ACCREDITED
CERT#4344.01

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:	A25004
Brand Name:	acer
Marketing Name:	A8-21M
FCC ID:	HLZA25004
ISED Number:	1754F-A25004
Test Standard:	47 CFR Part 15 Subpart C RSS-Gen Issue 5 RSS-247 Issue 3 (refer to section 3.1)
Sample Arrival Date:	Apr. 29, 2025
Test Date:	May 03, 2025 - Jun. 03, 2025
Date of Issue:	Aug. 08, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Julie Zhu

Checked by: Ye Hongji

Approved by: Sunny Zou
(Technical Director)

Revision History

Version	Issue Date	Revisions
Rev. 01	Aug. 08, 2025	Initial Issue

TABLE OF CONTENTS

1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

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

2 PRODUCT INFORMATION

2.1 Applicant Information

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

2.2 Manufacturer Information

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

2.3 General Description for Equipment under Test (EUT)

EUT Name	Tablet PC
Model Name Under Test	A25004
Series Model Name	N/A
Description of Model name differentiation	N/A
Marketing Name	A8-21M
Serial Number	22800078702
Hardware Version	868A537-20T25G-LC
Software Version	Acer_AV0V0_A8-21M_RV00RC01_EEA_GEN1
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

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

Frequency Range	802.11b/g/n/ax(20 MHz): 2.412 GHz - 2.462 GHz f_c = 2412 MHz + (N-1)*5 MHz, where - f_c = “Operating Frequency” in MHz, - N = “Channel Number” with the range from 1 to 11. 802.11n/ax(40 MHz): 2.422 GHz - 2.452 GHz f_c = 2412 MHz + (N-1)*5 MHz, where - f_c = “Operating Frequency” in MHz, - N = “Channel Number” with the range from 3 to 9.
Modulation Technology	DSSS, OFDM, OFDMA
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PIFA Antenna
Antenna Gain	-0.52 dBi
About the Product	Only the WIFI 802.11b, 802.11g, 802.11n (HT20/40) and 802.11ax (HE20/40) was tested in this report.

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

Modulation technology	Modulation Type	Transfer Rate (Mbps)(Single RF path)
DSSS (802.11b)	DBPSK	1
	DQPSK	2
	CCK	5.5/11
OFDM (802.11g)	BPSK	6/9
	QPSK	12/18
	16QAM	24/36
	64QAM	48/54
OFDM (802.11n-20 MHz)	BPSK	6.5/7.2
	QPSK	13/19.5/14.4/21.7
	16QAM	26/39/28.9/43.3
	64QAM	52/58.5/65/57.8/65/72.2
OFDM (802.11n-40 MHz)	BPSK	13.5/15
	QPSK	27/40.5/30/45
	16QAM	54/81/60/90
	64QAM	108/121.5/135/120/150
OFDMA (802.11ax-20 MHz)	BPSK	4
	QPSK	16/24/17/26
	16QAM	33/49/34/52
	64QAM	65/73/81/69/77/86
	256QAM	98/108/103/115
	1024QAM	122/135/129/143
OFDMA (802.11ax-40 MHz)	BPSK	8/9
	QPSK	33/49/34/52
	16QAM	65/98/69/103
	64QAM	130/146/163/138/155/172
	256QAM	195/217/207/229
	1024QAM	244/271/258/287

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

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

Note: The above EUT information in section 2.4 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional radiators of radio frequency equipment
2	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus
3	RSS-247 Issue 3	Digital Transmission Systems (DTSs), Frequency Hopping Systems(FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
4	ANSI C63.10-2013	American National Standard of 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, 5.4 (f)	N/A	Pass Note 1
2	Output Power	15.247 (b)	RSS-247, 5.4 (d)	ANNEX A.1	Pass
3	Occupied Bandwidth	15.247 (a)	RSS-GEN, 6.7; RSS-247, 5.2 (a)	ANNEX A.2	Pass
4	Conducted Spurious Emission	15.247 (d)	RSS-247, 5.5	ANNEX A.3	Pass
5	Band Edge(Authorized-band band-edge)	15.247 (d)	RSS-GEN, 8.9; RSS-247, 5.5	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, 5.5	ANNEX A.6	Pass
8	Band Edge(Restricted-band band-edge)	15.209; 15.247 (d)	RSS-247, 5.5	ANNEX A.7	Pass
9	Power spectral density (PSD)	15.247 (e)	RSS-247, 5.2 (b)	ANNEX A.8	Pass
10	Receiver Spurious Emissions	N/A	RSS-Gen, 7.3	N/A	N/A Note 2

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

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	39% to 70%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.7℃ to +24.2℃
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	ROHDE&SCHWARZ	FSV-40	101544	2024.12.16	2025.12.15
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060183	2024.08.01	2025.07.31
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2024.07.04	2025.07.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2024.08.01	2025.07.31
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	02460	2024.05.16	2027.05.15
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	140	2024.07.28	2027.07.27
Amplifier	COM-MV	LSCX_LNA1-12G-01	7210214	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	7210209	2024.08.01	2025.07.31
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	Agilent	N9038A	MY55330120	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-00867	2025.03.23	2028.03.22
Amplifier	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27
Anechoic Chamber	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2025.04.29	2026.04.28
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2025.02.14	2028.02.13

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.

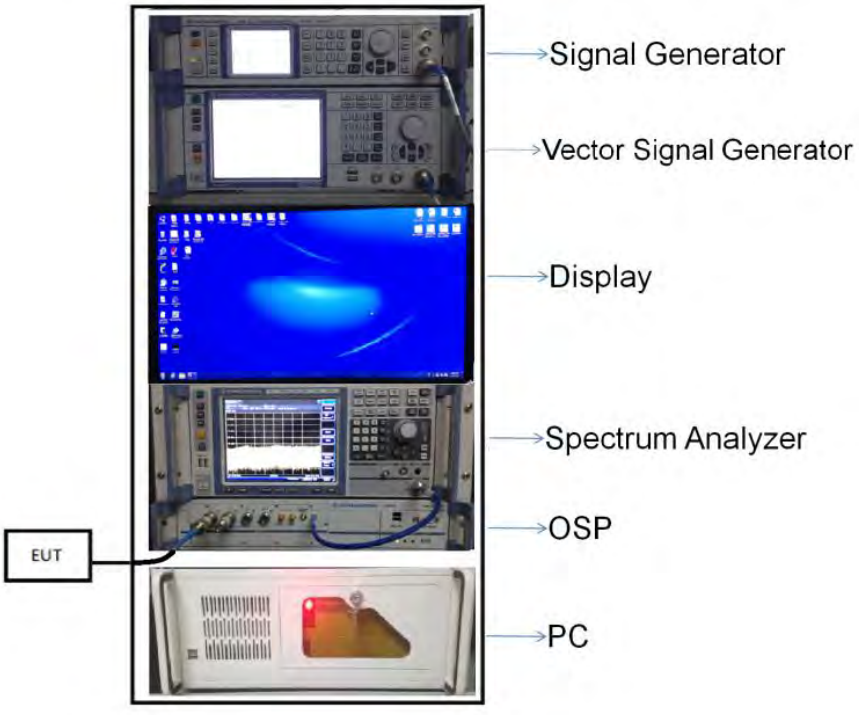
Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8℃
Humidity	4%

4.5 Description of Test Setup

4.5.1 For Antenna Port Test

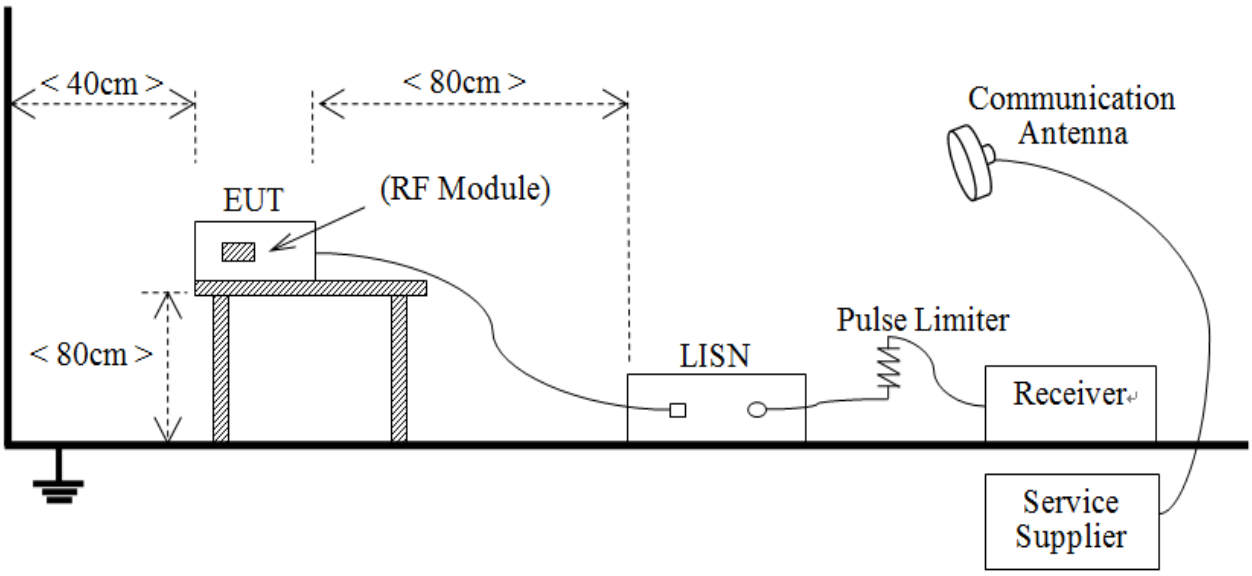
Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

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



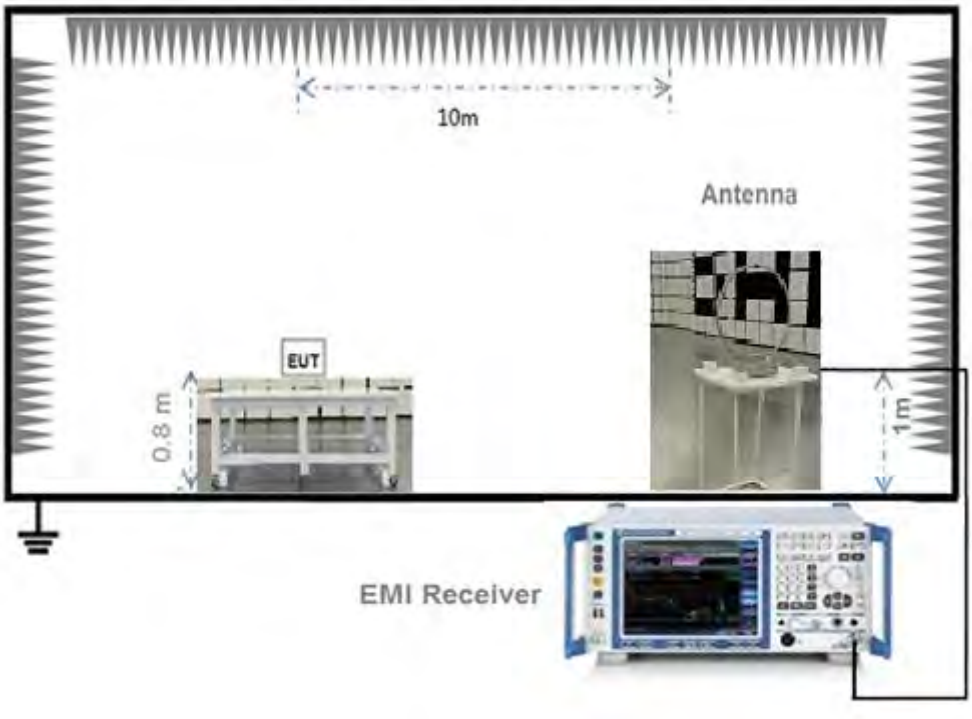
(Diagram 1)

4.5.2 For AC Power Supply Port Test



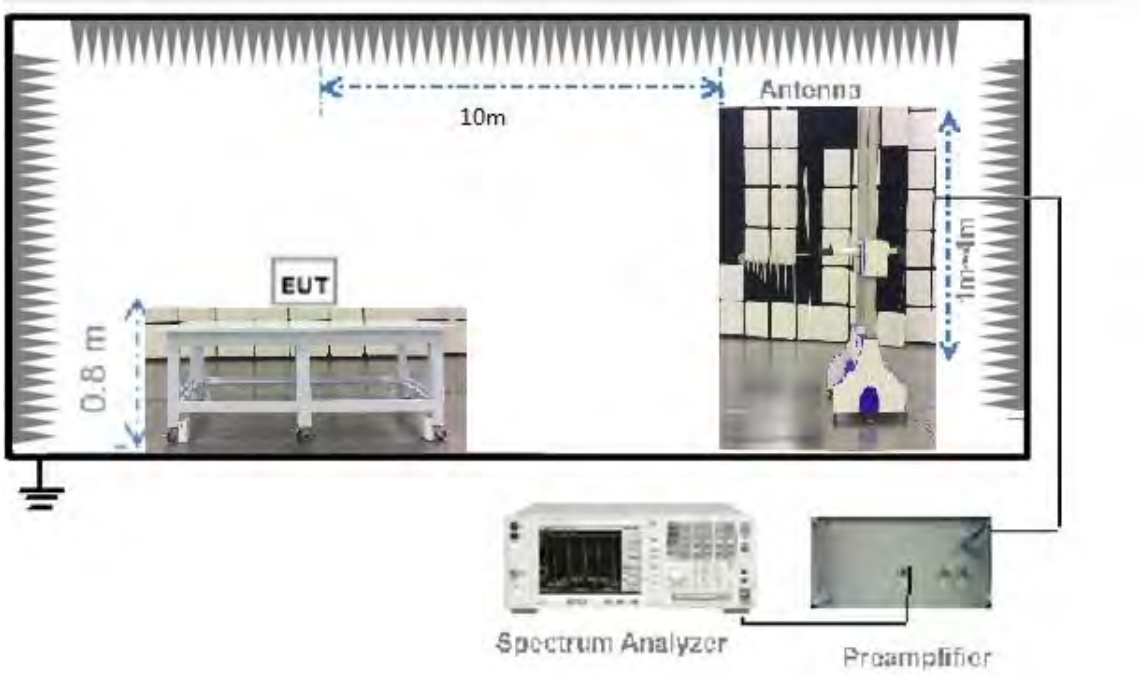
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



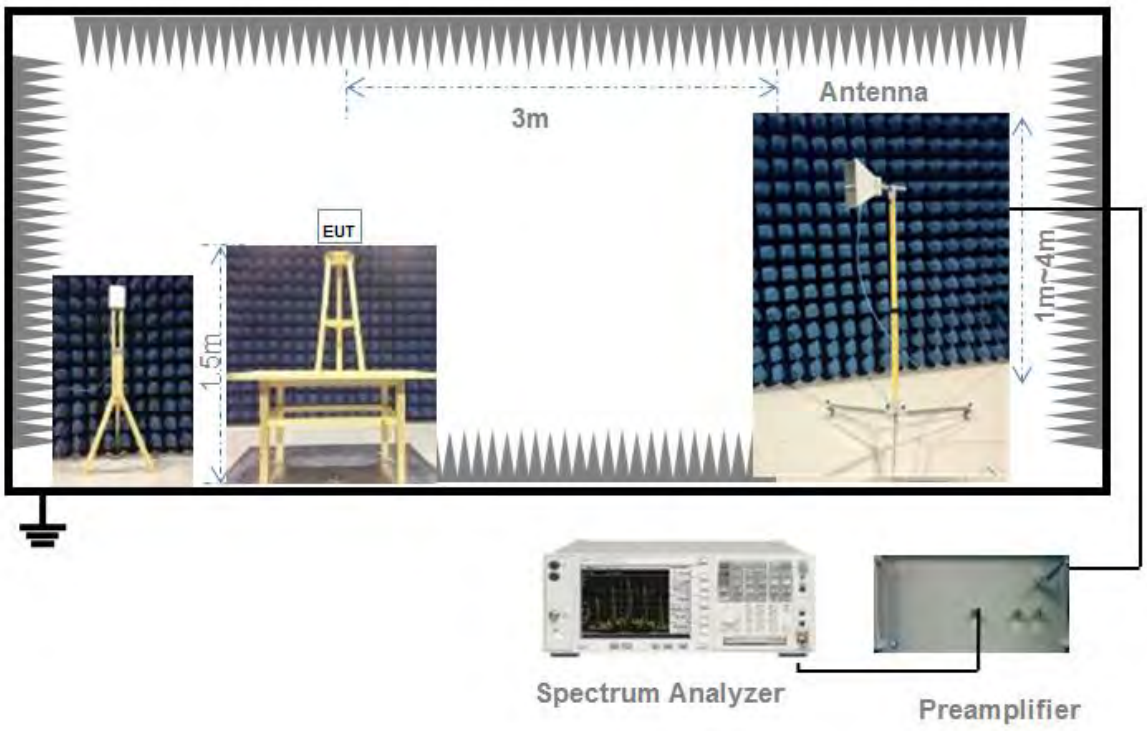
(Diagram 3)

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 = EIRP – 20log D + 104.8

where:

E = electric field strength in dBμV/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203; RSS-247, 5.4 (f)

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, 5.4 (d)

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.

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 10log (1/x), where x is the duty cycle.

Measurements of duty cycle

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

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

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

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

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

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC §15.247(a); RSS-GEN, 6.7; RSS-247, 5.2 (a)

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

Use the following spectrum analyzer settings:

Set RBW = 100 kHz.

Set the video bandwidth (VBW) $\geqslant$ 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, 5.5

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 ≥ 3 x RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

Emission level measurement

Use the following spectrum analyzer settings:

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

Set the RBW = 100 kHz.

Set the VBW ⩾ 3 x 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, 5.5

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 $\geqslant$ 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 $\geqslant$ 3 x RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

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

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

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

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

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

Attenuation: Auto (at least 10 dB preferred).

Sweep time: Coupled.

Resolution bandwidth: 100 kHz.

Video bandwidth: 300 kHz.

Detector: Peak.

Trace: Max hold.

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Conducted Emission

5.6.1 Limit

FCC §15.207; RSS-GEN, 8.8

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dBμV)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
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, 5.5

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

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

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

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

5.7.2 Test Setup

See section 4.5.3 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:

$E = EIRP – 20\log D + 104.8$

where:

E = electric field strength in dBμV/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

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

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

Peak power measurement procedure

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

a) RBW = as specified in Table 1.

b) VBW ≥ 3 x RBW.

c) Detector = Peak.

d) Sweep time = auto.

e) Trace mode = max hold.

f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be

longer for low duty cycle applications).

Table 1—RBW as a function of frequency

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

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

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

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

a) The EUT shall be configured to operate at the maximum achievable duty cycle.

b) Measure the duty cycle, x, of the transmitter output signal as described in section 6.0.

c) RBW = 1 MHz (unless otherwise specified).

d) VBW ≥ 3 x RBW.

e) Detector = RMS, if span/(# of points in sweep) ≤ (RBW/2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.

f) Averaging type = power (i.e., RMS).

1) As an alternative, the detector and averaging type may be set for linear voltage averaging.

2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.

g) Sweep time = auto.

h) Perform a trace average of at least 100 traces.

i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:

1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is 10 log(1/x), where x is the duty cycle.

2) If linear voltage averaging mode was used in step f), then the applicable correction factor is 20 log(1/x), where x is the duty cycle.

3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

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

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Band Edge (Restricted-band band-edge)

5.8.1 Limit

FCC §15.209&15.247(d); RSS-247, 5.5

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 ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold

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

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

5.8.4 Test Result

Please refer to ANNEX A.7.

5.9 Power Spectral density (PSD)

5.9.1 Limit

FCC §15.247(e); RSS-247, 5.2 (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 kHz $\leqslant$ RBW $\leqslant$ 100 kHz.

Set the VBW $\geqslant$ 3 RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.9.4 Test Result

Please refer to ANNEX A.8.

ANNEX A TEST RESULT

A.1 Output Power

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
802.11b	8.402	8.584	97.88%	0.09
802.11g	1.396	1.598	87.36%	0.59
802.11n-20 MHz	5.084	5.247	96.89%	0.14
802.11n-40 MHz	4.891	5.135	95.25%	0.21
802.11ax-20 MHz	3.870	4.078	94.90%	0.23
802.11ax-40 MHz	3.865	4.029	95.93%	0.18

Peak Power Test Data

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.99	19.91	30	1000	Pass
Middle	12.20	16.60			Pass
High	12.39	17.34			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.61	36.39	30	1000	Pass
Middle	15.34	34.20			Pass
High	15.66	36.81			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.57	36.06	30	1000	Pass
Middle	15.72	37.33			Pass
High	15.59	36.22			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.92	39.08	30	1000	Pass
Middle	15.85	38.46			Pass
High	15.72	37.33			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.93	62.09	30	1000	Pass
Middle	17.52	56.49			Pass
High	17.42	55.21			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.73	59.29	30	1000	Pass
Middle	17.57	57.15			Pass
High	17.46	55.72			Pass

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	9.87	9.71	30	1000	Pass
Middle	9.02	7.98			Pass
High	9.24	8.39			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	9.25	8.41	30	1000	Pass
Middle	8.98	7.91			Pass
High	9.31	8.53			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	9.43	8.77	30	1000	Pass
Middle	9.16	8.24			Pass
High	9.50	8.91			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	9.33	8.57	30	1000	Pass
Middle	9.35	8.61			Pass
High	9.57	9.06			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	9.47	8.85	30	1000	Pass
Middle	9.54	8.99			Pass
High	9.37	8.65			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	9.82	9.59	30	1000	Pass
Middle	9.68	9.29			Pass
High	9.56	9.04			Pass

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

802.11b Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	12.47	17.66	36	4	Pass
Middle	11.68	14.72			Pass
High	11.87	15.38			Pass

802.11g Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	15.09	32.28	36	4	Pass
Middle	14.82	30.34			Pass
High	15.14	32.66			Pass

802.11n-20 MHz Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	15.05	31.99	36	4	Pass
Middle	15.20	33.11			Pass
High	15.07	32.14			Pass

802.11n-40 MHz Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	15.40	34.67	36	4	Pass
Middle	15.33	34.12			Pass
High	15.20	33.11			Pass

802.11ax-20 MHz(SU) Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	17.41	55.08	36	4	Pass
Middle	17.00	50.12			Pass
High	16.90	48.98			Pass

802.11ax-40 MHz(SU) Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	17.21	52.60	36	4	Pass
Middle	17.05	50.70			Pass
High	16.94	49.43			Pass

A.2 Occupied Bandwidth

Test Data

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	9.150146	13.197596	≥500
Middle	9.100098	13.171640	≥500
High	9.100098	13.180354	≥500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	16.350098	17.898099	≥500
Middle	16.399902	18.006403	≥500
High	16.399902	17.841582	≥500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	17.350098	18.960974	≥500
Middle	17.350098	18.980600	≥500
High	17.000000	18.999283	≥500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	35.649902	36.595427	≥500
Middle	35.400146	36.579362	≥500
High	35.850000	36.612173	≥500

802.11ax-20 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	18.649902	19.502704	≥500
Middle	18.449951	19.501452	≥500
High	18.850098	19.415624	≥500

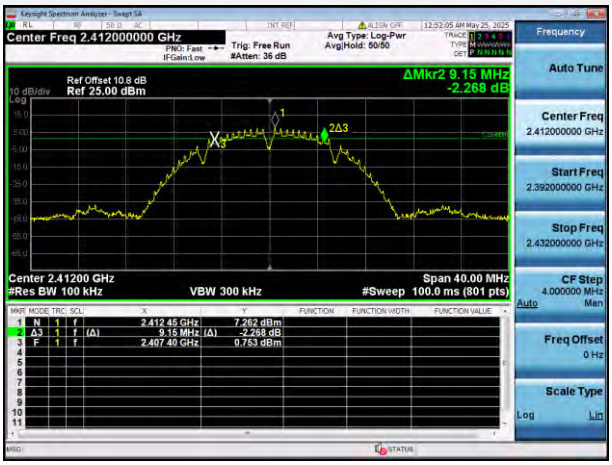
802.11ax-40 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	36.349854	37.920839	≥500
Middle	36.849854	37.916671	≥500
High	37.449951	37.939550	≥500

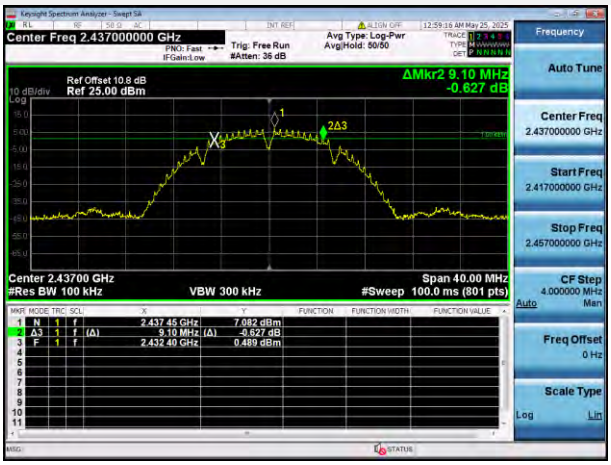
Test Plots

6 dB Bandwidth

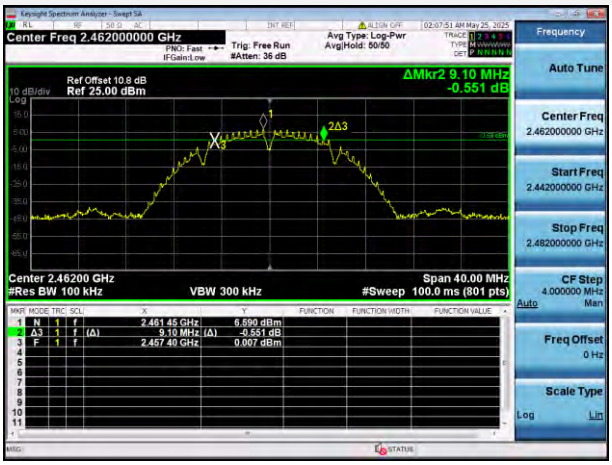
802.11b LOW CHANNEL



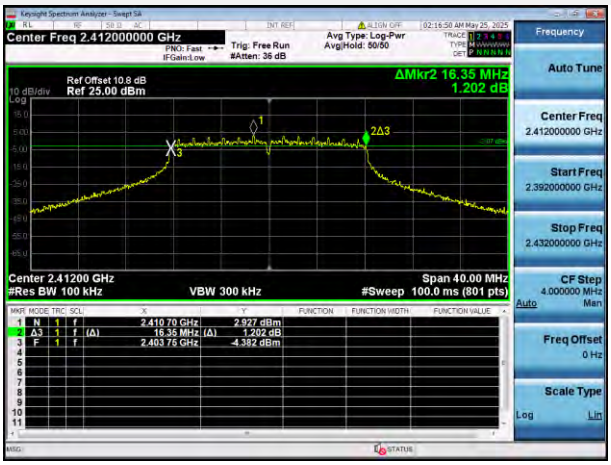
802.11b MIDDLE CHANNEL



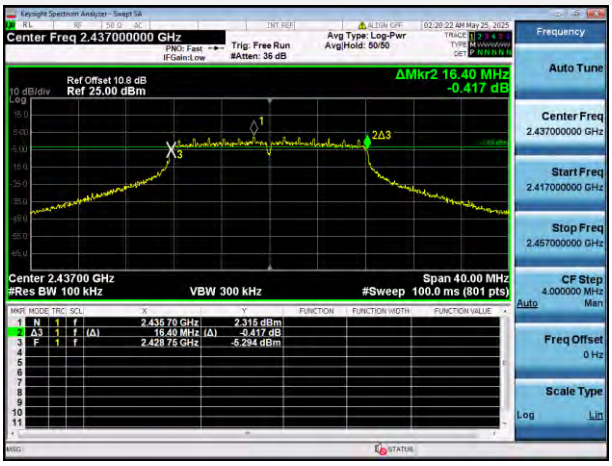
802.11b HIGH CHANNEL



802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL

802.11n-20 MHz LOW CHANNEL

802.11n-20 MHz MIDDLE CHANNEL

802.11n-20 MHz HIGH CHANNEL

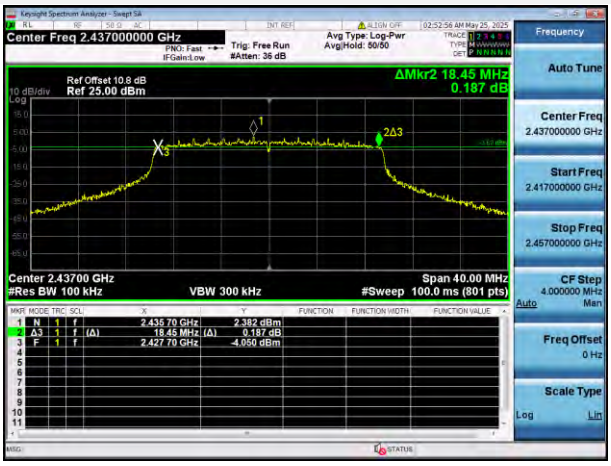
802.11n-40 MHz LOW CHANNEL

802.11n-40 MHz MIDDLE CHANNEL

802.11n-40 MHz HIGH CHANNEL

802.11ax-20 MHz(SU) LOW CHANNEL

802.11ax-20 MHz(SU) MIDDLE CHANNEL



802.11ax-20 MHz(SU) HIGH CHANNEL

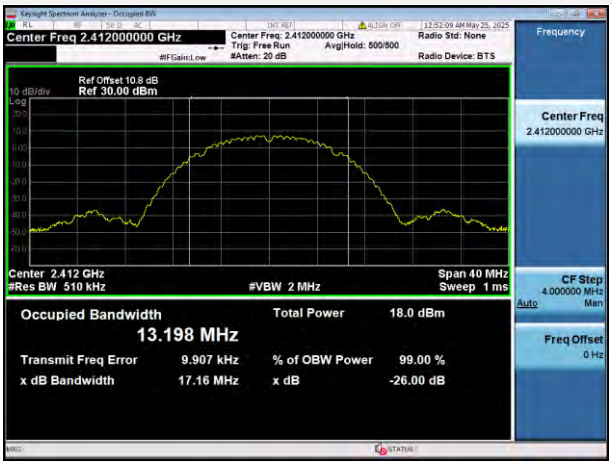
802.11ax-40 MHz(SU) LOW CHANNEL

802.11ax-40 MHz(SU) MIDDLE CHANNEL

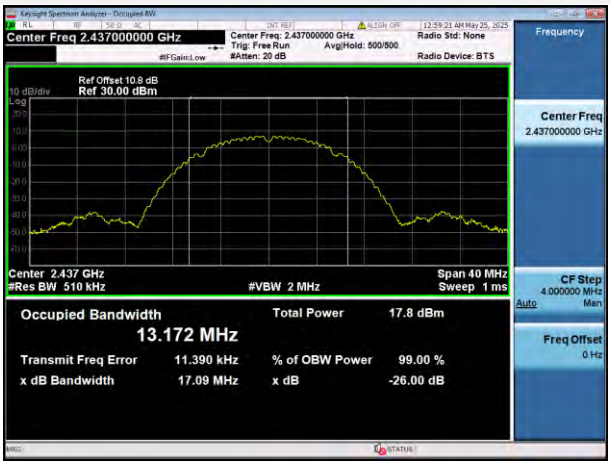
802.11ax-40 MHz(SU) HIGH CHANNEL

99% Bandwidth

802.11b LOW CHANNEL

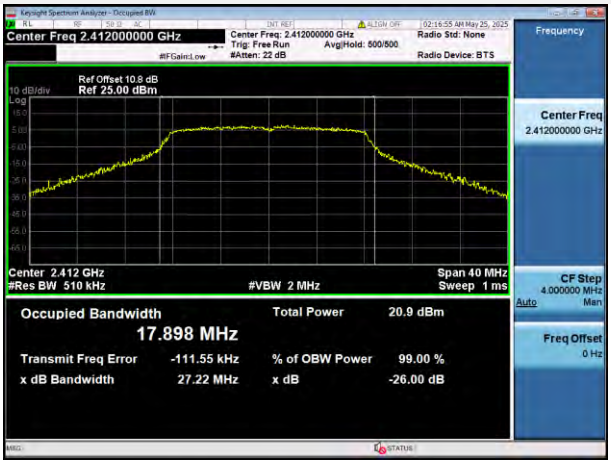


802.11b MIDDLE CHANNEL

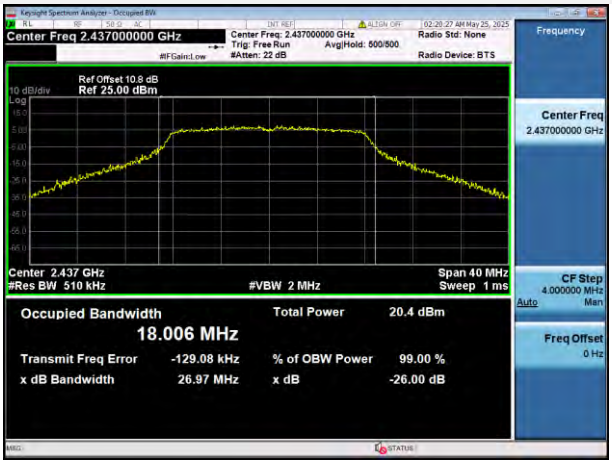


802.11b HIGH CHANNEL

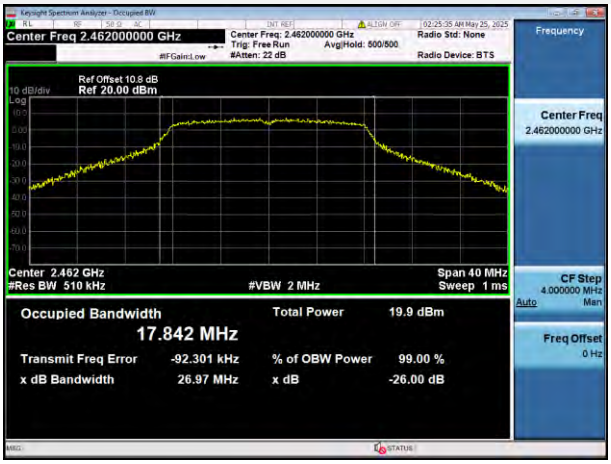
802.11g LOW CHANNEL



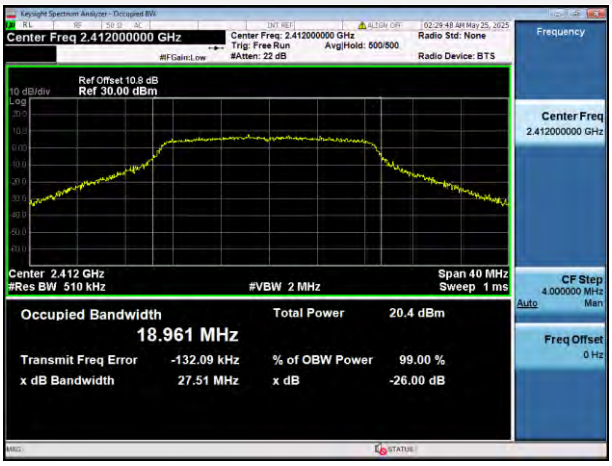
802.11g MIDDLE CHANNEL



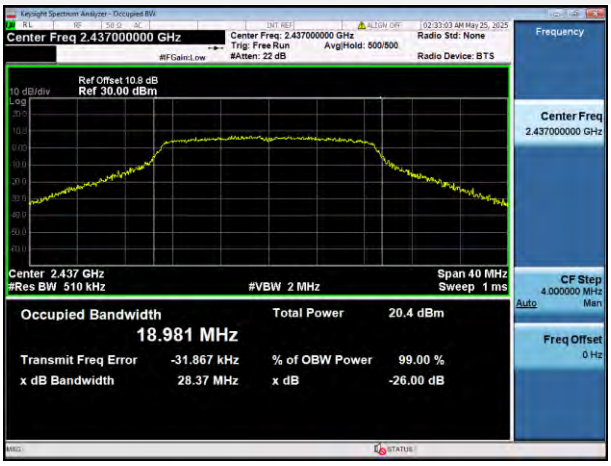
802.11g HIGH CHANNEL



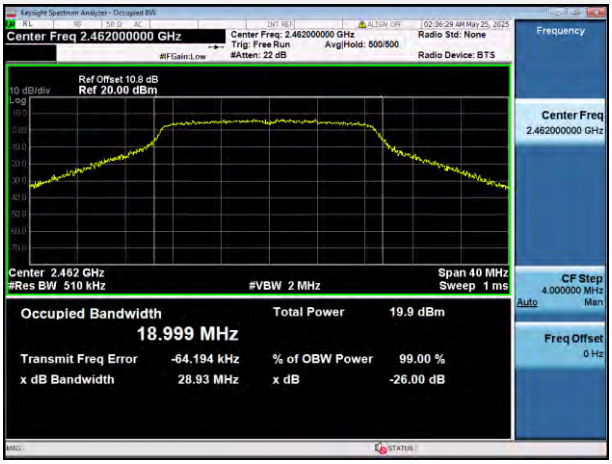
802.11n-20 MHz LOW CHANNEL



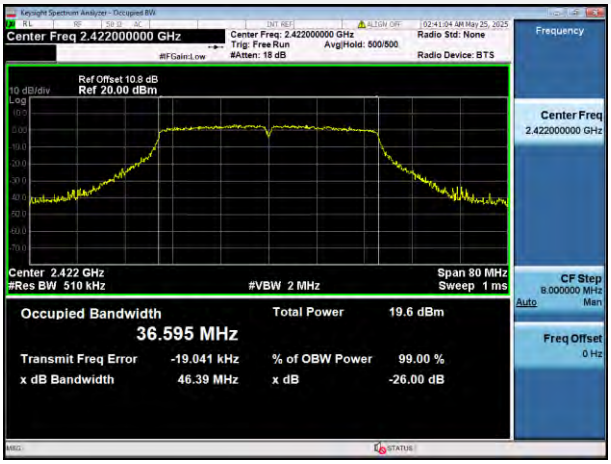
802.11n-20 MHz MIDDLE CHANNEL



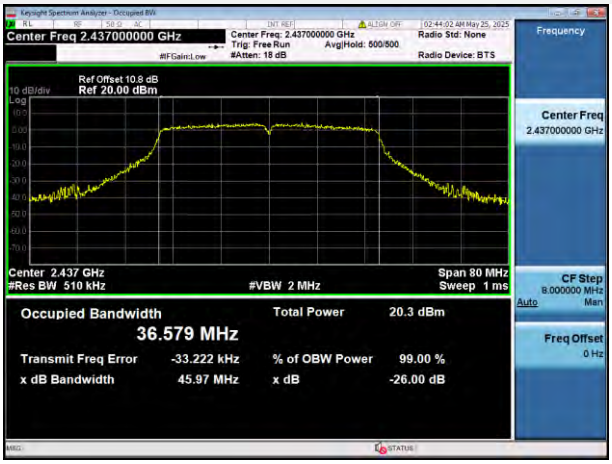
802.11n-20 MHz HIGH CHANNEL



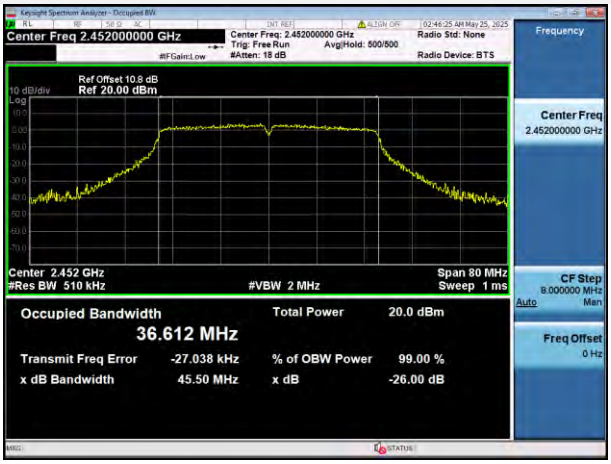
802.11n-40 MHz LOW CHANNEL



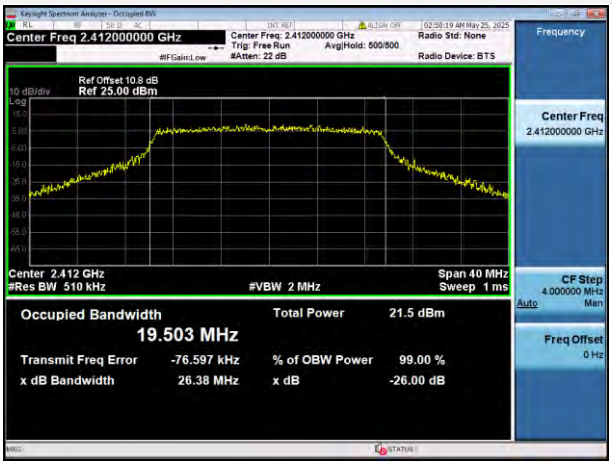
802.11n-40 MHz MIDDLE CHANNEL



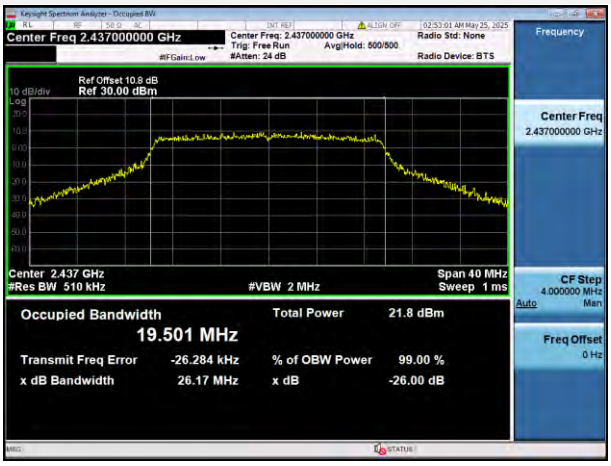
802.11n-40 MHz HIGH CHANNEL



802.11ax-20 MHz(SU) LOW CHANNEL

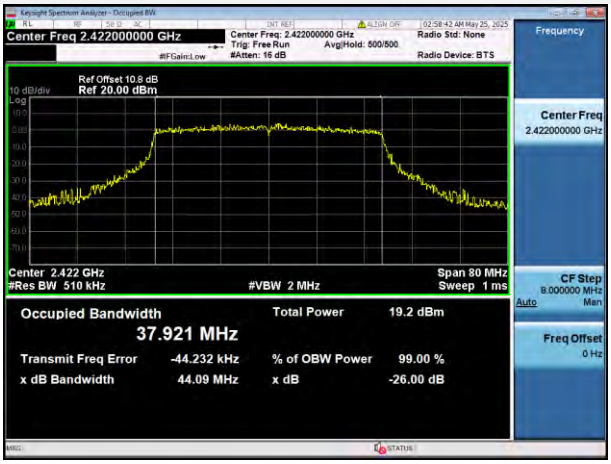


802.11ax-20 MHz(SU) MIDDLE CHANNEL

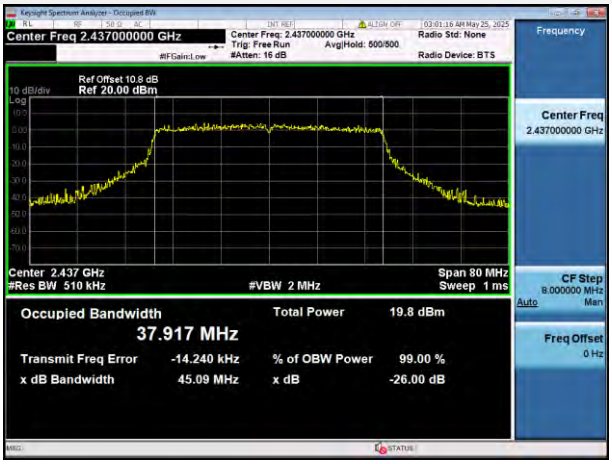


802.11ax-20 MHz(SU) HIGH CHANNEL

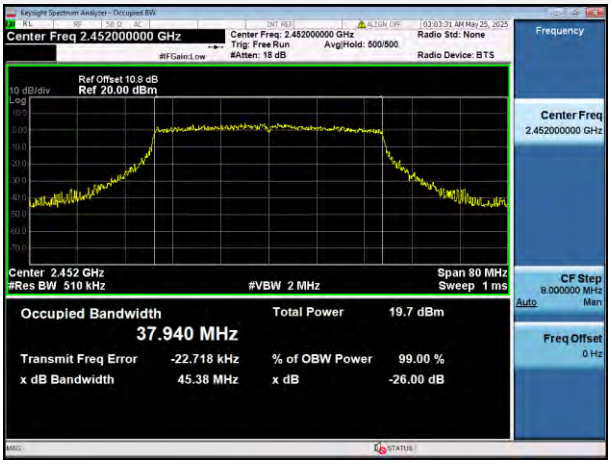
802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) HIGH CHANNEL



A.3 Conducted Spurious Emissions

Test Data

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-38.74	1.74	-18.26	Pass
Middle	-36.77	0.86	-19.14	Pass
High	-36.99	1.14	-18.86	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-37.13	-1.35	-21.35	Pass
Middle	-36.49	-1.39	-21.39	Pass
High	-36.03	-1.56	-21.56	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.07	-1.21	-21.21	Pass
Middle	-36.21	-0.75	-20.75	Pass
High	-36.45	-1.57	-21.57	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.90	-3.83	-23.83	Pass
Middle	-38.62	-4.08	-24.08	Pass
High	-36.66	-3.97	-23.97	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	-36.61	-0.60	-20.60	Pass
Middle	-37.05	-1.54	-21.54	Pass
High	-36.55	-1.26	-21.26	Pass

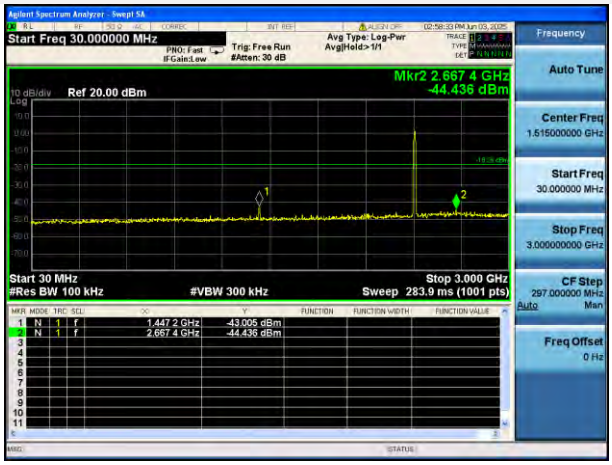
802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-37.24	-3.77	-23.77	Pass
Middle	-39.59	-3.97	-23.97	Pass
High	-36.62	-3.90	-23.90	Pass

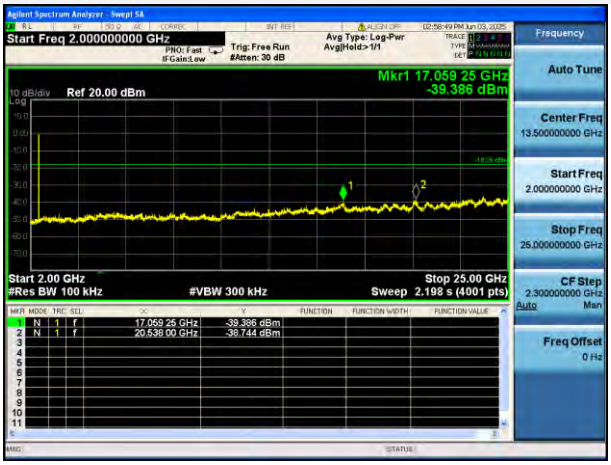
Test Plots

802.11b LOW CHANNEL CARRIER LEVEL

802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

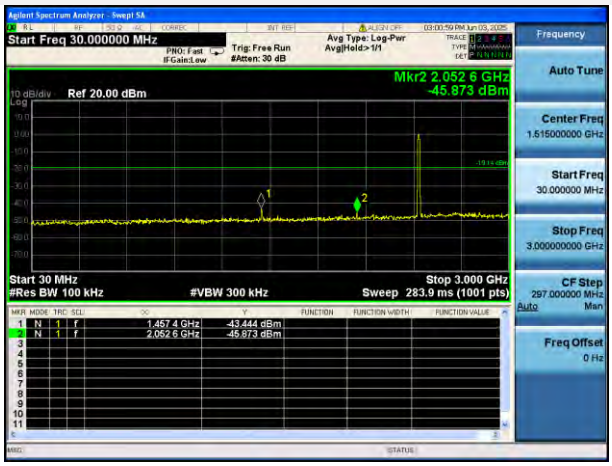


802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

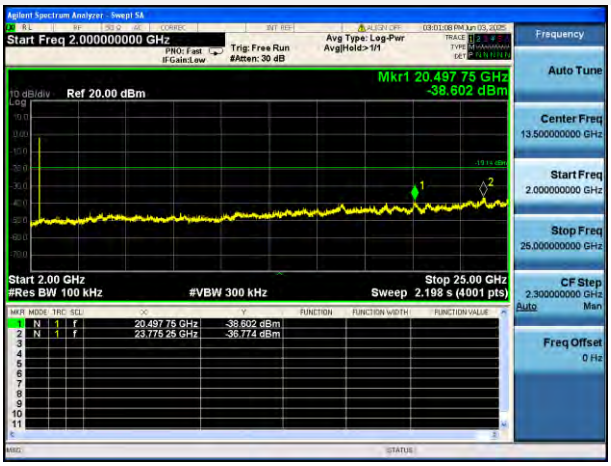


802.11b MIDDLE CHANNEL CARRIER LEVEL

802.11b MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz

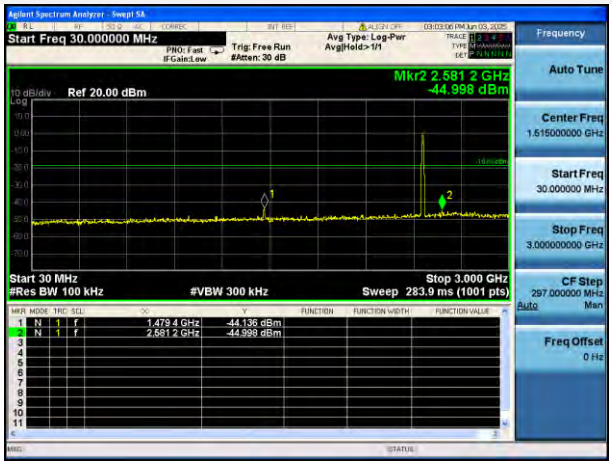


802.11b MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

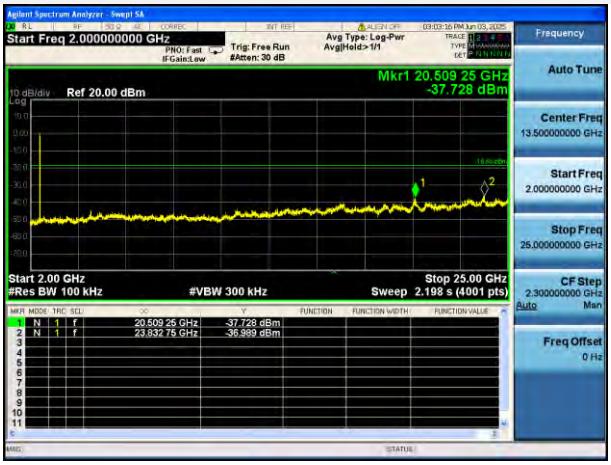


802.11b HIGH CHANNEL CARRIER LEVEL

802.11b HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz

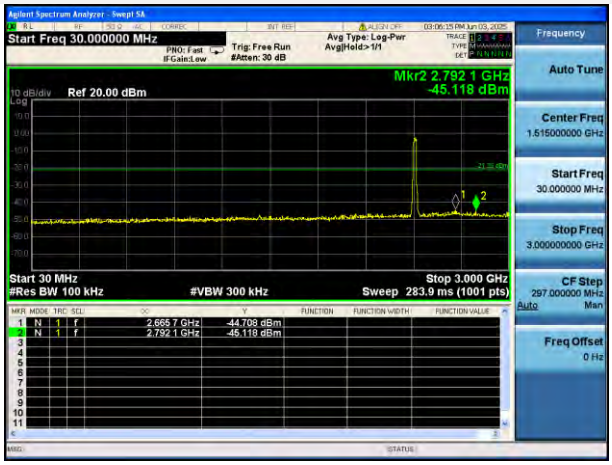


802.11b HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

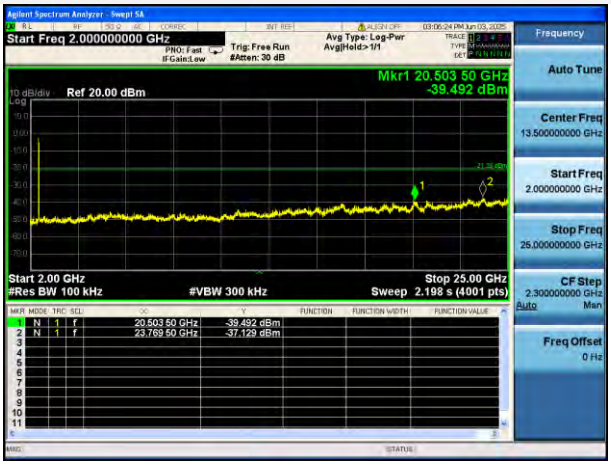


802.11g LOW CHANNEL CARRIER LEVEL

802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

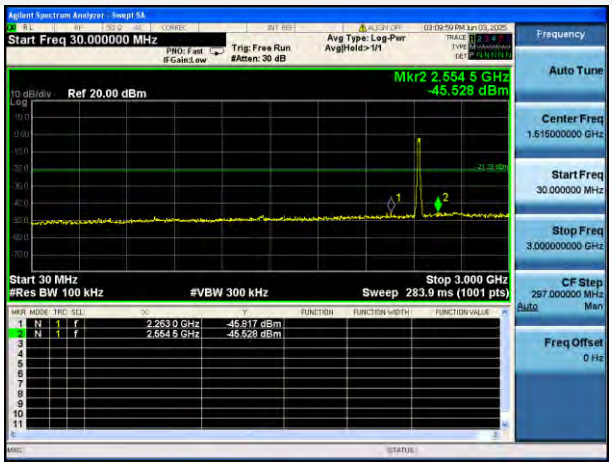


802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

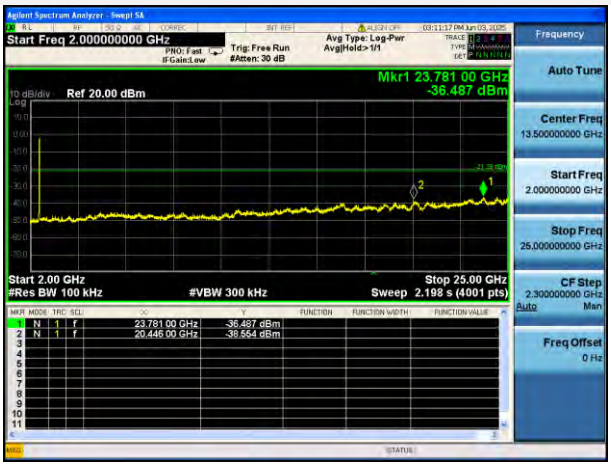


802.11g MIDDLE CHANNEL CARRIER LEVEL

802.11g MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz

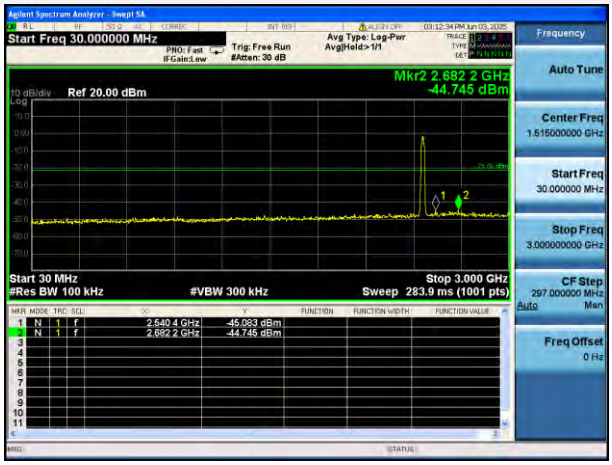


802.11g MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

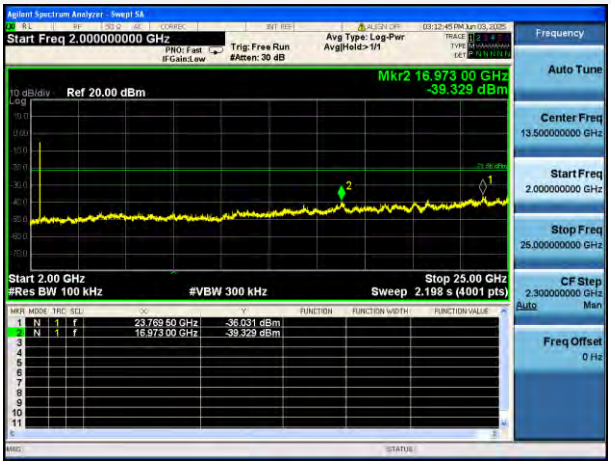


802.11g HIGH CHANNEL CARRIER LEVEL

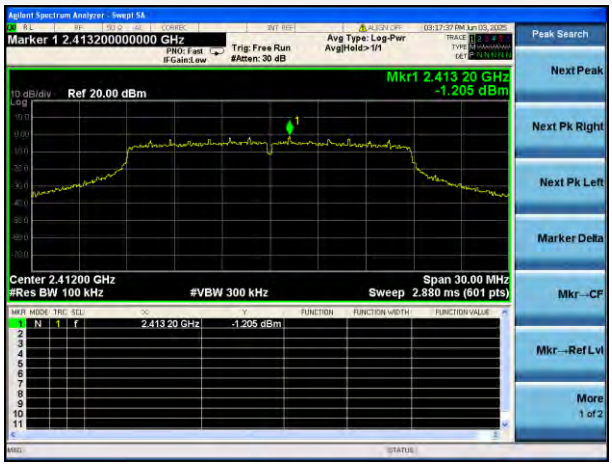
802.11g HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



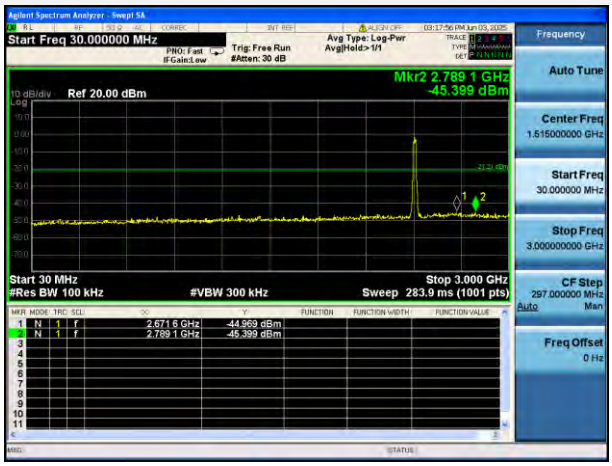
802.11g HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



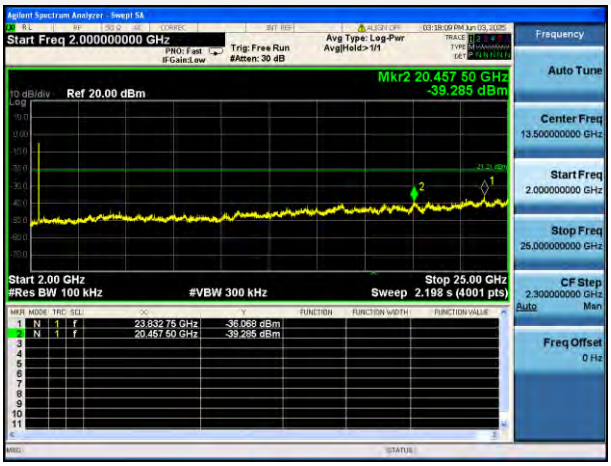
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL



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

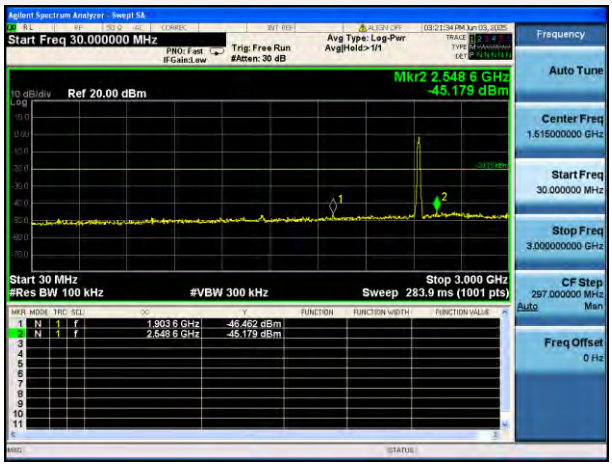


802.11n-20 MHz LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

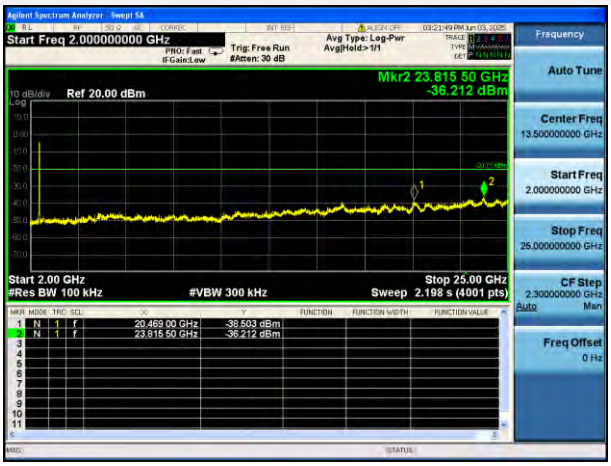


802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL

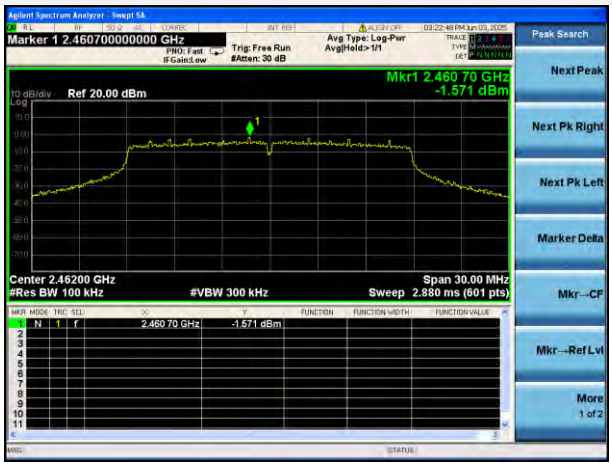
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



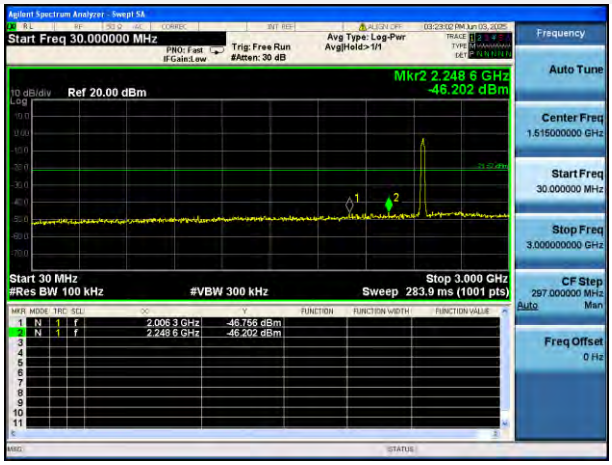
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



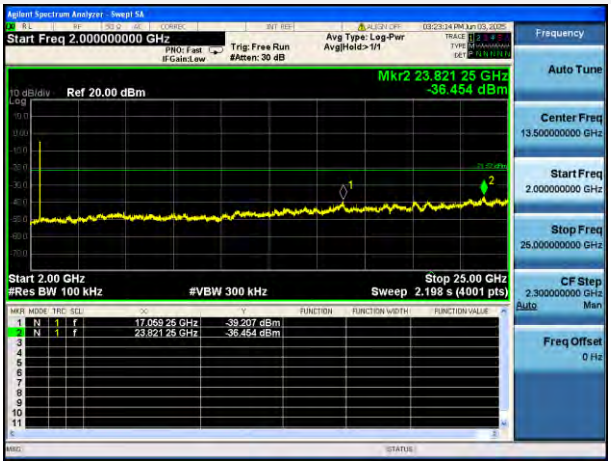
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



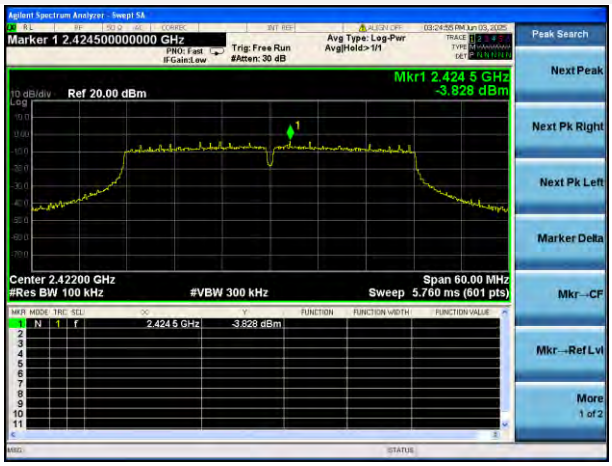
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



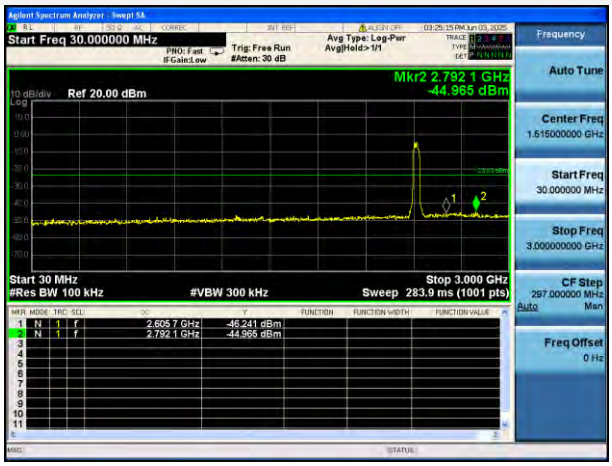
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



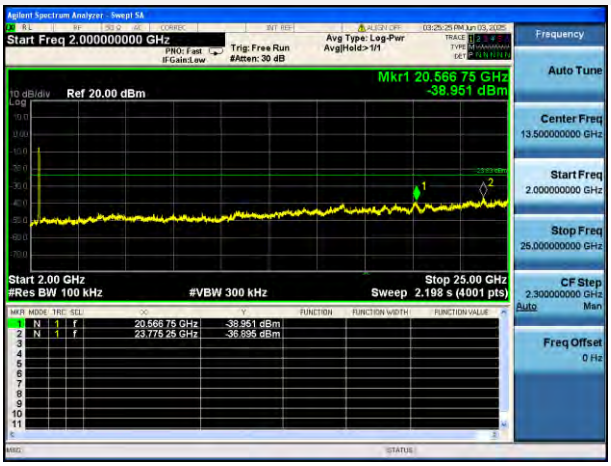
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL



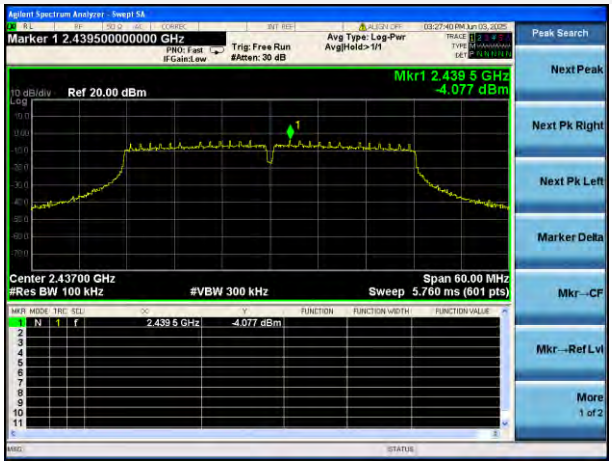
802.11n-40 MHz LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



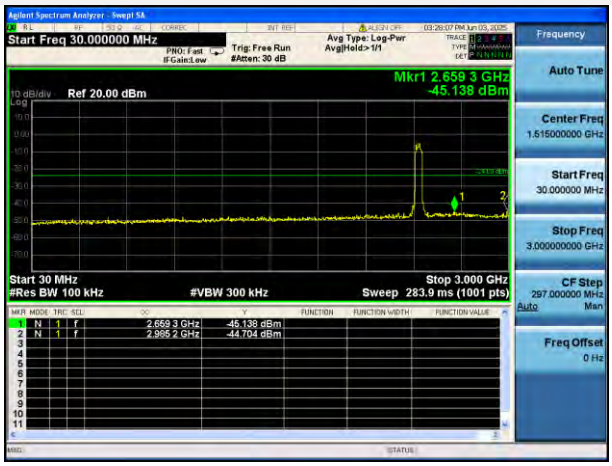
802.11n-40 MHz LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



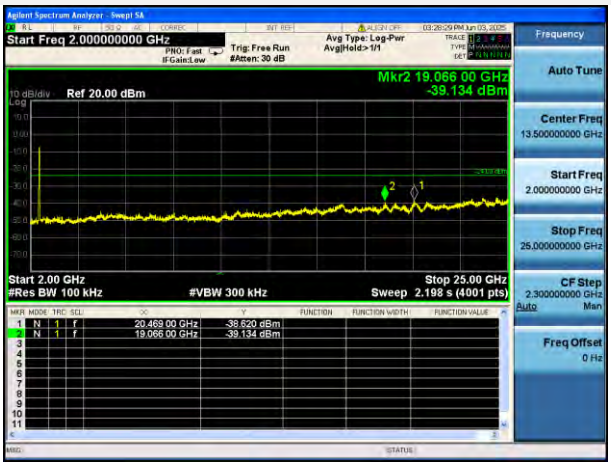
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



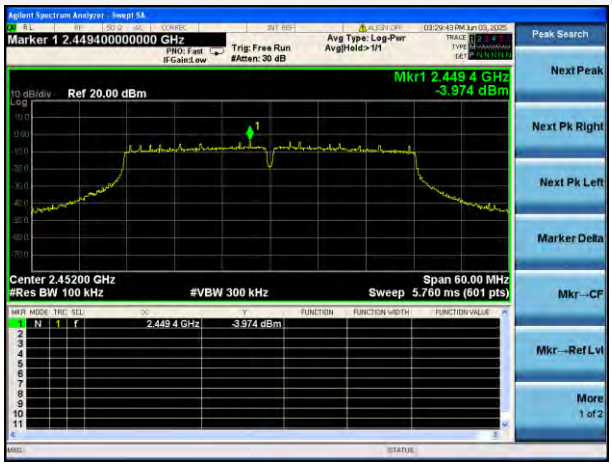
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



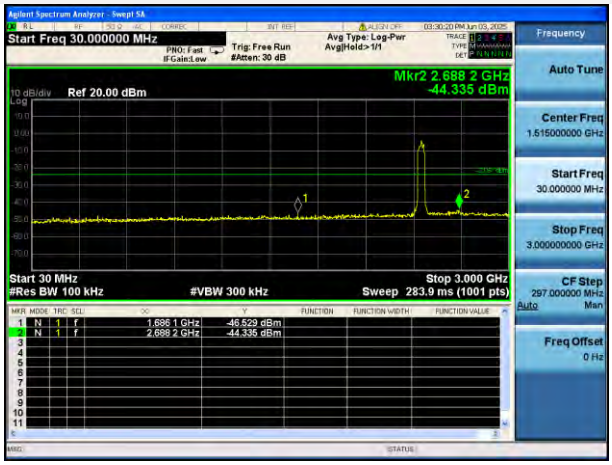
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



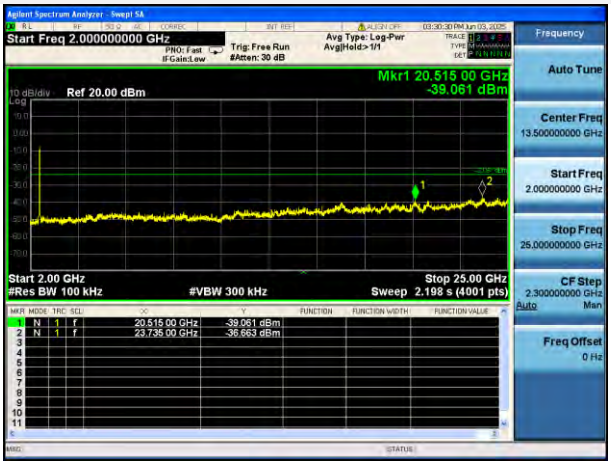
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



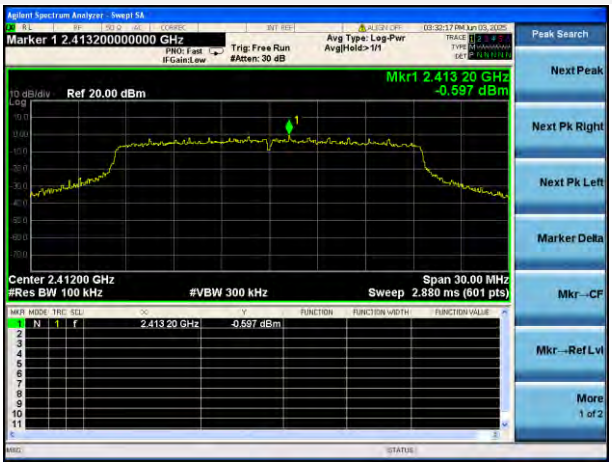
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



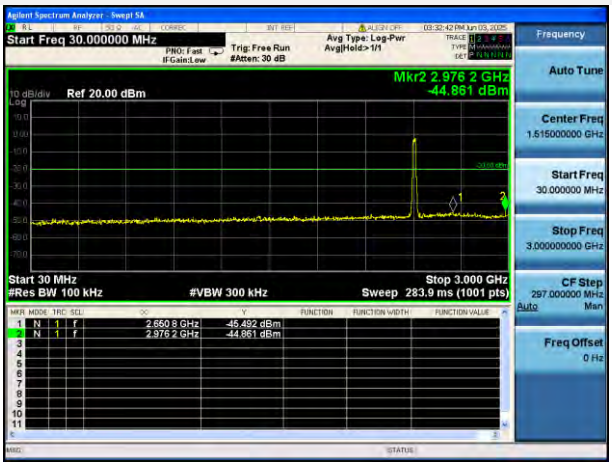
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



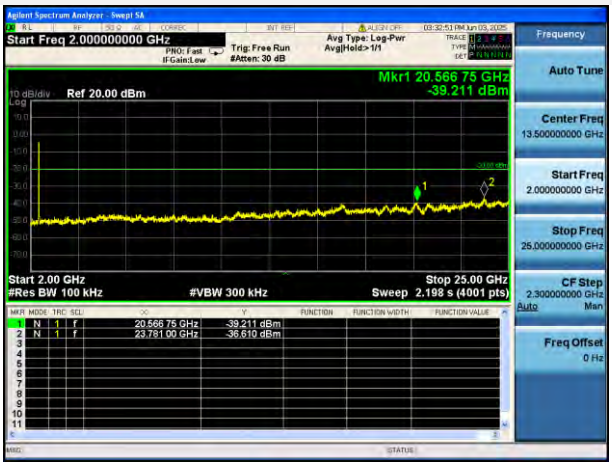
802.11ax-20 MHz(SU) LOW CHANNEL CARRIER LEVEL



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

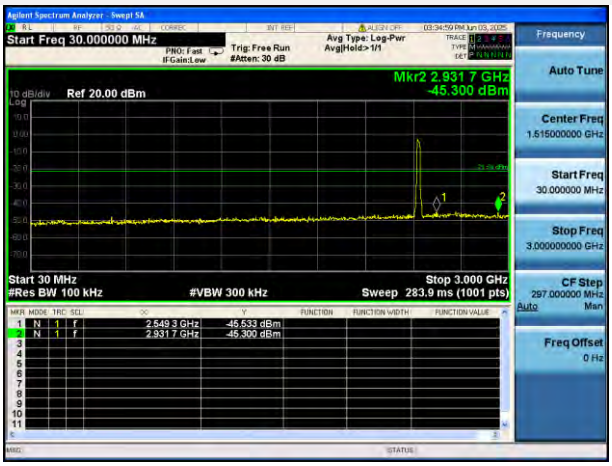


802.11ax-20 MHz(SU) LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

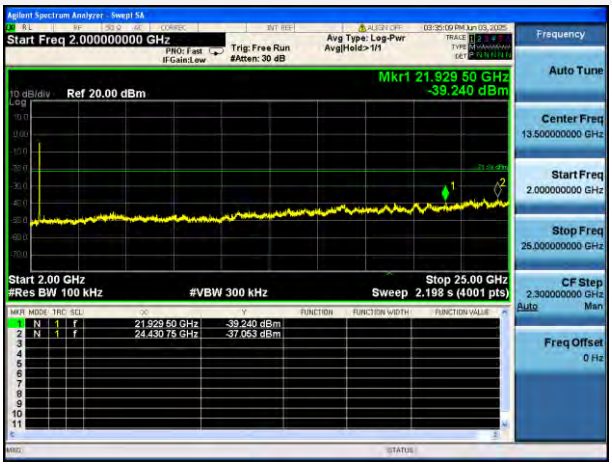


802.11ax-20 MHz(SU) MIDDLE CHANNEL CARRIER LEVEL

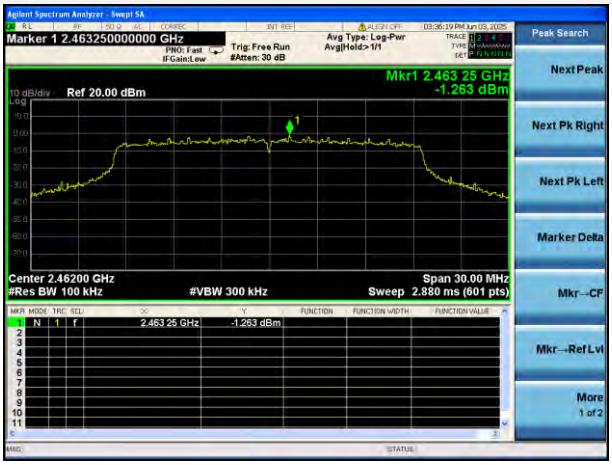
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



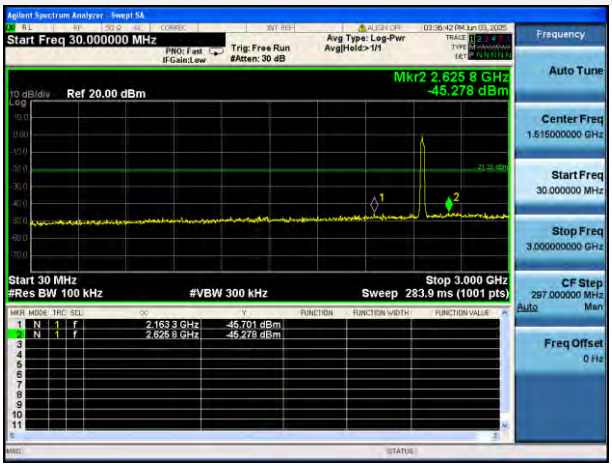
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



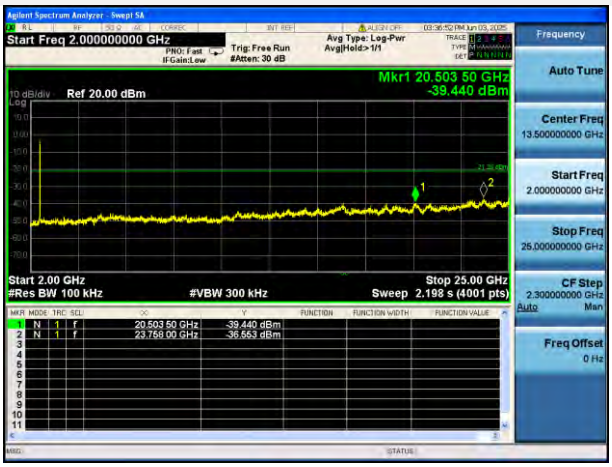
802.11ax-20 MHz(SU) HIGH CHANNEL CARRIER LEVEL



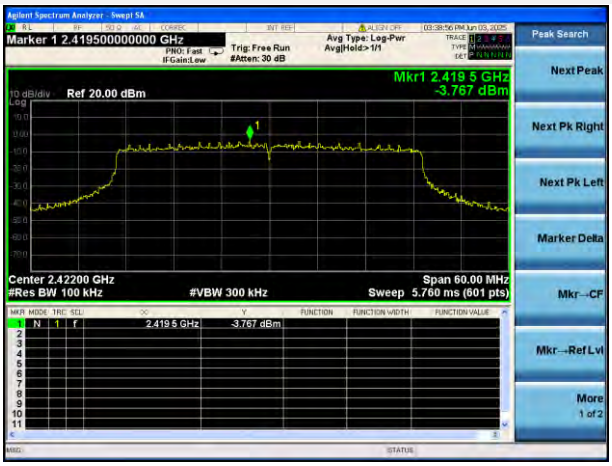
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



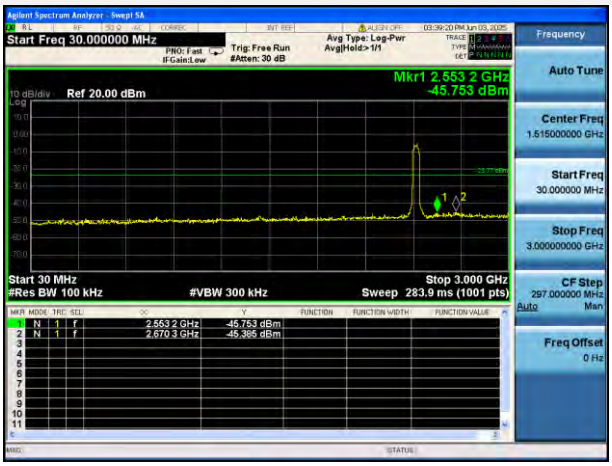
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



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

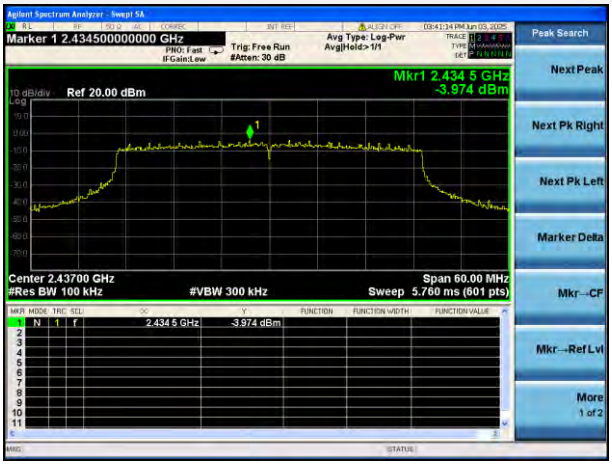


802.11ax-40 MHz(SU) LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

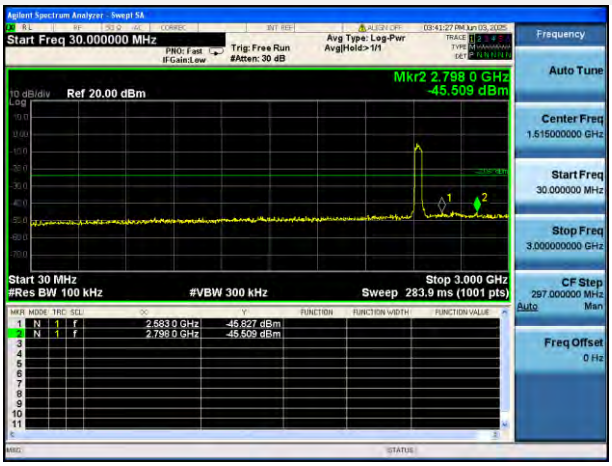


802.11ax-40 MHz(SU) LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

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



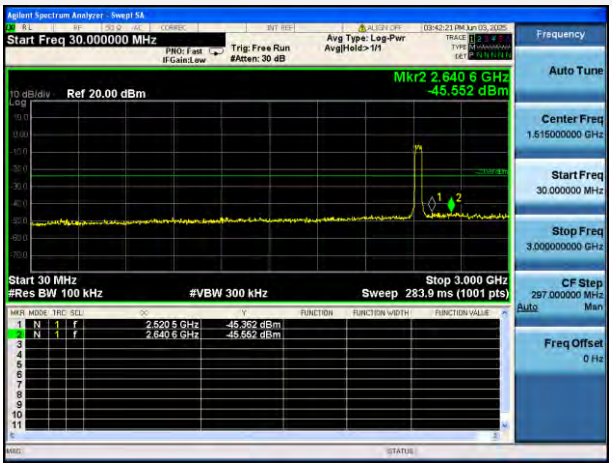
802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



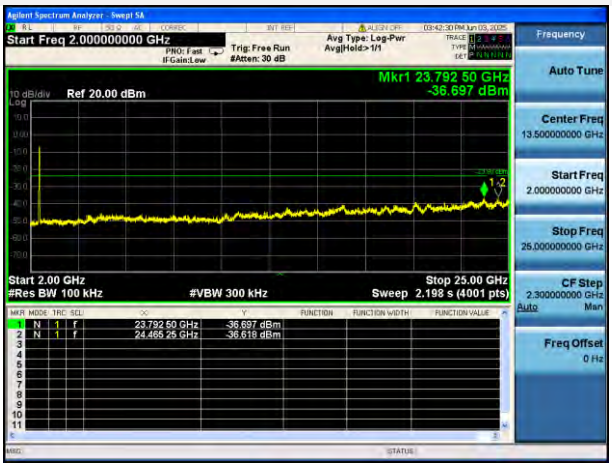
802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

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	-46.15	1.74	-18.26	Pass
High Channel	-49.00	1.14	-18.86	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-28.34	-1.35	-21.35	Pass
High Channel	-45.43	-1.56	-21.56	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-28.62	-1.21	-21.21	Pass
High Channel	-45.44	-1.57	-21.57	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-33.29	-3.83	-23.83	Pass
High Channel	-41.40	-3.97	-23.97	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	-27.89	-0.60	-20.60	Pass
High Channel	-44.87	-1.26	-21.26	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	-32.74	-3.77	-23.77	Pass
High Channel	-40.36	-3.90	-23.90	Pass

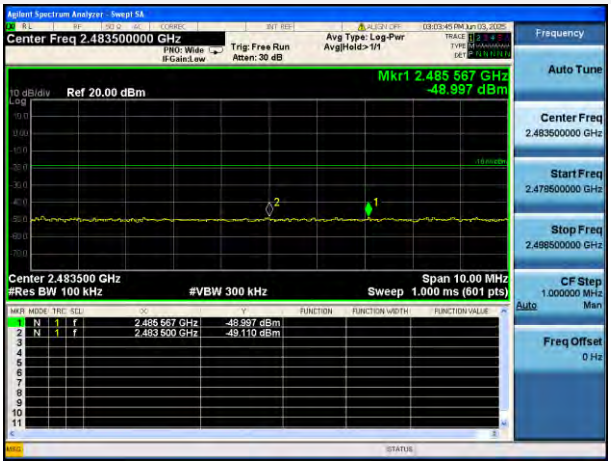
Test Plots

802.11b LOW CHANNEL, CARRIER LEVEL

802.11b LOW CHANNEL, BAND EDGE

802.11b HIGH CHANNEL, CARRIER LEVEL

802.11b HIGH CHANNEL, BAND EDGE

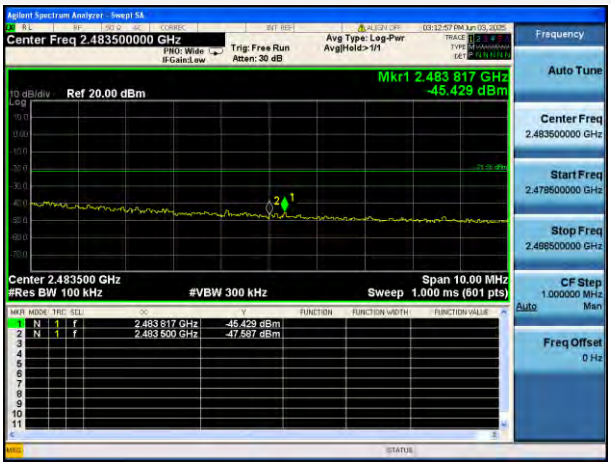


802.11g LOW CHANNEL, CARRIER LEVEL

802.11g LOW CHANNEL, BAND EDGE

802.11g HIGH CHANNEL, CARRIER LEVEL

802.11g HIGH CHANNEL, BAND EDGE

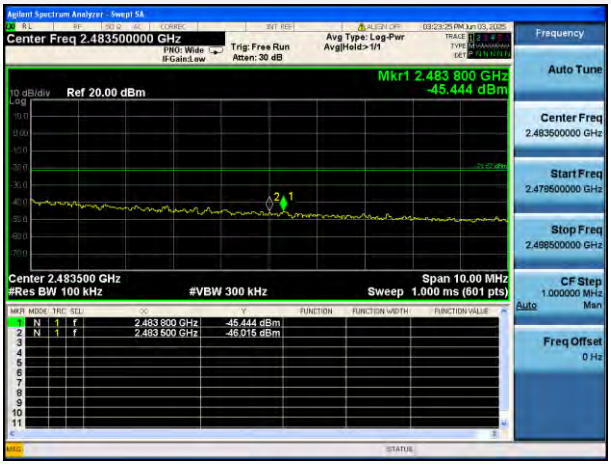


802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL

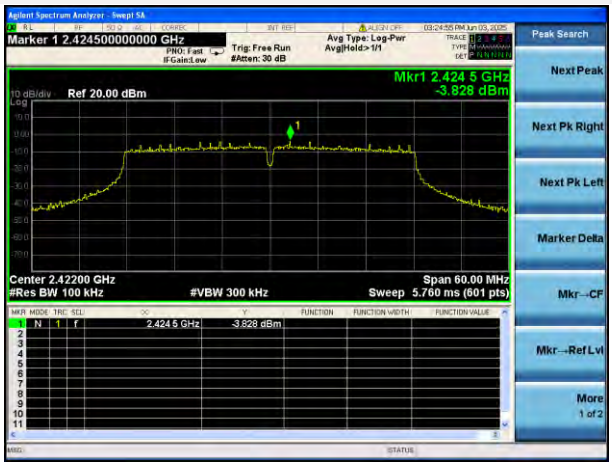
802.11n-20 MHz LOW CHANNEL, BAND EDGE

802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL

802.11n-20 MHz HIGH CHANNEL, BAND EDGE

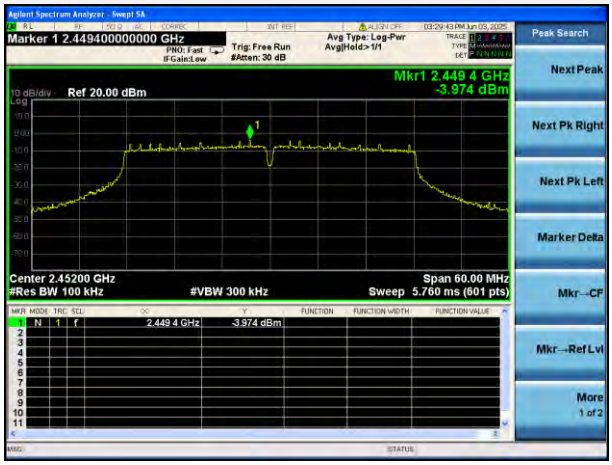


802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL

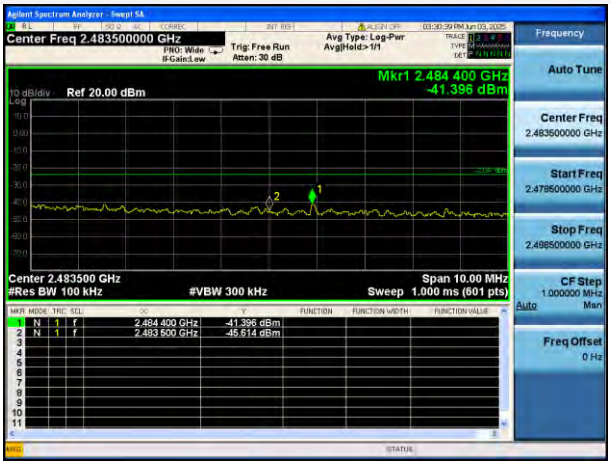


802.11n-40 MHz LOW CHANNEL, BAND EDGE

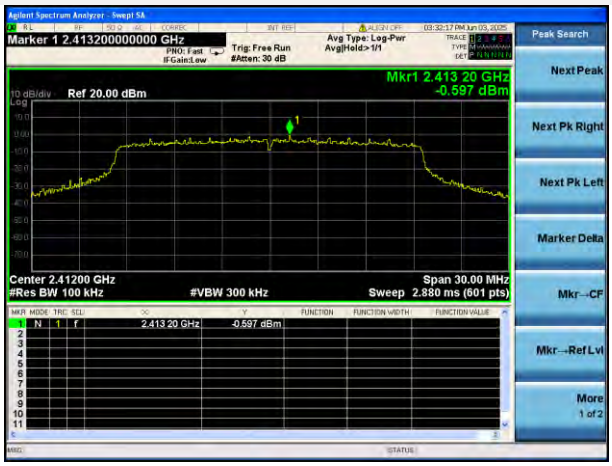
802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE

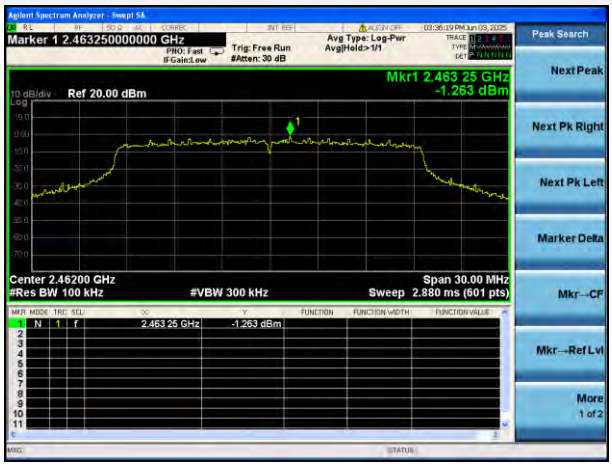


802.11ax-20 MHz(SU) LOW CHANNEL, CARRIER LEVEL

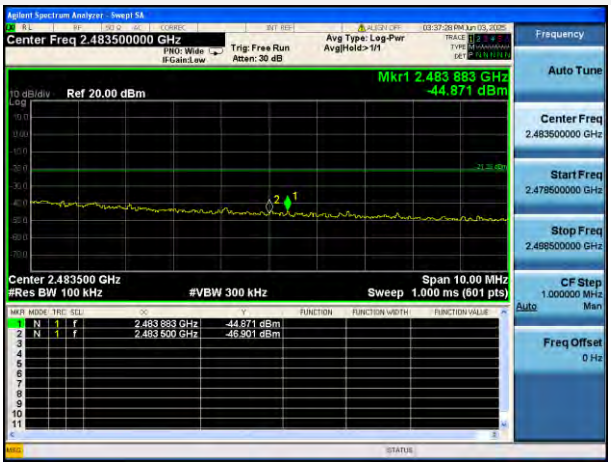


802.11ax-20 MHz(SU) LOW CHANNEL, BAND EDGE

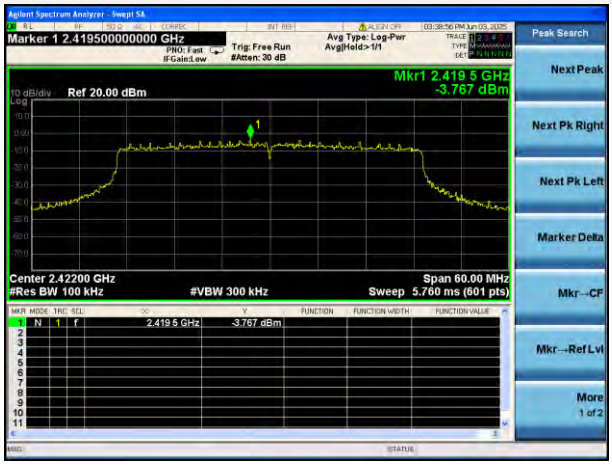
802.11ax-20 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



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

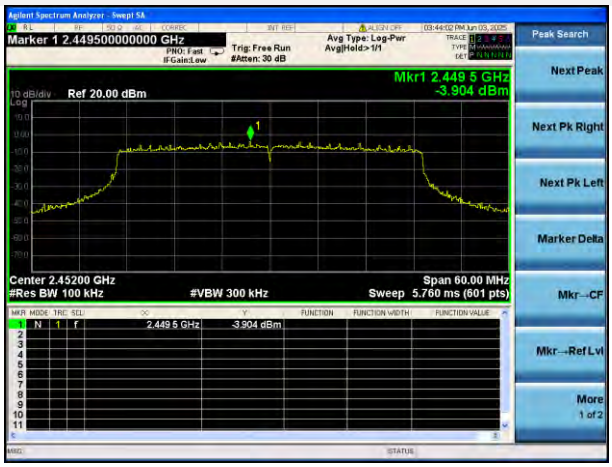


802.11ax-40 MHz(SU) LOW CHANNEL, CARRIER LEVEL

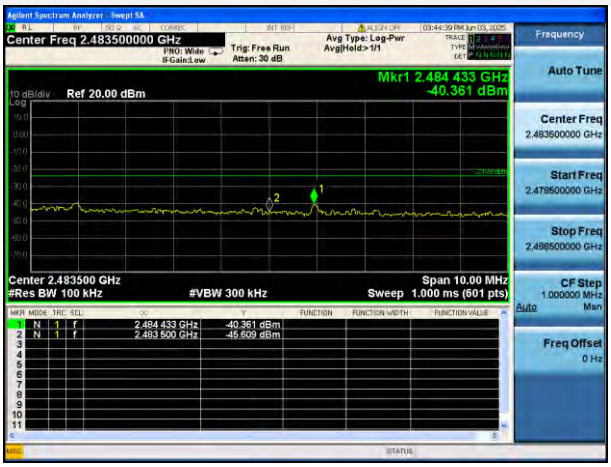


802.11ax-40 MHz(SU) LOW CHANNEL, BAND EDGE

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



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



A.5 Conducted Emissions

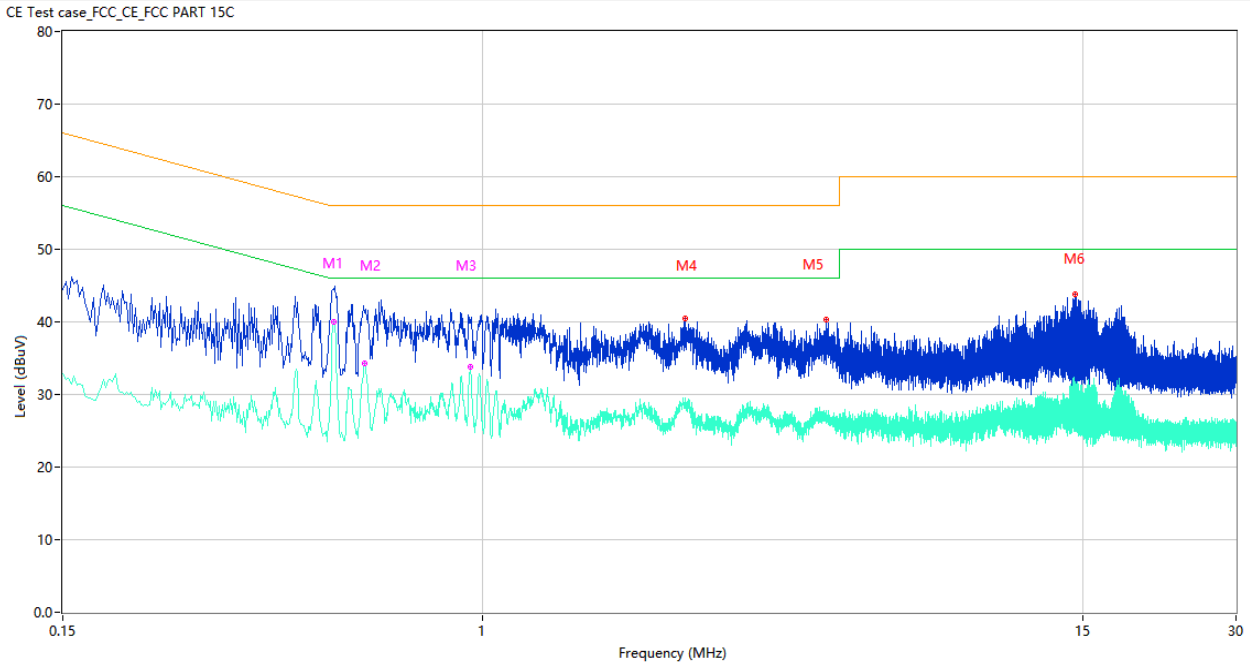
Note [1]: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note [2]: 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.

Note [3]: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

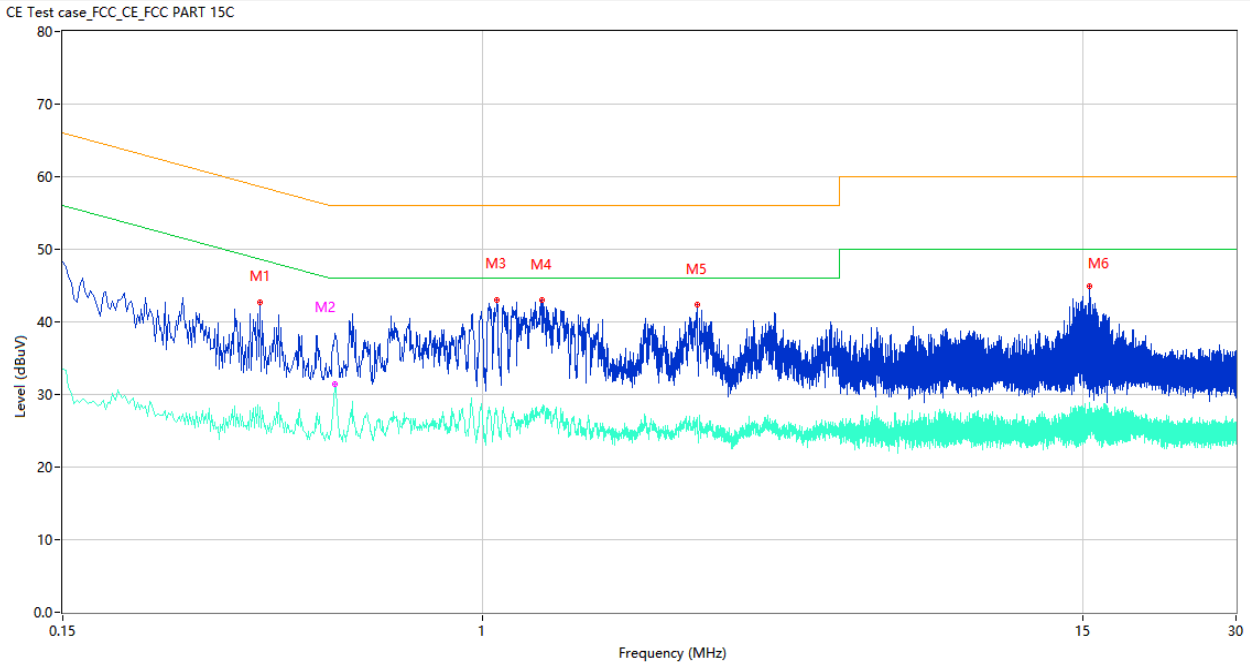
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.510	44.51	10.00	56.00	11.49	Peak	L	Pass
1**	0.510	40.01	10.00	46.00	5.99	AV	L	Pass
2	0.586	41.29	10.13	56.00	14.71	Peak	L	Pass
2**	0.586	34.21	10.13	46.00	11.79	AV	L	Pass
3	0.944	39.89	10.07	56.00	16.11	Peak	L	Pass
3**	0.944	33.74	10.07	46.00	12.26	AV	L	Pass
4	2.494	40.50	10.19	56.00	15.50	Peak	L	Pass
4**	2.494	29.60	10.19	46.00	16.40	AV	L	Pass
5	4.724	40.27	10.13	56.00	15.73	Peak	L	Pass
5**	4.724	26.99	10.13	46.00	19.01	AV	L	Pass
6	14.490	43.79	10.56	60.00	16.21	Peak	L	Pass
6**	14.490	31.42	10.56	50.00	18.58	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.366	42.67	10.74	58.59	15.92	Peak	N	Pass
1**	0.366	28.33	10.74	48.59	20.26	AV	N	Pass
2	0.512	38.38	10.00	56.00	17.62	Peak	N	Pass
2**	0.512	31.42	10.00	46.00	14.58	AV	N	Pass
3	1.066	43.03	10.11	56.00	12.97	Peak	N	Pass
3**	1.066	27.36	10.11	46.00	18.64	AV	N	Pass
4	1.308	42.97	10.43	56.00	13.03	Peak	N	Pass
4**	1.308	28.12	10.43	46.00	17.88	AV	N	Pass
5	2.630	42.30	10.05	56.00	13.70	Peak	N	Pass
5**	2.630	26.76	10.05	46.00	19.24	AV	N	Pass
6	15.470	44.89	10.67	60.00	15.11	Peak	N	Pass
6**	15.470	24.51	10.67	50.00	25.49	AV	N	Pass

A.6 Radiated Emission

Note [1]: The symbol of "--" in the table which means not application.

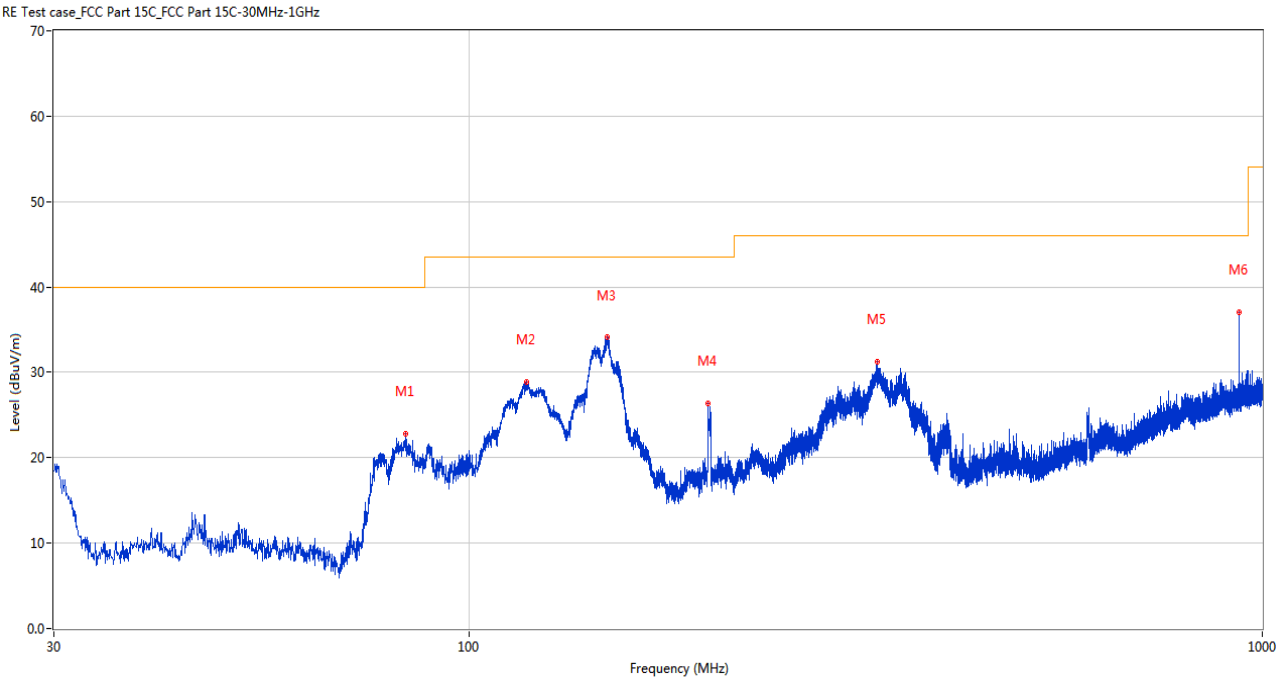
Note [2]: For the test data above 1 GHz，According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note [3]: 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.

Note [4]: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

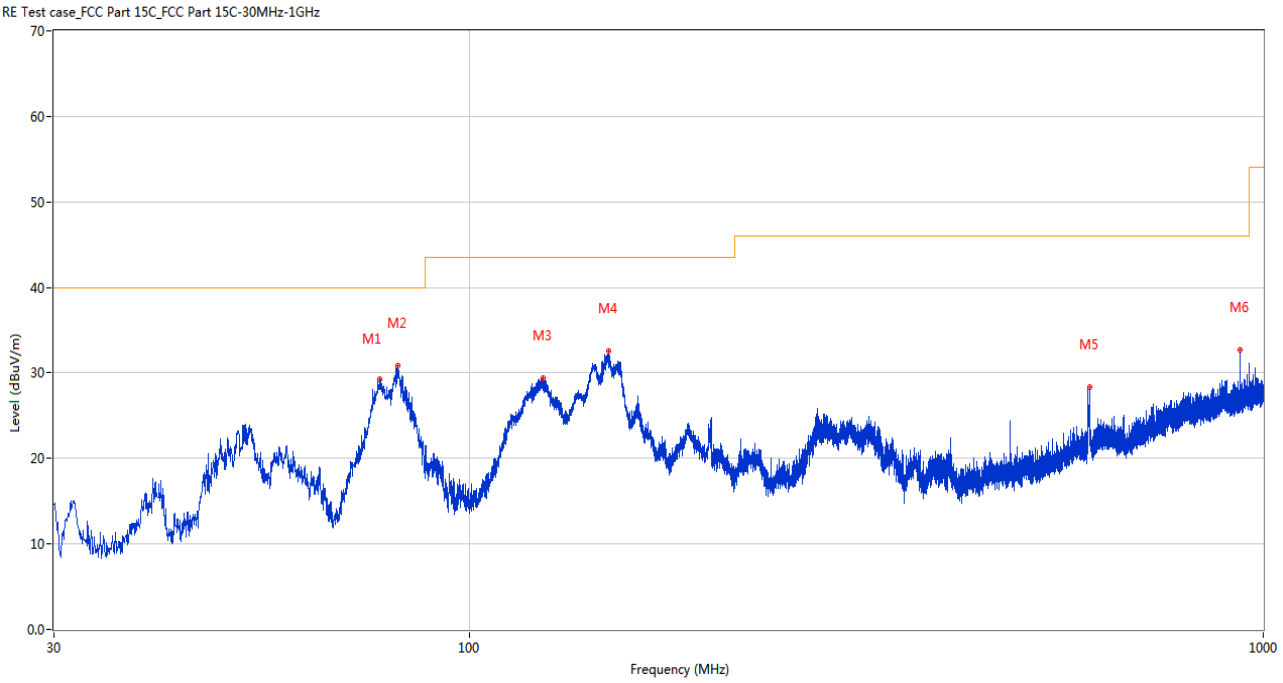
Test Data and Plots

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	83.253	22.87	-30.42	40.0	17.13	Peak	108.00	200	Horizontal	Pass
2	118.173	28.86	-28.30	43.5	14.64	Peak	145.00	200	Horizontal	Pass
3	149.359	34.08	-25.55	43.5	9.42	Peak	282.00	200	Horizontal	Pass
4	200.332	26.42	-28.79	43.5	17.08	Peak	270.00	100	Horizontal	Pass
5	327.257	31.27	-23.59	46.0	14.73	Peak	191.00	100	Horizontal	Pass
6	935.980	37.06	-10.67	46.0	8.94	Peak	170.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	77.239	29.29	-30.20	40.0	10.71	Peak	108.00	100	Vertical	Pass
2	81.362	30.84	-30.26	40.0	9.16	Peak	75.00	100	Vertical	Pass
3	123.993	29.45	-27.86	43.5	14.05	Peak	0.00	100	Vertical	Pass
4	149.844	32.51	-25.51	43.5	10.99	Peak	184.00	100	Vertical	Pass
5	605.113	28.38	-16.59	46.0	17.62	Peak	114.00	100	Vertical	Pass
6	935.980	32.64	-10.67	46.0	13.36	Peak	25.00	200	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	1327.179	42.18	74.0	31.82	Peak	334.00	200	Horizontal	Pass
1**	1327.179	39.50	54.0	14.50	AV	334.00	200	Horizontal	Pass
2	2993.154	50.95	74.0	23.05	Peak	128.00	300	Horizontal	Pass
2**	2993.154	40.95	54.0	13.05	AV	128.00	300	Horizontal	Pass
3	4937.484	53.46	74.0	20.54	Peak	24.00	200	Horizontal	Pass
3**	4937.484	39.55	54.0	14.45	AV	24.00	200	Horizontal	Pass
4	6805.574	56.59	74.0	17.41	Peak	244.00	300	Horizontal	Pass
4**	6805.574	47.25	54.0	6.75	AV	244.00	300	Horizontal	Pass
5	13412.462	56.40	74.0	17.60	Peak	120.00	100	Horizontal	Pass
5**	13412.462	47.07	54.0	6.93	AV	120.00	100	Horizontal	Pass
6	17424.603	54.06	74.0	19.94	Peak	181.00	200	Horizontal	Pass
6**	17424.603	45.16	54.0	8.84	AV	181.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.237	42.31	74.0	31.69	Peak	321.00	200	Vertical	Pass
1**	1332.237	40.10	54.0	13.90	AV	321.00	200	Vertical	Pass
2	2984.774	49.64	74.0	24.36	Peak	147.00	100	Vertical	Pass
2**	2984.774	43.85	54.0	10.15	AV	147.00	100	Vertical	Pass
3	4855.879	49.48	74.0	24.52	Peak	229.00	200	Vertical	Pass
3**	4855.879	42.60	54.0	11.40	AV	229.00	200	Vertical	Pass
4	6607.515	52.79	74.0	21.21	Peak	130.00	100	Vertical	Pass
4**	6607.515	43.77	54.0	10.23	AV	130.00	100	Vertical	Pass
5	13435.978	56.37	74.0	17.63	Peak	101.00	400	Vertical	Pass
5**	13435.978	48.96	54.0	5.04	AV	101.00	400	Vertical	Pass
6	17413.604	59.59	74.0	14.41	Peak	245.00	300	Vertical	Pass
6**	17413.604	49.00	54.0	5.00	AV	245.00	300	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	1329.309	46.41	74.0	27.59	Peak	340.00	100	Horizontal	Pass
1**	1329.309	38.26	54.0	15.74	AV	340.00	100	Horizontal	Pass
2	2993.387	52.97	74.0	21.03	Peak	266.00	300	Horizontal	Pass
2**	2993.387	40.10	54.0	13.90	AV	266.00	300	Horizontal	Pass
3	4937.835	49.64	74.0	24.36	Peak	191.00	200	Horizontal	Pass
3**	4937.835	42.48	54.0	11.52	AV	191.00	200	Horizontal	Pass
4	6810.976	52.58	74.0	21.42	Peak	41.00	300	Horizontal	Pass
4**	6810.976	44.36	54.0	9.64	AV	41.00	300	Horizontal	Pass
5	13414.603	56.23	74.0	17.77	Peak	225.00	200	Horizontal	Pass
5**	13414.603	46.51	54.0	7.49	AV	225.00	200	Horizontal	Pass
6	17423.363	57.77	74.0	16.23	Peak	245.00	400	Horizontal	Pass
6**	17423.363	49.63	54.0	4.37	AV	245.00	400	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	1331.347	46.83	74.0	27.17	Peak	153.00	100	Vertical	Pass
1**	1331.347	36.30	54.0	17.70	AV	153.00	100	Vertical	Pass
2	2979.738	52.41	74.0	21.59	Peak	279.00	400	Vertical	Pass
2**	2979.738	44.00	54.0	10.00	AV	279.00	400	Vertical	Pass
3	4857.569	49.39	74.0	24.61	Peak	350.00	200	Vertical	Pass
3**	4857.569	39.71	54.0	14.29	AV	350.00	200	Vertical	Pass
4	6607.160	53.02	74.0	20.98	Peak	70.00	200	Vertical	Pass
4**	6607.160	47.05	54.0	6.95	AV	70.00	200	Vertical	Pass
5	13432.497	55.58	74.0	18.42	Peak	242.00	400	Vertical	Pass
5**	13432.497	46.45	54.0	7.55	AV	242.00	400	Vertical	Pass
6	17417.595	58.44	74.0	15.56	Peak	62.00	200	Vertical	Pass
6**	17417.595	48.19	54.0	5.81	AV	62.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.712	44.07	74.0	29.93	Peak	171.00	300	Horizontal	Pass
1**	1332.712	38.54	54.0	15.46	AV	171.00	300	Horizontal	Pass
2	2993.234	47.75	74.0	26.25	Peak	190.00	100	Horizontal	Pass
2**	2993.234	43.15	54.0	10.85	AV	190.00	100	Horizontal	Pass
3	4930.683	50.43	74.0	23.57	Peak	332.00	200	Horizontal	Pass
3**	4930.683	38.65	54.0	15.35	AV	332.00	200	Horizontal	Pass
4	6810.134	55.97	74.0	18.03	Peak	10.00	100	Horizontal	Pass
4**	6810.134	47.56	54.0	6.44	AV	10.00	100	Horizontal	Pass
5	13408.356	57.16	74.0	16.84	Peak	122.00	400	Horizontal	Pass
5**	13408.356	47.76	54.0	6.24	AV	122.00	400	Horizontal	Pass
6	17429.054	57.23	74.0	16.77	Peak	18.00	400	Horizontal	Pass
6**	17429.054	50.10	54.0	3.90	AV	18.00	400	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	1331.353	47.56	74.0	26.44	Peak	179.00	400	Vertical	Pass
1**	1331.353	37.73	54.0	16.27	AV	179.00	400	Vertical	Pass
2	2985.235	51.91	74.0	22.09	Peak	294.00	400	Vertical	Pass
2**	2985.235	39.18	54.0	14.82	AV	294.00	400	Vertical	Pass
3	4856.110	47.46	74.0	26.54	Peak	157.00	200	Vertical	Pass
3**	4856.110	40.71	54.0	13.29	AV	157.00	200	Vertical	Pass
4	6604.002	54.05	74.0	19.95	Peak	52.00	100	Vertical	Pass
4**	6604.002	42.12	54.0	11.88	AV	52.00	100	Vertical	Pass
5	13435.625	57.85	74.0	16.15	Peak	266.00	200	Vertical	Pass
5**	13435.625	47.81	54.0	6.19	AV	266.00	200	Vertical	Pass
6	17419.269	59.81	74.0	14.19	Peak	139.00	300	Vertical	Pass
6**	17419.269	47.46	54.0	6.54	AV	139.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.080	42.10	74.0	31.90	Peak	282.00	300	Horizontal	Pass
1**	1330.080	35.79	54.0	18.21	AV	282.00	300	Horizontal	Pass
2	2997.646	50.52	74.0	23.48	Peak	105.00	400	Horizontal	Pass
2**	2997.646	44.26	54.0	9.74	AV	105.00	400	Horizontal	Pass
3	4933.863	53.36	74.0	20.64	Peak	15.00	200	Horizontal	Pass
3**	4933.863	40.28	54.0	13.72	AV	15.00	200	Horizontal	Pass
4	6808.545	54.57	74.0	19.43	Peak	124.00	300	Horizontal	Pass
4**	6808.545	42.00	54.0	12.00	AV	124.00	300	Horizontal	Pass
5	13414.852	58.22	74.0	15.78	Peak	231.00	200	Horizontal	Pass
5**	13414.852	47.07	54.0	6.93	AV	231.00	200	Horizontal	Pass
6	17427.408	56.79	74.0	17.21	Peak	222.00	100	Horizontal	Pass
6**	17427.408	45.47	54.0	8.53	AV	222.00	100	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	1331.428	43.74	74.0	30.26	Peak	30.00	400	Vertical	Pass
1**	1331.428	39.89	54.0	14.11	AV	30.00	400	Vertical	Pass
2	2981.652	48.64	74.0	25.36	Peak	101.00	100	Vertical	Pass
2**	2981.652	39.88	54.0	14.12	AV	101.00	100	Vertical	Pass
3	4851.850	46.89	74.0	27.11	Peak	65.00	200	Vertical	Pass
3**	4851.850	37.82	54.0	16.18	AV	65.00	200	Vertical	Pass
4	6608.970	54.31	74.0	19.69	Peak	298.00	200	Vertical	Pass
4**	6608.970	45.50	54.0	8.50	AV	298.00	200	Vertical	Pass
5	13438.507	56.21	74.0	17.79	Peak	132.00	100	Vertical	Pass
5**	13438.507	44.30	54.0	9.70	AV	132.00	100	Vertical	Pass
6	17415.365	55.34	74.0	18.66	Peak	132.00	300	Vertical	Pass
6**	17415.365	46.31	54.0	7.69	AV	132.00	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	1327.212	46.21	74.0	27.79	Peak	243.00	200	Horizontal	Pass
1**	1327.212	35.65	54.0	18.35	AV	243.00	200	Horizontal	Pass
2	2995.250	49.54	74.0	24.46	Peak	231.00	300	Horizontal	Pass
2**	2995.250	42.20	54.0	11.80	AV	231.00	300	Horizontal	Pass
3	4935.040	49.59	74.0	24.41	Peak	69.00	200	Horizontal	Pass
3**	4935.040	39.60	54.0	14.40	AV	69.00	200	Horizontal	Pass
4	6804.971	55.74	74.0	18.26	Peak	204.00	100	Horizontal	Pass
4**	6804.971	47.23	54.0	6.77	AV	204.00	100	Horizontal	Pass
5	13412.108	57.02	74.0	16.98	Peak	46.00	200	Horizontal	Pass
5**	13412.108	44.86	54.0	9.14	AV	46.00	200	Horizontal	Pass
6	17424.248	55.77	74.0	18.23	Peak	287.00	200	Horizontal	Pass
6**	17424.248	49.77	54.0	4.23	AV	287.00	200	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	1328.967	45.36	74.0	28.64	Peak	149.00	400	Vertical	Pass
1**	1328.967	36.28	54.0	17.72	AV	149.00	400	Vertical	Pass
2	2980.367	51.19	74.0	22.81	Peak	115.00	200	Vertical	Pass
2**	2980.367	43.51	54.0	10.49	AV	115.00	200	Vertical	Pass
3	4850.445	51.74	74.0	22.26	Peak	315.00	200	Vertical	Pass
3**	4850.445	43.44	54.0	10.56	AV	315.00	200	Vertical	Pass
4	6609.776	53.88	74.0	20.12	Peak	125.00	300	Vertical	Pass
4**	6609.776	46.60	54.0	7.40	AV	125.00	300	Vertical	Pass
5	13435.467	56.50	74.0	17.50	Peak	61.00	200	Vertical	Pass
5**	13435.467	48.58	54.0	5.42	AV	61.00	200	Vertical	Pass
6	17418.912	58.23	74.0	15.77	Peak	63.00	300	Vertical	Pass
6**	17418.912	44.63	54.0	9.37	AV	63.00	300	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	1328.021	43.47	74.0	30.53	Peak	229.00	100	Horizontal	Pass
1**	1328.021	39.63	54.0	14.37	AV	229.00	100	Horizontal	Pass
2	2992.950	51.86	74.0	22.14	Peak	118.00	300	Horizontal	Pass
2**	2992.950	39.05	54.0	14.95	AV	118.00	300	Horizontal	Pass
3	4936.203	49.44	74.0	24.56	Peak	60.00	200	Horizontal	Pass
3**	4936.203	40.38	54.0	13.62	AV	60.00	200	Horizontal	Pass
4	6805.344	57.16	74.0	16.84	Peak	255.00	100	Horizontal	Pass
4**	6805.344	46.04	54.0	7.96	AV	255.00	100	Horizontal	Pass
5	13413.630	53.53	74.0	20.47	Peak	1.00	300	Horizontal	Pass
5**	13413.630	49.07	54.0	4.93	AV	1.00	300	Horizontal	Pass
6	17427.543	53.65	74.0	20.35	Peak	143.00	300	Horizontal	Pass
6**	17427.543	48.02	54.0	5.98	AV	143.00	300	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	1334.664	46.04	74.0	27.96	Peak	145.00	200	Vertical	Pass
1**	1334.664	36.91	54.0	17.09	AV	145.00	200	Vertical	Pass
2	2985.802	52.65	74.0	21.35	Peak	295.00	200	Vertical	Pass
2**	2985.802	41.40	54.0	12.60	AV	295.00	200	Vertical	Pass
3	4853.205	48.85	74.0	25.15	Peak	227.00	200	Vertical	Pass
3**	4853.205	40.33	54.0	13.67	AV	227.00	200	Vertical	Pass
4	6608.723	56.00	74.0	18.00	Peak	241.00	300	Vertical	Pass
4**	6608.723	47.66	54.0	6.34	AV	241.00	300	Vertical	Pass
5	13437.790	53.94	74.0	20.06	Peak	200.00	300	Vertical	Pass
5**	13437.790	47.52	54.0	6.48	AV	200.00	300	Vertical	Pass
6	17414.715	57.70	74.0	16.30	Peak	148.00	200	Vertical	Pass
6**	17414.715	46.59	54.0	7.41	AV	148.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.250	44.57	74.0	29.43	Peak	287.00	200	Horizontal	Pass
1**	1333.250	36.39	54.0	17.61	AV	287.00	200	Horizontal	Pass
2	2998.051	49.78	74.0	24.22	Peak	176.00	300	Horizontal	Pass
2**	2998.051	38.51	54.0	15.49	AV	176.00	300	Horizontal	Pass
3	4933.178	54.35	74.0	19.65	Peak	354.00	200	Horizontal	Pass
3**	4933.178	40.97	54.0	13.03	AV	354.00	200	Horizontal	Pass
4	6807.077	55.09	74.0	18.91	Peak	121.00	200	Horizontal	Pass
4**	6807.077	46.17	54.0	7.83	AV	121.00	200	Horizontal	Pass
5	13407.323	53.21	74.0	20.79	Peak	257.00	300	Horizontal	Pass
5**	13407.323	44.68	54.0	9.32	AV	257.00	300	Horizontal	Pass
6	17425.615	53.53	74.0	20.47	Peak	347.00	300	Horizontal	Pass
6**	17425.615	45.54	54.0	8.46	AV	347.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.664	46.70	74.0	27.30	Peak	312.00	100	Vertical	Pass
1**	1333.664	39.74	54.0	14.26	AV	312.00	100	Vertical	Pass
2	2982.213	51.71	74.0	22.29	Peak	63.00	200	Vertical	Pass
2**	2982.213	39.38	54.0	14.62	AV	63.00	200	Vertical	Pass
3	4855.521	52.48	74.0	21.52	Peak	304.00	200	Vertical	Pass
3**	4855.521	42.13	54.0	11.87	AV	304.00	200	Vertical	Pass
4	6610.486	54.72	74.0	19.28	Peak	191.00	300	Vertical	Pass
4**	6610.486	44.25	54.0	9.75	AV	191.00	300	Vertical	Pass
5	13437.055	52.93	74.0	21.07	Peak	41.00	400	Vertical	Pass
5**	13437.055	48.44	54.0	5.56	AV	41.00	400	Vertical	Pass
6	17418.539	57.07	74.0	16.93	Peak	202.00	100	Vertical	Pass
6**	17418.539	45.64	54.0	8.36	AV	202.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.000	46.83	74.0	27.17	Peak	138.00	200	Horizontal	Pass
1**	1331.000	37.79	54.0	16.21	AV	138.00	200	Horizontal	Pass
2	2998.804	48.99	74.0	25.01	Peak	304.00	100	Horizontal	Pass
2**	2998.804	41.53	54.0	12.47	AV	304.00	100	Horizontal	Pass
3	4935.371	49.34	74.0	24.66	Peak	102.00	200	Horizontal	Pass
3**	4935.371	43.12	54.0	10.88	AV	102.00	200	Horizontal	Pass
4	6807.904	55.19	74.0	18.81	Peak	55.00	200	Horizontal	Pass
4**	6807.904	41.96	54.0	12.04	AV	55.00	200	Horizontal	Pass
5	13413.884	55.06	74.0	18.94	Peak	211.00	200	Horizontal	Pass
5**	13413.884	49.03	54.0	4.97	AV	211.00	200	Horizontal	Pass
6	17422.839	55.23	74.0	18.77	Peak	289.00	300	Horizontal	Pass
6**	17422.839	47.89	54.0	6.11	AV	289.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.144	47.88	74.0	26.12	Peak	80.00	100	Vertical	Pass
1**	1335.144	39.60	54.0	14.40	AV	80.00	100	Vertical	Pass
2	2978.033	49.54	74.0	24.46	Peak	194.00	100	Vertical	Pass
2**	2978.033	40.28	54.0	13.72	AV	194.00	100	Vertical	Pass
3	4857.146	50.76	74.0	23.24	Peak	289.00	200	Vertical	Pass
3**	4857.146	40.99	54.0	13.01	AV	289.00	200	Vertical	Pass
4	6609.631	52.83	74.0	21.17	Peak	25.00	200	Vertical	Pass
4**	6609.631	45.56	54.0	8.44	AV	25.00	200	Vertical	Pass
5	13430.999	54.01	74.0	19.99	Peak	6.00	200	Vertical	Pass
5**	13430.999	46.73	54.0	7.27	AV	6.00	200	Vertical	Pass
6	17420.508	59.63	74.0	14.37	Peak	68.00	100	Vertical	Pass
6**	17420.508	46.36	54.0	7.64	AV	68.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.093	42.22	74.0	31.78	Peak	13.00	300	Horizontal	Pass
1**	1329.093	36.45	54.0	17.55	AV	13.00	300	Horizontal	Pass
2	2998.838	47.53	74.0	26.47	Peak	140.00	100	Horizontal	Pass
2**	2998.838	40.21	54.0	13.79	AV	140.00	100	Horizontal	Pass
3	4933.284	52.09	74.0	21.91	Peak	51.00	200	Horizontal	Pass
3**	4933.284	43.00	54.0	11.00	AV	51.00	200	Horizontal	Pass
4	6805.108	53.40	74.0	20.60	Peak	314.00	400	Horizontal	Pass
4**	6805.108	46.84	54.0	7.16	AV	314.00	400	Horizontal	Pass
5	13411.827	56.36	74.0	17.64	Peak	161.00	400	Horizontal	Pass
5**	13411.827	44.36	54.0	9.64	AV	161.00	400	Horizontal	Pass
6	17423.684	57.34	74.0	16.66	Peak	274.00	100	Horizontal	Pass
6**	17423.684	46.87	54.0	7.13	AV	274.00	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	1333.666	42.55	74.0	31.45	Peak	55.00	100	Vertical	Pass
1**	1333.666	38.29	54.0	15.71	AV	55.00	100	Vertical	Pass
2	2982.550	51.67	74.0	22.33	Peak	24.00	200	Vertical	Pass
2**	2982.550	39.75	54.0	14.25	AV	24.00	200	Vertical	Pass
3	4851.230	47.69	74.0	26.31	Peak	183.00	200	Vertical	Pass
3**	4851.230	42.29	54.0	11.71	AV	183.00	200	Vertical	Pass
4	6605.587	54.54	74.0	19.46	Peak	219.00	400	Vertical	Pass
4**	6605.587	46.83	54.0	7.17	AV	219.00	400	Vertical	Pass
5	13432.613	58.40	74.0	15.60	Peak	130.00	100	Vertical	Pass
5**	13432.613	45.04	54.0	8.96	AV	130.00	100	Vertical	Pass
6	17413.755	58.08	74.0	15.92	Peak	322.00	300	Vertical	Pass
6**	17413.755	50.19	54.0	3.81	AV	322.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.679	42.19	74.0	31.81	Peak	137.00	100	Horizontal	Pass
1**	1333.679	34.15	54.0	19.85	AV	137.00	100	Horizontal	Pass
2	2999.724	51.40	74.0	22.60	Peak	102.00	200	Horizontal	Pass
2**	2999.724	38.77	54.0	15.23	AV	102.00	200	Horizontal	Pass
3	4932.390	53.22	74.0	20.78	Peak	13.00	200	Horizontal	Pass
3**	4932.390	38.79	54.0	15.21	AV	13.00	200	Horizontal	Pass
4	6806.004	55.36	74.0	18.64	Peak	84.00	400	Horizontal	Pass
4**	6806.004	46.47	54.0	7.53	AV	84.00	400	Horizontal	Pass
5	13407.866	56.84	74.0	17.16	Peak	52.00	300	Horizontal	Pass
5**	13407.866	43.72	54.0	10.28	AV	52.00	300	Horizontal	Pass
6	17426.554	54.15	74.0	19.85	Peak	176.00	400	Horizontal	Pass
6**	17426.554	45.80	54.0	8.20	AV	176.00	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	1331.163	46.21	74.0	27.79	Peak	314.00	100	Vertical	Pass
1**	1331.163	36.28	54.0	17.72	AV	314.00	100	Vertical	Pass
2	2979.794	48.53	74.0	25.47	Peak	16.00	300	Vertical	Pass
2**	2979.794	42.05	54.0	11.95	AV	16.00	300	Vertical	Pass
3	4854.449	46.72	74.0	27.28	Peak	243.00	200	Vertical	Pass
3**	4854.449	39.41	54.0	14.59	AV	243.00	200	Vertical	Pass
4	6604.361	56.02	74.0	17.98	Peak	7.00	300	Vertical	Pass
4**	6604.361	46.91	54.0	7.09	AV	7.00	300	Vertical	Pass
5	13431.974	54.69	74.0	19.31	Peak	159.00	300	Vertical	Pass
5**	13431.974	47.02	54.0	6.98	AV	159.00	300	Vertical	Pass
6	17414.927	55.15	74.0	18.85	Peak	69.00	100	Vertical	Pass
6**	17414.927	49.87	54.0	4.13	AV	69.00	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	1328.257	44.57	74.0	29.43	Peak	32.00	100	Horizontal	Pass
1**	1328.257	36.78	54.0	17.22	AV	32.00	100	Horizontal	Pass
2	2999.328	50.31	74.0	23.69	Peak	159.00	200	Horizontal	Pass
2**	2999.328	38.47	54.0	15.53	AV	159.00	200	Horizontal	Pass
3	4936.965	51.56	74.0	22.44	Peak	14.00	200	Horizontal	Pass
3**	4936.965	41.02	54.0	12.98	AV	14.00	200	Horizontal	Pass
4	6803.795	51.72	74.0	22.28	Peak	0.00	300	Horizontal	Pass
4**	6803.795	42.36	54.0	11.64	AV	0.00	300	Horizontal	Pass
5	13412.399	57.57	74.0	16.43	Peak	339.00	100	Horizontal	Pass
5**	13412.399	44.67	54.0	9.33	AV	339.00	100	Horizontal	Pass
6	17425.954	57.00	74.0	17.00	Peak	218.00	300	Horizontal	Pass
6**	17425.954	44.94	54.0	9.06	AV	218.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.745	44.40	74.0	29.60	Peak	197.00	300	Vertical	Pass
1**	1331.745	37.90	54.0	16.10	AV	197.00	300	Vertical	Pass
2	2982.529	51.83	74.0	22.17	Peak	236.00	400	Vertical	Pass
2**	2982.529	43.26	54.0	10.74	AV	236.00	400	Vertical	Pass
3	4857.915	46.95	74.0	27.05	Peak	221.00	200	Vertical	Pass
3**	4857.915	39.85	54.0	14.15	AV	221.00	200	Vertical	Pass
4	6611.032	56.92	74.0	17.08	Peak	238.00	100	Vertical	Pass
4**	6611.032	44.12	54.0	9.88	AV	238.00	100	Vertical	Pass
5	13432.338	58.18	74.0	15.82	Peak	325.00	400	Vertical	Pass
5**	13432.338	45.10	54.0	8.90	AV	325.00	400	Vertical	Pass
6	17414.456	58.42	74.0	15.58	Peak	142.00	300	Vertical	Pass
6**	17414.456	44.95	54.0	9.05	AV	142.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.372	43.44	74.0	30.56	Peak	233.00	200	Horizontal	Pass
1**	1327.372	35.25	54.0	18.75	AV	233.00	200	Horizontal	Pass
2	2997.265	52.77	74.0	21.23	Peak	70.00	200	Horizontal	Pass
2**	2997.265	43.54	54.0	10.46	AV	70.00	200	Horizontal	Pass
3	4930.608	51.85	74.0	22.15	Peak	257.00	200	Horizontal	Pass
3**	4930.608	40.51	54.0	13.49	AV	257.00	200	Horizontal	Pass
4	6805.798	54.03	74.0	19.97	Peak	34.00	200	Horizontal	Pass
4**	6805.798	44.74	54.0	9.26	AV	34.00	200	Horizontal	Pass
5	13412.148	55.44	74.0	18.56	Peak	360.00	400	Horizontal	Pass
5**	13412.148	49.06	54.0	4.94	AV	360.00	400	Horizontal	Pass
6	17426.941	55.89	74.0	18.11	Peak	215.00	400	Horizontal	Pass
6**	17426.941	44.52	54.0	9.48	AV	215.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.514	44.08	74.0	29.92	Peak	129.00	200	Vertical	Pass
1**	1331.514	39.94	54.0	14.06	AV	129.00	200	Vertical	Pass
2	2981.374	49.43	74.0	24.57	Peak	11.00	400	Vertical	Pass
2**	2981.374	40.18	54.0	13.82	AV	11.00	400	Vertical	Pass
3	4853.592	46.54	74.0	27.46	Peak	201.00	200	Vertical	Pass
3**	4853.592	38.52	54.0	15.48	AV	201.00	200	Vertical	Pass
4	6604.661	51.85	74.0	22.15	Peak	264.00	300	Vertical	Pass
4**	6604.661	47.90	54.0	6.10	AV	264.00	300	Vertical	Pass
5	13438.245	56.57	74.0	17.43	Peak	140.00	200	Vertical	Pass
5**	13438.245	46.03	54.0	7.97	AV	140.00	200	Vertical	Pass
6	17415.173	57.72	74.0	16.28	Peak	276.00	100	Vertical	Pass
6**	17415.173	48.86	54.0	5.14	AV	276.00	100	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	1330.708	45.83	74.0	28.17	Peak	147.00	100	Horizontal	Pass
1**	1330.708	36.28	54.0	17.72	AV	147.00	100	Horizontal	Pass
2	2993.438	52.67	74.0	21.33	Peak	297.00	100	Horizontal	Pass
2**	2993.438	43.60	54.0	10.40	AV	297.00	100	Horizontal	Pass
3	4932.818	48.77	74.0	25.23	Peak	210.00	200	Horizontal	Pass
3**	4932.818	42.88	54.0	11.12	AV	210.00	200	Horizontal	Pass
4	6810.944	54.65	74.0	19.35	Peak	12.00	200	Horizontal	Pass
4**	6810.944	47.55	54.0	6.45	AV	12.00	200	Horizontal	Pass
5	13408.413	52.61	74.0	21.39	Peak	256.00	300	Horizontal	Pass
5**	13408.413	45.38	54.0	8.62	AV	256.00	300	Horizontal	Pass
6	17427.221	57.14	74.0	16.86	Peak	179.00	100	Horizontal	Pass
6**	17427.221	45.89	54.0	8.11	AV	179.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V802.11ax20(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.839	47.99	74.0	26.01	Peak	99.00	200	Vertical	Pass
1**	1329.839	38.76	54.0	15.24	AV	99.00	200	Vertical	Pass
2	2982.974	48.29	74.0	25.71	Peak	68.00	100	Vertical	Pass
2**	2982.974	42.02	54.0	11.98	AV	68.00	100	Vertical	Pass
3	4855.324	49.89	74.0	24.11	Peak	196.00	200	Vertical	Pass
3**	4855.324	38.27	54.0	15.73	AV	196.00	200	Vertical	Pass
4	6608.893	52.83	74.0	21.17	Peak	58.00	400	Vertical	Pass
4**	6608.893	44.24	54.0	9.76	AV	58.00	400	Vertical	Pass
5	13434.402	52.45	74.0	21.55	Peak	49.00	300	Vertical	Pass
5**	13434.402	47.88	54.0	6.12	AV	49.00	300	Vertical	Pass
6	17415.665	58.44	74.0	15.56	Peak	42.00	300	Vertical	Pass
6**	17415.665	45.28	54.0	8.72	AV	42.00	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	1333.279	47.36	74.0	26.64	Peak	129.00	400	Horizontal	Pass
1**	1333.279	37.62	54.0	16.38	AV	129.00	400	Horizontal	Pass
2	2999.256	50.73	74.0	23.27	Peak	58.00	100	Horizontal	Pass
2**	2999.256	40.65	54.0	13.35	AV	58.00	100	Horizontal	Pass
3	4933.569	50.62	74.0	23.38	Peak	310.00	200	Horizontal	Pass
3**	4933.569	40.29	54.0	13.71	AV	310.00	200	Horizontal	Pass
4	6810.011	52.84	74.0	21.16	Peak	254.00	400	Horizontal	Pass
4**	6810.011	41.77	54.0	12.23	AV	254.00	400	Horizontal	Pass
5	13410.894	57.43	74.0	16.57	Peak	212.00	400	Horizontal	Pass
5**	13410.894	47.13	54.0	6.87	AV	212.00	400	Horizontal	Pass
6	17423.810	56.81	74.0	17.19	Peak	225.00	100	Horizontal	Pass
6**	17423.810	49.64	54.0	4.36	AV	225.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.348	47.85	74.0	26.15	Peak	68.00	100	Vertical	Pass
1**	1331.348	38.54	54.0	15.46	AV	68.00	100	Vertical	Pass
2	2982.359	47.68	74.0	26.32	Peak	152.00	100	Vertical	Pass
2**	2982.359	41.53	54.0	12.47	AV	152.00	100	Vertical	Pass
3	4852.151	52.43	74.0	21.57	Peak	357.00	200	Vertical	Pass
3**	4852.151	42.98	54.0	11.02	AV	357.00	200	Vertical	Pass
4	6605.732	51.68	74.0	22.32	Peak	241.00	100	Vertical	Pass
4**	6605.732	42.92	54.0	11.08	AV	241.00	100	Vertical	Pass
5	13435.504	55.91	74.0	18.09	Peak	245.00	100	Vertical	Pass
5**	13435.504	47.18	54.0	6.82	AV	245.00	100	Vertical	Pass
6	17420.387	58.76	74.0	15.24	Peak	6.00	300	Vertical	Pass
6**	17420.387	50.30	54.0	3.70	AV	6.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.671	46.47	74.0	27.53	Peak	247.00	200	Horizontal	Pass
1**	1330.671	34.52	54.0	19.48	AV	247.00	200	Horizontal	Pass
2	2993.706	48.39	74.0	25.61	Peak	93.00	300	Horizontal	Pass
2**	2993.706	41.23	54.0	12.77	AV	93.00	300	Horizontal	Pass
3	4936.883	52.90	74.0	21.10	Peak	311.00	200	Horizontal	Pass
3**	4936.883	39.88	54.0	14.12	AV	311.00	200	Horizontal	Pass
4	6809.062	55.27	74.0	18.73	Peak	314.00	400	Horizontal	Pass
4**	6809.062	43.97	54.0	10.03	AV	314.00	400	Horizontal	Pass
5	13411.962	55.84	74.0	18.16	Peak	188.00	200	Horizontal	Pass
5**	13411.962	49.43	54.0	4.57	AV	188.00	200	Horizontal	Pass
6	17425.805	58.68	74.0	15.32	Peak	263.00	300	Horizontal	Pass
6**	17425.805	48.96	54.0	5.04	AV	263.00	300	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	1333.848	45.01	74.0	28.99	Peak	358.00	300	Vertical	Pass
1**	1333.848	37.22	54.0	16.78	AV	358.00	300	Vertical	Pass
2	2985.730	51.73	74.0	22.27	Peak	154.00	400	Vertical	Pass
2**	2985.730	42.26	54.0	11.74	AV	154.00	400	Vertical	Pass
3	4852.355	47.32	74.0	26.68	Peak	149.00	200	Vertical	Pass
3**	4852.355	37.66	54.0	16.34	AV	149.00	200	Vertical	Pass
4	6607.813	56.02	74.0	17.98	Peak	66.00	100	Vertical	Pass
4**	6607.813	46.06	54.0	7.94	AV	66.00	100	Vertical	Pass
5	13437.972	56.45	74.0	17.55	Peak	99.00	300	Vertical	Pass
5**	13437.972	48.99	54.0	5.01	AV	99.00	300	Vertical	Pass
6	17420.430	55.19	74.0	18.81	Peak	348.00	300	Vertical	Pass
6**	17420.430	46.62	54.0	7.38	AV	348.00	300	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	1333.525	45.11	74.0	28.89	Peak	291.00	400	Horizontal	Pass
1**	1333.525	39.06	54.0	14.94	AV	291.00	400	Horizontal	Pass
2	3000.404	50.90	74.0	23.10	Peak	322.00	100	Horizontal	Pass
2**	3000.404	42.96	54.0	11.04	AV	322.00	100	Horizontal	Pass
3	4936.039	51.97	74.0	22.03	Peak	185.00	200	Horizontal	Pass
3**	4936.039	39.14	54.0	14.86	AV	185.00	200	Horizontal	Pass
4	6807.521	53.08	74.0	20.92	Peak	343.00	100	Horizontal	Pass
4**	6807.521	44.07	54.0	9.93	AV	343.00	100	Horizontal	Pass
5	13413.037	55.95	74.0	18.05	Peak	88.00	100	Horizontal	Pass
5**	13413.037	45.94	54.0	8.06	AV	88.00	100	Horizontal	Pass
6	17423.488	58.50	74.0	15.50	Peak	170.00	200	Horizontal	Pass
6**	17423.488	50.20	54.0	3.80	AV	170.00	200	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	1336.141	43.85	74.0	30.15	Peak	57.00	100	Vertical	Pass
1**	1336.141	38.77	54.0	15.23	AV	57.00	100	Vertical	Pass
2	2985.229	52.00	74.0	22.00	Peak	136.00	300	Vertical	Pass
2**	2985.229	39.36	54.0	14.64	AV	136.00	300	Vertical	Pass
3	4853.919	49.82	74.0	24.18	Peak	39.00	200	Vertical	Pass
3**	4853.919	40.14	54.0	13.86	AV	39.00	200	Vertical	Pass
4	6606.348	55.90	74.0	18.10	Peak	226.00	400	Vertical	Pass
4**	6606.348	44.03	54.0	9.97	AV	226.00	400	Vertical	Pass
5	13432.877	54.96	74.0	19.04	Peak	120.00	100	Vertical	Pass
5**	13432.877	45.05	54.0	8.95	AV	120.00	100	Vertical	Pass
6	17413.964	58.69	74.0	15.31	Peak	323.00	200	Vertical	Pass
6**	17413.964	50.02	54.0	3.98	AV	323.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.835	42.30	74.0	31.70	Peak	65.00	300	Horizontal	Pass
1**	1329.835	36.15	54.0	17.85	AV	65.00	300	Horizontal	Pass
2	2994.916	49.76	74.0	24.24	Peak	25.00	100	Horizontal	Pass
2**	2994.916	40.42	54.0	13.58	AV	25.00	100	Horizontal	Pass
3	4931.570	51.47	74.0	22.53	Peak	230.00	200	Horizontal	Pass
3**	4931.570	42.60	54.0	11.40	AV	230.00	200	Horizontal	Pass
4	6804.219	51.60	74.0	22.40	Peak	360.00	300	Horizontal	Pass
4**	6804.219	45.07	54.0	8.93	AV	360.00	300	Horizontal	Pass
5	13413.936	57.29	74.0	16.71	Peak	48.00	300	Horizontal	Pass
5**	13413.936	46.63	54.0	7.37	AV	48.00	300	Horizontal	Pass
6	17422.938	58.20	74.0	15.80	Peak	38.00	200	Horizontal	Pass
6**	17422.938	46.72	54.0	7.28	AV	38.00	200	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	1331.550	44.13	74.0	29.87	Peak	256.00	300	Vertical	Pass
1**	1331.550	38.19	54.0	15.81	AV	256.00	300	Vertical	Pass
2	2980.181	47.43	74.0	26.57	Peak	192.00	200	Vertical	Pass
2**	2980.181	42.79	54.0	11.21	AV	192.00	200	Vertical	Pass
3	4856.013	47.79	74.0	26.21	Peak	328.00	200	Vertical	Pass
3**	4856.013	40.34	54.0	13.66	AV	328.00	200	Vertical	Pass
4	6603.898	55.75	74.0	18.25	Peak	167.00	100	Vertical	Pass
4**	6603.898	45.93	54.0	8.07	AV	167.00	100	Vertical	Pass
5	13432.061	55.95	74.0	18.05	Peak	286.00	400	Vertical	Pass
5**	13432.061	49.35	54.0	4.65	AV	286.00	400	Vertical	Pass
6	17413.764	58.34	74.0	15.66	Peak	186.00	300	Vertical	Pass
6**	17413.764	46.28	54.0	7.72	AV	186.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.152	45.88	74.0	28.12	Peak	146.00	300	Horizontal	Pass
1**	1328.152	38.10	54.0	15.90	AV	146.00	300	Horizontal	Pass
2	2993.839	49.08	74.0	24.92	Peak	189.00	400	Horizontal	Pass
2**	2993.839	42.45	54.0	11.55	AV	189.00	400	Horizontal	Pass
3	4938.345	49.13	74.0	24.87	Peak	178.00	200	Horizontal	Pass
3**	4938.345	39.92	54.0	14.08	AV	178.00	200	Horizontal	Pass
4	6805.859	56.83	74.0	17.17	Peak	175.00	300	Horizontal	Pass
4**	6805.859	44.09	54.0	9.91	AV	175.00	300	Horizontal	Pass
5	13413.628	55.93	74.0	18.07	Peak	108.00	400	Horizontal	Pass
5**	13413.628	47.45	54.0	6.55	AV	108.00	400	Horizontal	Pass
6	17425.034	58.54	74.0	15.46	Peak	59.00	100	Horizontal	Pass
6**	17425.034	50.28	54.0	3.72	AV	59.00	100	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	1330.457	43.05	74.0	30.95	Peak	57.00	200	Vertical	Pass
1**	1330.457	36.66	54.0	17.34	AV	57.00	200	Vertical	Pass
2	2983.785	49.66	74.0	24.34	Peak	153.00	100	Vertical	Pass
2**	2983.785	42.48	54.0	11.52	AV	153.00	100	Vertical	Pass
3	4856.272	46.58	74.0	27.42	Peak	343.00	200	Vertical	Pass
3**	4856.272	39.47	54.0	14.53	AV	343.00	200	Vertical	Pass
4	6609.154	52.80	74.0	21.20	Peak	253.00	400	Vertical	Pass
4**	6609.154	47.15	54.0	6.85	AV	253.00	400	Vertical	Pass
5	13432.056	55.22	74.0	18.78	Peak	266.00	300	Vertical	Pass
5**	13432.056	45.93	54.0	8.07	AV	266.00	300	Vertical	Pass
6	17419.685	58.59	74.0	15.41	Peak	74.00	200	Vertical	Pass
6**	17419.685	49.57	54.0	4.43	AV	74.00	200	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 C63.10-2013, 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.

Test Data

802.11b LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2353.050	55.53	74.0	18.47	Peak	195.00	200	Horizontal	Pass
1**	2353.050	43.95	54.0	10.05	AV	195.00	200	Horizontal	Pass
2	2389.950	52.75	74.0	21.25	Peak	243.00	200	Horizontal	Pass
2**	2389.950	43.84	54.0	10.16	AV	243.00	200	Horizontal	Pass

802.11b HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.575	54.62	74.0	19.38	Peak	116.00	200	Horizontal	Pass
1**	2483.575	44.95	54.0	9.05	AV	116.00	200	Horizontal	Pass
2	2487.430	56.52	74.0	17.48	Peak	199.00	200	Horizontal	Pass
2**	2487.430	45.10	54.0	8.90	AV	199.00	200	Horizontal	Pass

802.11g LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.400	57.73	74.0	16.27	Peak	163.00	150	Horizontal	Pass
1**	2389.400	47.76	54.0	6.24	AV	163.00	150	Horizontal	Pass
2	2389.950	55.87	74.0	18.13	Peak	158.00	150	Horizontal	Pass
2**	2389.950	47.75	54.0	6.25	AV	158.00	150	Horizontal	Pass

802.11g HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.530	57.23	74.0	16.77	Peak	187.00	200	Horizontal	Pass
1**	2483.530	48.81	54.0	5.19	AV	187.00	200	Horizontal	Pass
2	2489.185	57.13	74.0	16.87	Peak	194.00	100	Horizontal	Pass
2**	2489.185	46.68	54.0	7.32	AV	194.00	100	Horizontal	Pass

802.11n20 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.800	56.86	74.0	17.14	Peak	154.00	200	Horizontal	Pass
1**	2389.800	48.13	54.0	5.87	AV	154.00	200	Horizontal	Pass
2	2389.950	56.48	74.0	17.52	Peak	163.00	200	Horizontal	Pass
2**	2389.950	48.83	54.0	5.17	AV	163.00	200	Horizontal	Pass

802.11n20 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.530	57.10	74.0	16.90	Peak	246.00	150	Horizontal	Pass
1**	2483.530	49.34	54.0	4.66	AV	246.00	150	Horizontal	Pass
2	2484.115	58.32	74.0	15.68	Peak	67.00	100	Horizontal	Pass
2**	2484.115	49.85	54.0	4.15	AV	67.00	100	Horizontal	Pass
3	2483.890	57.71	74.0	16.29	Peak	187.00	100	Horizontal	Pass
3**	2483.890	50.04	54.0	3.96	AV	187.00	100	Horizontal	Pass

802.11n40 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.950	57.95	74.0	16.05	Peak	158.00	150	Horizontal	Pass
1**	2389.950	50.00	54.0	4.00	AV	158.00	150	Horizontal	Pass
2	2387.250	55.40	74.0	18.60	Peak	198.00	100	Horizontal	Pass
2**	2387.250	48.95	54.0	5.05	AV	198.00	100	Horizontal	Pass

802.11n40 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.560	58.10	74.0	15.90	Peak	253.00	100	Horizontal	Pass
1**	2483.560	48.36	54.0	5.64	AV	253.00	100	Horizontal	Pass
2	2486.860	58.92	74.0	15.08	Peak	65.00	100	Horizontal	Pass
2**	2486.860	49.00	54.0	5.00	AV	65.00	100	Horizontal	Pass

802.11ax20(SU) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2386.950	60.98	74.0	13.02	Peak	162.00	150	Horizontal	Pass
1**	2386.950	47.91	54.0	6.09	AV	162.00	150	Horizontal	Pass
2	2389.950	57.43	74.0	16.57	Peak	145.00	150	Horizontal	Pass
2**	2389.950	48.18	54.0	5.82	AV	145.00	150	Horizontal	Pass

802.11ax20(SU) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.545	59.88	74.0	14.12	Peak	192.00	200	Horizontal	Pass
1**	2483.545	48.86	54.0	5.14	AV	192.00	200	Horizontal	Pass
2	2483.785	60.39	74.0	13.61	Peak	70.00	150	Horizontal	Pass
2**	2483.785	49.05	54.0	4.95	AV	70.00	150	Horizontal	Pass

802.11ax40(SU) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2387.850	59.94	74.0	14.06	Peak	163.00	100	Horizontal	Pass
1**	2387.850	50.46	54.0	3.54	AV	163.00	100	Horizontal	Pass
2	2389.950	59.07	74.0	14.93	Peak	156.00	200	Horizontal	Pass
2**	2389.950	50.24	54.0	3.76	AV	156.00	200	Horizontal	Pass
3	2386.150	58.47	74.0	15.53	Peak	160.00	100	Horizontal	Pass
3**	2386.150	51.00	54.0	3.00	AV	160.00	100	Horizontal	Pass

802.11ax40(SU) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.575	58.69	74.0	15.31	Peak	69.00	100	Horizontal	Pass
1**	2483.575	49.63	54.0	4.37	AV	69.00	100	Horizontal	Pass
2	2485.765	59.05	74.0	14.95	Peak	194.00	200	Horizontal	Pass
2**	2485.765	49.03	54.0	4.97	AV	194.00	200	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.67	8
Middle	-14.48	8
High	-13.87	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.76	8
Middle	-15.94	8
High	-15.94	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.10	8
Middle	-16.24	8
High	-14.87	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-19.38	8
Middle	-18.41	8
High	-18.43	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.01	8
Middle	-16.63	8
High	-16.80	8

802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-18.76	8
Middle	-17.78	8
High	-18.30	8

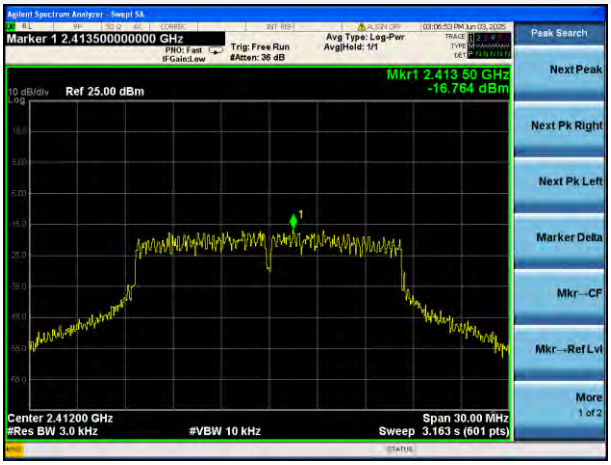
Test Plots

802.11b LOW CHANNEL

802.11b MIDDLE CHANNEL

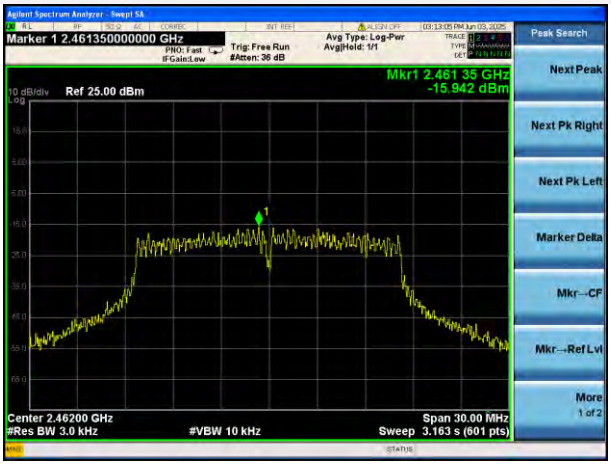
802.11b HIGH CHANNEL

802.11g LOW CHANNEL

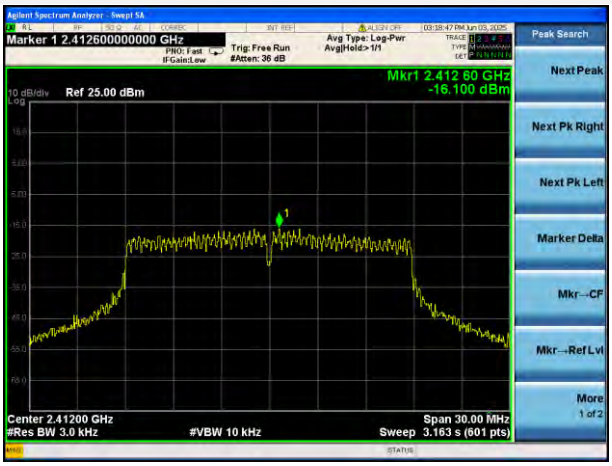


802.11g MIDDLE CHANNEL

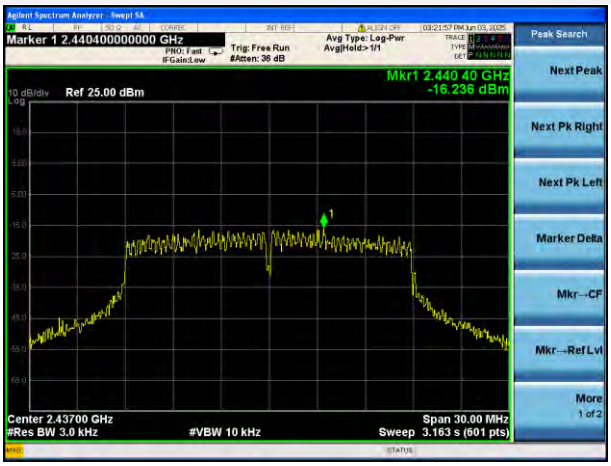
802.11g HIGH CHANNEL



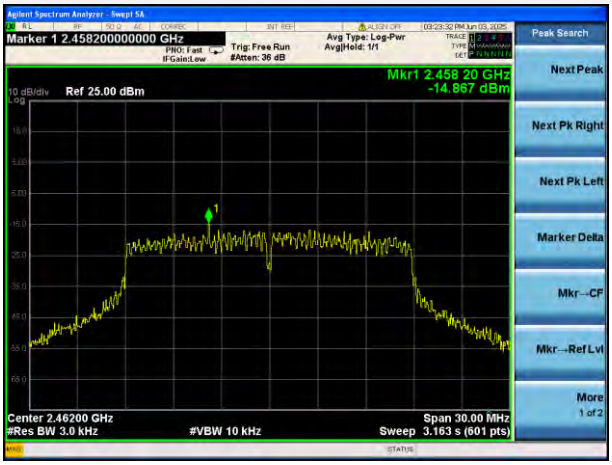
802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL

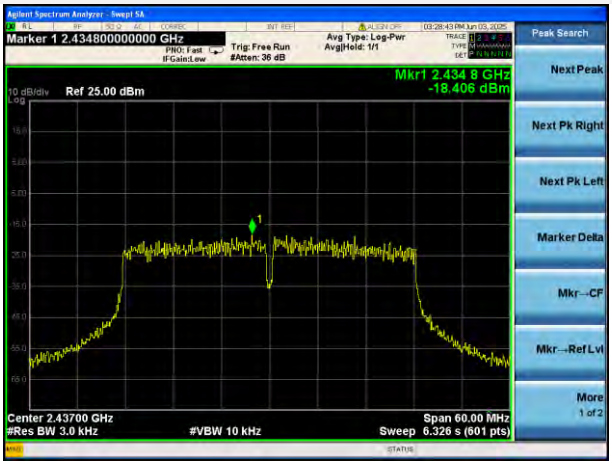


802.11n-20 MHz HIGH CHANNEL

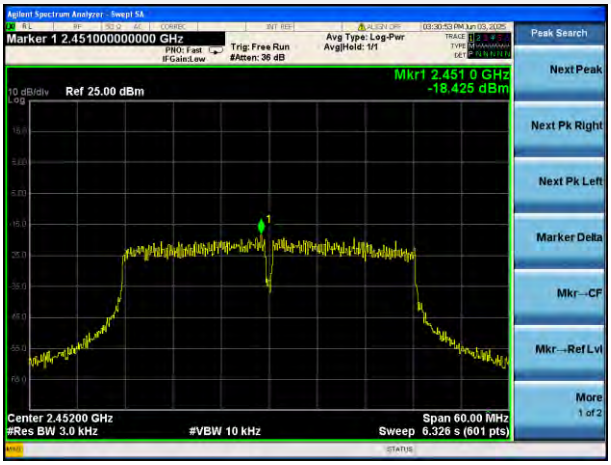


802.11n-40 MHz LOW CHANNEL

802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



802.11ax-20 MHz(SU) LOW CHANNEL

802.11ax-20 MHz(SU) MIDDLE CHANNEL

802.11ax-20 MHz(SU) HIGH CHANNEL

802.11ax-40 MHz(SU) LOW CHANNEL

802.11ax-40 MHz(SU) MIDDLE CHANNEL

802.11ax-40 MHz(SU) HIGH CHANNEL

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2541711-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2541711-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2541711-AI.PDF”.

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--END OF REPORT--