	26.79	477.53			Pass
High	19.23	83.75			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	12.691000	≥500
Middle	8.400000	12.854000	≥500
High	8.400000	12.837000	≥500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	16.600000	17.337000	≥500
Middle	16.500000	17.261000	≥500
High	16.500000	17.207000	≥500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	17.800000	18.234000	≥500
Middle	17.800000	18.400000	≥500
High	17.700000	18.233000	≥500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	36.800000	36.428000	≥500
Middle	36.800000	36.493000	≥500
High	36.600000	36.398000	≥500

802.11ax-20 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	19.000000	18.995000	≥500
Middle	19.000000	19.231000	≥500
High	19.000000	19.132000	≥500

802.11ax-40 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	38.200000	37.784000	≥ 500
Middle	38.400000	37.794000	≥ 500
High	38.400000	37.788000	≥ 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) MIDDLE CHANNEL



802.11ax-40 MHz(SU) LOW CHANNEL

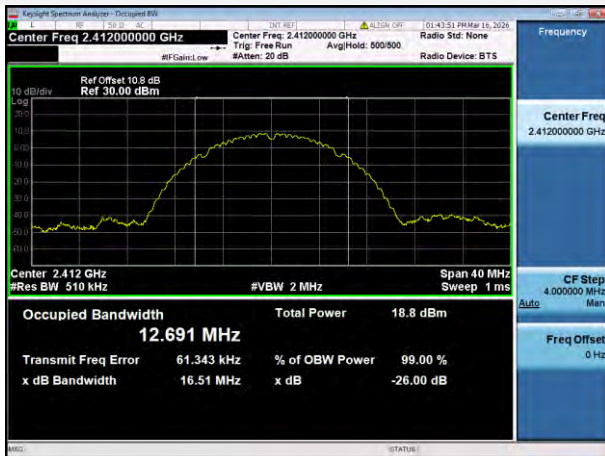


802.11ax-40 MHz(SU) HIGH CHANNEL



99% Bandwidth

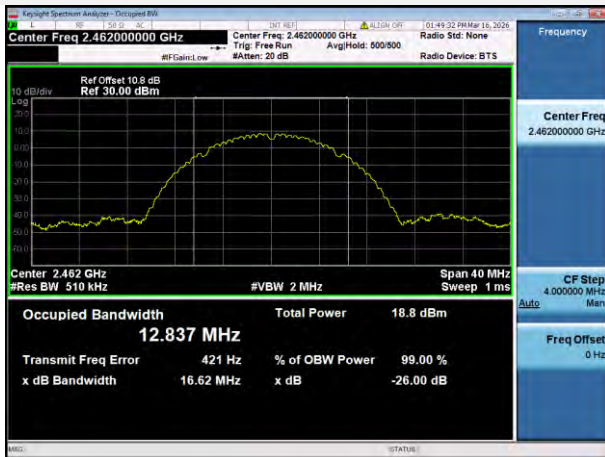
802.11b LOW CHANNEL



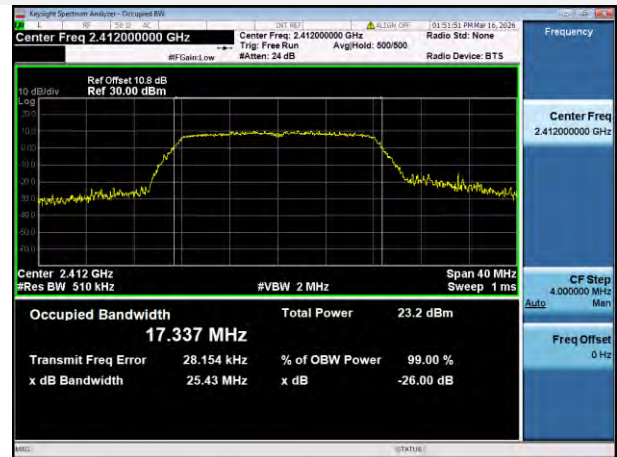
802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



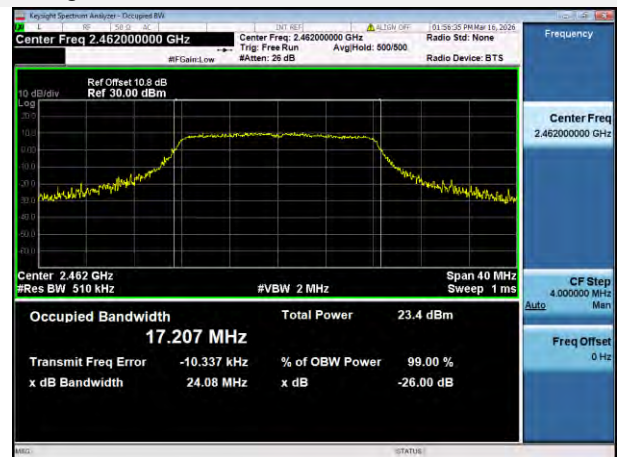
802.11g LOW CHANNEL



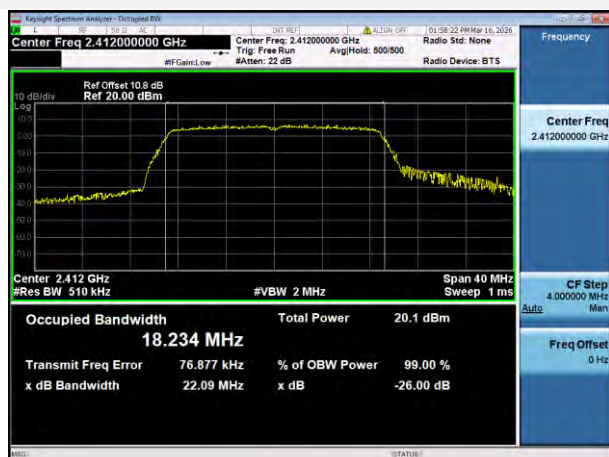
802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



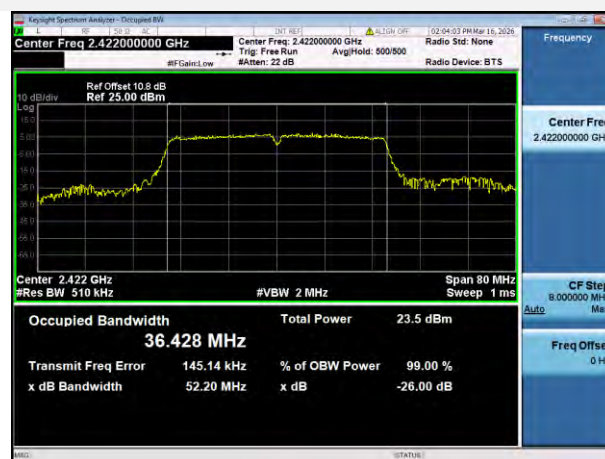
802.11n-20 MHz MIDDLE CHANNEL



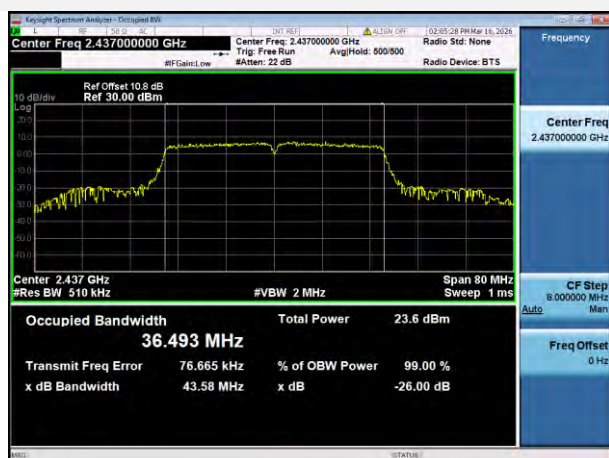
802.11n-20 MHz HIGH CHANNEL



802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



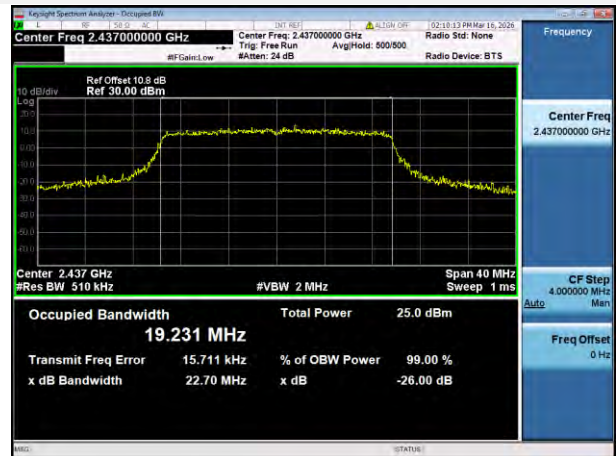
802.11n-40 MHz HIGH CHANNEL



802.11ax-20 MHz(SU) LOW CHANNEL



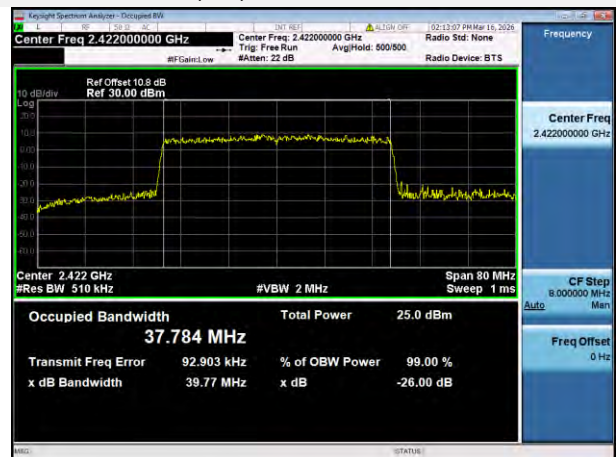
802.11ax-20 MHz(SU) MIDDLE CHANNEL



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	-37.72	8.46	-11.54	Pass
Middle	-38.72	8.56	-11.44	Pass
High	-35.60	8.54	-11.46	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-38.64	6.16	-13.84	Pass
Middle	-38.07	5.83	-14.17	Pass
High	-36.96	6.27	-13.73	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-37.67	2.56	-17.44	Pass
Middle	-38.81	6.49	-13.51	Pass
High	-38.41	3.34	-16.66	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-38.37	3.17	-16.83	Pass
Middle	-37.93	3.22	-16.78	Pass
High	-38.96	-4.38	-24.38	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	-35.55	2.81	-17.19	Pass
Middle	-38.51	6.32	-13.68	Pass
High	-38.32	2.25	-17.75	Pass

802.11ax-40 MHz(SU) Mode:

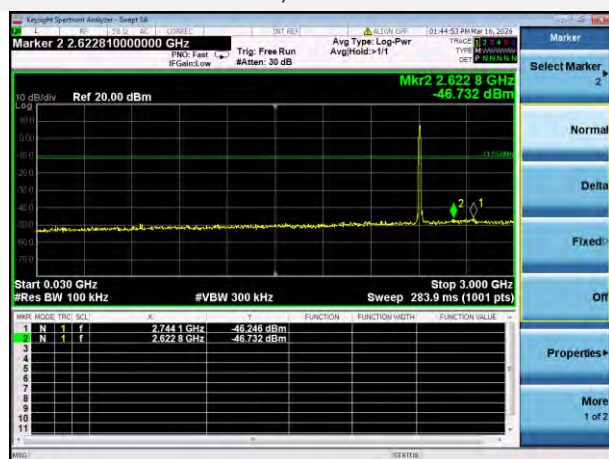
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.19	2.65	-17.35	Pass
Middle	-37.48	3.10	-16.90	Pass
High	-38.46	-4.26	-24.26	Pass

Test Plots

802.11b LOW CHANNEL CARRIER LEVEL



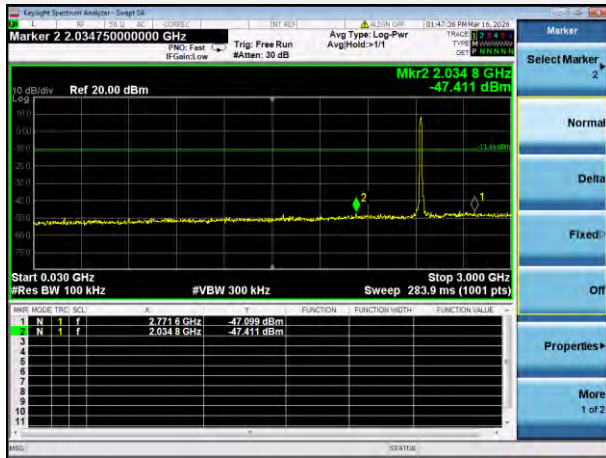
802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz 802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



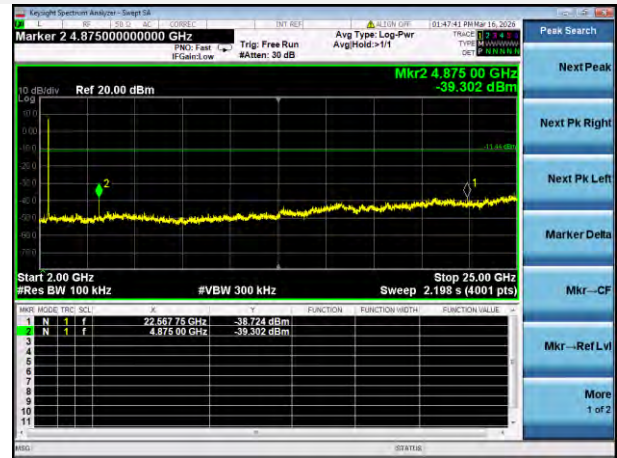
802.11b MIDDLE CHANNEL CARRIER LEVEL



802.11b MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



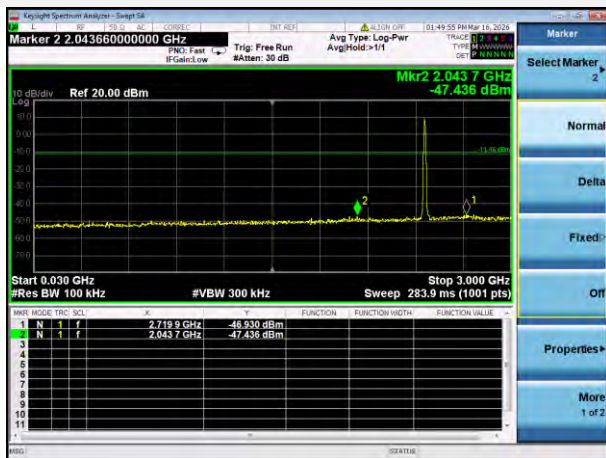
802.11b MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



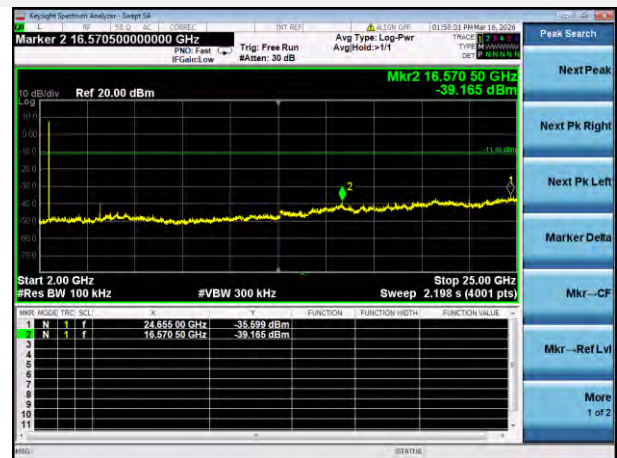
802.11b HIGH CHANNEL CARRIER LEVEL



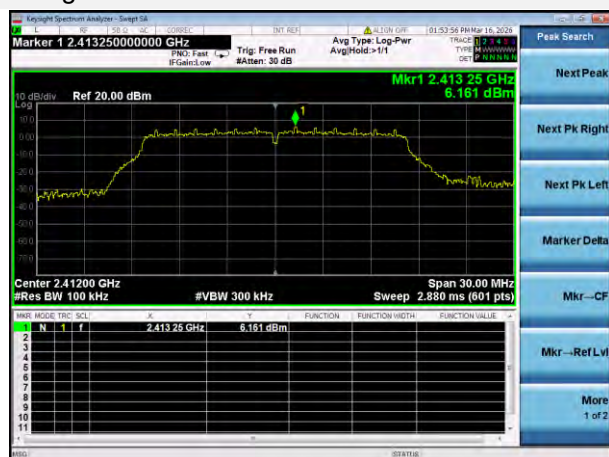
802.11b HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



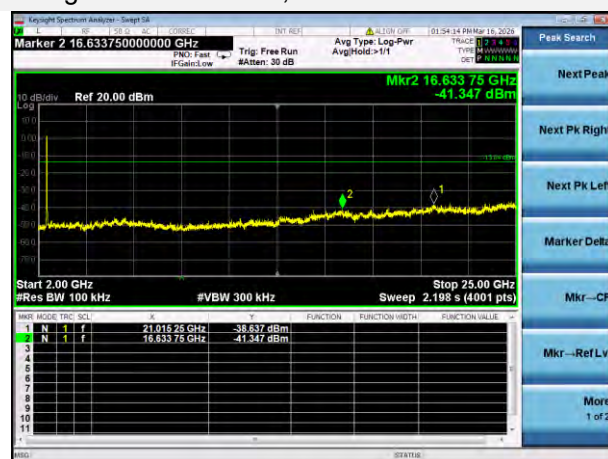
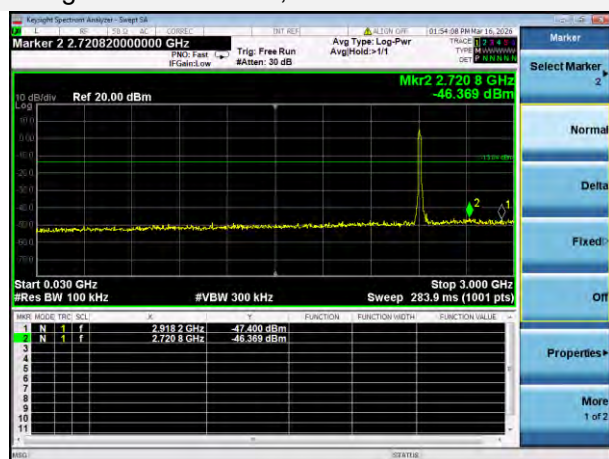
802.11b HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



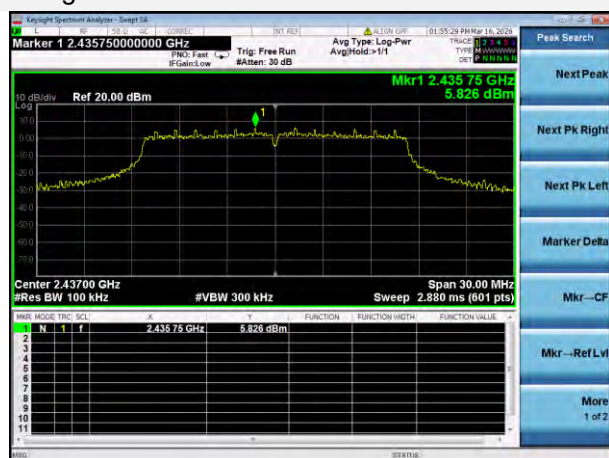
802.11g LOW CHANNEL CARRIER LEVEL



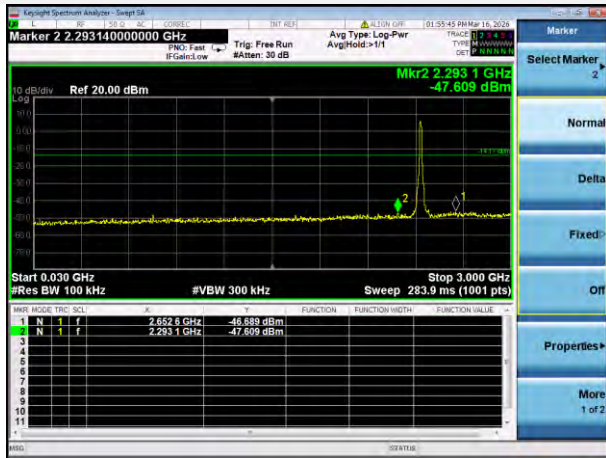
802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz 802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



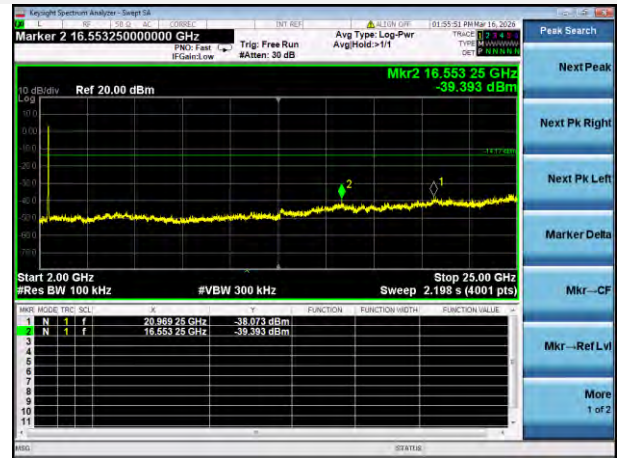
802.11g MIDDLE CHANNEL CARRIER LEVEL



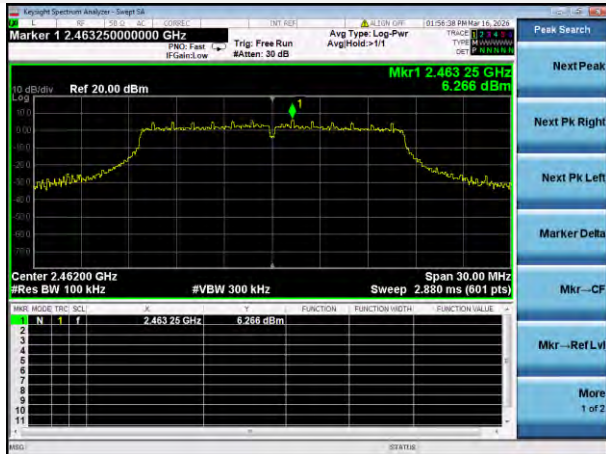
802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



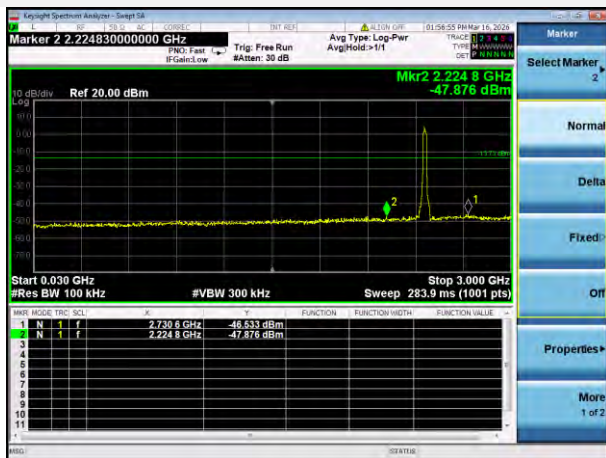
802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



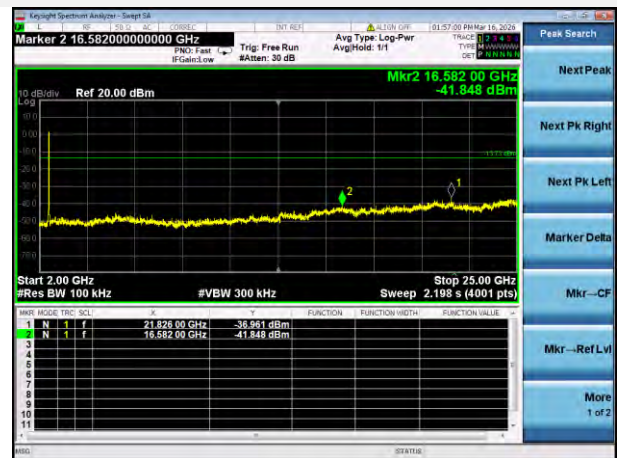
802.11g HIGH CHANNEL CARRIER LEVEL



802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



Keysight Spectrum Analyzer - Setup 00

Marker 1 2.413300000000 GHz

Ref 20.00 dBm

Trig: Free Run

Avg Type: Log-Pwr

Span 30.00 MHz

Center 2.41200 GHz

Res BW 100 kHz

#VBW 300 kHz

Sweep 2.880 ms (801 pts)

Mkr1 2.413 30 GHz

2.563 dBm

MNR	MODE	TRAC	SCL	F	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	1	1	1	2.413 30 GHz	2.563 dBm	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

[illegible][illegible]

Keylight Spectrum Analyzer - Sweep 54

Marker 1 2.438300000000 GHz

Ref 20.00 dBm

Mkr1 2.438 30 GHz 6.486 dBm

Center 2.43700 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 30.00 MHz

Sweep 2.880 ms (601 pts)

UNIT MODE TRIG: SCL

X 2.438 30 GHz

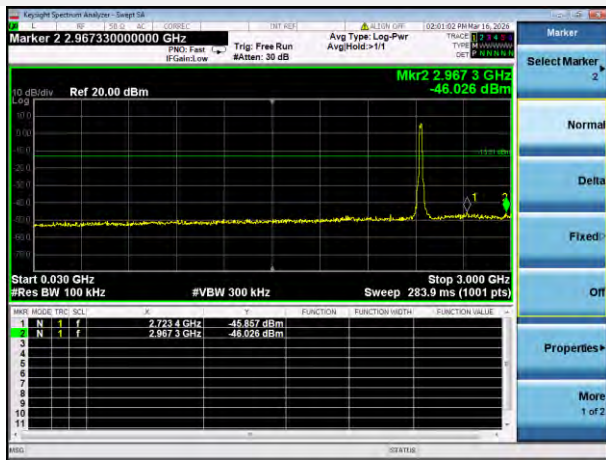
Y 6.486 dBm

FUNCTION FUNCTION WIDTH FUNCTION VALUE

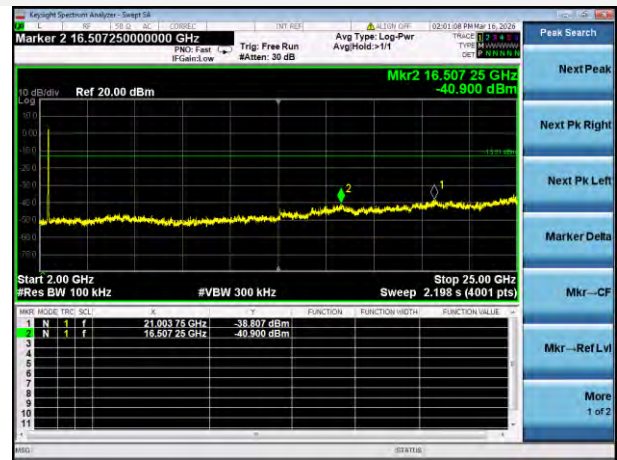
N	F	F
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

More 1 of 2

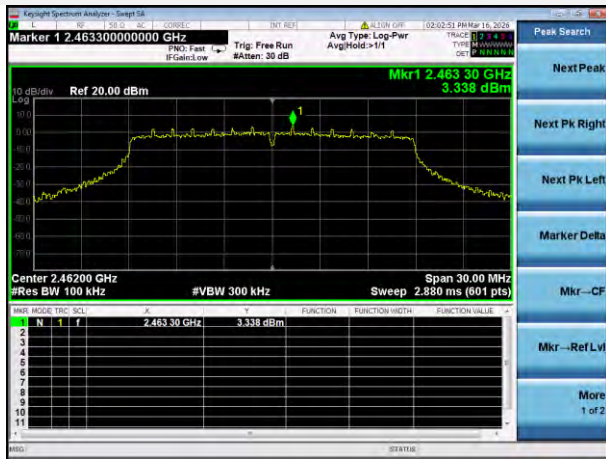
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



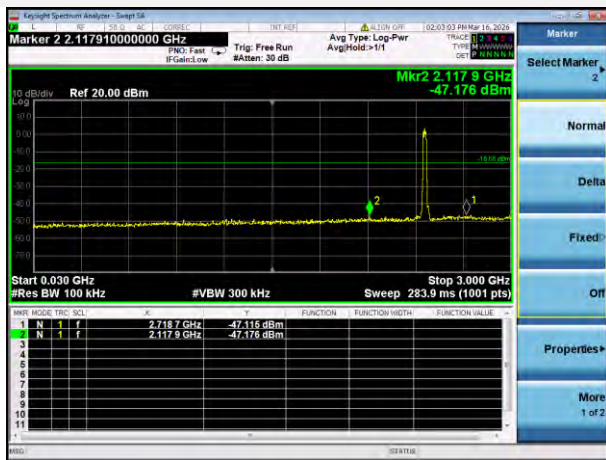
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



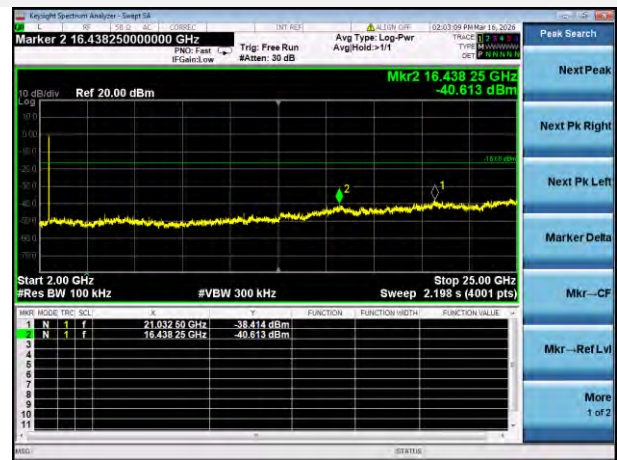
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



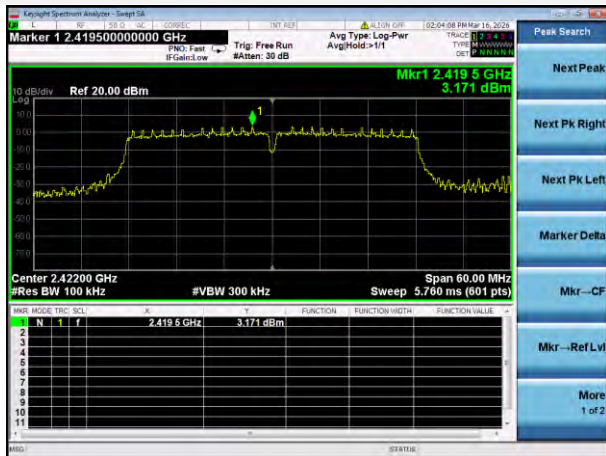
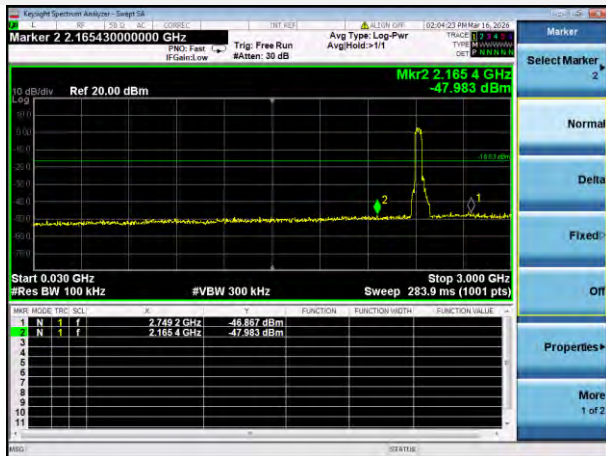
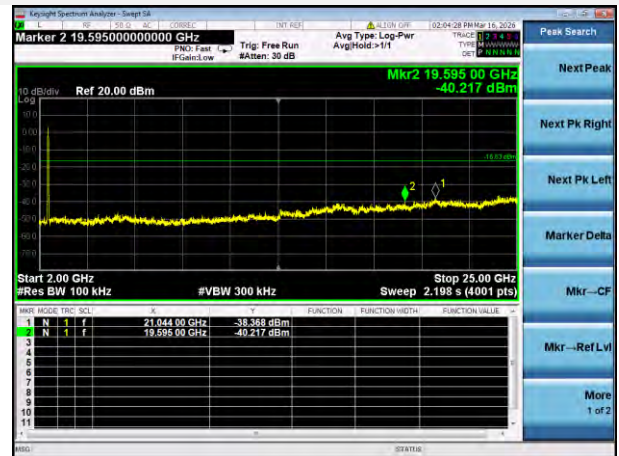
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



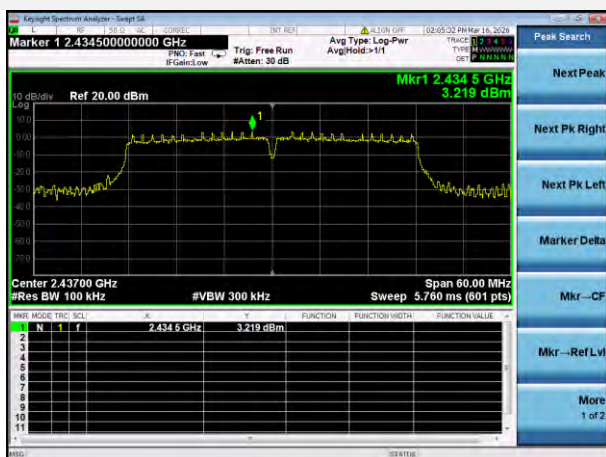
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



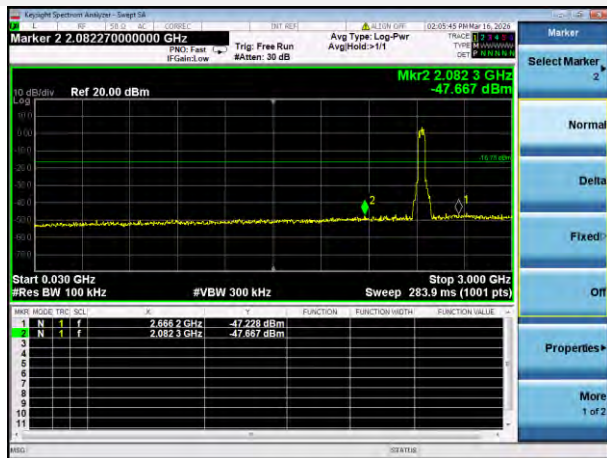
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

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

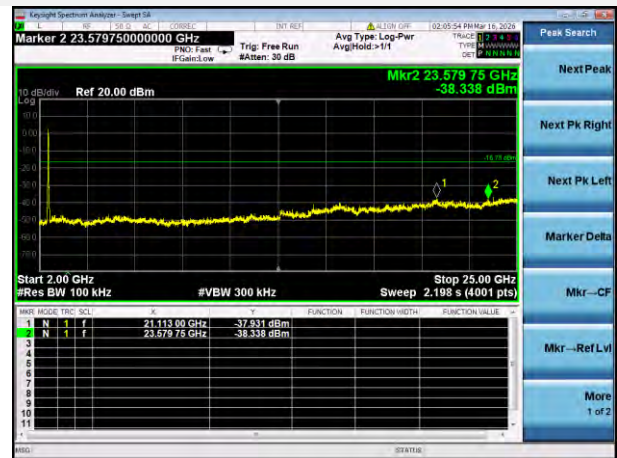
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



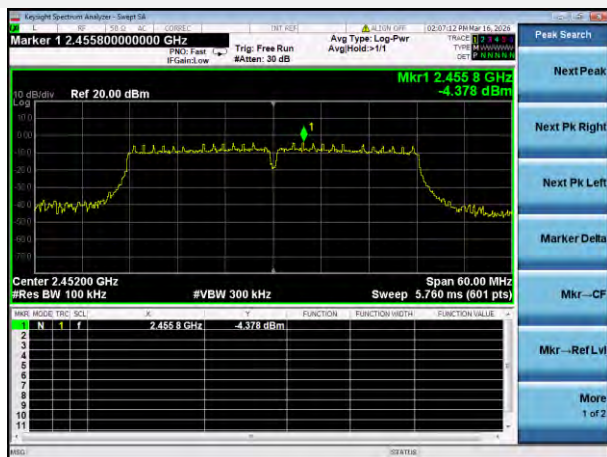
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



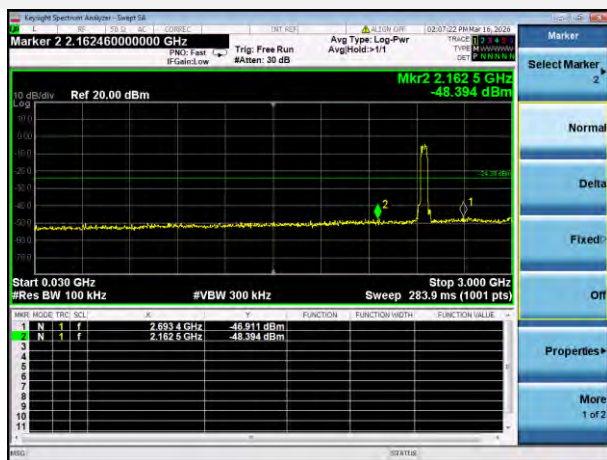
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



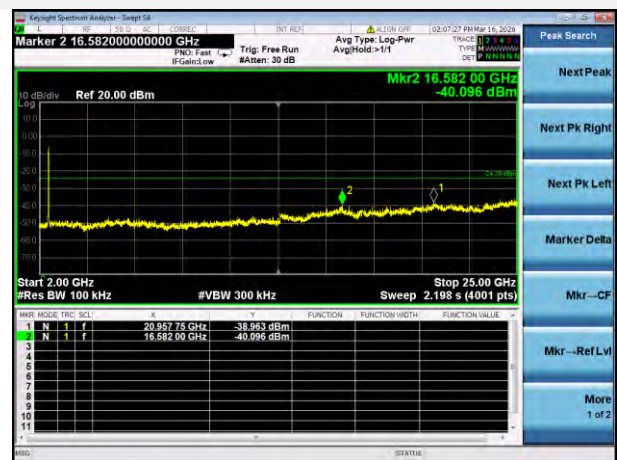
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



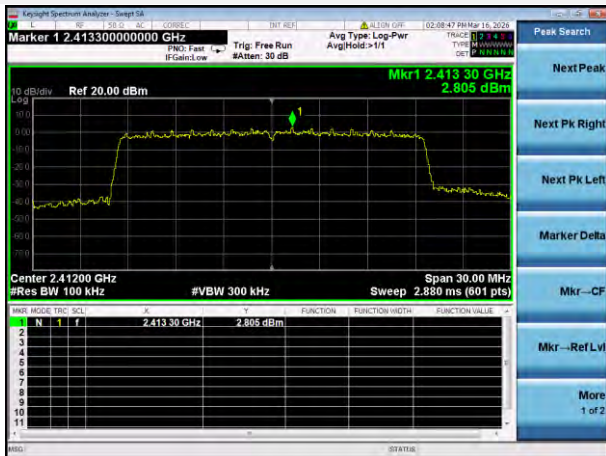
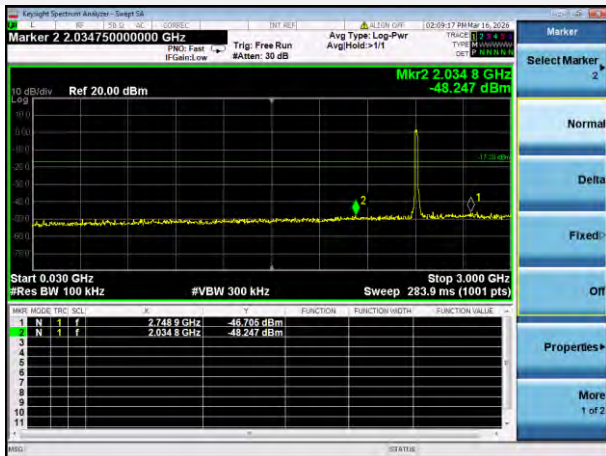
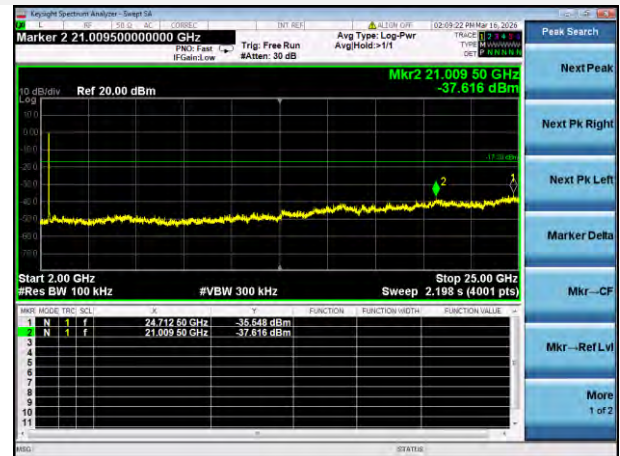
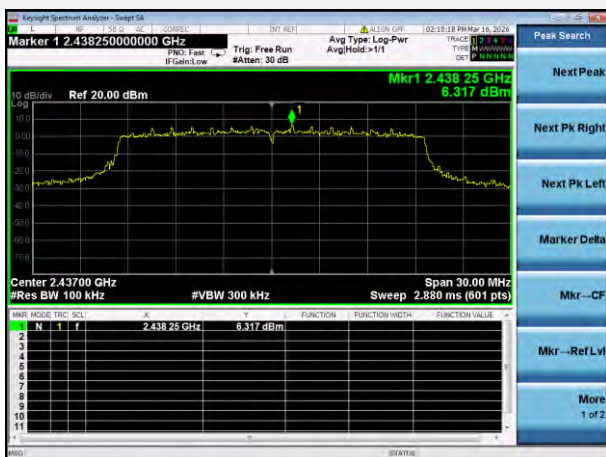
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



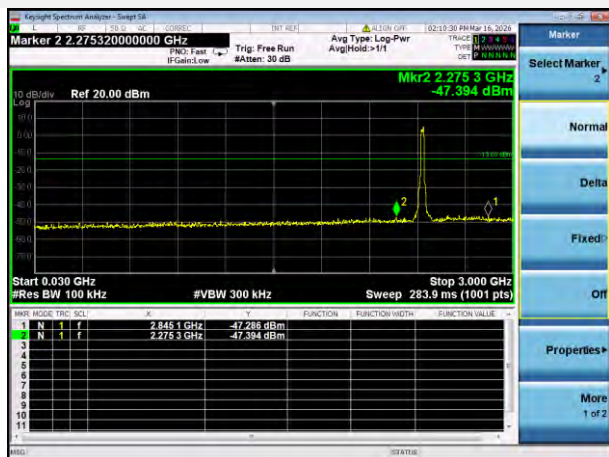
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



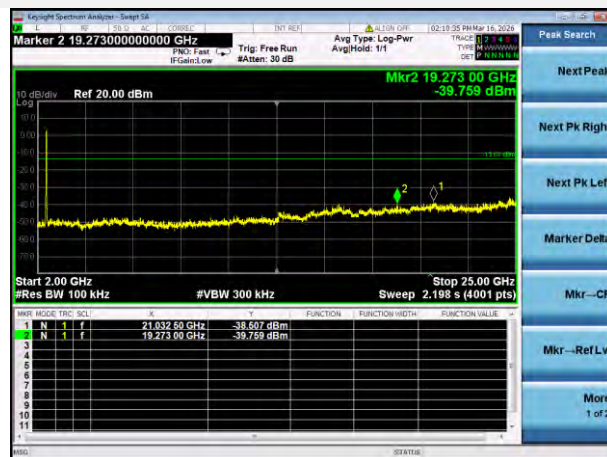
802.11ax-20 MHz(SU) LOW CHANNEL CARRIER LEVEL

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

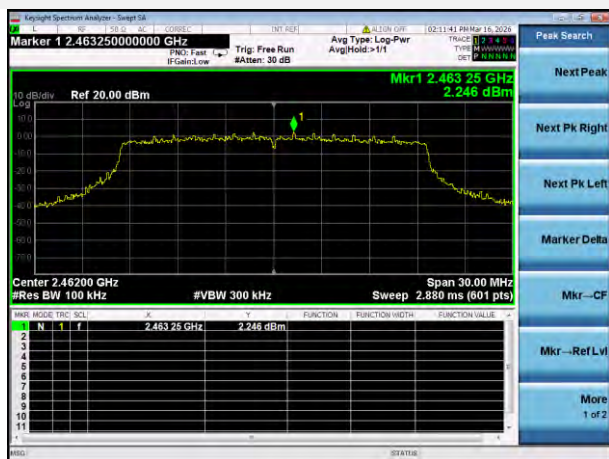
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



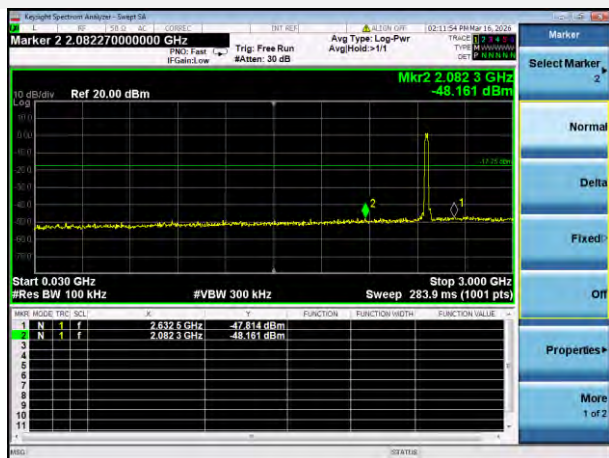
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



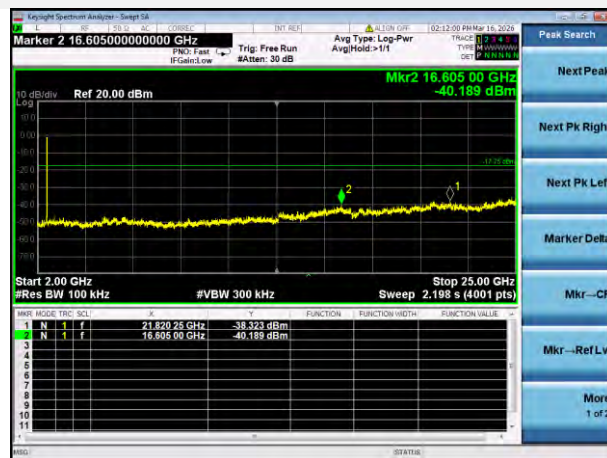
802.11ax-20 MHz(SU) HIGH CHANNEL CARRIER LEVEL



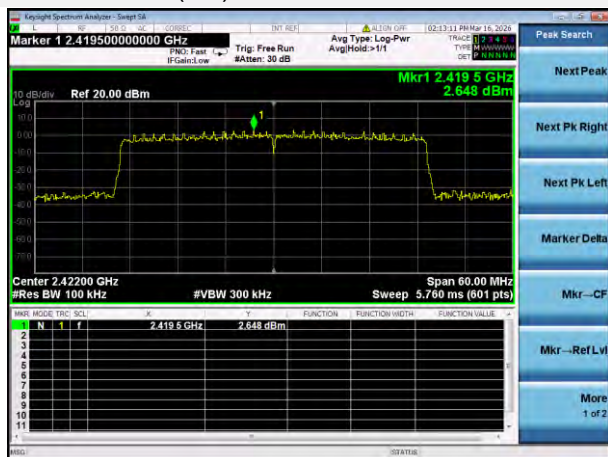
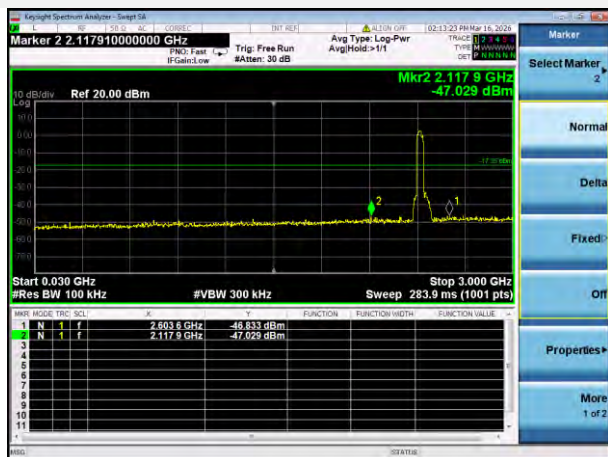
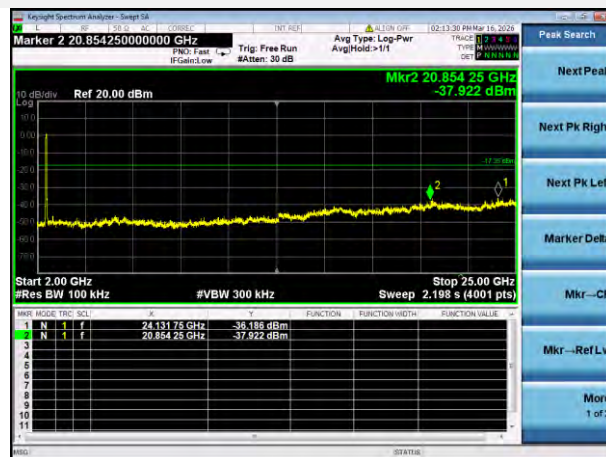
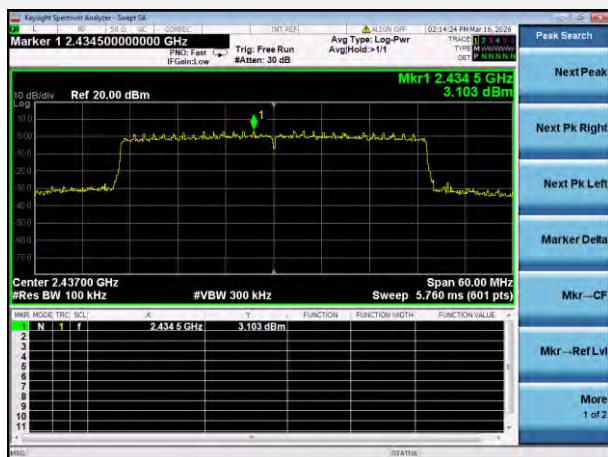
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



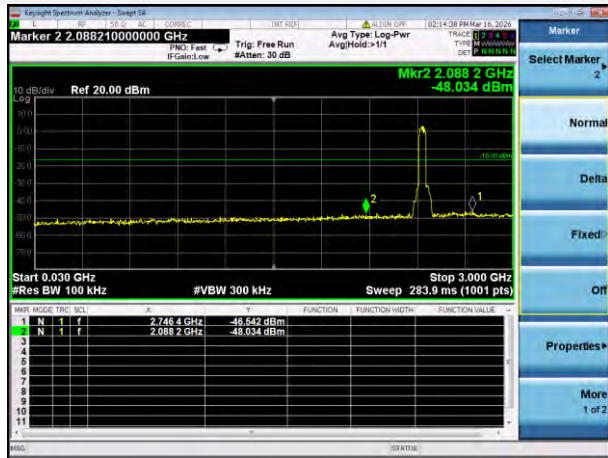
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



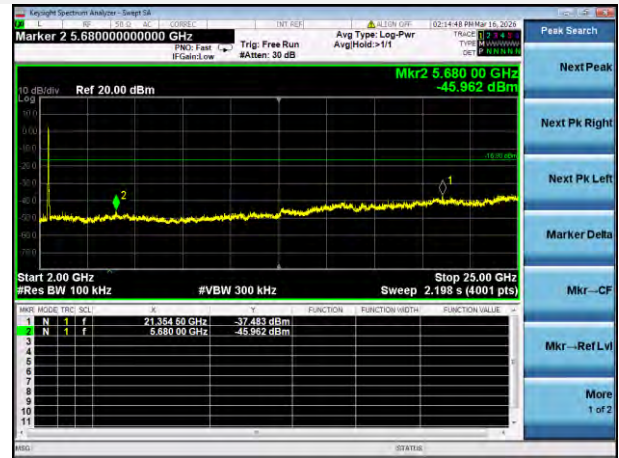
802.11ax-40 MHz(SU) LOW CHANNEL CARRIER LEVEL

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

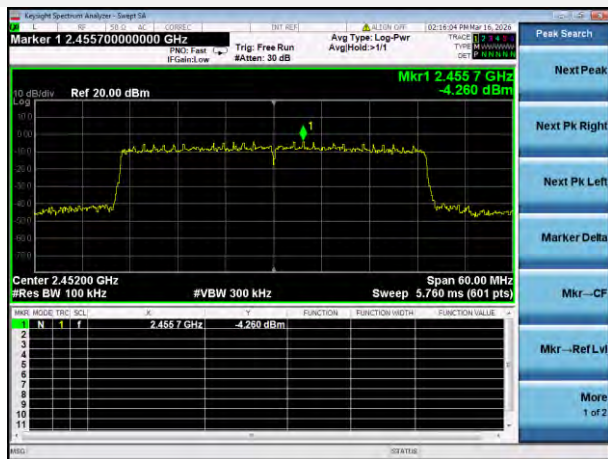
802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



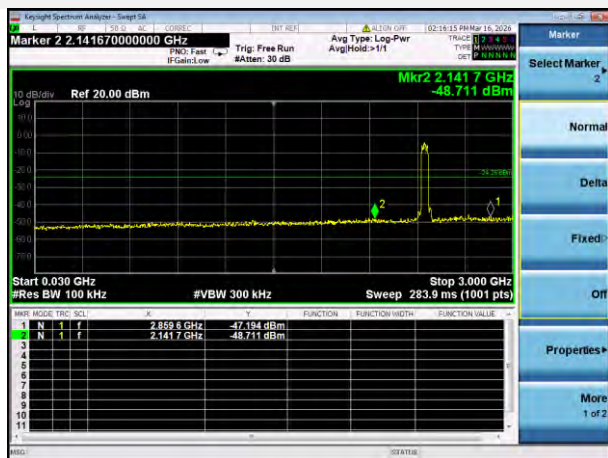
802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



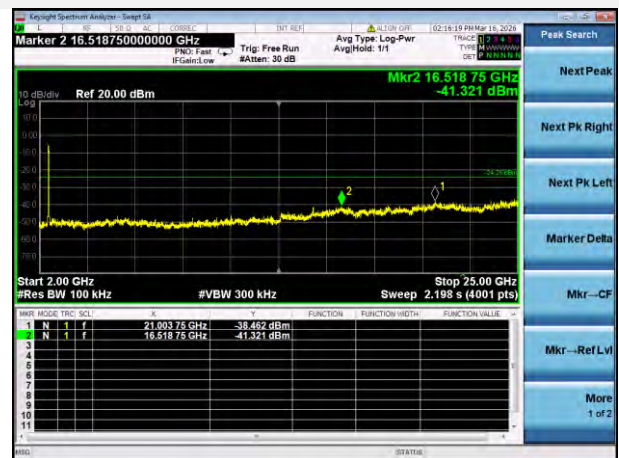
802.11ax-40 MHz(SU) HIGH CHANNEL CARRIER LEVEL



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	-43.18	8.46	-11.54	Pass
High Channel	-48.44	8.54	-11.46	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-31.39	6.16	-13.84	Pass
High Channel	-36.17	6.27	-13.73	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-36.77	2.56	-17.44	Pass
High Channel	-41.53	3.34	-16.66	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-28.82	3.17	-16.83	Pass
High Channel	-39.82	-4.38	-24.38	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	-39.41	2.81	-17.19	Pass
High Channel	-41.50	2.25	-17.75	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	-32.08	2.65	-17.35	Pass
High Channel	-40.47	-4.26	-24.26	Pass

Test Plots

802.11b LOW CHANNEL, CARRIER LEVEL



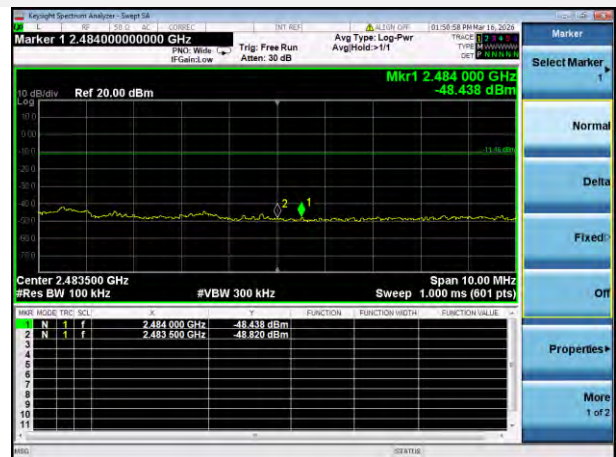
802.11b LOW CHANNEL, BAND EDGE



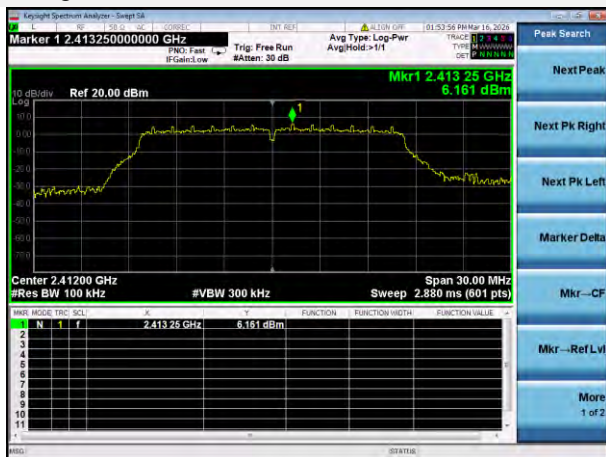
802.11b HIGH CHANNEL, CARRIER LEVEL



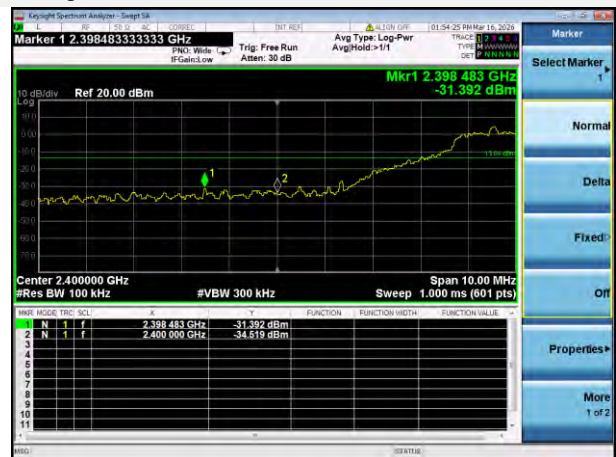
802.11b HIGH CHANNEL, BAND EDGE



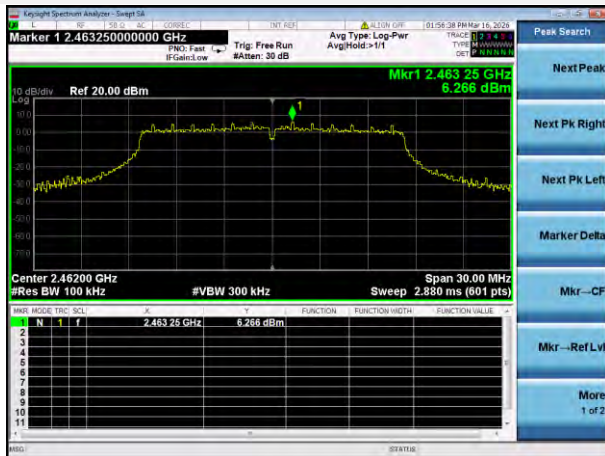
802.11g LOW CHANNEL, CARRIER LEVEL



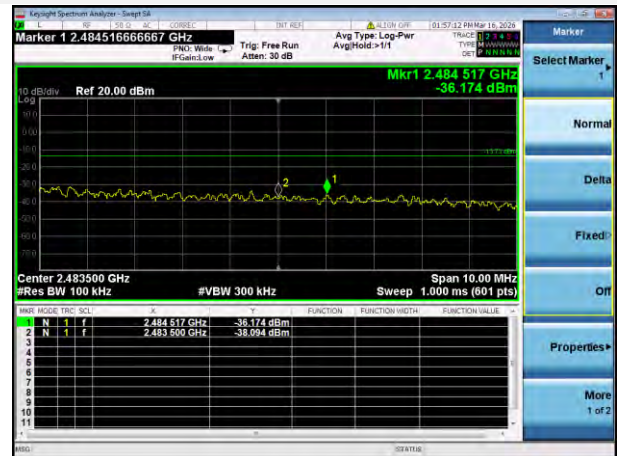
802.11g LOW CHANNEL, BAND EDGE



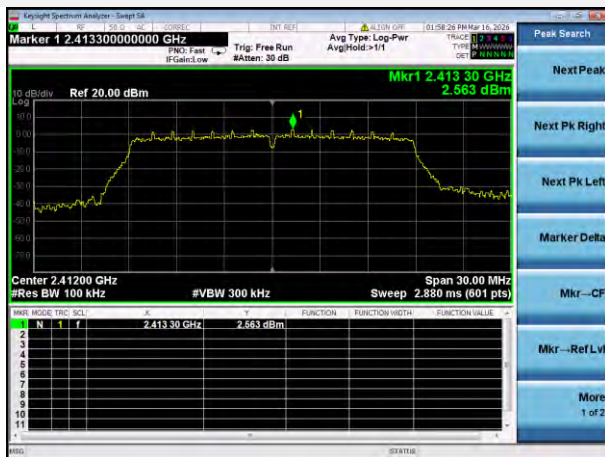
802.11g HIGH CHANNEL, CARRIER LEVEL



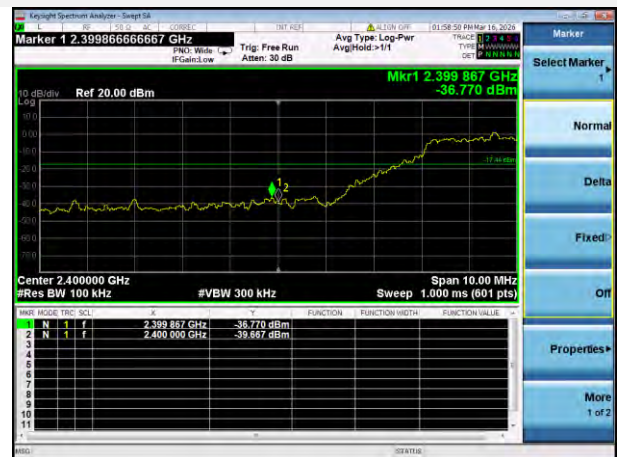
802.11g HIGH CHANNEL, BAND EDGE



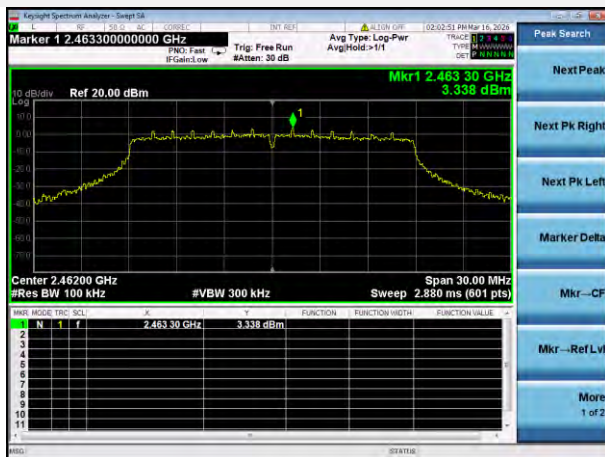
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



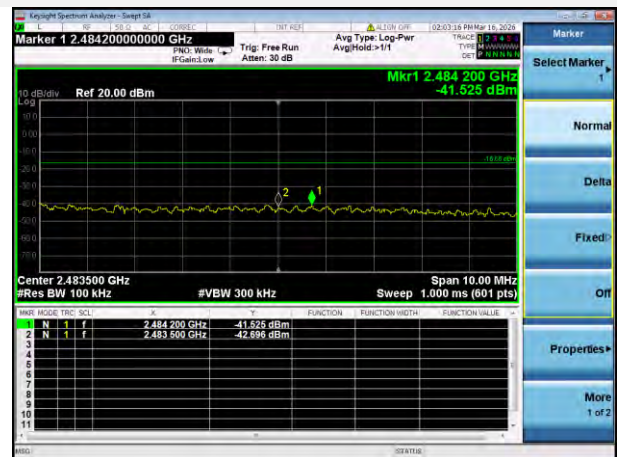
802.11n-20 MHz LOW CHANNEL, BAND EDGE



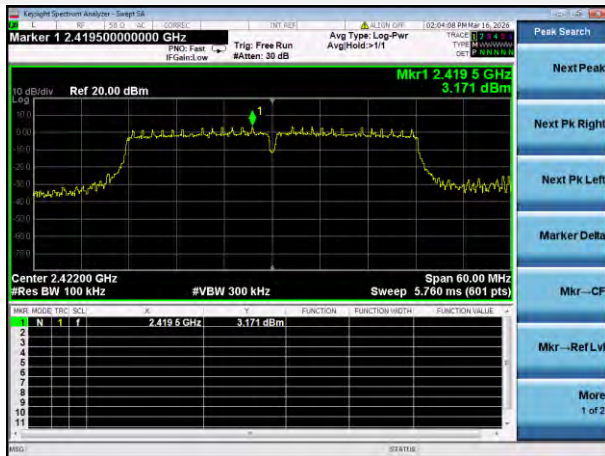
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



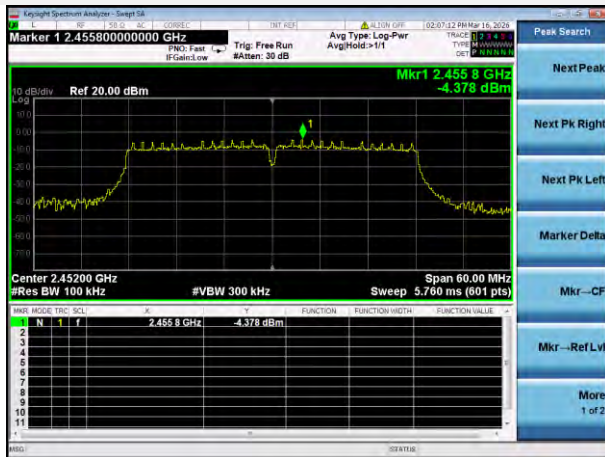
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



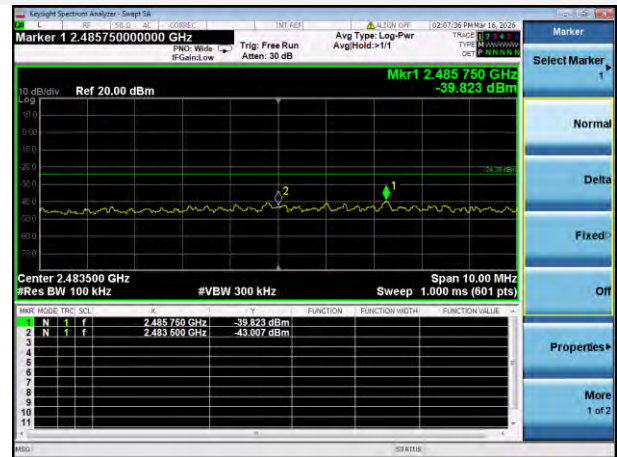
802.11n-40 MHz LOW CHANNEL, BAND EDGE



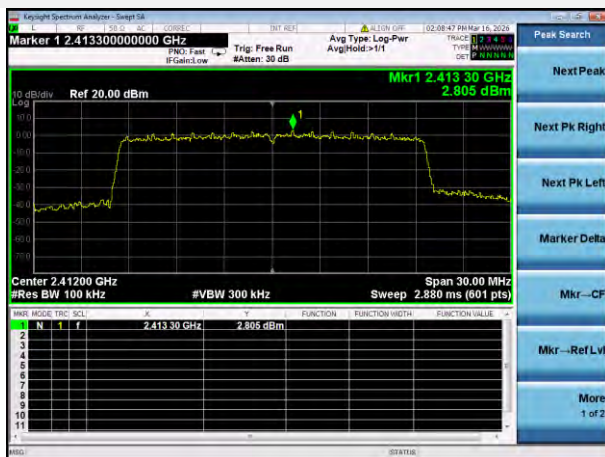
802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



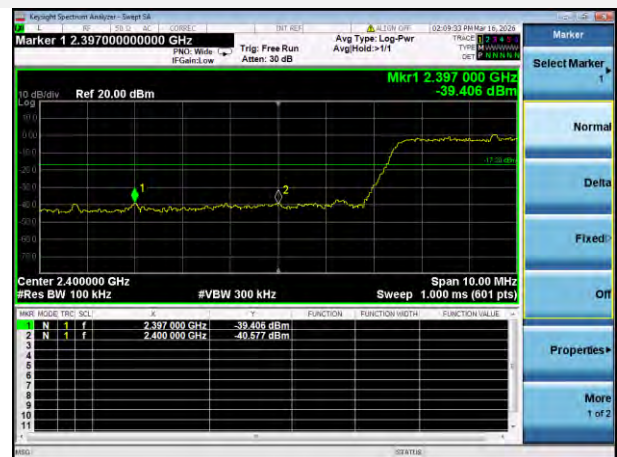
802.11n-40 MHz HIGH CHANNEL, BAND EDGE



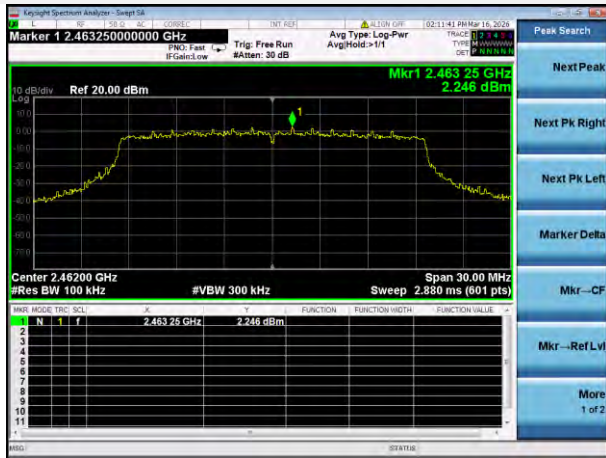
802.11ax-20 MHz(SU) LOW CHANNEL, CARRIER LEVEL



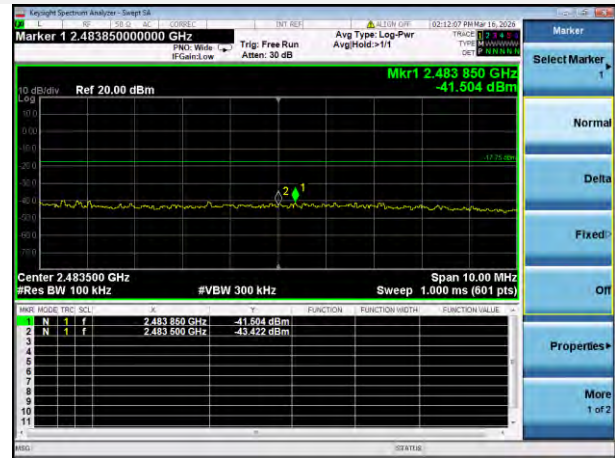
802.11ax-20 MHz(SU) LOW CHANNEL, BAND EDGE



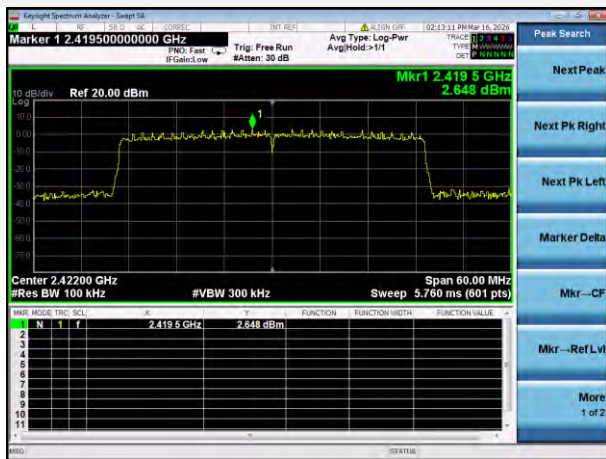
802.11ax-20 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



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



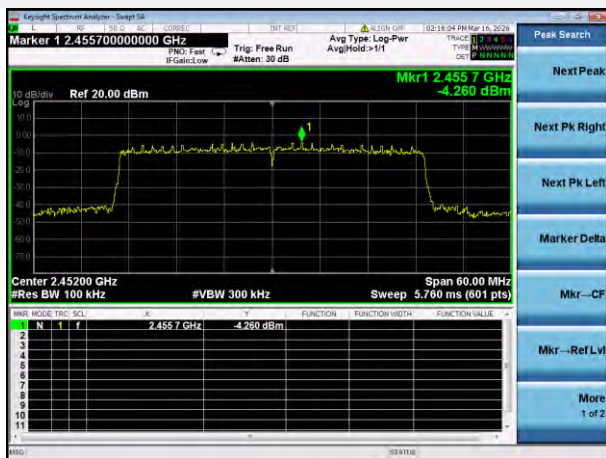
802.11ax-40 MHz(SU) LOW CHANNEL, CARRIER LEVEL



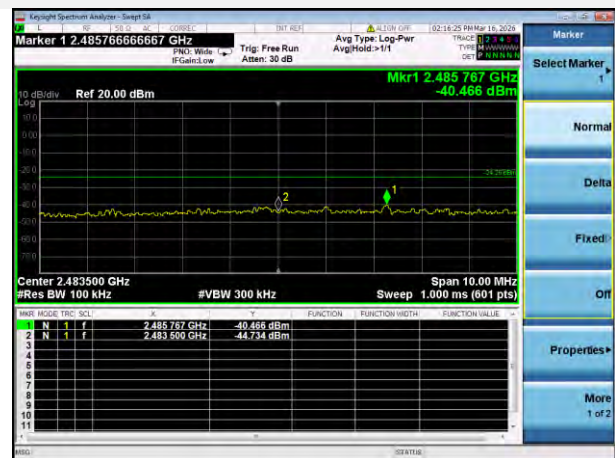
802.11ax-40 MHz(SU) LOW CHANNEL, BAND EDGE



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.

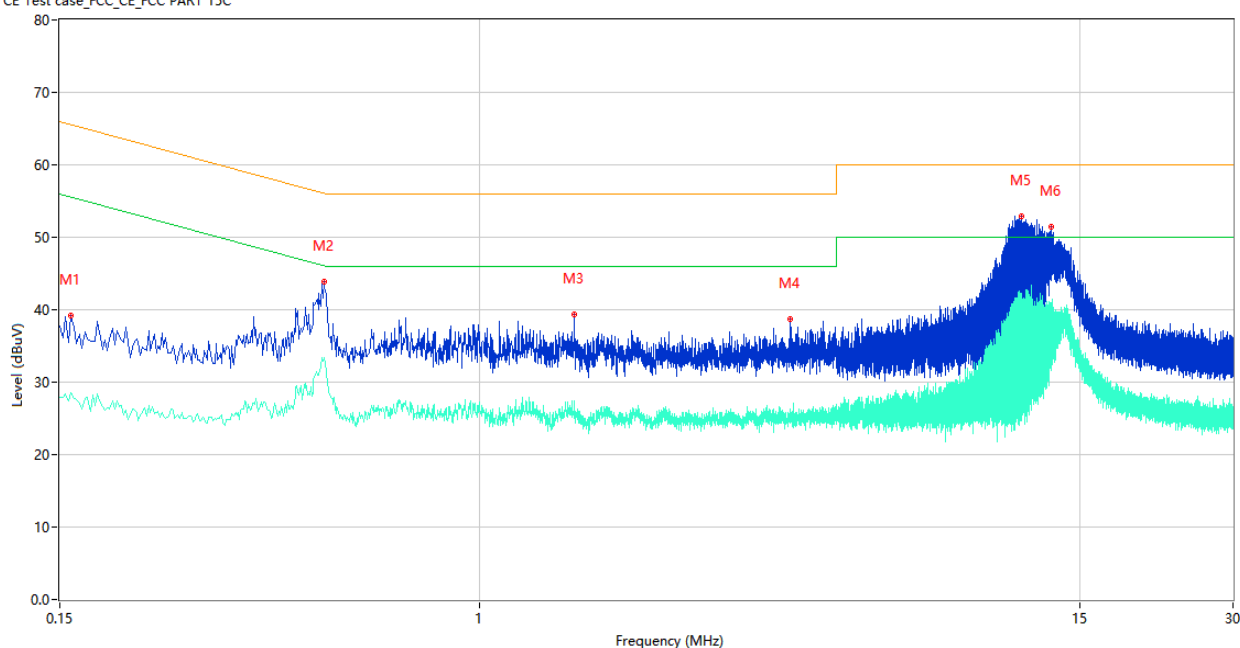
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

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

Test Data and Plots

PHASE L

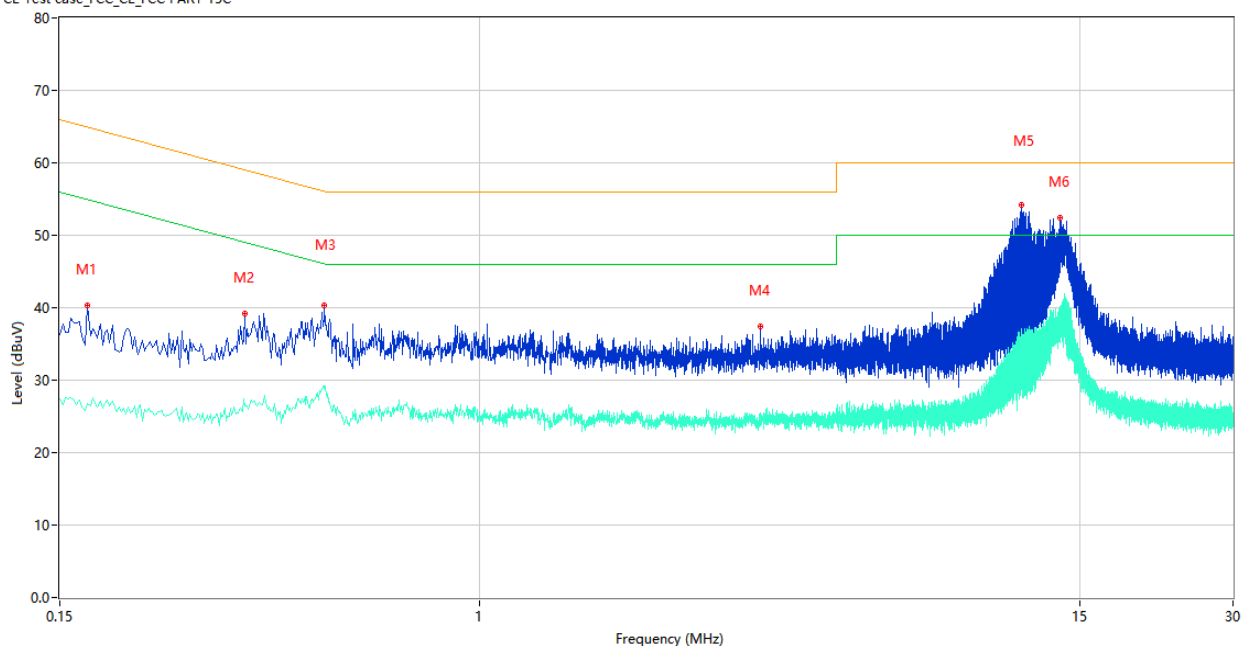
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.158	39.20	9.86	65.57	26.37	Peak	L	Pass
1**	0.158	28.62	9.86	55.57	26.95	AV	L	Pass
2	0.494	43.95	10.05	56.10	12.15	Peak	L	Pass
2**	0.494	33.18	10.05	46.10	12.92	AV	L	Pass
3	1.534	39.32	10.25	56.00	16.68	Peak	L	Pass
3**	1.534	27.10	10.25	46.00	18.90	AV	L	Pass
4	4.066	38.76	10.43	56.00	17.24	Peak	L	Pass
4**	4.066	25.42	10.43	46.00	20.58	AV	L	Pass
5	11.556	52.87	10.71	60.00	7.13	Peak	L	Pass
5**	11.556	42.21	10.71	50.00	7.79	AV	L	Pass
6	13.206	51.48	10.84	60.00	8.52	Peak	L	Pass
6**	13.206	40.32	10.84	50.00	9.68	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	0.170	40.34	9.85	64.96	24.62	Peak	N	Pass
1**	0.170	26.83	9.85	54.96	28.13	AV	N	Pass
2	0.346	39.26	10.74	59.06	19.80	Peak	N	Pass
2**	0.346	26.39	10.74	49.06	22.67	AV	N	Pass
3	0.496	40.25	10.04	56.07	15.82	Peak	N	Pass
3**	0.496	28.82	10.04	46.07	17.25	AV	N	Pass
4	3.544	37.38	10.26	56.00	18.62	Peak	N	Pass
4**	3.544	24.27	10.26	46.00	21.73	AV	N	Pass
5	11.560	54.23	10.67	60.00	5.77	Peak	N	Pass
5**	11.560	37.09	10.67	50.00	12.91	AV	N	Pass
6	13.732	52.38	10.49	60.00	7.62	Peak	N	Pass
6**	13.732	37.05	10.49	50.00	12.95	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.

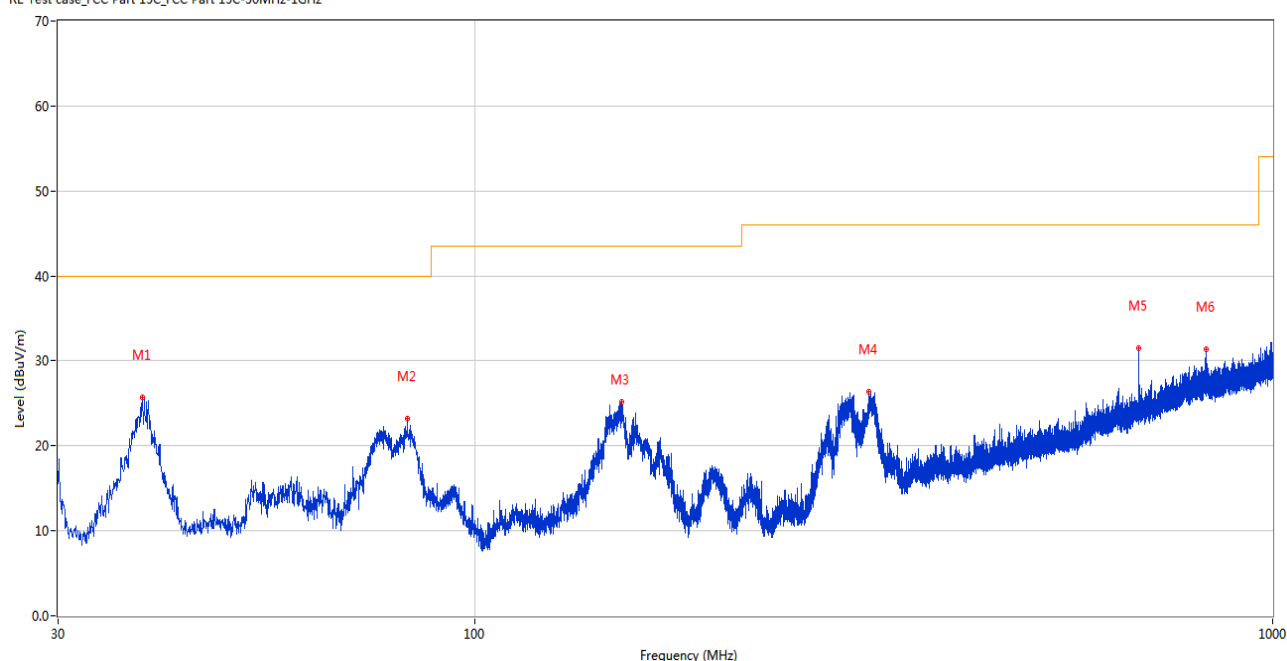
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

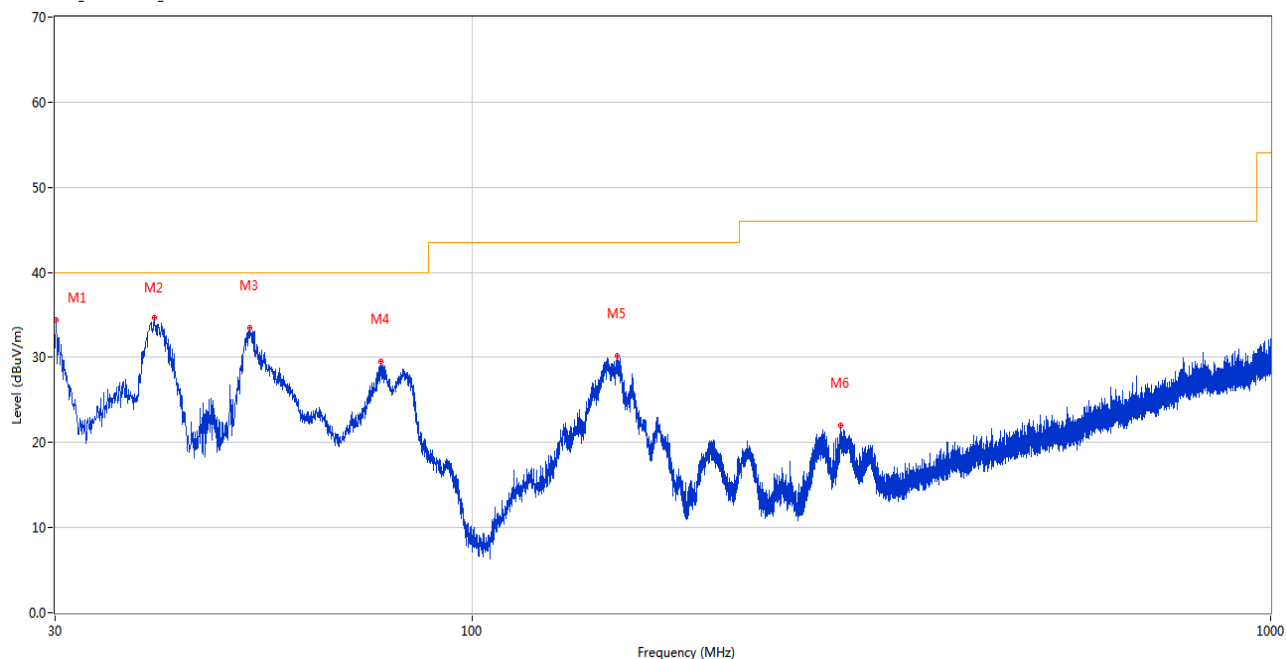
RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	38.245	25.73	-25.97	40.0	14.27	Peak	360.00	100	Horizontal	Pass
2	82.234	23.25	-29.57	40.0	16.75	Peak	0.00	100	Horizontal	Pass
3	152.705	25.19	-23.99	43.5	18.31	Peak	249.00	100	Horizontal	Pass
4	312.027	26.34	-22.37	46.0	19.66	Peak	80.00	100	Horizontal	Pass
5	679.997	31.52	-12.87	46.0	14.48	Peak	222.00	100	Horizontal	Pass
6	825.545	31.31	-9.44	46.0	14.69	Peak	115.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.049	34.40	-27.08	40.0	5.60	Peak	116.00	100	Vertical	Pass
2	39.991	34.67	-25.68	40.0	5.33	Peak	250.00	100	Vertical	Pass
3	52.650	33.53	-25.12	40.0	6.47	Peak	322.00	100	Vertical	Pass
4	76.851	29.48	-28.37	40.0	10.52	Peak	133.00	100	Vertical	Pass
5	151.929	30.16	-24.00	43.5	13.34	Peak	250.00	100	Vertical	Pass
6	289.378	22.00	-23.19	46.0	24.00	Peak	70.00	100	Vertical	Pass

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

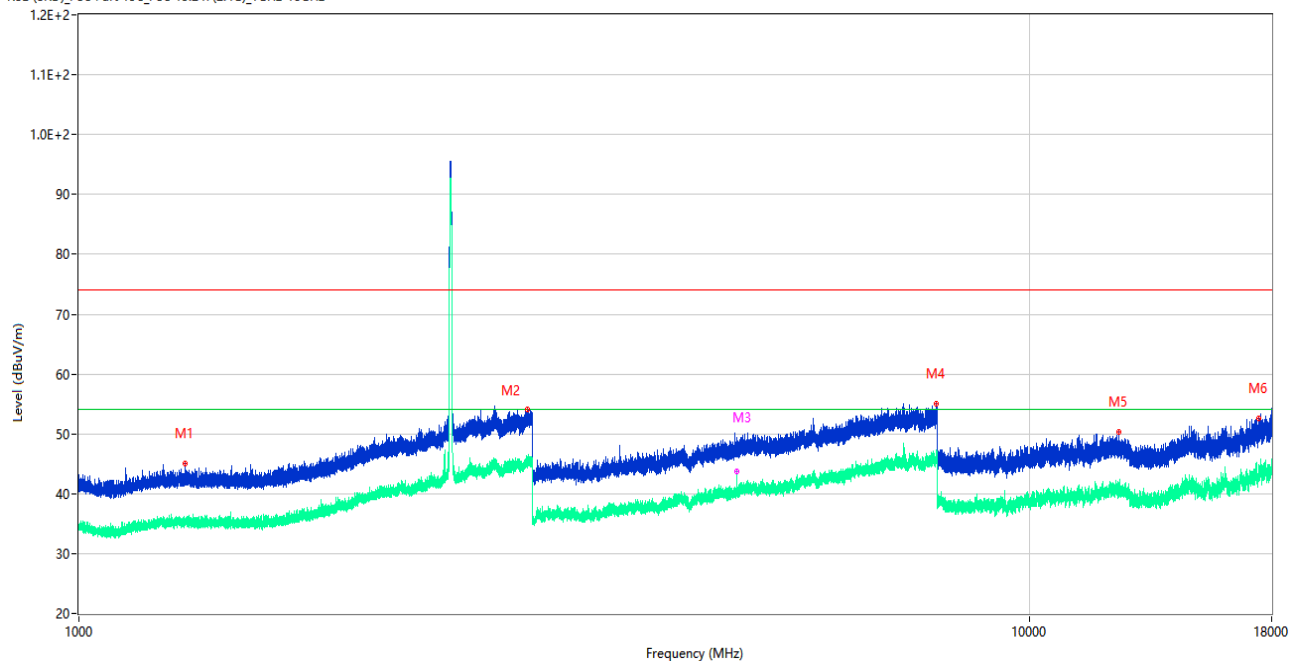
Note ²: The spurious above 18G is noise only, do not show on the report.

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	1370.373	45.82	74.0	28.18	Peak	304.00	300	Horizontal	Pass
1**	1370.373	36.31	54.0	17.69	AV	304.00	300	Horizontal	Pass
2	2755.310	54.09	74.0	19.91	Peak	166.00	200	Horizontal	Pass
2**	2755.310	44.36	54.0	9.64	AV	166.00	200	Horizontal	Pass
3	4983.837	50.64	74.0	23.36	Peak	211.00	200	Horizontal	Pass
3**	4983.837	42.20	54.0	11.80	AV	211.00	200	Horizontal	Pass
4	7902.489	56.28	74.0	17.72	Peak	163.00	200	Horizontal	Pass
4**	7902.489	46.35	54.0	7.65	AV	163.00	200	Horizontal	Pass
5	12383.969	51.30	74.0	22.70	Peak	77.00	400	Horizontal	Pass
5**	12383.969	40.94	54.0	13.06	AV	77.00	400	Horizontal	Pass
6	17353.472	53.76	74.0	20.24	Peak	113.00	300	Horizontal	Pass
6**	17353.472	44.47	54.0	9.53	AV	113.00	300	Horizontal	Pass

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

RSE (SRD)_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	1295.280	45.30	74.0	28.71	Peak	113.00	300	Vertical	Pass
1**	1295.280	34.90	54.0	19.10	AV	113.00	300	Vertical	Pass
2	2960.749	54.18	74.0	19.82	Peak	237.00	400	Vertical	Pass
2**	2960.749	46.09	54.0	7.92	AV	237.00	400	Vertical	Pass
3	4922.599	49.31	74.0	24.69	Peak	61.00	200	Vertical	Pass
3**	4922.599	43.96	54.0	10.04	AV	61.00	200	Vertical	Pass
4	7997.633	55.14	74.0	18.86	Peak	344.00	200	Vertical	Pass
4**	7997.633	47.33	54.0	6.67	AV	344.00	200	Vertical	Pass
5	12427.335	50.36	74.0	23.64	Peak	171.00	300	Vertical	Pass
5**	12427.335	40.47	54.0	13.53	AV	171.00	300	Vertical	Pass
6	17447.930	52.88	74.0	21.12	Peak	201.00	400	Vertical	Pass
6**	17447.930	43.21	54.0	10.79	AV	201.00	400	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	1373.765	44.97	74.0	29.03	Peak	53.00	200	Horizontal	Pass
1**	1373.765	35.78	54.0	18.22	AV	53.00	200	Horizontal	Pass
2	2752.616	53.20	74.0	20.80	Peak	112.00	400	Horizontal	Pass
2**	2752.616	43.43	54.0	10.57	AV	112.00	400	Horizontal	Pass
3	4985.452	50.45	74.0	23.55	Peak	3.00	200	Horizontal	Pass
3**	4985.452	41.48	54.0	12.52	AV	3.00	200	Horizontal	Pass
4	7901.116	55.66	74.0	18.34	Peak	22.00	200	Horizontal	Pass
4**	7901.116	46.19	54.0	7.81	AV	22.00	200	Horizontal	Pass
5	12383.928	51.25	74.0	22.75	Peak	153.00	400	Horizontal	Pass
5**	12383.928	40.90	54.0	13.10	AV	153.00	400	Horizontal	Pass
6	17350.370	53.71	74.0	20.29	Peak	35.00	300	Horizontal	Pass
6**	17350.370	43.95	54.0	10.05	AV	35.00	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	1296.331	45.01	74.0	29.00	Peak	174.00	100	Vertical	Pass
1**	1296.331	34.07	54.0	19.93	AV	174.00	100	Vertical	Pass
2	2967.970	53.93	74.0	20.07	Peak	331.00	200	Vertical	Pass
2**	2967.970	45.33	54.0	8.68	AV	331.00	200	Vertical	Pass
3	4926.001	48.31	74.0	25.69	Peak	199.00	200	Vertical	Pass
3**	4926.001	43.66	54.0	10.34	AV	199.00	200	Vertical	Pass
4	7997.016	54.20	74.0	19.80	Peak	86.00	300	Vertical	Pass
4**	7997.016	47.08	54.0	6.92	AV	86.00	300	Vertical	Pass
5	12430.348	49.97	74.0	24.03	Peak	101.00	200	Vertical	Pass
5**	12430.348	40.45	54.0	13.55	AV	101.00	200	Vertical	Pass
6	17450.142	51.94	74.0	22.06	Peak	263.00	200	Vertical	Pass
6**	17450.142	42.98	54.0	11.02	AV	263.00	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	1377.793	45.12	74.0	28.88	Peak	220.00	200	Horizontal	Pass
1**	1377.793	35.94	54.0	18.06	AV	220.00	200	Horizontal	Pass
2	2750.069	53.61	74.0	20.39	Peak	170.00	300	Horizontal	Pass
2**	2750.069	43.38	54.0	10.62	AV	170.00	300	Horizontal	Pass
3	4983.076	50.53	74.0	23.47	Peak	10.00	200	Horizontal	Pass
3**	4983.076	41.38	54.0	12.62	AV	10.00	200	Horizontal	Pass
4	7903.852	55.57	74.0	18.43	Peak	346.00	300	Horizontal	Pass
4**	7903.852	46.10	54.0	7.90	AV	346.00	300	Horizontal	Pass
5	12388.206	50.78	74.0	23.22	Peak	4.00	100	Horizontal	Pass
5**	12388.206	40.88	54.0	13.12	AV	4.00	100	Horizontal	Pass
6	17350.231	53.09	74.0	20.91	Peak	116.00	200	Horizontal	Pass
6**	17350.231	44.03	54.0	9.97	AV	116.00	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	1294.882	44.47	74.0	29.54	Peak	294.00	300	Vertical	Pass
1**	1294.882	34.70	54.0	19.30	AV	294.00	300	Vertical	Pass
2	2960.744	53.86	74.0	20.14	Peak	204.00	200	Vertical	Pass
2**	2960.744	46.06	54.0	7.95	AV	204.00	200	Vertical	Pass
3	4922.830	49.03	74.0	24.97	Peak	192.00	200	Vertical	Pass
3**	4922.830	43.20	54.0	10.80	AV	192.00	200	Vertical	Pass
4	7997.693	55.11	74.0	18.89	Peak	334.00	300	Vertical	Pass
4**	7997.693	46.35	54.0	7.65	AV	334.00	300	Vertical	Pass
5	12431.179	49.83	74.0	24.17	Peak	195.00	200	Vertical	Pass
5**	12431.179	40.04	54.0	13.96	AV	195.00	200	Vertical	Pass
6	17444.503	52.71	74.0	21.29	Peak	186.00	200	Vertical	Pass
6**	17444.503	43.15	54.0	10.85	AV	186.00	200	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	1371.043	45.75	74.0	28.25	Peak	255.00	100	Horizontal	Pass
1**	1371.043	36.01	54.0	17.99	AV	255.00	100	Horizontal	Pass
2	2748.338	53.42	74.0	20.58	Peak	221.00	100	Horizontal	Pass
2**	2748.338	43.36	54.0	10.64	AV	221.00	100	Horizontal	Pass
3	4982.229	50.45	74.0	23.55	Peak	356.00	200	Horizontal	Pass
3**	4982.229	41.93	54.0	12.07	AV	356.00	200	Horizontal	Pass
4	7902.628	55.44	74.0	18.56	Peak	274.00	100	Horizontal	Pass
4**	7902.628	45.69	54.0	8.31	AV	274.00	100	Horizontal	Pass
5	12386.961	51.18	74.0	22.82	Peak	22.00	100	Horizontal	Pass
5**	12386.961	40.50	54.0	13.50	AV	22.00	100	Horizontal	Pass
6	17354.759	52.96	74.0	21.04	Peak	10.00	300	Horizontal	Pass
6**	17354.759	43.54	54.0	10.46	AV	10.00	300	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	1296.011	44.95	74.0	29.06	Peak	263.00	300	Vertical	Pass
1**	1296.011	33.75	54.0	20.25	AV	263.00	300	Vertical	Pass
2	2967.053	53.87	74.0	20.13	Peak	346.00	300	Vertical	Pass
2**	2967.053	44.37	54.0	9.64	AV	346.00	300	Vertical	Pass
3	4927.943	48.17	74.0	25.83	Peak	189.00	200	Vertical	Pass
3**	4927.943	42.70	54.0	11.30	AV	189.00	200	Vertical	Pass
4	7995.337	53.78	74.0	20.22	Peak	52.00	400	Vertical	Pass
4**	7995.337	46.92	54.0	7.08	AV	52.00	400	Vertical	Pass
5	12427.331	49.93	74.0	24.07	Peak	289.00	200	Vertical	Pass
5**	12427.331	40.44	54.0	13.56	AV	289.00	200	Vertical	Pass
6	17444.261	51.60	74.0	22.40	Peak	249.00	300	Vertical	Pass
6**	17444.261	42.94	54.0	11.06	AV	249.00	300	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	1375.164	44.20	74.0	29.80	Peak	93.00	200	Horizontal	Pass
1**	1375.164	35.32	54.0	18.68	AV	93.00	200	Horizontal	Pass
2	2753.173	52.90	74.0	21.10	Peak	116.00	300	Horizontal	Pass
2**	2753.173	43.15	54.0	10.85	AV	116.00	300	Horizontal	Pass
3	4984.614	49.91	74.0	24.09	Peak	31.00	200	Horizontal	Pass
3**	4984.614	40.97	54.0	13.03	AV	31.00	200	Horizontal	Pass
4	7898.749	55.27	74.0	18.73	Peak	83.00	400	Horizontal	Pass
4**	7898.749	45.39	54.0	8.61	AV	83.00	400	Horizontal	Pass
5	12383.891	50.40	74.0	23.60	Peak	170.00	100	Horizontal	Pass
5**	12383.891	40.07	54.0	13.93	AV	170.00	100	Horizontal	Pass
6	17353.156	52.83	74.0	21.17	Peak	302.00	400	Horizontal	Pass
6**	17353.156	43.71	54.0	10.29	AV	302.00	400	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	1297.761	43.70	74.0	30.31	Peak	306.00	100	Vertical	Pass
1**	1297.761	34.61	54.0	19.39	AV	306.00	100	Vertical	Pass
2	2967.990	53.56	74.0	20.44	Peak	131.00	400	Vertical	Pass
2**	2967.990	45.66	54.0	8.35	AV	131.00	400	Vertical	Pass
3	4926.945	49.02	74.0	24.98	Peak	228.00	200	Vertical	Pass
3**	4926.945	42.48	54.0	11.52	AV	228.00	200	Vertical	Pass
4	7996.530	54.77	74.0	19.23	Peak	161.00	300	Vertical	Pass
4**	7996.530	45.45	54.0	8.55	AV	161.00	300	Vertical	Pass
5	12429.134	49.10	74.0	24.90	Peak	340.00	200	Vertical	Pass
5**	12429.134	39.92	54.0	14.08	AV	340.00	200	Vertical	Pass
6	17448.056	52.56	74.0	21.44	Peak	19.00	100	Vertical	Pass
6**	17448.056	42.37	54.0	11.63	AV	19.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1376.596	44.59	74.0	29.41	Peak	294.00	100	Horizontal	Pass
1**	1376.596	35.58	54.0	18.42	AV	294.00	100	Horizontal	Pass
2	2749.520	52.88	74.0	21.12	Peak	78.00	400	Horizontal	Pass
2**	2749.520	42.79	54.0	11.21	AV	78.00	400	Horizontal	Pass
3	4982.216	50.13	74.0	23.87	Peak	125.00	200	Horizontal	Pass
3**	4982.216	41.13	54.0	12.87	AV	125.00	200	Horizontal	Pass
4	7904.156	55.28	74.0	18.72	Peak	205.00	400	Horizontal	Pass
4**	7904.156	45.80	54.0	8.20	AV	205.00	400	Horizontal	Pass
5	12387.684	50.21	74.0	23.79	Peak	310.00	200	Horizontal	Pass
5**	12387.684	39.89	54.0	14.11	AV	310.00	200	Horizontal	Pass
6	17352.104	52.98	74.0	21.02	Peak	114.00	100	Horizontal	Pass
6**	17352.104	43.37	54.0	10.63	AV	114.00	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	1293.553	44.86	74.0	29.15	Peak	57.00	400	Vertical	Pass
1**	1293.553	33.72	54.0	20.28	AV	57.00	400	Vertical	Pass
2	2965.337	53.81	74.0	20.19	Peak	195.00	400	Vertical	Pass
2**	2965.337	44.30	54.0	9.70	AV	195.00	400	Vertical	Pass
3	4926.098	48.10	74.0	25.90	Peak	148.00	200	Vertical	Pass
3**	4926.098	42.69	54.0	11.31	AV	148.00	200	Vertical	Pass
4	7997.355	53.76	74.0	20.24	Peak	168.00	100	Vertical	Pass
4**	7997.355	46.83	54.0	7.17	AV	168.00	100	Vertical	Pass
5	12433.998	49.87	74.0	24.13	Peak	223.00	100	Vertical	Pass
5**	12433.998	40.37	54.0	13.63	AV	223.00	100	Vertical	Pass
6	17448.259	51.57	74.0	22.43	Peak	171.00	400	Vertical	Pass
6**	17448.259	42.86	54.0	11.14	AV	171.00	400	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	1370.559	45.73	74.0	28.27	Peak	159.00	200	Horizontal	Pass
1**	1370.559	36.01	54.0	17.99	AV	159.00	200	Horizontal	Pass
2	2753.077	53.35	74.0	20.65	Peak	79.00	200	Horizontal	Pass
2**	2753.077	43.34	54.0	10.66	AV	79.00	200	Horizontal	Pass
3	4980.093	50.43	74.0	23.57	Peak	345.00	200	Horizontal	Pass
3**	4980.093	41.87	54.0	12.13	AV	345.00	200	Horizontal	Pass
4	7901.015	55.35	74.0	18.65	Peak	96.00	300	Horizontal	Pass
4**	7901.015	45.60	54.0	8.40	AV	96.00	300	Horizontal	Pass
5	12388.799	51.10	74.0	22.90	Peak	312.00	300	Horizontal	Pass
5**	12388.799	40.49	54.0	13.51	AV	312.00	300	Horizontal	Pass
6	17350.867	52.89	74.0	21.11	Peak	139.00	200	Horizontal	Pass
6**	17350.867	43.54	54.0	10.46	AV	139.00	200	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	1297.834	43.60	74.0	30.40	Peak	49.00	100	Vertical	Pass
1**	1297.834	34.54	54.0	19.46	AV	49.00	100	Vertical	Pass
2	2967.673	53.51	74.0	20.49	Peak	249.00	400	Vertical	Pass
2**	2967.673	45.58	54.0	8.42	AV	249.00	400	Vertical	Pass
3	4920.667	48.95	74.0	25.05	Peak	299.00	200	Vertical	Pass
3**	4920.667	42.41	54.0	11.59	AV	299.00	200	Vertical	Pass
4	7994.442	54.72	74.0	19.28	Peak	360.00	300	Vertical	Pass
4**	7994.442	45.39	54.0	8.61	AV	360.00	300	Vertical	Pass
5	12433.998	49.04	74.0	24.96	Peak	158.00	200	Vertical	Pass
5**	12433.998	39.90	54.0	14.11	AV	158.00	200	Vertical	Pass
6	17448.333	52.46	74.0	21.54	Peak	2.00	400	Vertical	Pass
6**	17448.333	42.27	54.0	11.73	AV	2.00	400	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	1376.996	45.79	74.0	28.21	Peak	353.00	200	Horizontal	Pass
1**	1376.996	36.30	54.0	17.71	AV	353.00	200	Horizontal	Pass
2	2752.239	53.99	74.0	20.01	Peak	275.00	100	Horizontal	Pass
2**	2752.239	44.28	54.0	9.72	AV	275.00	100	Horizontal	Pass
3	4983.555	50.61	74.0	23.39	Peak	310.00	200	Horizontal	Pass
3**	4983.555	42.14	54.0	11.86	AV	310.00	200	Horizontal	Pass
4	7900.735	56.23	74.0	17.77	Peak	340.00	300	Horizontal	Pass
4**	7900.735	46.33	54.0	7.68	AV	340.00	300	Horizontal	Pass
5	12387.963	51.28	74.0	22.72	Peak	114.00	200	Horizontal	Pass
5**	12387.963	40.85	54.0	13.15	AV	114.00	200	Horizontal	Pass
6	17353.154	53.67	74.0	20.33	Peak	272.00	100	Horizontal	Pass
6**	17353.154	44.40	54.0	9.60	AV	272.00	100	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	1292.185	44.67	74.0	29.34	Peak	229.00	300	Vertical	Pass
1**	1292.185	33.56	54.0	20.44	AV	229.00	300	Vertical	Pass
2	2968.175	53.59	74.0	20.41	Peak	360.00	100	Vertical	Pass
2**	2968.175	43.38	54.0	10.62	AV	360.00	100	Vertical	Pass
3	4924.702	48.06	74.0	25.94	Peak	22.00	200	Vertical	Pass
3**	4924.702	42.49	54.0	11.51	AV	22.00	200	Vertical	Pass
4	7997.483	53.56	74.0	20.44	Peak	269.00	200	Vertical	Pass
4**	7997.483	46.71	54.0	7.29	AV	269.00	200	Vertical	Pass
5	12430.320	49.84	74.0	24.16	Peak	103.00	300	Vertical	Pass
5**	12430.320	40.20	54.0	13.80	AV	103.00	300	Vertical	Pass
6	17449.838	50.65	74.0	23.35	Peak	21.00	300	Vertical	Pass
6**	17449.838	42.21	54.0	11.79	AV	21.00	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	1377.583	45.77	74.0	28.23	Peak	144.00	400	Horizontal	Pass
1**	1377.583	36.23	54.0	17.77	AV	144.00	400	Horizontal	Pass
2	2755.055	54.02	74.0	19.99	Peak	263.00	100	Horizontal	Pass
2**	2755.055	44.32	54.0	9.68	AV	263.00	100	Horizontal	Pass
3	4984.833	50.60	74.0	23.40	Peak	214.00	200	Horizontal	Pass
3**	4984.833	42.12	54.0	11.88	AV	214.00	200	Horizontal	Pass
4	7905.466	56.23	74.0	17.77	Peak	349.00	300	Horizontal	Pass
4**	7905.466	46.26	54.0	7.74	AV	349.00	300	Horizontal	Pass
5	12388.847	51.28	74.0	22.72	Peak	305.00	400	Horizontal	Pass
5**	12388.847	40.86	54.0	13.14	AV	305.00	400	Horizontal	Pass
6	17354.915	53.74	74.0	20.27	Peak	166.00	100	Horizontal	Pass
6**	17354.915	44.47	54.0	9.53	AV	166.00	100	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	1295.045	43.54	74.0	30.46	Peak	91.00	300	Vertical	Pass
1**	1295.045	34.38	54.0	19.62	AV	91.00	300	Vertical	Pass
2	2967.196	52.87	74.0	21.13	Peak	299.00	100	Vertical	Pass
2**	2967.196	44.59	54.0	9.41	AV	299.00	100	Vertical	Pass
3	4925.991	48.80	74.0	25.20	Peak	129.00	200	Vertical	Pass
3**	4925.991	41.44	54.0	12.56	AV	129.00	200	Vertical	Pass
4	7996.087	53.88	74.0	20.12	Peak	353.00	300	Vertical	Pass
4**	7996.087	44.77	54.0	9.23	AV	353.00	300	Vertical	Pass
5	12430.296	48.80	74.0	25.20	Peak	160.00	400	Vertical	Pass
5**	12430.296	39.11	54.0	14.90	AV	160.00	400	Vertical	Pass
6	17449.506	52.37	74.0	21.63	Peak	272.00	200	Vertical	Pass
6**	17449.506	41.79	54.0	12.21	AV	272.00	200	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	1373.680	45.74	74.0	28.26	Peak	18.00	100	Horizontal	Pass
1**	1373.680	36.28	54.0	17.72	AV	18.00	100	Horizontal	Pass
2	2752.308	54.04	74.0	19.96	Peak	62.00	100	Horizontal	Pass
2**	2752.308	44.32	54.0	9.68	AV	62.00	100	Horizontal	Pass
3	4982.786	50.55	74.0	23.45	Peak	332.00	200	Horizontal	Pass
3**	4982.786	42.11	54.0	11.89	AV	332.00	200	Horizontal	Pass
4	7902.626	56.22	74.0	17.78	Peak	107.00	100	Horizontal	Pass
4**	7902.626	46.34	54.0	7.66	AV	107.00	100	Horizontal	Pass
5	12381.589	51.27	74.0	22.73	Peak	11.00	200	Horizontal	Pass
5**	12381.589	40.90	54.0	13.10	AV	11.00	200	Horizontal	Pass
6	17353.926	53.71	74.0	20.30	Peak	271.00	400	Horizontal	Pass
6**	17353.926	44.45	54.0	9.55	AV	271.00	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	1294.925	44.83	74.0	29.18	Peak	172.00	200	Vertical	Pass
1**	1294.925	34.88	54.0	19.12	AV	172.00	200	Vertical	Pass
2	2961.275	54.10	74.0	19.90	Peak	305.00	300	Vertical	Pass
2**	2961.275	45.21	54.0	8.80	AV	305.00	300	Vertical	Pass
3	4921.413	49.12	74.0	24.88	Peak	95.00	200	Vertical	Pass
3**	4921.413	43.21	54.0	10.79	AV	95.00	200	Vertical	Pass
4	7996.260	54.92	74.0	19.08	Peak	49.00	100	Vertical	Pass
4**	7996.260	46.43	54.0	7.57	AV	49.00	100	Vertical	Pass
5	12433.404	50.29	74.0	23.71	Peak	7.00	200	Vertical	Pass
5**	12433.404	40.09	54.0	13.91	AV	7.00	200	Vertical	Pass
6	17447.046	52.77	74.0	21.23	Peak	138.00	100	Vertical	Pass
6**	17447.046	42.91	54.0	11.09	AV	138.00	100	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	1375.521	44.43	74.0	29.57	Peak	19.00	200	Horizontal	Pass
1**	1375.521	34.89	54.0	19.11	AV	19.00	200	Horizontal	Pass
2	2755.266	52.51	74.0	21.49	Peak	172.00	300	Horizontal	Pass
2**	2755.266	43.17	54.0	10.83	AV	172.00	300	Horizontal	Pass
3	4986.081	50.15	74.0	23.85	Peak	36.00	200	Horizontal	Pass
3**	4986.081	41.14	54.0	12.86	AV	36.00	200	Horizontal	Pass
4	7900.611	55.12	74.0	18.88	Peak	60.00	100	Horizontal	Pass
4**	7900.611	46.13	54.0	7.87	AV	60.00	100	Horizontal	Pass
5	12385.213	50.97	74.0	23.03	Peak	78.00	200	Horizontal	Pass
5**	12385.213	40.11	54.0	13.89	AV	78.00	200	Horizontal	Pass
6	17356.133	52.96	74.0	21.04	Peak	318.00	300	Horizontal	Pass
6**	17356.133	43.58	54.0	10.42	AV	318.00	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	1293.058	44.39	74.0	29.62	Peak	248.00	100	Vertical	Pass
1**	1293.058	33.86	54.0	20.14	AV	248.00	100	Vertical	Pass
2	2961.722	53.74	74.0	20.26	Peak	205.00	300	Vertical	Pass
2**	2961.722	45.01	54.0	9.00	AV	205.00	300	Vertical	Pass
3	4924.015	48.16	74.0	25.84	Peak	138.00	200	Vertical	Pass
3**	4924.015	43.25	54.0	10.75	AV	138.00	200	Vertical	Pass
4	7991.336	53.95	74.0	20.05	Peak	244.00	400	Vertical	Pass
4**	7991.336	46.83	54.0	7.17	AV	244.00	400	Vertical	Pass
5	12429.047	49.91	74.0	24.09	Peak	168.00	200	Vertical	Pass
5**	12429.047	39.69	54.0	14.31	AV	168.00	200	Vertical	Pass
6	17449.057	51.40	74.0	22.60	Peak	114.00	100	Vertical	Pass
6**	17449.057	42.09	54.0	11.91	AV	114.00	100	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	1376.616	45.38	74.0	28.62	Peak	33.00	300	Horizontal	Pass
1**	1376.616	36.08	54.0	17.92	AV	33.00	300	Horizontal	Pass
2	2749.728	54.06	74.0	19.94	Peak	21.00	300	Horizontal	Pass
2**	2749.728	43.87	54.0	10.13	AV	21.00	300	Horizontal	Pass
3	4985.088	50.31	74.0	23.69	Peak	154.00	200	Horizontal	Pass
3**	4985.088	42.06	54.0	11.94	AV	154.00	200	Horizontal	Pass
4	7900.430	55.54	74.0	18.46	Peak	19.00	300	Horizontal	Pass
4**	7900.430	45.63	54.0	8.37	AV	19.00	300	Horizontal	Pass
5	12386.318	50.97	74.0	23.03	Peak	177.00	200	Horizontal	Pass
5**	12386.318	40.00	54.0	14.00	AV	177.00	200	Horizontal	Pass
6	17349.354	52.82	74.0	21.18	Peak	288.00	200	Horizontal	Pass
6**	17349.354	43.58	54.0	10.42	AV	288.00	200	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	1294.870	44.48	74.0	29.53	Peak	19.00	300	Vertical	Pass
1**	1294.870	34.30	54.0	19.70	AV	19.00	300	Vertical	Pass
2	2966.301	53.57	74.0	20.43	Peak	177.00	100	Vertical	Pass
2**	2966.301	45.90	54.0	8.11	AV	177.00	100	Vertical	Pass
3	4927.733	48.81	74.0	25.19	Peak	236.00	200	Vertical	Pass
3**	4927.733	42.98	54.0	11.02	AV	236.00	200	Vertical	Pass
4	7992.965	55.03	74.0	18.97	Peak	341.00	200	Vertical	Pass
4**	7992.965	46.44	54.0	7.56	AV	341.00	200	Vertical	Pass
5	12432.654	50.24	74.0	23.76	Peak	45.00	300	Vertical	Pass
5**	12432.654	39.51	54.0	14.49	AV	45.00	300	Vertical	Pass
6	17447.931	52.52	74.0	21.48	Peak	45.00	200	Vertical	Pass
6**	17447.931	42.39	54.0	11.61	AV	45.00	200	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	1376.513	44.82	74.0	29.18	Peak	304.00	300	Horizontal	Pass
1**	1376.513	35.43	54.0	18.57	AV	304.00	300	Horizontal	Pass
2	2747.702	52.76	74.0	21.24	Peak	206.00	200	Horizontal	Pass
2**	2747.702	43.21	54.0	10.79	AV	206.00	200	Horizontal	Pass
3	4983.898	49.64	74.0	24.36	Peak	184.00	200	Horizontal	Pass
3**	4983.898	41.26	54.0	12.74	AV	184.00	200	Horizontal	Pass
4	7898.547	55.55	74.0	18.45	Peak	98.00	200	Horizontal	Pass
4**	7898.547	45.97	54.0	8.03	AV	98.00	200	Horizontal	Pass
5	12382.369	50.34	74.0	23.66	Peak	96.00	200	Horizontal	Pass
5**	12382.369	40.58	54.0	13.42	AV	96.00	200	Horizontal	Pass
6	17352.041	53.49	74.0	20.51	Peak	118.00	200	Horizontal	Pass
6**	17352.041	43.70	54.0	10.30	AV	118.00	200	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	1293.017	44.87	74.0	29.14	Peak	81.00	200	Vertical	Pass
1**	1293.017	33.40	54.0	20.60	AV	81.00	200	Vertical	Pass
2	2960.984	53.46	74.0	20.54	Peak	244.00	100	Vertical	Pass
2**	2960.984	44.64	54.0	9.37	AV	244.00	100	Vertical	Pass
3	4925.861	48.18	74.0	25.82	Peak	133.00	200	Vertical	Pass
3**	4925.861	43.23	54.0	10.77	AV	133.00	200	Vertical	Pass
4	7993.568	54.13	74.0	19.87	Peak	252.00	200	Vertical	Pass
4**	7993.568	46.85	54.0	7.15	AV	252.00	200	Vertical	Pass
5	12429.977	49.81	74.0	24.19	Peak	43.00	300	Vertical	Pass
5**	12429.977	40.43	54.0	13.57	AV	43.00	300	Vertical	Pass
6	17450.062	51.45	74.0	22.55	Peak	135.00	300	Vertical	Pass
6**	17450.062	42.24	54.0	11.76	AV	135.00	300	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	1372.631	45.03	74.0	28.97	Peak	102.00	400	Horizontal	Pass
1**	1372.631	35.69	54.0	18.31	AV	102.00	400	Horizontal	Pass
2	2753.112	53.33	74.0	20.67	Peak	113.00	400	Horizontal	Pass
2**	2753.112	42.79	54.0	11.21	AV	113.00	400	Horizontal	Pass
3	4985.318	50.47	74.0	23.53	Peak	30.00	200	Horizontal	Pass
3**	4985.318	40.56	54.0	13.44	AV	30.00	200	Horizontal	Pass
4	7902.853	55.36	74.0	18.64	Peak	294.00	300	Horizontal	Pass
4**	7902.853	45.95	54.0	8.05	AV	294.00	300	Horizontal	Pass
5	12383.223	50.59	74.0	23.41	Peak	11.00	400	Horizontal	Pass
5**	12383.223	40.70	54.0	13.30	AV	11.00	400	Horizontal	Pass
6	17352.010	52.13	74.0	21.87	Peak	162.00	200	Horizontal	Pass
6**	17352.010	43.20	54.0	10.80	AV	162.00	200	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	1292.203	43.90	74.0	30.11	Peak	43.00	300	Vertical	Pass
1**	1292.203	34.42	54.0	19.58	AV	43.00	300	Vertical	Pass
2	2962.956	53.25	74.0	20.75	Peak	143.00	100	Vertical	Pass
2**	2962.956	45.97	54.0	8.04	AV	143.00	100	Vertical	Pass
3	4921.485	48.89	74.0	25.11	Peak	275.00	200	Vertical	Pass
3**	4921.485	42.53	54.0	11.47	AV	275.00	200	Vertical	Pass
4	7994.373	54.72	74.0	19.28	Peak	236.00	300	Vertical	Pass
4**	7994.373	46.15	54.0	7.85	AV	236.00	300	Vertical	Pass
5	12429.047	48.99	74.0	25.01	Peak	113.00	400	Vertical	Pass
5**	12429.047	39.13	54.0	14.87	AV	113.00	400	Vertical	Pass
6	17443.677	52.21	74.0	21.79	Peak	131.00	400	Vertical	Pass
6**	17443.677	42.48	54.0	11.52	AV	131.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1371.959	45.13	74.0	28.87	Peak	216.00	200	Horizontal	Pass
1**	1371.959	36.24	54.0	17.76	AV	216.00	200	Horizontal	Pass
2	2754.204	53.85	74.0	20.15	Peak	294.00	400	Horizontal	Pass
2**	2754.204	44.01	54.0	9.99	AV	294.00	400	Horizontal	Pass
3	4985.811	49.97	74.0	24.03	Peak	193.00	200	Horizontal	Pass
3**	4985.811	41.75	54.0	12.25	AV	193.00	200	Horizontal	Pass
4	7903.558	55.62	74.0	18.38	Peak	95.00	100	Horizontal	Pass
4**	7903.558	45.99	54.0	8.01	AV	95.00	100	Horizontal	Pass
5	12388.877	50.91	74.0	23.09	Peak	168.00	100	Horizontal	Pass
5**	12388.877	40.40	54.0	13.60	AV	168.00	100	Horizontal	Pass
6	17353.075	53.56	74.0	20.44	Peak	142.00	400	Horizontal	Pass
6**	17353.075	44.03	54.0	9.97	AV	142.00	400	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	1293.968	44.54	74.0	29.47	Peak	237.00	200	Vertical	Pass
1**	1293.968	34.78	54.0	19.22	AV	237.00	200	Vertical	Pass
2	2964.565	53.58	74.0	20.42	Peak	213.00	100	Vertical	Pass
2**	2964.565	45.60	54.0	8.41	AV	213.00	100	Vertical	Pass
3	4925.596	49.12	74.0	24.88	Peak	155.00	200	Vertical	Pass
3**	4925.596	43.68	54.0	10.32	AV	155.00	200	Vertical	Pass
4	7996.840	54.92	74.0	19.08	Peak	19.00	200	Vertical	Pass
4**	7996.840	47.22	54.0	6.78	AV	19.00	200	Vertical	Pass
5	12433.917	49.38	74.0	24.62	Peak	245.00	300	Vertical	Pass
5**	12433.917	40.42	54.0	13.58	AV	245.00	300	Vertical	Pass
6	17443.678	52.81	74.0	21.19	Peak	116.00	400	Vertical	Pass
6**	17443.678	43.05	54.0	10.95	AV	116.00	400	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	1371.436	45.38	74.0	28.62	Peak	293.00	300	Horizontal	Pass
1**	1371.436	36.16	54.0	17.84	AV	293.00	300	Horizontal	Pass
2	2752.073	53.70	74.0	20.30	Peak	331.00	100	Horizontal	Pass
2**	2752.073	44.09	54.0	9.91	AV	331.00	100	Horizontal	Pass
3	4980.871	49.80	74.0	24.20	Peak	347.00	200	Horizontal	Pass
3**	4980.871	41.60	54.0	12.40	AV	347.00	200	Horizontal	Pass
4	7905.162	55.39	74.0	18.61	Peak	122.00	400	Horizontal	Pass
4**	7905.162	45.41	54.0	8.59	AV	122.00	400	Horizontal	Pass
5	12384.080	50.31	74.0	23.69	Peak	5.00	100	Horizontal	Pass
5**	12384.080	40.57	54.0	13.43	AV	5.00	100	Horizontal	Pass
6	17352.904	53.08	74.0	20.92	Peak	130.00	400	Horizontal	Pass
6**	17352.904	44.45	54.0	9.55	AV	130.00	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	1297.157	44.97	74.0	29.04	Peak	79.00	100	Vertical	Pass
1**	1297.157	34.37	54.0	19.63	AV	79.00	100	Vertical	Pass
2	2965.680	53.60	74.0	20.40	Peak	102.00	100	Vertical	Pass
2**	2965.680	45.77	54.0	8.24	AV	102.00	100	Vertical	Pass
3	4924.578	49.30	74.0	24.70	Peak	63.00	200	Vertical	Pass
3**	4924.578	43.86	54.0	10.14	AV	63.00	200	Vertical	Pass
4	7992.070	54.84	74.0	19.16	Peak	312.00	400	Vertical	Pass
4**	7992.070	46.38	54.0	7.62	AV	312.00	400	Vertical	Pass
5	12429.636	49.76	74.0	24.24	Peak	163.00	200	Vertical	Pass
5**	12429.636	39.78	54.0	14.22	AV	163.00	200	Vertical	Pass
6	17446.153	52.87	74.0	21.13	Peak	261.00	100	Vertical	Pass
6**	17446.153	43.08	54.0	10.92	AV	261.00	100	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	1370.955	44.36	74.0	29.64	Peak	98.00	200	Horizontal	Pass
1**	1370.955	35.71	54.0	18.29	AV	98.00	200	Horizontal	Pass
2	2754.818	52.88	74.0	21.12	Peak	299.00	100	Horizontal	Pass
2**	2754.818	42.73	54.0	11.27	AV	299.00	100	Horizontal	Pass
3	4979.888	49.69	74.0	24.31	Peak	295.00	200	Horizontal	Pass
3**	4979.888	40.67	54.0	13.33	AV	295.00	200	Horizontal	Pass
4	7905.454	55.23	74.0	18.77	Peak	103.00	100	Horizontal	Pass
4**	7905.454	45.27	54.0	8.73	AV	103.00	100	Horizontal	Pass
5	12387.539	51.23	74.0	22.77	Peak	218.00	400	Horizontal	Pass
5**	12387.539	40.48	54.0	13.52	AV	218.00	400	Horizontal	Pass
6	17354.927	53.44	74.0	20.56	Peak	301.00	300	Horizontal	Pass
6**	17354.927	43.59	54.0	10.41	AV	301.00	300	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	1292.533	44.64	74.0	29.37	Peak	184.00	200	Vertical	Pass
1**	1292.533	33.35	54.0	20.65	AV	184.00	200	Vertical	Pass
2	2966.241	53.86	74.0	20.14	Peak	36.00	200	Vertical	Pass
2**	2966.241	44.44	54.0	9.57	AV	36.00	200	Vertical	Pass
3	4921.586	47.53	74.0	26.47	Peak	227.00	200	Vertical	Pass
3**	4921.586	43.60	54.0	10.40	AV	227.00	200	Vertical	Pass
4	7994.705	53.95	74.0	20.05	Peak	144.00	400	Vertical	Pass
4**	7994.705	46.64	54.0	7.36	AV	144.00	400	Vertical	Pass
5	12431.896	49.79	74.0	24.21	Peak	314.00	400	Vertical	Pass
5**	12431.896	39.87	54.0	14.13	AV	314.00	400	Vertical	Pass
6	17445.956	51.28	74.0	22.72	Peak	287.00	100	Vertical	Pass
6**	17445.956	42.69	54.0	11.31	AV	287.00	100	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	1374.180	44.26	74.0	29.74	Peak	73.00	300	Horizontal	Pass
1**	1374.180	35.10	54.0	18.90	AV	73.00	300	Horizontal	Pass
2	2755.433	53.45	74.0	20.55	Peak	261.00	100	Horizontal	Pass
2**	2755.433	43.12	54.0	10.88	AV	261.00	100	Horizontal	Pass
3	4986.436	50.26	74.0	23.74	Peak	262.00	200	Horizontal	Pass
3**	4986.436	40.60	54.0	13.40	AV	262.00	200	Horizontal	Pass
4	7899.405	54.85	74.0	19.15	Peak	329.00	100	Horizontal	Pass
4**	7899.405	45.58	54.0	8.42	AV	329.00	100	Horizontal	Pass
5	12383.242	50.46	74.0	23.54	Peak	225.00	200	Horizontal	Pass
5**	12383.242	40.72	54.0	13.28	AV	225.00	200	Horizontal	Pass
6	17355.144	52.52	74.0	21.48	Peak	351.00	400	Horizontal	Pass
6**	17355.144	43.43	54.0	10.57	AV	351.00	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	1294.526	44.03	74.0	29.98	Peak	55.00	200	Vertical	Pass
1**	1294.526	33.94	54.0	20.06	AV	55.00	200	Vertical	Pass
2	2967.774	53.38	74.0	20.62	Peak	144.00	100	Vertical	Pass
2**	2967.774	45.09	54.0	8.92	AV	144.00	100	Vertical	Pass
3	4920.351	48.61	74.0	25.39	Peak	339.00	200	Vertical	Pass
3**	4920.351	43.17	54.0	10.83	AV	339.00	200	Vertical	Pass
4	7993.906	54.77	74.0	19.23	Peak	130.00	300	Vertical	Pass
4**	7993.906	46.05	54.0	7.95	AV	130.00	300	Vertical	Pass
5	12428.797	49.23	74.0	24.77	Peak	305.00	400	Vertical	Pass
5**	12428.797	39.70	54.0	14.30	AV	305.00	400	Vertical	Pass
6	17450.142	52.02	74.0	21.98	Peak	238.00	300	Vertical	Pass
6**	17450.142	42.67	54.0	11.33	AV	238.00	300	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: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

Test Data and Plots**802.11b LOW CHANNEL**

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2361.500	55.61	74.0	18.39	Peak	122.00	100	Vertical	Pass
1**	2361.500	43.46	54.0	10.54	AV	122.00	100	Vertical	Pass
2	2389.833	53.93	74.0	20.07	Peak	78.00	100	Vertical	Pass
2**	2389.833	43.49	54.0	10.51	AV	78.00	100	Vertical	Pass

802.11b HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	54.68	74.0	19.32	Peak	0.00	200	Vertical	Pass
1**	2483.550	43.85	54.0	10.15	AV	0.00	200	Vertical	Pass
2	2488.350	55.88	74.0	18.12	Peak	64.00	150	Vertical	Pass
2**	2488.350	43.73	54.0	10.27	AV	64.00	150	Vertical	Pass

802.11g LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2386.333	67.82	74.0	6.18	Peak	158.00	150	Vertical	Pass
1**	2386.333	48.36	54.0	5.64	AV	158.00	150	Vertical	Pass
2	2389.833	65.84	74.0	8.16	Peak	156.00	200	Vertical	Pass
2**	2389.833	50.87	54.0	3.13	AV	156.00	200	Vertical	Pass
3	2389.667	65.08	74.0	8.92	Peak	158.00	150	Vertical	Pass
3**	2389.667	50.80	54.0	3.20	AV	158.00	150	Vertical	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	63.17	74.0	10.83	Peak	173.00	150	Vertical	Pass
1**	2483.500	50.14	54.0	3.86	AV	173.00	150	Vertical	Pass
2	2485.500	65.41	74.0	8.59	Peak	173.00	200	Vertical	Pass
2**	2485.500	48.57	54.0	5.43	AV	173.00	200	Vertical	Pass

802.11n20 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.833	65.90	74.0	8.10	Peak	158.00	150	Vertical	Pass
1**	2388.833	48.60	54.0	5.40	AV	158.00	150	Vertical	Pass
2	2389.833	65.00	74.0	9.00	Peak	17.00	100	Vertical	Pass
2**	2389.833	49.37	54.0	4.63	AV	17.00	100	Vertical	Pass

802.11n20 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	65.34	74.0	8.66	Peak	178.00	200	Vertical	Pass
1**	2483.500	50.62	54.0	3.38	AV	178.00	200	Vertical	Pass
2	2484.350	68.49	74.0	5.51	Peak	162.00	100	Vertical	Pass
2**	2484.350	50.77	54.0	3.23	AV	162.00	100	Vertical	Pass

802.11n40 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2384.500	66.09	74.0	7.91	Peak	158.00	150	Vertical	Pass
1**	2384.500	49.33	54.0	4.67	AV	158.00	150	Vertical	Pass
2	2389.833	64.01	74.0	9.99	Peak	155.00	100	Vertical	Pass
2**	2389.833	49.62	54.0	4.38	AV	155.00	100	Vertical	Pass

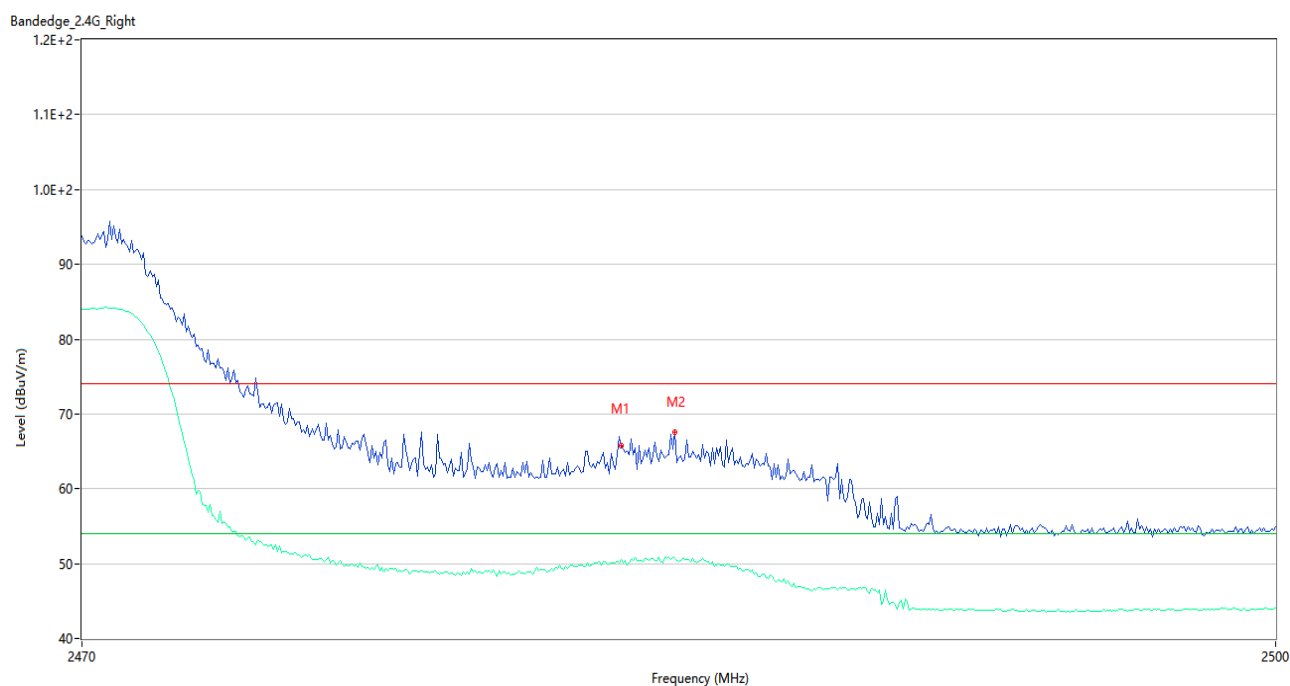
802.11n40 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	54.28	74.0	19.72	Peak	2.00	100	Vertical	Pass
1**	2483.550	44.10	54.0	9.90	AV	2.00	100	Vertical	Pass
2	2483.750	56.23	74.0	17.77	Peak	24.00	200	Vertical	Pass
2**	2483.750	44.16	54.0	9.84	AV	24.00	200	Vertical	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	2388.667	66.57	74.0	7.43	Peak	174.00	200	Vertical	Pass
1**	2388.667	49.40	54.0	4.60	AV	174.00	200	Vertical	Pass
2	2389.833	66.12	74.0	7.88	Peak	166.00	150	Vertical	Pass
2**	2389.833	50.45	54.0	3.55	AV	166.00	150	Vertical	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	66.34	74.0	7.66	Peak	238.00	100	Vertical	Pass
1**	2483.500	50.98	54.0	3.02	AV	238.00	100	Vertical	Pass
2	2484.850	68.19	74.0	5.81	Peak	179.00	200	Vertical	Pass
2**	2484.850	50.96	54.0	3.04	AV	179.00	200	Vertical	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	63.66	74.0	10.34	Peak	168.00	200	Vertical	Pass
1**	2388.167	48.44	54.0	5.56	AV	168.00	200	Vertical	Pass
2	2389.833	61.59	74.0	12.41	Peak	161.00	200	Vertical	Pass
2**	2389.833	49.02	54.0	4.98	AV	161.00	200	Vertical	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	55.17	74.0	18.83	Peak	142.00	200	Vertical	Pass
1**	2483.500	44.24	54.0	9.76	AV	142.00	200	Vertical	Pass
2	2484.300	56.17	74.0	17.83	Peak	258.00	100	Vertical	Pass
2**	2484.300	44.30	54.0	9.70	AV	258.00	100	Vertical	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-6.78	8
Middle	-4.94	8
High	-6.05	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-8.36	8
Middle	-8.13	8
High	-8.39	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.06	8
Middle	-8.46	8
High	-11.93	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.86	8
Middle	-12.14	8
High	-18.85	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.63	8
Middle	-8.94	8
High	-13.71	8

802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-10.03	8
Middle	-11.62	8
High	-19.81	8

Test Plots

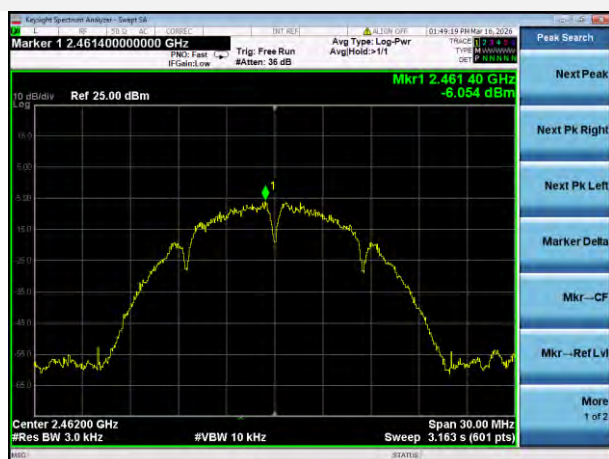
802.11b LOW CHANNEL



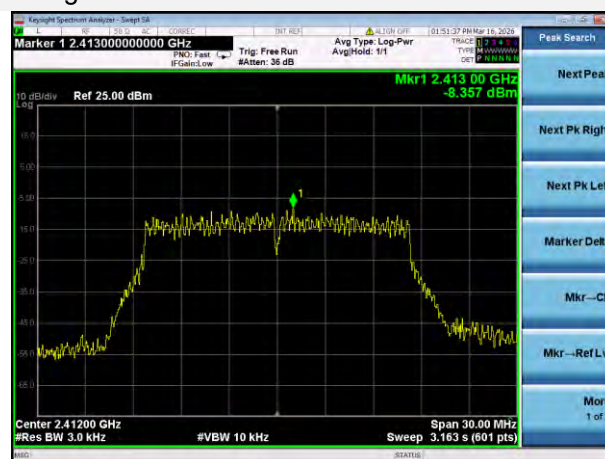
802.11b MIDDLE CHANNEL



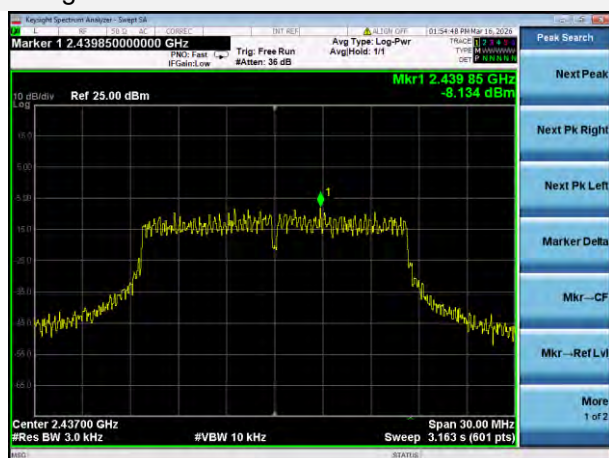
802.11b HIGH CHANNEL



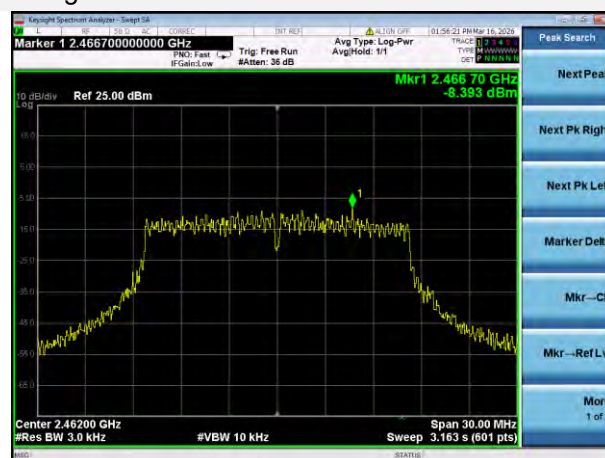
802.11g LOW CHANNEL



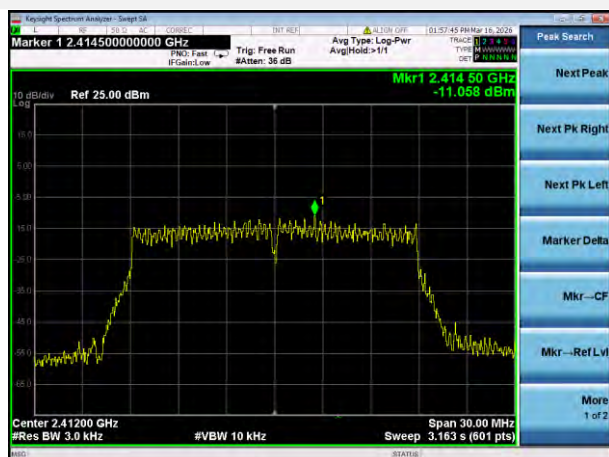
802.11g MIDDLE CHANNEL



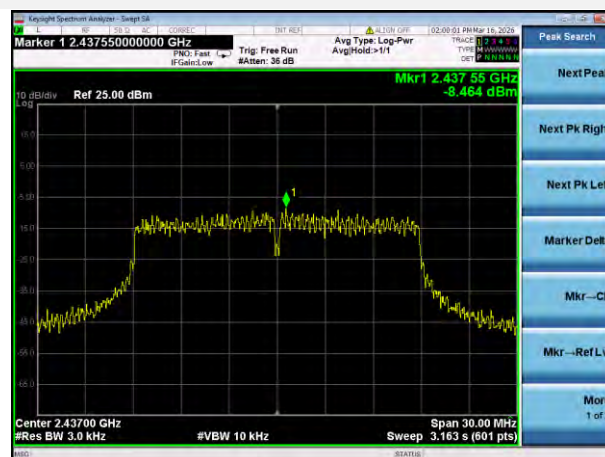
802.11g HIGH CHANNEL



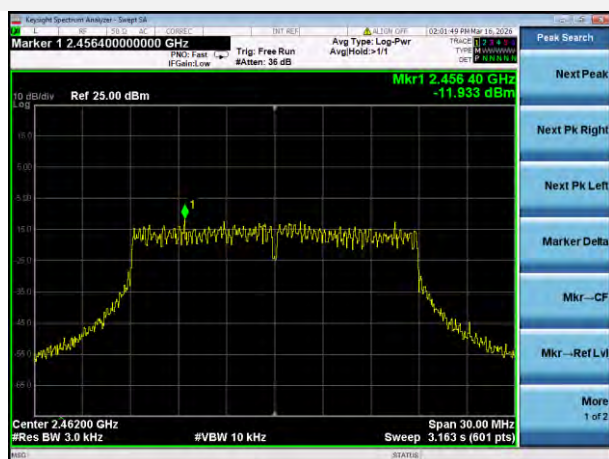
802.11n-20 MHz LOW CHANNEL



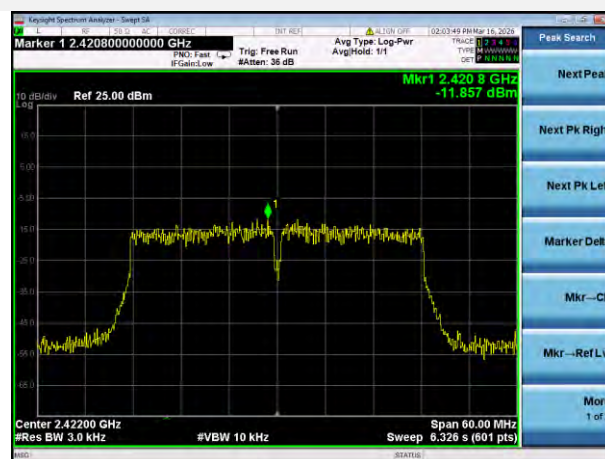
802.11n-20 MHz MIDDLE CHANNEL



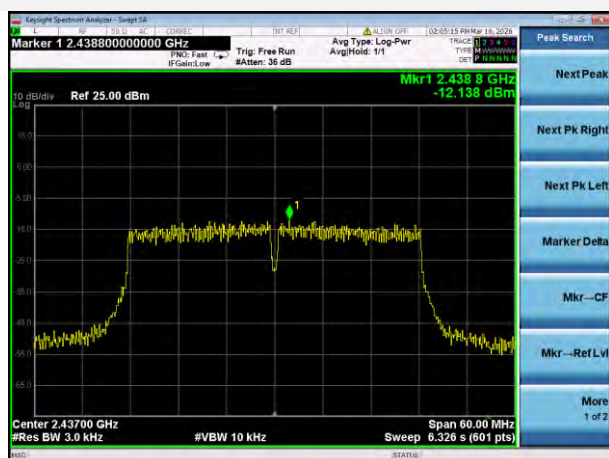
802.11n-20 MHz HIGH CHANNEL



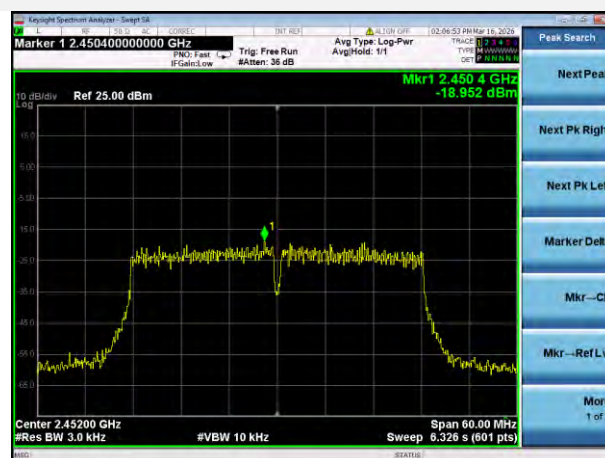
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



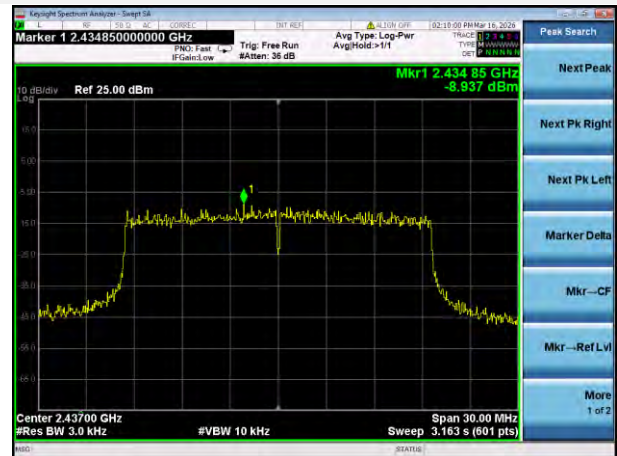
802.11n-40 MHz HIGH CHANNEL



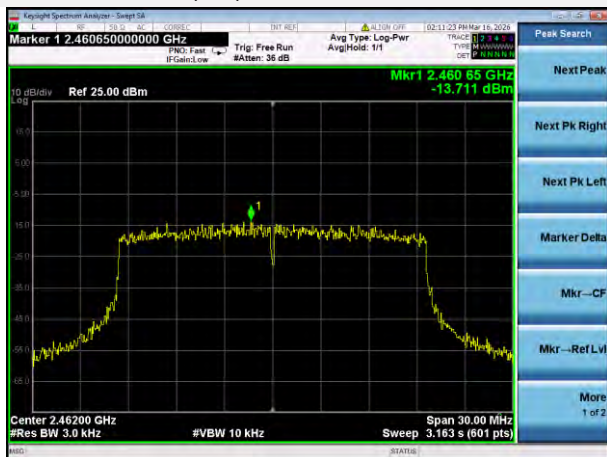
802.11ax-20 MHz(SU) LOW CHANNEL



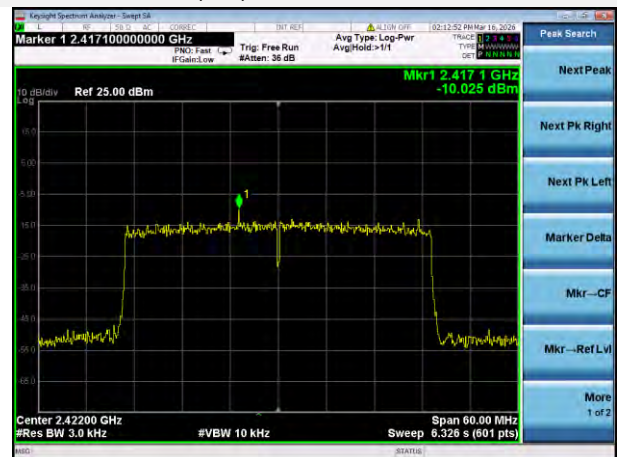
802.11ax-20 MHz(SU) MIDDLE CHANNEL



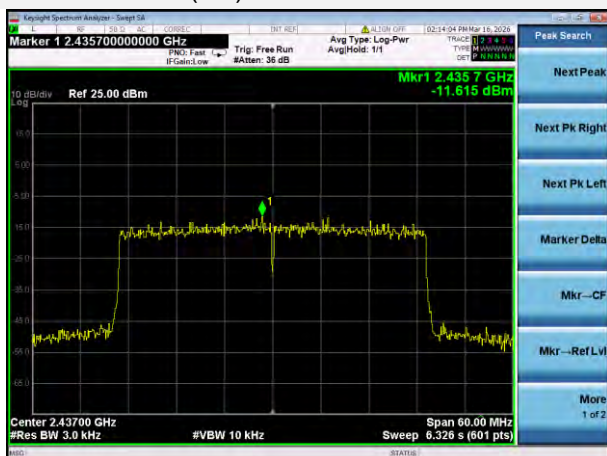
802.11ax-20 MHz(SU) HIGH CHANNEL



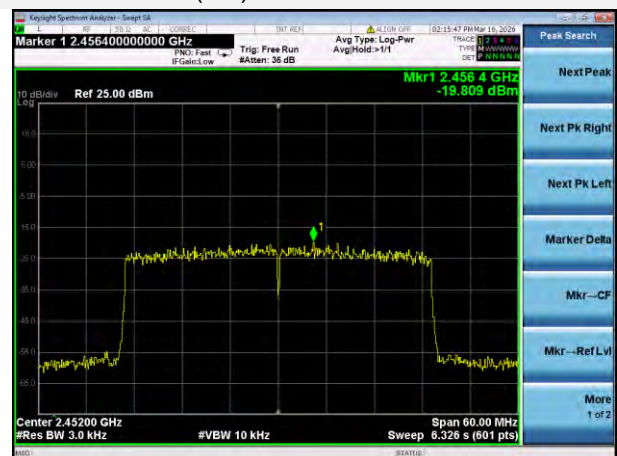
802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-EE26020319-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-EE26020319-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-EE26020319-AI.PDF”.

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--END OF REPORT--