

TEST REPORT

Applicant: Woan Technology (Shenzhen) Co., Ltd.
Address: Room 1101, Qiancheng Commercial Center, No. 5
Haicheng Road, Mabu Community, Xixiang Sub-
district, Bao'an District, Shenzhen, Guangdong, P.R.
China, 518100
Equipment Type: SwitchBot AI MindClip
Model Name: W6902000 (refer to section 2.3)
Brand Name: SwitchBot
FCC ID: 2AKXB-W6902000
Test Standard: 47 CFR Part 15 Subpart C
(refer to section 3.1)
Sample Arrival Date: Jan. 07, 2026
Test Date: Jan. 13, 2026 - Jan. 22, 2026
Date of Issue: Feb. 04, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

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

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Feb. 04, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No. 55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong Province, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Woan Technology (Shenzhen) Co., Ltd.
Address	Room 1101, Qiancheng Commercial Center, No. 5 Haicheng Road, Mabu Community, Xixiang Sub-district, Bao'an District, Shenzhen, Guangdong, P.R. China, 518100

2.2 Manufacturer Information

Manufacturer	Woan Technology (Shenzhen) Co., Ltd.
Address	Room 1101, Qiancheng Commercial Center, No. 5 Haicheng Road, Mabu Community, Xixiang Sub-district, Bao'an District, Shenzhen, Guangdong, P.R. China, 518100

2.3 General Description for Equipment under Test (EUT)

EUT Name	SwitchBot AI MindClip
Model Name Under Test	W6902000
Series Model Name	W6902001, W6902002, W6902003, W6902004, W6902005
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the applicant)
Hardware Version	V07
Software Version	V07
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BLE) WIFI 802.11b, 802.11g, 802.11n
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	2.400 GHz - 2.4835 GHz
Modulation Technology	DSSS, OFDM
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	Ceramic Antenna
Antenna Gain	2.0 dBi
About the Product	Only the WIFI 802.11b, 802.11g and 802.11n (HT20/40) was tested in this report.

2.5 Channel List

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

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

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

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

Note: The above EUT information in section 2.4 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 C63.10-2020	American National Standard for 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}
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: 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	45% to 58%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.4℃ to +25.1℃
Working Voltage of the EUT	NV (Normal Voltage)	3.9V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420186	2025.05.21	2026.05.20
Power meter	R&S	NRP8S	101498	2025.07.07	2026.07.06
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060127	2025.02.27	2026.02.26
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Test Antenna-Bi-Log	Schwarzbeck	VULB 9163	01414	2023.11.03	2026.11.02
Test Antenna-Horn	Schwarzbeck	BBHA 9120D	02459	2023.10.26	2026.10.25
Test Antenna-Loop	Schwarzbeck	FMZB 1513-60	00015	2024.05.07	2026.05.06
Anechoic Chamber	YIHENG	C8-966	N/A	2024.05.15	2027.05.11
EMI Receiver	Keysight	N9038A	MY55330121	2025.04.16	2026.04.15
Filtering unit	balun	SU319F	LW-SZ19D0001F01	N/A	N/A
Switching unit	BALUN	SU319	LW-SZ19D0001S01	N/A	N/A
EMI Receiver	keysight	N9038B	MY61380132	2025.04.01	2026.03.31
LISN	SCHWARZBECK MESS- ELEKTRONIK	NSLK8127	01009	2025.07.15	2026.07.14
Shielded Enclosure	YiHeng Electronic Co., Ltd	4.3m*2.9m*2.4 m	235	2024.11.05	2027.11.04

4.3 STest Software List

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

4.4 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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

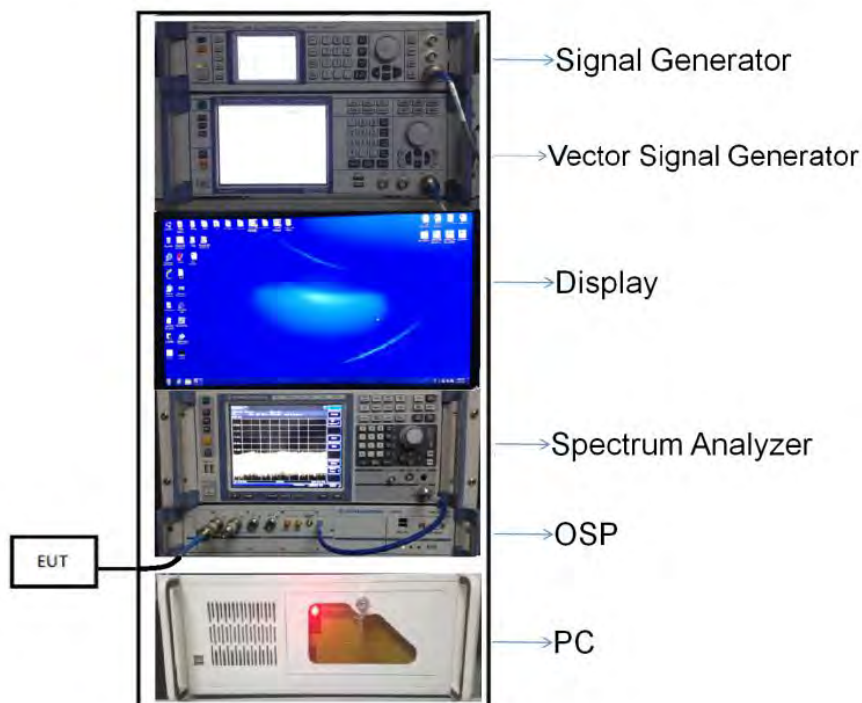
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

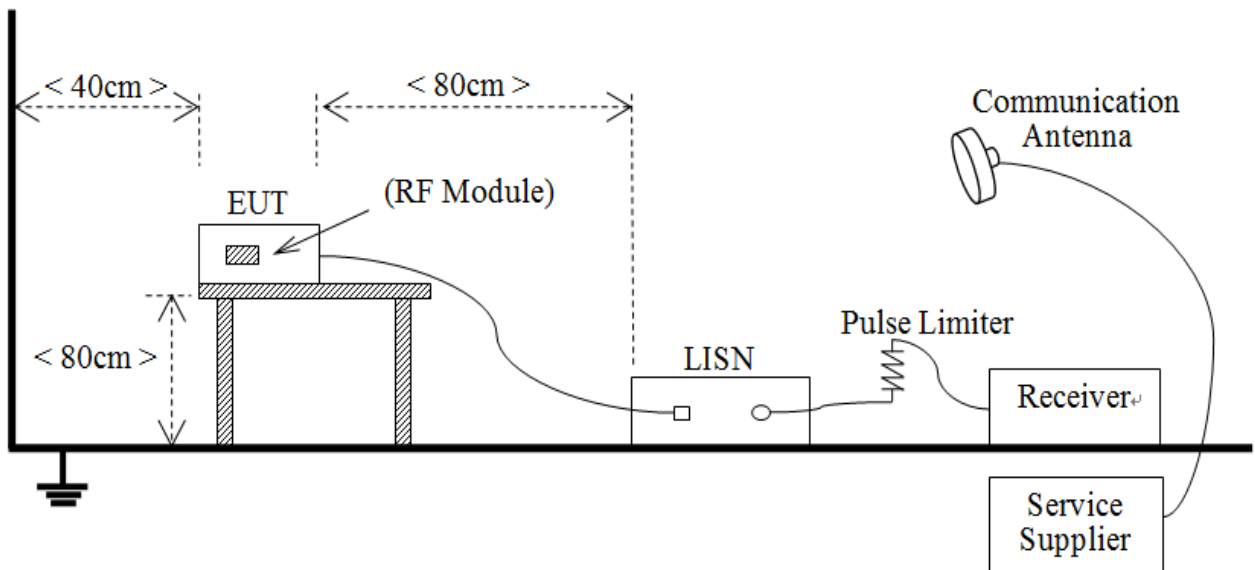
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



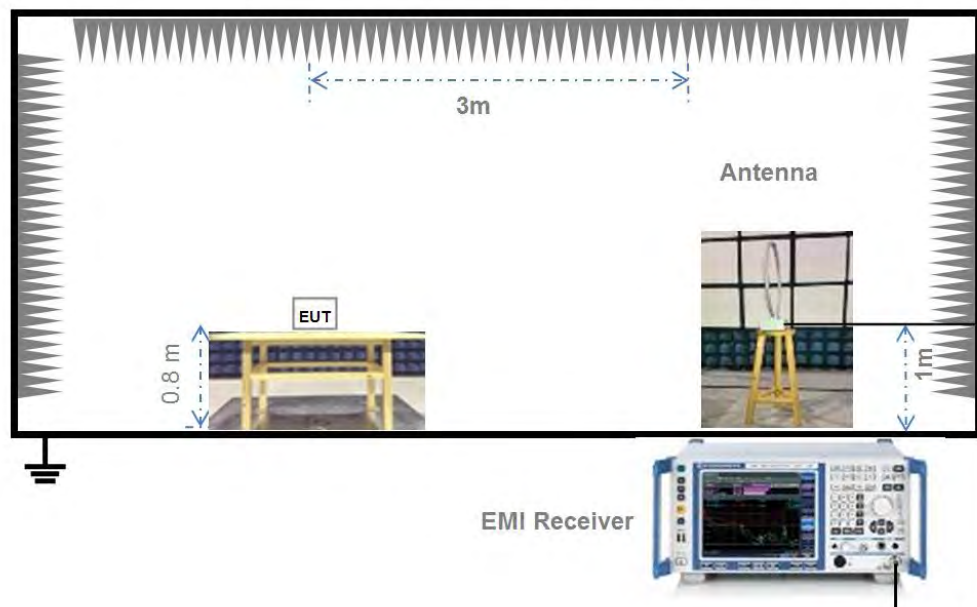
(Diagram 1)

4.5.2 For AC Power Supply Port Test



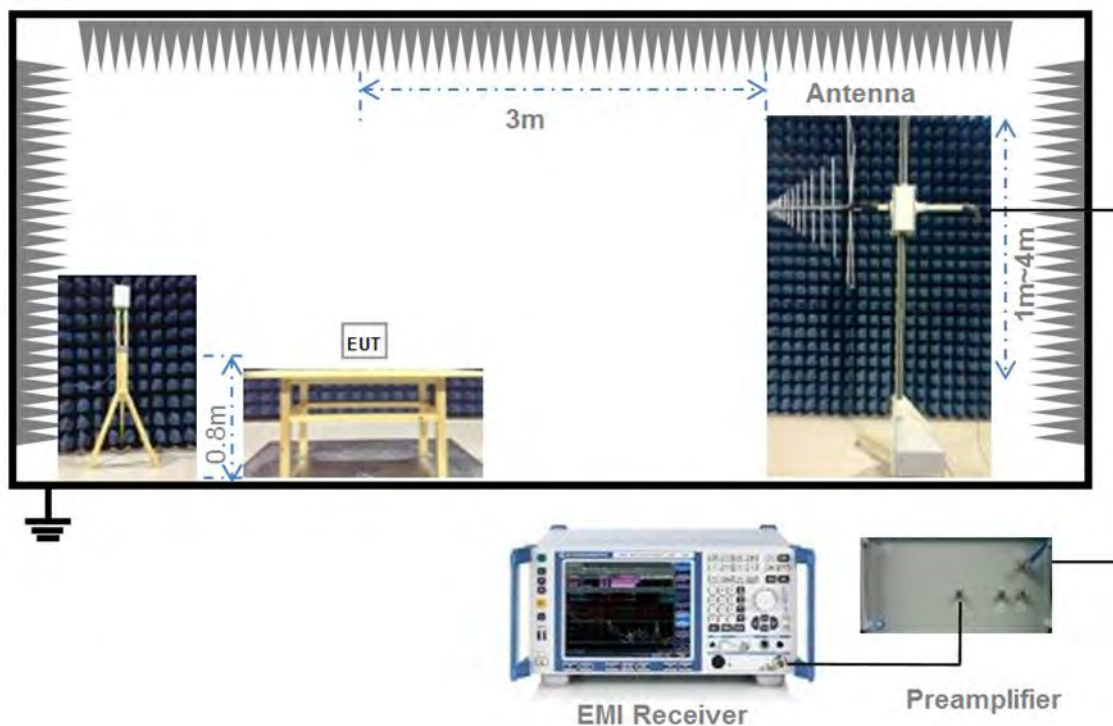
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



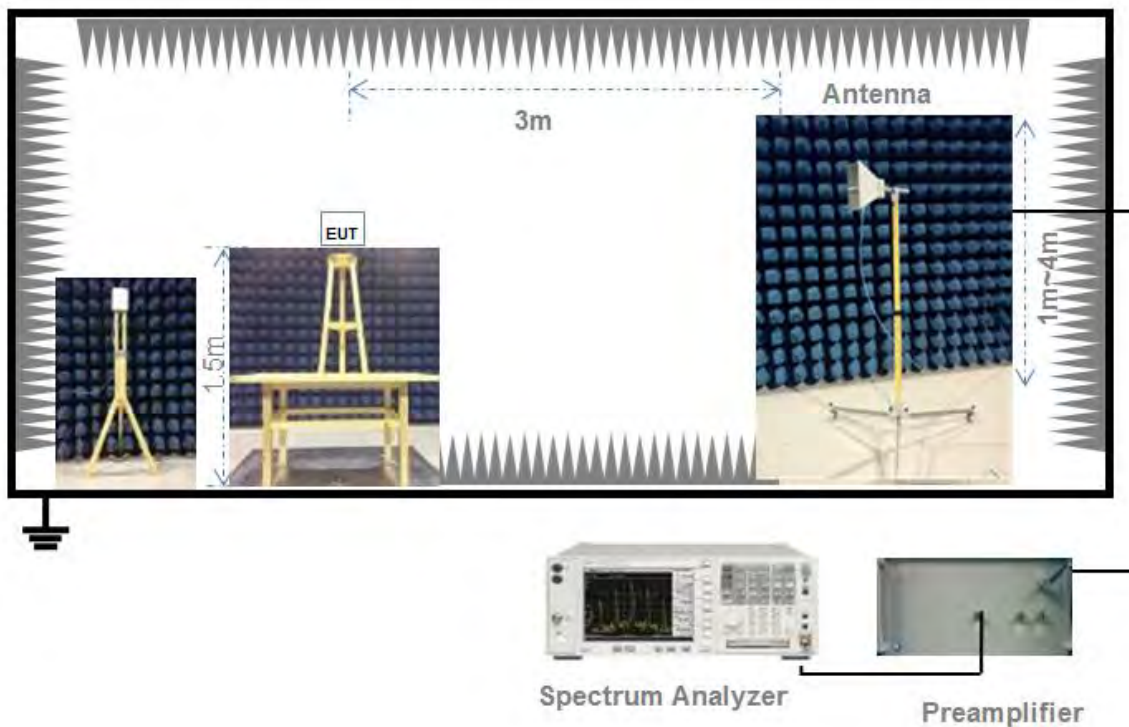
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.6 Measurement Results Explanation Example

4.6.1 For conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

4.6.2 For radiated band edges and spurious emission test:

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

where:

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

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203

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.

The EUT shall be transmitted at its maximum power control level.

Maximum conducted (average) output power (Reporting Only)

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

- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty factor.
 - 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
 - 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal.
- c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- d) Adjust the measurement in dBm by adding $10\log(1/x)$, where x is the duty cycle.

Measurements of duty cycle

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

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

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

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

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

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC §15.247(a)

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

Note:

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

5.7.2 Test Setup

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

5.7.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

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

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

where:

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

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

Quasi-Peak measurement procedure

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

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

Peak power measurement procedure

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

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

longer for low duty cycle applications).

Table 1—RBW as a function of frequency

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

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

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

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

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

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Band Edge (Restricted-band band-edge)

5.8.1 Limit

FCC §15.209&15.247(d)

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	Duty Factor
802.11b	32.60	33.00	98.79%	0.05
802.11g	5.42	5.49	98.78%	0.05
802.11n-20 MHz	5.03	5.09	98.70%	0.06
802.11n-40 MHz	2.44	2.47	98.75%	0.05

Peak Power Test Data

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.03	40.09	30	1000	Pass
Middle	17.41	55.08			Pass
High	17.57	57.15			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.84	76.56	30	1000	Pass
Middle	19.44	87.90			Pass
High	19.79	95.28			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.86	61.09	30	1000	Pass
Middle	18.46	70.15			Pass
High	18.78	75.51			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.72	46.99	30	1000	Pass
Middle	17.15	51.88			Pass
High	17.44	55.46			Pass

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.69	18.58	30	1000	Pass
Middle	13.37	21.73			Pass
High	14.30	26.92			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.47	17.66	30	1000	Pass
Middle	13.11	20.46			Pass
High	13.49	22.34			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.45	13.96	30	1000	Pass
Middle	12.08	16.14			Pass
High	12.41	17.42			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.44	11.07	30	1000	Pass
Middle	10.85	12.16			Pass
High	11.19	13.15			Pass

A.2 Occupied Bandwidth

Test Data

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	9.400000	14.165000	≥ 500
Middle	9.400000	14.171000	≥ 500
High	9.400000	14.185000	≥ 500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	15.300000	17.227000	≥ 500
Middle	15.200000	17.166000	≥ 500
High	15.100000	17.407000	≥ 500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	8.900000	17.980000	≥ 500
Middle	9.000000	18.063000	≥ 500
High	9.100000	18.249000	≥ 500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	27.400000	35.044000	≥ 500
Middle	26.800000	35.049000	≥ 500
High	27.200000	35.108000	≥ 500

Test Plots

6 dB Bandwidth

802.11b LOW CHANNEL



802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz HIGH CHANNEL



99% Bandwidth

802.11b LOW CHANNEL



802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



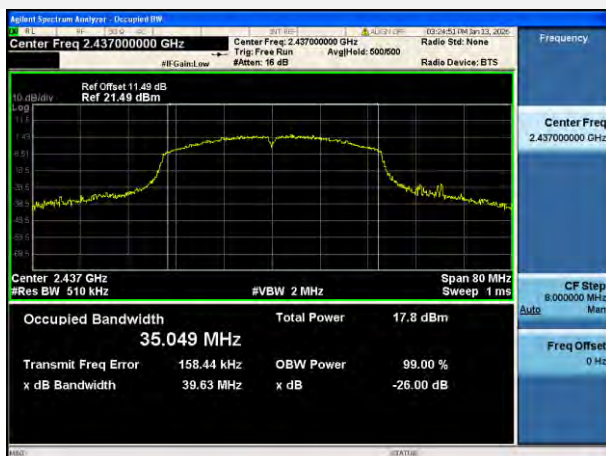
802.11n-20 MHz HIGH CHANNEL



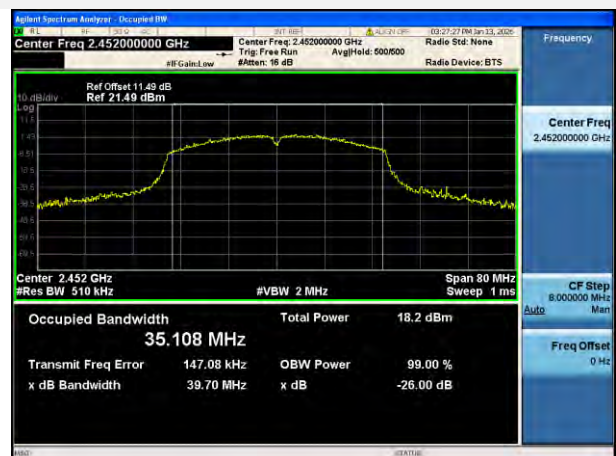
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



A.3 Conducted Spurious Emissions

Test Data

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-33.83	4.31	-15.69	Pass
Middle	-33.89	5.22	-14.78	Pass
High	-34.69	5.91	-14.09	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.90	2.81	-17.19	Pass
Middle	-35.81	2.46	-17.54	Pass
High	-34.55	3.80	-16.20	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.27	2.38	-17.62	Pass
Middle	-34.37	2.04	-17.96	Pass
High	-34.14	4.45	-15.55	Pass

802.11n-40MHz Mode:

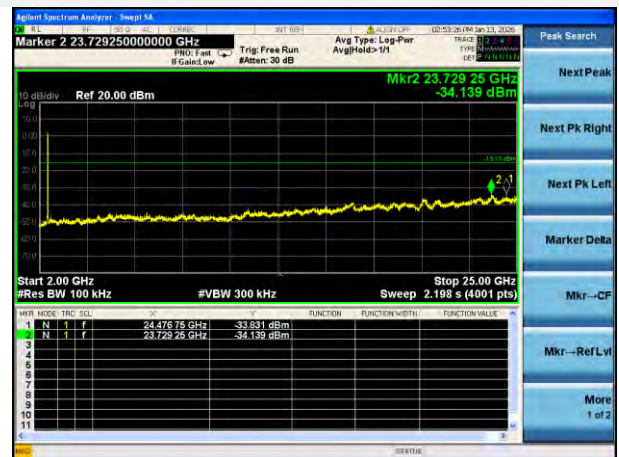
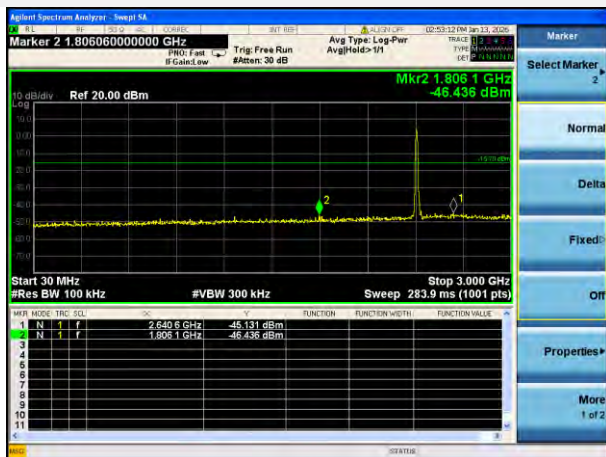
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-33.95	-1.30	-21.30	Pass
Middle	-34.46	-1.59	-21.59	Pass
High	-36.36	-0.65	-20.65	Pass

Test Plots

802.11b LOW CHANNEL CARRIER LEVEL



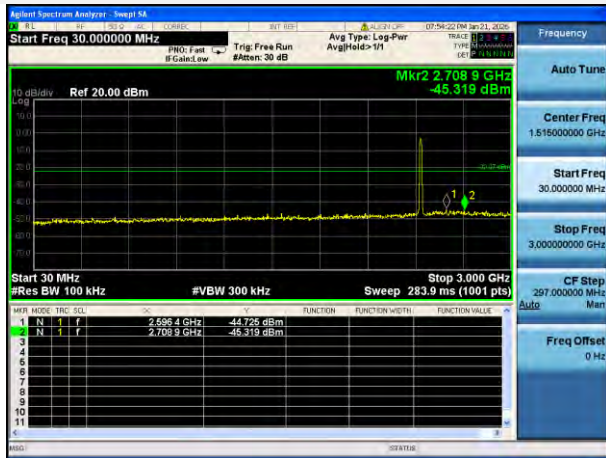
802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz 802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



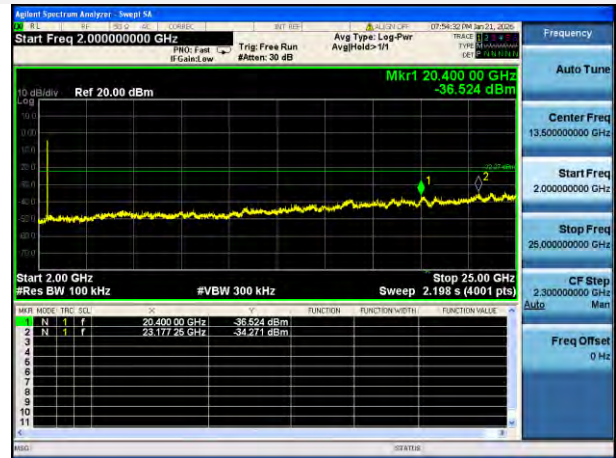
802.11b MIDDLE CHANNEL CARRIER LEVEL



802.11b MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



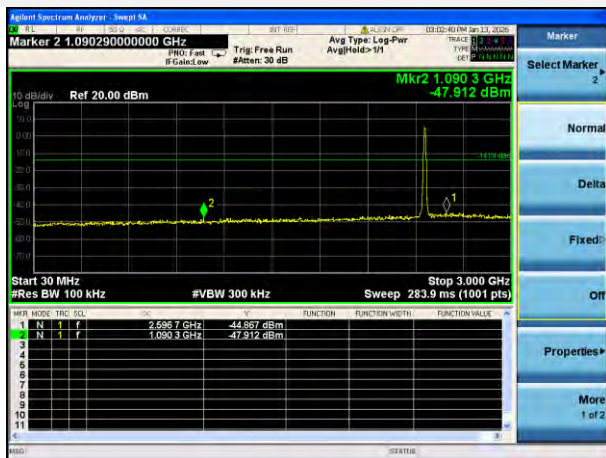
802.11b MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



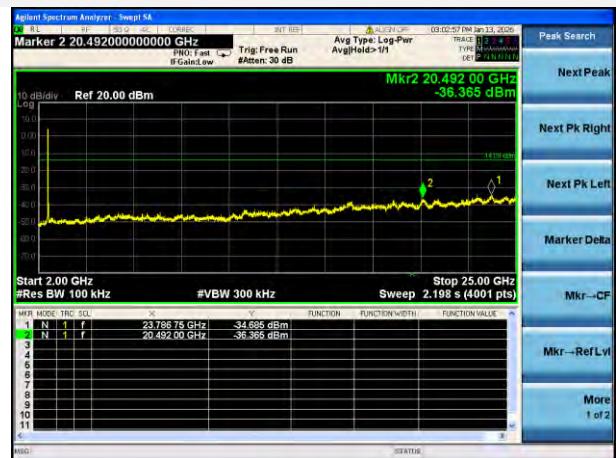
802.11b HIGH CHANNEL CARRIER LEVEL



802.11b HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



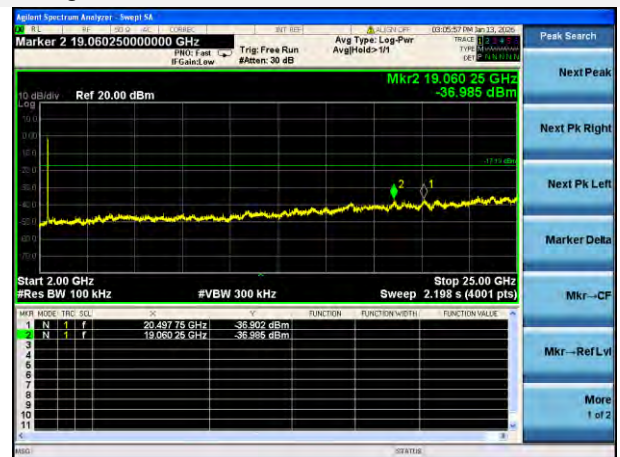
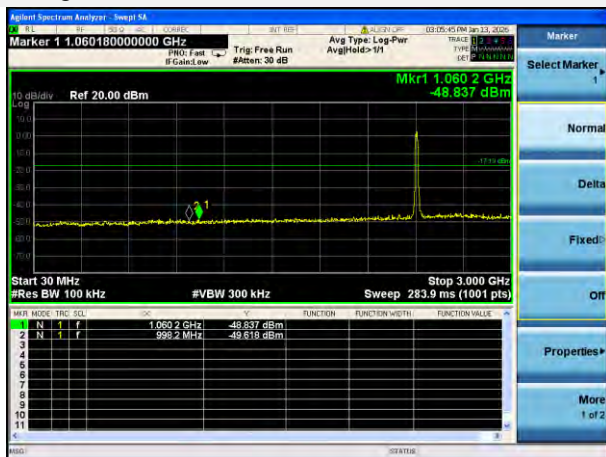
802.11b HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



802.11g LOW CHANNEL CARRIER LEVEL



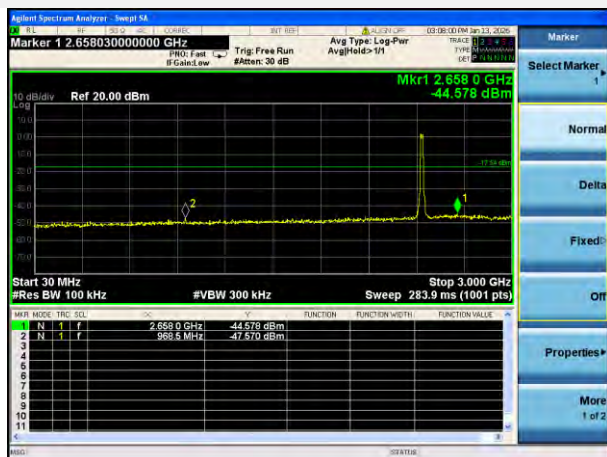
802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz 802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



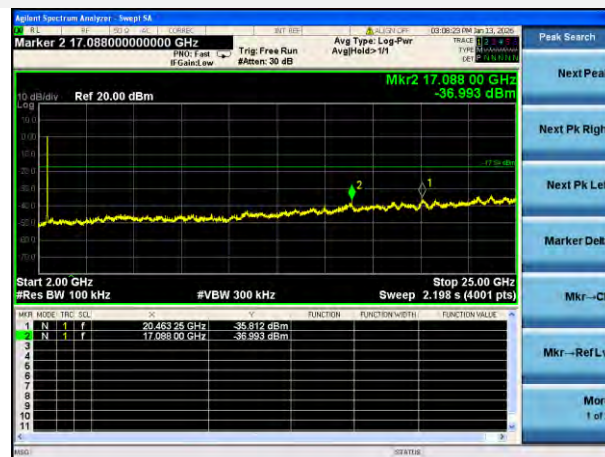
802.11g MIDDLE CHANNEL CARRIER LEVEL



802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



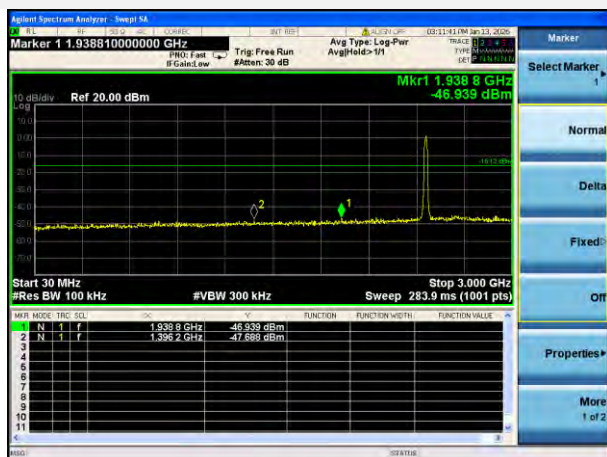
802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



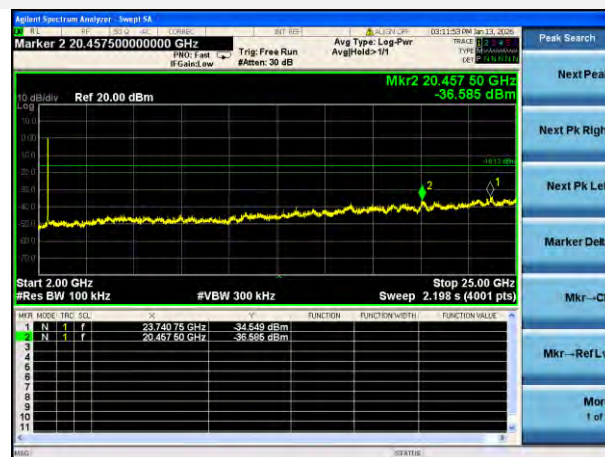
802.11g HIGH CHANNEL CARRIER LEVEL



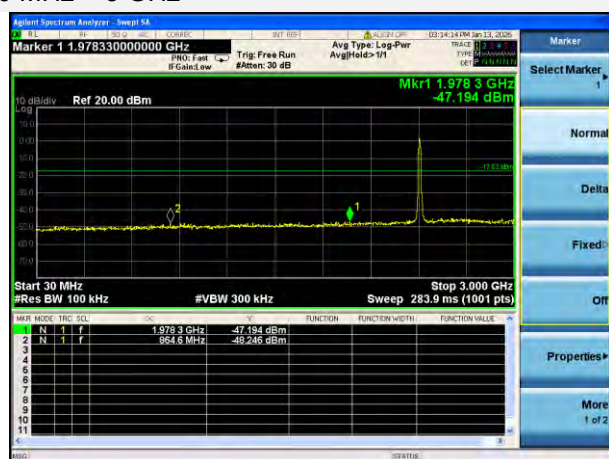
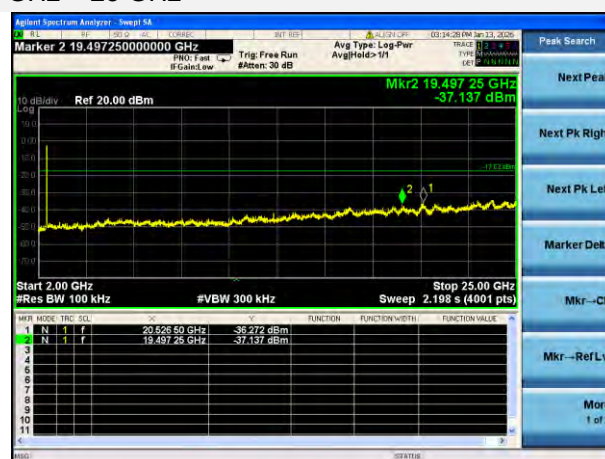
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



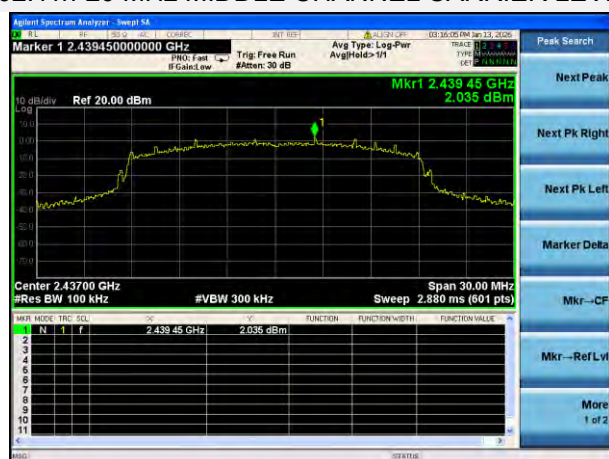
802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



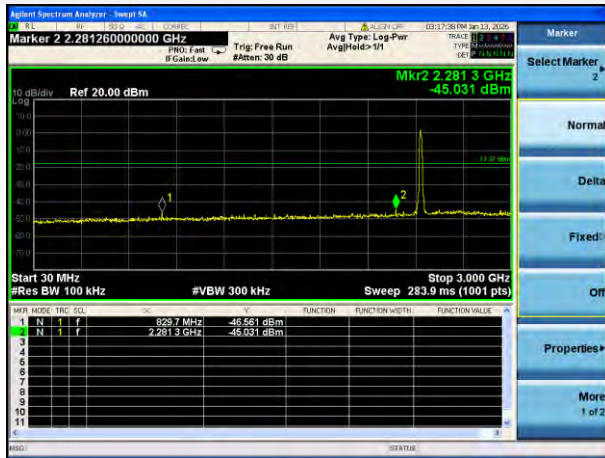
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

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

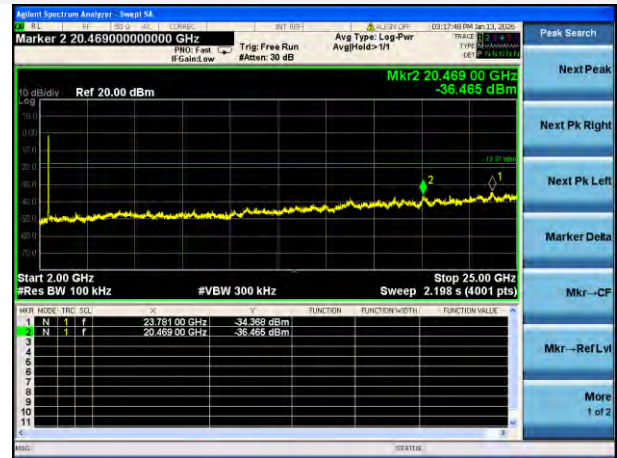
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



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



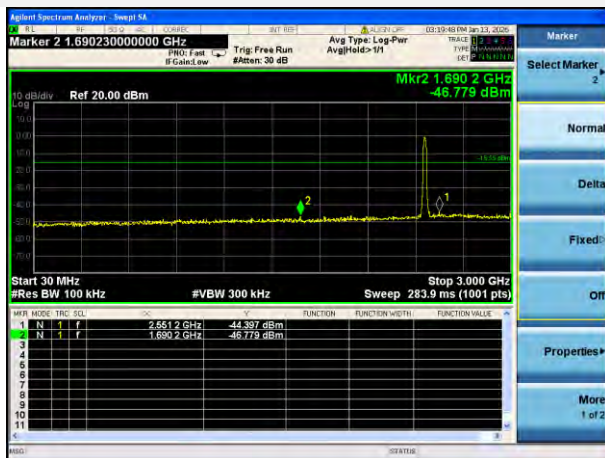
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



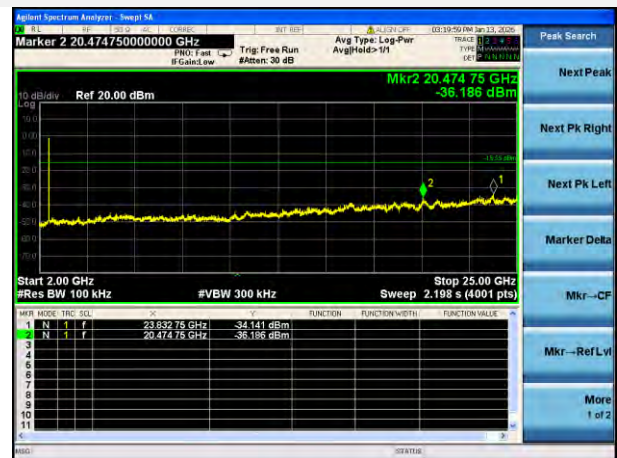
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



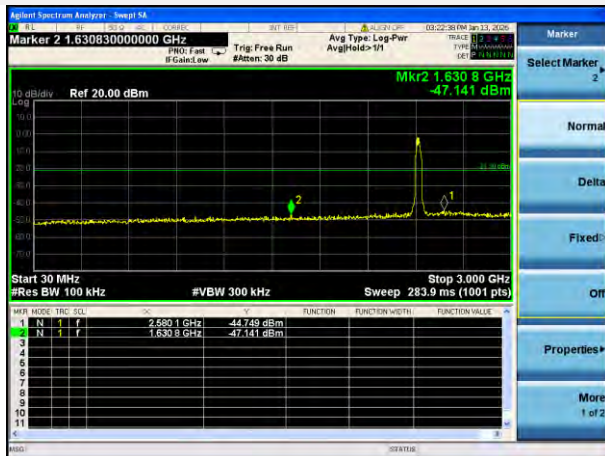
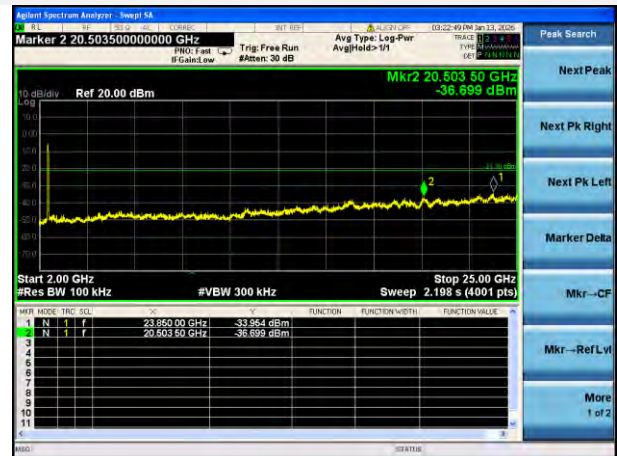
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



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



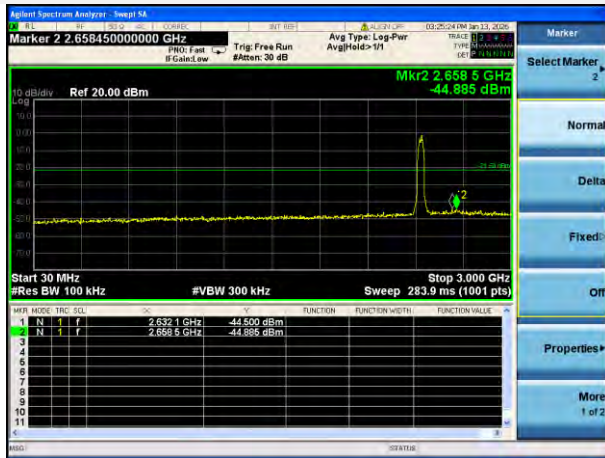
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

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

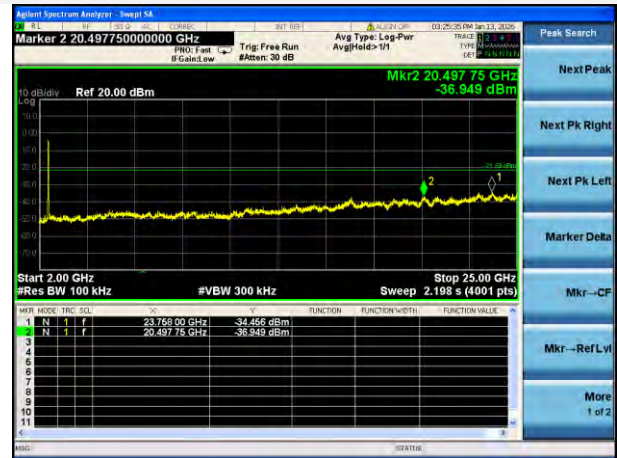
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



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



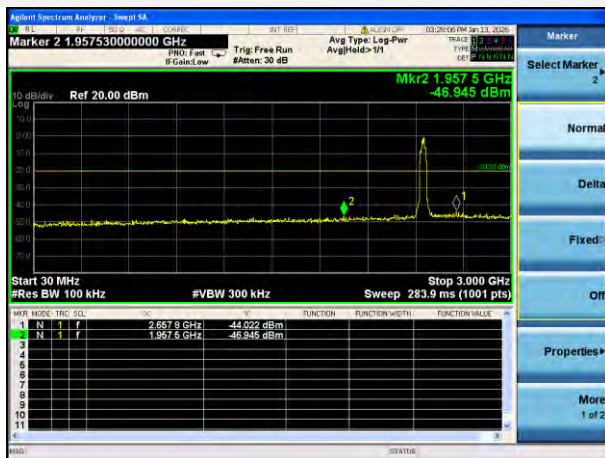
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



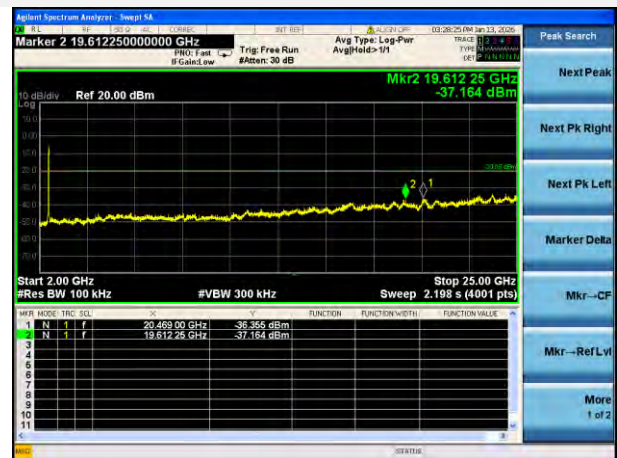
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



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



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



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

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

Test Data

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-37.31	4.31	-25.69	Pass
High Channel	-47.04	5.91	-24.09	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-33.80	2.81	-27.19	Pass
High Channel	-42.93	3.80	-26.20	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-34.08	2.38	-27.62	Pass
High Channel	-44.02	4.45	-25.55	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-36.46	-1.30	-31.30	Pass
High Channel	-41.70	-0.65	-30.65	Pass

Test Plots

802.11b LOW CHANNEL, CARRIER LEVEL



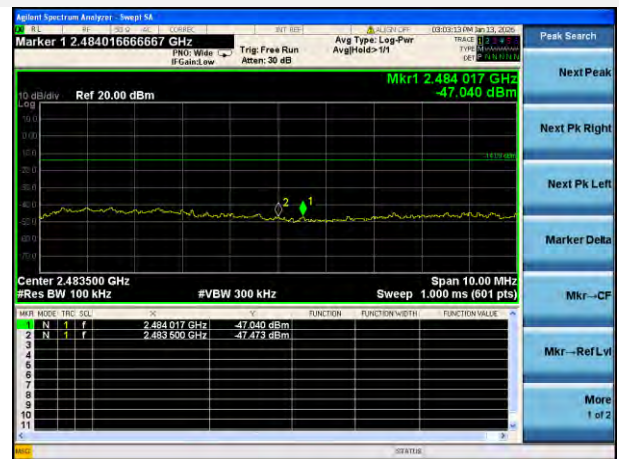
802.11b LOW CHANNEL, BAND EDGE



802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



802.11g LOW CHANNEL, CARRIER LEVEL



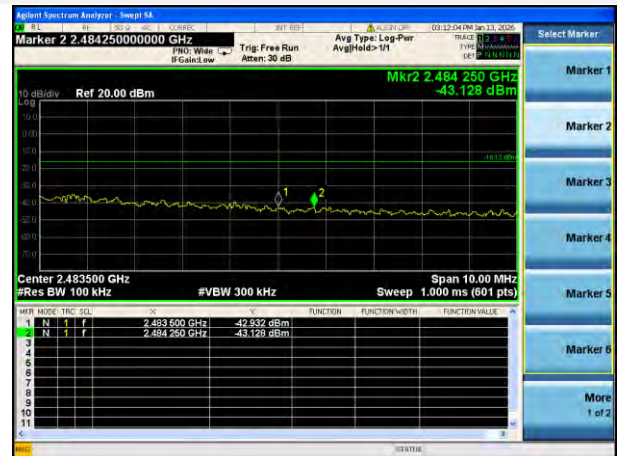
802.11g LOW CHANNEL, BAND EDGE



802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



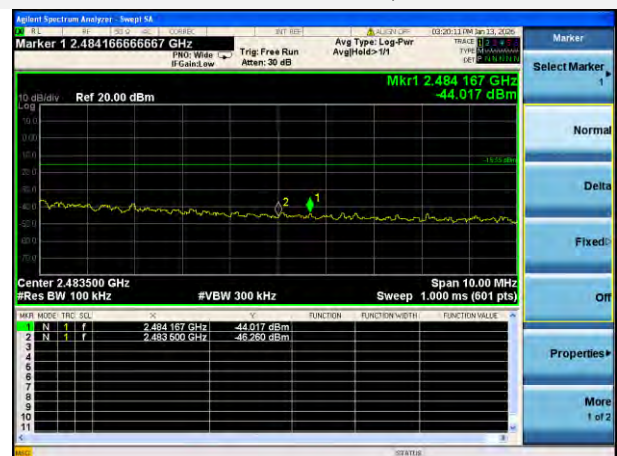
802.11n-20 MHz LOW CHANNEL, BAND EDGE



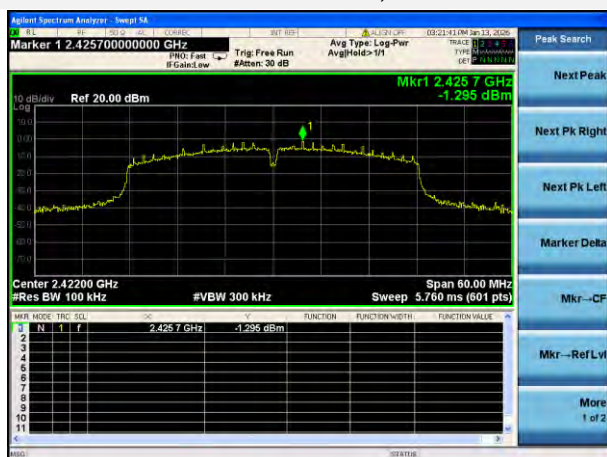
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



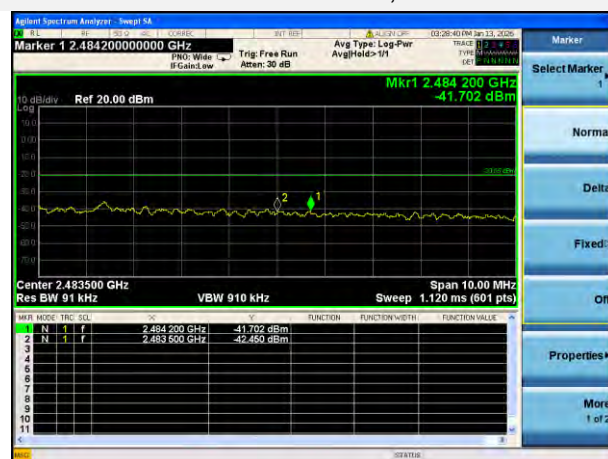
802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



A.5 Conducted Emissions

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

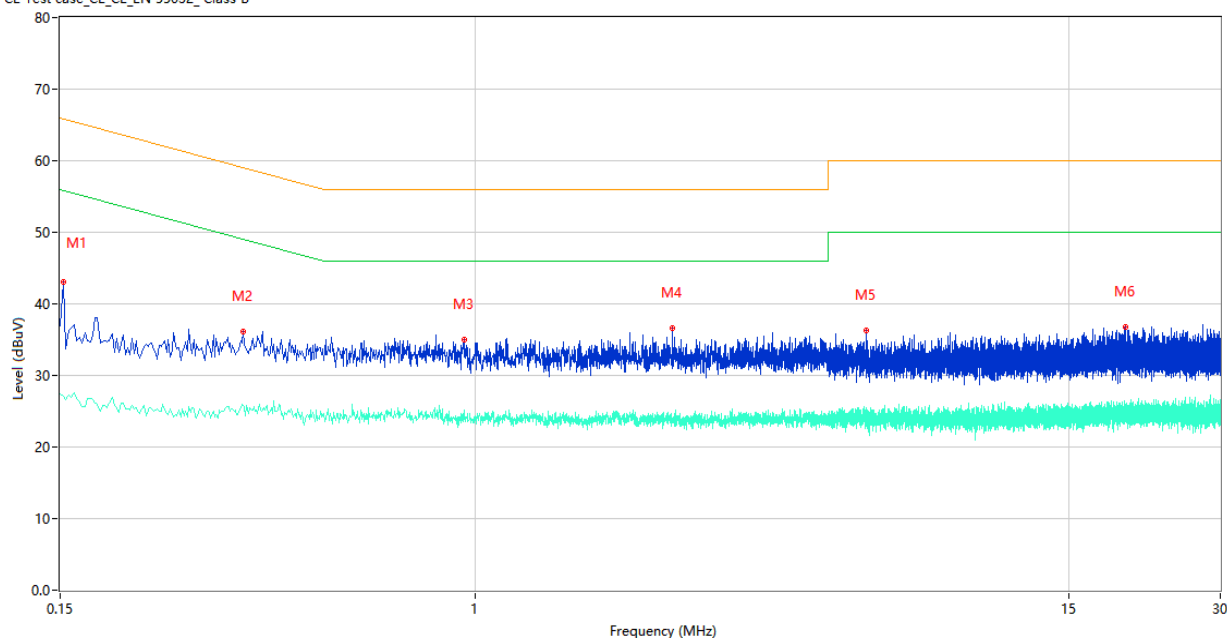
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

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

Test Data and Plots

PHASE L

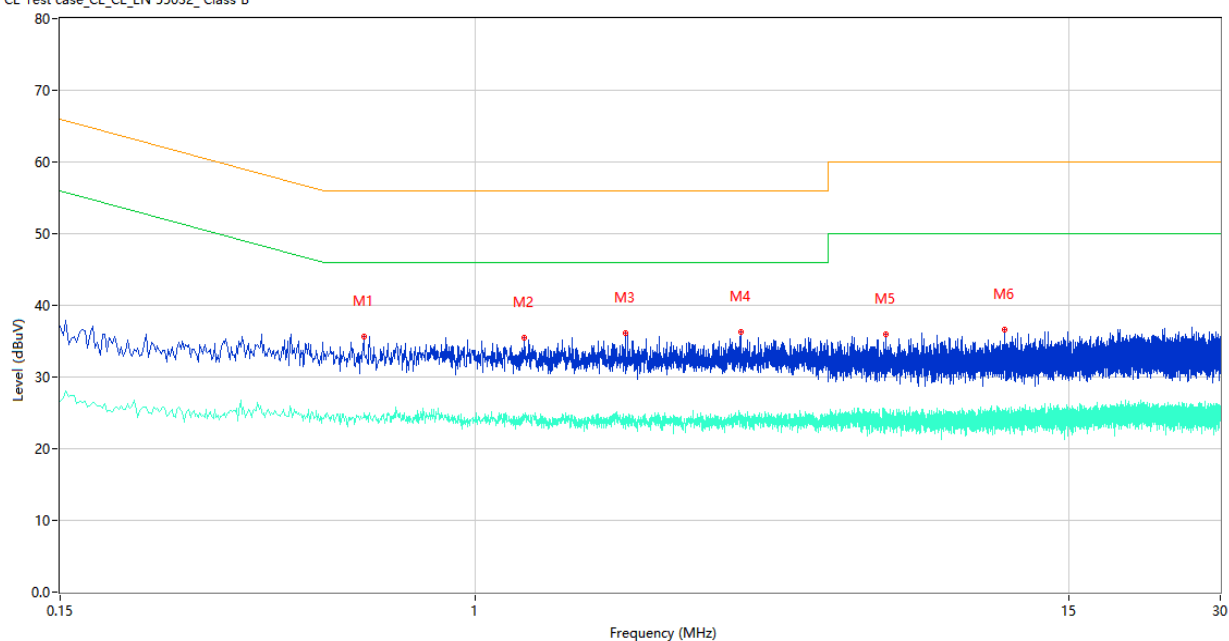
CE Test case_CE_CE_EN 55032_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	43.06	9.86	65.89	22.83	Peak	L	Pass
1**	0.152	27.11	9.86	55.89	28.78	AV	L	Pass
2	0.346	36.20	10.74	59.06	22.86	Peak	L	Pass
2**	0.346	25.73	10.74	49.06	23.33	AV	L	Pass
3	0.948	35.04	10.13	56.00	20.96	Peak	L	Pass
3**	0.948	25.15	10.13	46.00	20.85	AV	L	Pass
4	2.460	36.63	10.23	56.00	19.37	Peak	L	Pass
4**	2.460	23.43	10.23	46.00	22.57	AV	L	Pass
5	5.970	36.30	10.35	60.00	23.70	Peak	L	Pass
5**	5.970	24.13	10.35	50.00	25.87	AV	L	Pass
6	19.442	36.84	11.08	60.00	23.16	Peak	L	Pass
6**	19.442	24.30	11.08	50.00	25.70	AV	L	Pass

PHASE N

CE Test case_CE_EN 55032_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.600	35.62	10.22	56.00	20.38	Peak	N	Pass
1**	0.600	24.32	10.22	46.00	21.68	AV	N	Pass
2	1.248	35.52	10.49	56.00	20.48	Peak	N	Pass
2**	1.248	24.20	10.49	46.00	21.80	AV	N	Pass
3	1.980	36.16	10.25	56.00	19.84	Peak	N	Pass
3**	1.980	24.48	10.25	46.00	21.52	AV	N	Pass
4	3.362	36.37	10.42	56.00	19.63	Peak	N	Pass
4**	3.362	24.22	10.42	46.00	21.78	AV	N	Pass
5	6.498	35.93	10.20	60.00	24.07	Peak	N	Pass
5**	6.498	24.31	10.20	50.00	25.69	AV	N	Pass
6	11.182	36.61	10.75	60.00	23.39	Peak	N	Pass
6**	11.182	25.25	10.75	50.00	24.75	AV	N	Pass

A.6 Radiated Emission

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

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

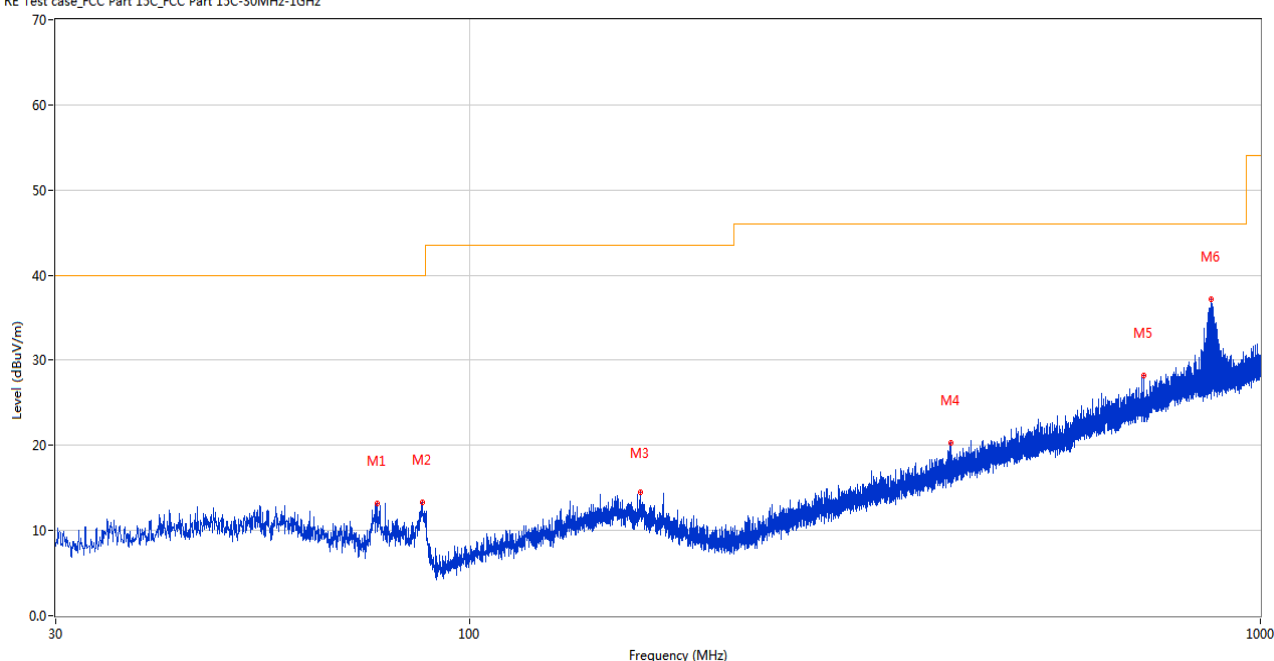
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

Test Data and Plots

30 MHz to 1 GHz, ANT H

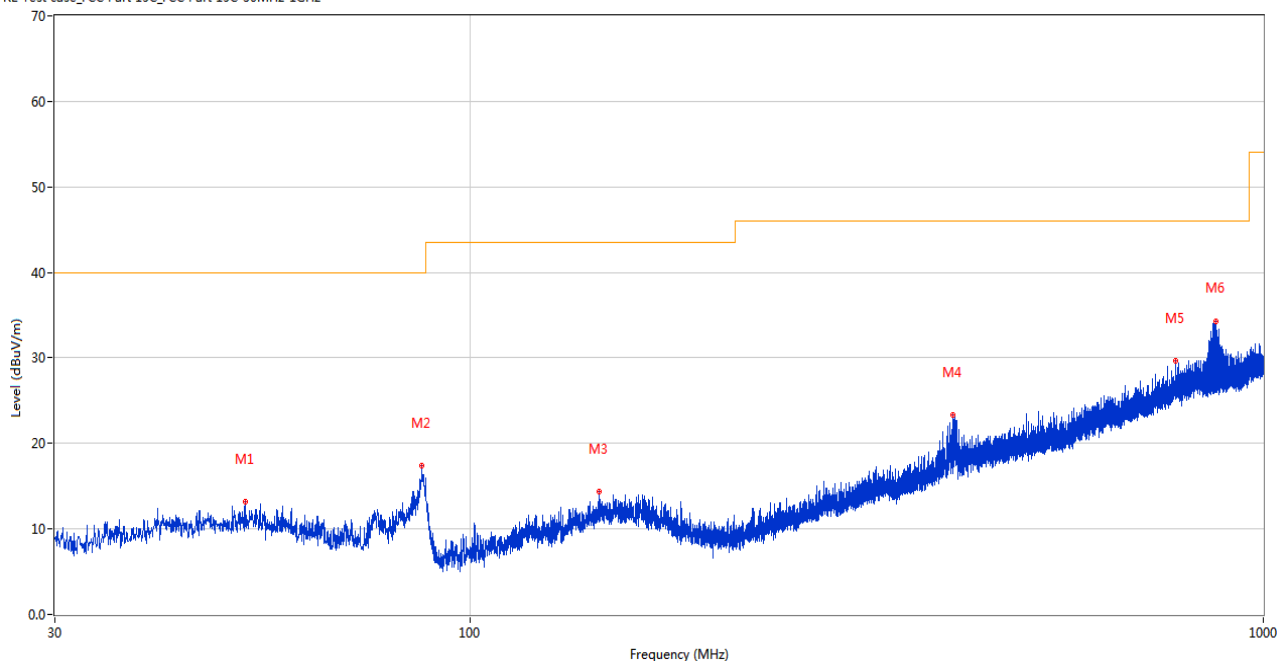
RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	76.414	13.24	-28.28	40.0	26.76	Peak	55.00	0	Horizontal	Pass
2	87.230	13.35	-30.37	40.0	26.65	Peak	176.00	0	Horizontal	Pass
3	164.393	14.46	-24.07	43.5	29.04	Peak	300.00	0	Horizontal	Pass
4	406.506	20.24	-19.78	46.0	25.76	Peak	262.00	0	Horizontal	Pass
5	712.153	28.23	-12.32	46.0	17.77	Peak	349.00	0	Horizontal	Pass
6	866.334	37.14	-9.98	46.0	8.86	Peak	88.00	0	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



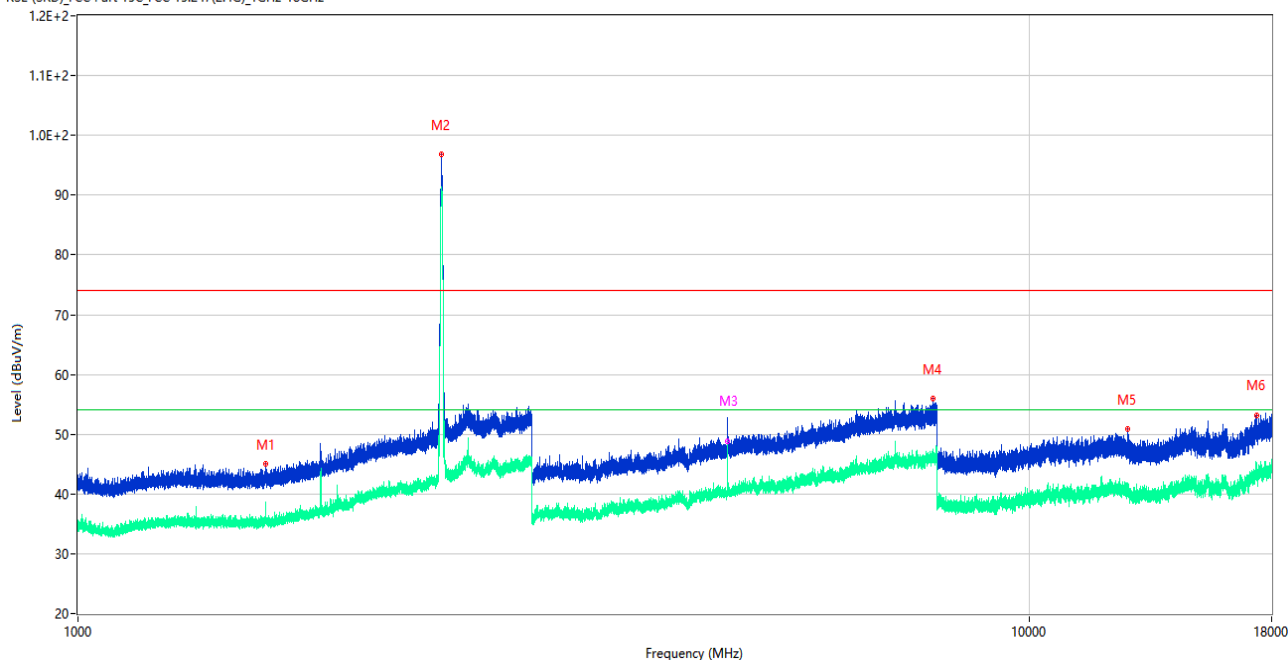
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.068	13.15	-25.10	40.0	26.85	Peak	248.00	0	Vertical	Pass
2	86.939	17.39	-30.34	40.0	22.61	Peak	115.00	0	Vertical	Pass
3	145.430	14.36	-24.38	43.5	29.14	Peak	0.00	0	Vertical	Pass
4	406.554	23.30	-19.78	46.0	22.70	Peak	226.00	0	Vertical	Pass
5	775.396	29.61	-10.18	46.0	16.39	Peak	243.00	0	Vertical	Pass
6	870.408	34.24	-9.75	46.0	11.76	Peak	11.00	0	Vertical	Pass

Note¹: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note²: The spurious above 18G is noise only, do not show on the report.

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

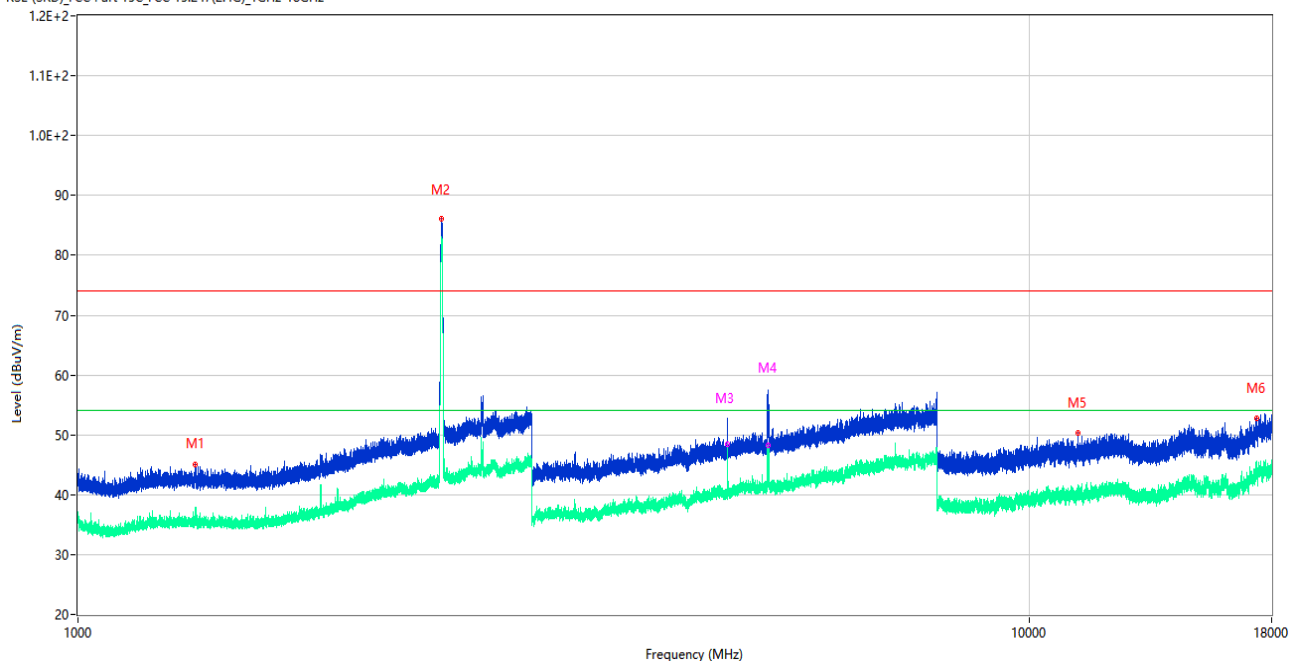
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1574.900	45.06	74.0	28.94	Peak	359.00	300	Horizontal	Pass
1**	1574.900	37.49	54.0	16.51	AV	359.00	300	Horizontal	Pass
2	2411.700	96.78	74.0	-22.78	Peak	301.00	200	Horizontal	N/A
2**	2411.700	91.06	54.0	-37.06	AV	301.00	200	Horizontal	N/A
3	4824.250	51.45	74.0	22.55	Peak	347.00	150	Horizontal	Pass
3**	4824.250	48.77	54.0	5.23	AV	347.00	150	Horizontal	Pass
4	7925.000	55.92	74.0	18.08	Peak	360.00	100	Horizontal	Pass
4**	7925.000	46.14	54.0	7.86	AV	360.00	100	Horizontal	Pass
5	12712.475	50.80	74.0	23.20	Peak	76.00	100	Horizontal	Pass
5**	12712.475	40.06	54.0	13.94	AV	76.00	100	Horizontal	Pass
6	17351.100	53.19	74.0	20.81	Peak	330.00	300	Horizontal	Pass
6**	17351.100	43.96	54.0	10.04	AV	330.00	300	Horizontal	Pass

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

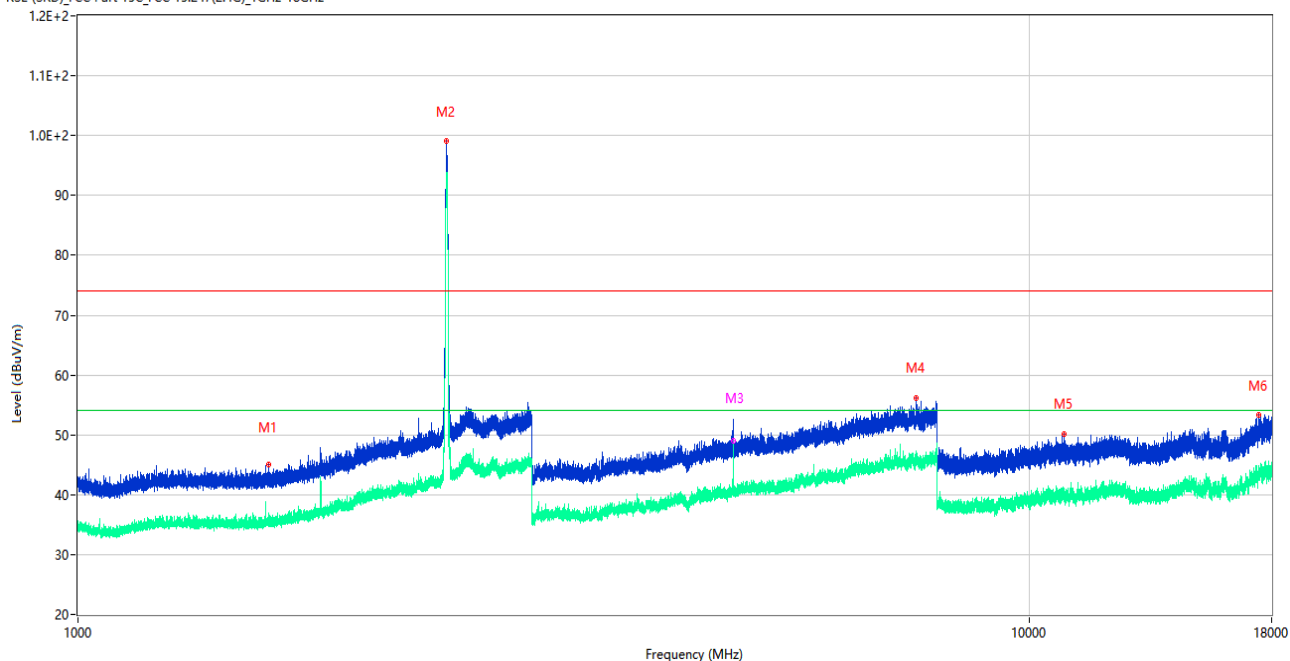
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.300	45.07	74.0	28.93	Peak	191.00	200	Vertical	Pass
1**	1329.300	35.86	54.0	18.14	AV	191.00	200	Vertical	Pass
2	2413.200	86.01	74.0	-12.01	Peak	250.00	100	Vertical	N/A
2**	2413.200	83.06	54.0	-29.06	AV	250.00	100	Vertical	N/A
3	4824.250	51.83	74.0	22.17	Peak	38.00	150	Vertical	Pass
3**	4824.250	48.53	54.0	5.47	AV	38.00	150	Vertical	Pass
4	5314.500	56.69	74.0	17.31	Peak	152.00	150	Vertical	Pass
4**	5314.500	48.27	54.0	5.73	AV	152.00	150	Vertical	Pass
5	11261.587	50.33	74.0	23.67	Peak	179.00	400	Vertical	Pass
5**	11261.587	40.85	54.0	13.15	AV	179.00	400	Vertical	Pass
6	17350.312	52.78	74.0	21.22	Peak	360.00	200	Vertical	Pass
6**	17350.312	43.83	54.0	10.17	AV	360.00	200	Vertical	Pass

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

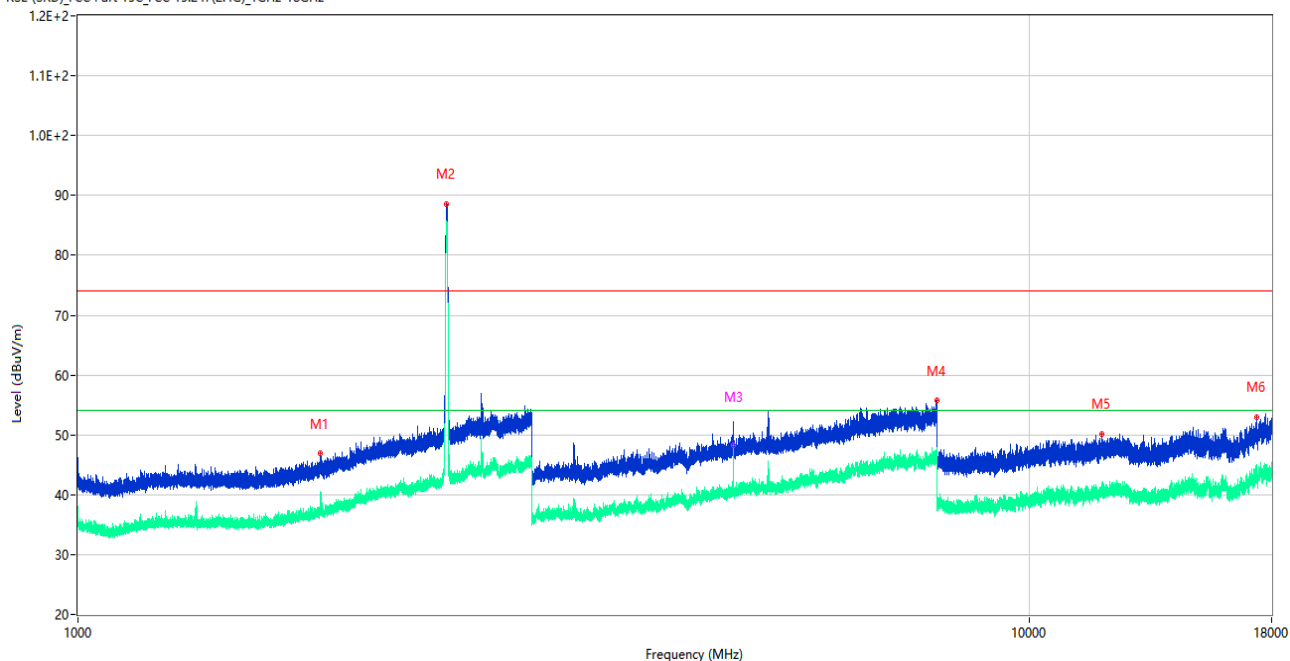
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1587.200	44.98	74.0	29.02	Peak	213.00	100	Horizontal	Pass
1**	1587.200	35.30	54.0	18.70	AV	213.00	100	Horizontal	Pass
2	2441.800	99.00	74.0	-25.00	Peak	274.00	150	Horizontal	N/A
2**	2441.800	92.99	54.0	-38.99	AV	274.00	150	Horizontal	N/A
3	4884.250	52.64	74.0	21.36	Peak	355.00	150	Horizontal	Pass
3**	4884.250	49.00	54.0	5.00	AV	355.00	150	Horizontal	Pass
4	7611.500	56.24	74.0	17.76	Peak	182.00	100	Horizontal	Pass
4**	7611.500	46.71	54.0	7.29	AV	182.00	100	Horizontal	Pass
5	10895.362	50.14	74.0	23.86	Peak	287.00	100	Horizontal	Pass
5**	10895.362	39.98	54.0	14.02	AV	287.00	100	Horizontal	Pass
6	17447.176	53.25	74.0	20.75	Peak	263.00	200	Horizontal	Pass
6**	17447.176	43.58	54.0	10.42	AV	263.00	200	Horizontal	Pass

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

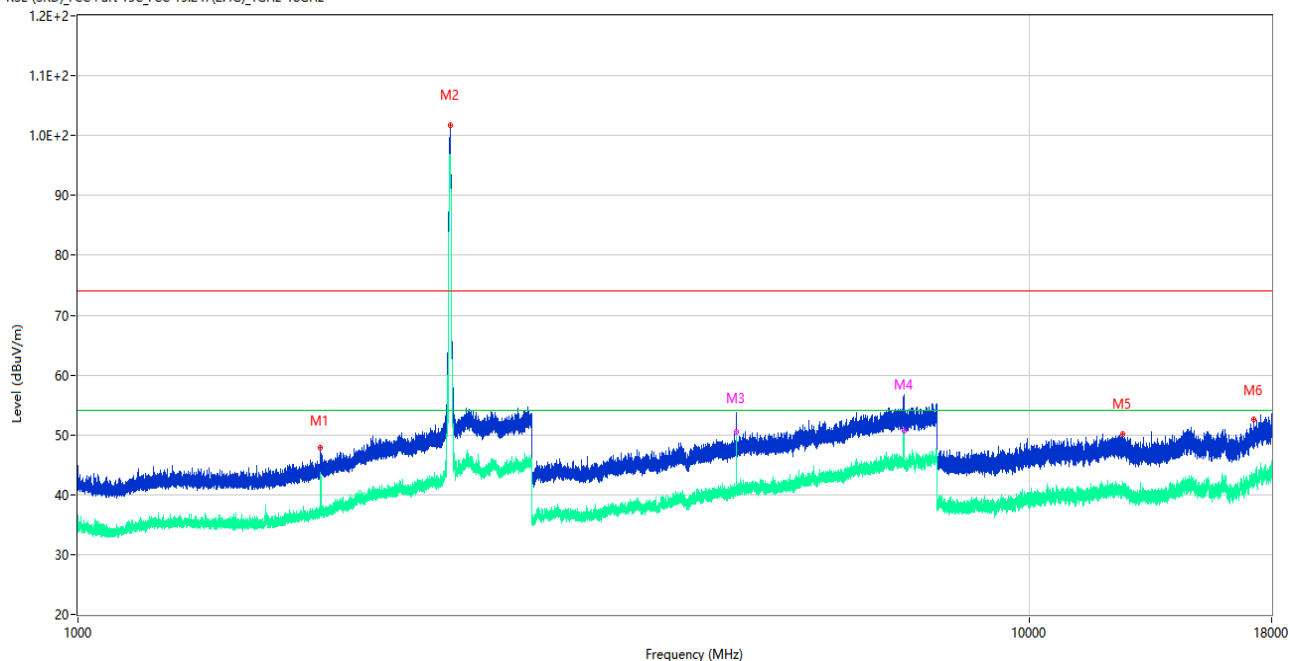
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1800.100	47.02	74.0	26.98	Peak	117.00	150	Vertical	Pass
1**	1800.100	40.16	54.0	13.84	AV	117.00	150	Vertical	Pass
2	2440.900	88.64	74.0	-14.64	Peak	184.00	100	Vertical	N/A
2**	2440.900	85.75	54.0	-31.75	AV	184.00	100	Vertical	N/A
3	4884.250	51.66	74.0	22.34	Peak	142.00	150	Vertical	Pass
3**	4884.250	48.34	54.0	5.66	AV	142.00	150	Vertical	Pass
4	7998.000	55.69	74.0	18.31	Peak	183.00	300	Vertical	Pass
4**	7998.000	46.49	54.0	7.51	AV	183.00	300	Vertical	Pass
5	11927.775	50.15	74.0	23.85	Peak	354.00	300	Vertical	Pass
5**	11927.775	41.08	54.0	12.92	AV	354.00	300	Vertical	Pass
6	17358.975	52.96	74.0	21.04	Peak	224.00	200	Vertical	Pass
6**	17358.975	43.34	54.0	10.66	AV	224.00	200	Vertical	Pass

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

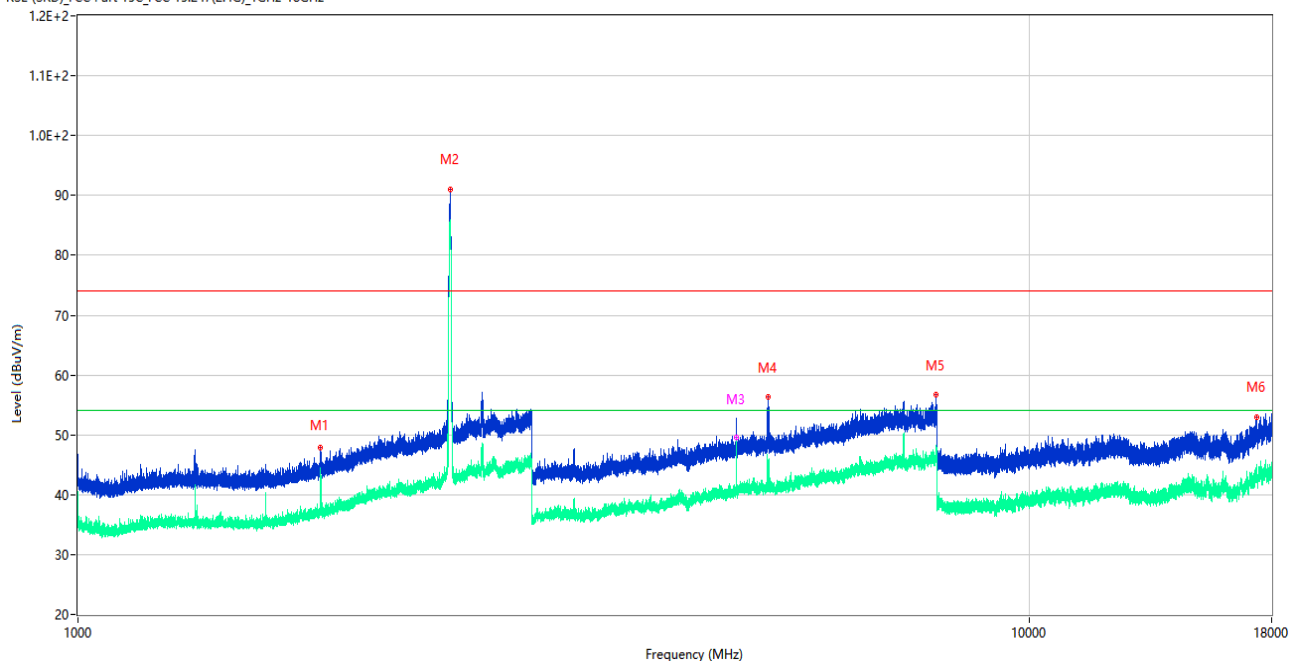
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1799.700	47.94	74.0	26.06	Peak	168.00	150	Horizontal	Pass
1**	1799.700	41.55	54.0	12.45	AV	168.00	150	Horizontal	Pass
2	2462.300	101.80	74.0	-27.80	Peak	287.00	200	Horizontal	N/A
2**	2462.300	96.01	54.0	-42.01	AV	287.00	200	Horizontal	N/A
3	4924.250	53.25	74.0	20.75	Peak	360.00	150	Horizontal	Pass
3**	4924.250	50.56	54.0	3.44	AV	360.00	150	Horizontal	Pass
4	7386.750	55.59	74.0	18.41	Peak	360.00	150	Horizontal	Pass
4**	7386.750	50.61	54.0	3.39	AV	360.00	150	Horizontal	Pass
5	12543.375	50.16	74.0	23.84	Peak	169.00	400	Horizontal	Pass
5**	12543.375	40.64	54.0	13.36	AV	169.00	400	Horizontal	Pass
6	17253.974	52.49	74.0	21.51	Peak	217.00	300	Horizontal	Pass
6**	17253.974	42.79	54.0	11.21	AV	217.00	300	Horizontal	Pass

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

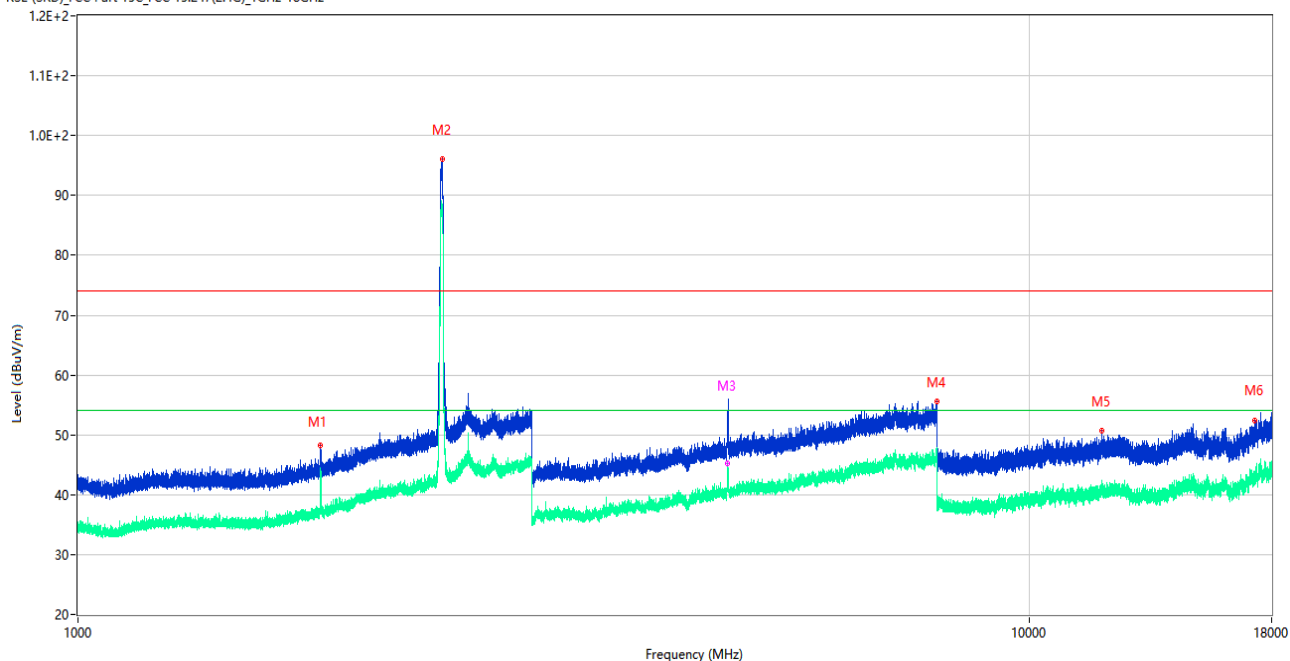
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1799.800	47.83	74.0	26.17	Peak	355.00	150	Vertical	Pass
1**	1799.800	42.07	54.0	11.93	AV	355.00	150	Vertical	Pass
2	2461.800	91.03	74.0	-17.03	Peak	199.00	200	Vertical	N/A
2**	2461.800	85.08	54.0	-31.08	AV	199.00	200	Vertical	N/A
3	4924.250	52.35	74.0	21.65	Peak	142.00	150	Vertical	Pass
3**	4924.250	49.49	54.0	4.51	AV	142.00	150	Vertical	Pass
4	5313.250	56.40	74.0	17.60	Peak	132.00	150	Vertical	Pass
4**	5313.250	41.26	54.0	12.74	AV	132.00	150	Vertical	Pass
5	7983.250	56.70	74.0	17.30	Peak	182.00	200	Vertical	Pass
5**	7983.250	46.71	54.0	7.29	AV	182.00	200	Vertical	Pass
6	17343.750	52.98	74.0	21.02	Peak	360.00	400	Vertical	Pass
6**	17343.750	44.49	54.0	9.51	AV	360.00	400	Vertical	Pass

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

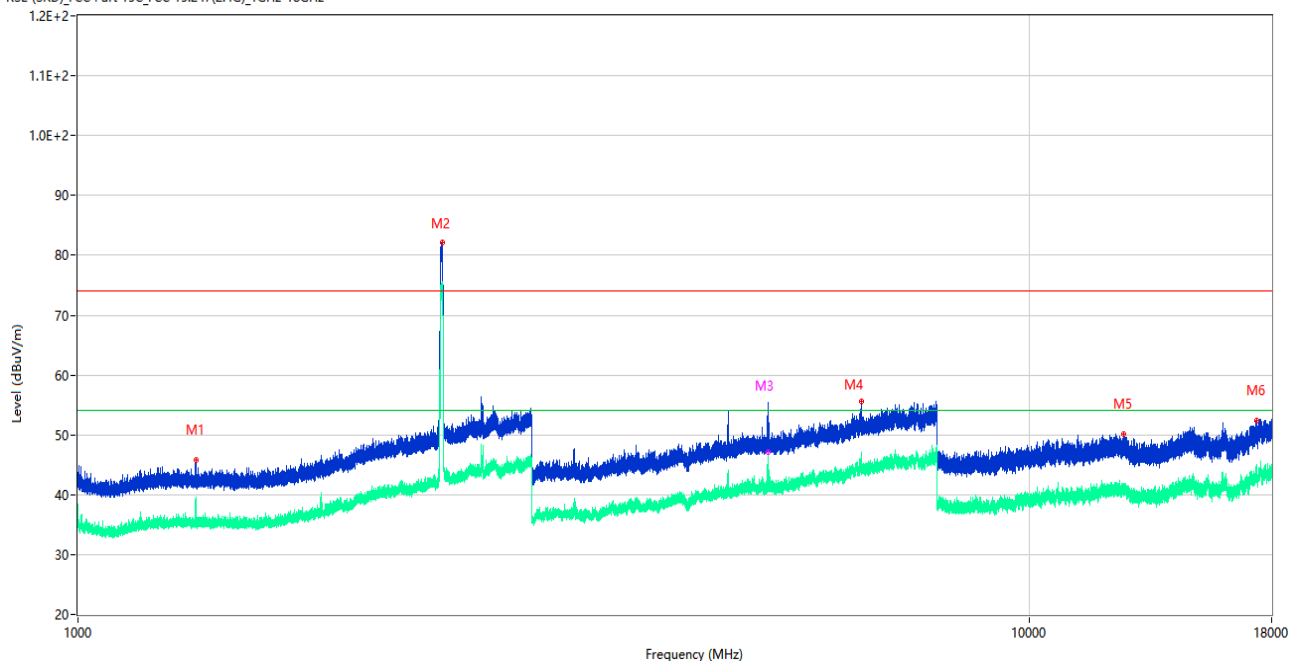
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1800.000	48.27	74.0	25.73	Peak	316.00	150	Horizontal	Pass
1**	1800.000	43.44	54.0	10.56	AV	316.00	150	Horizontal	Pass
2	2415.000	95.99	74.0	-21.99	Peak	310.00	200	Horizontal	N/A
2**	2415.000	88.09	54.0	-34.09	AV	310.00	200	Horizontal	N/A
3	4824.000	52.88	74.0	21.12	Peak	348.00	150	Horizontal	Pass
3**	4824.000	45.21	54.0	8.79	AV	348.00	150	Horizontal	Pass
4	7998.750	55.67	74.0	18.33	Peak	96.00	100	Horizontal	Pass
4**	7998.750	46.93	54.0	7.07	AV	96.00	100	Horizontal	Pass
5	11932.287	50.67	74.0	23.33	Peak	39.00	300	Horizontal	Pass
5**	11932.287	40.32	54.0	13.68	AV	39.00	300	Horizontal	Pass
6	17286.525	52.46	74.0	21.54	Peak	207.00	200	Horizontal	Pass
6**	17286.525	43.11	54.0	10.89	AV	207.00	200	Horizontal	Pass

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

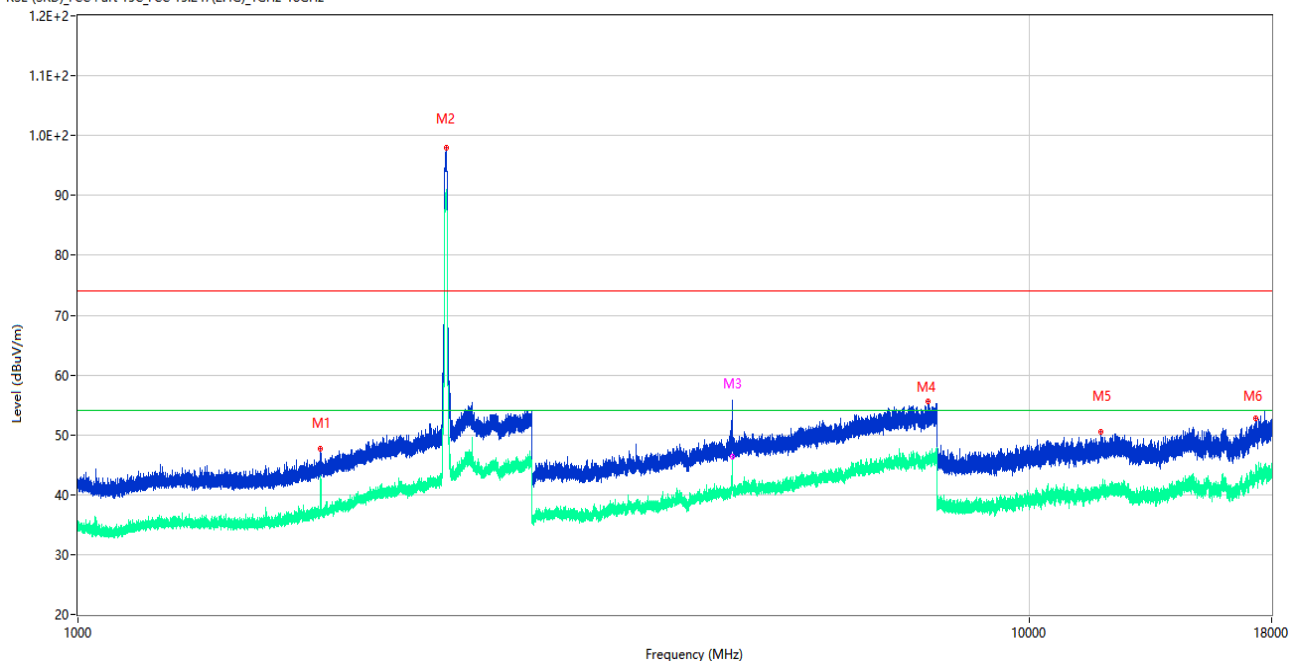
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.000	45.82	74.0	28.18	Peak	197.00	200	Vertical	Pass
1**	1330.000	36.29	54.0	17.71	AV	197.00	200	Vertical	Pass
2	2414.700	82.24	74.0	-8.24	Peak	243.00	150	Vertical	N/A
2**	2414.700	75.30	54.0	-21.30	AV	243.00	150	Vertical	N/A
3	5314.750	55.46	74.0	18.54	Peak	147.00	150	Vertical	Pass
3**	5314.750	47.09	54.0	6.91	AV	147.00	150	Vertical	Pass
4	6663.000	55.54	74.0	18.46	Peak	126.00	400	Vertical	Pass
4**	6663.000	44.44	54.0	9.56	AV	126.00	400	Vertical	Pass
5	12567.599	50.16	74.0	23.84	Peak	111.00	100	Vertical	Pass
5**	12567.599	40.56	54.0	13.44	AV	111.00	100	Vertical	Pass
6	17360.550	52.48	74.0	21.52	Peak	192.00	300	Vertical	Pass
6**	17360.550	44.47	54.0	9.53	AV	192.00	300	Vertical	Pass

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

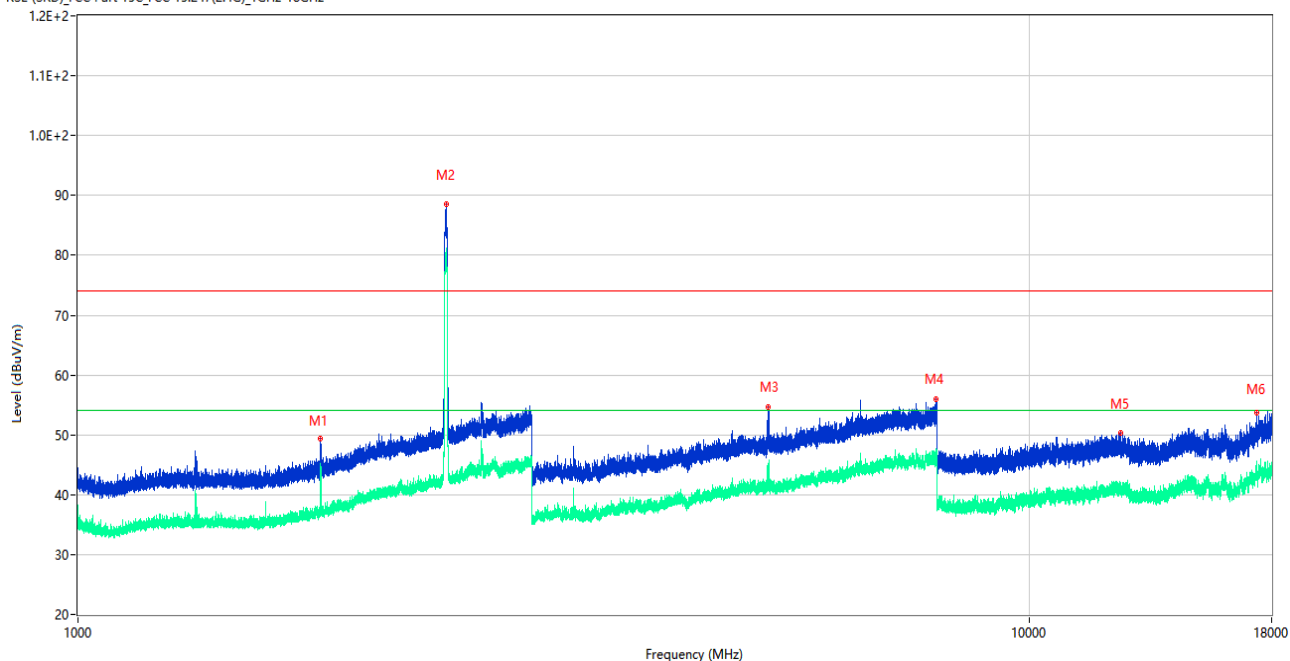
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1800.000	47.66	74.0	26.34	Peak	73.00	150	Horizontal	Pass
1**	1800.000	42.26	54.0	11.74	AV	73.00	150	Horizontal	Pass
2	2440.000	97.88	74.0	-23.88	Peak	313.00	150	Horizontal	N/A
2**	2440.000	90.02	54.0	-36.02	AV	313.00	150	Horizontal	N/A
3	4876.500	52.01	74.0	21.99	Peak	356.00	150	Horizontal	Pass
3**	4876.500	46.29	54.0	7.71	AV	356.00	150	Horizontal	Pass
4	7827.750	55.53	74.0	18.47	Peak	108.00	300	Horizontal	Pass
4**	7827.750	45.62	54.0	8.38	AV	108.00	300	Horizontal	Pass
5	11905.688	50.48	74.0	23.52	Peak	0.00	300	Horizontal	Pass
5**	11905.688	40.08	54.0	13.92	AV	0.00	300	Horizontal	Pass
6	17337.188	52.78	74.0	21.22	Peak	160.00	200	Horizontal	Pass
6**	17337.188	43.45	54.0	10.55	AV	160.00	200	Horizontal	Pass

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

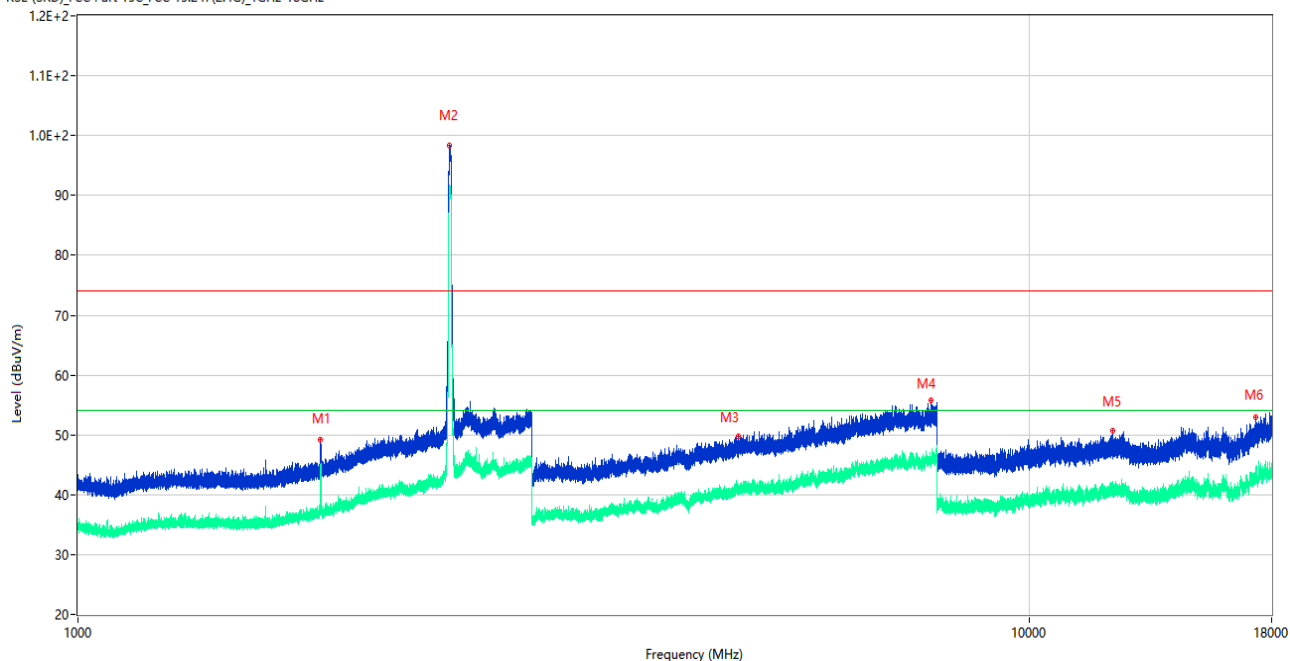
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1800.000	49.39	74.0	24.61	Peak	184.00	150	Vertical	Pass
1**	1800.000	45.18	54.0	8.82	AV	184.00	150	Vertical	Pass
2	2439.600	88.48	74.0	-14.48	Peak	184.00	200	Vertical	N/A
2**	2439.600	80.10	54.0	-26.10	AV	184.00	200	Vertical	N/A
3	5324.000	54.70	74.0	19.30	Peak	137.00	150	Vertical	Pass
3**	5324.000	41.08	54.0	12.92	AV	137.00	150	Vertical	Pass
4	7987.000	55.92	74.0	18.08	Peak	116.00	400	Vertical	Pass
4**	7987.000	45.90	54.0	8.10	AV	116.00	400	Vertical	Pass
5	12496.825	50.30	74.0	23.70	Peak	345.00	200	Vertical	Pass
5**	12496.825	40.31	54.0	13.69	AV	345.00	200	Vertical	Pass
6	17346.114	53.68	74.0	20.32	Peak	88.00	100	Vertical	Pass
6**	17346.114	44.00	54.0	10.00	AV	88.00	100	Vertical	Pass

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

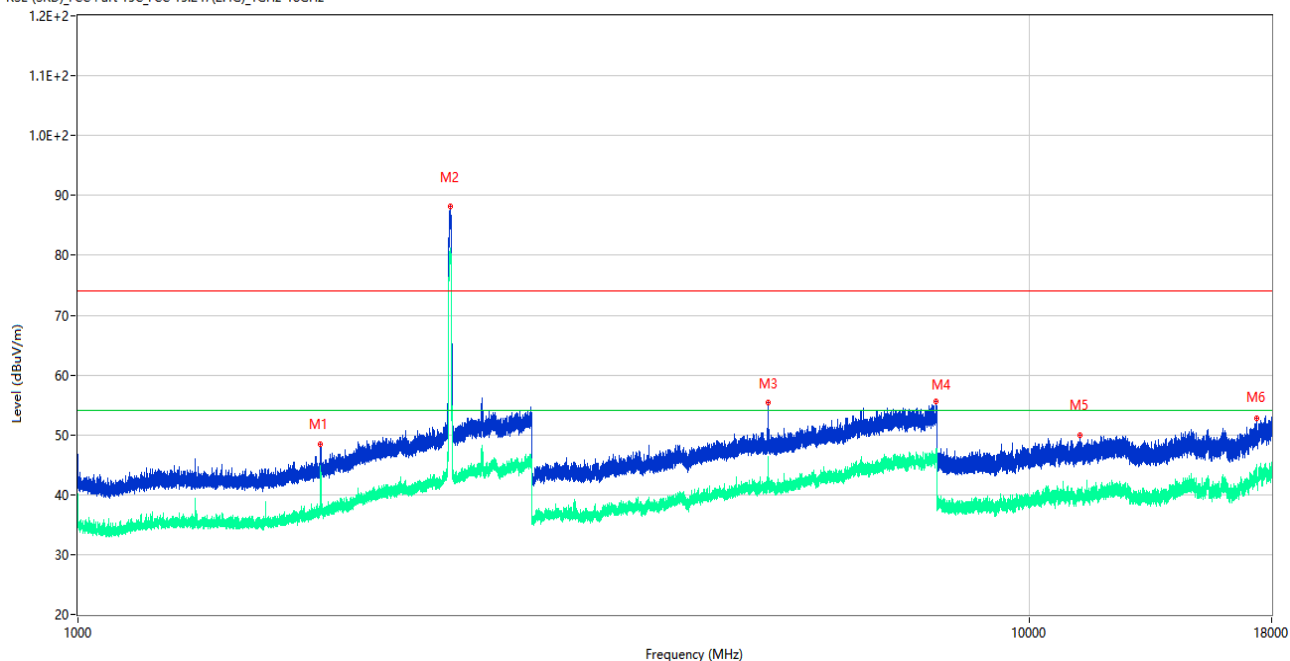
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1800.200	49.21	74.0	24.79	Peak	0.00	150	Horizontal	Pass
1**	1800.200	44.11	54.0	9.89	AV	0.00	150	Horizontal	Pass
2	2459.800	98.42	74.0	-24.42	Peak	318.00	100	Horizontal	N/A
2**	2459.800	91.04	54.0	-37.04	AV	318.00	100	Horizontal	N/A
3	4951.750	49.83	74.0	24.17	Peak	360.00	100	Horizontal	Pass
3**	4951.750	40.75	54.0	13.25	AV	360.00	100	Horizontal	Pass
4	7890.750	55.82	74.0	18.18	Peak	39.00	400	Horizontal	Pass
4**	7890.750	45.87	54.0	8.13	AV	39.00	400	Horizontal	Pass
5	12264.313	50.68	74.0	23.32	Peak	128.00	300	Horizontal	Pass
5**	12264.313	40.36	54.0	13.64	AV	128.00	300	Horizontal	Pass
6	17305.688	52.87	74.0	21.13	Peak	2.00	400	Horizontal	Pass
6**	17305.688	42.95	54.0	11.05	AV	2.00	400	Horizontal	Pass

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

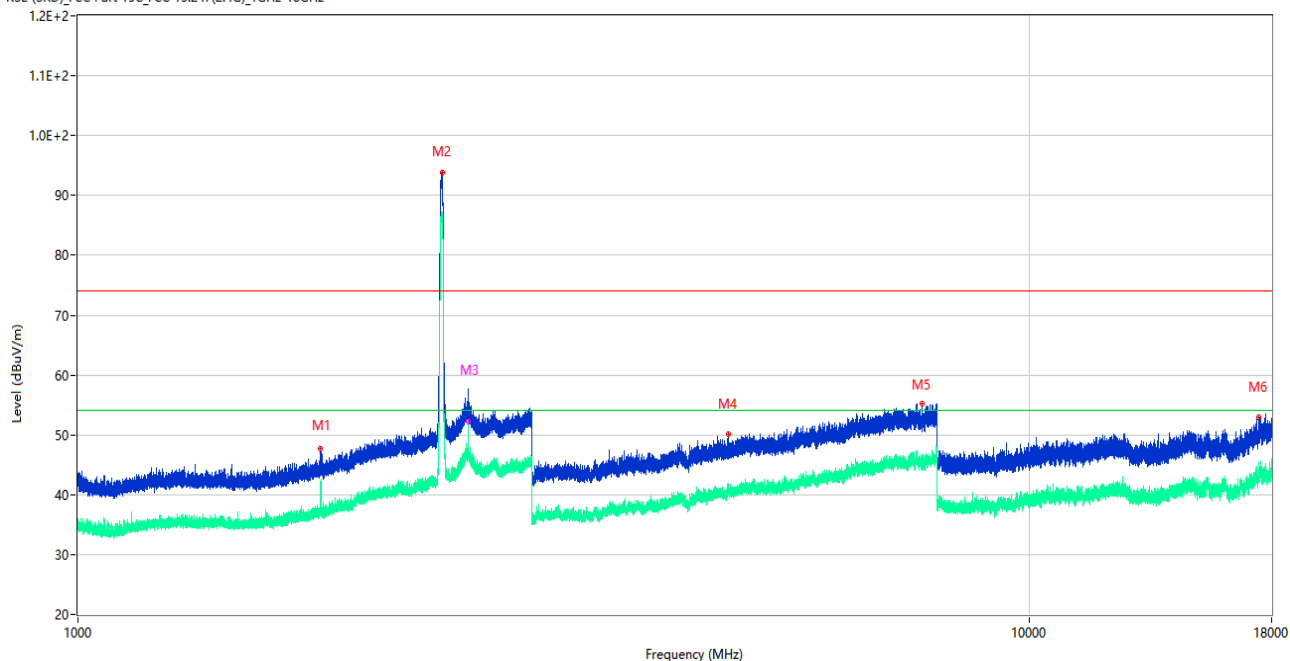
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1799.700	48.38	74.0	25.62	Peak	318.00	150	Vertical	Pass
1**	1799.700	43.58	54.0	10.42	AV	318.00	150	Vertical	Pass
2	2464.600	88.11	74.0	-14.11	Peak	243.00	150	Vertical	N/A
2**	2464.600	80.37	54.0	-26.37	AV	243.00	150	Vertical	N/A
3	5314.000	55.47	74.0	18.53	Peak	132.00	150	Vertical	Pass
3**	5314.000	41.50	54.0	12.50	AV	132.00	150	Vertical	Pass
4	7992.750	55.57	74.0	18.43	Peak	152.00	300	Vertical	Pass
4**	7992.750	46.75	54.0	7.25	AV	152.00	300	Vertical	Pass
5	11324.049	50.03	74.0	23.97	Peak	147.00	400	Vertical	Pass
5**	11324.049	40.73	54.0	13.27	AV	147.00	400	Vertical	Pass
6	17354.512	52.81	74.0	21.19	Peak	135.00	400	Vertical	Pass
6**	17354.512	44.41	54.0	9.59	AV	135.00	400	Vertical	Pass

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

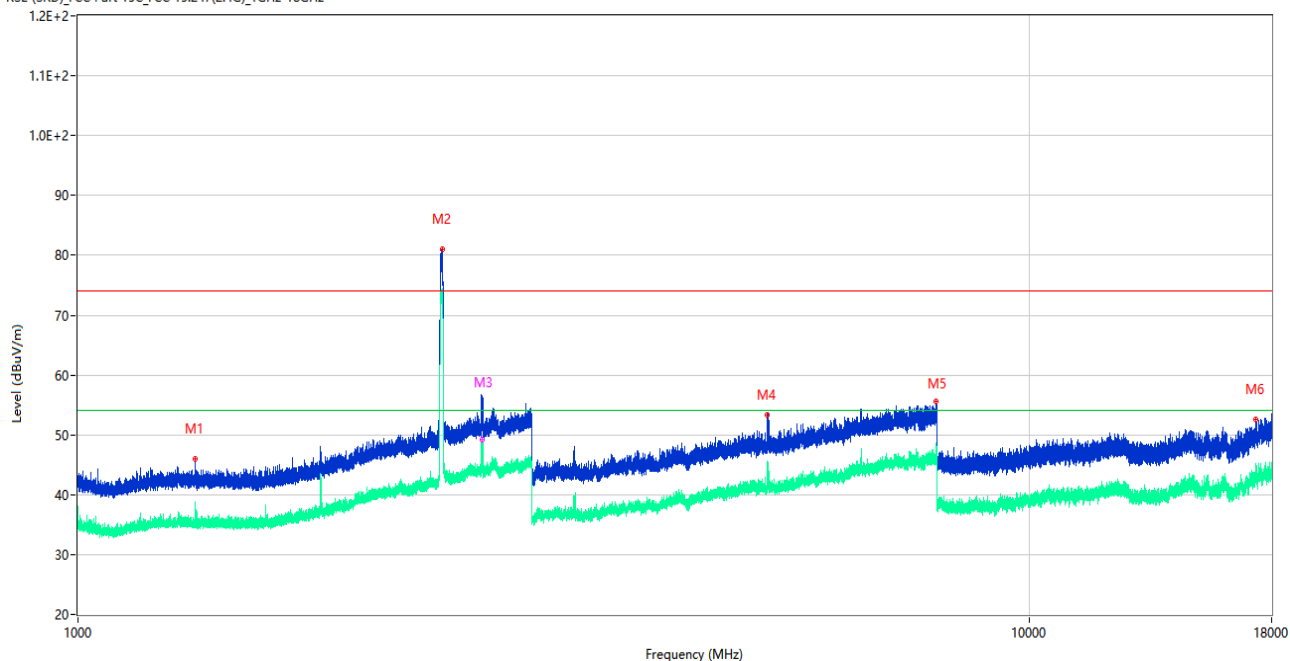
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1800.100	47.68	74.0	26.32	Peak	2.00	150	Horizontal	Pass
1**	1800.100	41.77	54.0	12.23	AV	2.00	150	Horizontal	Pass
2	2415.700	93.87	74.0	-19.87	Peak	302.00	150	Horizontal	N/A
2**	2415.700	87.13	54.0	-33.13	AV	302.00	150	Horizontal	N/A
3	2572.100	56.61	74.0	17.39	Peak	302.00	150	Horizontal	Pass
3**	2572.100	52.23	54.0	1.77	AV	302.00	150	Horizontal	Pass
4	4826.000	50.16	74.0	23.84	Peak	355.00	150	Horizontal	Pass
4**	4826.000	41.43	54.0	12.57	AV	355.00	150	Horizontal	Pass
5	7727.250	55.30	74.0	18.70	Peak	355.00	100	Horizontal	Pass
5**	7727.250	44.95	54.0	9.05	AV	355.00	100	Horizontal	Pass
6	17464.500	52.98	74.0	21.02	Peak	339.00	200	Horizontal	Pass
6**	17464.500	43.33	54.0	10.67	AV	339.00	200	Horizontal	Pass

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

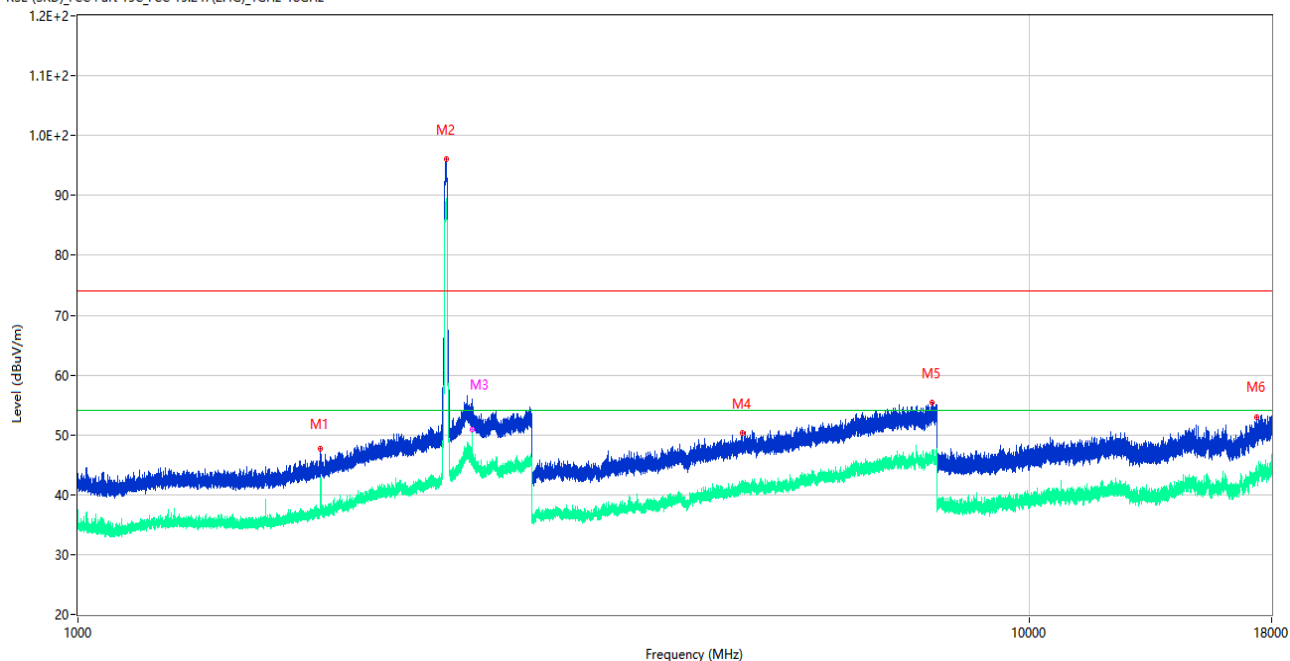
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.300	46.00	74.0	28.00	Peak	138.00	100	Vertical	Pass
1**	1329.300	37.90	54.0	16.10	AV	138.00	100	Vertical	Pass
2	2414.400	81.07	74.0	-7.07	Peak	243.00	100	Vertical	N/A
2**	2414.400	74.02	54.0	-20.02	AV	243.00	100	Vertical	N/A
3	2661.700	56.00	74.0	18.00	Peak	266.00	150	Vertical	Pass
3**	2661.700	49.18	54.0	4.82	AV	266.00	150	Vertical	Pass
4	5308.750	53.36	74.0	20.64	Peak	156.00	150	Vertical	Pass
4**	5308.750	45.14	54.0	8.86	AV	156.00	150	Vertical	Pass
5	7991.000	55.62	74.0	18.38	Peak	187.00	100	Vertical	Pass
5**	7991.000	47.02	54.0	6.98	AV	187.00	100	Vertical	Pass
6	17339.812	52.61	74.0	21.39	Peak	340.00	200	Vertical	Pass
6**	17339.812	43.35	54.0	10.65	AV	340.00	200	Vertical	Pass

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

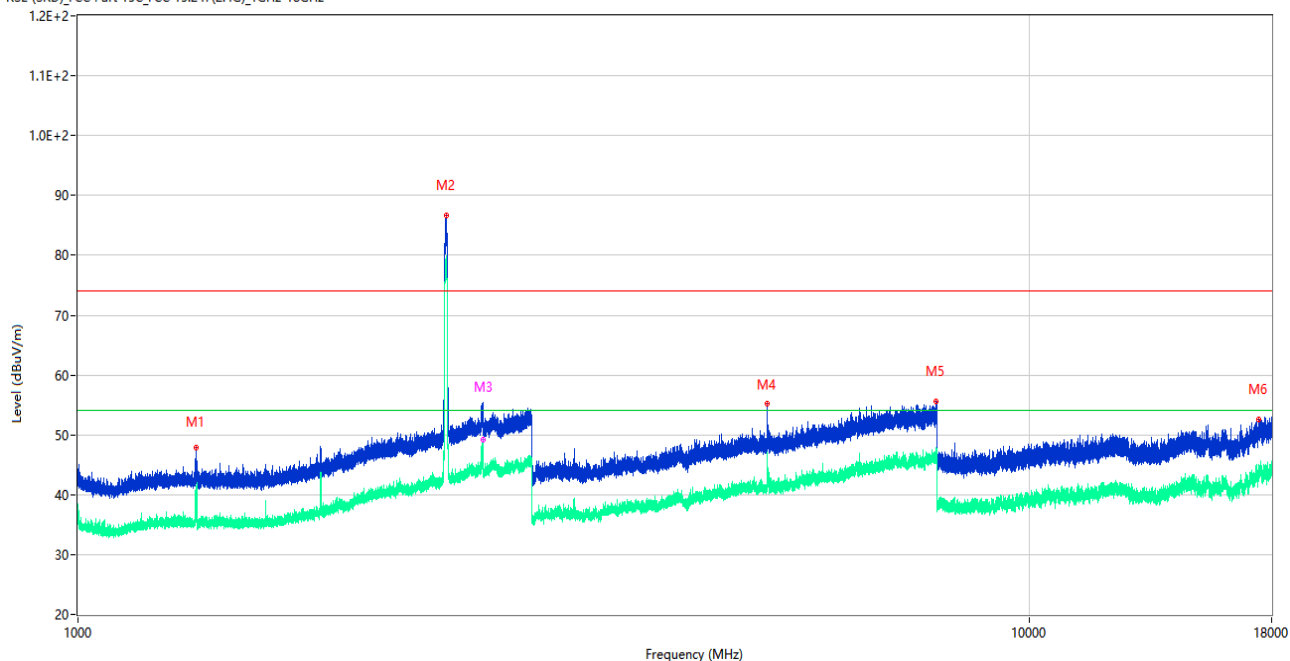
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1799.900	47.62	74.0	26.38	Peak	75.00	150	Horizontal	Pass
1**	1799.900	42.00	54.0	12.00	AV	75.00	150	Horizontal	Pass
2	2439.200	96.02	74.0	-22.02	Peak	321.00	150	Horizontal	N/A
2**	2439.200	89.12	54.0	-35.12	AV	321.00	150	Horizontal	N/A
3	2597.100	55.00	74.0	19.00	Peak	321.00	150	Horizontal	Pass
3**	2597.100	50.96	54.0	3.04	AV	321.00	150	Horizontal	Pass
4	4991.000	50.26	74.0	23.74	Peak	344.00	150	Horizontal	Pass
4**	4991.000	41.03	54.0	12.97	AV	344.00	150	Horizontal	Pass
5	7917.000	55.39	74.0	18.61	Peak	138.00	200	Horizontal	Pass
5**	7917.000	46.27	54.0	7.73	AV	138.00	200	Horizontal	Pass
6	17365.275	53.00	74.0	21.00	Peak	360.00	400	Horizontal	Pass
6**	17365.275	44.29	54.0	9.71	AV	360.00	400	Horizontal	Pass

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

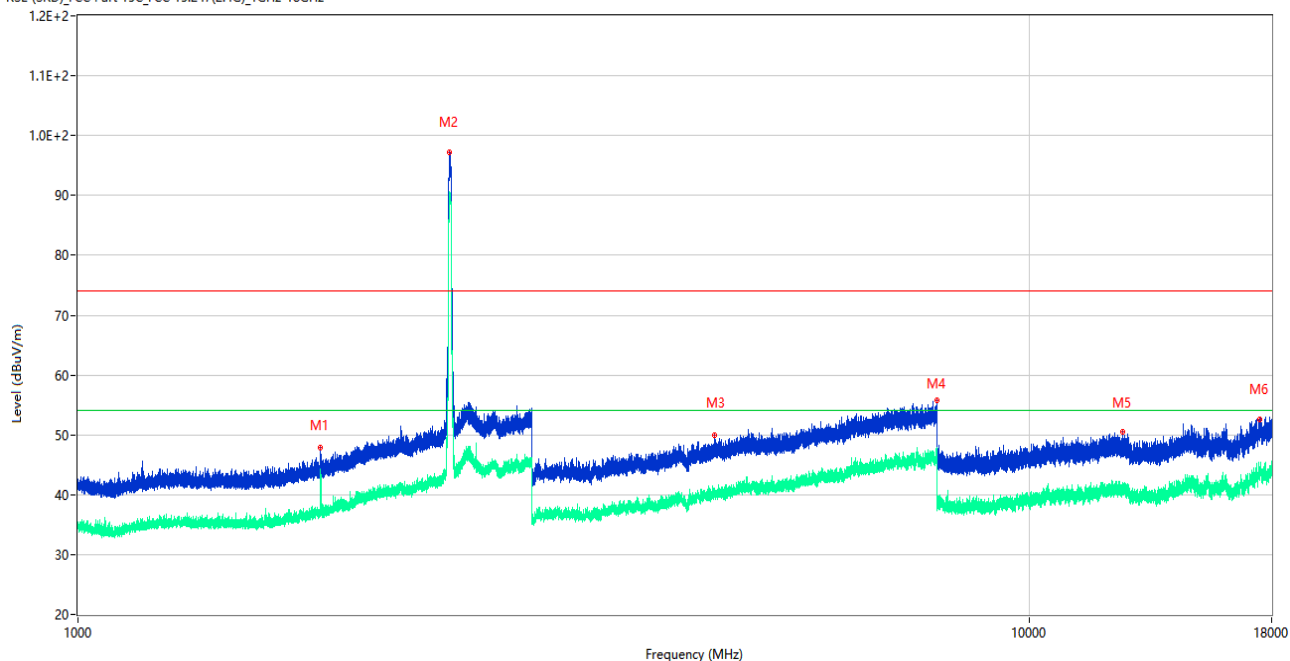
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.600	47.78	74.0	26.22	Peak	217.00	400	Vertical	Pass
1**	1331.600	40.43	54.0	13.57	AV	217.00	400	Vertical	Pass
2	2439.500	86.73	74.0	-12.73	Peak	186.00	100	Vertical	N/A
2**	2439.500	79.36	54.0	-25.36	AV	186.00	100	Vertical	N/A
3	2666.300	53.93	74.0	20.07	Peak	119.00	150	Vertical	Pass
3**	2666.300	49.18	54.0	4.82	AV	119.00	150	Vertical	Pass
4	5309.500	55.21	74.0	18.79	Peak	127.00	150	Vertical	Pass
4**	5309.500	41.47	54.0	12.53	AV	127.00	150	Vertical	Pass
5	7991.750	55.61	74.0	18.39	Peak	179.00	200	Vertical	Pass
5**	7991.750	47.39	54.0	6.61	AV	179.00	200	Vertical	Pass
6	17461.350	52.60	74.0	21.40	Peak	300.00	200	Vertical	Pass
6**	17461.350	43.55	54.0	10.45	AV	300.00	200	Vertical	Pass

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

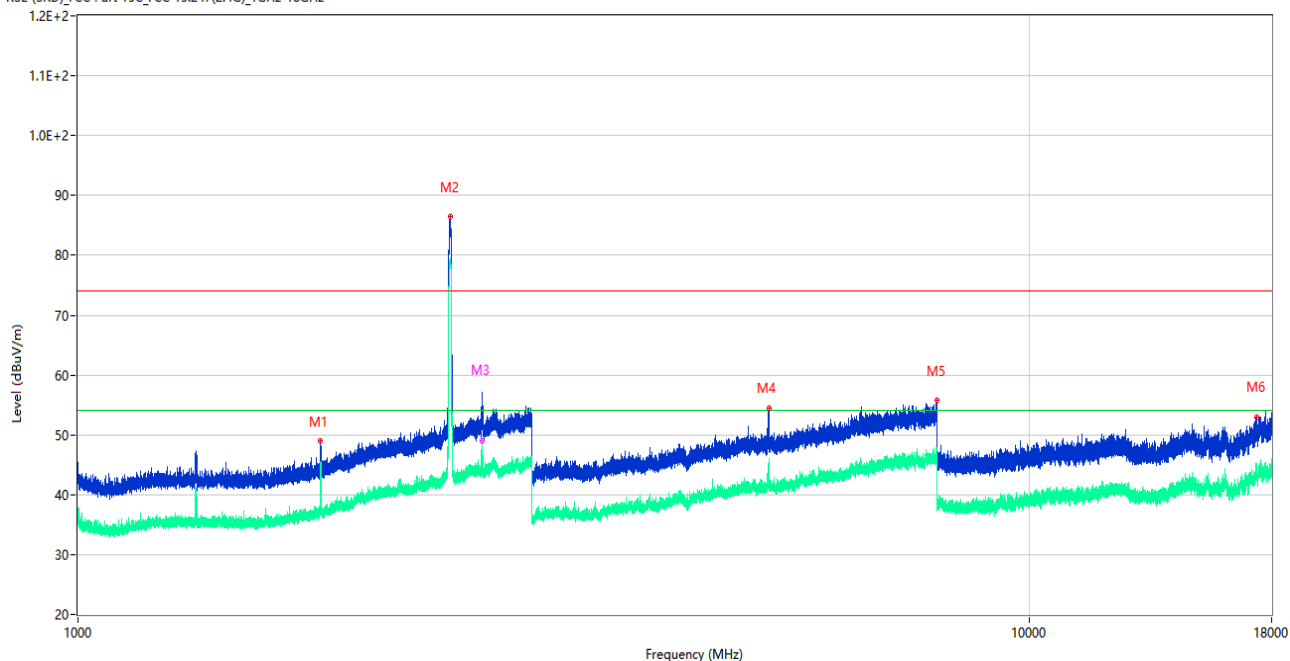
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1800.100	47.80	74.0	26.20	Peak	58.00	150	Horizontal	Pass
1**	1800.100	44.30	54.0	9.70	AV	58.00	150	Horizontal	Pass
2	2460.600	97.21	74.0	-23.21	Peak	320.00	100	Horizontal	N/A
2**	2460.600	90.28	54.0	-36.28	AV	320.00	100	Horizontal	N/A
3	4674.750	49.90	74.0	24.10	Peak	264.00	200	Horizontal	Pass
3**	4674.750	40.48	54.0	13.52	AV	264.00	200	Horizontal	Pass
4	7999.750	55.87	74.0	18.13	Peak	39.00	200	Horizontal	Pass
4**	7999.750	47.10	54.0	6.90	AV	39.00	200	Horizontal	Pass
5	12562.375	50.48	74.0	23.52	Peak	178.00	300	Horizontal	Pass
5**	12562.375	42.04	54.0	11.96	AV	178.00	300	Horizontal	Pass
6	17497.573	52.64	74.0	21.36	Peak	215.00	400	Horizontal	Pass
6**	17497.573	43.93	54.0	10.07	AV	215.00	400	Horizontal	Pass

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

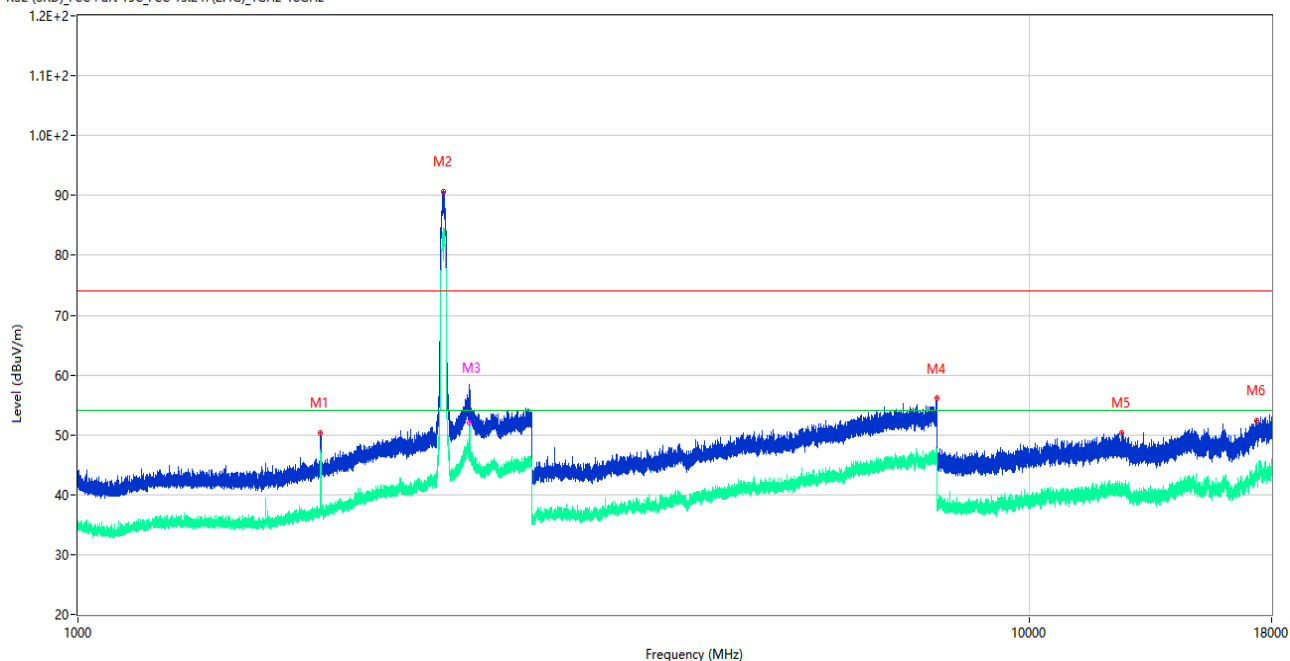
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1800.100	48.92	74.0	25.08	Peak	355.00	150	Vertical	Pass
1**	1800.100	44.20	54.0	9.80	AV	355.00	150	Vertical	Pass
2	2463.900	86.40	74.0	-12.40	Peak	245.00	150	Vertical	N/A
2**	2463.900	79.04	54.0	-25.04	AV	245.00	150	Vertical	N/A
3	2661.700	53.93	74.0	20.07	Peak	126.00	150	Vertical	Pass
3**	2661.700	49.01	54.0	4.99	AV	126.00	150	Vertical	Pass
4	5328.000	54.55	74.0	19.45	Peak	142.00	150	Vertical	Pass
4**	5328.000	44.55	54.0	9.45	AV	142.00	150	Vertical	Pass
5	7997.000	55.73	74.0	18.27	Peak	7.00	200	Vertical	Pass
5**	7997.000	46.90	54.0	7.10	AV	7.00	200	Vertical	Pass
6	17362.125	52.95	74.0	21.05	Peak	9.00	100	Vertical	Pass
6**	17362.125	44.07	54.0	9.93	AV	9.00	100	Vertical	Pass

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

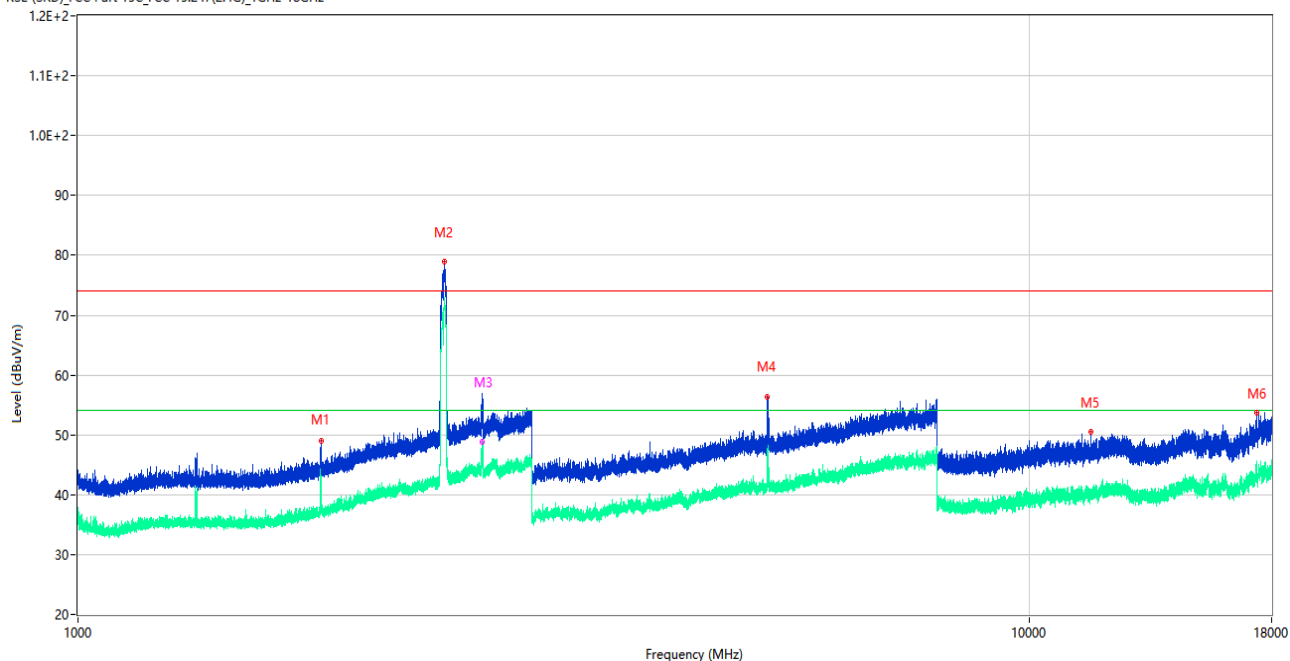
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1799.900	50.24	74.0	23.76	Peak	0.00	150	Horizontal	Pass
1**	1799.900	45.98	54.0	8.02	AV	0.00	150	Horizontal	Pass
2	2420.400	90.67	74.0	-16.67	Peak	305.00	100	Horizontal	N/A
2**	2420.400	83.08	54.0	-29.08	AV	305.00	100	Horizontal	N/A
3	2582.000	57.19	74.0	16.81	Peak	305.00	150	Horizontal	Pass
3**	2582.000	52.10	54.0	1.90	AV	305.00	150	Horizontal	Pass
4	7997.250	56.14	74.0	17.86	Peak	212.00	300	Horizontal	Pass
4**	7997.250	46.92	54.0	7.08	AV	212.00	300	Horizontal	Pass
5	12522.951	50.40	74.0	23.60	Peak	306.00	300	Horizontal	Pass
5**	12522.951	40.32	54.0	13.68	AV	306.00	300	Horizontal	Pass
6	17352.937	52.39	74.0	21.61	Peak	65.00	300	Horizontal	Pass
6**	17352.937	44.13	54.0	9.87	AV	65.00	300	Horizontal	Pass

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

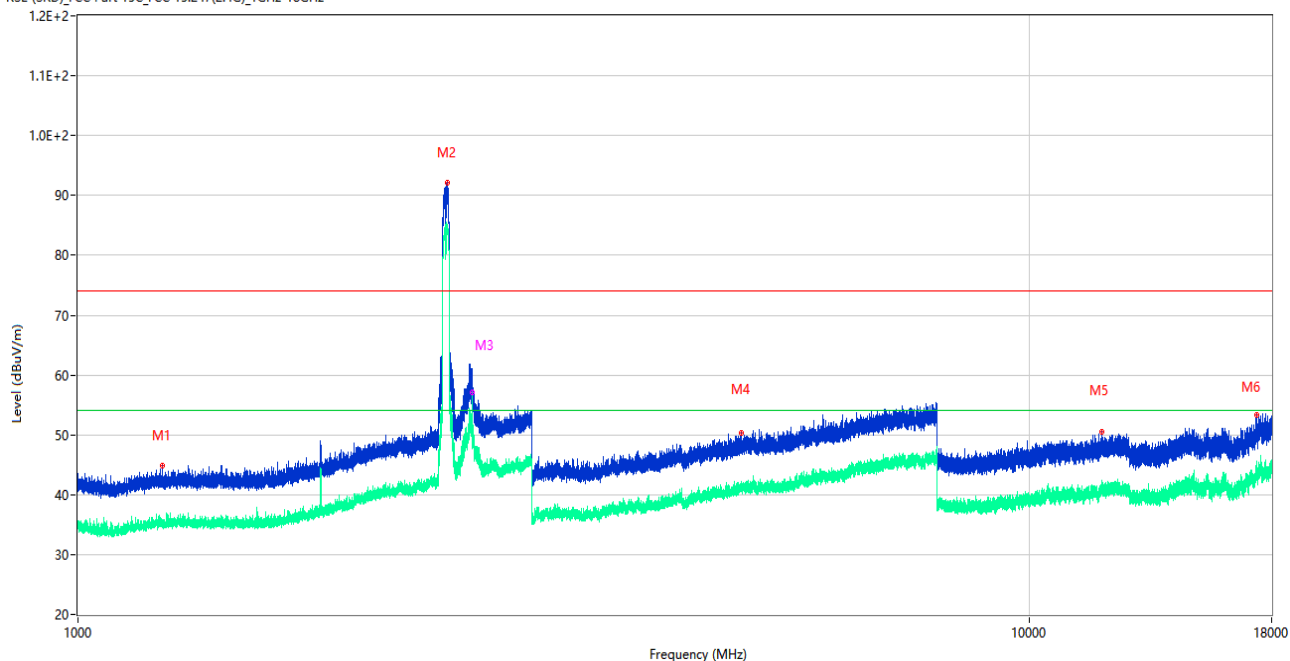
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1800.400	49.06	74.0	24.94	Peak	153.00	150	Vertical	Pass
1**	1800.400	42.26	54.0	11.74	AV	153.00	150	Vertical	Pass
2	2427.500	78.86	74.0	-4.86	Peak	199.00	150	Vertical	N/A
2**	2427.500	72.26	54.0	-18.26	AV	199.00	150	Vertical	N/A
3	2659.400	55.59	74.0	18.41	Peak	266.00	150	Vertical	Pass
3**	2659.400	48.84	54.0	5.16	AV	266.00	150	Vertical	Pass
4	5308.250	56.37	74.0	17.63	Peak	130.00	200	Vertical	Pass
4**	5308.250	44.48	54.0	9.52	AV	130.00	200	Vertical	Pass
5	11624.487	50.43	74.0	23.57	Peak	107.00	400	Vertical	Pass
5**	11624.487	40.11	54.0	13.89	AV	107.00	400	Vertical	Pass
6	17360.288	53.64	74.0	20.36	Peak	6.00	300	Vertical	Pass
6**	17360.288	43.60	54.0	10.40	AV	6.00	300	Vertical	Pass

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

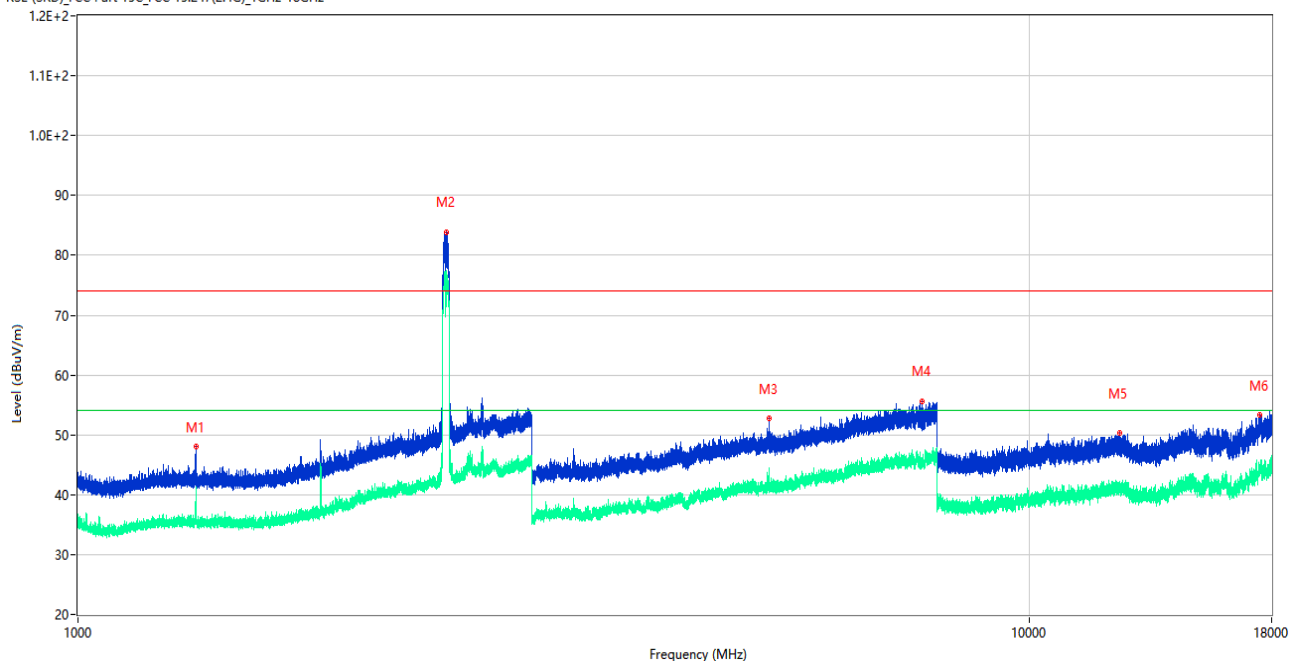
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1226.500	44.94	74.0	29.06	Peak	171.00	400	Horizontal	Pass
1**	1226.500	34.81	54.0	19.19	AV	171.00	400	Horizontal	Pass
2	2443.400	92.13	74.0	-18.13	Peak	1.00	100	Horizontal	N/A
2**	2443.400	85.21	54.0	-31.21	AV	1.00	100	Horizontal	N/A
3	2597.000	60.46	74.0	13.54	Peak	353.00	150	Horizontal	Pass
3**	2597.000	57.12	54.0	-3.12	AV	353.00	150	Horizontal	N/A
4	4985.750	50.25	74.0	23.75	Peak	70.00	100	Horizontal	Pass
4**	4985.750	41.05	54.0	12.95	AV	70.00	100	Horizontal	Pass
5	11932.526	50.46	74.0	23.54	Peak	54.00	100	Horizontal	Pass
5**	11932.526	41.27	54.0	12.73	AV	54.00	100	Horizontal	Pass
6	17351.625	53.30	74.0	20.70	Peak	360.00	200	Horizontal	Pass
6**	17351.625	44.07	54.0	9.93	AV	360.00	200	Horizontal	Pass

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

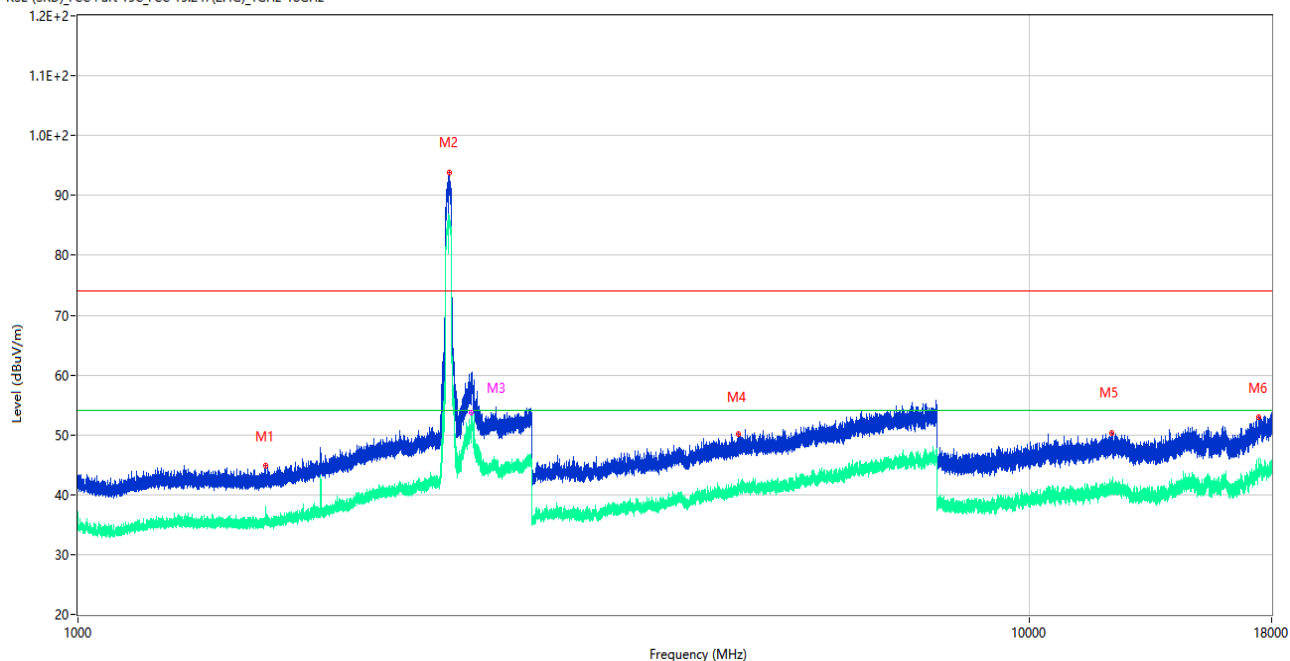
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.300	48.01	74.0	25.99	Peak	178.00	100	Vertical	Pass
1**	1330.300	36.71	54.0	17.29	AV	178.00	100	Vertical	Pass
2	2440.500	83.93	74.0	-9.93	Peak	80.00	100	Vertical	N/A
2**	2440.500	75.73	54.0	-21.73	AV	80.00	100	Vertical	N/A
3	5330.000	52.74	74.0	21.26	Peak	92.00	150	Vertical	Pass
3**	5330.000	41.56	54.0	12.44	AV	92.00	150	Vertical	Pass
4	7730.250	55.62	74.0	18.38	Peak	325.00	300	Vertical	Pass
4**	7730.250	45.58	54.0	8.42	AV	325.00	300	Vertical	Pass
5	12462.387	50.25	74.0	23.75	Peak	138.00	100	Vertical	Pass
5**	12462.387	40.48	54.0	13.52	AV	138.00	100	Vertical	Pass
6	17471.588	53.31	74.0	20.69	Peak	360.00	300	Vertical	Pass
6**	17471.588	43.49	54.0	10.51	AV	360.00	300	Vertical	Pass

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

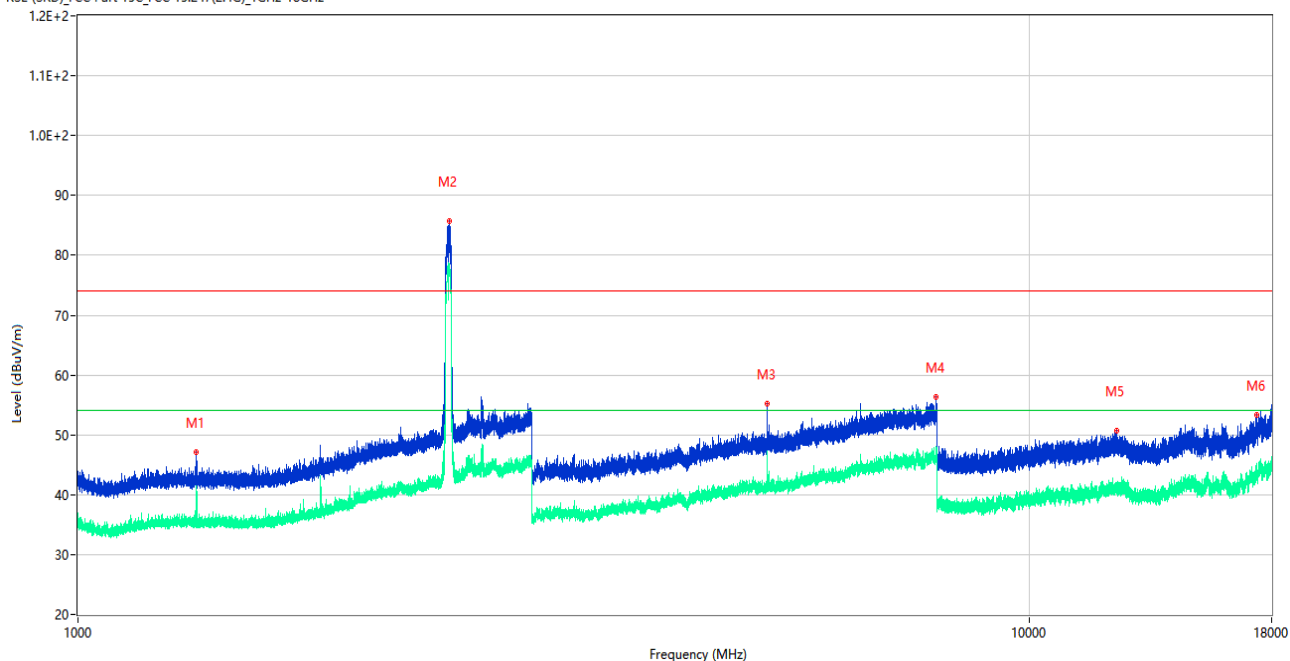
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1574.900	44.83	74.0	29.17	Peak	176.00	400	Horizontal	Pass
1**	1574.900	36.90	54.0	17.10	AV	176.00	400	Horizontal	Pass
2	2455.100	93.91	74.0	-19.91	Peak	0.00	200	Horizontal	N/A
2**	2455.100	85.56	54.0	-31.56	AV	0.00	200	Horizontal	N/A
3	2594.600	58.60	74.0	15.40	Peak	28.00	150	Horizontal	Pass
3**	2594.600	53.76	54.0	0.24	AV	28.00	150	Horizontal	Pass
4	4954.000	50.20	74.0	23.80	Peak	357.00	100	Horizontal	Pass
4**	4954.000	40.66	54.0	13.34	AV	357.00	100	Horizontal	Pass
5	12222.750	50.24	74.0	23.76	Peak	52.00	100	Horizontal	Pass
5**	12222.750	41.23	54.0	12.77	AV	52.00	100	Horizontal	Pass
6	17449.802	52.89	74.0	21.11	Peak	269.00	200	Horizontal	Pass
6**	17449.802	44.32	54.0	9.68	AV	269.00	200	Horizontal	Pass

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

RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.200	47.04	74.0	26.96	Peak	176.00	100	Vertical	Pass
1**	1330.200	36.49	54.0	17.51	AV	176.00	100	Vertical	Pass
2	2456.700	85.72	74.0	-11.72	Peak	73.00	200	Vertical	N/A
2**	2456.700	78.07	54.0	-24.07	AV	73.00	200	Vertical	N/A
3	5311.000	55.21	74.0	18.79	Peak	101.00	150	Vertical	Pass
3**	5311.000	45.08	54.0	8.92	AV	101.00	150	Vertical	Pass
4	7991.750	56.29	74.0	17.71	Peak	326.00	200	Vertical	Pass
4**	7991.750	46.97	54.0	7.03	AV	326.00	200	Vertical	Pass
5	12367.388	50.62	74.0	23.38	Peak	1.00	300	Vertical	Pass
5**	12367.388	41.66	54.0	12.34	AV	1.00	300	Vertical	Pass
6	17365.275	53.31	74.0	20.69	Peak	336.00	300	Vertical	Pass
6**	17365.275	43.45	54.0	10.55	AV	336.00	300	Vertical	Pass

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

Note¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

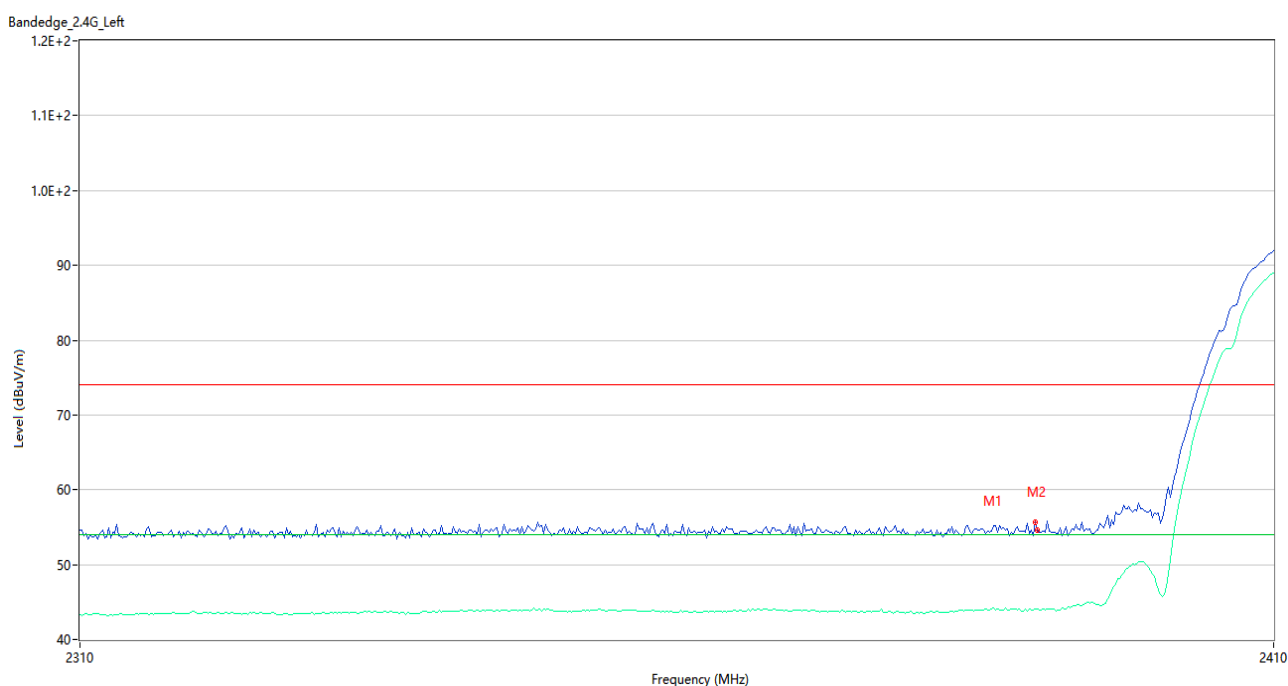
Note²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note³: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note⁴: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

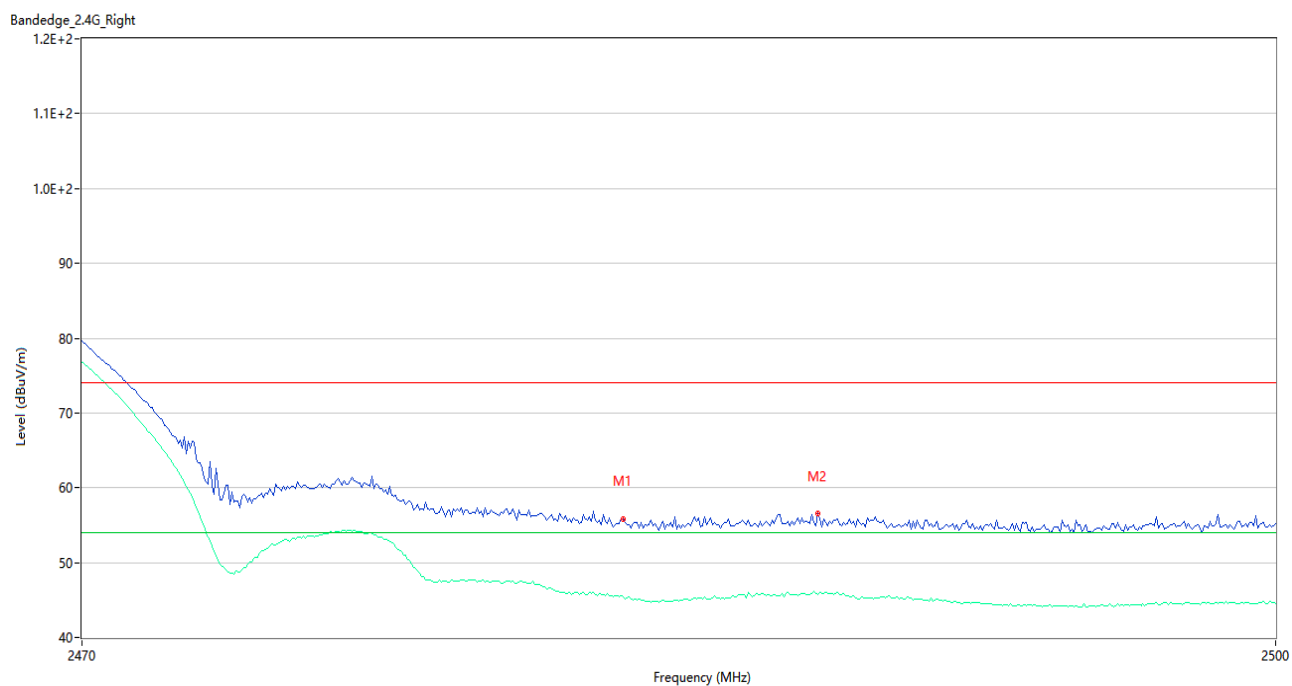
Test Data and Plots

802.11b LOW CHANNEL



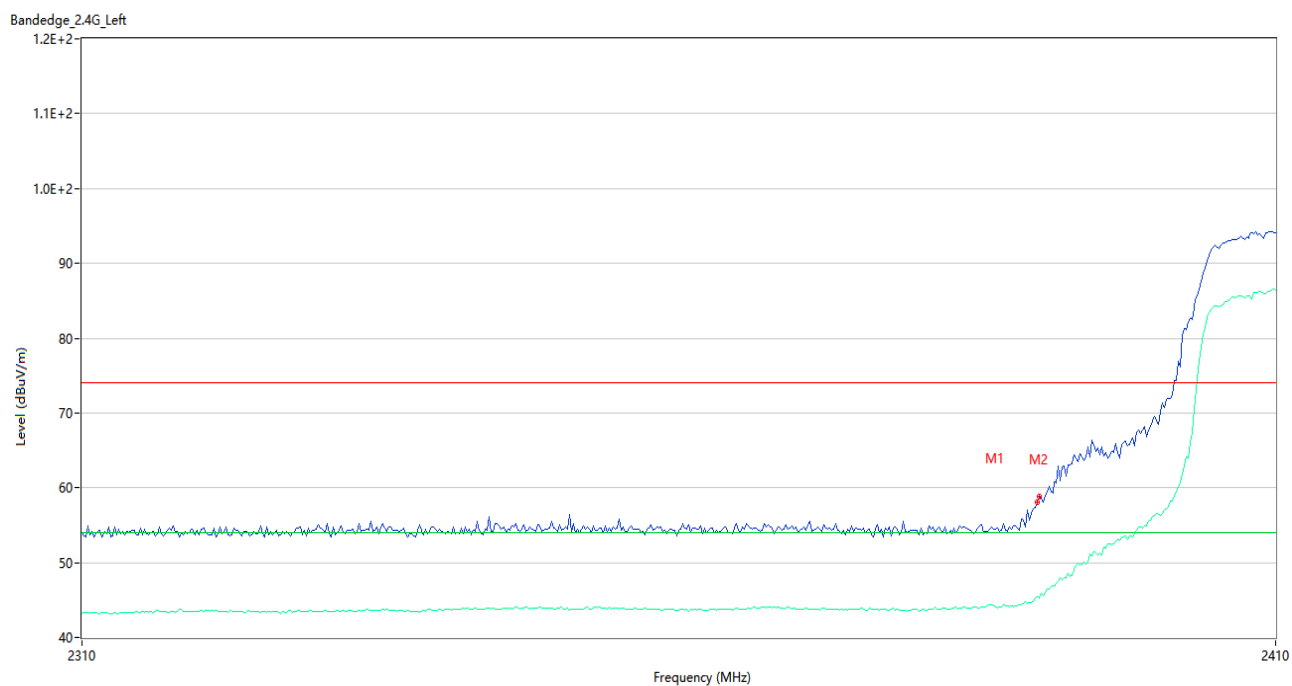
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.667	55.67	74.0	18.33	Peak	2.00	150	Horizontal	Pass
1**	2389.667	44.02	54.0	9.98	AV	2.00	150	Horizontal	Pass
2	2389.833	54.68	74.0	19.32	Peak	0.00	150	Horizontal	Pass
2**	2389.833	43.99	54.0	10.01	AV	0.00	150	Horizontal	Pass

802.11b HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	55.87	74.0	18.13	Peak	360.00	200	Horizontal	Pass
1**	2483.550	45.43	54.0	8.57	AV	360.00	200	Horizontal	Pass
2	2488.450	56.55	74.0	17.45	Peak	10.00	150	Horizontal	Pass
2**	2488.450	45.75	54.0	8.25	AV	10.00	150	Horizontal	Pass

802.11g LOW CHANNEL



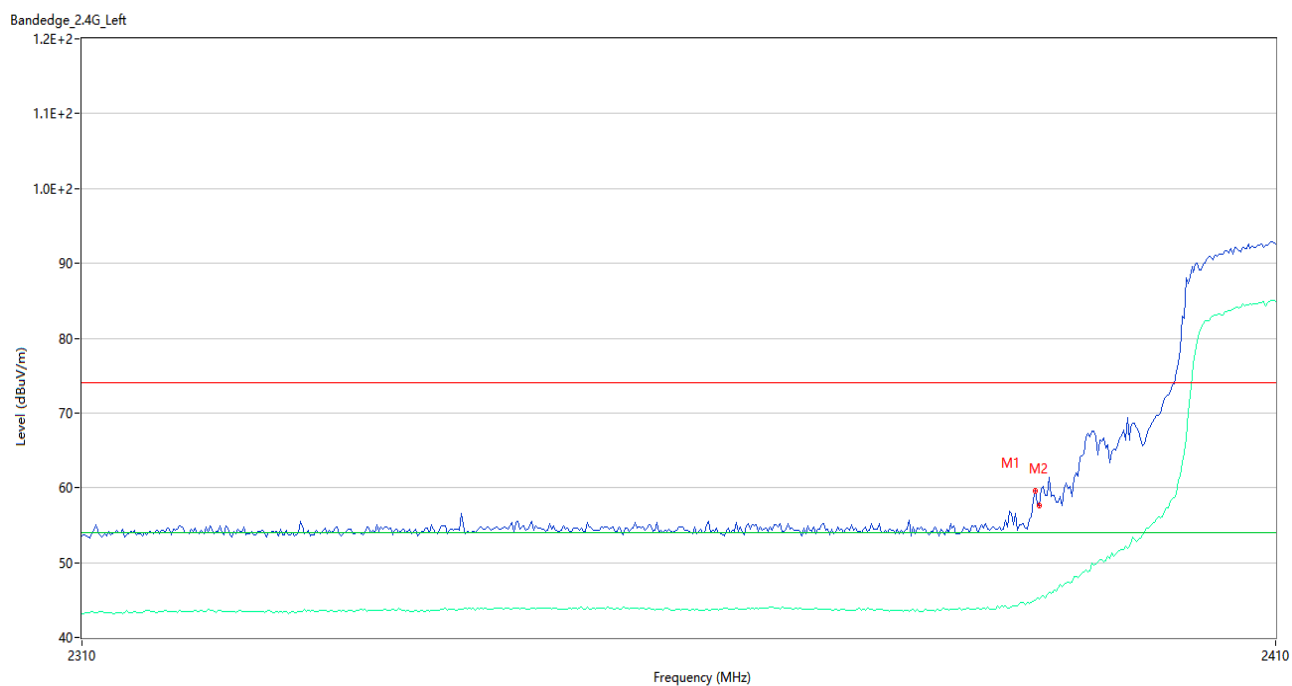
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.667	58.15	74.0	15.85	Peak	0.00	200	Horizontal	Pass
1**	2389.667	45.41	54.0	8.59	AV	0.00	200	Horizontal	Pass
2	2389.833	58.88	74.0	15.12	Peak	318.00	200	Horizontal	Pass
2**	2389.833	45.34	54.0	8.66	AV	318.00	200	Horizontal	Pass

802.11g HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	63.96	74.0	10.04	Peak	354.00	100	Horizontal	Pass
1**	2483.500	50.13	54.0	3.87	AV	354.00	100	Horizontal	Pass
2	2484.400	63.92	74.0	10.08	Peak	348.00	150	Horizontal	Pass
2**	2484.400	49.80	54.0	4.20	AV	348.00	150	Horizontal	Pass

802.11n20 LOW CHANNEL



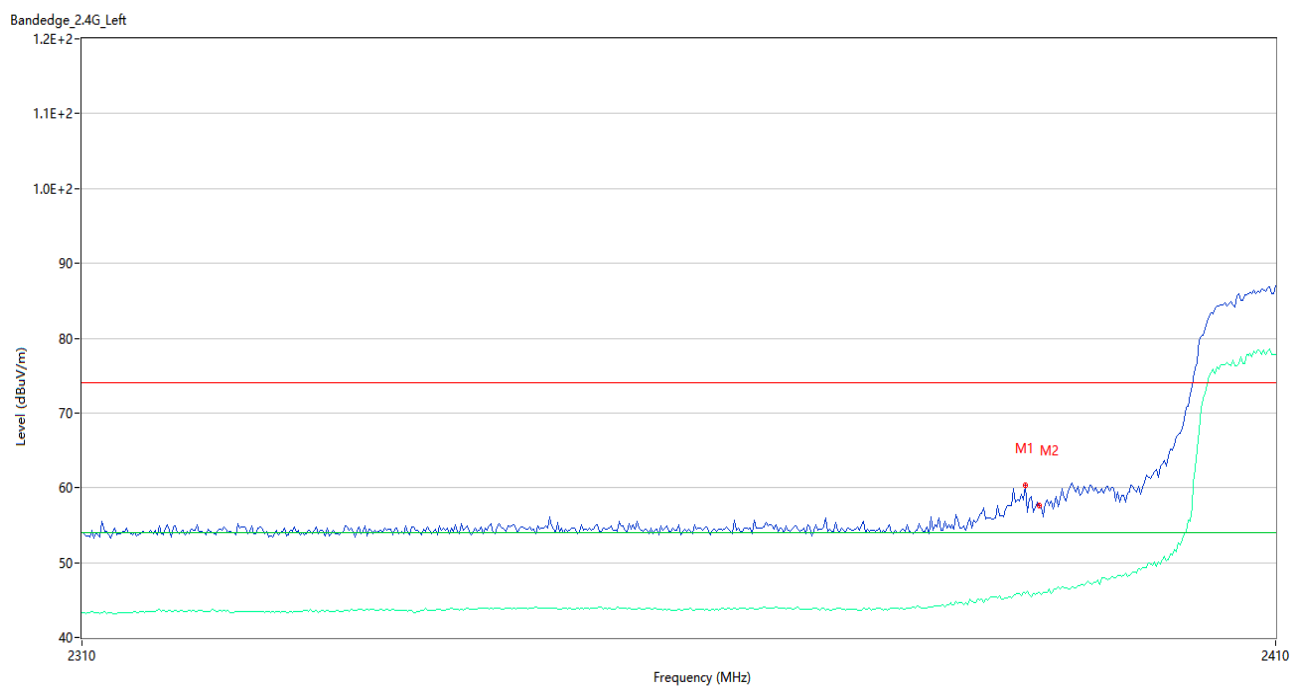
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.500	59.63	74.0	14.37	Peak	0.00	100	Horizontal	Pass
1**	2389.500	44.95	54.0	9.05	AV	0.00	100	Horizontal	Pass
2	2389.833	57.58	74.0	16.42	Peak	65.00	200	Horizontal	Pass
2**	2389.833	45.19	54.0	8.81	AV	65.00	200	Horizontal	Pass

802.11n20 HIGH CHANNEL



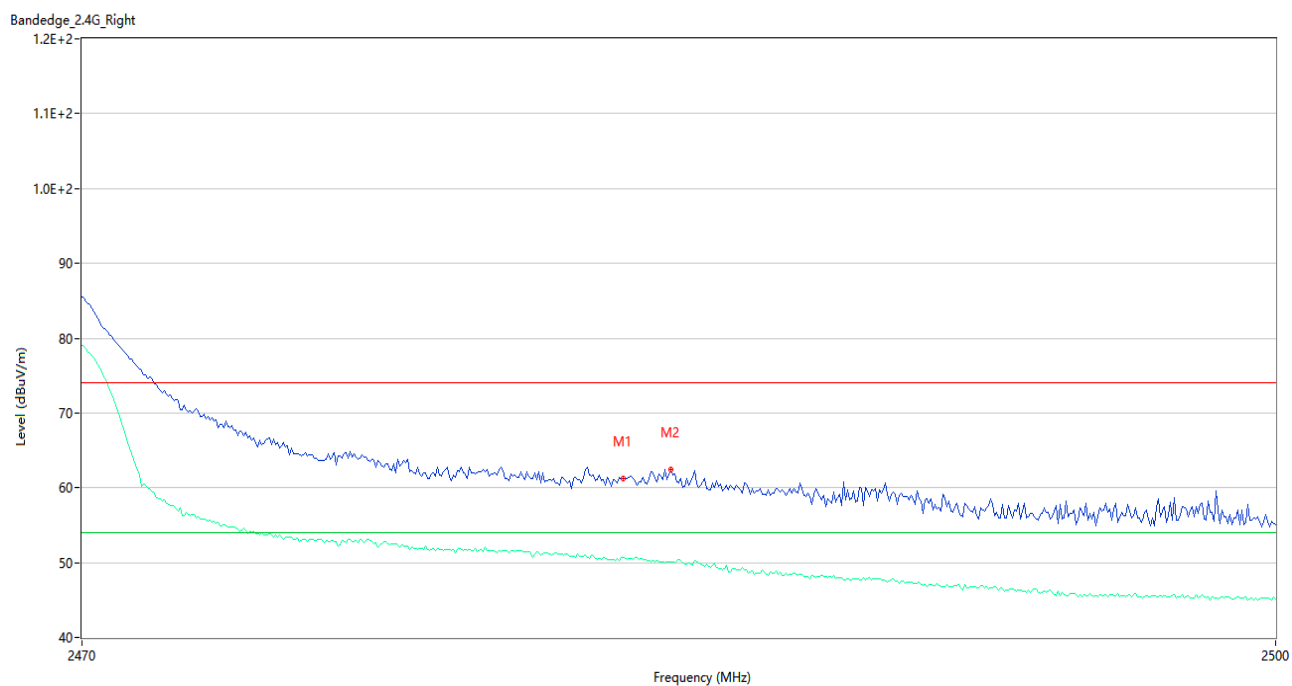
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	63.42	74.0	10.58	Peak	9.00	100	Horizontal	Pass
1**	2483.550	49.83	54.0	4.17	AV	9.00	100	Horizontal	Pass
2	2483.750	63.08	74.0	10.92	Peak	360.00	200	Horizontal	Pass
2**	2483.750	49.87	54.0	4.13	AV	360.00	200	Horizontal	Pass

802.11n40 LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.667	60.32	74.0	13.68	Peak	0.00	200	Horizontal	Pass
1**	2388.667	45.83	54.0	8.17	AV	0.00	200	Horizontal	Pass
2	2389.833	57.69	74.0	16.31	Peak	61.00	200	Horizontal	Pass
2**	2389.833	46.04	54.0	7.96	AV	61.00	200	Horizontal	Pass

802.11n40 HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	61.26	74.0	12.74	Peak	357.00	200	Horizontal	Pass
1**	2483.550	50.68	54.0	3.32	AV	357.00	200	Horizontal	Pass
2	2484.750	62.42	74.0	11.58	Peak	360.00	200	Horizontal	Pass
2**	2484.750	50.16	54.0	3.84	AV	360.00	200	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-10.58	8
Middle	-9.08	8
High	-8.92	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.69	8
Middle	-12.11	8
High	-10.83	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.46	8
Middle	-13.50	8
High	-12.68	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.75	8
Middle	-16.89	8
High	-16.61	8

Test Plots

802.11b LOW CHANNEL



802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



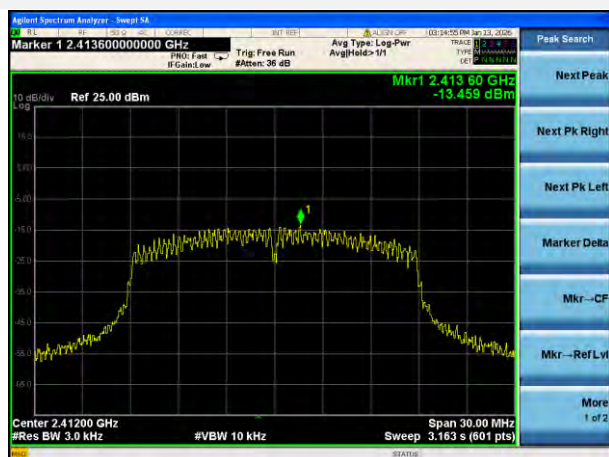
802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



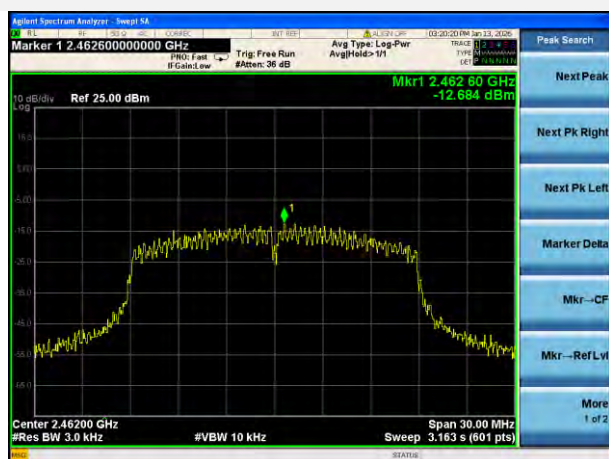
802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ25C1510-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ25C1510-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ25C1510-AI.PDF”.

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--END OF REPORT--