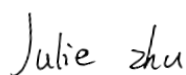


TEST REPORT

Applicant: Xiaomi Communications Co., Ltd.
Address: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,
Haidian District, Beijing, China, 100085
Equipment Type: Mobile Phone
Model Name: 23129RA5FL
Brand Name: Redmi
FCC ID: 2AFZZA5FL
Test Standard: 47 CFR Part 15 Subpart C
(refer to section 3.1)
Sample Arrival Date: Sep. 28, 2023
Test Date: Oct. 08, 2023 - Oct. 24, 2023
Date of Issue: Nov. 09, 2023

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Julie Zhu**Checked by:** Ye Hongji**Approved by:** Liao Jianming
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Nov. 09, 2023</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.2 Manufacturer Information

Manufacturer	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	23129RA5FL
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	135100N7
Software Version	MIUI14
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	S28, S07
IMEI Number	S28: IMEI1 869912060064041
	S07: IMEI1 869912060054869

2.4 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 3G Network WCDMA/HSDPA/HSUPA/DC-HSDPA Band 1/2/4/5/8 4G Network FDD LTE Band 1/2/3/4/5/7/8/12/13/17/18/19/26/28/66 TDD LTE Band 38/40/41 LTE CA Uplink (UL): CA_7C, CA_38C, CA_40C Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) 5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) Band 1/2/3, 5.8G SRD, GPS, GLONASS, Galileo, BDS, SBAS, FM receiver
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	802.11b/g/n(20 MHz): 2.412 GHz - 2.462 GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 1 to 11.
Modulation Type	DSSS, OFDM
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	-0.5 dBi
About the Product	Only the WIFI 802.11b, 802.11g, 802.11n (HT20), was tested in this report.

Modulation technology	Modulation Type	Transfer Rate (Mbps)(Single RF path)
DSSS (802.11b)	DBPSK	1
	DQPSK	2
	CCK	5.5/11
OFDM (802.11g)	BPSK	6/9
	QPSK	12/18
	16QAM	24/36
	64QAM	48/54
OFDM (802.11n-20 MHz)	BPSK	6.5/7.2
	QPSK	13/19.5/14.4/21.7
	16QAM	26/39/28.9/43.3
	64QAM	52/58.5/65/57.8/65/72.2

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	1/6/6.5 Mbps	1/6/11
Occupied Bandwidth	11b/11g/11n20	1/6/6.5 Mbps	1/6/11
Conducted Spurious Emission	11b/11g/11n20	1/6/6.5 Mbps	1/6/11
Conducted Emission	11b/11g/11n20	1/6/6.5 Mbps	1/6/11
Radiated Spurious Emission	11b/11g/11n20	1/6/6.5 Mbps	1/6/11
Band Edge	11b/11g/11n20	1/6/6.5 Mbps	1/6/11
Power spectral density (PSD)	11b/11g/11n20	1/6/6.5 Mbps	1/6/11

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	ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
3	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.	Test Result	Verdict
1	Antenna Requirement	15.203	N/A	Pass ^{Note 1}
2	Output Power	15.247 (b)	ANNEX A.1	Pass
3	Occupied Bandwidth	15.247 (a)	ANNEX A.2	Pass
4	Conducted Spurious Emission	15.247 (d)	ANNEX A.3	Pass
5	Band Edge(Authorized-band band-edge)	15.247 (d)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass
7	Radiated Spurious Emission	15.209; 15.247 (d)	ANNEX A.6	Pass
8	Band Edge(Restricted-band band-edge)	15.209; 15.247 (d)	ANNEX A.7	Pass
9	Power spectral density (PSD)	15.247 (e)	ANNEX A.8	Pass

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	53% to 61%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22.8°C to +25.6°C
Working Voltage of the EUT	NV (Normal Voltage)	3.89 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY50330200	2023.05.16	2024.05.15
Power Sensor	KEYSIGHT	U2063XA	MY58000251	2023.07.12	2024.07.11
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2022.12.28	2023.12.27
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2023.09.05	2024.09.04
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2023.06.19	2024.06.18
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2022.02.03	2025.02.02
Test Antenna-Horn	A-INFO	LB- 180400KF	J211060273	2021.07.02	2024.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	144	2022.02.19	2024.09.03
Amplifier	COM-MV	ZT30- 1000M	18110850	2023.09.05	2024.09.04
Amplifier	COM-MV	LSCX_LNA 1-12G-01	180602	2023.09.05	2024.09.04
Amplifier	COM-MV	XKu_LNA7- 18G-01	180601	2023.09.05	2024.09.04
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2022.12.07	2023.12.06
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2023.09.05	2024.09.04
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	00883	2022.04.01	2025.03.31
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2021.04.16	2024.04.15
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	130	2021.08.15	2024.08.14
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2023.09.05	2024.09.04
LISN	SCHWARZBECK	NSLK 8127	8127-687	2023.05.16	2024.05.15
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m* 2.8m	112	2022.02.19	2025.02.18

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°C
Humidity	4%

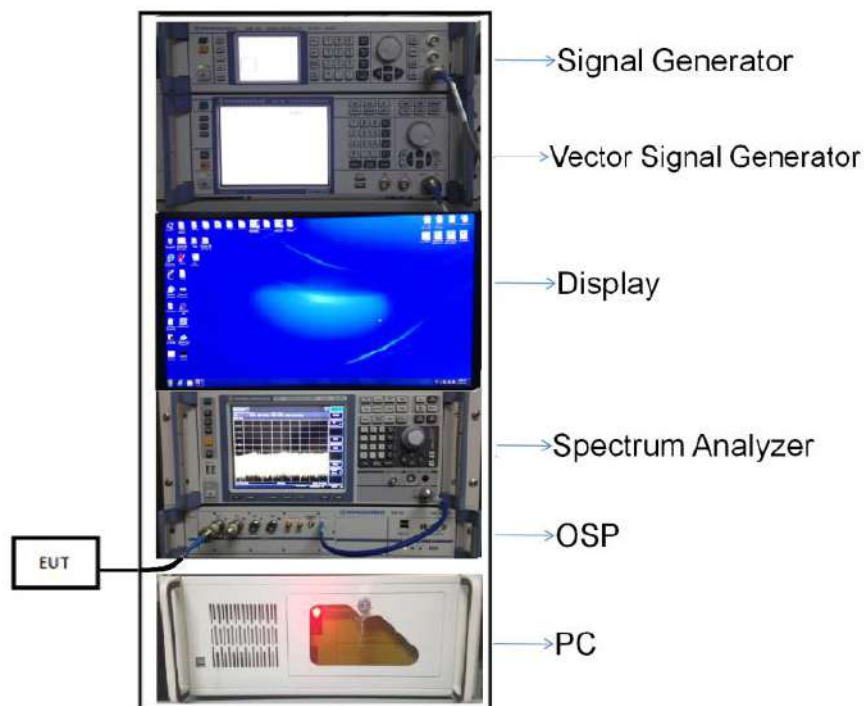
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

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

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



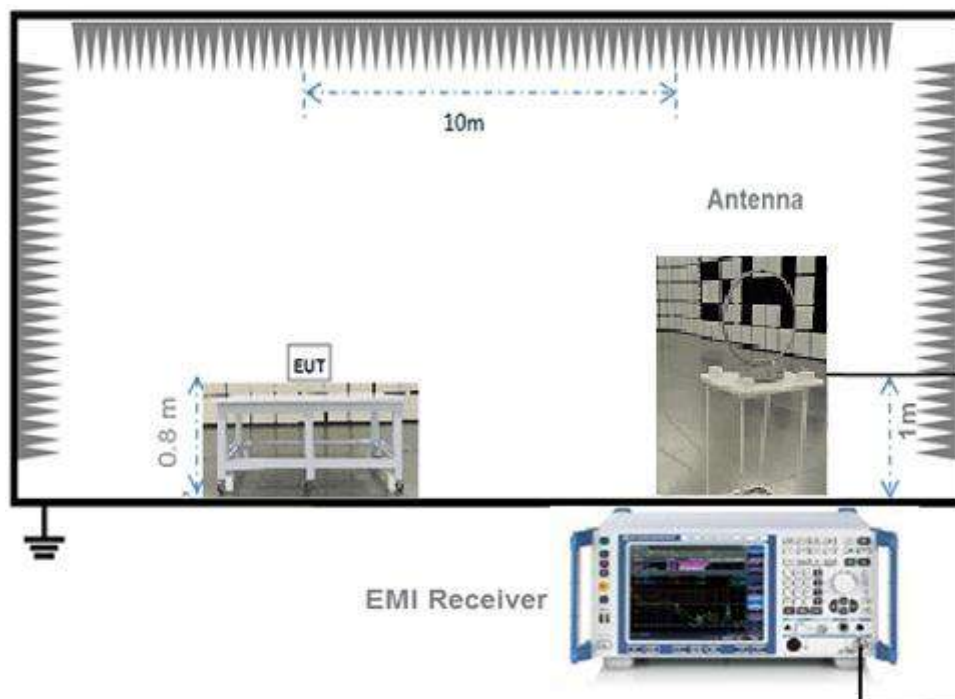
(Diagram 1)

4.5.2 For AC Power Supply Port Test



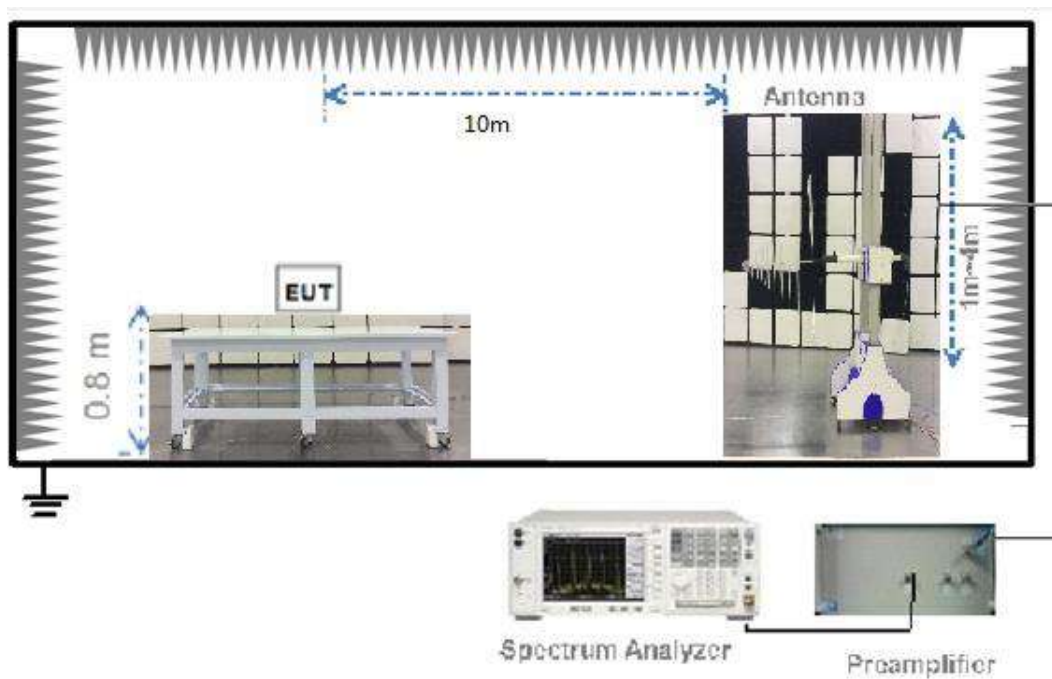
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



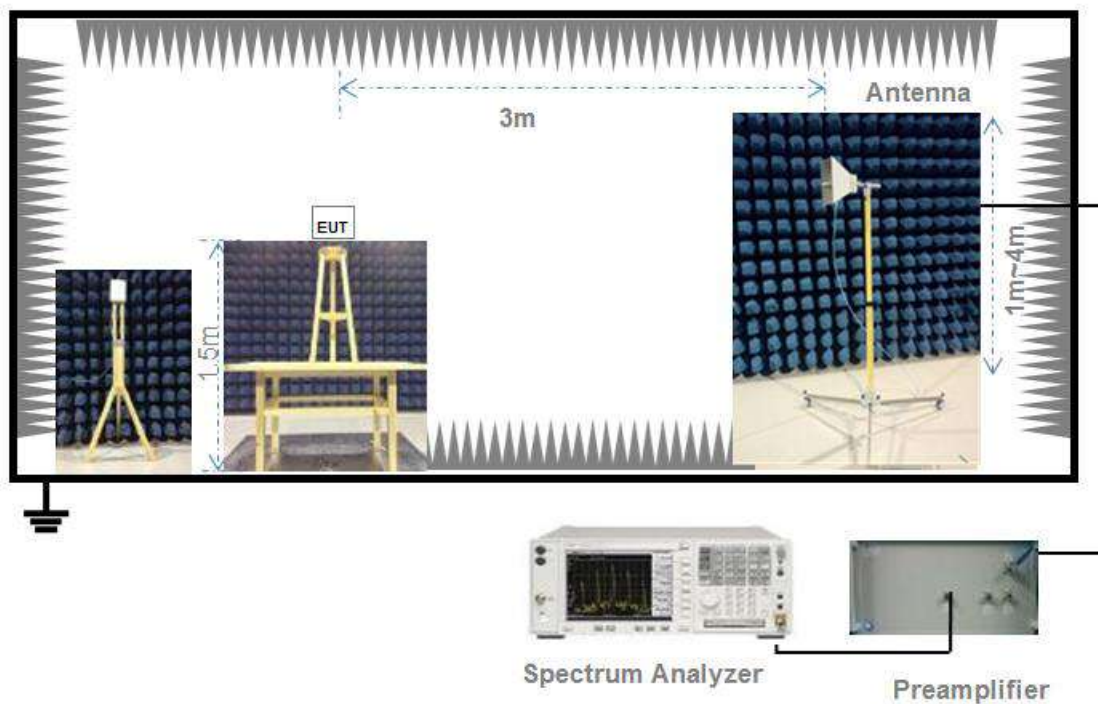
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.6 Measurement Results Explanation Example

4.6.1 For conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

4.6.2 For radiated band edges and spurious emission test:

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

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203

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

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

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

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

5.1.3 Antenna Gain

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

5.2 Output Power

5.2.1 Test Limit

FCC § 15.247(b)

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

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.

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 as

described in Section 6.0.

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

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

Measurements of duty cycle

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

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

Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.

Set $VBW \geq RBW$. Set detector = peak or average.

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

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC §15.247(a)

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

Use the following spectrum analyzer settings:

Set RBW = 100 kHz.

Set the video bandwidth (VBW) ≥ 3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

Allow the trace to stabilize.

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

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Conducted Spurious Emission

5.4.1 Limit

FCC §15.247(d)

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

5.4.2 Test Setup

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

5.4.3 Test Procedure

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

- a) If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).
- b) If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).
- c) In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required.

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

Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

Emission level measurement

Use the following spectrum analyzer settings:

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

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

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

5.4.4 Test Result

Please refer to ANNEX A.3.

5.5 Band Edge (Authorized-band band-edge)

5.5.1 Limit

FCC §15.247(d)

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

5.5.2 Test Setup

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

5.5.3 Test Procedure

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

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

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

Set span to 2 MHz

RBW = 100 kHz.

VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

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

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

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

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

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

Attenuation: Auto (at least 10 dB preferred).

Sweep time: Coupled.

Resolution bandwidth: 100 kHz.

Video bandwidth: 300 kHz.

Detector: Peak.

Trace: Max hold.

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Conducted Emission

5.6.1 Limit

FCC §15.207

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

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

5.6.2 Test Setup

See section 4.5.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.6.4 Test Result

Please refer to ANNEX A.5.

5.7 Radiated Spurious Emission

5.7.1 Limit

FCC §15.209&15.247(d)

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

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

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

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

5.7.2 Test Setup

See section 4.5.3 to 4.5.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

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

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

- f) Compare the resultant electric field strength level to the applicable limit.
- g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

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

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

Peak power measurement procedure

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

- a) RBW = as specified in Table 1.
- b) VBW $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be

longer for low duty cycle applications).

Table 1—RBW as a function of frequency

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

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

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

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

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

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Band Edge (Restricted-band band-edge)

5.8.1 Limit

FCC §15.209&15.247(d)

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

5.8.2 Test Setup

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

5.8.3 Test Procedure

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

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

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

5.8.4 Test Result

Please refer to ANNEX A.7.

5.9 Power Spectral density (PSD)

5.9.1 Limit

FCC §15.247(e)

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

5.9.2 Test Setup

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

5.9.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

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

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

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

5.9.4 Test Result

Please refer to ANNEX A.8.

ANNEX A TEST RESULT

A.1 Output Power

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
802.11b	8.356	8.550	97.73%
802.11g	1.386	1.424	97.33%
802.11n-20 MHz	1.300	1.338	97.16%

Peak Power Test Data

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	18.17	65.61	30	1000	Pass
CH2	18.27	67.14			Pass
CH3	19.33	85.70			Pass
CH4	19.48	88.72			Pass
CH5	19.67	92.68			Pass
CH6	19.17	82.60			Pass
CH7	19.99	99.77			Pass
CH8	20.87	122.18			Pass
CH9	20.23	105.44			Pass
CH10	20.58	114.29			Pass
CH11	20.27	106.41			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	20.63	115.61	30	1000	Pass
CH6	21.41	138.36			Pass
CH11	20.21	104.95			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	19.14	82.04	30	1000	Pass
CH6	20.22	105.20			Pass
CH11	18.68	73.79			Pass

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	15.04	31.92	30	1000	Pass
CH2	15.17	32.89			Pass
CH3	16.22	41.88			Pass
CH4	16.42	43.85			Pass
CH5	16.63	46.03			Pass
CH6	16.13	41.02			Pass
CH7	16.96	49.66			Pass
CH8	17.75	59.57			Pass
CH9	17.14	51.76			Pass
CH10	17.50	56.23			Pass
CH11	17.63	57.94			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	15.66	36.81	30	1000	Pass
CH6	16.26	42.27			Pass
CH11	15.06	32.06			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	14.05	25.41	30	1000	Pass
CH6	14.77	29.99			Pass
CH11	13.64	23.12			Pass

A.2 Occupied Bandwidth

Test Data

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	8.600000	13.856000	≥500
CH2	8.650000	13.737000	≥500
CH3	8.600000	13.727000	≥500
CH4	8.600000	13.716000	≥500
CH5	8.650000	13.729000	≥500
CH6	8.200000	13.832000	≥500
CH7	9.100000	13.861000	≥500
CH8	9.100000	13.903000	≥500
CH9	8.650000	13.903000	≥500
CH10	8.650000	13.864000	≥500
CH11	9.100000	13.857000	≥500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	15.800000	17.531000	≥500
CH6	15.400000	17.258000	≥500
CH11	15.550000	17.194000	≥500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	15.400000	18.465000	≥500
CH6	16.000000	18.243000	≥500
CH11	15.400000	18.188000	≥500

Test Plots

6 dB Bandwidth

802.11b CHANNEL 1



802.11b CHANNEL 2



802.11b CHANNEL 3



802.11b CHANNEL 4



802.11b CHANNEL 5



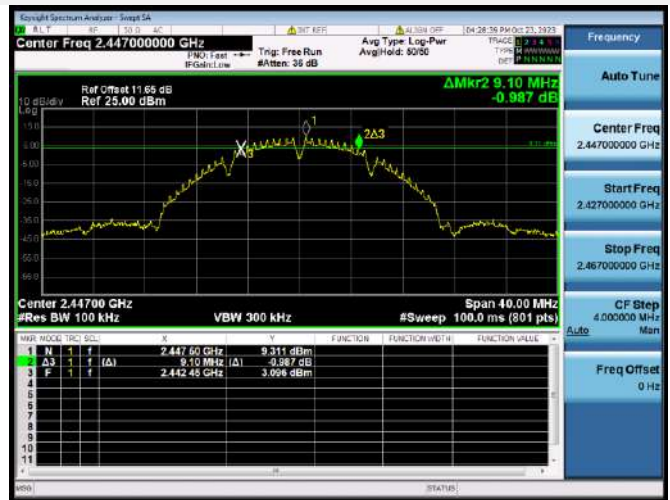
802.11b CHANNEL 6



802.11b CHANNEL 7



802.11b CHANNEL 8



802.11b CHANNEL 9



802.11b CHANNEL 10



802.11b CHANNEL 11



802.11g CHANNEL 1



802.11g CHANNEL 6



802.11g CHANNEL 11



802.11n-20 MHz CHANNEL 1



802.11n-20 MHz CHANNEL 6



802.11n-20 MHz CHANNEL 11



99% Bandwidth

802.11b CHANNEL 1



802.11b CHANNEL 2



802.11b CHANNEL 3



802.11b CHANNEL 4



802.11b CHANNEL 5



802.11b CHANNEL 6



802.11b CHANNEL 7



802.11b CHANNEL 8



802.11b CHANNEL 9



802.11b CHANNEL 10



802.11b CHANNEL 11



802.11g CHANNEL 1



802.11g CHANNEL 6



802.11g CHANNEL 11



802.11n-20 MHz CHANNEL 1



802.11n-20 MHz CHANNEL 6



802.11n-20 MHz CHANNEL 11



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	
CH1	-36.16	6.54	-13.46	Pass
CH2	-36.60	7.20	-12.80	Pass
CH3	-35.48	8.26	-11.75	Pass
CH4	-36.32	8.45	-11.55	Pass
CH5	-34.04	8.50	-11.50	Pass
CH6	-35.03	7.99	-12.01	Pass
CH7	-36.36	8.89	-11.11	Pass
CH8	-35.25	9.65	-10.36	Pass
CH9	-34.94	9.04	-10.96	Pass
CH10	-35.16	9.52	-10.48	Pass
CH11	-35.68	10.26	-9.74	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-36.28	6.29	-13.71	Pass
CH6	-35.85	7.12	-12.88	Pass
CH11	-36.84	6.59	-13.41	Pass

802.11n-20MHz Mode:

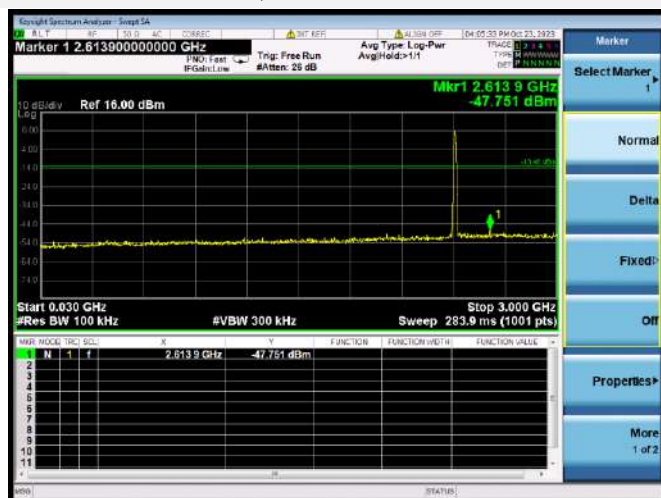
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-36.41	4.97	-15.03	Pass
CH6	-36.20	5.74	-14.26	Pass
CH11	-35.64	4.94	-15.06	Pass

Test Plots

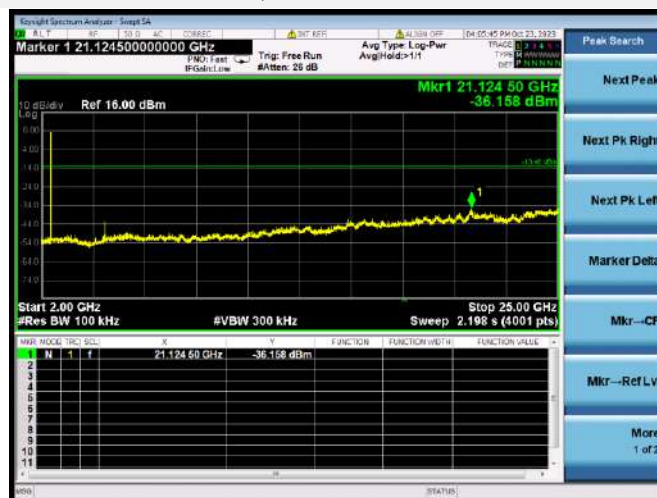
802.11b CHANNEL 1 CARRIER LEVEL



802.11b CHANNEL 1, SPURIOUS 30 MHz ~ 3 GHz



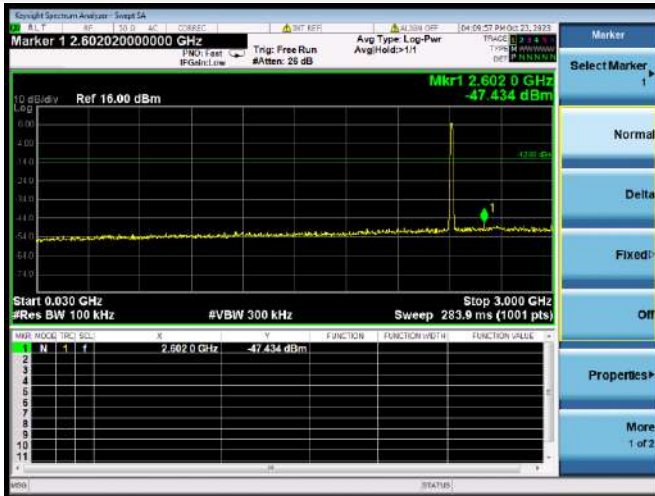
802.11b CHANNEL 1, SPURIOUS 2 GHz ~ 25 GHz



802.11b CHANNEL 2 CARRIER LEVEL



802.11b CHANNEL 2, SPURIOUS 30 MHz ~ 3 GHz



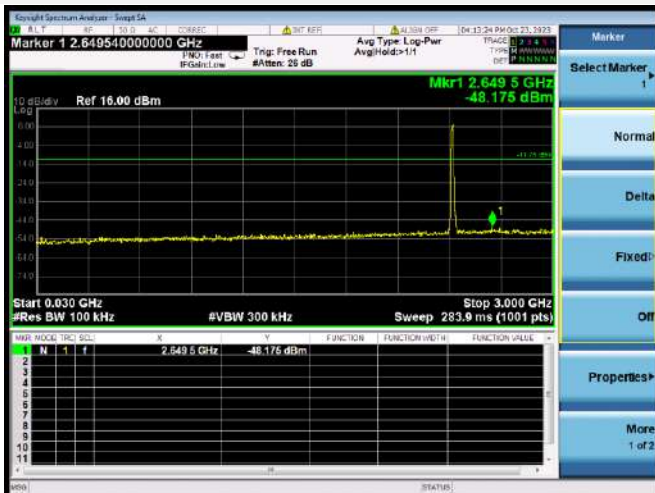
802.11b CHANNEL 2, SPURIOUS 2 GHz ~ 25 GHz



802.11b CHANNEL 3 CARRIER LEVEL



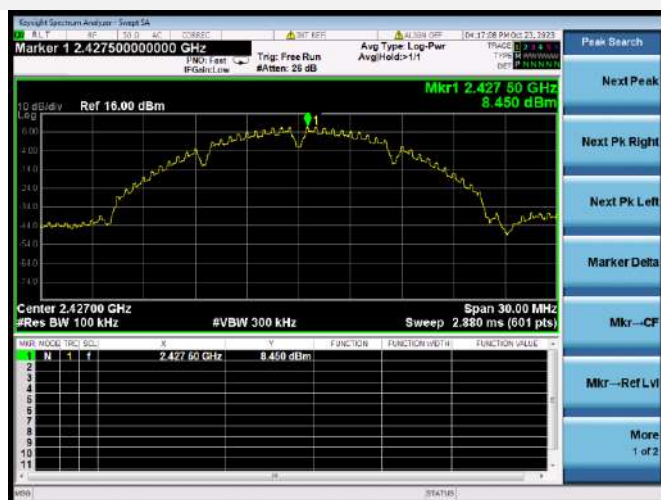
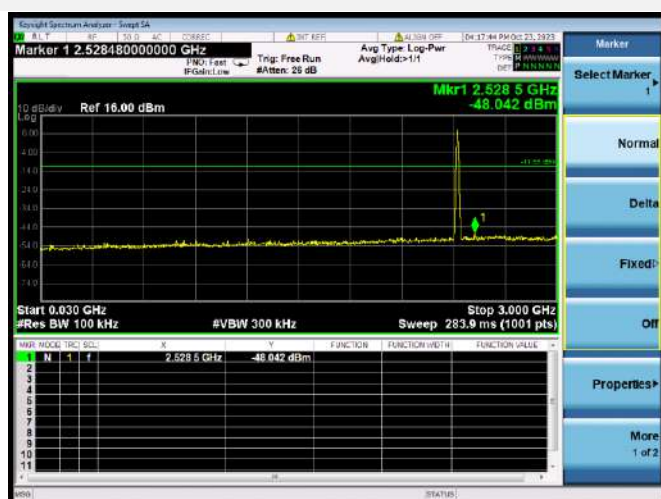
802.11b CHANNEL 3, SPURIOUS 30 MHz ~ 3 GHz



802.11b CHANNEL 3, SPURIOUS 2 GHz ~ 25 GHz



802.11b CHANNEL 4 CARRIER LEVEL

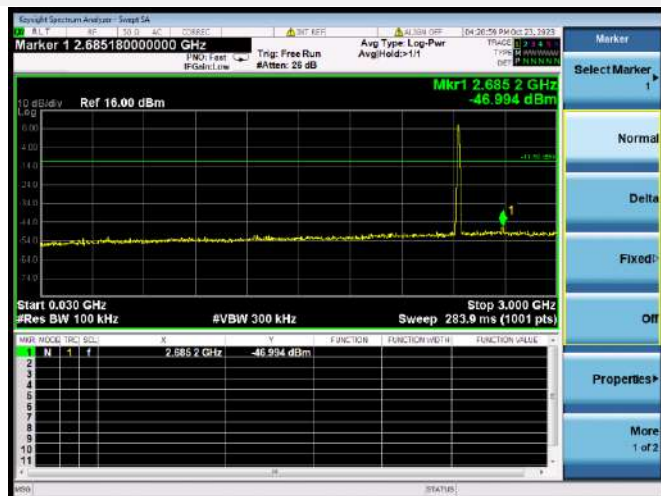
802.11b CHANNEL 4, SPURIOUS
30 MHz ~ 3 GHz802.11b CHANNEL 4, SPURIOUS
2 GHz ~ 25 GHz

802.11b CHANNEL 5 CARRIER LEVEL



802.11b CHANNEL 5, SPURIOUS

30 MHz ~ 3 GHz



802.11b CHANNEL 5, SPURIOUS

2 GHz ~ 25 GHz

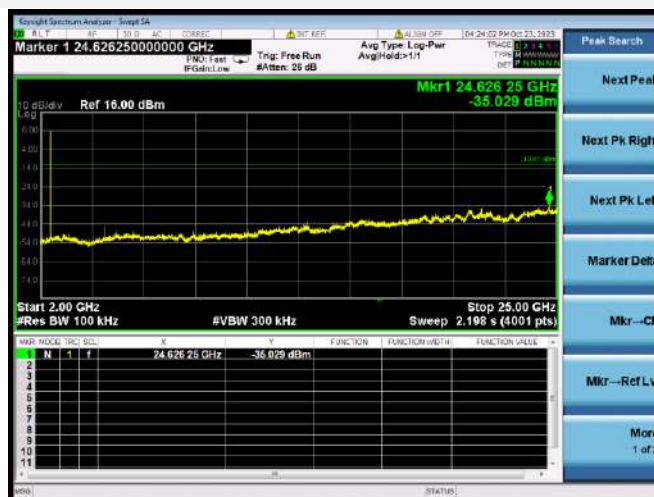


802.11b CHANNEL 6 CARRIER LEVEL



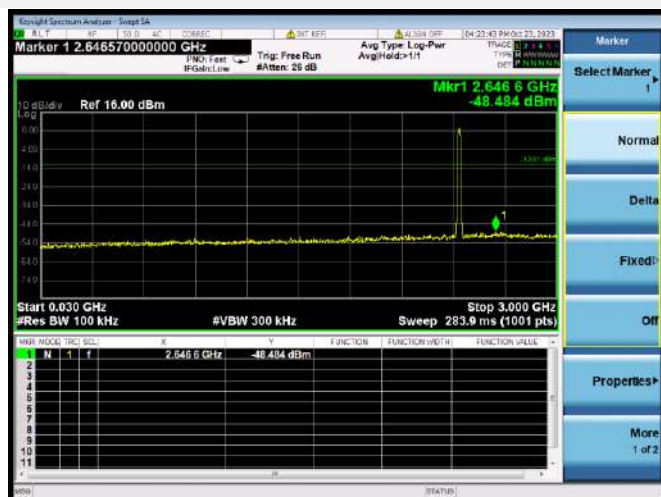
802.11b CHANNEL 6, SPURIOUS

2 GHz ~ 25 GHz

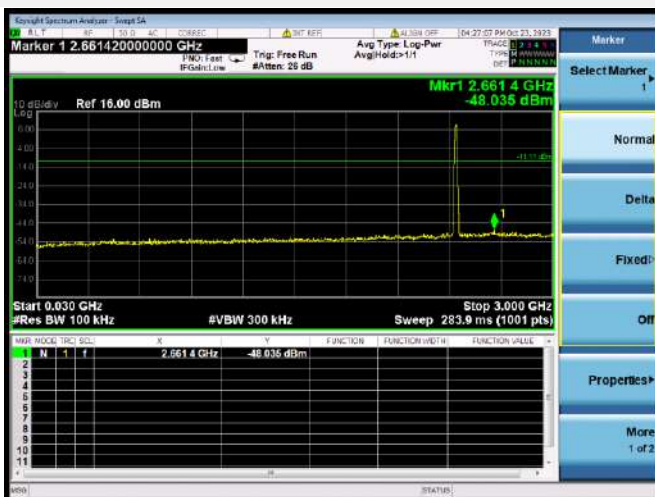
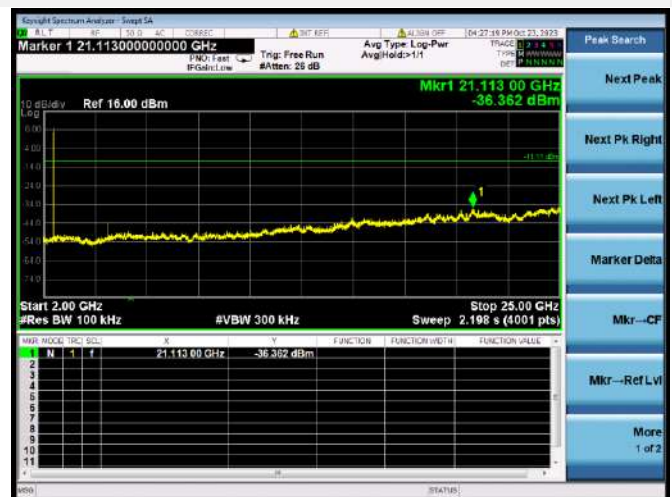


802.11b CHANNEL 6, SPURIOUS

30 MHz ~ 3 GHz



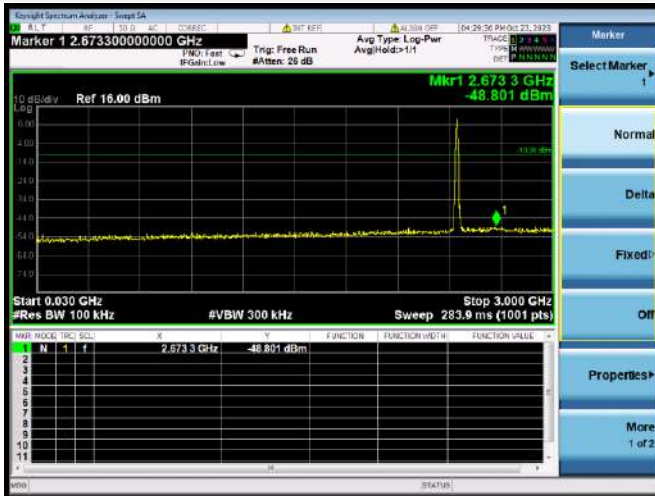
802.11b CHANNEL 7 CARRIER LEVEL

802.11b CHANNEL 7, SPURIOUS
30 MHz ~ 3 GHz802.11b CHANNEL 7, SPURIOUS
2 GHz ~ 25 GHz

802.11b CHANNEL 8 CARRIER LEVEL



802.11b CHANNEL 8, SPURIOUS 30 MHz ~ 3 GHz



802.11b CHANNEL 8, SPURIOUS 2 GHz ~ 25 GHz



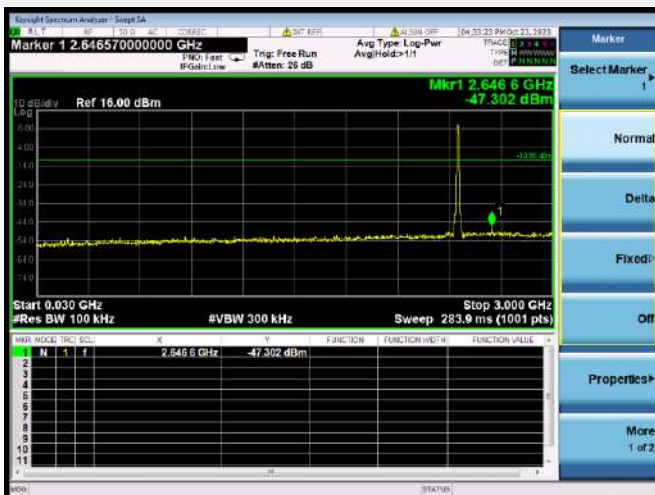
802.11b CHANNEL 9 CARRIER LEVEL



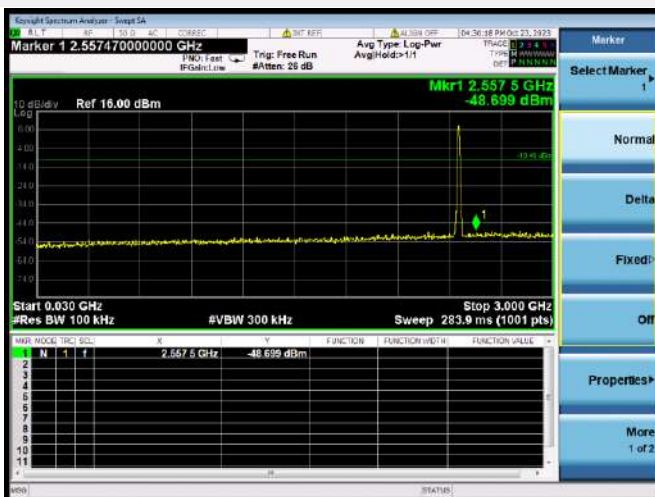
802.11b CHANNEL 9, SPURIOUS 2 GHz ~ 25 GHz



802.11b CHANNEL 9, SPURIOUS 30 MHz ~ 3 GHz



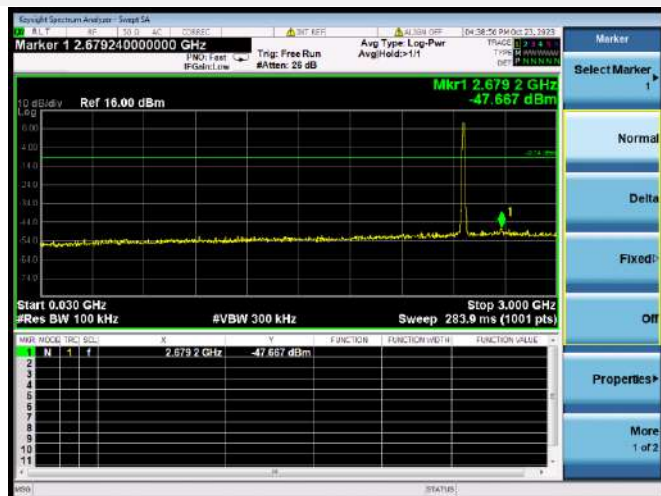
802.11b CHANNEL 10 CARRIER LEVEL

802.11b CHANNEL 10, SPURIOUS
30 MHz ~ 3 GHz802.11b CHANNEL 10, SPURIOUS
2 GHz ~ 25 GHz

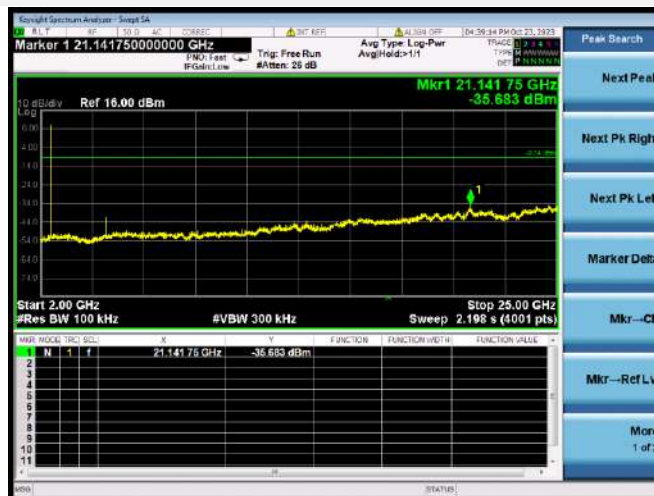
802.11b CHANNEL 11 CARRIER LEVEL



802.11b CHANNEL 11, SPURIOUS 30 MHz ~ 3 GHz



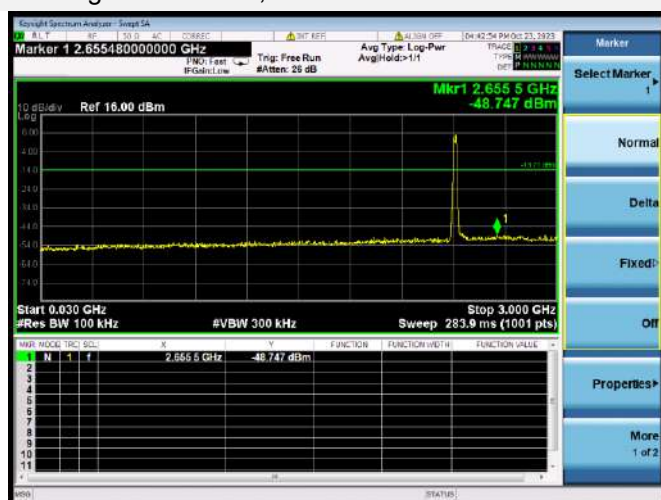
802.11b CHANNEL 11, SPURIOUS 2 GHz ~ 25 GHz



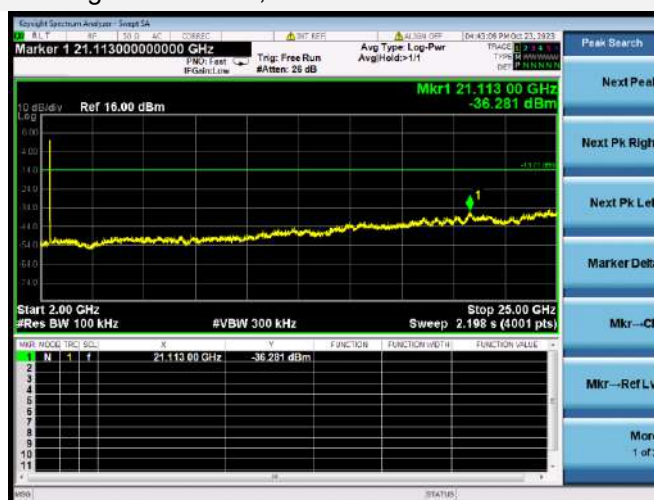
802.11g CHANNEL 1 CARRIER LEVEL



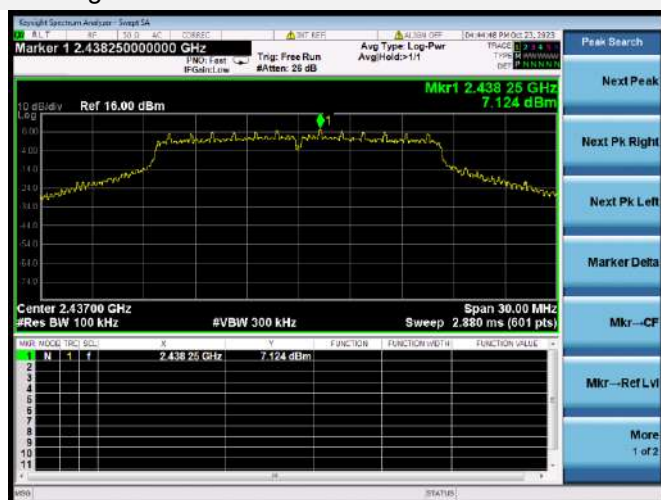
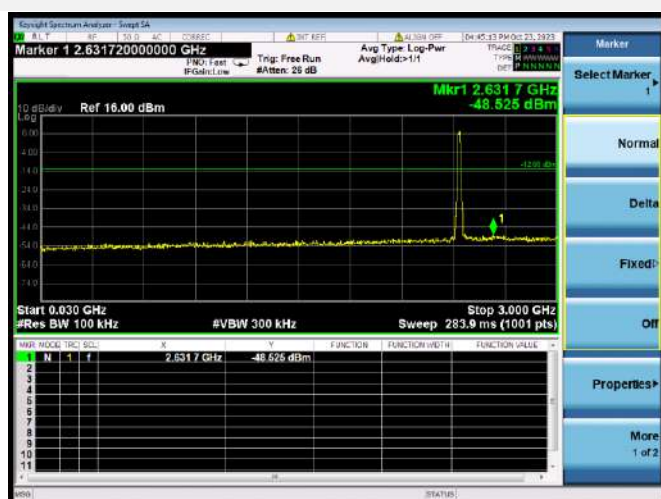
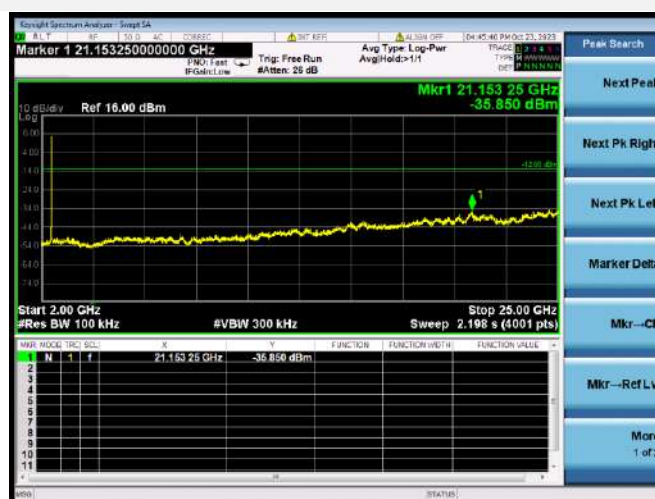
802.11g CHANNEL 1, SPURIOUS 30 MHz ~ 3 GHz



802.11g CHANNEL 1, SPURIOUS 2 GHz ~ 25 GHz



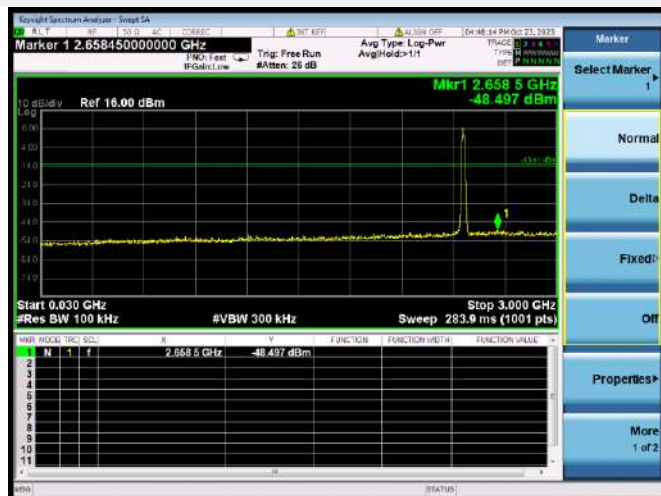
802.11g CHANNEL 6 CARRIER LEVEL

802.11g CHANNEL 6, SPURIOUS
30 MHz ~ 3 GHz802.11g CHANNEL 6, SPURIOUS
2 GHz ~ 25 GHz

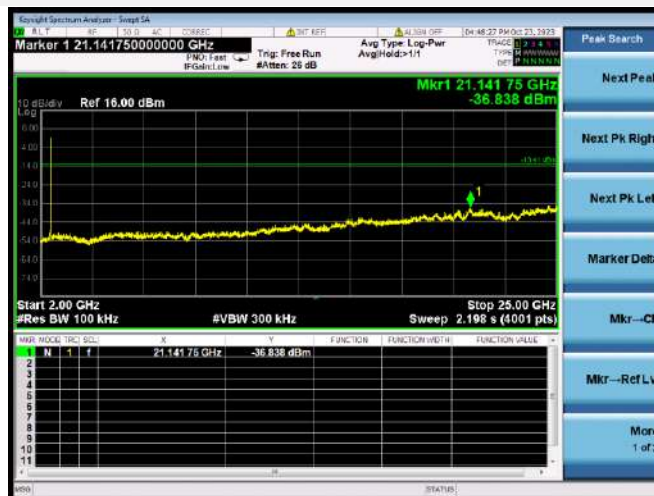
802.11g CHANNEL 11 CARRIER LEVEL



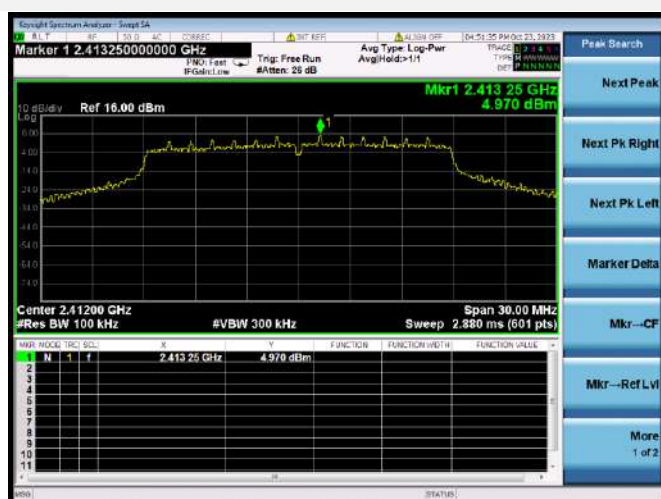
802.11g CHANNEL 11, SPURIOUS 30 MHz ~ 3 GHz



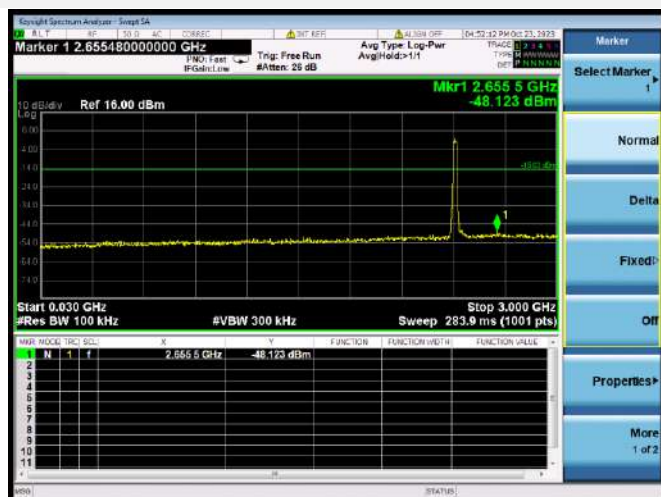
802.11g CHANNEL 11, SPURIOUS 2 GHz ~ 25 GHz



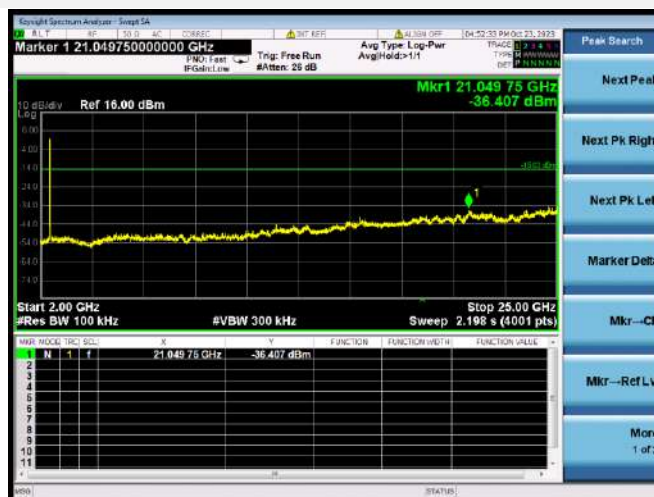
802.11n-20 MHz CHANNEL 1 CARRIER LEVEL



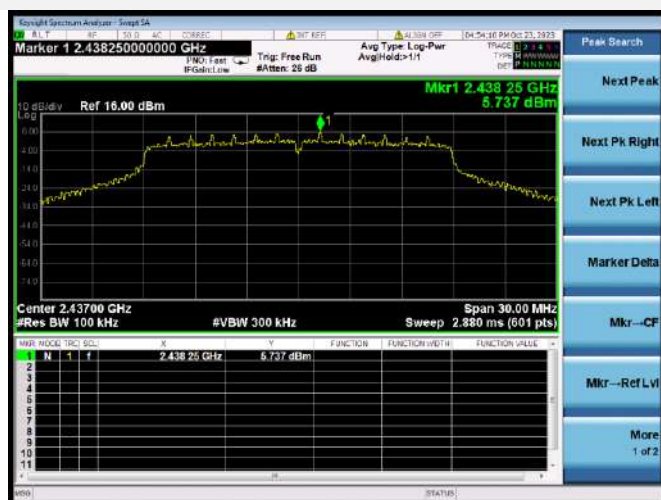
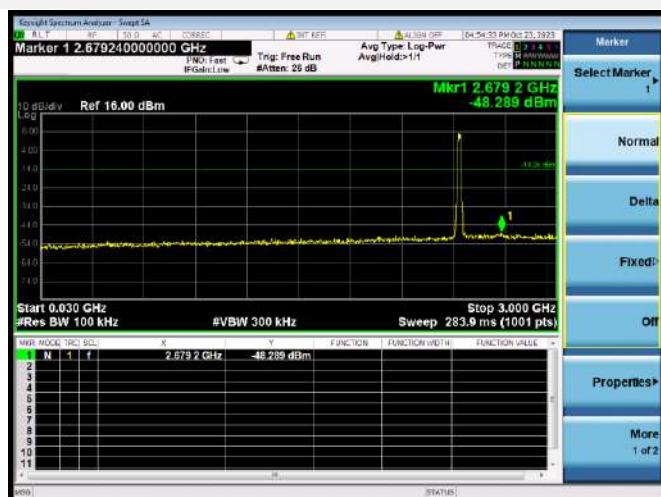
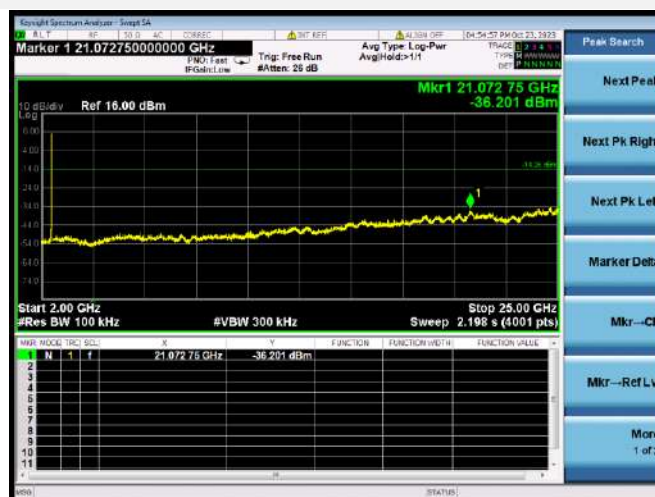
802.11n-20 MHz CHANNEL 1, SPURIOUS 30 MHz ~ 3 GHz



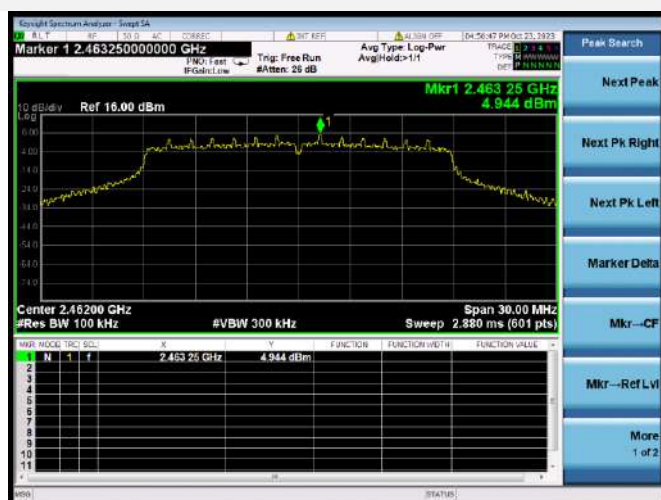
802.11n-20 MHz CHANNEL 1, SPURIOUS 2 GHz ~ 25 GHz

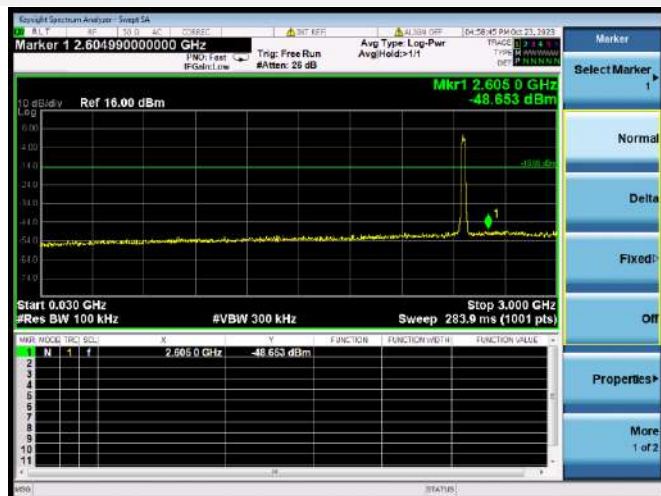
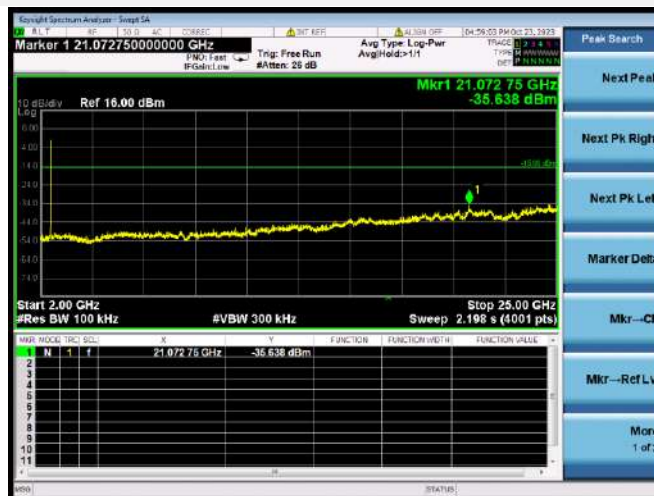


802.11n-20 MHz CHANNEL 6 CARRIER LEVEL

802.11n-20 MHz CHANNEL 6, SPURIOUS
30 MHz ~ 3 GHz802.11n-20 MHz CHANNEL 6, SPURIOUS
2 GHz ~ 25 GHz

802.11n-20 MHz CHANNEL 11 CARRIER LEVEL



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

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

Note 1: 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	
CH1	-37.56	8.50	-11.50	Pass
CH2	-45.16	8.89	-11.11	Pass
CH3	-45.72	8.50	-11.50	Pass
CH4	-45.90	8.50	-11.50	Pass
CH5	-46.90	8.89	-11.11	Pass
CH7	-46.02	8.89	-11.11	Pass
CH8	-45.66	8.89	-11.11	Pass
CH9	-45.79	9.04	-10.96	Pass
CH10	-45.19	9.04	-10.96	Pass
CH11	-45.37	10.26	-9.74	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-21.27	6.29	-13.71	Pass
CH11	-43.36	6.59	-13.41	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-22.95	4.97	-15.03	Pass
CH11	-43.67	4.94	-15.06	Pass

Test Plots

802.11b CHANNEL 1, CARRIER LEVEL



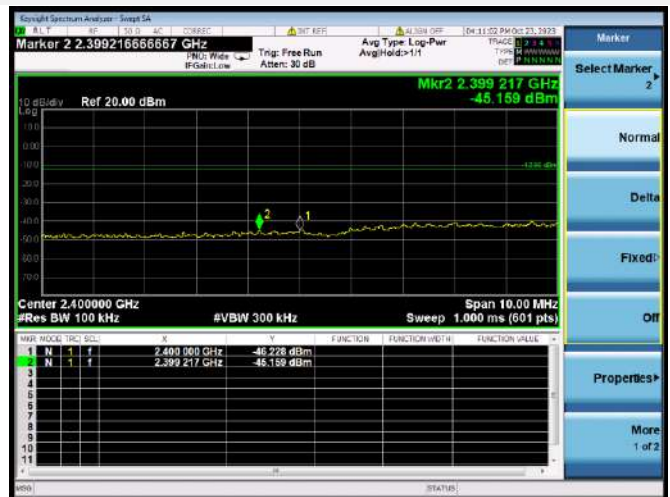
802.11b CHANNEL 1, BAND EDGE



802.11b CHANNEL 2, CARRIER LEVEL



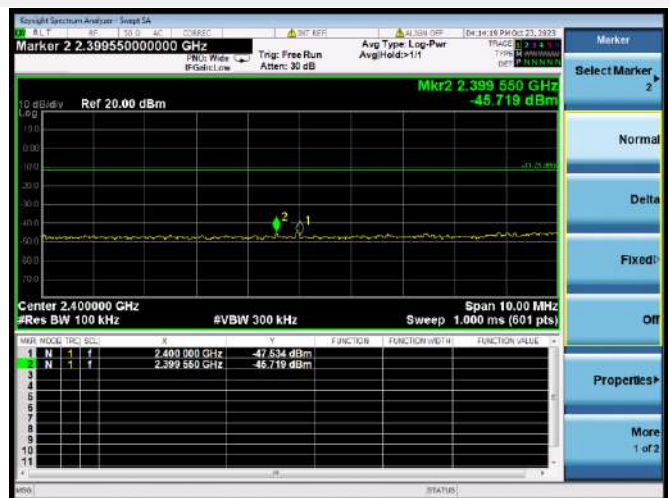
802.11b CHANNEL 2, BAND EDGE



802.11b CHANNEL 3, CARRIER LEVEL



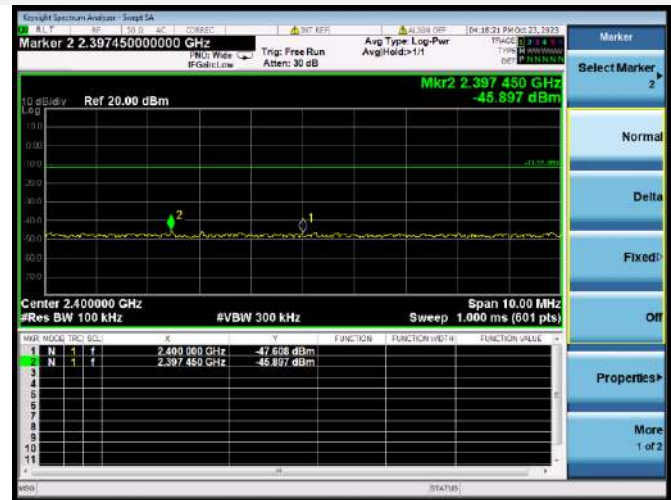
802.11b CHANNEL 3, BAND EDGE



802.11b CHANNEL 4, CARRIER LEVEL



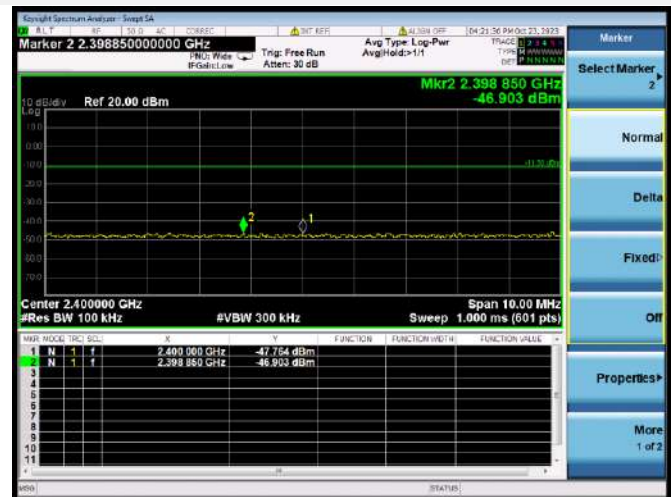
802.11b CHANNEL 4, BAND EDGE



802.11b CHANNEL 5, CARRIER LEVEL



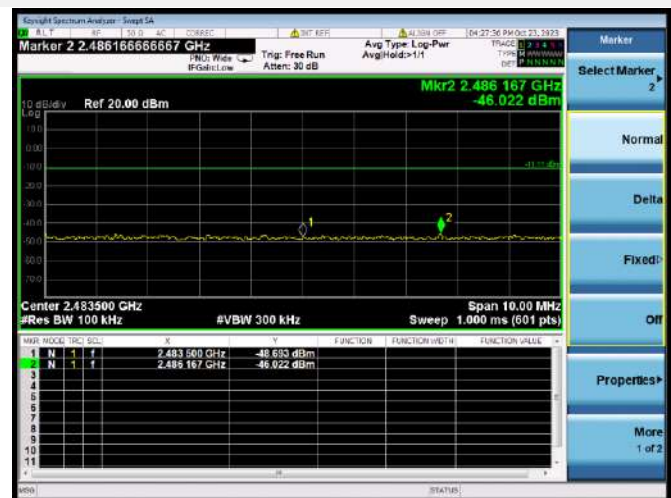
802.11b CHANNEL 5, BAND EDGE



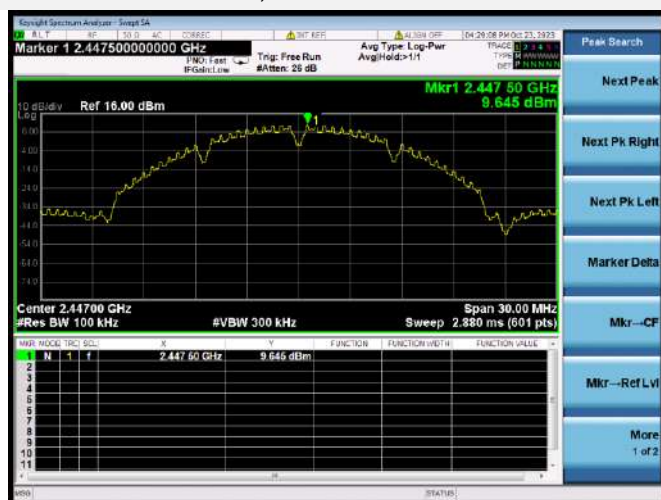
802.11b CHANNEL 7, CARRIER LEVEL



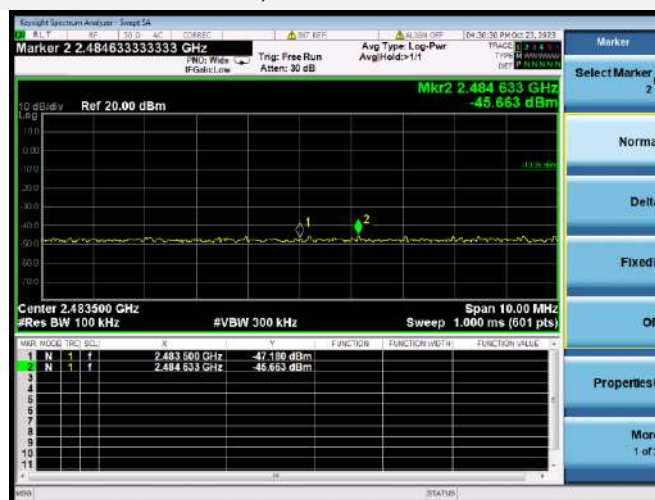
802.11b CHANNEL 7, BAND EDGE



802.11b CHANNEL 8, CARRIER LEVEL



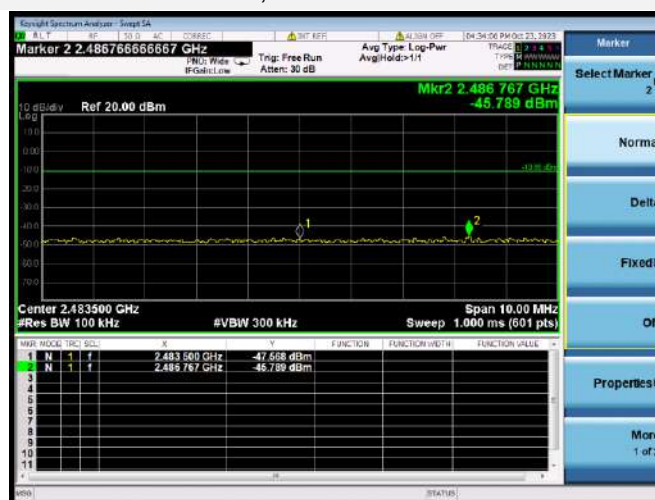
802.11b CHANNEL 8, BAND EDGE



802.11b CHANNEL 9, CARRIER LEVEL



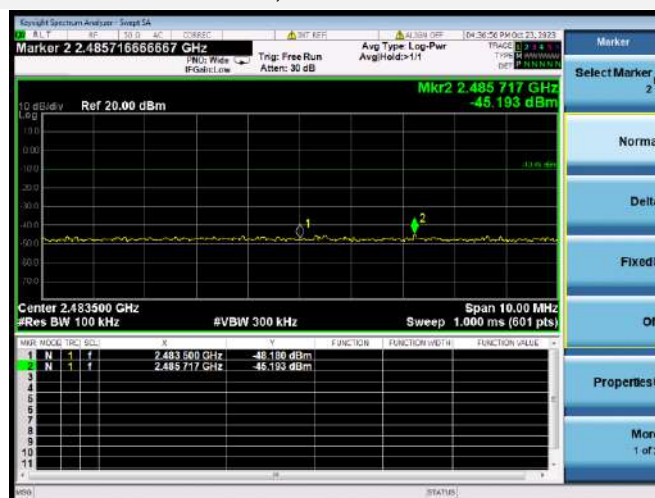
802.11b CHANNEL 9, BAND EDGE



802.11b CHANNEL 10, CARRIER LEVEL



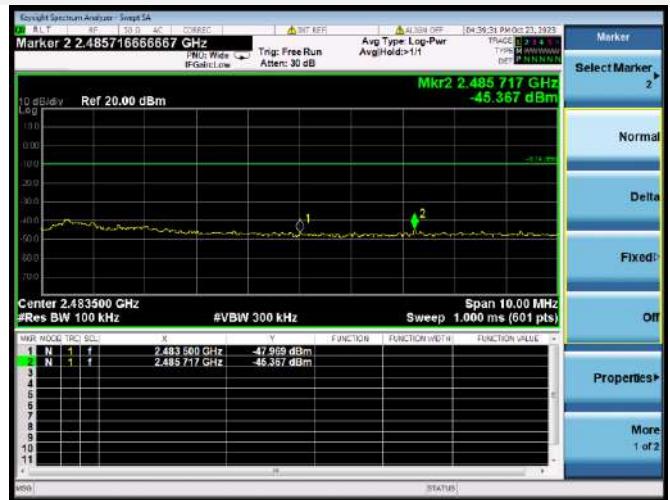
802.11b CHANNEL 10, BAND EDGE



802.11b CHANNEL 11, CARRIER LEVEL



802.11b CHANNEL 11, BAND EDGE



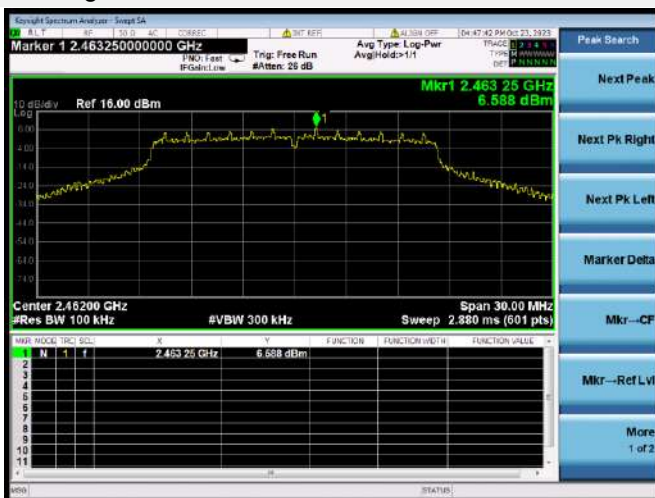
802.11g CHANNEL 1, CARRIER LEVEL



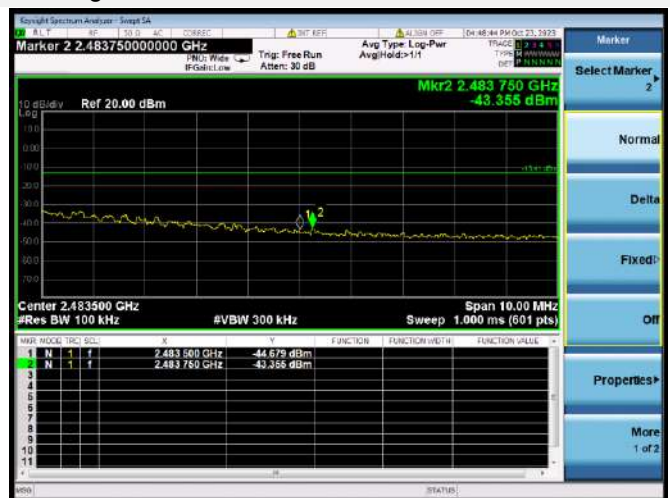
802.11g CHANNEL 1, BAND EDGE



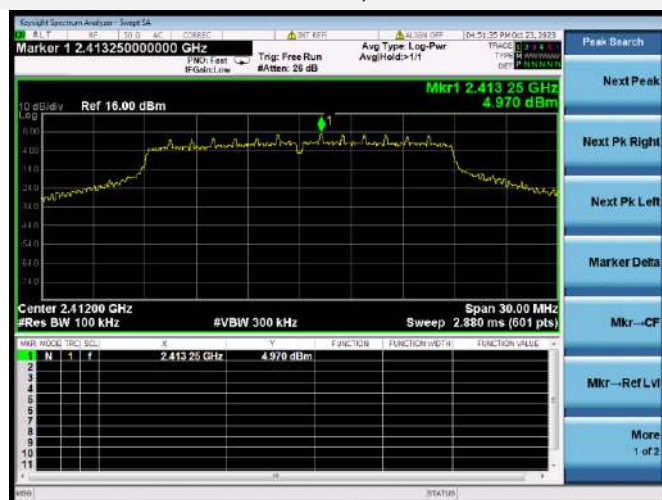
802.11g CHANNEL 11, CARRIER LEVEL



802.11g CHANNEL 11, BAND EDGE



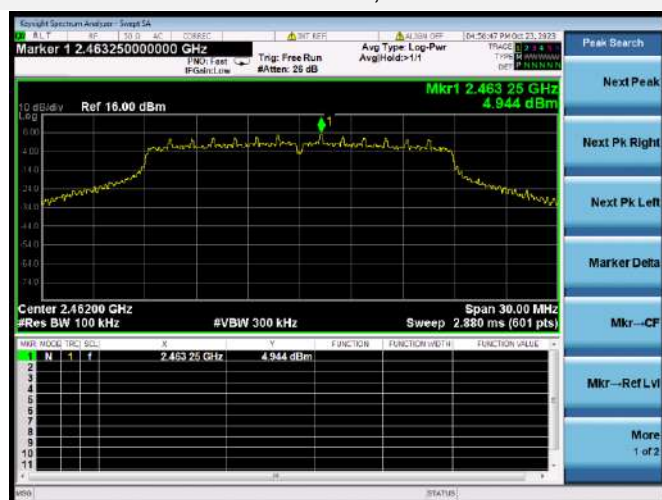
802.11n-20 MHz CHANNEL 1, CARRIER LEVEL



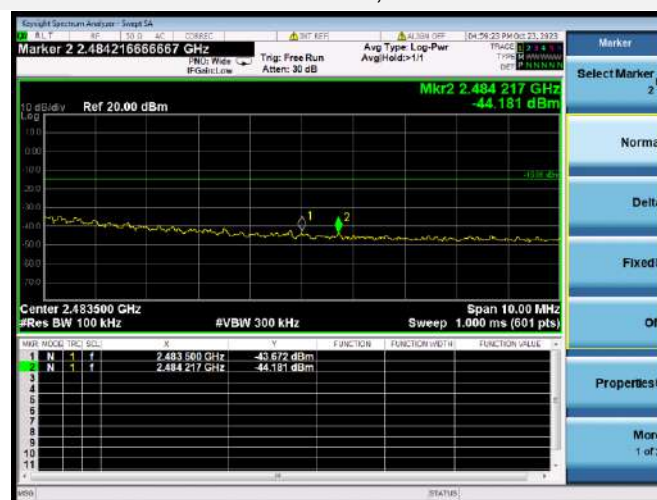
802.11n-20 MHz CHANNEL 1, BAND EDGE



802.11n-20 MHz CHANNEL 11, CARRIER LEVEL



802.11n-20 MHz CHANNEL 11, BAND EDGE



A.5 Conducted Emissions

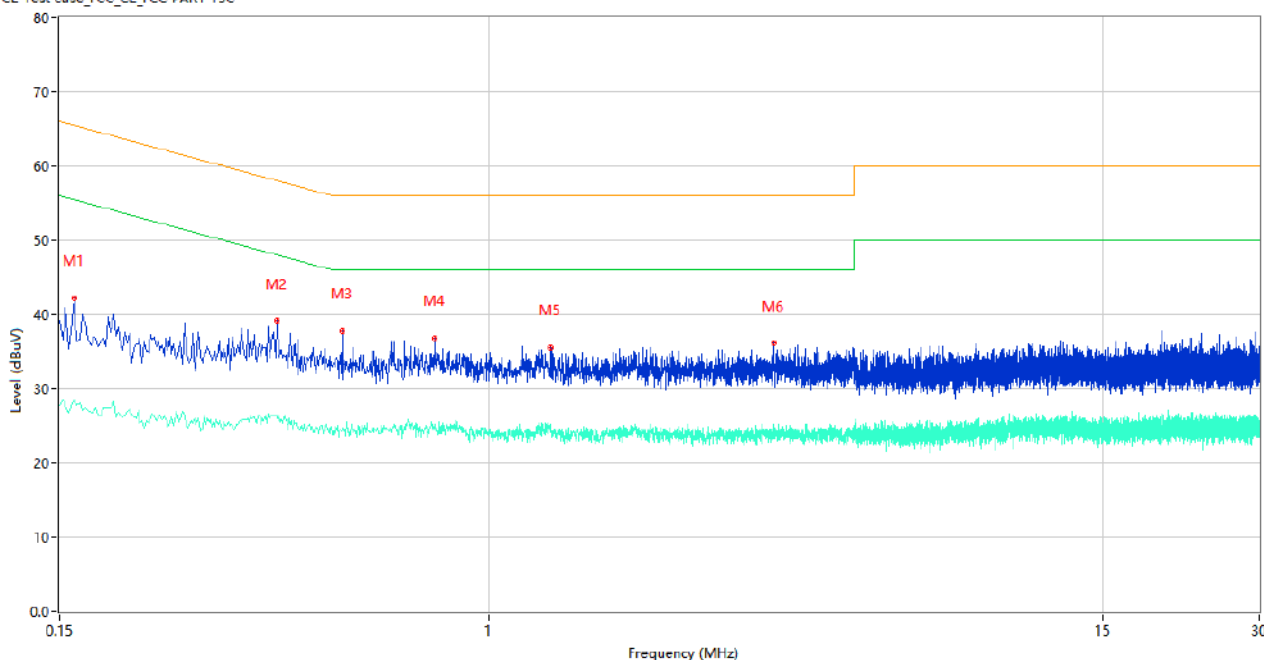
Note ¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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.

Test Data and Plots

PHASE L

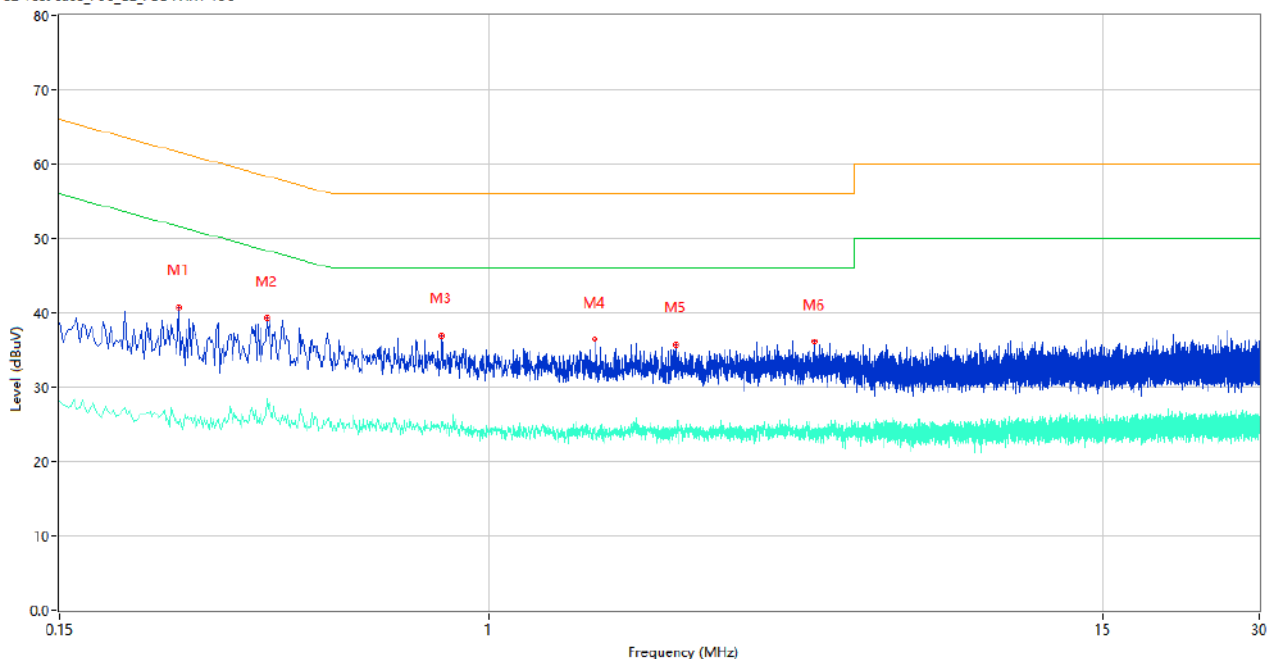
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBUV)	Factor (dB)	Limit (dBUV)	Margin (dB)	Detector	Line	Verdict
1	0.160	42.30	9.78	65.46	23.16	Peak	L	Pass
1**	0.160	28.51	9.78	55.46	26.95	AV	L	Pass
2	0.392	39.16	10.59	58.02	18.86	Peak	L	Pass
2**	0.392	26.32	10.59	48.02	21.70	AV	L	Pass
3	0.522	37.82	10.00	56.00	18.18	Peak	L	Pass
3**	0.522	24.44	10.00	46.00	21.56	AV	L	Pass
4	0.788	36.86	10.45	56.00	19.14	Peak	L	Pass
4**	0.788	24.80	10.45	46.00	21.20	AV	L	Pass
5	1.312	35.57	10.38	56.00	20.43	Peak	L	Pass
5**	1.312	25.18	10.38	46.00	20.82	AV	L	Pass
6	3.514	36.13	10.12	56.00	19.87	Peak	L	Pass
6**	3.514	25.18	10.12	46.00	20.82	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.254	40.85	9.77	61.63	20.78	Peak	N	Pass
1**	0.254	25.05	9.77	51.63	26.58	AV	N	Pass
2	0.374	39.35	10.66	58.41	19.06	Peak	N	Pass
2**	0.374	28.61	10.66	48.41	19.80	AV	N	Pass
3	0.812	37.04	10.55	56.00	18.96	Peak	N	Pass
3**	0.812	25.14	10.55	46.00	20.86	AV	N	Pass
4	1.592	36.49	9.90	56.00	19.51	Peak	N	Pass
4**	1.592	23.99	9.90	46.00	22.01	AV	N	Pass
5	2.282	35.77	10.26	56.00	20.23	Peak	N	Pass
5**	2.282	23.96	10.26	46.00	22.04	AV	N	Pass
6	4.214	36.18	10.03	56.00	19.82	Peak	N	Pass
6**	4.214	23.76	10.03	46.00	22.24	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.

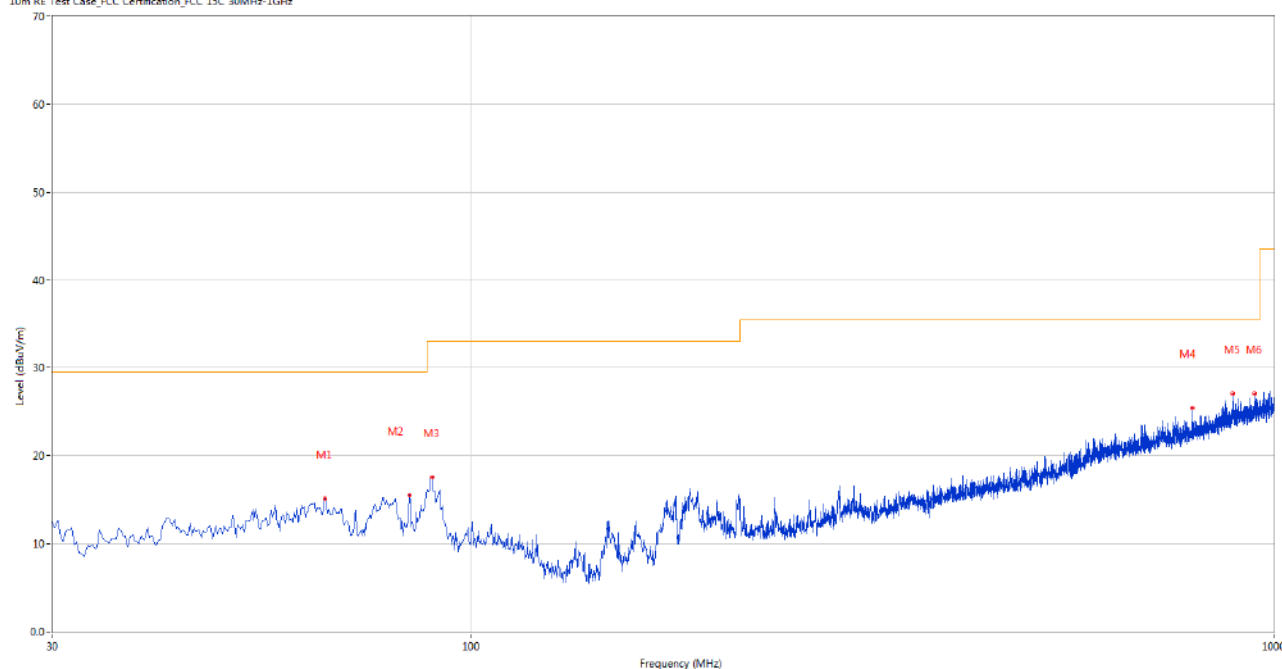
Note ⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Note ⁵: Both model of the charger were tested in this report. The C-P35 (Huntkey) is the main test model, and the C-P35 (Acbel) only retest the below 1GHz in this report.

Test Data and Plots

30 MHz to 1 GHz, ANT H

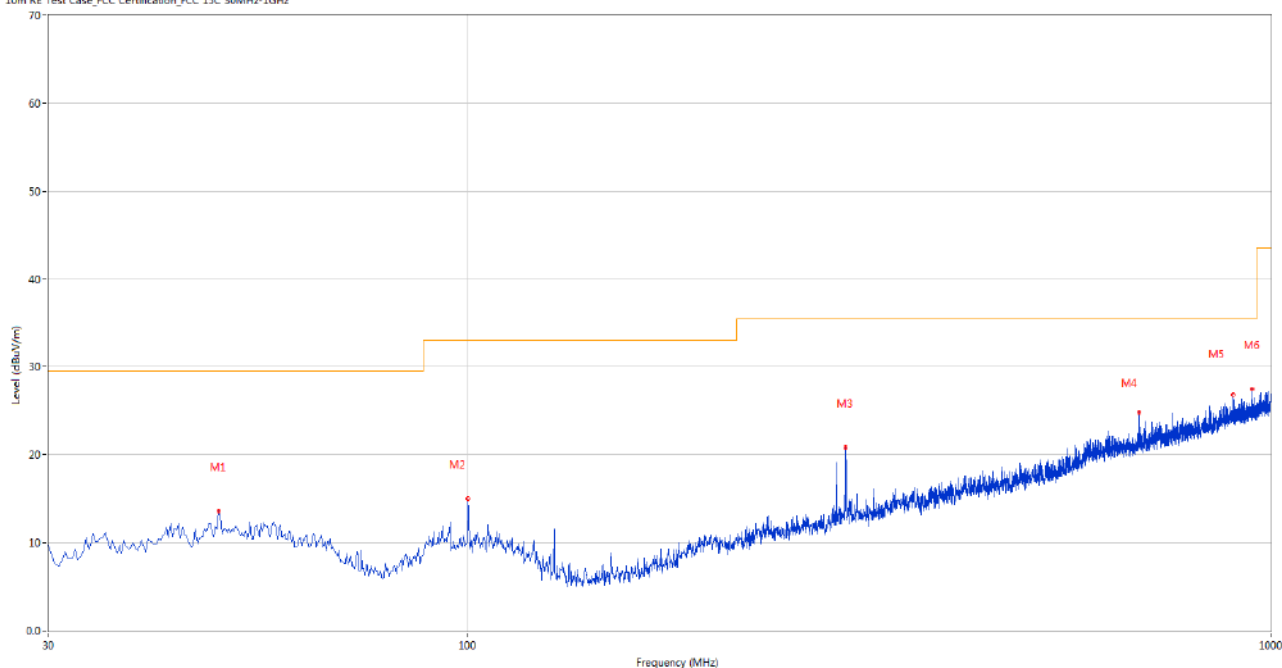
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	65.639	15.09	-28.40	29.5	14.41	Peak	127.00	100	Vertical	Pass
2	83.579	15.52	-31.22	29.5	13.98	Peak	137.00	200	Vertical	Pass
3	89.155	17.62	-29.84	33.0	15.38	Peak	99.00	200	Vertical	Pass
4	791.745	25.44	-14.53	35.5	10.06	Peak	140.00	100	Vertical	Pass
5	889.448	27.13	-12.56	35.5	8.37	Peak	47.00	100	Vertical	Pass
6	946.906	27.05	-12.01	35.5	8.45	Peak	38.00	100	Vertical	Pass

30 MHz to 1 GHz, ANT V

10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	48.910	13.57	-26.33	29.5	15.93	Peak	329.00	100	Horizontal	Pass
2	99.823	15.02	-27.98	33.0	17.98	Peak	326.00	100	Horizontal	Pass
3	295.471	20.88	-25.17	35.5	14.62	Peak	0.00	100	Horizontal	Pass
4	685.071	24.80	-16.37	35.5	10.70	Peak	50.00	100	Horizontal	Pass
5	896.721	26.90	-12.47	35.5	8.60	Peak	4.00	200	Horizontal	Pass
6	947.391	27.53	-12.02	35.5	7.97	Peak	356.00	200	Horizontal	Pass

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

Note 2: The spurious from 18GHz to 25GHz is noise only, do not show on the report.

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1424.700	38.73	-17.45	74.0	35.27	Peak	49.00	200	Horizontal	Pass
1**	1424.700	29.90	-17.45	54.0	24.10	AV	49.00	200	Horizontal	Pass
2	2413.200	102.68	-12.52	74.0	-28.68	Peak	212.00	200	Horizontal	N/A
2**	2413.200	99.80	-12.52	54.0	-45.80	AV	212.00	200	Horizontal	N/A
3	4824.200	53.31	-3.42	74.0	20.69	Peak	84.00	150	Horizontal	Pass
3**	4824.200	50.24	-3.42	54.0	3.76	AV	84.00	150	Horizontal	Pass
4	6608.200	54.96	1.56	74.0	19.04	Peak	122.00	400	Horizontal	Pass
4**	6608.200	46.88	1.56	54.0	7.12	AV	122.00	400	Horizontal	Pass
5	12701.987	53.59	0.86	74.0	20.41	Peak	349.00	200	Horizontal	Pass
5**	12701.987	44.02	0.86	54.0	9.98	AV	349.00	200	Horizontal	Pass
6	17415.412	57.09	3.65	74.0	16.91	Peak	132.00	300	Horizontal	Pass
6**	17415.412	46.95	3.65	54.0	7.05	AV	132.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1498.800	42.80	-17.55	74.0	31.20	Peak	99.00	200	Vertical	Pass
1**	1498.800	32.00	-17.55	54.0	22.00	AV	99.00	200	Vertical	Pass
2	2412.000	89.25	-12.52	74.0	-15.25	Peak	120.00	200	Vertical	N/A
2**	2412.000	85.54	-12.52	54.0	-31.54	AV	120.00	200	Vertical	N/A
3	5120.000	52.57	-2.02	74.0	21.43	Peak	82.00	150	Vertical	Pass
3**	5120.000	43.95	-2.02	54.0	10.05	AV	82.00	150	Vertical	Pass
4	6610.600	55.32	1.49	74.0	18.68	Peak	278.00	300	Vertical	Pass
4**	6610.600	45.90	1.49	54.0	8.10	AV	278.00	300	Vertical	Pass
5	12858.675	53.44	1.45	74.0	20.56	Peak	36.00	400	Vertical	Pass
5**	12858.675	43.74	1.45	54.0	10.26	AV	36.00	400	Vertical	Pass
6	17402.550	56.36	3.25	74.0	17.64	Peak	0.00	100	Vertical	Pass
6**	17402.550	47.17	3.25	54.0	6.83	AV	0.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Channel 2

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1000.400	39.84	-18.20	74.0	34.16	Peak	163.00	400	Horizontal	Pass
1**	1000.400	30.53	-18.20	54.0	23.47	AV	163.00	400	Horizontal	Pass
2	2417.000	103.00	-12.32	74.0	-29.00	Peak	200.00	200	Horizontal	N/A
2**	2417.000	99.13	-12.32	54.0	-45.13	AV	200.00	200	Horizontal	N/A
3	4834.000	53.95	-3.52	74.0	20.05	Peak	233.00	150	Horizontal	Pass
3**	4834.000	50.75	-3.52	54.0	3.25	AV	233.00	150	Horizontal	Pass
4	6406.600	55.12	0.31	74.0	18.88	Peak	75.00	400	Horizontal	Pass
4**	6406.600	46.16	0.31	54.0	7.84	AV	75.00	400	Horizontal	Pass
5	12950.813	53.93	0.91	74.0	20.07	Peak	360.00	300	Horizontal	Pass
5**	12950.813	42.91	0.91	54.0	11.09	AV	360.00	300	Horizontal	Pass
6	17406.224	57.13	3.35	74.0	16.87	Peak	229.00	300	Horizontal	Pass
6**	17406.224	47.09	3.35	54.0	6.91	AV	229.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Channel 2

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.500	41.63	-17.69	74.0	32.37	Peak	0.00	300	Vertical	Pass
1**	1328.500	29.71	-17.69	54.0	24.29	AV	0.00	300	Vertical	Pass
2	2417.000	91.15	-12.32	74.0	-17.15	Peak	44.00	150	Vertical	N/A
2**	2417.000	86.14	-12.32	54.0	-32.14	AV	44.00	150	Vertical	N/A
3	4453.600	49.24	-3.57	74.0	24.76	Peak	203.00	150	Vertical	Pass
3**	4453.600	40.58	-3.57	54.0	13.42	AV	203.00	150	Vertical	Pass
4	6270.000	55.31	0.44	74.0	18.69	Peak	115.00	200	Vertical	Pass
4**	6270.000	45.47	0.44	54.0	8.53	AV	115.00	200	Vertical	Pass
5	12815.625	53.71	0.85	74.0	20.29	Peak	153.00	100	Vertical	Pass
5**	12815.625	43.99	0.85	54.0	10.01	AV	153.00	100	Vertical	Pass
6	17413.575	56.29	3.58	74.0	17.71	Peak	313.00	200	Vertical	Pass
6**	17413.575	47.41	3.58	54.0	6.59	AV	313.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Channel 3

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1000.200	39.99	-18.20	74.0	34.01	Peak	120.00	400	Horizontal	Pass
1**	1000.200	31.73	-18.20	54.0	22.27	AV	120.00	400	Horizontal	Pass
2	2423.300	103.22	-12.57	74.0	-29.22	Peak	205.00	200	Horizontal	N/A
2**	2423.300	100.19	-12.57	54.0	-46.19	AV	205.00	200	Horizontal	N/A
3	4844.200	53.47	-3.43	74.0	20.53	Peak	235.00	150	Horizontal	Pass
3**	4844.200	50.80	-3.43	54.0	3.20	AV	235.00	150	Horizontal	Pass
4	6604.000	55.68	1.01	74.0	18.32	Peak	146.00	200	Horizontal	Pass
4**	6604.000	46.05	1.01	54.0	7.95	AV	146.00	200	Horizontal	Pass
5	12738.500	53.76	1.30	74.0	20.24	Peak	0.00	300	Horizontal	Pass
5**	12738.500	44.44	1.30	54.0	9.56	AV	0.00	300	Horizontal	Pass
6	13330.650	56.09	0.94	74.0	17.91	Peak	360.00	400	Horizontal	Pass
6**	13330.650	45.98	0.94	54.0	8.02	AV	360.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Channel 3

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1165.500	41.82	-18.03	74.0	32.18	Peak	42.00	200	Vertical	Pass
1**	1165.500	28.28	-18.03	54.0	25.72	AV	42.00	200	Vertical	Pass
2	2420.800	91.30	-12.41	74.0	-17.30	Peak	42.00	150	Vertical	N/A
2**	2420.800	88.36	-12.41	54.0	-34.36	AV	42.00	150	Vertical	N/A
3	4843.800	51.09	-3.46	74.0	22.91	Peak	206.00	150	Vertical	Pass
3**	4843.800	43.85	-3.46	54.0	10.15	AV	206.00	150	Vertical	Pass
4	6608.600	54.87	1.59	74.0	19.13	Peak	132.00	100	Vertical	Pass
4**	6608.600	46.30	1.59	54.0	7.70	AV	132.00	100	Vertical	Pass
5	12835.575	53.63	1.27	74.0	20.37	Peak	342.00	300	Vertical	Pass
5**	12835.575	44.49	1.27	54.0	9.51	AV	342.00	300	Vertical	Pass
6	17337.448	56.15	1.47	74.0	17.85	Peak	42.00	300	Vertical	Pass
6**	17337.448	45.66	1.47	54.0	8.34	AV	42.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Channel 4

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1374.000	51.03	-17.35	74.0	22.97	Peak	77.00	200	Horizontal	Pass
1**	1374.000	35.11	-17.35	54.0	18.89	AV	77.00	200	Horizontal	Pass
2	2428.400	103.75	-12.74	74.0	-29.75	Peak	196.00	100	Horizontal	N/A
2**	2428.400	100.60	-12.74	54.0	-46.60	AV	196.00	100	Horizontal	N/A
3	4854.400	52.48	-3.47	74.0	21.52	Peak	240.00	150	Horizontal	Pass
3**	4854.400	50.10	-3.47	54.0	3.90	AV	240.00	150	Horizontal	Pass
4	6267.000	54.50	0.05	74.0	19.50	Peak	0.00	400	Horizontal	Pass
4**	6267.000	45.14	0.05	54.0	8.86	AV	0.00	400	Horizontal	Pass
5	12823.238	53.75	1.00	74.0	20.25	Peak	182.00	200	Horizontal	Pass
5**	12823.238	44.30	1.00	54.0	9.70	AV	182.00	200	Horizontal	Pass
6	13412.550	55.93	0.46	74.0	18.07	Peak	360.00	300	Horizontal	Pass
6**	13412.550	46.62	0.46	54.0	7.38	AV	360.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Channel 4

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1000.300	42.57	-18.20	74.0	31.43	Peak	278.00	300	Vertical	Pass
1**	1000.300	31.08	-18.20	54.0	22.92	AV	278.00	300	Vertical	Pass
2	2428.300	91.98	-12.74	74.0	-17.98	Peak	47.00	100	Vertical	N/A
2**	2428.300	89.17	-12.74	54.0	-35.17	AV	47.00	100	Vertical	N/A
3	4880.800	51.22	-3.35	74.0	22.78	Peak	43.00	150	Vertical	Pass
3**	4880.800	41.47	-3.35	54.0	12.53	AV	43.00	150	Vertical	Pass
4	6613.200	54.70	1.32	74.0	19.30	Peak	132.00	200	Vertical	Pass
4**	6613.200	45.76	1.32	54.0	8.24	AV	132.00	200	Vertical	Pass
5	12808.537	53.43	0.88	74.0	20.57	Peak	293.00	400	Vertical	Pass
5**	12808.537	44.97	0.88	54.0	9.03	AV	293.00	400	Vertical	Pass
6	17426.962	56.21	3.55	74.0	17.79	Peak	360.00	100	Vertical	Pass
6**	17426.962	47.33	3.55	54.0	6.67	AV	360.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Channel 5

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1000.000	39.93	-18.20	74.0	34.07	Peak	126.00	100	Horizontal	Pass
1**	1000.000	29.46	-18.20	54.0	24.54	AV	126.00	100	Horizontal	Pass
2	2433.300	103.88	-12.68	74.0	-29.88	Peak	198.00	150	Horizontal	N/A
2**	2433.300	100.74	-12.68	54.0	-46.74	AV	198.00	150	Horizontal	N/A
3	4864.200	53.71	-3.25	74.0	20.29	Peak	284.00	150	Horizontal	Pass
3**	4864.200	50.30	-3.25	54.0	3.70	AV	284.00	150	Horizontal	Pass
4	6612.600	55.12	1.38	74.0	18.88	Peak	83.00	100	Horizontal	Pass
4**	6612.600	46.20	1.38	54.0	7.80	AV	83.00	100	Horizontal	Pass
5	12313.862	53.33	1.40	74.0	20.67	Peak	343.00	200	Horizontal	Pass
5**	12313.862	43.93	1.40	54.0	10.07	AV	343.00	200	Horizontal	Pass
6	16280.100	56.07	1.01	74.0	17.93	Peak	157.00	400	Horizontal	Pass
6**	16280.100	46.05	1.01	54.0	7.95	AV	157.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Channel 5

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1176.100	44.47	-17.98	74.0	29.53	Peak	0.00	100	Vertical	Pass
1**	1176.100	28.88	-17.98	54.0	25.12	AV	0.00	100	Vertical	Pass
2	2433.200	92.95	-12.68	74.0	-18.95	Peak	48.00	200	Vertical	N/A
2**	2433.200	90.20	-12.68	54.0	-36.20	AV	48.00	200	Vertical	N/A
3	5316.400	54.19	-2.56	74.0	19.81	Peak	101.00	150	Vertical	Pass
3**	5316.400	42.45	-2.56	54.0	11.55	AV	101.00	150	Vertical	Pass
4	6742.800	54.28	0.86	74.0	19.72	Peak	88.00	400	Vertical	Pass
4**	6742.800	44.97	0.86	54.0	9.03	AV	88.00	400	Vertical	Pass
5	12988.088	53.68	1.09	74.0	20.32	Peak	42.00	100	Vertical	Pass
5**	12988.088	43.24	1.09	54.0	10.76	AV	42.00	100	Vertical	Pass
6	16144.912	56.20	1.04	74.0	17.80	Peak	360.00	300	Vertical	Pass
6**	16144.912	46.63	1.04	54.0	7.37	AV	360.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1000.500	39.27	-18.19	74.0	34.73	Peak	174.00	200	Horizontal	Pass
1**	1000.500	29.16	-18.19	54.0	24.84	AV	174.00	200	Horizontal	Pass
2	2438.400	104.29	-12.44	74.0	-30.29	Peak	208.00	200	Horizontal	N/A
2**	2438.400	101.22	-12.44	54.0	-47.22	AV	208.00	200	Horizontal	N/A
3	4874.000	53.73	-3.29	74.0	20.27	Peak	228.00	150	Horizontal	Pass
3**	4874.000	50.05	-3.29	54.0	3.95	AV	228.00	150	Horizontal	Pass
4	6604.000	55.94	1.01	74.0	18.06	Peak	204.00	400	Horizontal	Pass
4**	6604.000	46.35	1.01	54.0	7.65	AV	204.00	400	Horizontal	Pass
5	12283.963	53.13	1.78	74.0	20.87	Peak	323.00	400	Horizontal	Pass
5**	12283.963	44.28	1.78	54.0	9.72	AV	323.00	400	Horizontal	Pass
6	17406.489	56.83	3.36	74.0	17.17	Peak	5.00	400	Horizontal	Pass
6**	17406.489	47.50	3.36	54.0	6.50	AV	5.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1000.100	42.02	-18.20	74.0	31.98	Peak	299.00	200	Vertical	Pass
1**	1000.100	31.52	-18.20	54.0	22.48	AV	299.00	200	Vertical	Pass
2	2438.400	91.96	-12.44	74.0	-17.96	Peak	122.00	100	Vertical	N/A
2**	2438.400	89.13	-12.44	54.0	-35.13	AV	122.00	100	Vertical	N/A
3	4981.200	51.35	-2.81	74.0	22.65	Peak	25.00	100	Vertical	Pass
3**	4981.200	41.87	-2.81	54.0	12.13	AV	25.00	100	Vertical	Pass
4	6608.200	55.82	1.56	74.0	18.18	Peak	85.00	100	Vertical	Pass
4**	6608.200	46.00	1.56	54.0	8.00	AV	85.00	100	Vertical	Pass
5	12991.762	54.27	1.15	74.0	19.73	Peak	82.00	100	Vertical	Pass
5**	12991.762	45.07	1.15	54.0	8.93	AV	82.00	100	Vertical	Pass
6	17373.411	56.32	2.49	74.0	17.68	Peak	255.00	100	Vertical	Pass
6**	17373.411	45.74	2.49	54.0	8.26	AV	255.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Channel 7

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1166.300	38.69	-18.06	74.0	35.31	Peak	360.00	200	Horizontal	Pass
1**	1166.300	28.00	-18.06	54.0	26.00	AV	360.00	200	Horizontal	Pass
2	2440.800	104.12	-12.43	74.0	-30.12	Peak	195.00	150	Horizontal	N/A
2**	2440.800	101.01	-12.43	54.0	-47.01	AV	195.00	150	Horizontal	N/A
3	4884.200	53.18	-3.49	74.0	20.82	Peak	277.00	150	Horizontal	Pass
3**	4884.200	50.71	-3.49	54.0	3.29	AV	277.00	150	Horizontal	Pass
4	6740.800	55.31	0.76	74.0	18.69	Peak	360.00	100	Horizontal	Pass
4**	6740.800	45.92	0.76	54.0	8.08	AV	360.00	100	Horizontal	Pass
5	12822.450	53.50	0.98	74.0	20.50	Peak	254.00	300	Horizontal	Pass
5**	12822.450	44.36	0.98	54.0	9.64	AV	254.00	300	Horizontal	Pass
6	15237.450	56.02	0.99	74.0	17.98	Peak	360.00	400	Horizontal	Pass
6**	15237.450	46.63	0.99	54.0	7.37	AV	360.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Channel 7

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1162.700	41.14	-17.93	74.0	32.86	Peak	36.00	300	Vertical	Pass
1**	1162.700	29.90	-17.93	54.0	24.10	AV	36.00	300	Vertical	Pass
2	2440.900	93.39	-12.43	74.0	-19.39	Peak	48.00	150	Vertical	N/A
2**	2440.900	90.54	-12.43	54.0	-36.54	AV	48.00	150	Vertical	N/A
3	4778.600	50.64	-2.97	74.0	23.36	Peak	312.00	150	Vertical	Pass
3**	4778.600	41.43	-2.97	54.0	12.57	AV	312.00	150	Vertical	Pass
4	6603.800	54.61	0.98	74.0	19.39	Peak	337.00	100	Vertical	Pass
4**	6603.800	46.38	0.98	54.0	7.62	AV	337.00	100	Vertical	Pass
5	12818.250	53.87	0.89	74.0	20.13	Peak	304.00	300	Vertical	Pass
5**	12818.250	44.97	0.89	54.0	9.03	AV	304.00	300	Vertical	Pass
6	13310.175	56.52	0.86	74.0	17.48	Peak	253.00	300	Vertical	Pass
6**	13310.175	46.56	0.86	54.0	7.44	AV	253.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Channel 8

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1000.000	39.43	-18.20	74.0	34.57	Peak	163.00	400	Horizontal	Pass
1**	1000.000	27.74	-18.20	54.0	26.26	AV	163.00	400	Horizontal	Pass
2	2445.900	103.93	-12.63	74.0	-29.93	Peak	202.00	200	Horizontal	N/A
2**	2445.900	100.87	-12.63	54.0	-46.87	AV	202.00	200	Horizontal	N/A
3	4894.000	53.54	-2.99	74.0	20.46	Peak	229.00	150	Horizontal	Pass
3**	4894.000	50.24	-2.99	54.0	3.76	AV	229.00	150	Horizontal	Pass
4	6606.400	55.69	1.42	74.0	18.31	Peak	313.00	100	Horizontal	Pass
4**	6606.400	46.47	1.42	54.0	7.53	AV	313.00	100	Horizontal	Pass
5	12802.763	53.49	1.00	74.0	20.51	Peak	64.00	400	Horizontal	Pass
5**	12802.763	44.73	1.00	54.0	9.27	AV	64.00	400	Horizontal	Pass
6	17428.011	56.65	3.52	74.0	17.35	Peak	108.00	100	Horizontal	Pass
6**	17428.011	46.42	3.52	54.0	7.58	AV	108.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Channel 8

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.900	43.33	-17.96	74.0	30.67	Peak	87.00	200	Vertical	Pass
1**	1161.900	31.02	-17.96	54.0	22.98	AV	87.00	200	Vertical	Pass
2	2445.700	92.87	-12.62	74.0	-18.87	Peak	45.00	150	Vertical	N/A
2**	2445.700	89.94	-12.62	54.0	-35.94	AV	45.00	150	Vertical	N/A
3	5136.000	51.31	-2.14	74.0	22.69	Peak	58.00	150	Vertical	Pass
3**	5136.000	42.32	-2.14	54.0	11.68	AV	58.00	150	Vertical	Pass
4	6747.000	54.80	0.80	74.0	19.20	Peak	155.00	200	Vertical	Pass
4**	6747.000	45.97	0.80	54.0	8.03	AV	155.00	200	Vertical	Pass
5	12897.526	53.36	1.52	74.0	20.64	Peak	137.00	100	Vertical	Pass
5**	12897.526	44.02	1.52	54.0	9.98	AV	137.00	100	Vertical	Pass
6	17418.824	55.75	3.73	74.0	18.25	Peak	298.00	300	Vertical	Pass
6**	17418.824	47.01	3.73	54.0	6.99	AV	298.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Channel 9

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1524.200	38.97	-17.33	74.0	35.03	Peak	94.00	300	Horizontal	Pass
1**	1524.200	29.75	-17.33	54.0	24.25	AV	94.00	300	Horizontal	Pass
2	2450.800	104.22	-12.36	74.0	-30.22	Peak	200.00	150	Horizontal	N/A
2**	2450.800	101.19	-12.36	54.0	-47.19	AV	200.00	150	Horizontal	N/A
3	4904.000	54.09	-2.36	74.0	19.91	Peak	243.00	150	Horizontal	Pass
3**	4904.000	50.11	-2.36	54.0	3.89	AV	243.00	150	Horizontal	Pass
4	6609.600	54.13	1.55	74.0	19.87	Peak	181.00	200	Horizontal	Pass
4**	6609.600	46.72	1.55	54.0	7.28	AV	181.00	200	Horizontal	Pass
5	12395.225	53.26	1.60	74.0	20.74	Peak	285.00	200	Horizontal	Pass
5**	12395.225	43.79	1.60	54.0	10.21	AV	285.00	200	Horizontal	Pass
6	17411.213	56.53	3.49	74.0	17.47	Peak	360.00	200	Horizontal	Pass
6**	17411.213	47.21	3.49	54.0	6.79	AV	360.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Channel 9

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.200	41.29	-17.68	74.0	32.71	Peak	210.00	200	Vertical	Pass
1**	1328.200	30.66	-17.68	54.0	23.34	AV	210.00	200	Vertical	Pass
2	2450.700	91.83	-12.35	74.0	-17.83	Peak	40.00	100	Vertical	N/A
2**	2450.700	88.83	-12.35	54.0	-34.83	AV	40.00	100	Vertical	N/A
3	4903.400	51.49	-2.40	74.0	22.51	Peak	181.00	100	Vertical	Pass
3**	4903.400	43.58	-2.40	54.0	10.42	AV	181.00	100	Vertical	Pass
4	6609.000	55.15	1.59	74.0	18.85	Peak	68.00	100	Vertical	Pass
4**	6609.000	46.13	1.59	54.0	7.87	AV	68.00	100	Vertical	Pass
5	12761.813	53.86	0.99	74.0	20.14	Peak	69.00	400	Vertical	Pass
5**	12761.813	43.54	0.99	54.0	10.46	AV	69.00	400	Vertical	Pass
6	16106.325	56.14	0.92	74.0	17.86	Peak	342.00	400	Vertical	Pass
6**	16106.325	46.40	0.92	54.0	7.60	AV	342.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Channel 10

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.100	39.69	-17.52	74.0	34.31	Peak	19.00	100	Horizontal	Pass
1**	1330.100	28.94	-17.52	54.0	25.06	AV	19.00	100	Horizontal	Pass
2	2455.700	103.74	-12.53	74.0	-29.74	Peak	203.00	100	Horizontal	N/A
2**	2455.700	100.69	-12.53	54.0	-46.69	AV	203.00	100	Horizontal	N/A
3	4914.000	53.62	-2.71	74.0	20.38	Peak	261.00	150	Horizontal	Pass
3**	4914.000	50.55	-2.71	54.0	3.45	AV	261.00	150	Horizontal	Pass
4	6608.000	54.36	1.55	74.0	19.64	Peak	298.00	300	Horizontal	Pass
4**	6608.000	46.62	1.55	54.0	7.38	AV	298.00	300	Horizontal	Pass
5	12977.588	53.48	0.95	74.0	20.52	Peak	20.00	400	Horizontal	Pass
5**	12977.588	43.63	0.95	54.0	10.37	AV	20.00	400	Horizontal	Pass
6	13412.813	56.43	0.45	74.0	17.57	Peak	64.00	400	Horizontal	Pass
6**	13412.813	46.10	0.45	54.0	7.90	AV	64.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Channel 10

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1166.400	49.41	-18.06	74.0	24.59	Peak	0.00	300	Vertical	Pass
1**	1166.400	33.14	-18.06	54.0	20.86	AV	0.00	300	Vertical	Pass
2	2455.900	90.77	-12.51	74.0	-16.77	Peak	42.00	200	Vertical	N/A
2**	2455.900	87.84	-12.51	54.0	-33.84	AV	42.00	200	Vertical	N/A
3	4838.600	52.00	-3.42	74.0	22.00	Peak	295.00	100	Vertical	Pass
3**	4838.600	41.91	-3.42	54.0	12.09	AV	295.00	100	Vertical	Pass
4	6607.200	54.53	1.50	74.0	19.47	Peak	244.00	300	Vertical	Pass
4**	6607.200	47.13	1.50	54.0	6.87	AV	244.00	300	Vertical	Pass
5	12832.950	54.10	1.21	74.0	19.90	Peak	88.00	400	Vertical	Pass
5**	12832.950	43.93	1.21	54.0	10.07	AV	88.00	400	Vertical	Pass
6	17422.238	56.22	3.70	74.0	17.78	Peak	44.00	100	Vertical	Pass
6**	17422.238	46.64	3.70	54.0	7.36	AV	44.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1000.100	41.01	-18.20	74.0	32.99	Peak	113.00	100	Horizontal	Pass
1**	1000.100	32.37	-18.20	54.0	21.63	AV	113.00	100	Horizontal	Pass
2	2460.600	103.64	-12.55	74.0	-29.64	Peak	215.00	150	Horizontal	N/A
2**	2460.600	100.54	-12.55	54.0	-46.54	AV	215.00	150	Horizontal	N/A
3	4924.200	53.76	-2.35	74.0	20.24	Peak	202.00	150	Horizontal	Pass
3**	4924.200	50.50	-2.35	54.0	3.50	AV	202.00	150	Horizontal	Pass
4	6631.200	55.03	0.84	74.0	18.97	Peak	350.00	400	Horizontal	Pass
4**	6631.200	45.01	0.84	54.0	8.99	AV	350.00	400	Horizontal	Pass
5	12837.937	53.32	1.30	74.0	20.68	Peak	219.00	300	Horizontal	Pass
5**	12837.937	43.83	1.30	54.0	10.17	AV	219.00	300	Horizontal	Pass
6	15503.625	56.03	1.25	74.0	17.97	Peak	310.00	300	Horizontal	Pass
6**	15503.625	46.60	1.25	54.0	7.40	AV	310.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.500	41.83	-17.50	74.0	32.17	Peak	30.00	400	Vertical	Pass
1**	1331.500	31.22	-17.50	54.0	22.78	AV	30.00	400	Vertical	Pass
2	2460.900	93.22	-12.54	74.0	-19.22	Peak	119.00	200	Vertical	N/A
2**	2460.900	90.28	-12.54	54.0	-36.28	AV	119.00	200	Vertical	N/A
3	4785.000	50.84	-2.70	74.0	23.16	Peak	0.00	150	Vertical	Pass
3**	4785.000	41.40	-2.70	54.0	12.60	AV	0.00	150	Vertical	Pass
4	6605.600	55.06	1.28	74.0	18.94	Peak	178.00	300	Vertical	Pass
4**	6605.600	46.28	1.28	54.0	7.72	AV	178.00	300	Vertical	Pass
5	12885.975	53.36	1.56	74.0	20.64	Peak	254.00	400	Vertical	Pass
5**	12885.975	44.51	1.56	54.0	9.49	AV	254.00	400	Vertical	Pass
6	15239.812	56.64	0.96	74.0	17.36	Peak	299.00	300	Vertical	Pass
6**	15239.812	47.10	0.96	54.0	6.90	AV	299.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1467.000	39.26	-17.53	74.0	34.74	Peak	17.00	200	Horizontal	Pass
1**	1467.000	29.25	-17.53	54.0	24.75	AV	17.00	200	Horizontal	Pass
2	2405.300	107.70	-12.31	74.0	-33.70	Peak	215.00	150	Horizontal	N/A
2**	2405.300	99.97	-12.31	54.0	-45.97	AV	215.00	150	Horizontal	N/A
3	4822.800	53.72	-3.35	74.0	20.28	Peak	104.00	150	Horizontal	Pass
3**	4822.800	48.11	-3.35	54.0	5.89	AV	104.00	150	Horizontal	Pass
4	6609.200	55.40	1.58	74.0	18.60	Peak	116.00	300	Horizontal	Pass
4**	6609.200	46.45	1.58	54.0	7.55	AV	116.00	300	Horizontal	Pass
5	12847.912	53.22	1.36	74.0	20.78	Peak	320.00	200	Horizontal	Pass
5**	12847.912	43.95	1.36	54.0	10.05	AV	320.00	200	Horizontal	Pass
6	17421.713	55.80	3.71	74.0	18.20	Peak	341.00	400	Horizontal	Pass
6**	17421.713	47.65	3.71	54.0	6.35	AV	341.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1163.900	41.10	-17.97	74.0	32.90	Peak	360.00	300	Vertical	Pass
1**	1163.900	30.13	-17.97	54.0	23.87	AV	360.00	300	Vertical	Pass
2	2413.200	96.36	-12.52	74.0	-22.36	Peak	119.00	150	Vertical	N/A
2**	2413.200	88.63	-12.52	54.0	-34.63	AV	119.00	150	Vertical	N/A
3	4820.000	51.05	-3.33	74.0	22.95	Peak	265.00	150	Vertical	Pass
3**	4820.000	41.51	-3.33	54.0	12.49	AV	265.00	150	Vertical	Pass
4	6605.800	55.19	1.32	74.0	18.81	Peak	62.00	300	Vertical	Pass
4**	6605.800	46.37	1.32	54.0	7.63	AV	62.00	300	Vertical	Pass
5	12811.425	53.39	0.85	74.0	20.61	Peak	206.00	300	Vertical	Pass
5**	12811.425	44.36	0.85	54.0	9.64	AV	206.00	300	Vertical	Pass
6	17420.136	56.44	3.75	74.0	17.56	Peak	5.00	100	Vertical	Pass
6**	17420.136	47.68	3.75	54.0	6.32	AV	5.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1316.300	39.23	-17.37	74.0	34.77	Peak	126.00	300	Horizontal	Pass
1**	1316.300	28.95	-17.37	54.0	25.05	AV	126.00	300	Horizontal	Pass
2	2439.800	108.11	-12.40	74.0	-34.11	Peak	204.00	150	Horizontal	N/A
2**	2439.800	100.64	-12.40	54.0	-46.64	AV	204.00	150	Horizontal	N/A
3	4868.400	52.14	-3.21	74.0	21.86	Peak	213.00	150	Horizontal	Pass
3**	4868.400	47.80	-3.21	54.0	6.20	AV	213.00	150	Horizontal	Pass
4	6605.600	55.59	1.28	74.0	18.41	Peak	26.00	100	Horizontal	Pass
4**	6605.600	45.73	1.28	54.0	8.27	AV	26.00	100	Horizontal	Pass
5	12863.138	53.28	1.44	74.0	20.72	Peak	0.00	300	Horizontal	Pass
5**	12863.138	44.00	1.44	54.0	10.00	AV	0.00	300	Horizontal	Pass
6	17421.713	56.43	3.71	74.0	17.57	Peak	65.00	200	Horizontal	Pass
6**	17421.713	47.08	3.71	54.0	6.92	AV	65.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1163.700	40.93	-17.96	74.0	33.07	Peak	84.00	100	Vertical	Pass
1**	1163.700	31.97	-17.96	54.0	22.03	AV	84.00	100	Vertical	Pass
2	2442.400	98.37	-12.49	74.0	-24.37	Peak	121.00	200	Vertical	N/A
2**	2442.400	89.42	-12.49	54.0	-35.42	AV	121.00	200	Vertical	N/A
3	4989.400	51.90	-2.70	74.0	22.10	Peak	119.00	200	Vertical	Pass
3**	4989.400	42.29	-2.70	54.0	11.71	AV	119.00	200	Vertical	Pass
4	6609.800	55.22	1.54	74.0	18.78	Peak	53.00	400	Vertical	Pass
4**	6609.800	46.38	1.54	54.0	7.62	AV	53.00	400	Vertical	Pass
5	12997.537	53.65	1.31	74.0	20.35	Peak	98.00	100	Vertical	Pass
5**	12997.537	44.08	1.31	54.0	9.92	AV	98.00	100	Vertical	Pass
6	16040.963	56.01	0.79	74.0	17.99	Peak	261.00	300	Vertical	Pass
6**	16040.963	46.11	0.79	54.0	7.89	AV	261.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1346.200	39.45	-17.39	74.0	34.55	Peak	64.00	100	Horizontal	Pass
1**	1346.200	29.55	-17.39	54.0	24.45	AV	64.00	100	Horizontal	Pass
2	2463.100	107.59	-12.50	74.0	-33.59	Peak	200.00	100	Horizontal	N/A
2**	2463.100	99.53	-12.50	54.0	-45.53	AV	200.00	100	Horizontal	N/A
3	4925.400	49.96	-2.37	74.0	24.04	Peak	262.00	150	Horizontal	Pass
3**	4925.400	47.16	-2.37	54.0	6.84	AV	262.00	150	Horizontal	Pass
4	6270.400	54.47	0.48	74.0	19.53	Peak	351.00	400	Horizontal	Pass
4**	6270.400	45.15	0.48	54.0	8.85	AV	351.00	400	Horizontal	Pass
5	12287.412	53.22	1.72	74.0	20.78	Peak	45.00	100	Horizontal	Pass
5**	12287.412	43.44	1.72	54.0	10.56	AV	45.00	100	Horizontal	Pass
6	17394.412	56.16	2.99	74.0	17.84	Peak	51.00	300	Horizontal	Pass
6**	17394.412	46.66	2.99	54.0	7.34	AV	51.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.200	41.24	-17.51	74.0	32.76	Peak	109.00	300	Vertical	Pass
1**	1330.200	29.49	-17.51	54.0	24.51	AV	109.00	300	Vertical	Pass
2	2460.700	97.97	-12.55	74.0	-23.97	Peak	116.00	200	Vertical	N/A
2**	2460.700	90.08	-12.55	54.0	-36.08	AV	116.00	200	Vertical	N/A
3	4911.600	50.90	-2.61	74.0	23.10	Peak	0.00	150	Vertical	Pass
3**	4911.600	42.33	-2.61	54.0	11.67	AV	0.00	150	Vertical	Pass
4	6611.000	54.44	1.47	74.0	19.56	Peak	264.00	100	Vertical	Pass
4**	6611.000	46.83	1.47	54.0	7.17	AV	264.00	100	Vertical	Pass
5	12921.675	53.85	1.20	74.0	20.15	Peak	185.00	400	Vertical	Pass
5**	12921.675	43.94	1.20	54.0	10.06	AV	185.00	400	Vertical	Pass
6	17418.562	56.77	3.72	74.0	17.23	Peak	185.00	200	Vertical	Pass
6**	17418.562	47.05	3.72	54.0	6.95	AV	185.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.200	39.01	-17.99	74.0	34.99	Peak	360.00	300	Horizontal	Pass
1**	1161.200	27.76	-17.99	54.0	26.24	AV	360.00	300	Horizontal	Pass
2	2417.000	107.74	-12.32	74.0	-33.74	Peak	214.00	150	Horizontal	N/A
2**	2417.000	100.01	-12.32	54.0	-46.01	AV	214.00	150	Horizontal	N/A
3	4824.800	53.17	-3.45	74.0	20.83	Peak	219.00	150	Horizontal	Pass
3**	4824.800	48.27	-3.45	54.0	5.73	AV	219.00	150	Horizontal	Pass
4	6989.000	54.81	1.15	74.0	19.19	Peak	21.00	200	Horizontal	Pass
4**	6989.000	44.74	1.15	54.0	9.26	AV	21.00	200	Horizontal	Pass
5	12793.575	53.49	1.16	74.0	20.51	Peak	212.00	100	Horizontal	Pass
5**	12793.575	43.81	1.16	54.0	10.19	AV	212.00	100	Horizontal	Pass
6	17411.738	56.23	3.51	74.0	17.77	Peak	41.00	400	Horizontal	Pass
6**	17411.738	47.71	3.51	54.0	6.29	AV	41.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.900	41.34	-17.51	74.0	32.66	Peak	116.00	400	Vertical	Pass
1**	1331.900	35.29	-17.51	54.0	18.71	AV	116.00	400	Vertical	Pass
2	2410.000	95.03	-12.65	74.0	-21.03	Peak	122.00	200	Vertical	N/A
2**	2410.000	86.92	-12.65	54.0	-32.92	AV	122.00	200	Vertical	N/A
3	4895.200	51.17	-2.97	74.0	22.83	Peak	93.00	150	Vertical	Pass
3**	4895.200	42.19	-2.97	54.0	11.81	AV	93.00	150	Vertical	Pass
4	6606.800	54.99	1.47	74.0	19.01	Peak	45.00	200	Vertical	Pass
4**	6606.800	46.30	1.47	54.0	7.70	AV	45.00	200	Vertical	Pass
5	12227.037	53.37	1.31	74.0	20.63	Peak	0.00	200	Vertical	Pass
5**	12227.037	43.79	1.31	54.0	10.21	AV	0.00	200	Vertical	Pass
6	17396.775	56.97	3.06	74.0	17.03	Peak	140.00	300	Vertical	Pass
6**	17396.775	46.86	3.06	54.0	7.14	AV	140.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1551.400	38.95	-17.45	74.0	35.05	Peak	121.00	400	Horizontal	Pass
1**	1551.400	29.06	-17.45	54.0	24.94	AV	121.00	400	Horizontal	Pass
2	2440.700	107.76	-12.43	74.0	-33.76	Peak	222.00	150	Horizontal	N/A
2**	2440.700	100.52	-12.43	54.0	-46.52	AV	222.00	150	Horizontal	N/A
3	4871.600	51.89	-3.26	74.0	22.11	Peak	275.00	150	Horizontal	Pass
3**	4871.600	47.71	-3.26	54.0	6.29	AV	275.00	150	Horizontal	Pass
4	6674.800	54.93	0.22	74.0	19.07	Peak	186.00	200	Horizontal	Pass
4**	6674.800	45.51	0.22	54.0	8.49	AV	186.00	200	Horizontal	Pass
5	12994.125	53.37	1.20	74.0	20.63	Peak	0.00	100	Horizontal	Pass
5**	12994.125	44.24	1.20	54.0	9.76	AV	0.00	100	Horizontal	Pass
6	15243.750	55.93	0.90	74.0	18.07	Peak	0.00	300	Horizontal	Pass
6**	15243.750	47.39	0.90	54.0	6.61	AV	0.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.300	41.57	-17.49	74.0	32.43	Peak	280.00	400	Vertical	Pass
1**	1495.300	29.96	-17.49	54.0	24.04	AV	280.00	400	Vertical	Pass
2	2440.700	96.87	-12.43	74.0	-22.87	Peak	120.00	100	Vertical	N/A
2**	2440.700	89.88	-12.43	54.0	-35.88	AV	120.00	100	Vertical	N/A
3	4922.800	51.19	-2.33	74.0	22.81	Peak	195.00	200	Vertical	Pass
3**	4922.800	41.36	-2.33	54.0	12.64	AV	195.00	200	Vertical	Pass
4	6274.000	55.88	0.42	74.0	18.12	Peak	27.00	200	Vertical	Pass
4**	6274.000	45.78	0.42	54.0	8.22	AV	27.00	200	Vertical	Pass
5	12798.300	53.10	1.12	74.0	20.90	Peak	63.00	200	Vertical	Pass
5**	12798.300	43.74	1.12	54.0	10.26	AV	63.00	200	Vertical	Pass
6	17402.026	56.63	3.23	74.0	17.37	Peak	0.00	200	Vertical	Pass
6**	17402.026	47.25	3.23	54.0	6.75	AV	0.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1581.300	38.74	-17.29	74.0	35.26	Peak	86.00	200	Horizontal	Pass
1**	1581.300	29.42	-17.29	54.0	24.58	AV	86.00	200	Horizontal	Pass
2	2462.800	107.12	-12.51	74.0	-33.12	Peak	212.00	150	Horizontal	N/A
2**	2462.800	99.29	-12.51	54.0	-45.29	AV	212.00	150	Horizontal	N/A
3	4927.000	52.52	-2.45	74.0	21.48	Peak	213.00	150	Horizontal	Pass
3**	4927.000	46.01	-2.45	54.0	7.99	AV	213.00	150	Horizontal	Pass
4	6606.000	54.73	1.35	74.0	19.27	Peak	58.00	100	Horizontal	Pass
4**	6606.000	46.08	1.35	54.0	7.92	AV	58.00	100	Horizontal	Pass
5	12784.125	54.15	1.25	74.0	19.85	Peak	48.00	200	Horizontal	Pass
5**	12784.125	43.53	1.25	54.0	10.47	AV	48.00	200	Horizontal	Pass
6	17398.350	56.43	3.12	74.0	17.57	Peak	73.00	400	Horizontal	Pass
6**	17398.350	46.82	3.12	54.0	7.18	AV	73.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1163.400	41.54	-17.95	74.0	32.46	Peak	78.00	300	Vertical	Pass
1**	1163.400	32.64	-17.95	54.0	21.36	AV	78.00	300	Vertical	Pass
2	2457.100	97.68	-12.46	74.0	-23.68	Peak	121.00	200	Vertical	N/A
2**	2457.100	89.10	-12.46	54.0	-35.10	AV	121.00	200	Vertical	N/A
3	4936.800	51.85	-2.92	74.0	22.15	Peak	0.00	100	Vertical	Pass
3**	4936.800	41.39	-2.92	54.0	12.61	AV	0.00	100	Vertical	Pass
4	6270.800	54.43	0.51	74.0	19.57	Peak	212.00	300	Vertical	Pass
4**	6270.800	45.45	0.51	54.0	8.55	AV	212.00	300	Vertical	Pass
5	12968.662	53.01	0.91	74.0	20.99	Peak	188.00	100	Vertical	Pass
5**	12968.662	42.97	0.91	54.0	11.03	AV	188.00	100	Vertical	Pass
6	16111.050	55.98	0.75	74.0	18.02	Peak	188.00	200	Vertical	Pass
6**	16111.050	46.17	0.75	54.0	7.83	AV	188.00	200	Vertical	Pass

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

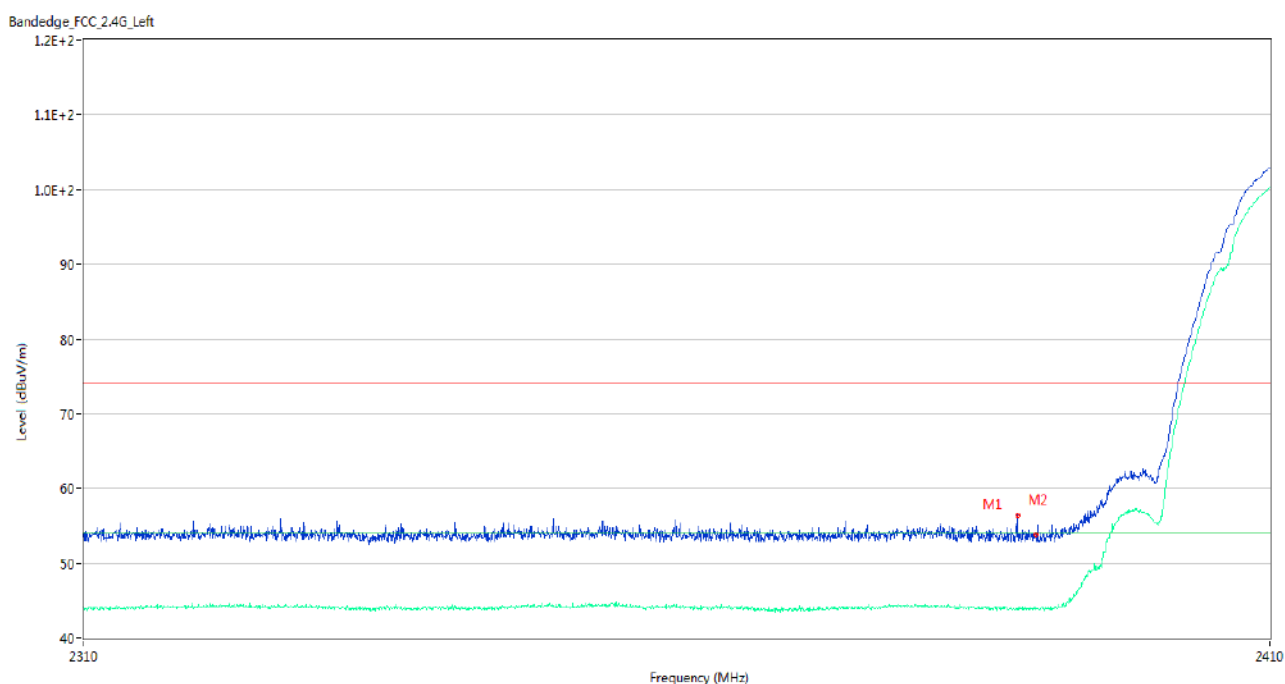
Note ¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

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.

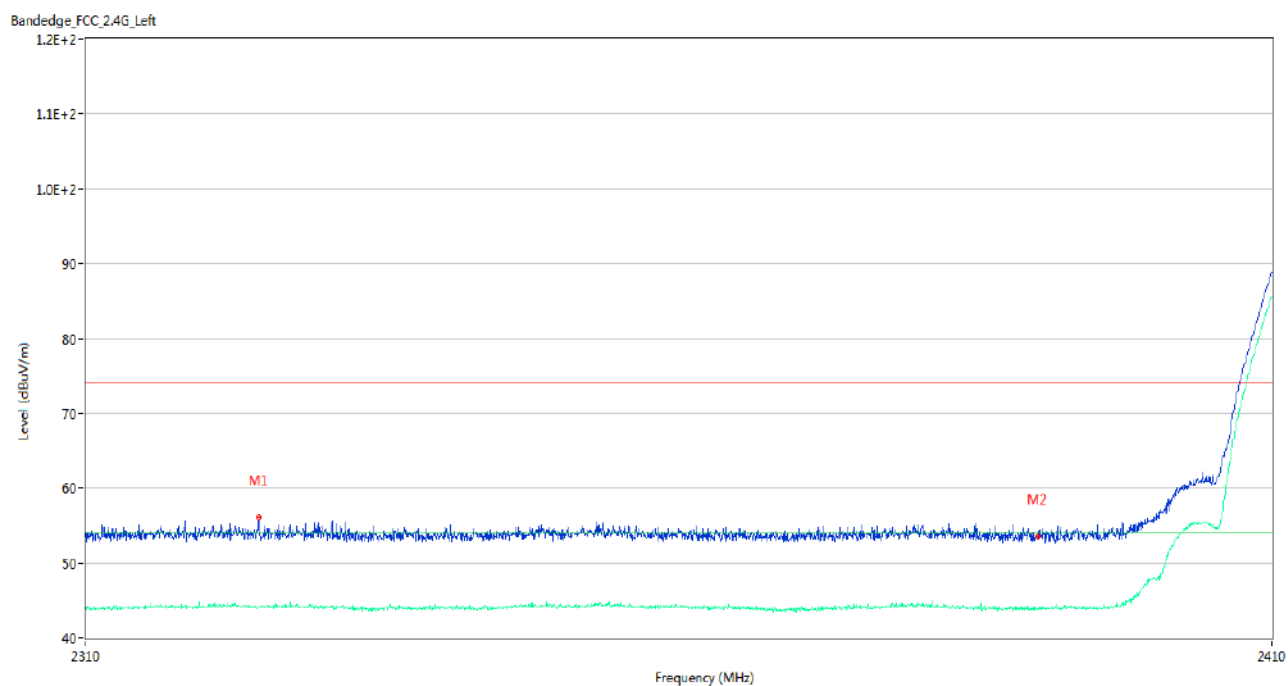
Test Data and Plots

802.11b CHANNEL 1



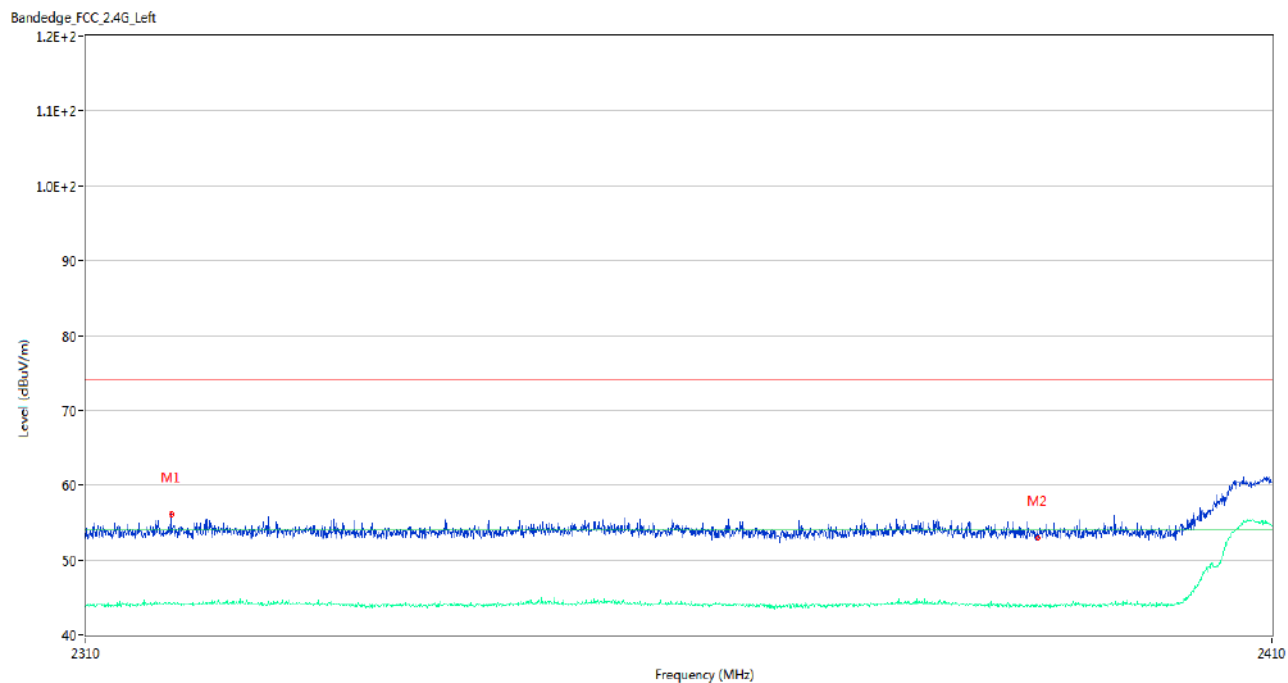
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.350	56.43	-0.64	74.0	17.57	Peak	93.00	100	Horizontal	Pass
1**	2388.350	43.88	-0.64	54.0	10.12	AV	93.00	100	Horizontal	Pass
2	2389.950	53.90	-0.59	74.0	20.10	Peak	219.00	200	Horizontal	Pass
2**	2389.950	44.07	-0.59	54.0	9.93	AV	219.00	200	Horizontal	Pass

802.11b CHANNEL 2



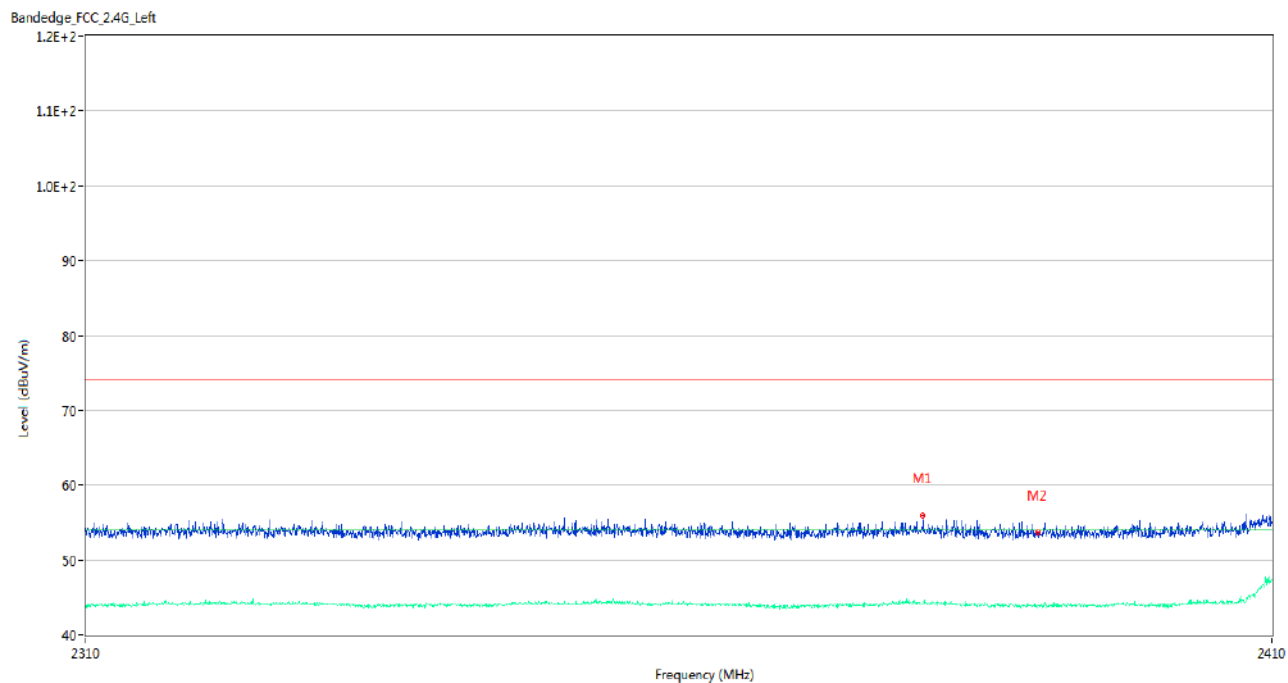
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2324.350	56.14	-0.72	74.0	17.86	Peak	133.00	150	Horizontal	Pass
1**	2324.350	44.14	-0.72	54.0	9.86	AV	133.00	150	Horizontal	Pass
2	2389.950	53.52	-0.59	74.0	20.48	Peak	273.00	200	Horizontal	Pass
2**	2389.950	43.95	-0.59	54.0	10.05	AV	273.00	200	Horizontal	Pass

802.11b CHANNEL 3



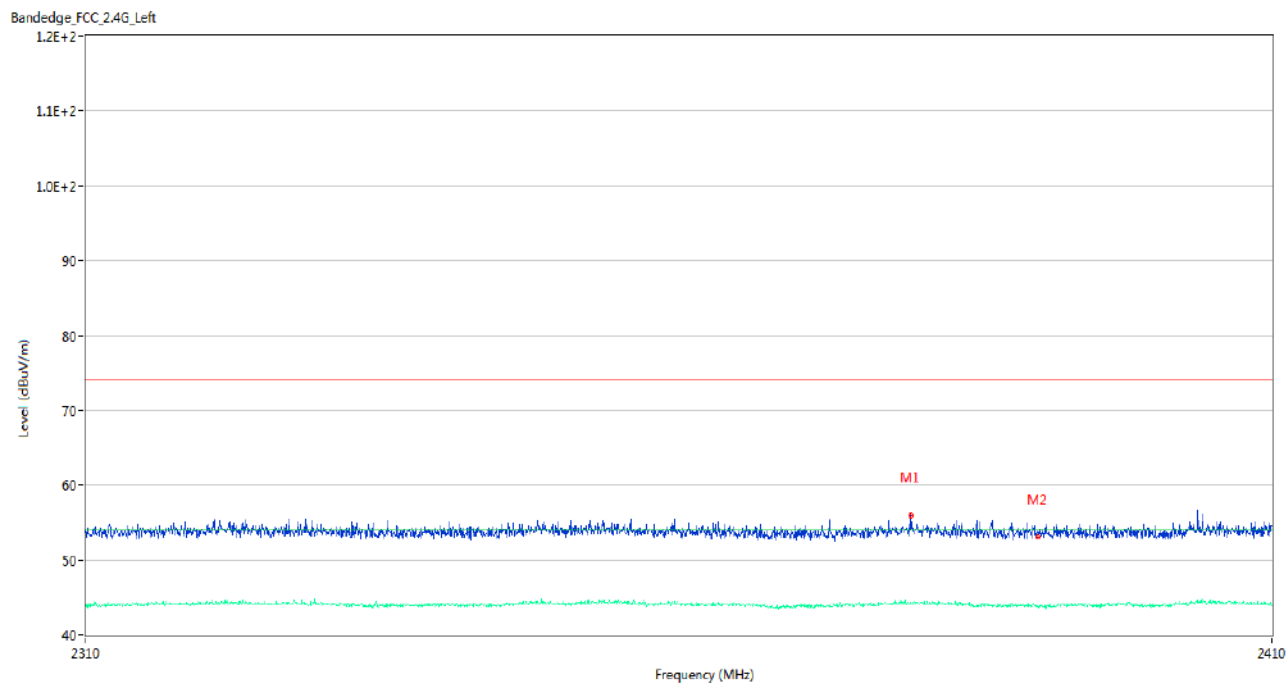
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2317.050	56.06	-0.77	74.0	17.94	Peak	24.00	200	Horizontal	Pass
1**	2317.050	44.26	-0.77	54.0	9.74	AV	24.00	200	Horizontal	Pass
2	2389.950	52.89	-0.59	74.0	21.11	Peak	2.00	200	Horizontal	Pass
2**	2389.950	43.94	-0.59	54.0	10.06	AV	2.00	200	Horizontal	Pass

802.11b CHANNEL 4



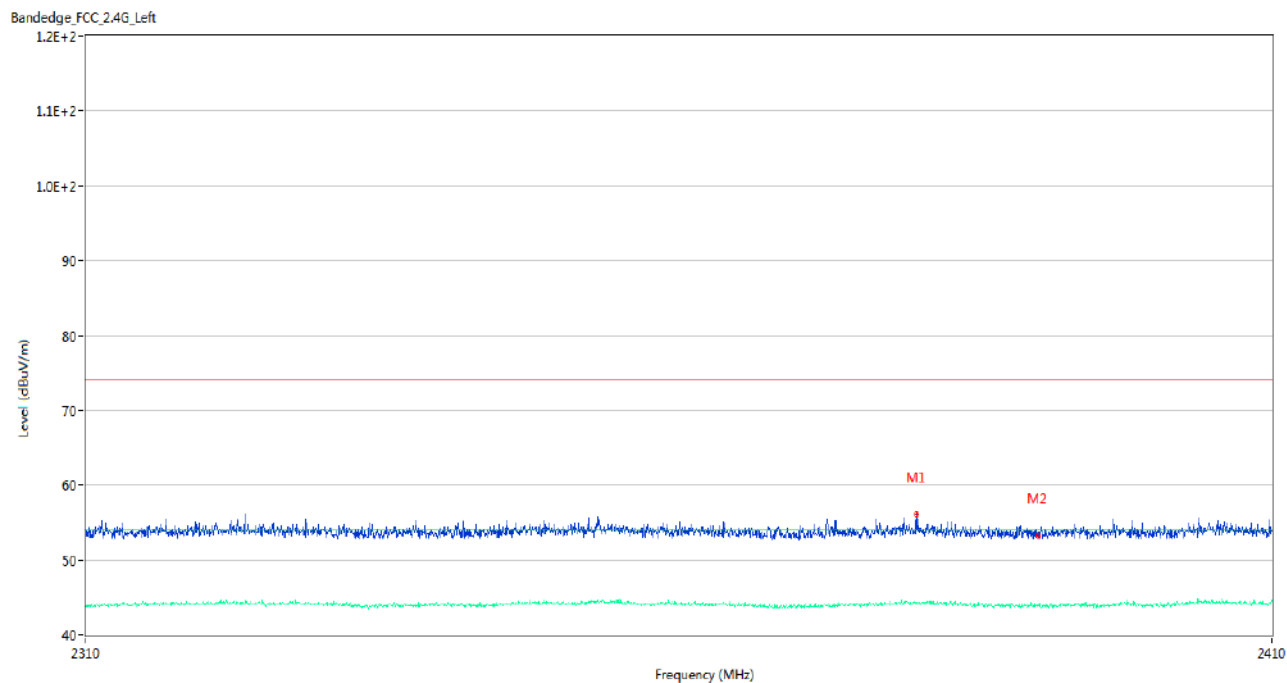
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2380.150	55.98	-0.51	74.0	18.02	Peak	297.00	200	Horizontal	Pass
1**	2380.150	44.15	-0.51	54.0	9.85	AV	297.00	200	Horizontal	Pass
2	2389.950	53.72	-0.59	74.0	20.28	Peak	122.00	150	Horizontal	Pass
2**	2389.950	43.59	-0.59	54.0	10.41	AV	122.00	150	Horizontal	Pass

802.11b CHANNEL 5



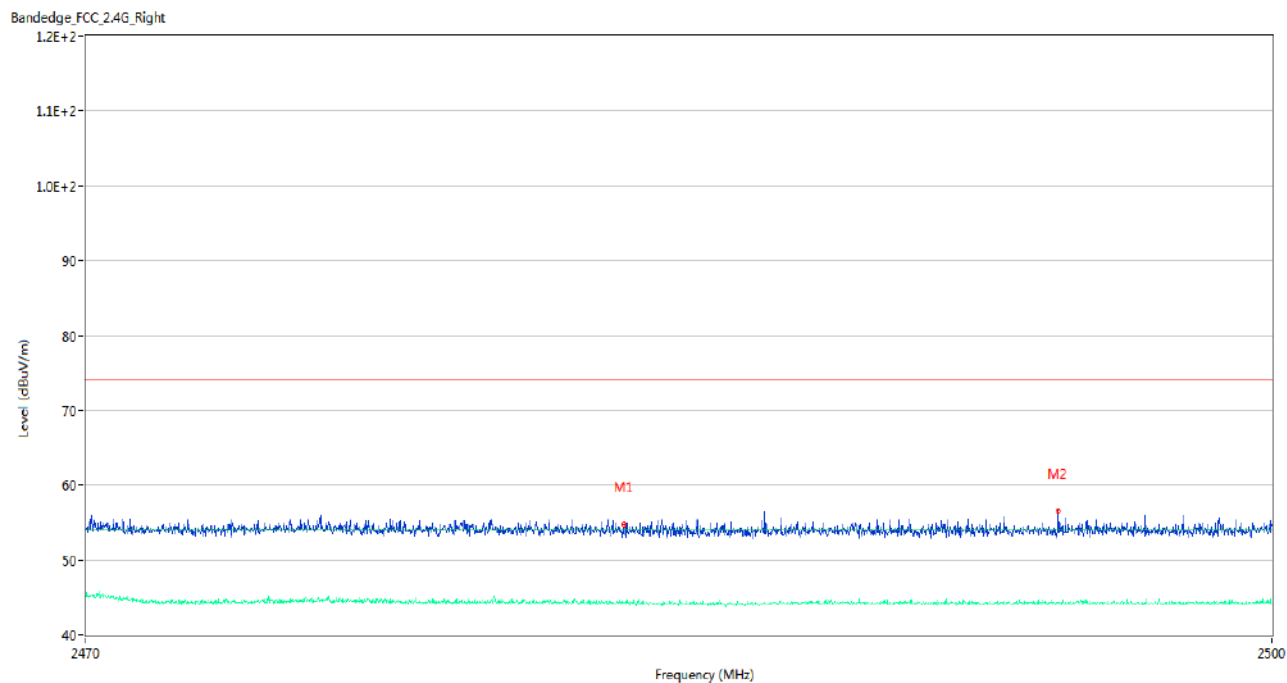
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2379.150	56.04	-0.51	74.0	17.96	Peak	330.00	150	Horizontal	Pass
1**	2379.150	44.20	-0.51	54.0	9.80	AV	330.00	150	Horizontal	Pass
2	2389.950	53.05	-0.59	74.0	20.95	Peak	202.00	150	Horizontal	Pass
2**	2389.950	43.91	-0.59	54.0	10.09	AV	202.00	150	Horizontal	Pass

802.11b CHANNEL 6



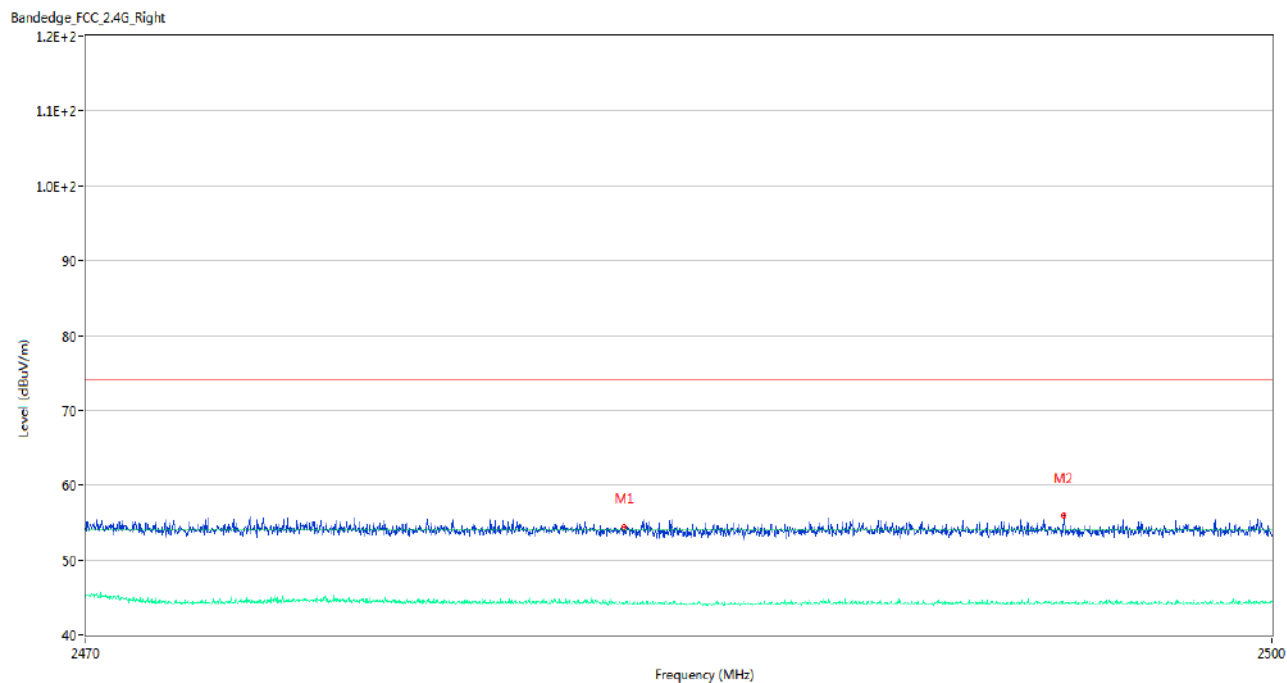
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2379.600	56.17	-0.51	74.0	17.83	Peak	114.00	200	Horizontal	Pass
1**	2379.600	44.31	-0.51	54.0	9.69	AV	114.00	200	Horizontal	Pass
2	2389.950	53.25	-0.59	74.0	20.75	Peak	359.00	150	Horizontal	Pass
2**	2389.950	43.99	-0.59	54.0	10.01	AV	359.00	150	Horizontal	Pass

802.11b CHANNEL 6



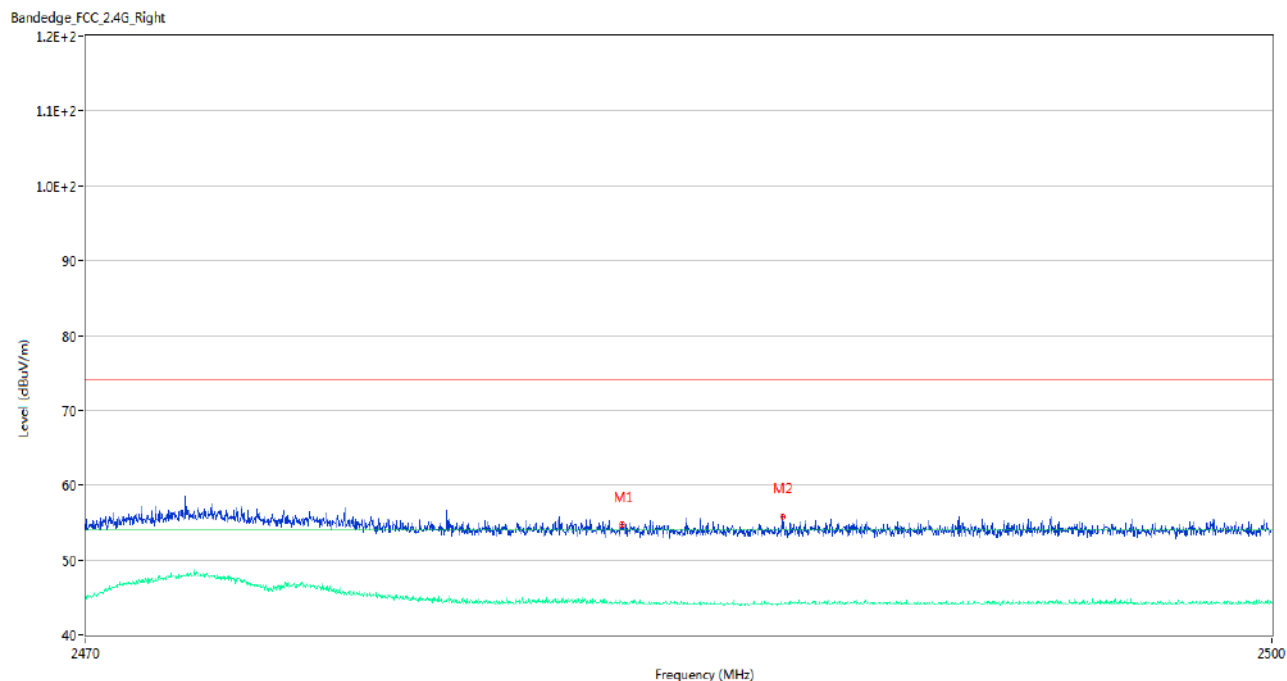
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.590	54.79	-0.06	74.0	19.21	Peak	341.00	200	Horizontal	Pass
1**	2483.590	44.37	-0.06	54.0	9.63	AV	341.00	200	Horizontal	Pass
2	2494.570	56.54	-0.21	74.0	17.46	Peak	97.00	200	Horizontal	Pass
2**	2494.570	44.20	-0.21	54.0	9.80	AV	97.00	200	Horizontal	Pass

802.11b CHANNEL 7



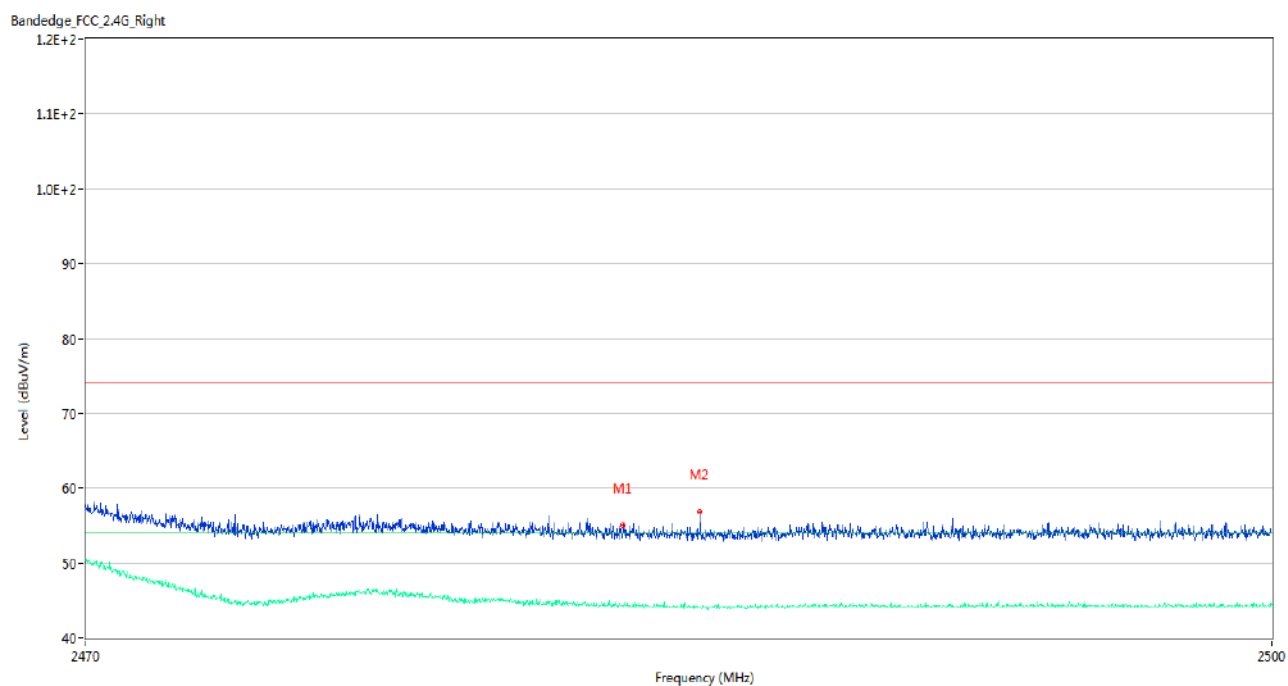
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.575	54.52	-0.06	74.0	19.48	Peak	48.00	100	Horizontal	Pass
1**	2483.575	44.42	-0.06	54.0	9.58	AV	48.00	100	Horizontal	Pass
2	2494.720	55.91	-0.20	74.0	18.09	Peak	84.00	100	Horizontal	Pass
2**	2494.720	44.15	-0.20	54.0	9.85	AV	84.00	100	Horizontal	Pass

802.11b CHANNEL 8



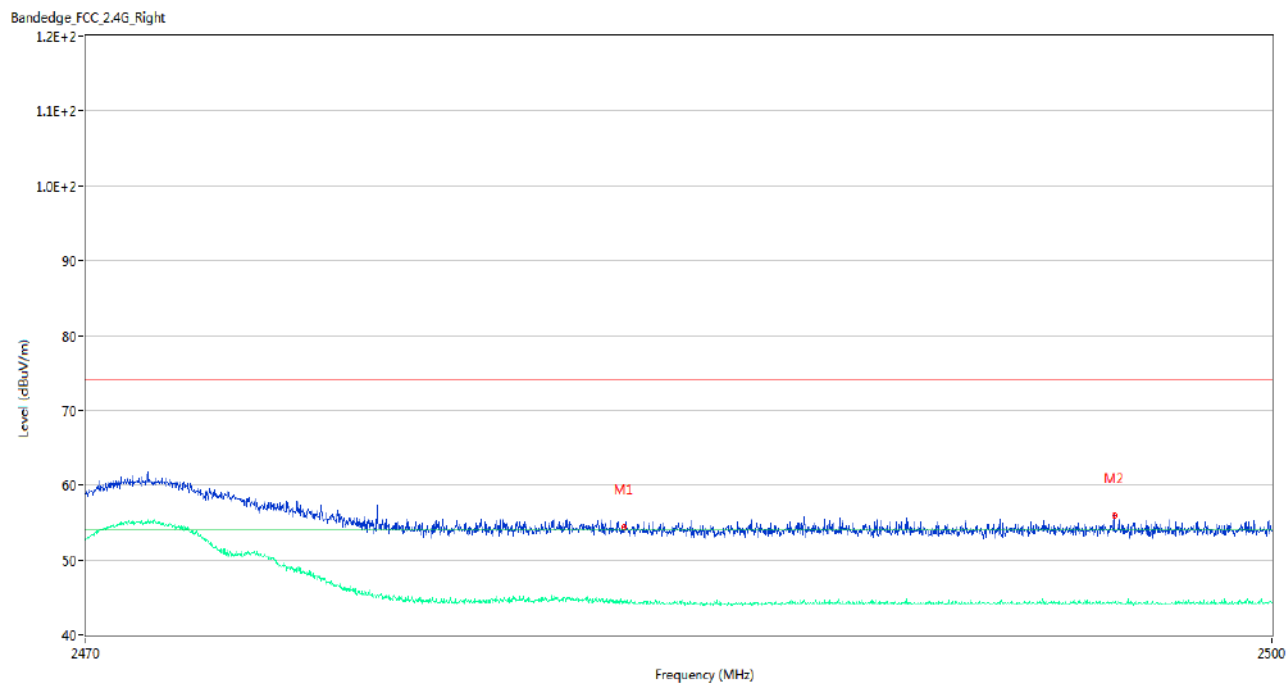
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.530	54.84	-0.05	74.0	19.16	Peak	278.00	150	Horizontal	Pass
1**	2483.530	44.24	-0.05	54.0	9.76	AV	278.00	150	Horizontal	Pass
2	2487.595	55.85	-0.14	74.0	18.15	Peak	134.00	200	Horizontal	Pass
2**	2487.595	44.23	-0.14	54.0	9.77	AV	134.00	200	Horizontal	Pass

802.11b CHANNEL 9



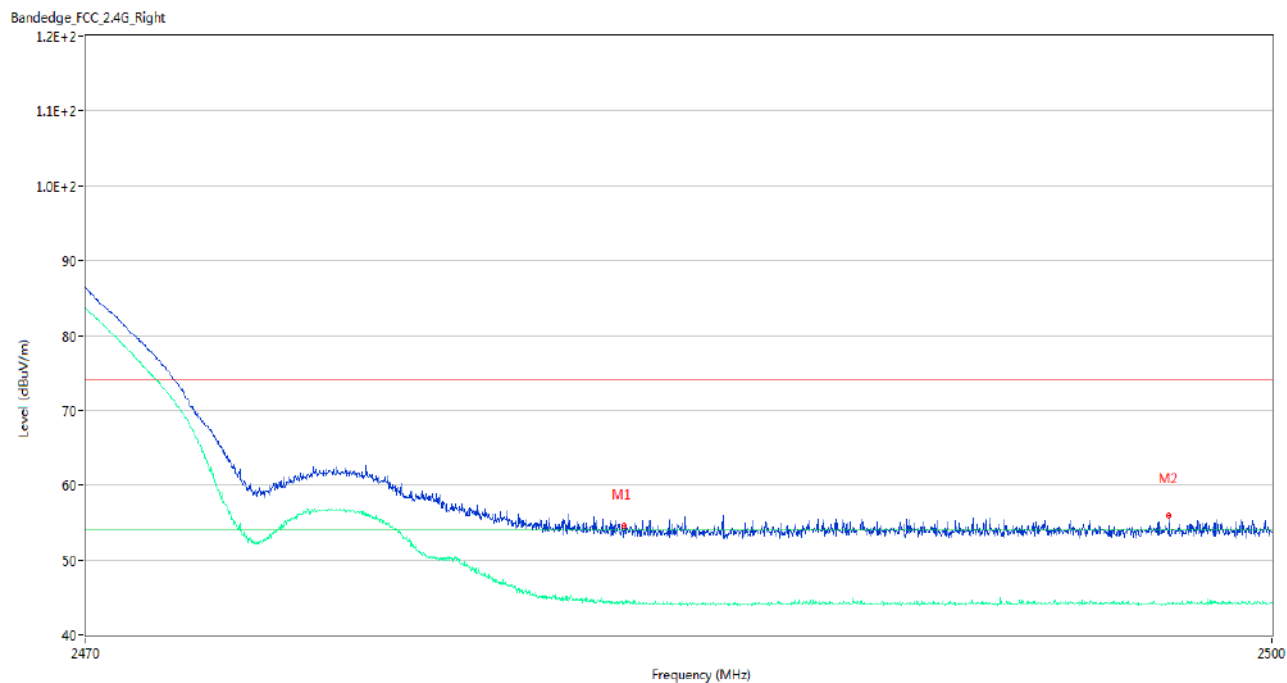
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.560	55.06	-0.06	74.0	18.94	Peak	16.00	100	Horizontal	Pass
1**	2483.560	44.17	-0.06	54.0	9.83	AV	16.00	100	Horizontal	Pass
2	2485.495	56.91	-0.18	74.0	17.09	Peak	358.00	150	Horizontal	Pass
2**	2485.495	44.19	-0.18	54.0	9.81	AV	358.00	150	Horizontal	Pass

802.11b CHANNEL 10



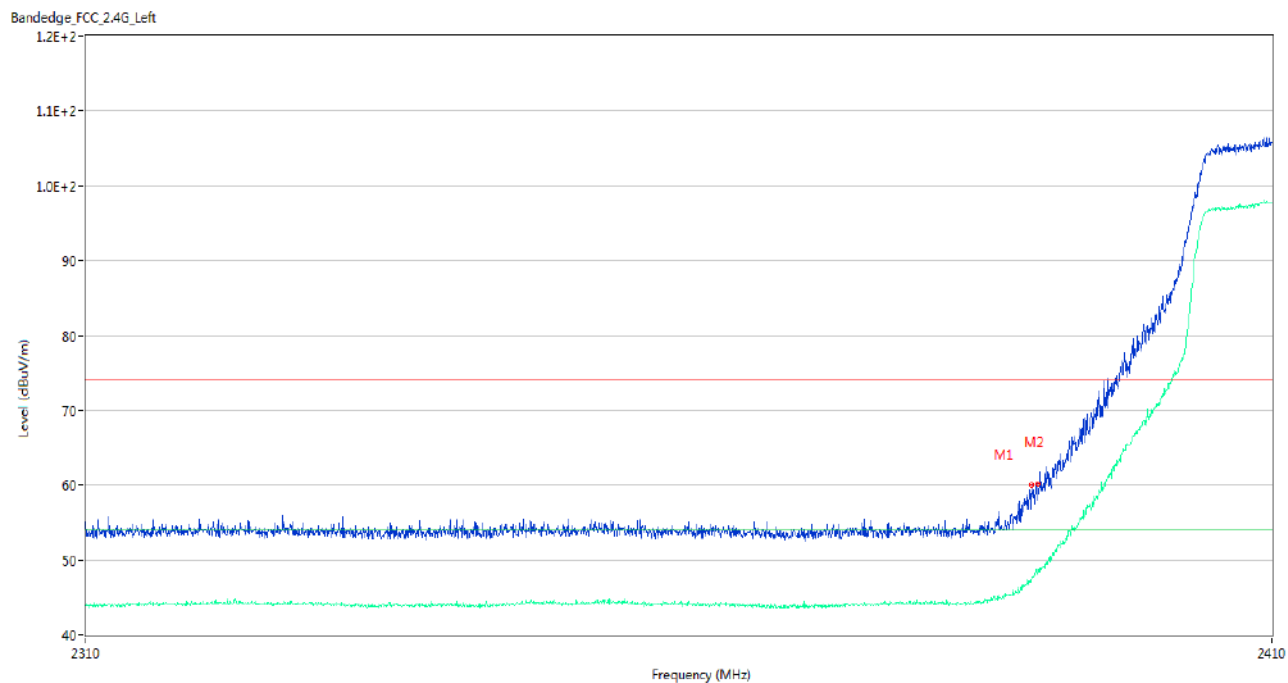
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.590	54.48	-0.06	74.0	19.52	Peak	360.00	150	Horizontal	Pass
1**	2483.590	44.43	-0.06	54.0	9.57	AV	360.00	150	Horizontal	Pass
2	2495.995	55.93	-0.23	74.0	18.07	Peak	358.00	150	Horizontal	Pass
2**	2495.995	44.30	-0.23	54.0	9.70	AV	358.00	150	Horizontal	Pass

802.11b CHANNEL 11



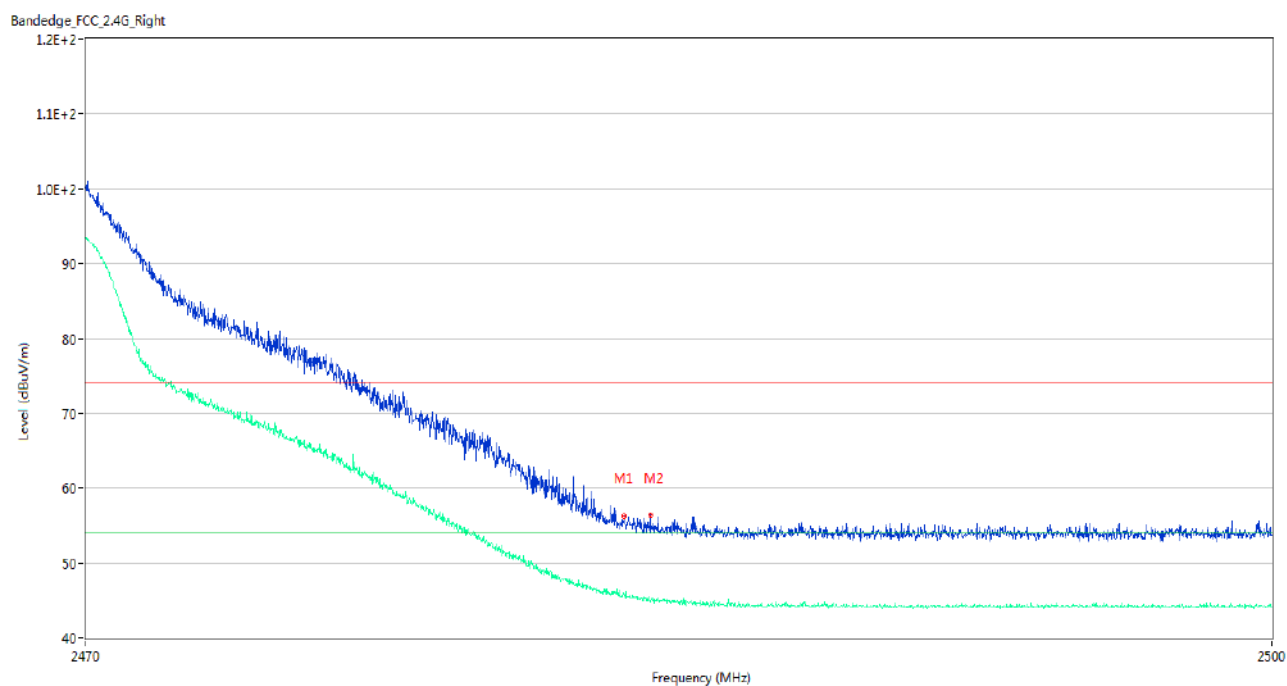
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.590	54.59	-0.06	74.0	19.41	Peak	351.00	200	Horizontal	Pass
1**	2483.590	44.26	-0.06	54.0	9.74	AV	351.00	200	Horizontal	Pass
2	2497.390	55.99	-0.25	74.0	18.01	Peak	292.00	200	Horizontal	Pass
2**	2497.390	44.36	-0.25	54.0	9.64	AV	292.00	200	Horizontal	Pass

802.11g CHANNEL 1



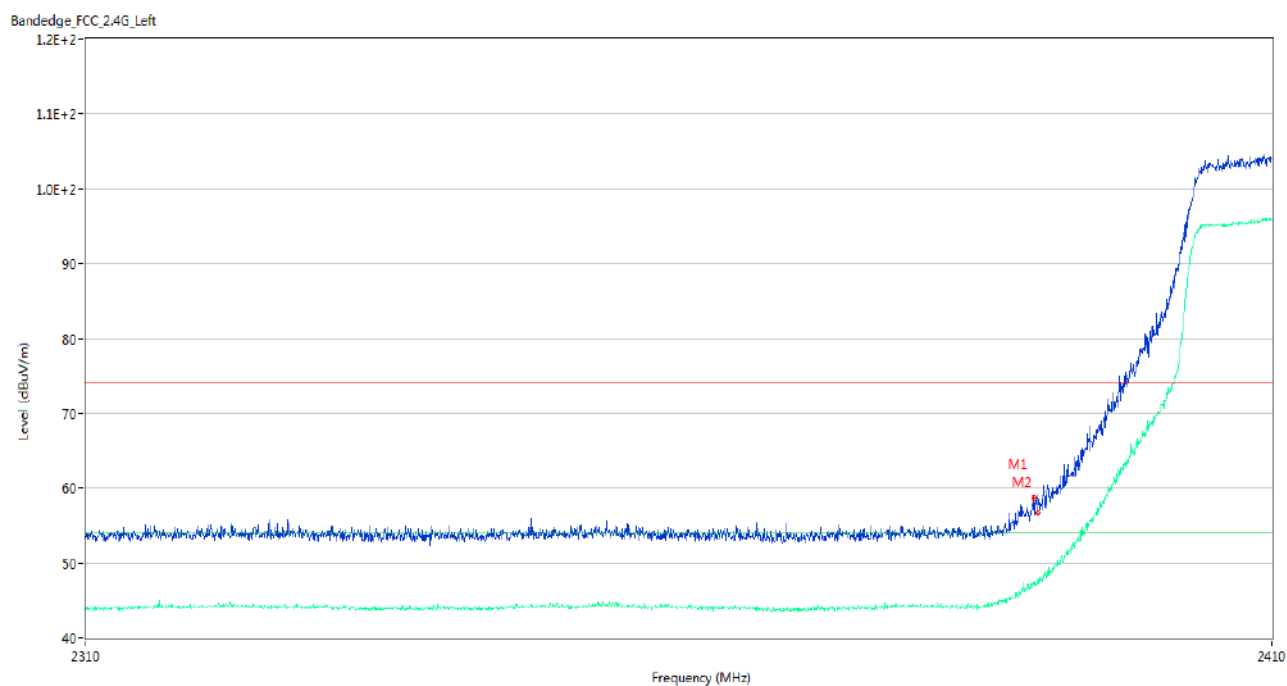
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.400	60.08	-0.61	74.0	13.92	Peak	201.00	100	Horizontal	Pass
1**	2389.400	47.66	-0.61	54.0	6.34	AV	201.00	100	Horizontal	Pass
2	2389.950	60.16	-0.59	74.0	13.84	Peak	0.00	100	Horizontal	Pass
2**	2389.950	48.75	-0.59	54.0	5.25	AV	0.00	100	Horizontal	Pass

802.11g CHANNEL 11



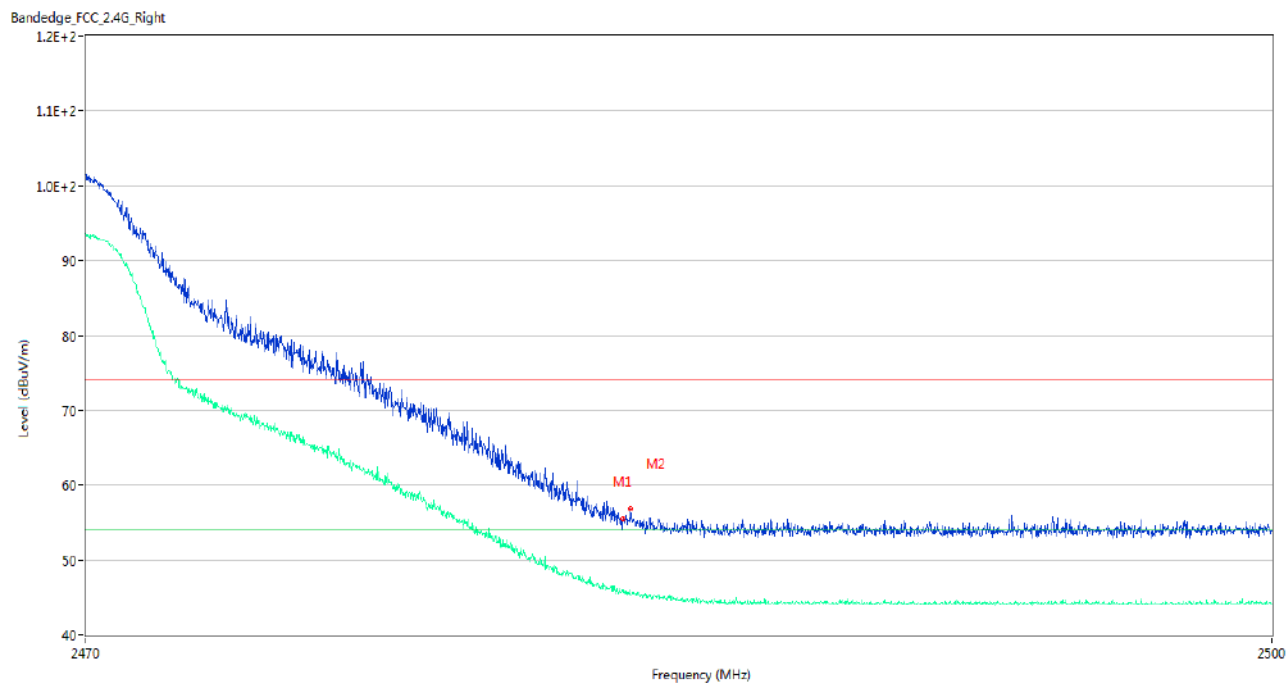
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.590	56.33	-0.06	74.0	17.67	Peak	213.00	200	Horizontal	Pass
1**	2483.590	45.95	-0.06	54.0	8.05	AV	213.00	200	Horizontal	Pass
2	2484.235	56.42	-0.12	74.0	17.58	Peak	286.00	100	Horizontal	Pass
2**	2484.235	44.92	-0.12	54.0	9.08	AV	286.00	100	Horizontal	Pass

802.11n20 CHANNEL 1



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.600	58.63	-0.60	74.0	15.37	Peak	199.00	100	Horizontal	Pass
1**	2389.600	47.41	-0.60	54.0	6.59	AV	199.00	100	Horizontal	Pass
2	2389.950	56.71	-0.59	74.0	17.29	Peak	211.00	100	Horizontal	Pass
2**	2389.950	47.84	-0.59	54.0	6.16	AV	211.00	100	Horizontal	Pass

802.11n20 CHANNEL 11



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.545	55.53	-0.06	74.0	18.47	Peak	200.00	200	Horizontal	Pass
1**	2483.545	46.05	-0.06	54.0	7.95	AV	200.00	200	Horizontal	Pass
2	2483.740	56.89	-0.07	74.0	17.11	Peak	287.00	100	Horizontal	Pass
2**	2483.740	45.60	-0.07	54.0	8.40	AV	287.00	100	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
CH1	-5.31	8
CH2	-5.79	8
CH3	-5.99	8
CH4	-4.93	8
CH5	-3.30	8
CH6	-4.51	8
CH7	-5.50	8
CH8	-3.10	8
CH9	-4.45	8
CH10	-4.26	8
CH11	-3.37	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
CH1	-9.38	8
CH6	-9.82	8
CH11	-10.17	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
CH1	-11.39	8
CH6	-10.49	8
CH11	-11.58	8

Test Plots

802.11b CHANNEL 1



802.11b CHANNEL 2



802.11b CHANNEL 3



802.11b CHANNEL 4



802.11b CHANNEL 5



802.11b CHANNEL 6



802.11b CHANNEL 7



802.11b CHANNEL 8



802.11b CHANNEL 9



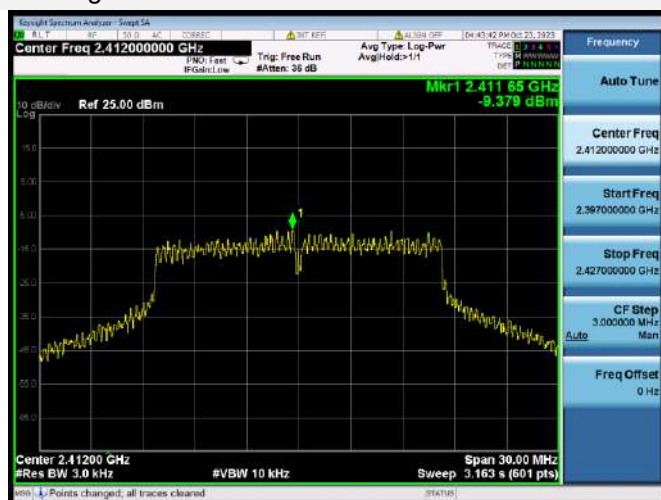
802.11b CHANNEL 10



802.11b CHANNEL 11



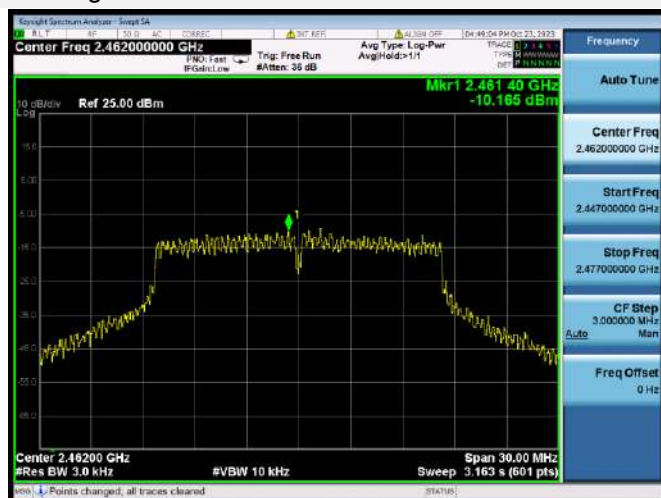
802.11g CHANNEL 1



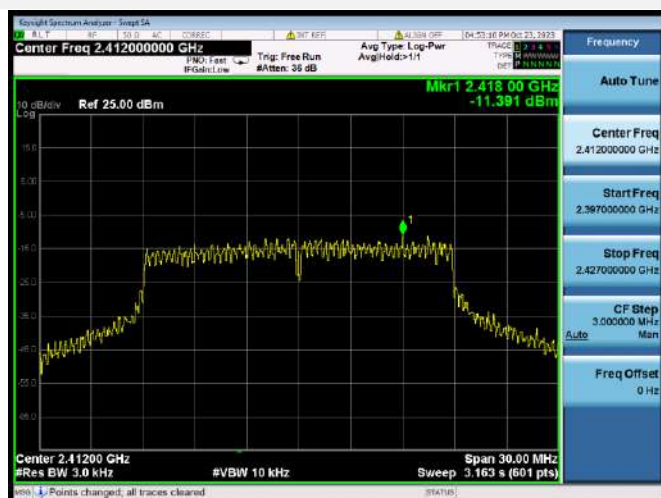
802.11g CHANNEL 6



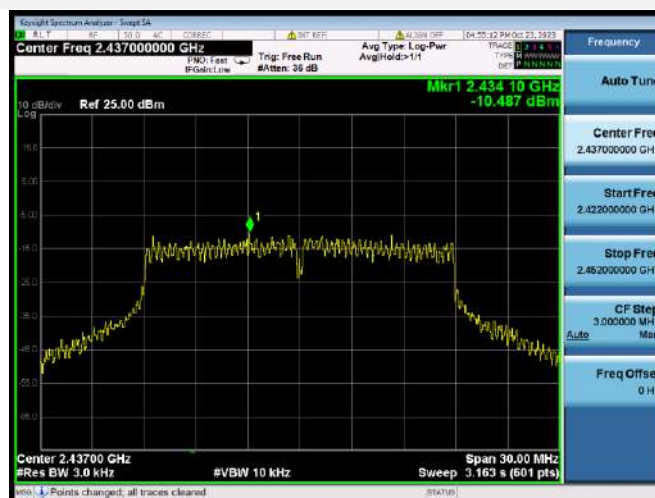
802.11g CHANNEL 11



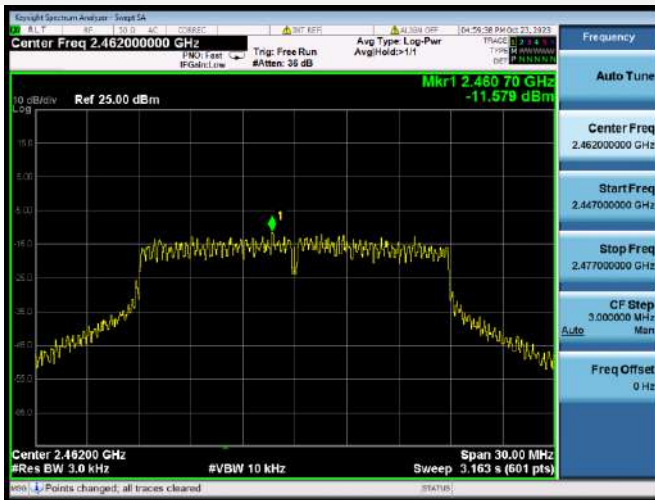
802.11n-20 MHz CHANNEL 1



802.11n-20 MHz CHANNEL 6



802.11n-20 MHz CHANNEL 11



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2391253-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2391253-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2391253-AI.PDF”.

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--END OF REPORT--