



TEST REPORT

Applicant: Acer Incorporated
Address: 8F, 88, Sec. 1, Xintai 5th Rd. Xizhi, New Taipei City
221, Taiwan
Equipment Type: Tablet PC
Model Name: A26009 (refer to section 2.3)
Brand Name: acer
Marketing Name: Iconia A16, A16-21***
(The symbol "*" can be 0-9, a-z, A-Z, "(", ")", "-", "/",
" ", " _ " or blank)
FCC ID: HLZA26009
ISED Number: 1754F-A26009
47 CFR Part 15 Subpart C
Test Standard: RSS-Gen Issue 5
RSS-247 Issue 4
(refer to section 3.1)
Sample Arrival Date: Jun. 25, 2026
Test Date: Jun. 27, 2026 - Jul. 14, 2026
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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.



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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Sep. 02, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☒ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The CAB identifier number is CN0030.

2 PRODUCT INFORMATION

2.1 Applicant Information

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

2.2 Manufacturer Information

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

2.3 General Description for Equipment under Test (EUT)

EUT Name	Tablet PC
Model Name Under Test	A26009
Series Model Name	A26009*** (The symbol “*” can be 0-9, a-z, A-Z, “(”, “)”, “-”, “/”, “\”, “_” or blank)
Description of Model name differentiation	Only differences are model names for trading purpose. (this information provided by the applicant)
Marketing Name	Iconia A16, A16-21*** (The symbol “*” can be 0-9, a-z, A-Z, “(”, “)”, “-”, “/”, “\”, “_” or blank)
Serial Number	NBLLL11001623000556X00
Hardware Version	JF1086 UX1.1
Software Version	Android 16
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n and 802.11ac
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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	PIFA Antenna
Antenna Gain	0.61 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 2.5 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.6 Additional Instructions

EUT Software Settings:

Mode	☒ Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.
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During testing. Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power level setup in software			
Test Software Version	Engineer Mode		
Support Units (Software installation media)	Description	Manufacturer	Model
	/	/	/
Mode	Channel	Frequency (MHz)	Soft Set
802.11b	1	2412	19.5
	6	2437	
	11	2462	
802.11g	1	2412	17.5
	6	2437	
	11	2462	
802.11n-20 MHz	1	2412	17.5
	6	2437	
	11	2462	
802.11n-40 MHz	3	2422	16.5
	6	2437	
	9	2452	

Run Software:



3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional radiators of radio frequency equipment
2	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus
3	RSS-247 Issue 4	Digital Transmission Systems, Frequency Hopping Systems and Licence Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands
4	ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024	American National Standard for Procedures for Compliance Testing of Unlicensed Wireless Devices
5	KDB Publication 558074 D01v05r02☆	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES

3.2 Test Verdict

No.	Description	FCC PART No.	ISED Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	RSS-Gen, 6.8	N/A	Pass ^{Note 1}
2	Output Power	15.247 (b)	RSS-247, 6.3.2	ANNEX A.1	Pass
3	Occupied Bandwidth	15.247 (a)	RSS-GEN, 6.7; RSS-247, 6.3.1(a)	ANNEX A.2	Pass
4	Conducted Spurious Emission	15.247 (d)	RSS-247, 6.6	ANNEX A.3	Pass
5	Band Edge(Authorized-band band-edge)	15.247 (d)	RSS-247, 6.6	ANNEX A.4	Pass
6	Conducted Emission	15.207	RSS-GEN, 8.8	ANNEX A.5	Pass
7	Radiated Spurious Emission	15.209; 15.247 (d)	RSS-247, 6.6	ANNEX A.6	Pass
8	Band Edge(Restricted-band band-edge)	15.209; 15.247 (d)	RSS-247, 6.6	ANNEX A.7	Pass
9	Power spectral density (PSD)	15.247 (e)	RSS-247, 6.3.1(b)	ANNEX A.8	Pass
10	Receiver Spurious Emissions	N/A	RSS-Gen, 7.3	N/A	N/A ^{Note 2}

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

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	46% to 63%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.8℃ to +25.1℃
Working Voltage of the EUT	NV (Normal Voltage)	3.80 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420186	2026.05.11	2027.05.10
Power meter	R&S	NRP8S	101498	2026.06.23	2027.06.22
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060127	2025.12.25	2026.12.24
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Test Antenna-Bi-Log	Schwarzbeck	VULB 9163	01414	2023.11.03	2026.11.02
Test Antenna-Horn	Schwarzbeck	BBHA 9120D	02459	2023.10.26	2026.10.25
Test Antenna-Loop	Schwarzbeck	FMZB 1513-60	00015	2026.05.12	2028.05.11
Anechoic Chamber	YIHENG	C8-966	107	2024.05.12	2027.05.11
EMI Receiver	Keysight	N9038A	MY55330121	2025.12.26	2026.12.25
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	2025.12.26	2026.12.25
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

Description	Manufacturer	Model	Parameter
Power Adapter	JIN XIN YU POWER (SHENGZHEN) SUPPLY CO., LTD	XVE073-4200150	100-240V/AC 50/60Hz 1.5A MAX

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%

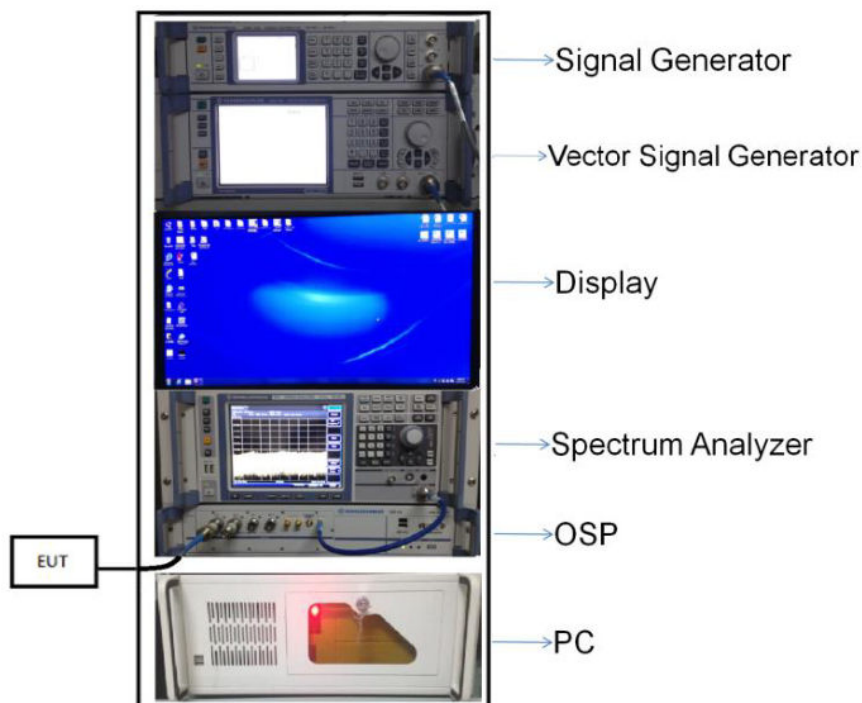
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

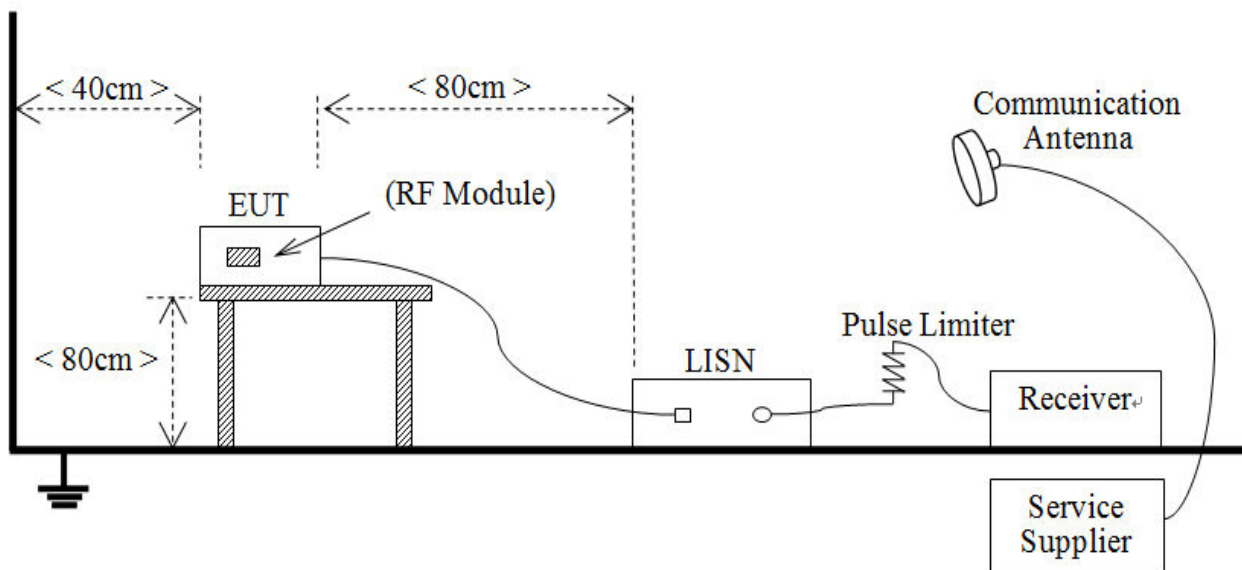
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



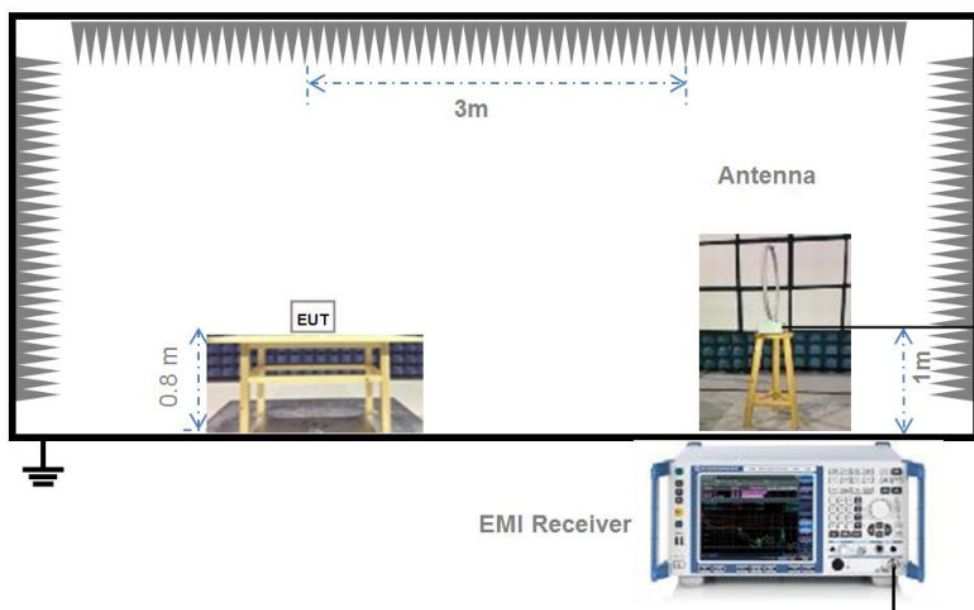
(Diagram 1)

4.5.2 For AC Power Supply Port Test



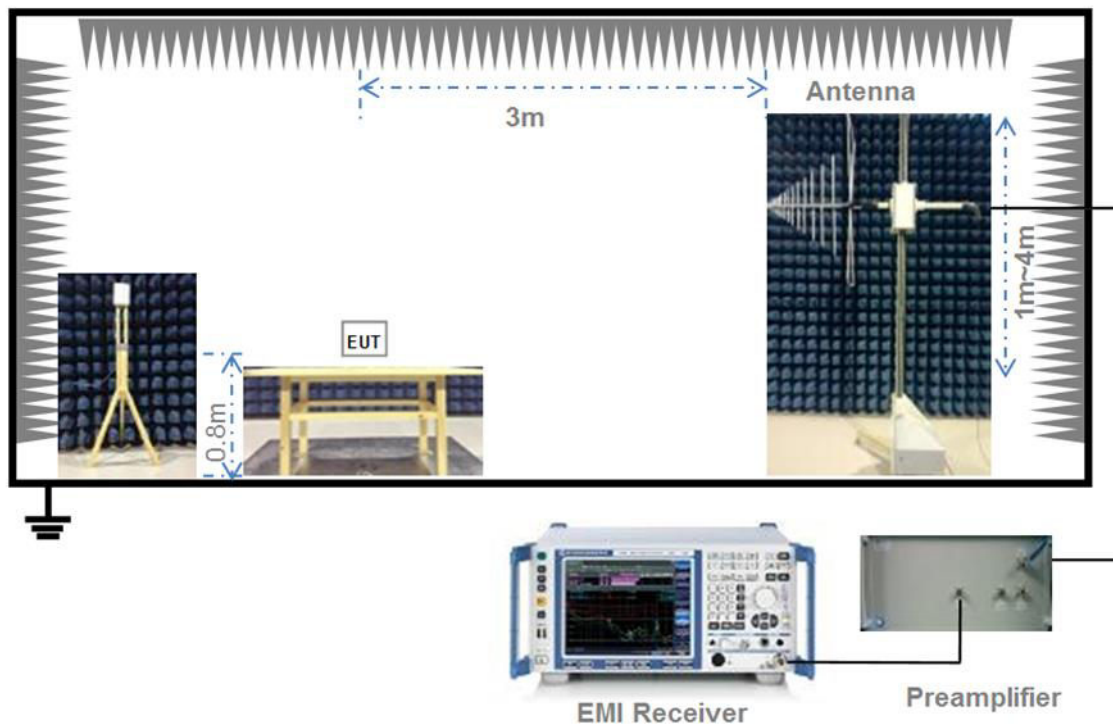
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



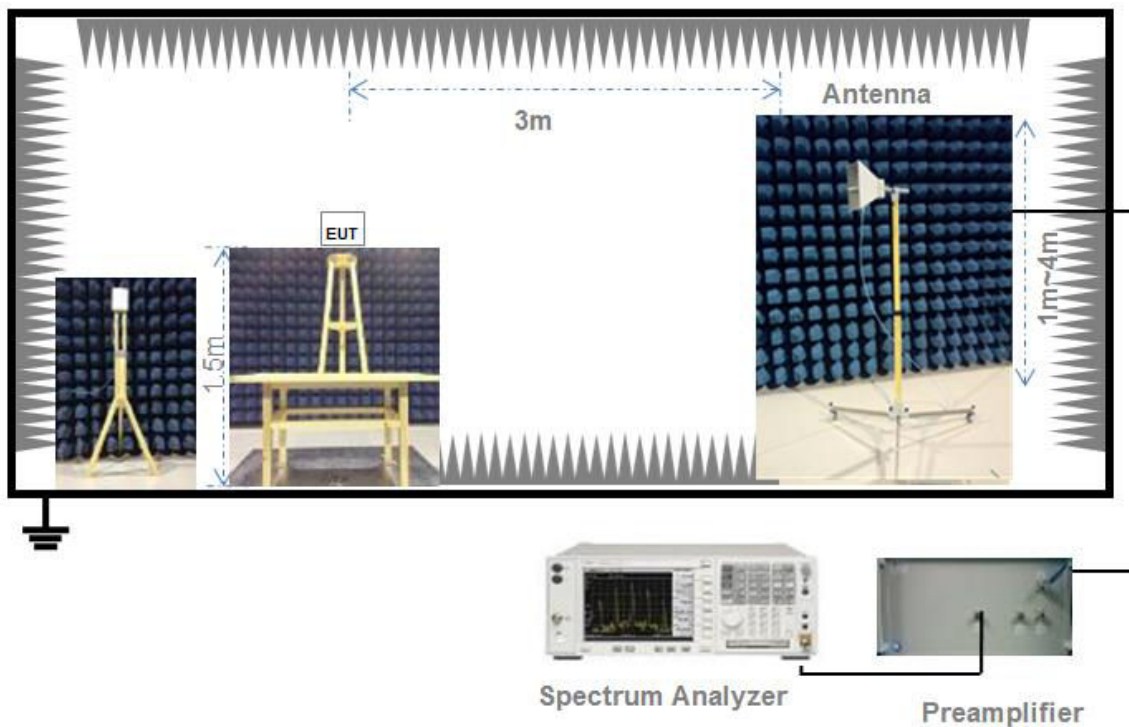
(Diagram 3)

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; RSS-Gen, 6.8

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

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

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

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

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

5.1.3 Antenna Gain

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

5.2 Output Power

5.2.1 Test Limit

FCC § 15.247(b); RSS-247, 6.3.2

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

RSS-247, 6.3.2

For DTS operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W, and the e.i.r.p. shall not exceed 4 W, except as provided in section 6.5 a) and b).

5.2.2 Test Setup

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

5.2.3 Test Procedure

Maximum peak conducted output power

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

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

EIRP= Maximum peak conducted output power +Antenna Gain.

Maximum conducted (average) output power (Reporting Only)

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

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

off periods of the transmitter.

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

Measurements of duty cycle

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

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

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

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

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

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC §15.247(a); RSS-GEN, 6.7; RSS-247, 6.3.1(a)

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

Option 1:

Use the following spectrum analyzer settings:

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

Set the video bandwidth (VBW) ≥ 3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = No faster than coupled (auto) time.

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.

Option 2:

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz,

VBW $\geq 3 \times$ RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

99% bandwidth:

Use the following spectrum analyzer settings:

Set RBW = shall be in the range of 1% to 5% of the OBW.

Set the video bandwidth (VBW) ≥ 3 RBW.

Set the Span to 1.5 to 5 times of OBW.

Detector = Peak.

Trace mode = max hold.

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Conducted Spurious Emission

5.4.1 Limit

FCC §15.247(d); RSS-247, 6.6

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

5.4.2 Test Setup

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

5.4.3 Test Procedure

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

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

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

Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

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

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

Emission level measurement

Use the following spectrum analyzer settings:

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

Set the RBW = 100 kHz.

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

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

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

5.4.4 Test Result

Please refer to ANNEX A.3.

5.5 Band Edge (Authorized-band band-edge)

5.5.1 Limit

FCC §15.247(d); RSS-GEN, 8.9, RSS-247, 6.6

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

5.5.2 Test Setup

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

5.5.3 Test Procedure

The 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 = No faster than coupled auto time.

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 = No faster than coupled auto time.

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.

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Conducted Emission

5.6.1 Limit

FCC §15.207; RSS-GEN, 8.8

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

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

5.6.2 Test Setup

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

5.6.3 Test Procedure

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

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

5.6.4 Test Result

Please refer to ANNEX A.5.

5.7 Radiated Spurious Emission

5.7.1 Limit

FCC §15.209&15.247(d); RSS-247, 6.6

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

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

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

Note:

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

5.7.2 Test Setup

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

5.7.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 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 C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024. All detected emissions shall comply with the applicable limits.

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

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test

condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Band Edge (Restricted-band band-edge)

5.8.1 Limit

FCC §15.209&15.247(d); RSS-247, 6.6

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

5.8.2 Test Setup

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

5.8.3 Test Procedure

The following procedures may be used to determine the average field strength or power of an unwanted emission that is within 2 MHz of the authorized band-edge. Use the procedure described in 11.12.3.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., $D \geq 98\%$). Use the procedure described in 11.12.3.2.3 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 $\pm 2\%$). Use the procedure described in 11.12.3.2.4 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%).

If the EUT can be configured or modified to transmit continuously ($D \geq 98\%$), measured using the following method (with EUT transmitting continuously):

Use the following spectrum analyzer settings:

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

RBW = 100 kHz.

VBW $\geq [3 \times \text{RBW}]$.

Detector = Power averaging (rms), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$.

Averaging type = power (i.e., rms):

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

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

Sweep time = auto.

Perform a trace average of at least 100 traces.

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.

If continuous transmission of the EUT ($D \geq 98\%$) cannot be achieved and the duty cycle is constant (duty cycle variations are less $\pm 2\%$), then the following procedure may be used to measure the average power of unwanted emissions within 2 MHz of the authorized band-edge:

RBW = 100 kHz.

VBW $\geq [3 \times \text{RBW}]$.

Detector = Power averaging (rms), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$.

Averaging type = power (i.e., rms):

Detector = Power averaging (rms), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$. Satisfying this condition might 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.

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 to use linear voltage averaging. Log or dB averaging shall not be used.

Sweep time = auto.

Perform a trace average of at least 100 traces.

Compute the power by integrating the spectrum over 1 MHz using the instrument's band-power measurement function with band limits set equal to the emission frequency (femission) ± 0.5 MHz. If the spectrum analyzer 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.

A correction factor shall be added to the measurement results prior to comparing with the emission limit to compute the emission level that would have been measured had the test been performed at 100% 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 $[10 \log (1 / D)]$, where D is the duty cycle.

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

3) If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and

OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Reduction of the measured emission amplitude levels to account for operational duty cycle is not permitted. Determining compliance is based on emission levels occurring during transmission—it is not based on an average across ON and OFF times of the transmitter.

5.8.4 Test Result

Please refer to ANNEX A.7.

5.9 Power Spectral density (PSD)

5.9.1 Limit

FCC §15.247(e); RSS-247, 6.3.1 (b)

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

5.9.2 Test Setup

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

5.9.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

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

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

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

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

5.9.4 Test Result

Please refer to ANNEX A.8.

ANNEX A TEST RESULT

A.1 Output Power

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
802.11b	8.38	8.42	99.55%	0.02
802.11g	1.39	1.44	96.94%	0.14
802.11n-20 MHz	1.30	1.35	96.65%	0.15
802.11n-40 MHz	0.65	0.69	93.50%	0.29

Peak Power Test Data

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.49	56.10	30	1000	Pass
Middle	19.31	85.31			Pass
High	18.43	69.66			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.84	76.56	30	1000	Pass
Middle	20.44	110.66			Pass
High	19.53	89.74			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.78	75.51	30	1000	Pass
Middle	20.34	108.14			Pass
High	19.42	87.50			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.24	83.95	30	1000	Pass
Middle	19.45	88.10			Pass
High	19.27	84.53			Pass

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.50	28.18	30	1000	Pass
Middle	16.32	42.85			Pass
High	15.46	35.16			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.49	17.74	30	1000	Pass
Middle	13.99	25.06			Pass
High	13.20	20.89			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.43	17.50	30	1000	Pass
Middle	13.90	24.55			Pass
High	13.08	20.32			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.66	18.45	30	1000	Pass
Middle	12.79	19.01			Pass
High	12.69	18.58			Pass

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

802.11b Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	18.10	64.57	36	4	Pass
Middle	19.92	98.17			Pass
High	19.04	80.17			Pass

802.11g Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	19.45	88.10	36	4	Pass
Middle	21.05	127.35			Pass
High	20.14	103.28			Pass

802.11n-20 MHz Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	19.39	86.90	36	4	Pass
Middle	20.95	124.45			Pass
High	20.03	100.69			Pass

802.11n-40 MHz Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	19.85	96.61	36	4	Pass
Middle	20.06	101.39			Pass
High	19.88	97.27			Pass

A.2 Occupied Bandwidth

Test Data

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	8.300000	12.977000	≥ 500
Middle	8.800000	12.981000	≥ 500
High	8.800000	12.958000	≥ 500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	15.600000	17.343000	≥ 500
Middle	16.200000	17.119000	≥ 500
High	16.400000	17.279000	≥ 500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	16.100000	18.206000	≥ 500
Middle	16.800000	18.084000	≥ 500
High	17.500000	18.165000	≥ 500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	26.000000	35.373000	≥ 500
Middle	33.400000	35.885000	≥ 500
High	37.000000	36.714000	≥ 500

Test Plots

6 dB Bandwidth

802.11b LOW CHANNEL



802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL

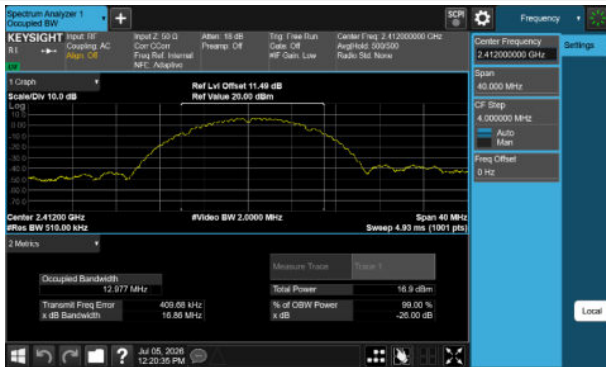


802.11n-40 MHz HIGH CHANNEL

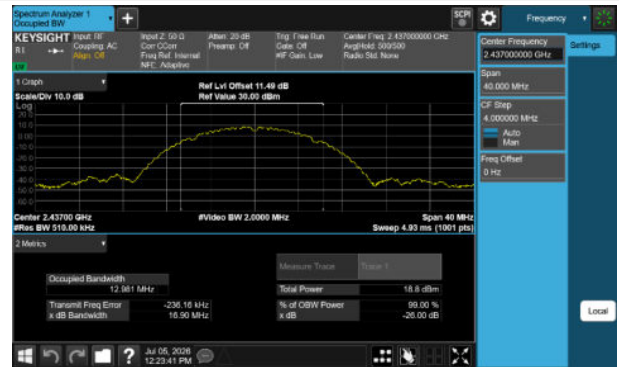


99% Bandwidth

802.11b LOW CHANNEL



802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



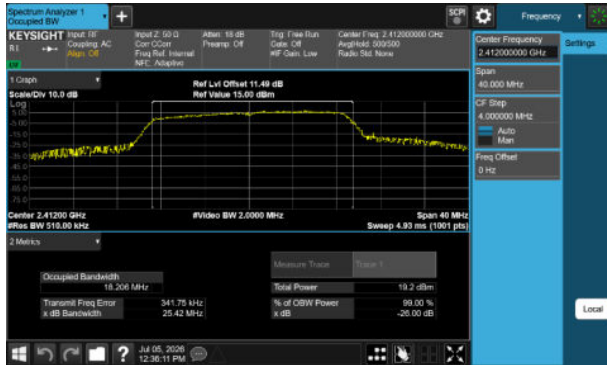
802.11g MIDDLE CHANNEL



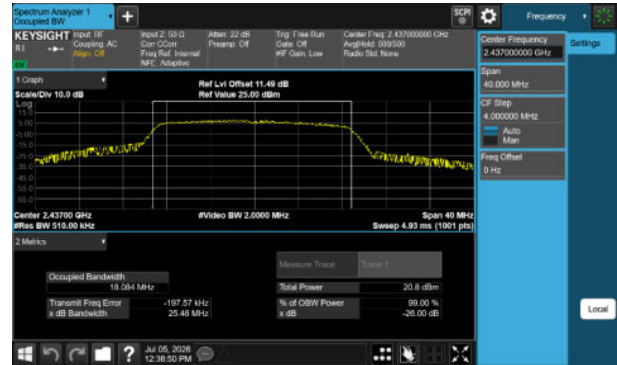
802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



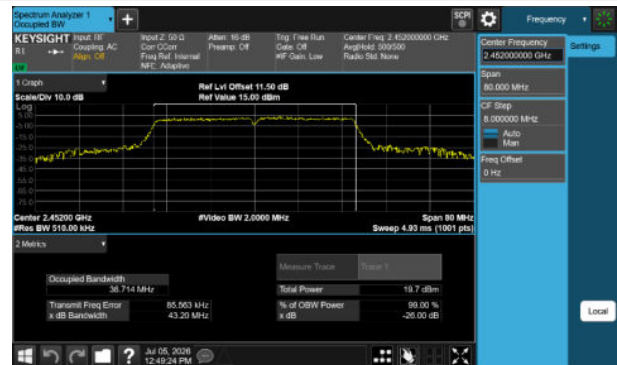
802.11n-40 MHz LOW CHANNEL



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	-32.37	6.73	-13.27	Pass
Middle	-34.40	8.44	-11.56	Pass
High	-34.21	7.37	-12.63	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-33.75	2.63	-17.37	Pass
Middle	-33.06	3.85	-16.15	Pass
High	-33.44	2.91	-17.09	Pass

802.11n-20MHz Mode:

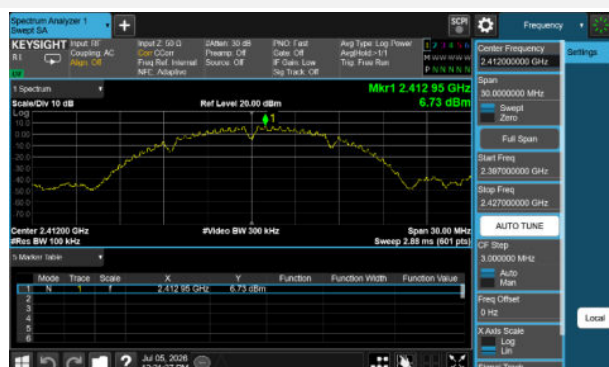
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-33.57	2.25	-17.75	Pass
Middle	-32.89	3.86	-16.14	Pass
High	-33.11	3.34	-16.66	Pass

802.11n-40MHz Mode:

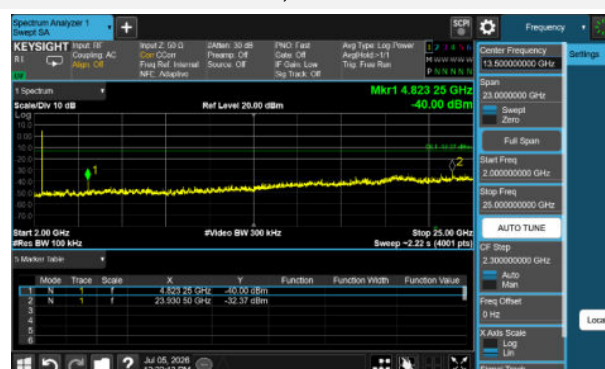
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-33.48	1.47	-18.53	Pass
Middle	-32.67	0.87	-19.13	Pass
High	-33.58	-0.96	-20.96	Pass

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



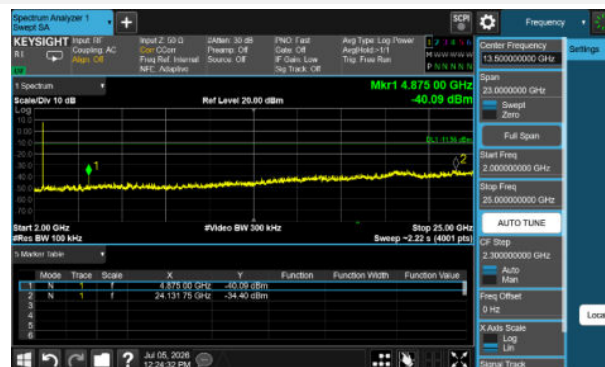
802.11b MIDDLE CHANNEL CARRIER LEVEL



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



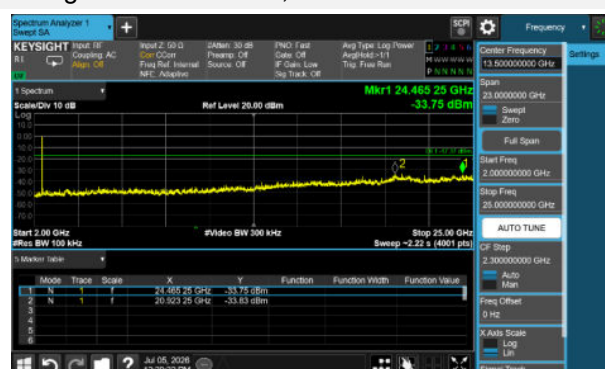
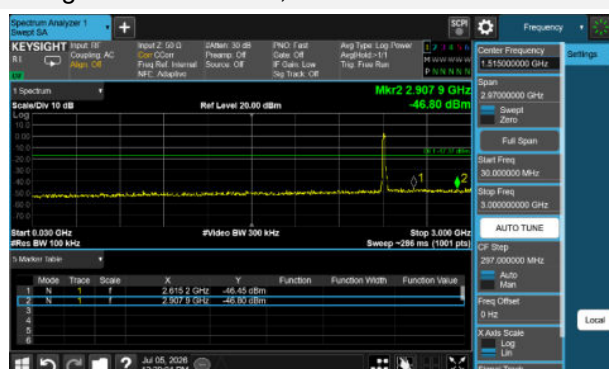
802.11b HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



802.11g LOW CHANNEL CARRIER LEVEL



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



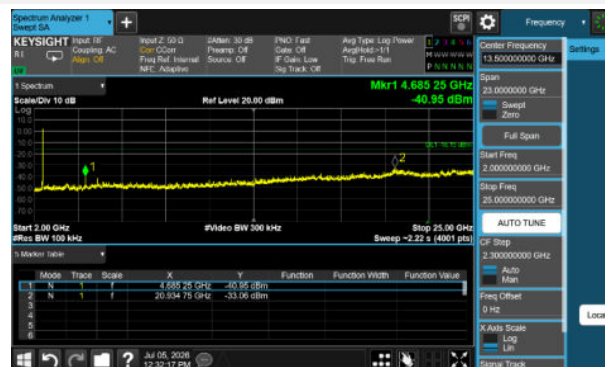
802.11g MIDDLE CHANNEL CARRIER LEVEL



802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



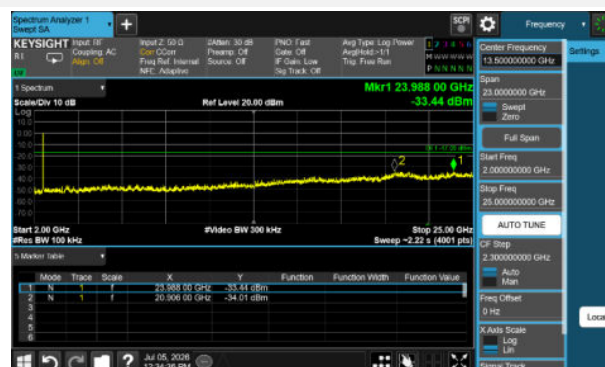
802.11g HIGH CHANNEL CARRIER LEVEL



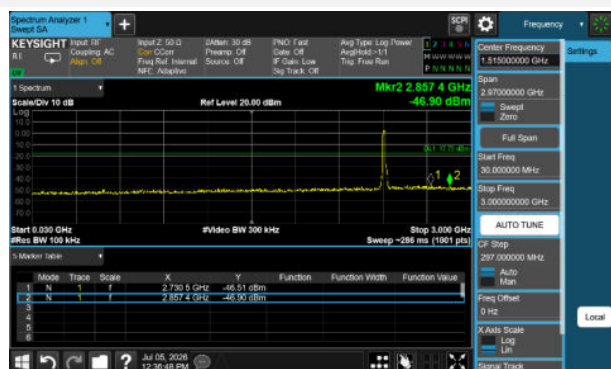
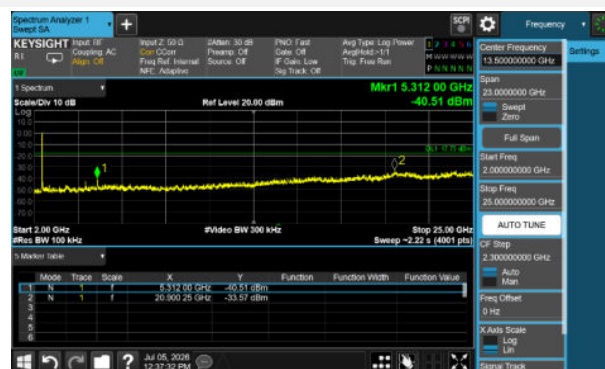
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



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

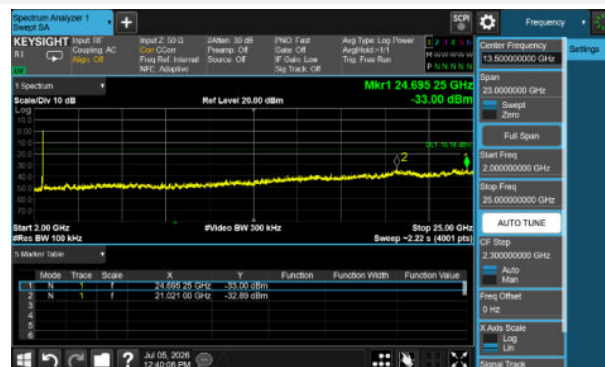
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



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



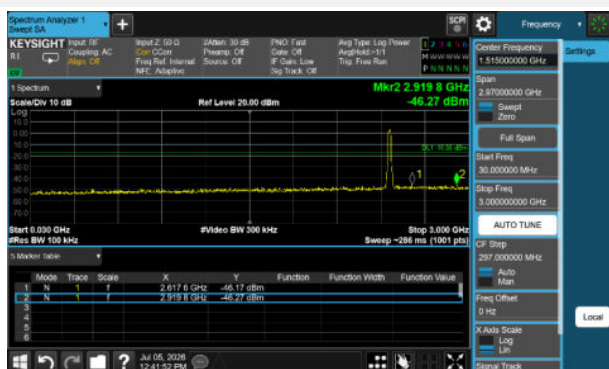
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



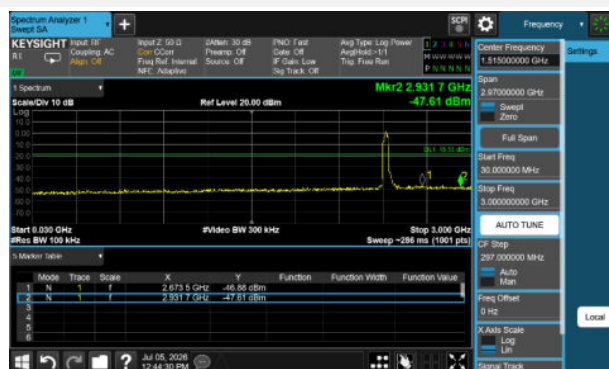
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



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

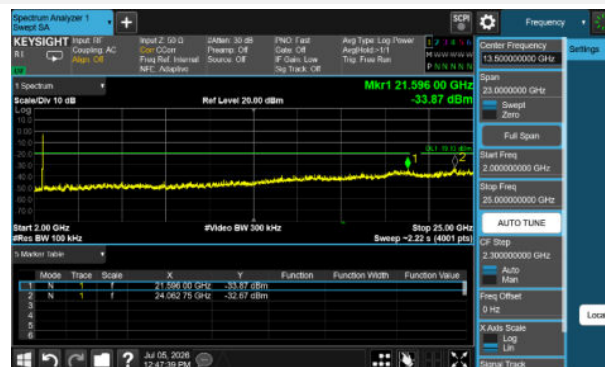
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



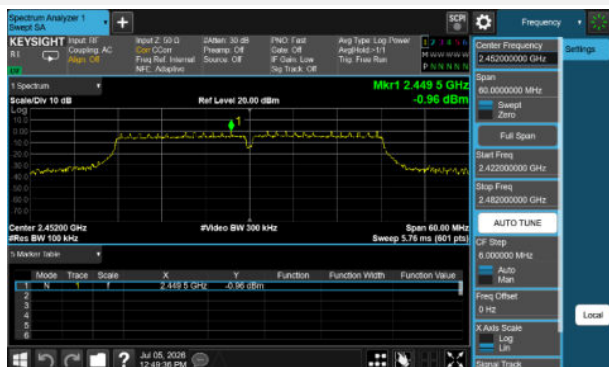
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



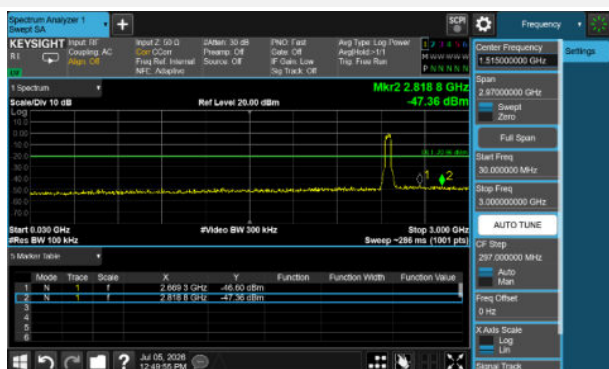
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



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	-43.92	6.73	-13.27	Pass
High Channel	-46.71	7.37	-12.63	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-35.24	2.63	-17.37	Pass
High Channel	-42.95	2.91	-17.09	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-35.60	2.25	-17.75	Pass
High Channel	-39.12	3.34	-16.66	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-42.03	1.47	-18.53	Pass
High Channel	-34.35	-0.96	-20.96	Pass

Test Plots

802.11b LOW CHANNEL, CARRIER LEVEL



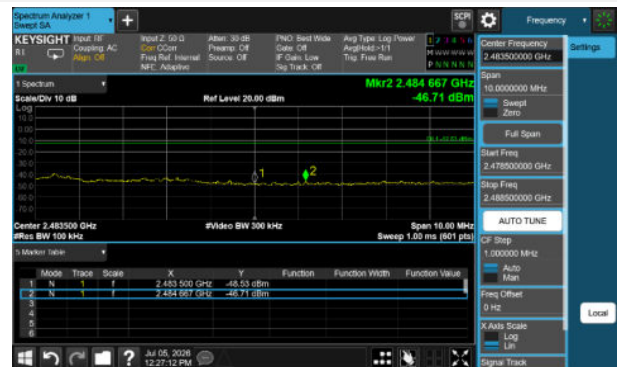
802.11b LOW CHANNEL, BAND EDGE



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.

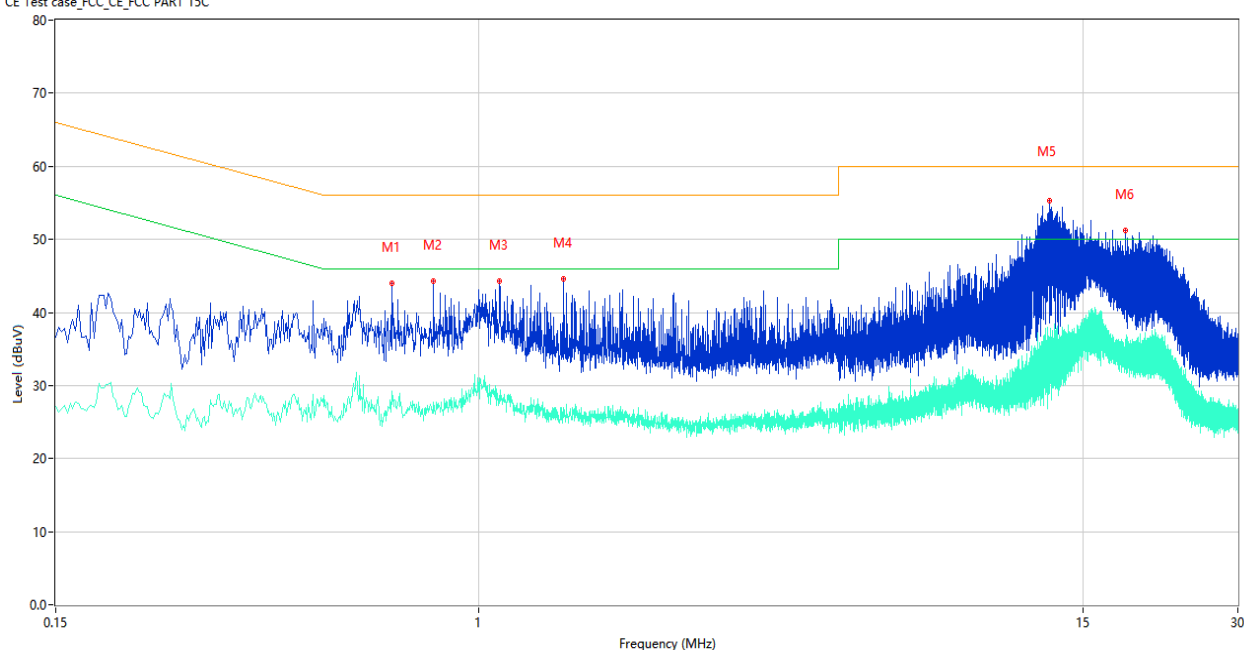
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

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

Test Data and Plots

PHASE L

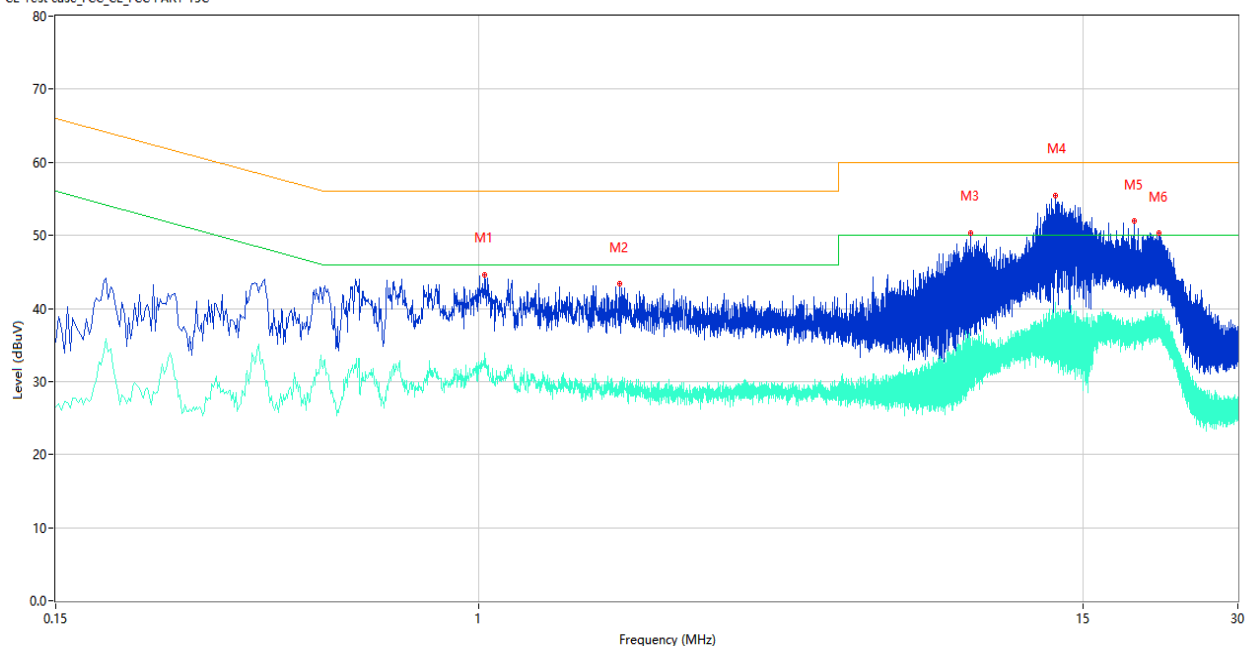
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.676	43.93	10.42	56.00	12.07	Peak	L	Pass
1**	0.676	29.19	10.42	46.00	16.81	AV	L	Pass
2	0.816	44.22	10.54	56.00	11.78	Peak	L	Pass
2**	0.816	27.72	10.54	46.00	18.28	AV	L	Pass
3	1.096	44.23	9.98	56.00	11.77	Peak	L	Pass
3**	1.096	28.61	9.98	46.00	17.39	AV	L	Pass
4	1.460	44.53	10.08	56.00	11.47	Peak	L	Pass
4**	1.460	26.98	10.08	46.00	19.02	AV	L	Pass
5	12.916	55.32	10.54	60.00	4.68	Peak	L	Pass
5**	12.916	35.95	10.54	50.00	14.05	AV	L	Pass
6	18.098	51.21	10.75	60.00	8.79	Peak	L	Pass
6**	18.098	33.49	10.75	50.00	16.51	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	1.026	44.64	10.06	56.00	11.36	Peak	N	Pass
1**	1.026	33.97	10.06	46.00	12.03	AV	N	Pass
2	1.882	43.35	10.52	56.00	12.65	Peak	N	Pass
2**	1.882	30.04	10.52	46.00	15.96	AV	N	Pass
3	9.062	50.38	10.32	60.00	9.62	Peak	N	Pass
3**	9.062	30.00	10.32	50.00	20.00	AV	N	Pass
4	13.240	55.44	10.71	60.00	4.56	Peak	N	Pass
4**	13.240	40.87	10.71	50.00	9.13	AV	N	Pass
5	18.856	51.98	10.83	60.00	8.02	Peak	N	Pass
5**	18.856	35.94	10.83	50.00	14.06	AV	N	Pass
6	21.022	50.25	11.28	60.00	9.75	Peak	N	Pass
6**	21.022	36.99	11.28	50.00	13.01	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 C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

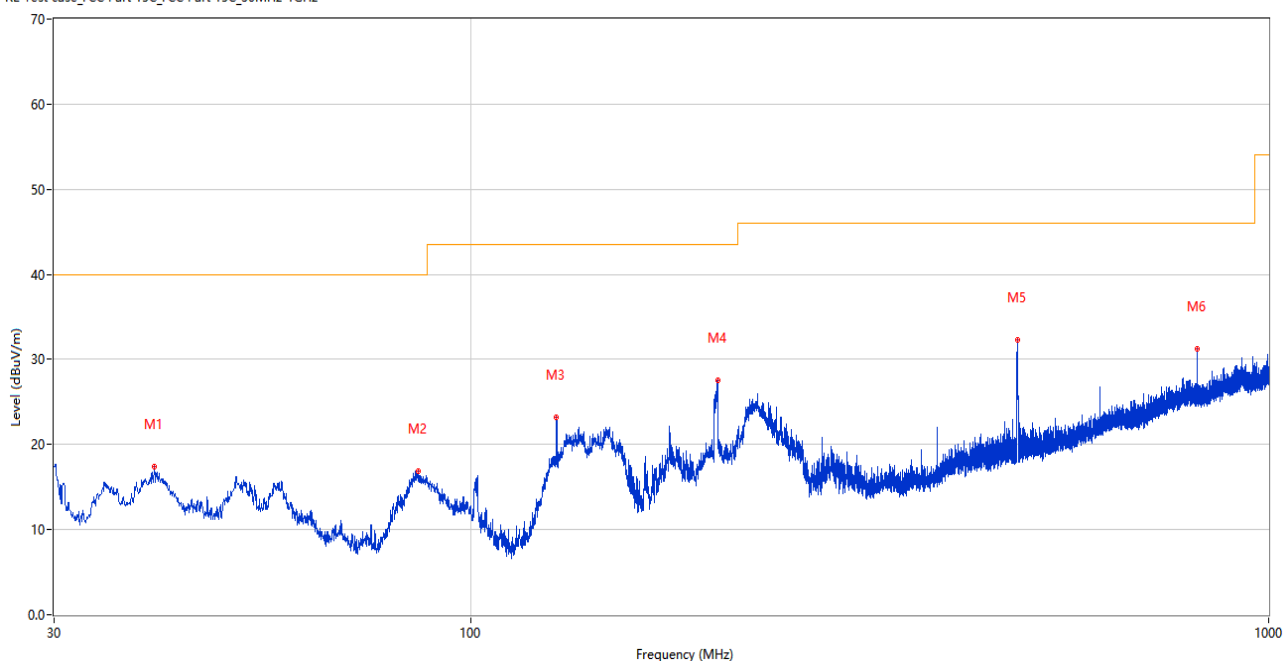
Note ³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

Test Data and Plots

30 MHz to 1 GHz, ANT H

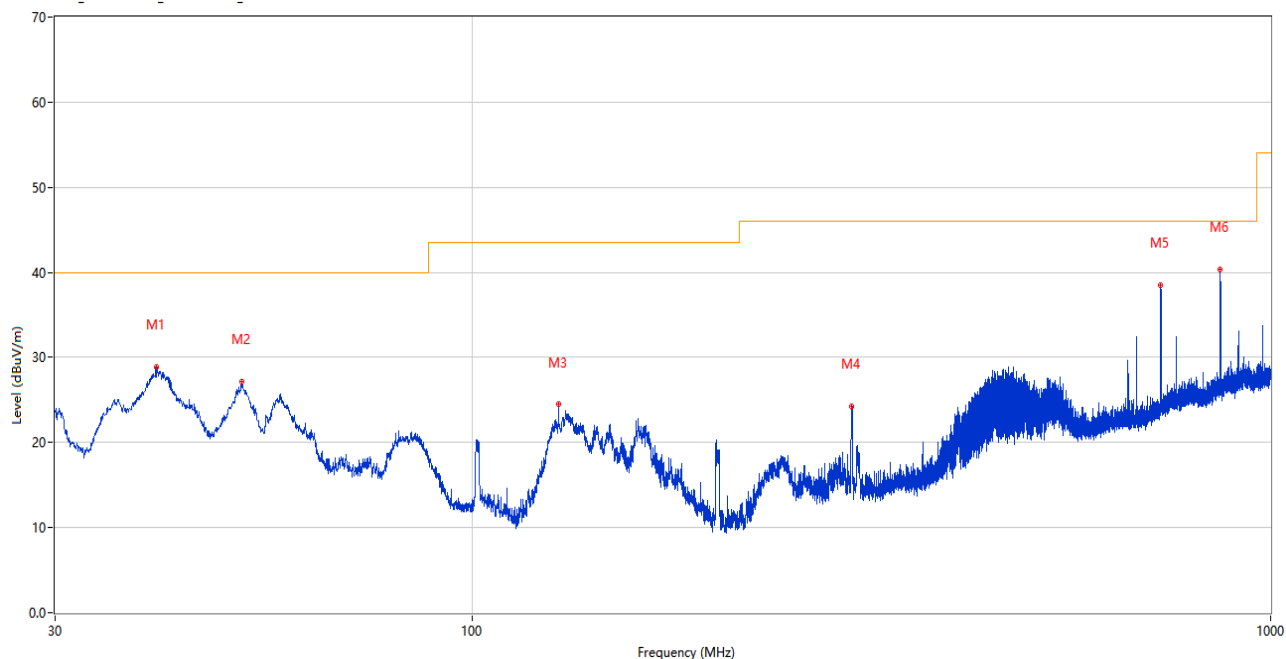
RE Test case_FCC Part 15C_FCC Part 15C_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	40.088	17.36	-29.94	40.0	22.64	Peak	221.20	200	Horizontal	Pass
2	85.824	16.86	-34.37	40.0	23.14	Peak	165.00	200	Horizontal	Pass
3	127.970	23.23	-29.88	43.5	20.27	Peak	36.80	100	Horizontal	Pass
4	203.678	27.57	-30.69	43.5	15.93	Peak	165.70	100	Horizontal	Pass
5	484.251	32.30	-20.66	46.0	13.70	Peak	359.90	100	Horizontal	Pass
6	813.906	31.26	-13.59	46.0	14.74	Peak	359.90	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC Part 15C_30MHz-1GHz



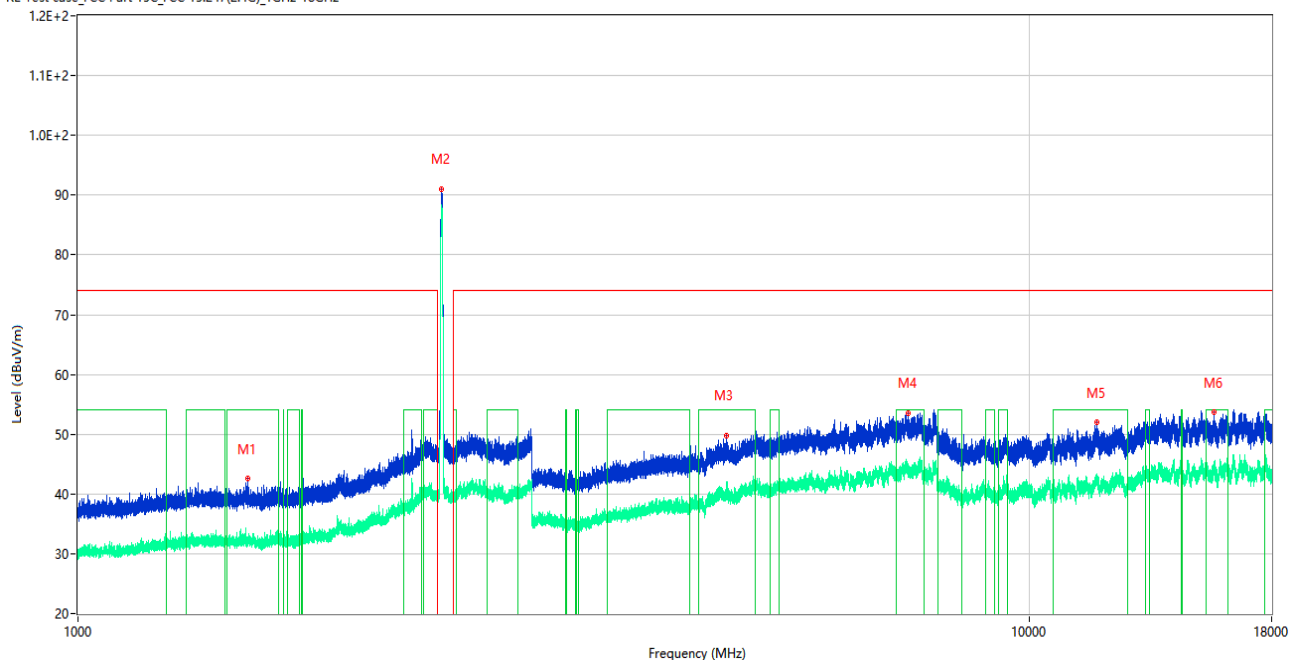
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	40.136	28.89	-29.94	40.0	11.11	Peak	45.80	100	Vertical	Pass
2	51.340	27.12	-29.30	40.0	12.88	Peak	38.20	100	Vertical	Pass
3	128.164	24.46	-29.86	43.5	19.04	Peak	127.10	100	Vertical	Pass
4	298.932	24.23	-26.24	46.0	21.77	Peak	360.00	100	Vertical	Pass
5	728.303	38.44	-14.69	46.0	7.56	Peak	360.00	100	Vertical	Pass
6	865.073	40.29	-12.32	46.0	5.71	Peak	360.00	100	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

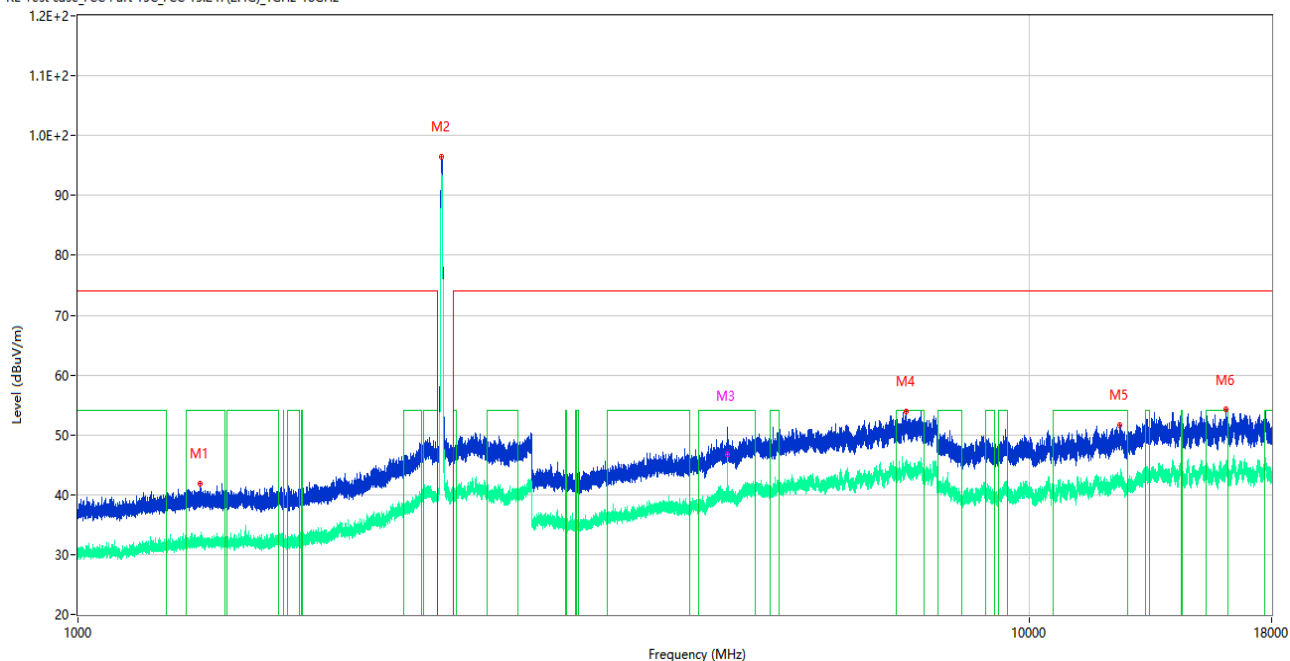
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1507.800	42.58	74.0	31.42	Peak	36.00	300	Horizontal	Pass
1**	1507.800	32.81	54.0	21.19	AV	36.00	300	Horizontal	Pass
2	2413.000	91.06	--	--	Peak	101.00	200	Horizontal	N/A
2**	2413.000	88.31	--	--	AV	101.00	200	Horizontal	N/A
3	4813.250	49.84	74.0	24.16	Peak	186.00	200	Horizontal	Pass
3**	4813.250	40.18	54.0	13.82	AV	186.00	200	Horizontal	Pass
4	7460.000	53.60	74.0	20.40	Peak	163.00	400	Horizontal	Pass
4**	7460.000	44.75	54.0	9.25	AV	163.00	400	Horizontal	Pass
5	11802.613	51.95	74.0	22.05	Peak	140.00	100	Horizontal	Pass
5**	11802.613	41.65	54.0	12.35	AV	140.00	100	Horizontal	Pass
6	15653.250	53.68	74.0	20.32	Peak	137.00	200	Horizontal	Pass
6**	15653.250	45.20	54.0	8.80	AV	137.00	200	Horizontal	Pass

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

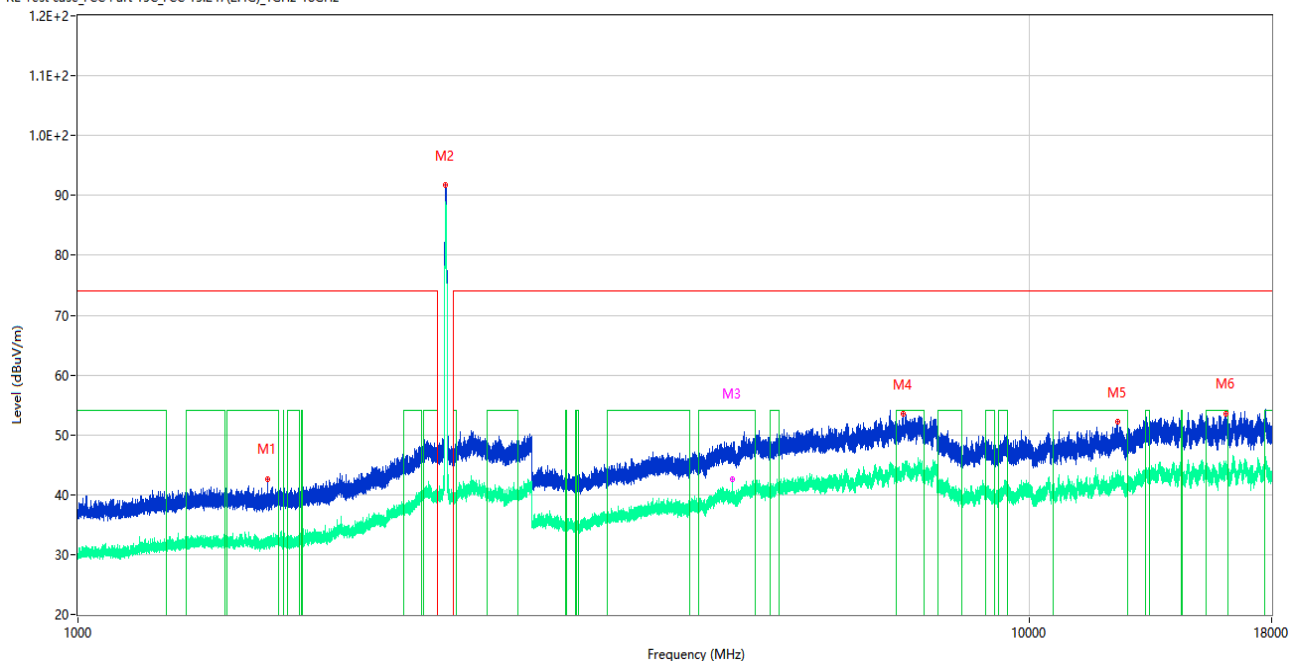
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1344.800	41.84	74.0	32.16	Peak	239.00	400	Vertical	Pass
1**	1344.800	32.91	54.0	21.09	AV	239.00	400	Vertical	Pass
2	2413.000	96.55	--	--	Peak	81.00	150	Vertical	N/A
2**	2413.000	93.68	--	--	AV	81.00	150	Vertical	N/A
3	4824.000	50.23	74.0	23.77	Peak	312.00	150	Vertical	Pass
3**	4824.000	46.76	54.0	7.24	AV	312.00	150	Vertical	Pass
4	7435.250	53.89	74.0	20.11	Peak	295.00	100	Vertical	Pass
4**	7435.250	44.74	54.0	9.26	AV	295.00	100	Vertical	Pass
5	12474.025	51.68	74.0	22.32	Peak	254.00	200	Vertical	Pass
5**	12474.025	42.57	54.0	11.43	AV	254.00	200	Vertical	Pass
6	16129.424	54.26	74.0	19.74	Peak	343.00	200	Vertical	Pass
6**	16129.424	44.16	54.0	9.84	AV	343.00	200	Vertical	Pass

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

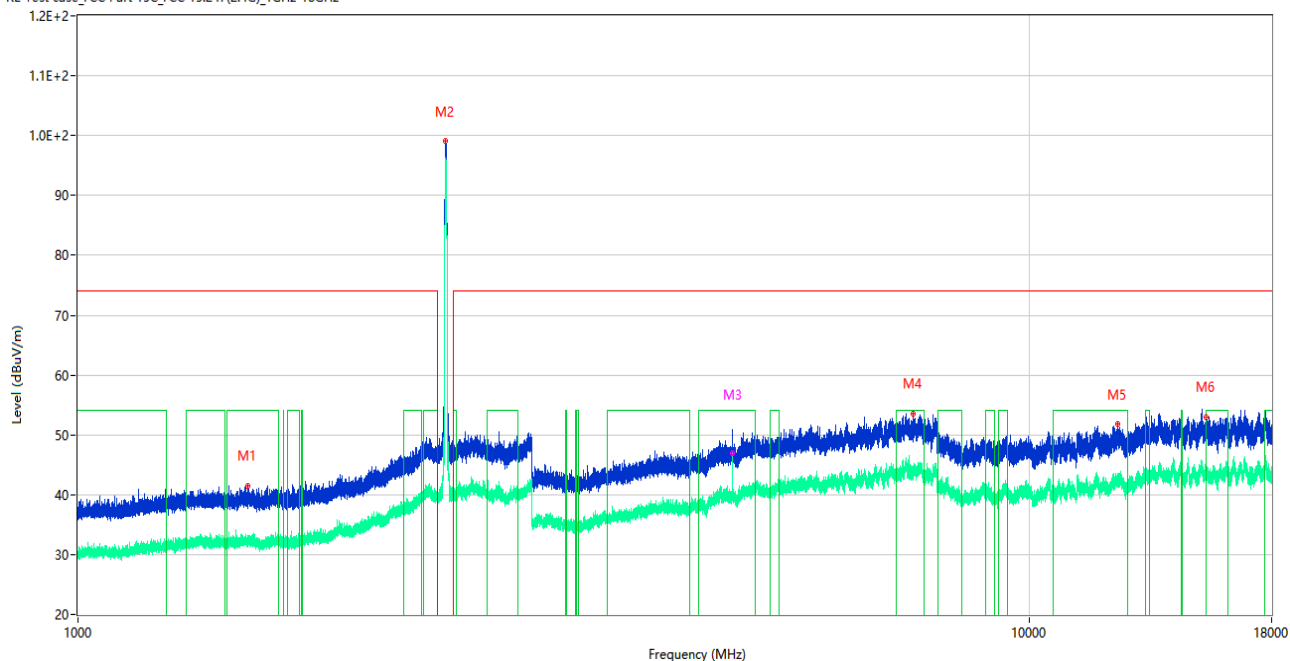
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1583.900	42.61	74.0	31.39	Peak	0.00	200	Horizontal	Pass
1**	1583.900	32.14	54.0	21.86	AV	0.00	200	Horizontal	Pass
2	2435.800	91.67	--	--	Peak	94.00	150	Horizontal	N/A
2**	2435.800	88.77	--	--	AV	94.00	150	Horizontal	N/A
3	4874.000	47.74	74.0	26.26	Peak	113.00	150	Horizontal	Pass
3**	4874.000	42.55	54.0	11.45	AV	113.00	150	Horizontal	Pass
4	7371.250	53.45	74.0	20.55	Peak	13.00	200	Horizontal	Pass
4**	7371.250	44.55	54.0	9.45	AV	13.00	200	Horizontal	Pass
5	12403.250	52.17	74.0	21.83	Peak	35.00	100	Horizontal	Pass
5**	12403.250	42.80	54.0	11.20	AV	35.00	100	Horizontal	Pass
6	16119.187	53.60	74.0	20.40	Peak	360.00	300	Horizontal	Pass
6**	16119.187	44.50	54.0	9.50	AV	360.00	300	Horizontal	Pass

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

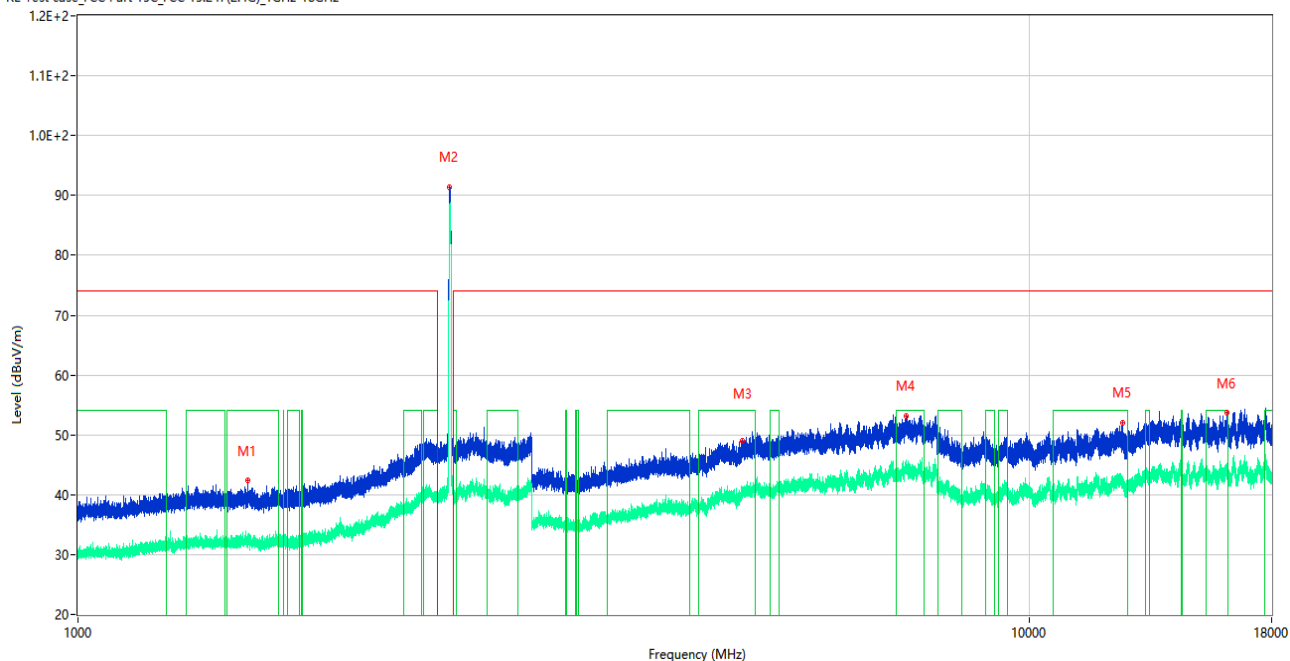
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1508.800	41.55	74.0	32.45	Peak	300.00	300	Vertical	Pass
1**	1508.800	32.14	54.0	21.86	AV	300.00	300	Vertical	Pass
2	2435.800	99.00	--	--	Peak	157.00	100	Vertical	N/A
2**	2435.800	96.11	--	--	AV	157.00	100	Vertical	N/A
3	4874.250	49.61	74.0	24.39	Peak	142.00	150	Vertical	Pass
3**	4874.250	46.90	54.0	7.10	AV	142.00	150	Vertical	Pass
4	7564.750	53.61	74.0	20.39	Peak	31.00	100	Vertical	Pass
4**	7564.750	44.20	54.0	9.80	AV	31.00	100	Vertical	Pass
5	12396.838	51.76	74.0	22.24	Peak	303.00	200	Vertical	Pass
5**	12396.838	42.21	54.0	11.79	AV	303.00	200	Vertical	Pass
6	15374.474	52.96	74.0	21.04	Peak	0.00	200	Vertical	Pass
6**	15374.474	44.18	54.0	9.82	AV	0.00	200	Vertical	Pass

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

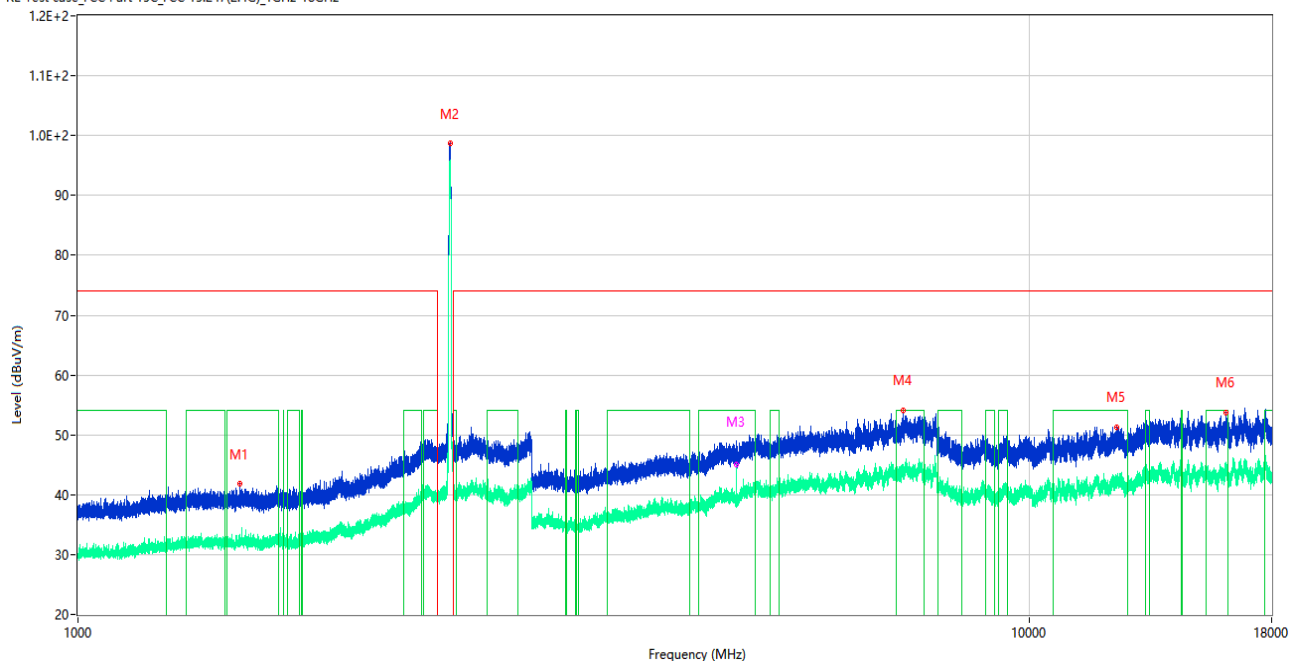
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1507.900	42.32	74.0	31.68	Peak	251.00	100	Horizontal	Pass
1**	1507.900	32.60	54.0	21.40	AV	251.00	100	Horizontal	Pass
2	2460.900	91.45	--	--	Peak	144.00	100	Horizontal	N/A
2**	2460.900	88.54	--	--	AV	144.00	100	Horizontal	N/A
3	4992.750	49.06	74.0	24.94	Peak	64.00	200	Horizontal	Pass
3**	4992.750	40.26	54.0	13.74	AV	64.00	200	Horizontal	Pass
4	7428.250	53.18	74.0	20.82	Peak	252.00	300	Horizontal	Pass
4**	7428.250	45.02	54.0	8.98	AV	252.00	300	Horizontal	Pass
5	12553.113	52.07	74.0	21.93	Peak	220.00	100	Horizontal	Pass
5**	12553.113	42.21	54.0	11.79	AV	220.00	100	Horizontal	Pass
6	16150.425	53.66	74.0	20.34	Peak	195.00	400	Horizontal	Pass
6**	16150.425	45.31	54.0	8.69	AV	195.00	400	Horizontal	Pass

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

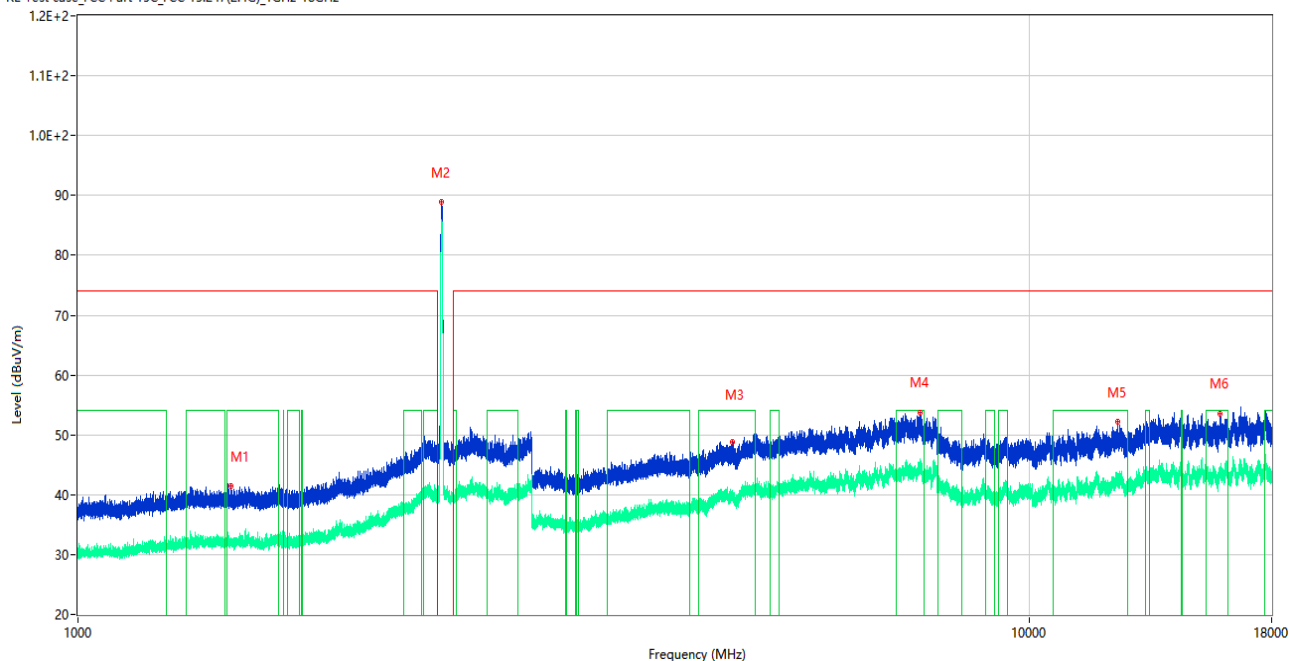
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1478.500	41.77	74.0	32.23	Peak	256.00	400	Vertical	Pass
1**	1478.500	32.23	54.0	21.77	AV	256.00	400	Vertical	Pass
2	2463.400	98.70	--	--	Peak	149.00	150	Vertical	N/A
2**	2463.400	95.81	--	--	AV	149.00	150	Vertical	N/A
3	4924.000	48.25	74.0	25.75	Peak	65.00	150	Vertical	Pass
3**	4924.000	45.06	54.0	8.94	AV	65.00	150	Vertical	Pass
4	7371.000	54.13	74.0	19.87	Peak	152.00	400	Vertical	Pass
4**	7371.000	43.73	54.0	10.27	AV	152.00	400	Vertical	Pass
5	12381.400	51.35	74.0	22.65	Peak	319.00	200	Vertical	Pass
5**	12381.400	42.12	54.0	11.88	AV	319.00	200	Vertical	Pass
6	16104.225	53.79	74.0	20.21	Peak	300.00	100	Vertical	Pass
6**	16104.225	43.29	54.0	10.71	AV	300.00	100	Vertical	Pass

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

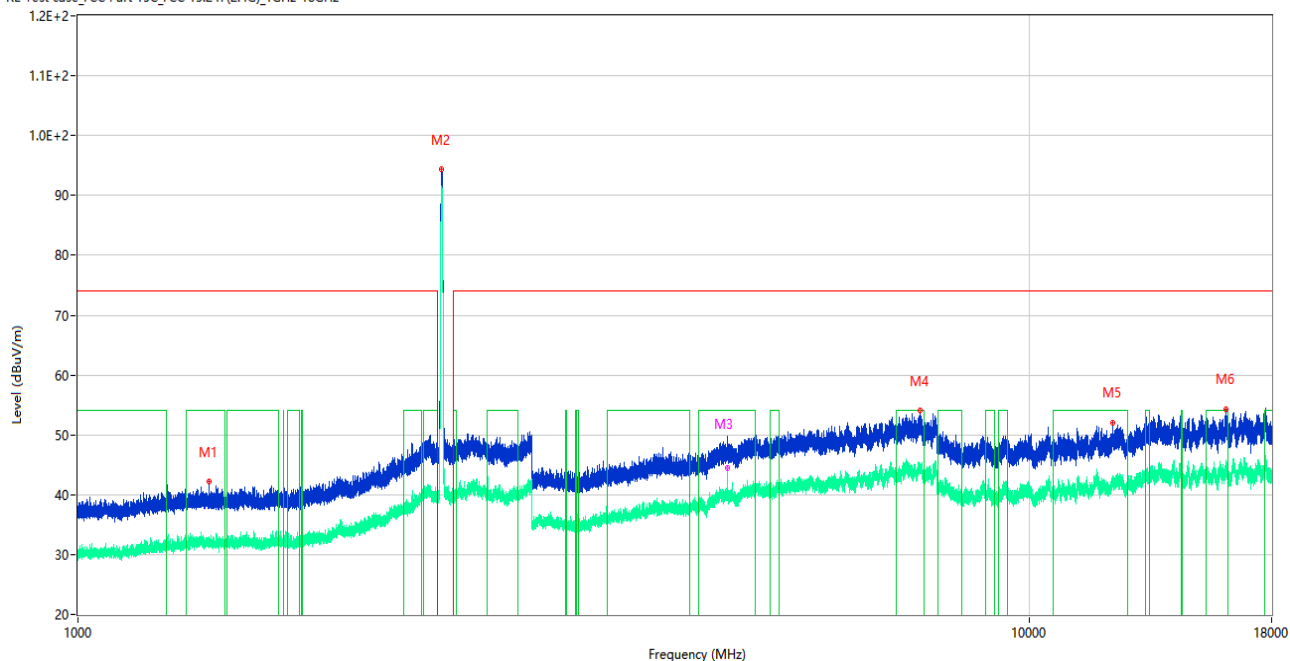
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1449.600	41.41	74.0	32.59	Peak	259.00	150	Horizontal	Pass
1**	1449.600	32.01	54.0	21.99	AV	259.00	150	Horizontal	Pass
2	2413.000	88.88	--	--	Peak	94.00	100	Horizontal	N/A
2**	2413.000	85.99	--	--	AV	94.00	100	Horizontal	N/A
3	4877.500	48.86	74.0	25.14	Peak	360.00	100	Horizontal	Pass
3**	4877.500	39.71	54.0	14.29	AV	360.00	100	Horizontal	Pass
4	7679.500	53.73	74.0	20.27	Peak	135.00	200	Horizontal	Pass
4**	7679.500	44.44	54.0	9.56	AV	135.00	200	Horizontal	Pass
5	12397.787	52.14	74.0	21.86	Peak	101.00	150	Horizontal	Pass
5**	12397.787	42.80	54.0	11.20	AV	101.00	150	Horizontal	Pass
6	15890.550	53.54	74.0	20.46	Peak	258.00	200	Horizontal	Pass
6**	15890.550	43.82	54.0	10.18	AV	258.00	200	Horizontal	Pass

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

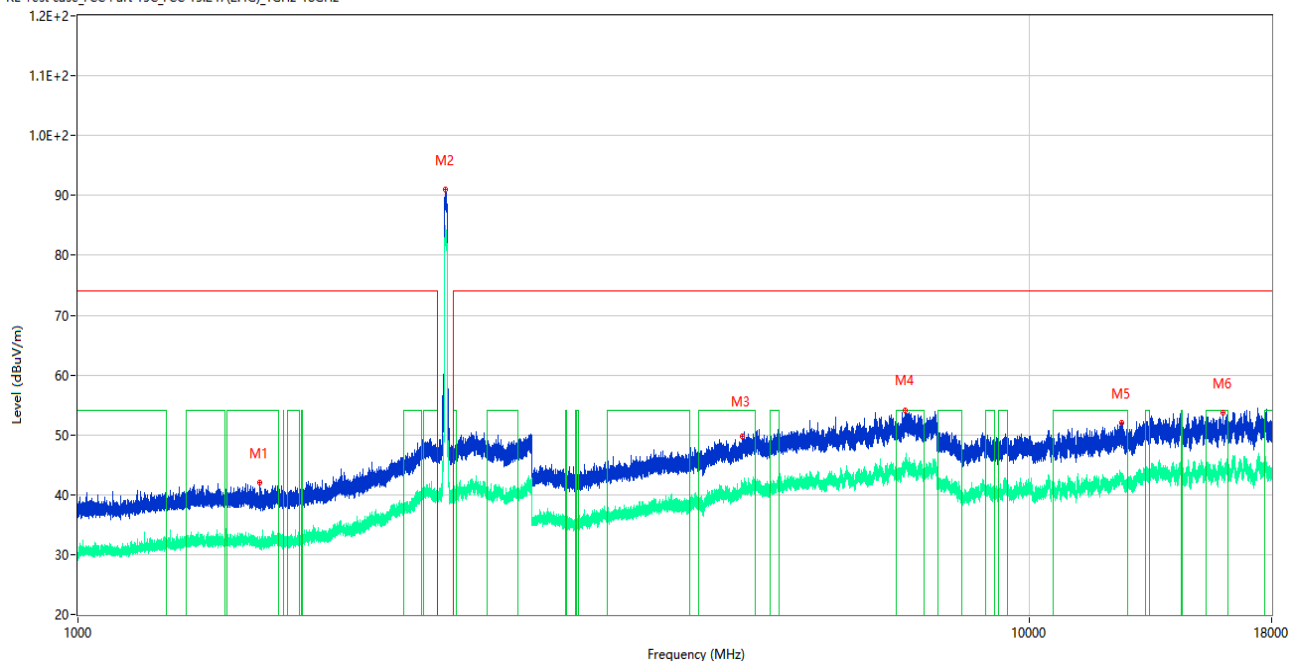
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1373.200	42.18	74.0	31.82	Peak	140.00	400	Vertical	Pass
1**	1373.200	31.86	54.0	22.14	AV	140.00	400	Vertical	Pass
2	2413.000	94.38	--	--	Peak	72.00	150	Vertical	N/A
2**	2413.000	91.46	--	--	AV	72.00	150	Vertical	N/A
3	4824.000	49.02	74.0	24.98	Peak	191.00	150	Vertical	Pass
3**	4824.000	44.48	54.0	9.52	AV	191.00	150	Vertical	Pass
4	7685.750	54.01	74.0	19.99	Peak	69.00	400	Vertical	Pass
4**	7685.750	44.78	54.0	9.22	AV	69.00	400	Vertical	Pass
5	12251.725	52.01	74.0	21.99	Peak	337.00	100	Vertical	Pass
5**	12251.725	41.73	54.0	12.27	AV	337.00	100	Vertical	Pass
6	16134.150	54.33	74.0	19.67	Peak	249.00	400	Vertical	Pass
6**	16134.150	44.26	54.0	9.74	AV	249.00	400	Vertical	Pass

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

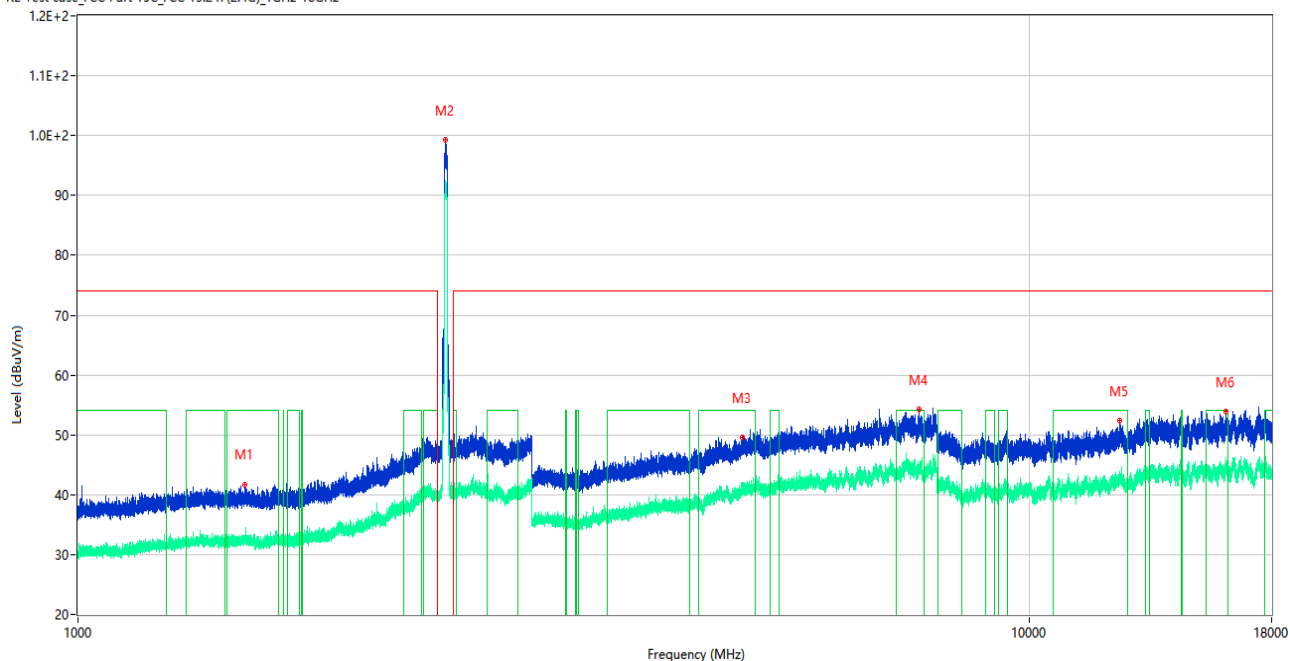
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1552.200	42.01	74.0	31.99	Peak	140.00	300	Horizontal	Pass
1**	1552.200	31.97	54.0	22.03	AV	140.00	300	Horizontal	Pass
2	2435.800	90.98	--	--	Peak	96.00	150	Horizontal	N/A
2**	2435.800	83.83	--	--	AV	96.00	150	Horizontal	N/A
3	4998.250	49.71	74.0	24.29	Peak	360.00	200	Horizontal	Pass
3**	4998.250	40.68	54.0	13.32	AV	360.00	200	Horizontal	Pass
4	7416.750	54.08	74.0	19.92	Peak	128.00	400	Horizontal	Pass
4**	7416.750	44.87	54.0	9.13	AV	128.00	400	Horizontal	Pass
5	12509.650	51.99	74.0	22.01	Peak	213.00	200	Horizontal	Pass
5**	12509.650	42.48	54.0	11.52	AV	213.00	200	Horizontal	Pass
6	15993.187	53.69	74.0	20.31	Peak	271.00	200	Horizontal	Pass
6**	15993.187	43.23	54.0	10.77	AV	271.00	200	Horizontal	Pass

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

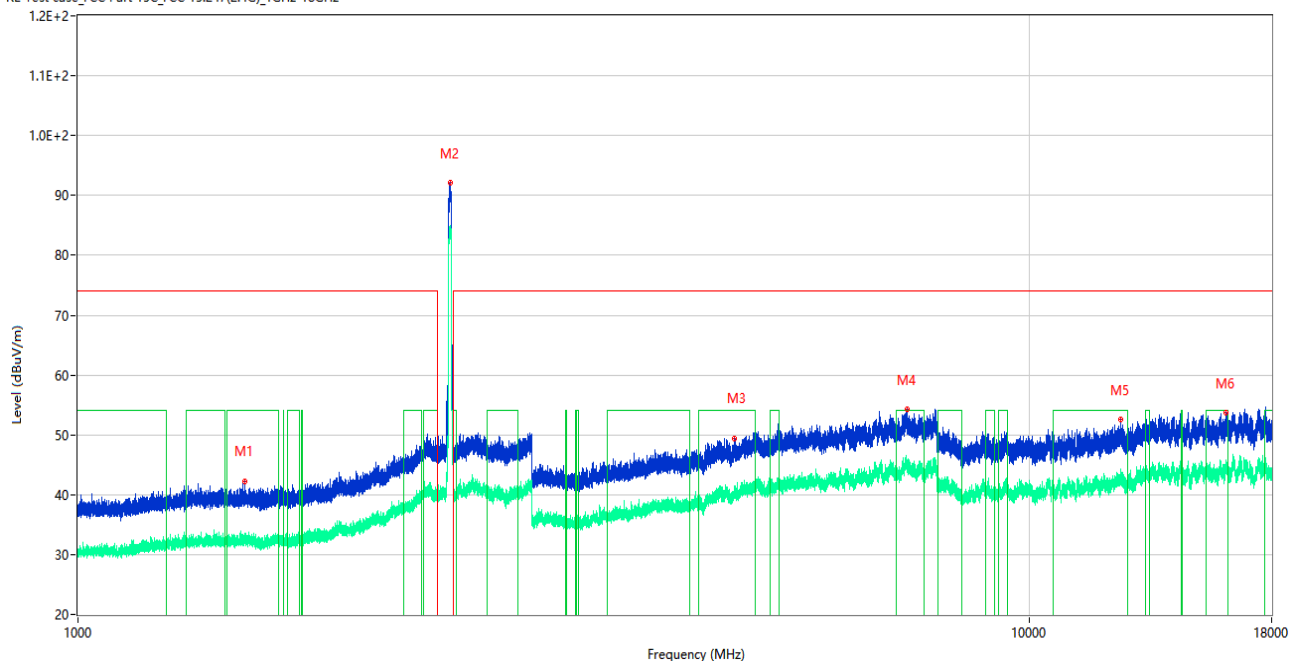
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1496.500	41.70	74.0	32.30	Peak	150.00	300	Vertical	Pass
1**	1496.500	32.07	54.0	21.93	AV	150.00	300	Vertical	Pass
2	2437.200	99.20	--	--	Peak	65.00	150	Vertical	N/A
2**	2437.200	90.04	--	--	AV	65.00	150	Vertical	N/A
3	4990.750	49.63	74.0	24.37	Peak	116.00	100	Vertical	Pass
3**	4990.750	41.22	54.0	12.78	AV	116.00	100	Vertical	Pass
4	7668.750	54.25	74.0	19.75	Peak	179.00	300	Vertical	Pass
4**	7668.750	45.04	54.0	8.96	AV	179.00	300	Vertical	Pass
5	12453.363	52.37	74.0	21.63	Peak	79.00	100	Vertical	Pass
5**	12453.363	42.11	54.0	11.89	AV	79.00	100	Vertical	Pass
6	16106.588	53.87	74.0	20.13	Peak	227.00	300	Vertical	Pass
6**	16106.588	44.08	54.0	9.92	AV	227.00	300	Vertical	Pass

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

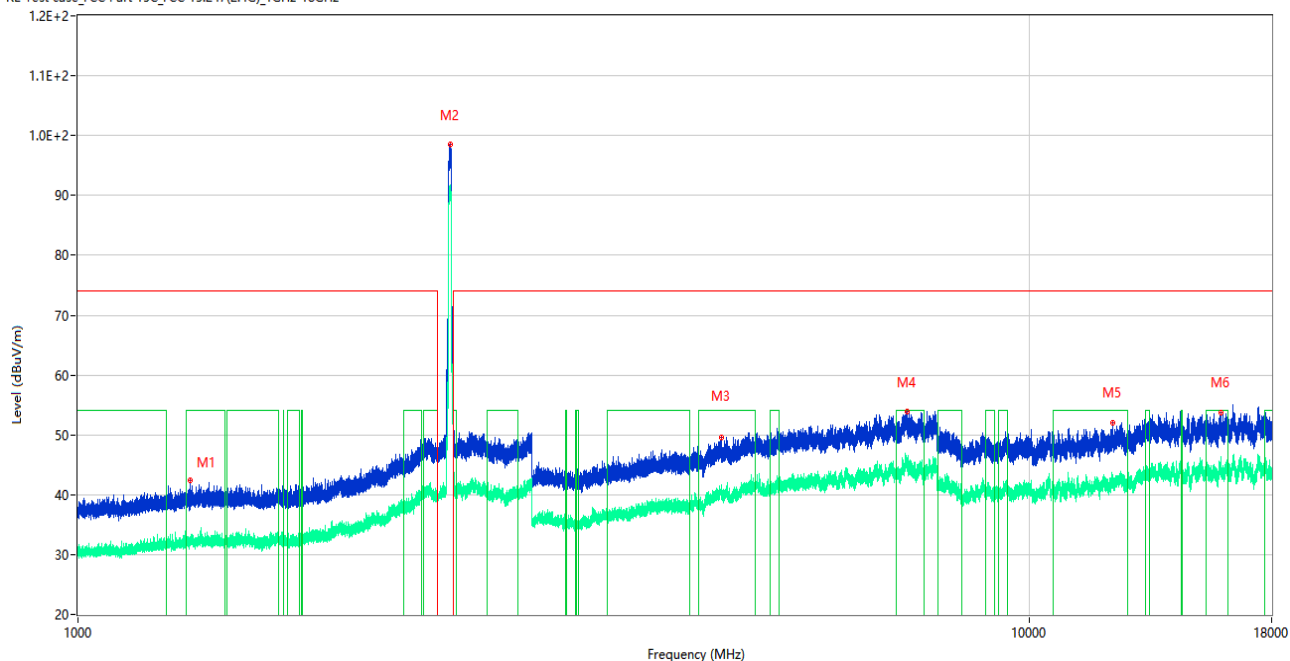
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.800	42.22	74.0	31.78	Peak	9.00	100	Horizontal	Pass
1**	1497.800	32.93	54.0	21.07	AV	9.00	100	Horizontal	Pass
2	2463.900	92.07	--	--	Peak	149.00	150	Horizontal	N/A
2**	2463.900	84.60	--	--	AV	149.00	150	Horizontal	N/A
3	4900.000	49.35	74.0	24.65	Peak	81.00	150	Horizontal	Pass
3**	4900.000	40.05	54.0	13.95	AV	81.00	150	Horizontal	Pass
4	7443.750	54.24	74.0	19.76	Peak	142.00	400	Horizontal	Pass
4**	7443.750	45.12	54.0	8.88	AV	142.00	400	Horizontal	Pass
5	12503.238	52.54	74.0	21.46	Peak	96.00	200	Horizontal	Pass
5**	12503.238	43.14	54.0	10.86	AV	96.00	200	Horizontal	Pass
6	16133.888	53.70	74.0	20.30	Peak	94.00	200	Horizontal	Pass
6**	16133.888	44.63	54.0	9.37	AV	94.00	200	Horizontal	Pass

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

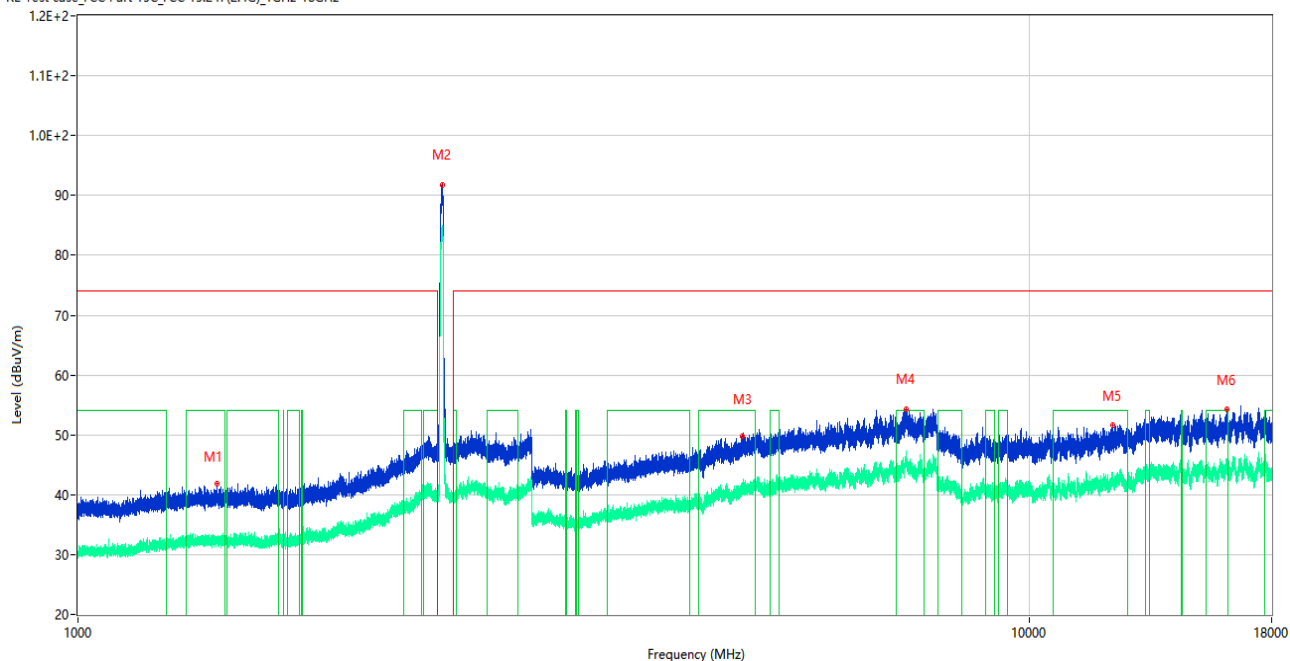
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1312.800	42.36	74.0	31.64	Peak	236.00	100	Vertical	Pass
1**	1312.800	32.65	54.0	21.35	AV	236.00	100	Vertical	Pass
2	2463.800	98.46	--	--	Peak	152.00	150	Vertical	N/A
2**	2463.800	91.32	--	--	AV	152.00	150	Vertical	N/A
3	4746.750	49.58	74.0	24.42	Peak	57.00	150	Vertical	Pass
3**	4746.750	39.90	54.0	14.10	AV	57.00	150	Vertical	Pass
4	7447.500	53.84	74.0	20.16	Peak	0.00	100	Vertical	Pass
4**	7447.500	44.30	54.0	9.70	AV	0.00	100	Vertical	Pass
5	12247.213	52.06	74.0	21.94	Peak	0.00	200	Vertical	Pass
5**	12247.213	42.83	54.0	11.17	AV	0.00	200	Vertical	Pass
6	15905.250	53.78	74.0	20.22	Peak	93.00	400	Vertical	Pass
6**	15905.250	44.54	54.0	9.46	AV	93.00	400	Vertical	Pass

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

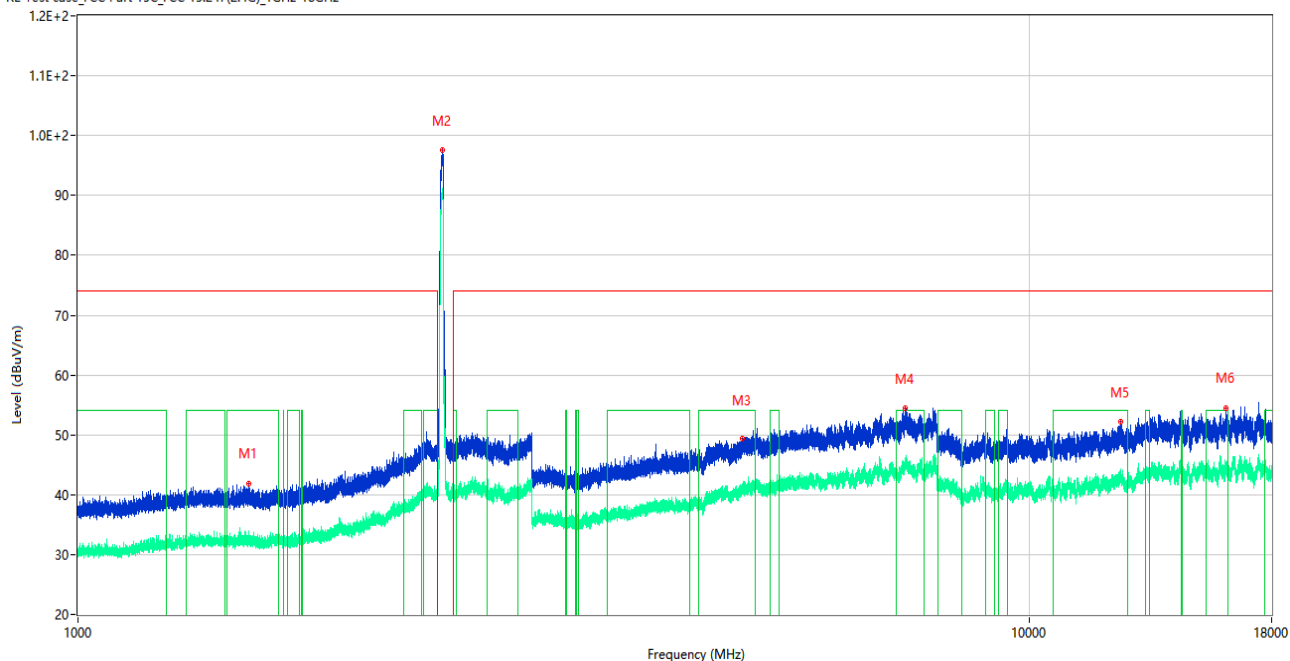
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1400.700	41.83	74.0	32.17	Peak	356.00	100	Horizontal	Pass
1**	1400.700	32.36	54.0	21.64	AV	356.00	100	Horizontal	Pass
2	2414.200	91.76	--	--	Peak	76.00	100	Horizontal	N/A
2**	2414.200	84.15	--	--	AV	76.00	100	Horizontal	N/A
3	4999.750	49.85	74.0	24.15	Peak	282.00	100	Horizontal	Pass
3**	4999.750	40.58	54.0	13.42	AV	282.00	100	Horizontal	Pass
4	7420.750	54.35	74.0	19.65	Peak	314.00	100	Horizontal	Pass
4**	7420.750	45.44	54.0	8.56	AV	314.00	100	Horizontal	Pass
5	12256.950	51.60	74.0	22.40	Peak	232.00	100	Horizontal	Pass
5**	12256.950	42.28	54.0	11.72	AV	232.00	100	Horizontal	Pass
6	16172.738	54.23	74.0	19.77	Peak	212.00	300	Horizontal	Pass
6**	16172.738	44.33	54.0	9.67	AV	212.00	300	Horizontal	Pass

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

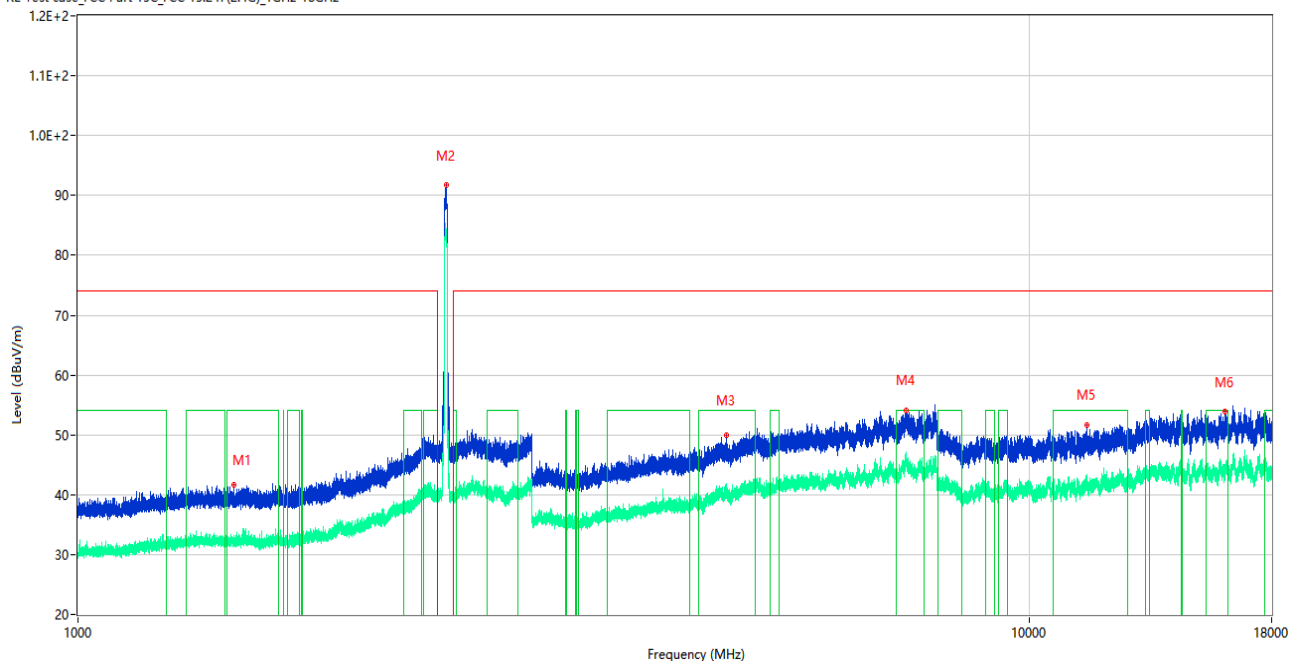
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1513.900	41.90	74.0	32.10	Peak	0.00	300	Vertical	Pass
1**	1513.900	32.00	54.0	22.00	AV	0.00	300	Vertical	Pass
2	2417.300	97.52	--	--	Peak	157.00	200	Vertical	N/A
2**	2417.300	89.69	--	--	AV	157.00	200	Vertical	N/A
3	4994.250	49.36	74.0	24.64	Peak	167.00	200	Vertical	Pass
3**	4994.250	40.68	54.0	13.32	AV	167.00	200	Vertical	Pass
4	7416.500	54.45	74.0	19.55	Peak	232.00	400	Vertical	Pass
4**	7416.500	45.79	54.0	8.21	AV	232.00	400	Vertical	Pass
5	12495.638	52.13	74.0	21.87	Peak	62.00	100	Vertical	Pass
5**	12495.638	42.71	54.0	11.29	AV	62.00	100	Vertical	Pass
6	16096.088	54.47	74.0	19.53	Peak	157.00	100	Vertical	Pass
6**	16096.088	44.34	54.0	9.66	AV	157.00	100	Vertical	Pass

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

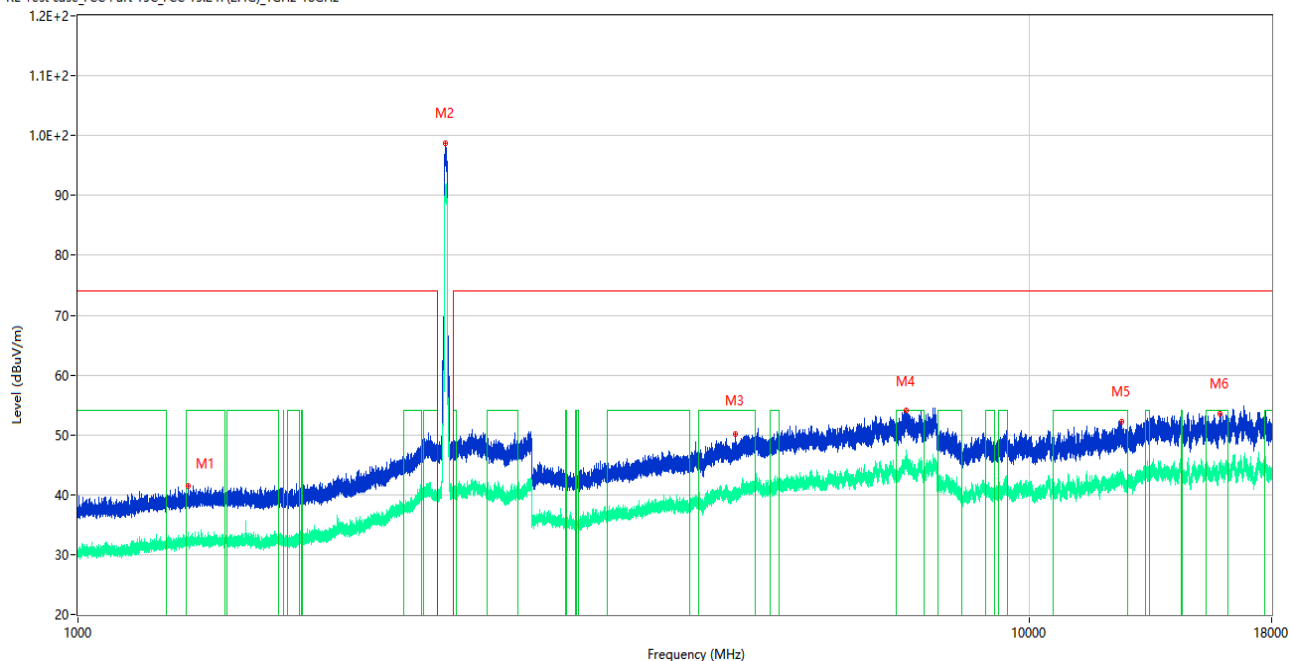
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1457.700	41.59	74.0	32.41	Peak	229.00	400	Horizontal	Pass
1**	1457.700	31.81	54.0	22.19	AV	229.00	400	Horizontal	Pass
2	2438.200	91.69	--	--	Peak	98.00	150	Horizontal	N/A
2**	2438.200	84.34	--	--	AV	98.00	150	Horizontal	N/A
3	4810.500	49.96	74.0	24.04	Peak	14.00	100	Horizontal	Pass
3**	4810.500	40.36	54.0	13.64	AV	14.00	100	Horizontal	Pass
4	7435.500	54.13	74.0	19.87	Peak	222.00	100	Horizontal	Pass
4**	7435.500	44.87	54.0	9.13	AV	222.00	100	Horizontal	Pass
5	11497.187	51.65	74.0	22.35	Peak	273.00	100	Horizontal	Pass
5**	11497.187	41.91	54.0	12.09	AV	273.00	100	Horizontal	Pass
6	16090.575	53.84	74.0	20.16	Peak	18.00	200	Horizontal	Pass
6**	16090.575	44.34	54.0	9.66	AV	18.00	200	Horizontal	Pass

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

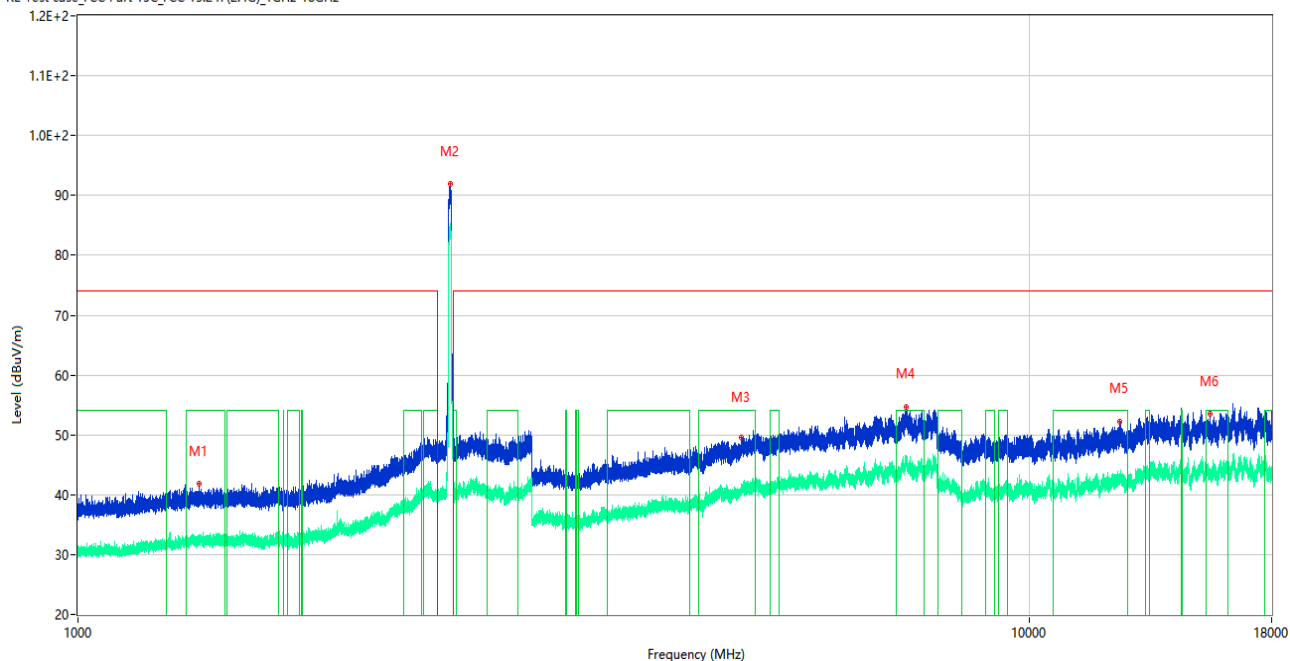
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1305.500	41.41	74.0	32.59	Peak	360.00	400	Vertical	Pass
1**	1305.500	31.92	54.0	22.08	AV	360.00	400	Vertical	Pass
2	2435.700	98.79	--	--	Peak	157.00	200	Vertical	N/A
2**	2435.700	90.90	--	--	AV	157.00	200	Vertical	N/A
3	4914.250	50.14	74.0	23.86	Peak	142.00	100	Vertical	Pass
3**	4914.250	40.59	54.0	13.41	AV	142.00	100	Vertical	Pass
4	7422.750	54.07	74.0	19.93	Peak	332.00	100	Vertical	Pass
4**	7422.750	46.09	54.0	7.91	AV	332.00	100	Vertical	Pass
5	12509.412	52.21	74.0	21.79	Peak	62.00	150	Vertical	Pass
5**	12509.412	42.41	54.0	11.59	AV	62.00	150	Vertical	Pass
6	15872.963	53.59	74.0	20.41	Peak	113.00	100	Vertical	Pass
6**	15872.963	44.16	54.0	9.84	AV	113.00	100	Vertical	Pass

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

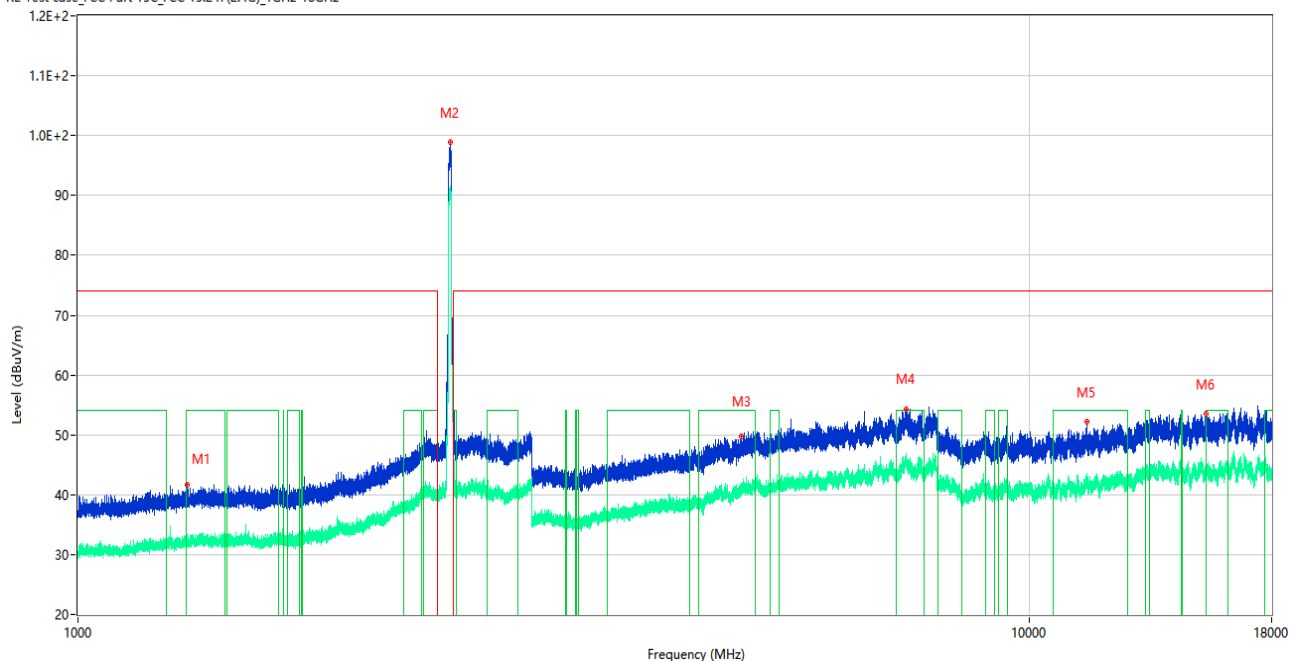
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1341.400	41.86	74.0	32.14	Peak	222.00	300	Horizontal	Pass
1**	1341.400	31.88	54.0	22.12	AV	222.00	300	Horizontal	Pass
2	2463.700	91.86	--	--	Peak	149.00	200	Horizontal	N/A
2**	2463.700	83.92	--	--	AV	149.00	200	Horizontal	N/A
3	4984.250	49.49	74.0	24.51	Peak	166.00	100	Horizontal	Pass
3**	4984.250	40.40	54.0	13.60	AV	166.00	100	Horizontal	Pass
4	7422.250	54.59	74.0	19.41	Peak	265.00	400	Horizontal	Pass
4**	7422.250	45.49	54.0	8.51	AV	265.00	400	Horizontal	Pass
5	12467.375	52.25	74.0	21.75	Peak	101.00	100	Horizontal	Pass
5**	12467.375	42.62	54.0	11.38	AV	101.00	100	Horizontal	Pass
6	15501.000	53.51	74.0	20.49	Peak	345.00	400	Horizontal	Pass
6**	15501.000	44.06	54.0	9.94	AV	345.00	400	Horizontal	Pass

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

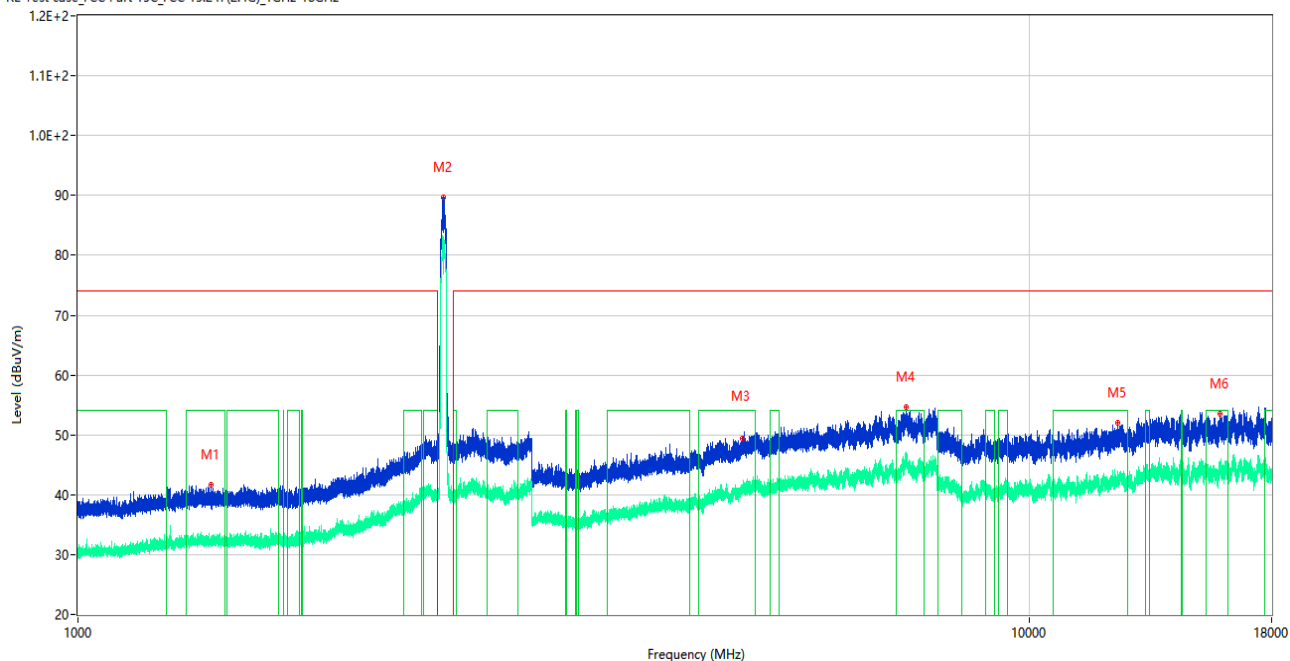
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1303.000	41.73	74.0	32.27	Peak	221.00	200	Vertical	Pass
1**	1303.000	32.76	54.0	21.24	AV	221.00	200	Vertical	Pass
2	2464.900	98.86	--	--	Peak	160.00	100	Vertical	N/A
2**	2464.900	90.59	--	--	AV	160.00	100	Vertical	N/A
3	4986.250	49.67	74.0	24.33	Peak	360.00	200	Vertical	Pass
3**	4986.250	41.36	54.0	12.64	AV	360.00	200	Vertical	Pass
4	7421.500	54.37	74.0	19.63	Peak	0.00	100	Vertical	Pass
4**	7421.500	45.58	54.0	8.42	AV	0.00	100	Vertical	Pass
5	11495.763	52.12	74.0	21.88	Peak	222.00	100	Vertical	Pass
5**	11495.763	41.82	54.0	12.18	AV	222.00	100	Vertical	Pass
6	15368.700	53.49	74.0	20.51	Peak	132.00	200	Vertical	Pass
6**	15368.700	43.98	54.0	10.02	AV	132.00	200	Vertical	Pass

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

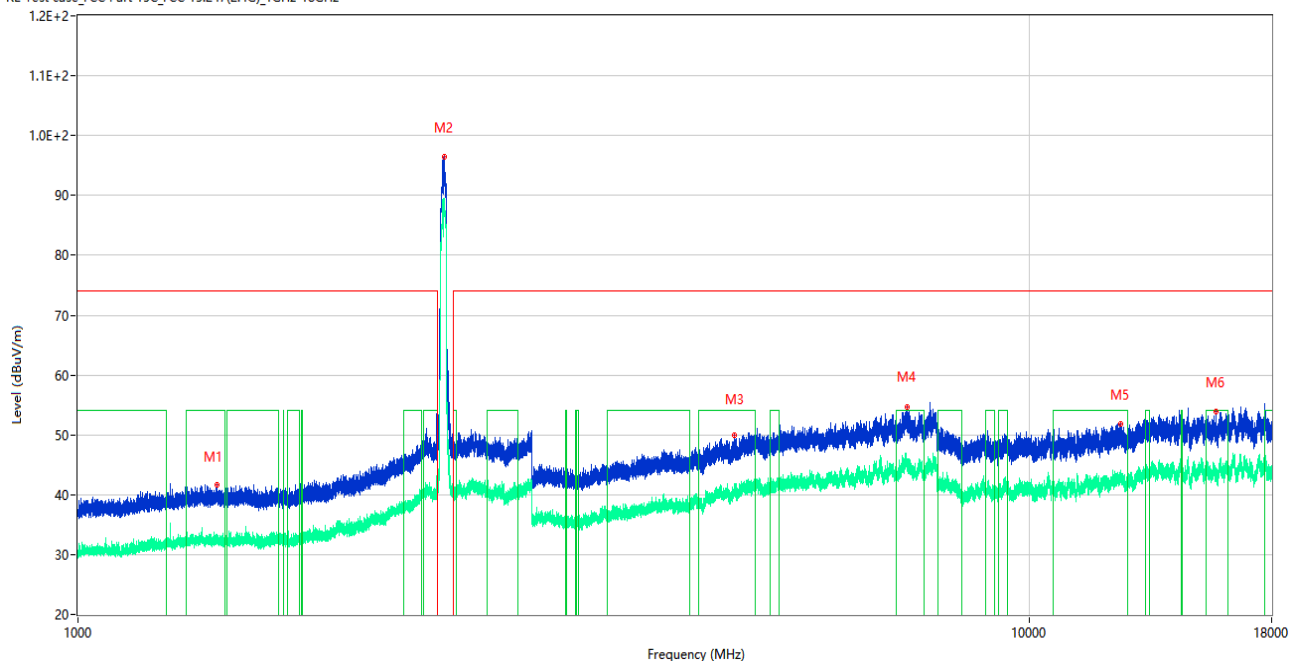
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1380.300	41.66	74.0	32.34	Peak	0.00	400	Horizontal	Pass
1**	1380.300	32.18	54.0	21.82	AV	0.00	400	Horizontal	Pass
2	2423.600	89.71	--	--	Peak	91.00	100	Horizontal	N/A
2**	2423.600	82.56	--	--	AV	91.00	100	Horizontal	N/A
3	4990.500	49.37	74.0	24.63	Peak	232.00	100	Horizontal	Pass
3**	4990.500	41.03	54.0	12.97	AV	232.00	100	Horizontal	Pass
4	7425.500	54.65	74.0	19.35	Peak	232.00	100	Horizontal	Pass
4**	7425.500	45.97	54.0	8.03	AV	232.00	100	Horizontal	Pass
5	12390.187	52.07	74.0	21.93	Peak	68.00	100	Horizontal	Pass
5**	12390.187	42.27	54.0	11.73	AV	68.00	100	Horizontal	Pass
6	15884.250	53.57	74.0	20.43	Peak	105.00	200	Horizontal	Pass
6**	15884.250	44.98	54.0	9.02	AV	105.00	200	Horizontal	Pass

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

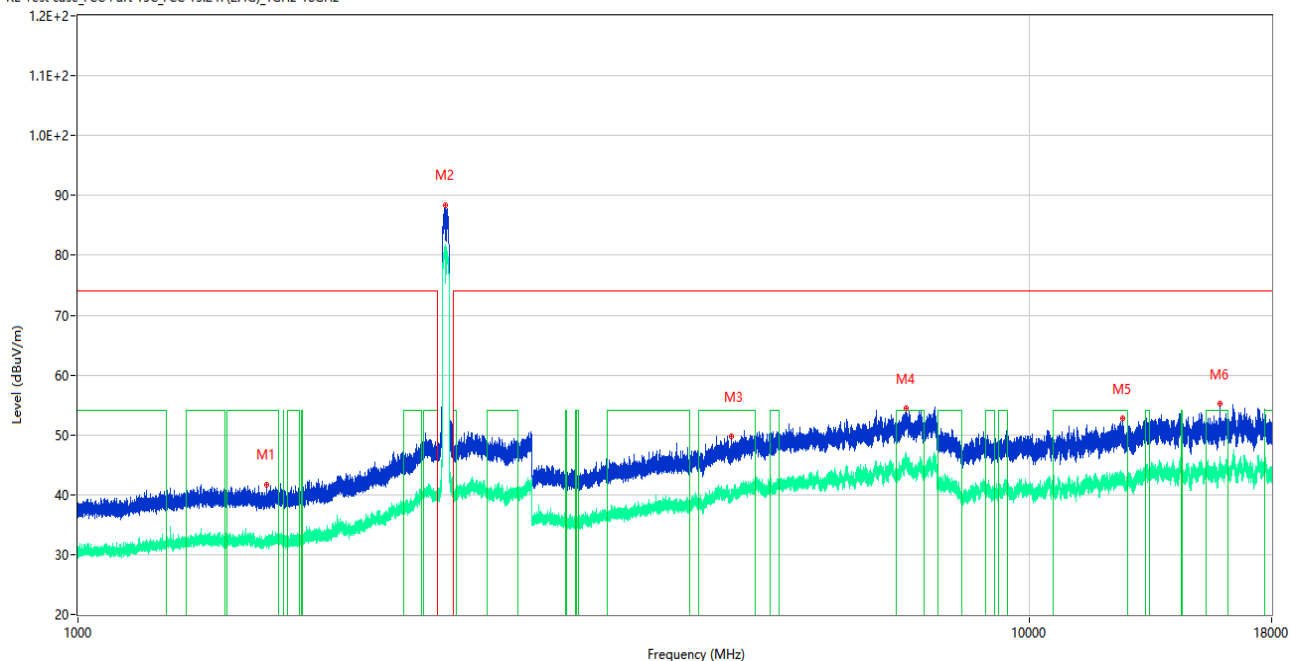
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1399.300	41.71	74.0	32.29	Peak	213.00	150	Vertical	Pass
1**	1399.300	32.71	54.0	21.29	AV	213.00	150	Vertical	Pass
2	2426.200	96.38	--	--	Peak	150.00	150	Vertical	N/A
2**	2426.200	88.80	--	--	AV	150.00	150	Vertical	N/A
3	4905.500	49.97	74.0	24.03	Peak	353.00	150	Vertical	Pass
3**	4905.500	40.48	54.0	13.52	AV	353.00	150	Vertical	Pass
4	7441.000	54.73	74.0	19.27	Peak	256.00	200	Vertical	Pass
4**	7441.000	45.36	54.0	8.64	AV	256.00	200	Vertical	Pass
5	12477.825	51.80	74.0	22.20	Peak	247.00	200	Vertical	Pass
5**	12477.825	43.02	54.0	10.98	AV	247.00	200	Vertical	Pass
6	15720.188	53.83	74.0	20.17	Peak	227.00	200	Vertical	Pass
6**	15720.188	43.91	54.0	10.09	AV	227.00	200	Vertical	Pass

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

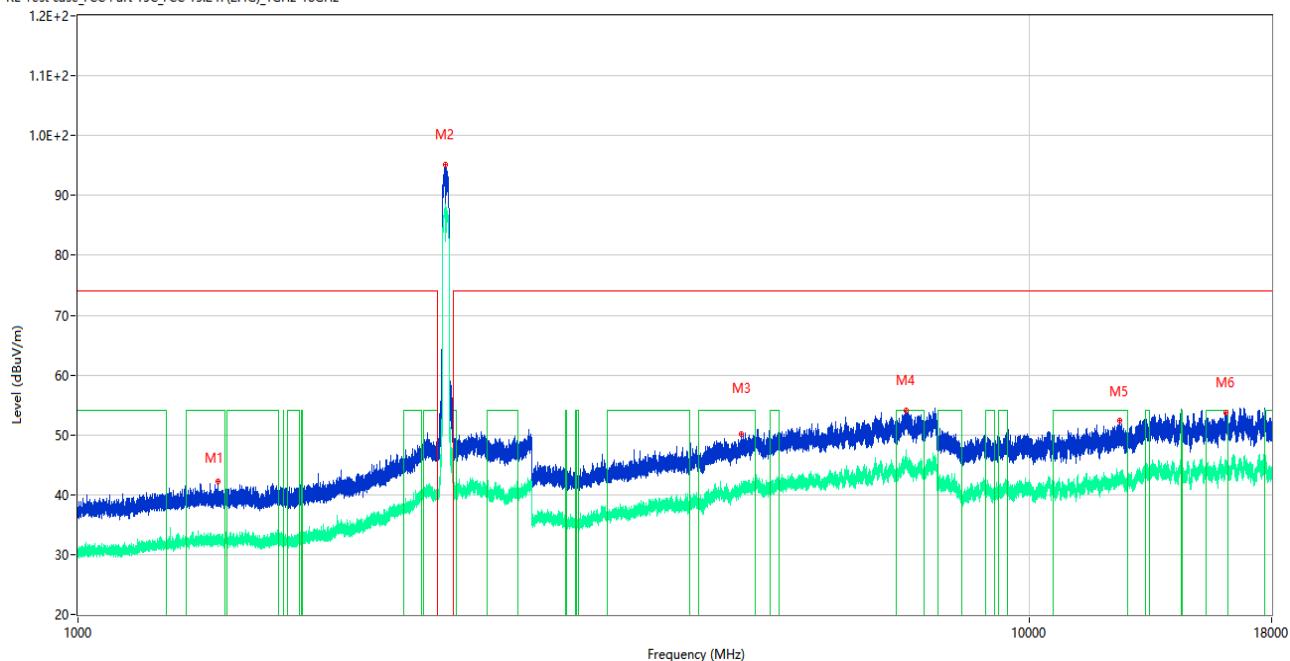
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1578.500	41.71	74.0	32.29	Peak	244.00	200	Horizontal	Pass
1**	1578.500	31.95	54.0	22.05	AV	244.00	200	Horizontal	Pass
2	2434.600	88.38	--	--	Peak	103.00	100	Horizontal	N/A
2**	2434.600	80.77	--	--	AV	103.00	100	Horizontal	N/A
3	4863.500	49.81	74.0	24.19	Peak	336.00	200	Horizontal	Pass
3**	4863.500	39.28	54.0	14.72	AV	336.00	200	Horizontal	Pass
4	7422.500	54.45	74.0	19.55	Peak	0.00	100	Horizontal	Pass
4**	7422.500	46.23	54.0	7.77	AV	0.00	100	Horizontal	Pass
5	12547.888	52.69	74.0	21.31	Peak	243.00	200	Horizontal	Pass
5**	12547.888	43.20	54.0	10.80	AV	243.00	200	Horizontal	Pass
6	15876.901	55.18	74.0	18.82	Peak	281.00	400	Horizontal	Pass
6**	15876.901	44.45	54.0	9.55	AV	281.00	400	Horizontal	Pass

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

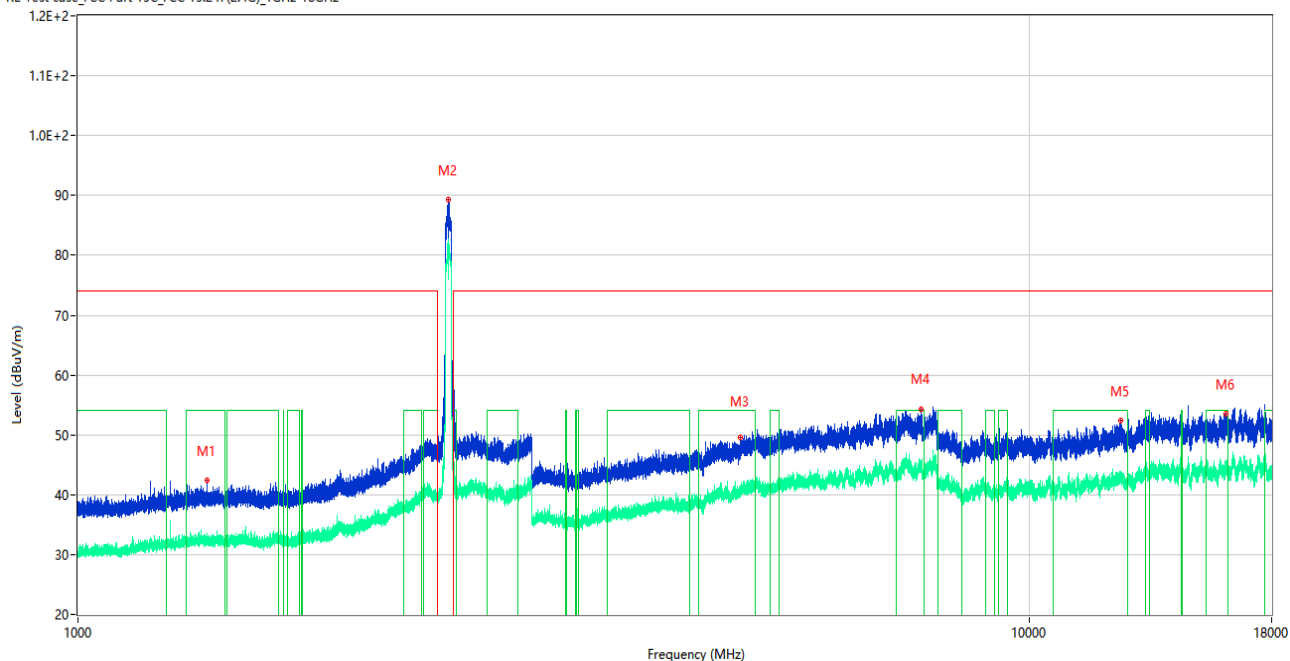
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1404.300	42.18	74.0	31.82	Peak	334.00	400	Vertical	Pass
1**	1404.300	32.48	54.0	21.52	AV	334.00	400	Vertical	Pass
2	2434.300	95.21	--	--	Peak	164.00	150	Vertical	N/A
2**	2434.300	87.65	--	--	AV	164.00	150	Vertical	N/A
3	4983.750	50.18	74.0	23.82	Peak	0.00	150	Vertical	Pass
3**	4983.750	40.85	54.0	13.15	AV	0.00	150	Vertical	Pass
4	7424.750	54.18	74.0	19.82	Peak	58.00	100	Vertical	Pass
4**	7424.750	45.77	54.0	8.23	AV	58.00	100	Vertical	Pass
5	12473.075	52.34	74.0	21.66	Peak	0.00	200	Vertical	Pass
5**	12473.075	42.71	54.0	11.29	AV	0.00	200	Vertical	Pass
6	16132.838	53.78	74.0	20.22	Peak	66.00	400	Vertical	Pass
6**	16132.838	45.43	54.0	8.57	AV	66.00	400	Vertical	Pass

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

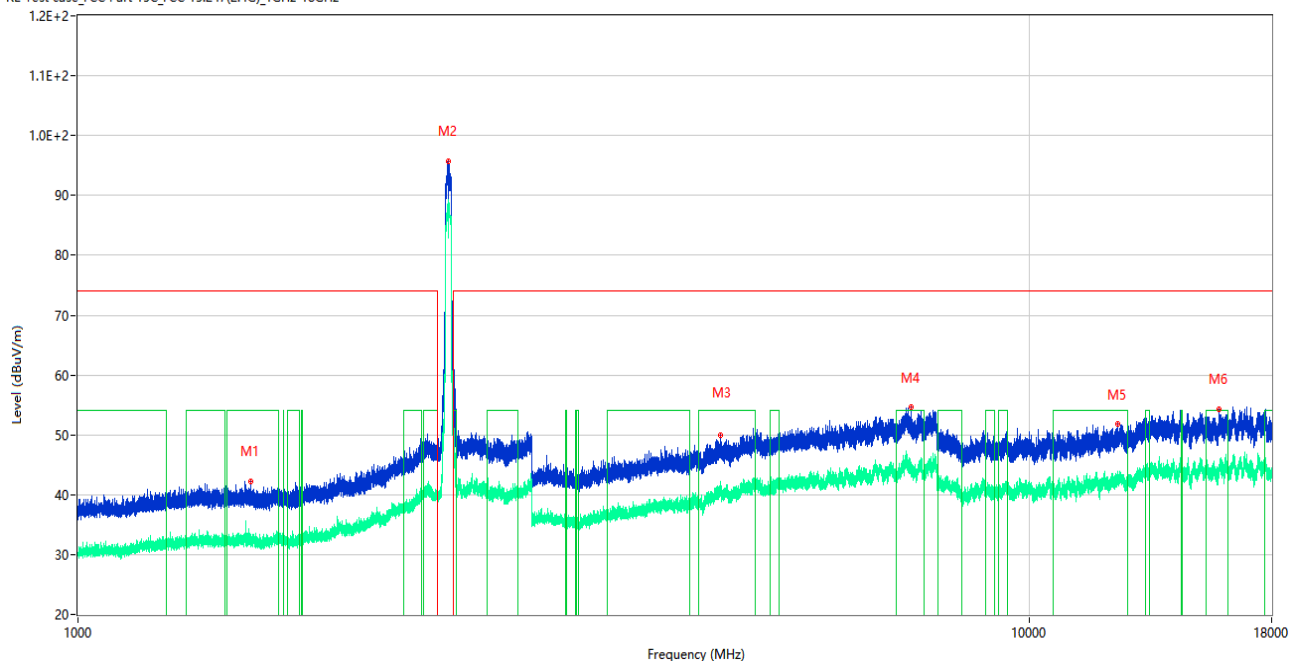
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1368.000	42.32	74.0	31.68	Peak	52.00	400	Horizontal	Pass
1**	1368.000	32.69	54.0	21.31	AV	52.00	400	Horizontal	Pass
2	2453.600	89.25	--	--	Peak	161.00	100	Horizontal	N/A
2**	2453.600	80.91	--	--	AV	161.00	100	Horizontal	N/A
3	4970.000	49.58	74.0	24.42	Peak	68.00	150	Horizontal	Pass
3**	4970.000	39.67	54.0	14.33	AV	68.00	150	Horizontal	Pass
4	7706.250	54.34	74.0	19.66	Peak	102.00	200	Horizontal	Pass
4**	7706.250	45.33	54.0	8.67	AV	102.00	200	Horizontal	Pass
5	12502.762	52.34	74.0	21.66	Peak	34.00	150	Horizontal	Pass
5**	12502.762	43.25	54.0	10.75	AV	34.00	150	Horizontal	Pass
6	16097.662	53.50	74.0	20.50	Peak	31.00	200	Horizontal	Pass
6**	16097.662	45.18	54.0	8.82	AV	31.00	200	Horizontal	Pass

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

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



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1519.100	42.23	74.0	31.77	Peak	105.00	100	Vertical	Pass
1**	1519.100	31.88	54.0	22.12	AV	105.00	100	Vertical	Pass
2	2453.600	95.74	--	--	Peak	89.00	200	Vertical	N/A
2**	2453.600	88.45	--	--	AV	89.00	200	Vertical	N/A
3	4734.000	49.98	74.0	24.02	Peak	325.00	200	Vertical	Pass
3**	4734.000	40.07	54.0	13.93	AV	325.00	200	Vertical	Pass
4	7518.250	54.64	74.0	19.36	Peak	291.00	200	Vertical	Pass
4**	7518.250	44.92	54.0	9.08	AV	291.00	200	Vertical	Pass
5	12388.525	51.77	74.0	22.23	Peak	180.00	100	Vertical	Pass
5**	12388.525	42.61	54.0	11.39	AV	180.00	100	Vertical	Pass
6	15861.412	54.28	74.0	19.72	Peak	168.00	300	Vertical	Pass
6**	15861.412	43.83	54.0	10.17	AV	168.00	300	Vertical	Pass

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

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

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

Note ³: According the ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ⁴: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

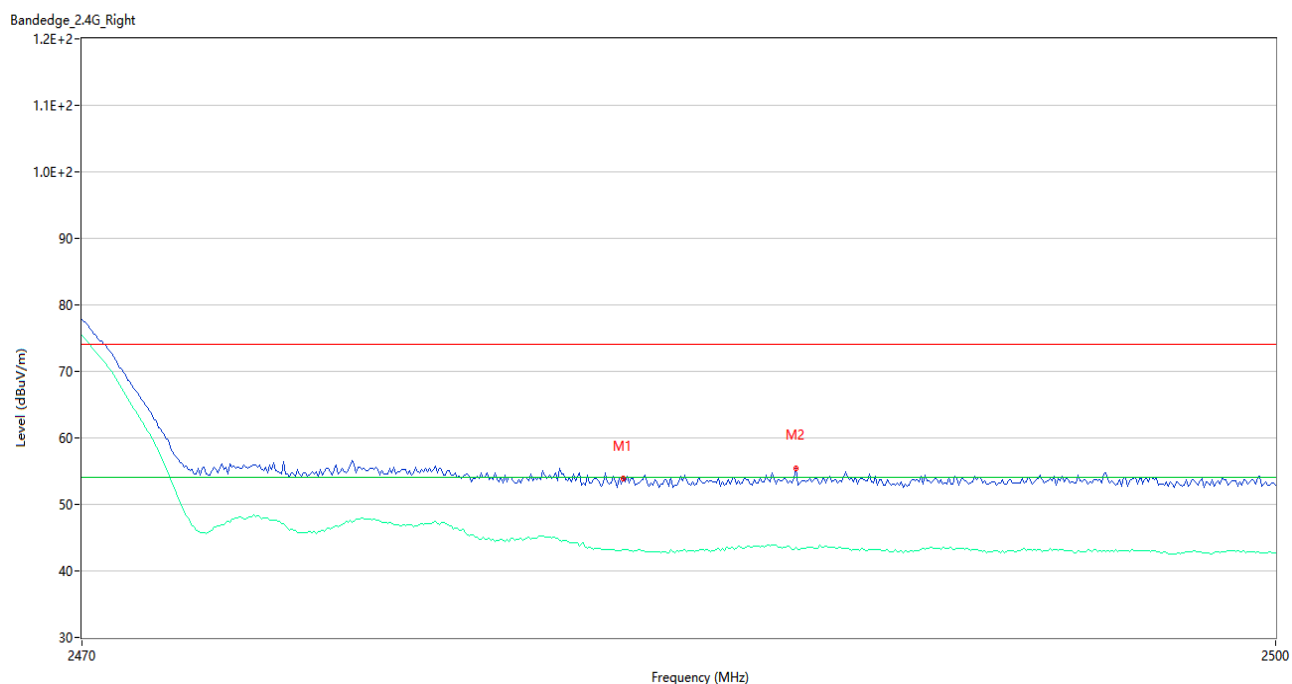
Test Data and Plots

802.11b LOW CHANNEL



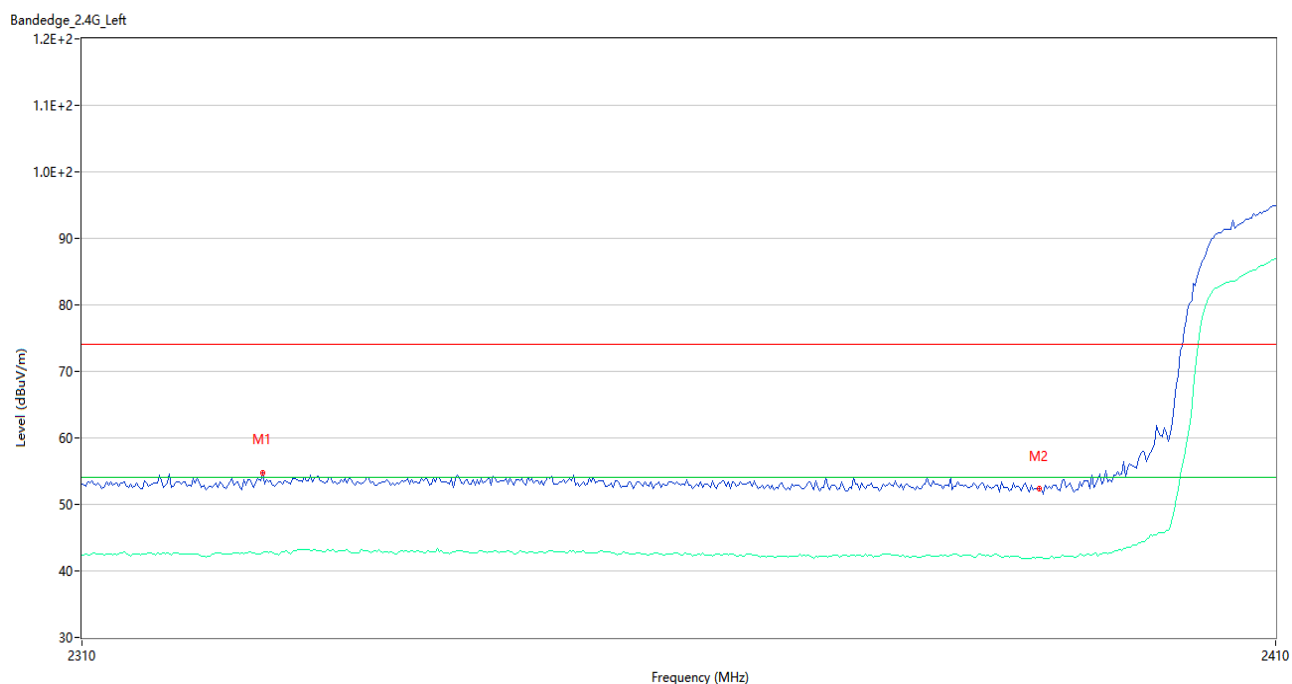
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2339.000	55.39	74.0	18.61	Peak	159.00	100	Vertical	Pass
1**	2339.000	43.08	54.0	10.92	AV	159.00	100	Vertical	Pass
2	2389.833	52.36	74.0	21.64	Peak	268.00	100	Vertical	Pass
2**	2389.833	42.06	54.0	11.94	AV	268.00	100	Vertical	Pass

802.11b HIGH CHANNEL



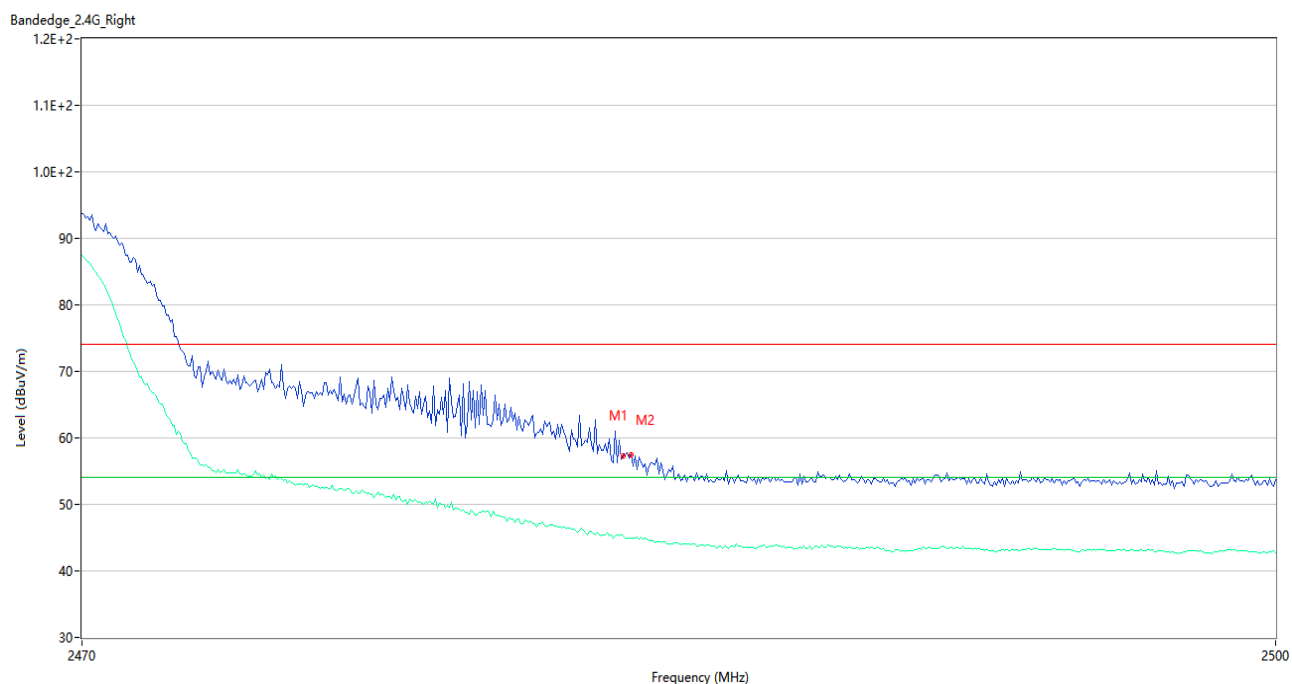
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	53.83	74.0	20.17	Peak	246.00	100	Vertical	Pass
1**	2483.550	43.22	54.0	10.78	AV	246.00	100	Vertical	Pass
2	2487.900	55.50	74.0	18.50	Peak	0.00	200	Vertical	Pass
2**	2487.900	43.55	54.0	10.45	AV	0.00	200	Vertical	Pass

802.11g LOW CHANNEL



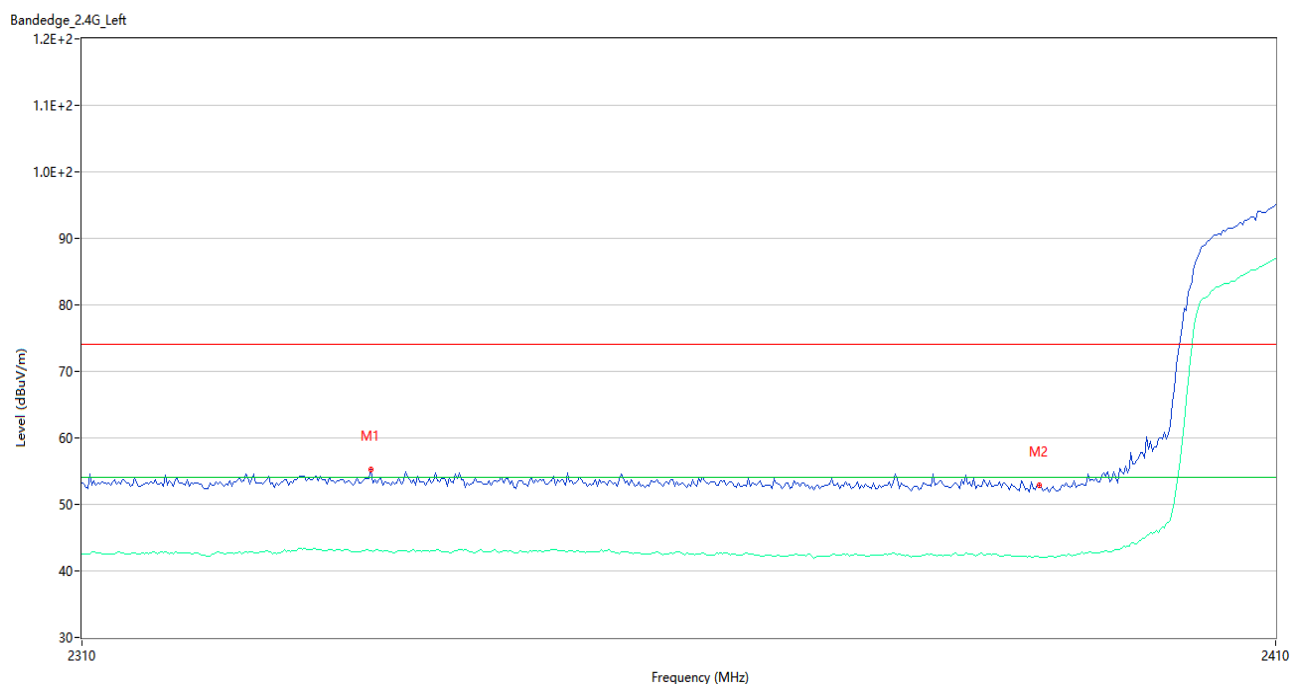
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2324.833	54.76	74.0	19.24	Peak	350.00	150	Vertical	Pass
1**	2324.833	42.69	54.0	11.31	AV	350.00	150	Vertical	Pass
2	2389.833	52.37	74.0	21.63	Peak	154.00	100	Vertical	Pass
2**	2389.833	41.96	54.0	12.04	AV	154.00	100	Vertical	Pass

802.11g HIGH CHANNEL



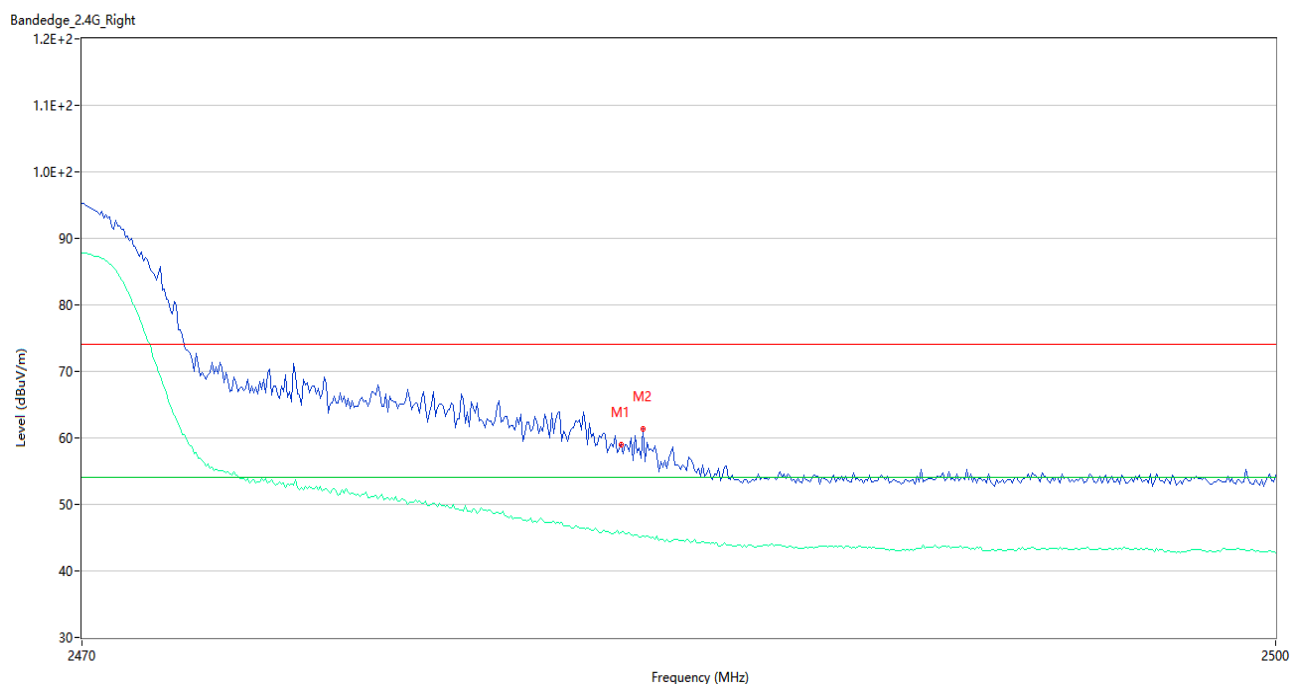
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	57.21	74.0	16.79	Peak	261.00	150	Vertical	Pass
1**	2483.550	45.17	54.0	8.83	AV	261.00	150	Vertical	Pass
2	2483.750	57.47	74.0	16.53	Peak	149.00	150	Vertical	Pass
2**	2483.750	44.91	54.0	9.09	AV	149.00	150	Vertical	Pass

802.11n20 LOW CHANNEL



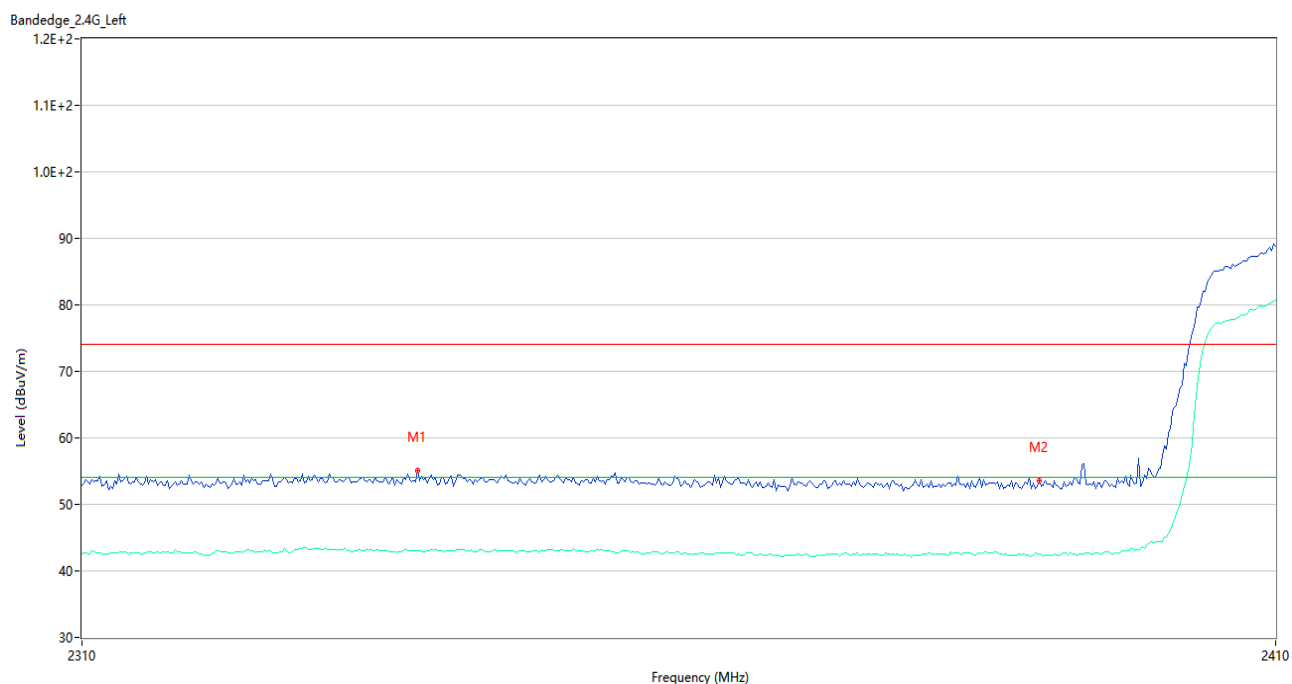
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2333.833	55.27	74.0	18.73	Peak	224.00	200	Vertical	Pass
1**	2333.833	42.97	54.0	11.03	AV	224.00	200	Vertical	Pass
2	2389.833	52.92	74.0	21.08	Peak	11.00	150	Vertical	Pass
2**	2389.833	42.06	54.0	11.94	AV	11.00	150	Vertical	Pass

802.11n20 HIGH CHANNEL



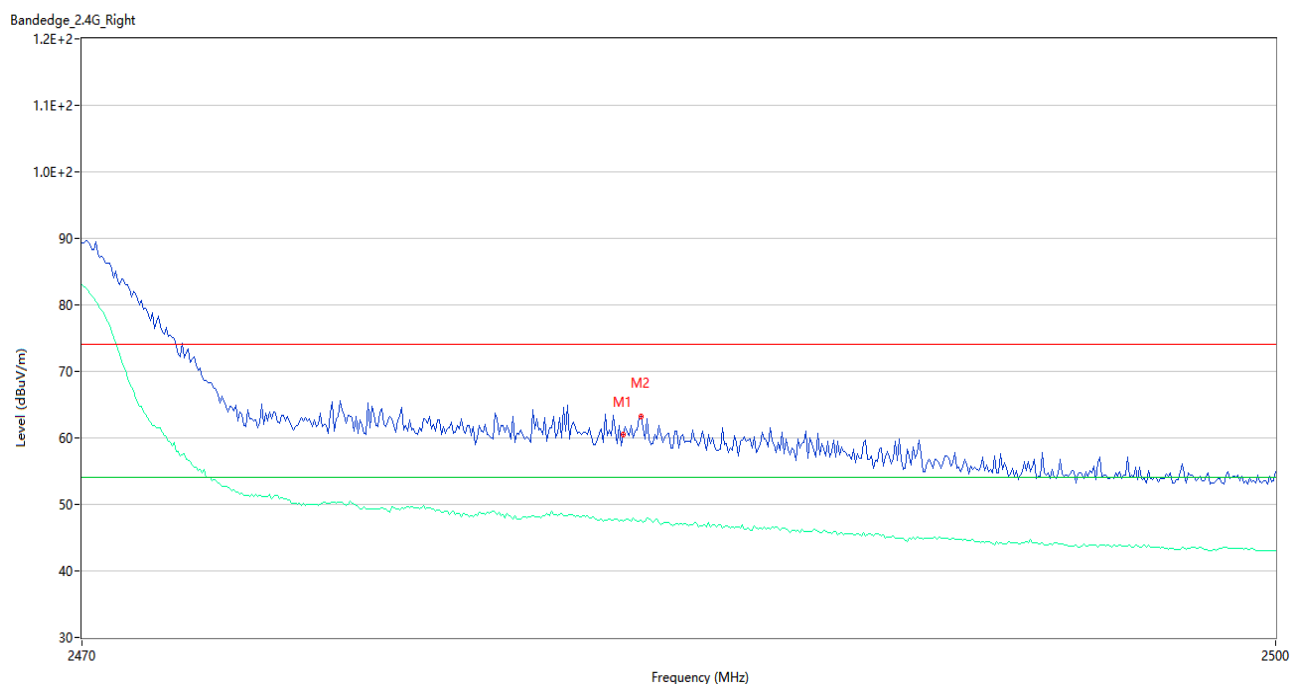
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	58.96	74.0	15.04	Peak	79.00	100	Vertical	Pass
1**	2483.500	45.70	54.0	8.30	AV	79.00	100	Vertical	Pass
2	2484.050	61.29	74.0	12.71	Peak	123.00	200	Vertical	Pass
2**	2484.050	45.26	54.0	8.74	AV	123.00	200	Vertical	Pass

802.11n40 LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2337.667	55.11	74.0	18.89	Peak	18.00	200	Vertical	Pass
1**	2337.667	43.08	54.0	10.92	AV	18.00	200	Vertical	Pass
2	2389.833	53.58	74.0	20.42	Peak	278.00	150	Vertical	Pass
2**	2389.833	42.60	54.0	11.40	AV	278.00	150	Vertical	Pass

802.11n40 HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	60.43	74.0	13.57	Peak	159.00	150	Vertical	Pass
1**	2483.550	47.49	54.0	6.51	AV	159.00	150	Vertical	Pass
2	2484.000	63.27	74.0	10.73	Peak	147.00	150	Vertical	Pass
2**	2484.000	47.57	54.0	6.43	AV	147.00	150	Vertical	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-7.13	8	Pass
Middle	-6.60	8	Pass
High	-7.66	8	Pass

802.11g Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-12.77	8	Pass
Middle	-10.90	8	Pass
High	-11.43	8	Pass

802.11n-20 MHz Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-12.14	8	Pass
Middle	-10.00	8	Pass
High	-11.55	8	Pass

802.11n-40 MHz Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-13.76	8	Pass
Middle	-13.13	8	Pass
High	-16.26	8	Pass

Test Plots

802.11b LOW CHANNEL



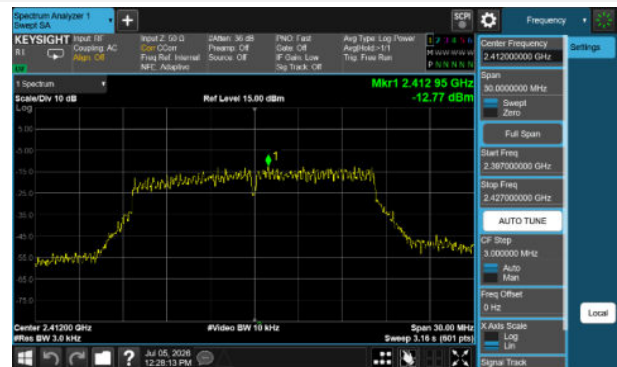
802.11b MIDDLE CHANNEL



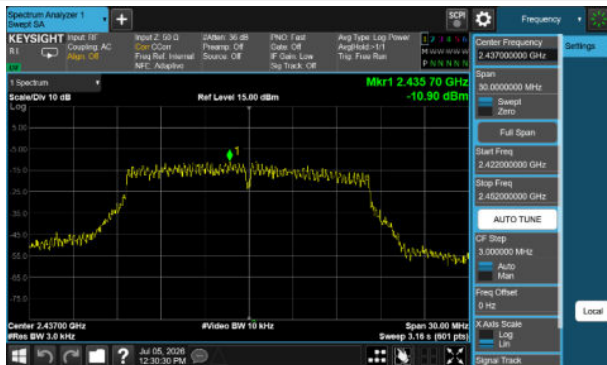
802.11b HIGH CHANNEL



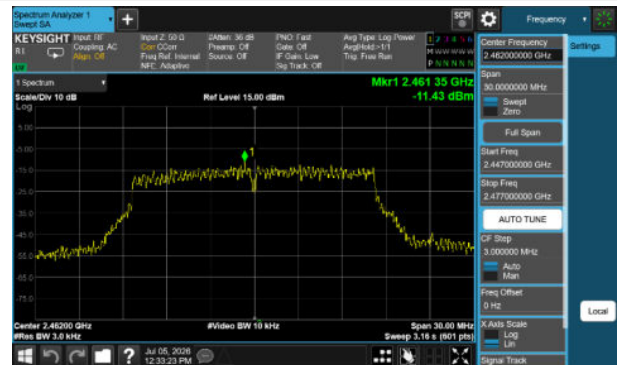
802.11g LOW CHANNEL



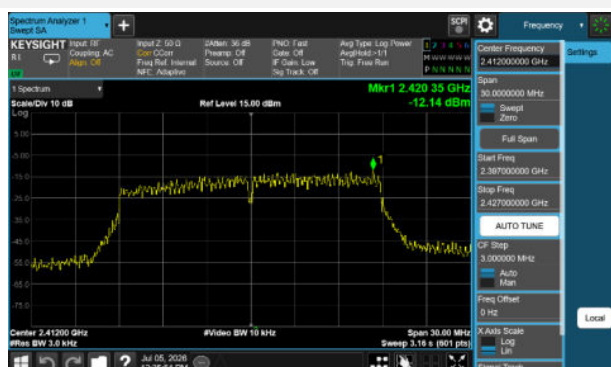
802.11g MIDDLE CHANNEL



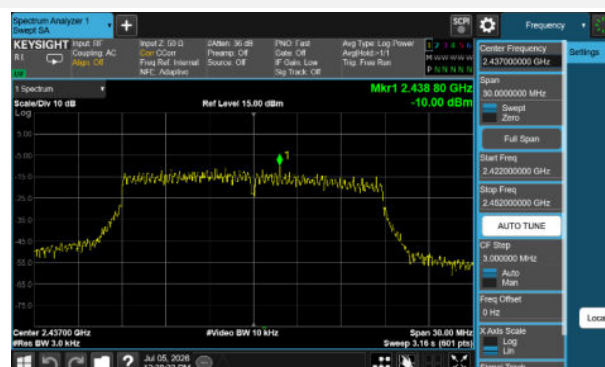
802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



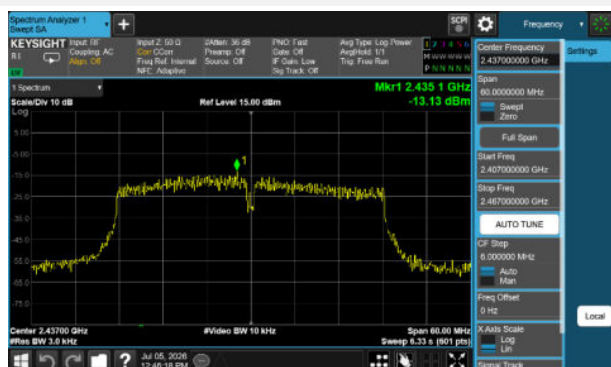
802.11n-20 MHz HIGH CHANNEL



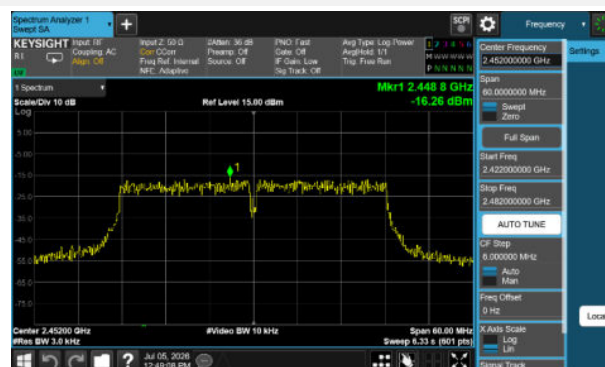
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-EE26060961-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-EE26060961-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-EE26060961-AI.PDF”.

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--END OF REPORT--