



Regulatory Test Report

Prepared for Harman International Industries, Inc.

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This report presents detailed information on

R1 INT NA 3B HW4

Prepared by

Aravind Buddana

Engineer II

Approved by

Jason Kanakry

General Manager

Issue date: 01/17/2025

Report No: J23133-R1 INT NA 3B HW4-TR1 v2

This test result relates only to the described test object.

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The test is traceable to national standard or related international standard

Contents

1. Test Request Information3

2. Test Laboratory Information4

3. Statement of Conformity5

4. Conducted Testing6

5. Radiated Testing37

1. Test Request Information

Test Request #:	7700206789
Test Requested By:	Pranav Patel Harman International Industries, Inc. 30001 Cabot Drive, Novi, MI 48377
Test item Description:	R1 INT NA 3B HW4
Part Number:	P68581660ZZ
DUT Sample Number:	J23133#2 NA 3B
FVIN :	FCA-MY24.MNL-OD.3426
Hardware Version of DUT:	N/A
Software Version of DUT:	N/A
Component Category of DUT:	N/A
FCC ID:	2AHPN-BE2878
ISED ID:	6434C-BE2878
Type of Test:	FCC/ISED Certification
Test Method:	CFR Title 47 FCC Part 15.247, ISED Canada RSS-247 Issue 3, ISED Canada RSS-GEN Issue 5, FCC KDB 558074 D01 15.247 Measurement Guidance v05r02 and ANSI C63.10-2013
Deviations from standard:	None
Approved Test Plan Number:	N/A
Test Plan Revision:	N/A
Date Test Sample Received:	06-26-2024
Date Test Started:	07-26-2024
Date Test Finished:	10-10-2024

2. Test Laboratory Information

Location of Test Lab:	The radiated and conducted emissions test sites are located at Bureau Veritas 815 N. Opdyke Rd #100, Auburn Hills, MI 48326, Phone: +1-248-836-4700
Key Contact:	Jason Kanakry (General Manager) Jason.Kanakry@BureauVeritas.com Phone: +1-248-836-4747
Laboratory Accreditations:	BUREAU VERITAS CONSUMER PRODUCTS SERVICES, INC is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.
ISO/IEC 17025:2017:	5678.01
FCC Test Site Number:	US1278 (242530)
IC Test Site Number:	US0229 (26240)

3. Statement of Conformity

RSS-GEN	RSS 247	Part 15	Comments
6.4		15.15(b)	There are no controls accessible to the user that varies the output power to operate in violation of the regulatory requirements.
		15.19	The label shown in the label exhibit.
		15.21	Information to the user shown in the instruction manual exhibit.
		15.27	No special accessories are required for compliance.
3.2		15.31	The EUT tested in accordance with the measurement standards in this section.
6.13.2		15.33	Frequency range investigated according to this section, unless noted in specific rule section under which the equipment operates.
6.13.1		15.35	The EUT emissions are measured using the measurement detector and bandwidth specified in this section, unless noted in specific rule section under which the equipment operates.
6.8		15.203	EUT employs integrated PCB antenna with -0.12dBi gain.
8.10		15.205 15.209	The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209 or RSS-GEN as applicable
8.8		15.207	N/A. EUT is vehicle battery powered only.

4. Conducted Testing

4.1 Test Summary

This test report supports an application for certification of a transmitter operating pursuant to: **CFR Title 47 FCC Part 15.247, ISSED Canada RSS-247 Issue 3**. The product is **R1 INT NA 3B HW4** a direct sequence spread spectrum transmitter that operates in the 2412-2462MHz frequency range.

Details	Description
Frequency Range (MHz)	2412 – 2462
Tested Modes	802.11b, 802.11g, 802.11n (HT20).
Number of Channels	11
Tested Channels	1, 6 ,11
DUT Antenna Type	Integrated PCB antenna
Number of transmit Chains	1
Equipment Type	Equipment with wideband modulation other than frequency hopping
DUT Antenna Gain	-0.12dBi ☒ Provided by Customer with Gain Report ☐ Not Provided by Customer
DUT/EUT Operation	EUT is configured/programmed by an External Test Laptop with USB and Ethernet interfaces to set WLAN Test Mode, data rates, channels, bandwidth, band configurations etc., using labtool (MFGBridge_Tool).

Channels and Frequency

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

Notes:

- Channels marked bold were tested.
- Output power measurements performed at the lowest and highest data rate of each supported 802.11 mode.

Power Settings

802.11b		802.11g	
Channel	Power Setting	Channel	Power Setting
1	8	1	8
6	8	6	8
11	8	11	8
802.11n (HT20)			
Channel	Power Setting		
1	7		
6	7		
11	7		

Test Results

Test	Frequency (MHz)	802.11b	802.11g	802.11n (HT20)
RF Output Power	2412/2437/2462	PASS	PASS	PASS
Power Spectral Density	2412/2437/2462	PASS	PASS	PASS
DTS Bandwidth (6dB)	2412/2437/2462	PASS	PASS	PASS
Occupied Channel Bandwidth 99%	2412/2437/2462	PASS	PASS	PASS
Band Edges Low	2412	PASS	PASS	PASS
Band Edges High	2462	PASS	PASS	PASS
Conducted Spurious Emissions	2412/2437/2462	PASS	PASS	PASS

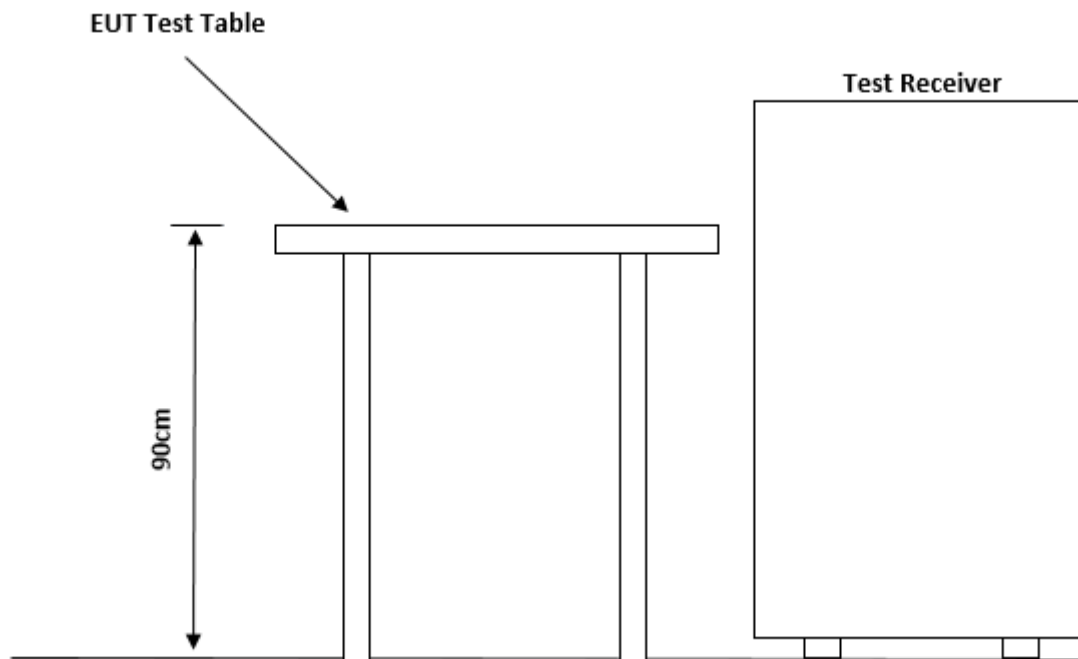
We found that the product met the requirements. Test samples received in good condition and remains good and functional post testing.

Test Item	Sample #	Result
FCC 15.247 2.4G WLAN	J23133#2 NA 3B	Meets Requirements

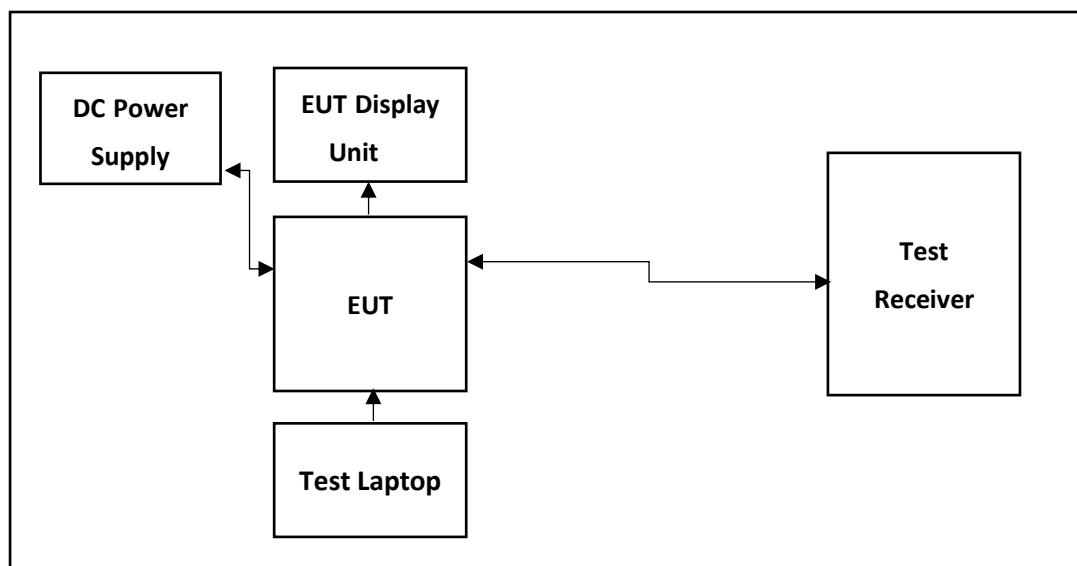
4.2 Test Setup

Conducted Test Site Description

The site is accommodated to test tabletop and floor standing test equipment.



TEST SETUP DIAGRAM



4.3 Test Equipment Used

ID #	Equipment	Manufacturer	Model #	Serial #	Cal Due
BVD0226	Spectrum Analyzer 10Hz-44GHz	Rohde & Schwarz	FSV3044	101018	4/20/2025
BVD0227	8 port switch unit for Wireless Test system	Rohde & Schwarz	OSP150	101100	11/24/2025
BVD0228	8 port switch unit for Wireless Test system	Rohde & Schwarz	OSP220	101632	11/14/2025
BVD0224	Signal Generator 100kHz-40GHz	Rohde & Schwarz	SMB100A	181741	4/20/2025
BVD0225	Signal Generator 100k-6GHz with GPS simulator	Rohde & Schwarz	SMW200A	107664	4/20/2025
BVD0250	Wireless Connectivity Tester 70M-6GHz	Rohde & Schwarz	CMW270	102113	4/20/2025
BVD0302	DC power supply 1-15VDC 60A 110/220 11.5A max input	BK Precision	1693	257F17180	N/A
BVD0321	Fixed Attenuator 2W 20dB -40GHz	Mini-Circuits	BW-K20-2W44+	2103	12/11/2024
BVD0430	Multimeter	Fluke	117	49710262SV	11/17/2024
BVD0229	Temp and Humidity Meter	Fluke	971	12001009	5/23/2025
N/A	Test-PC	Lenovo ThinkPad	E480	SL10Q37355	N/A

Notes:- DC power supply verified before use with calibrated Multimeter.

Customer Supplied Equipment

ID #	Equipment	Manufacturer	Model	Serial #	Version No.
N/A	Harness	Harman	N/A	N/A	N/A
N/A	Display Unit	MOBIS	BMM6100000	231107 01	N/A
N/A	Shark Fin Antenna	Alfa Romeo	B901	719147	N/A
N/A	Antenna	Aptiv	APN35409682	N/A	N/A
N/A	Camera	N/A	23295906C	N/A	N/A
N/A	MFGBridge_Tool/ Dut labtool	N/A	N/A	N/A	2.0.0.89

Equipment List (Software)

ID #	Equipment	Manufacturer	Model	Version No	
N/A	EMC Test Software	Rodhe & Schwarz	EMC32	11.20.00	N/A

4.4 Test Data

4.4.1 RF Output Power

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.9.2.3.2, RSS-247 5.4 (d)

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

802.11b

Data Rate	Gated RMS (dBm) 2412 MHz	Gated RMS (dBm) 2437 MHz	Gated RMS (dBm) 2462 MHz	Limit (dBm)	Duty Cycle (%)	Power Setting
1 Mbps	6.499	6.704	4.982	30	99.886	8

802.11g

Data Rate	Gated RMS (dBm) 2412 MHz	Gated RMS (dBm) 2437 MHz	Gated RMS (dBm) 2462 MHz	Limit (dBm)	Duty Cycle (%)	Power Setting
6 Mbps	6.198	6.474	5.384	30	98.853	8

802.11n (HT20)

Data Rate	Gated RMS (dBm) 2412 MHz	Gated RMS (dBm) 2437 MHz	Gated RMS (dBm) 2462 MHz	Limit (dBm)	Duty Cycle (%)	Power Setting
MCS0	5.959	6.205	5.010	30	98.796	7

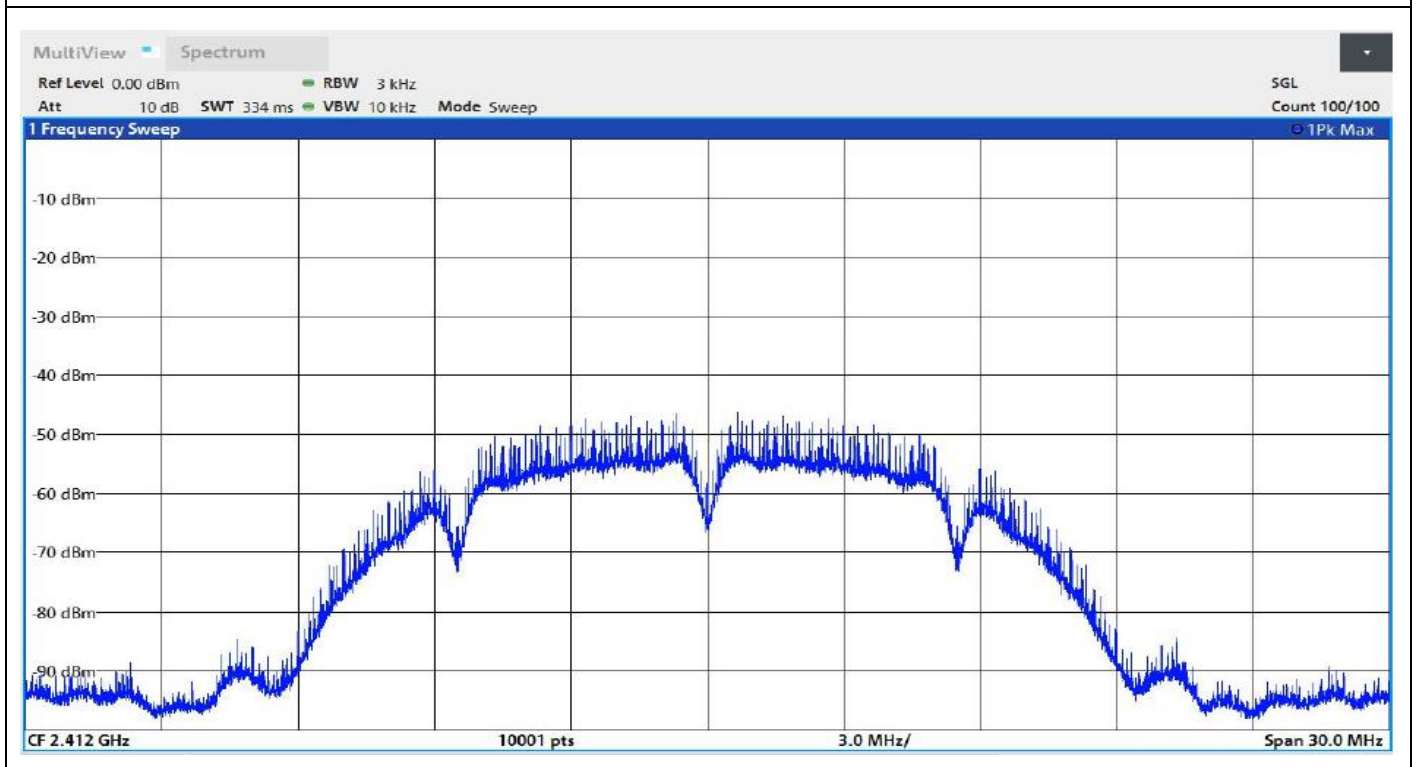
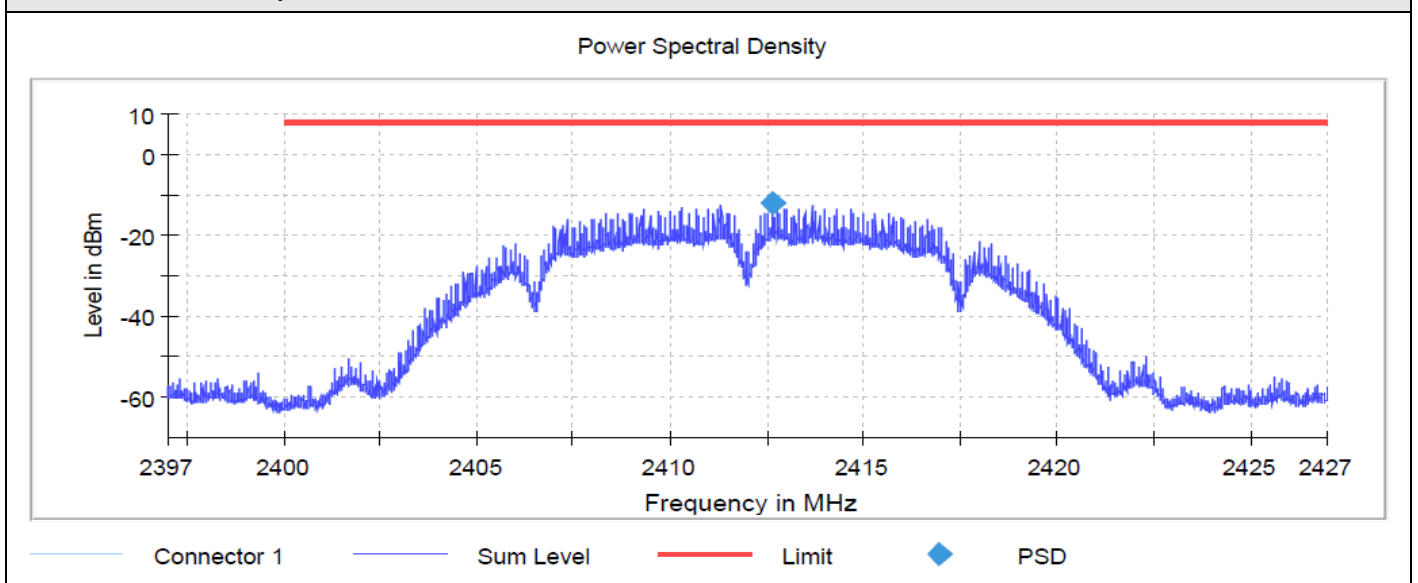
4.4.2 Power Spectral Density

Test according to FCC title 47 part 15 §15.247(e), KDB 558074 D01 DTS Meas Guidance v05r02 F and ANSI C63.10-2013 Section 11.10.2, RSS-247 5.2 (b)

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1.3 dB

Mode	Data Rate	PSD (dBm) 2412 MHz	PSD (dBm) 2437 MHz	PSD (dBm) 2462 MHz	Limit (dBm)
802.11b	1 Mbps	-12.172	-11.924	-13.683	8.0

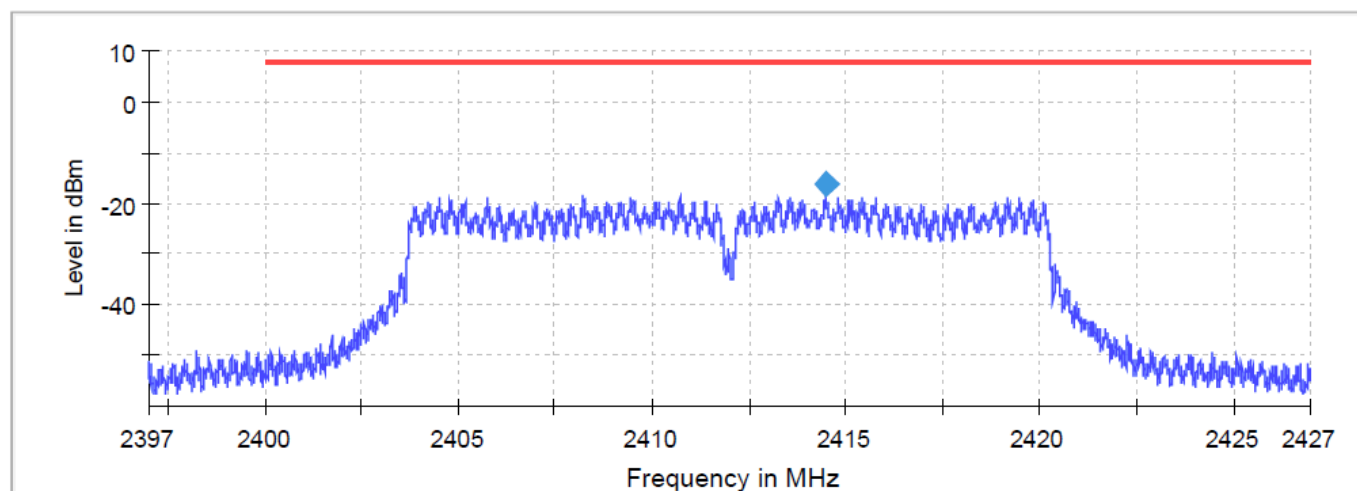
802.11b 2412MHz 1Mbps



Mode	Data Rate	PSD (dBm) 2412 MHz	PSD (dBm) 2437 MHz	PSD (dBm) 2462 MHz	Limit (dBm)
802.11g	6 Mbps	-16.468	-17.228	-18.048	8.0

802.11g 2412MHz 6Mbps

Power Spectral Density

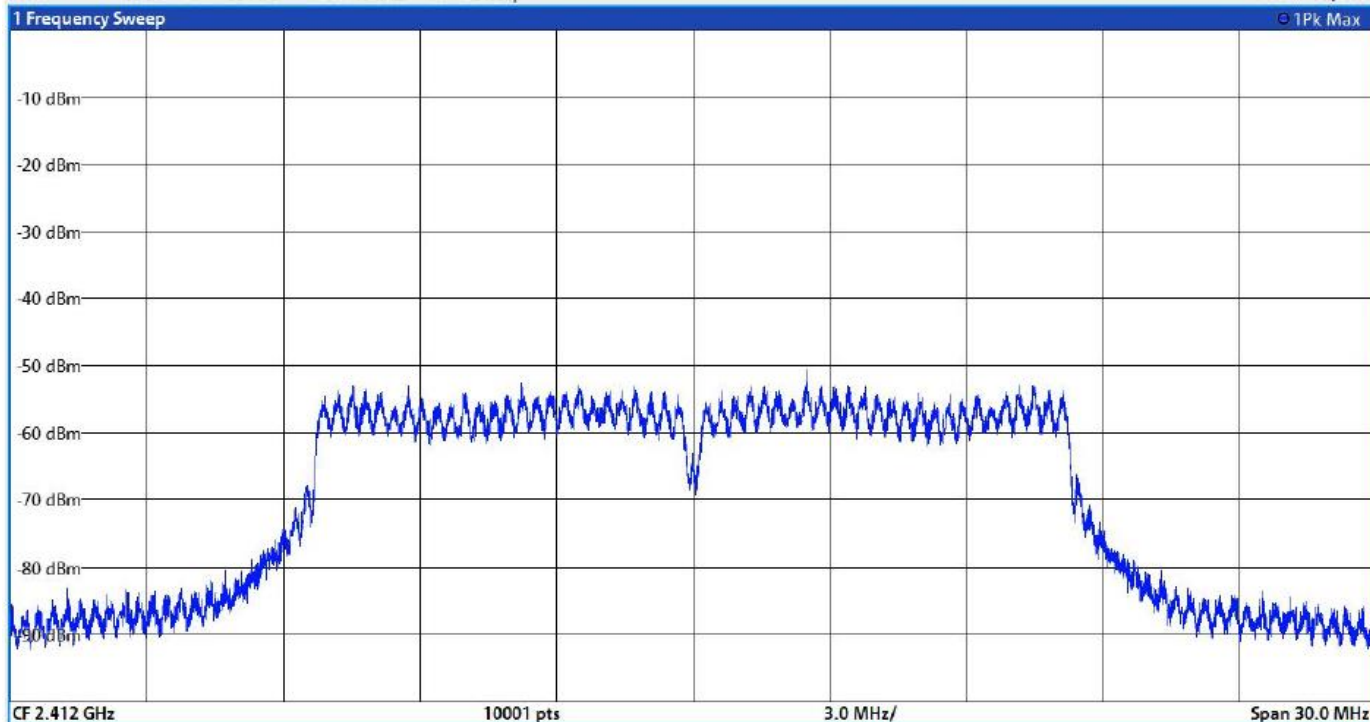


Connector 1 Sum Level Limit PSD

MultiView Spectrum

Ref Level 0.00 dBm RBW 3 kHz
Att 10 dB SWT 334 ms VBW 10 kHz Mode Sweep

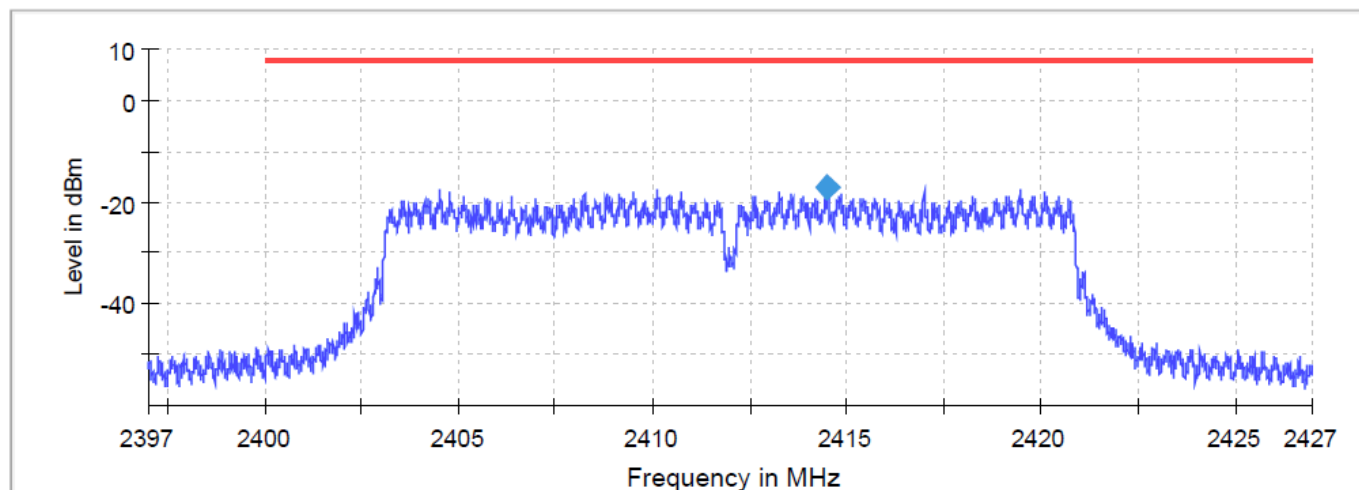
SGL
Count 100/100



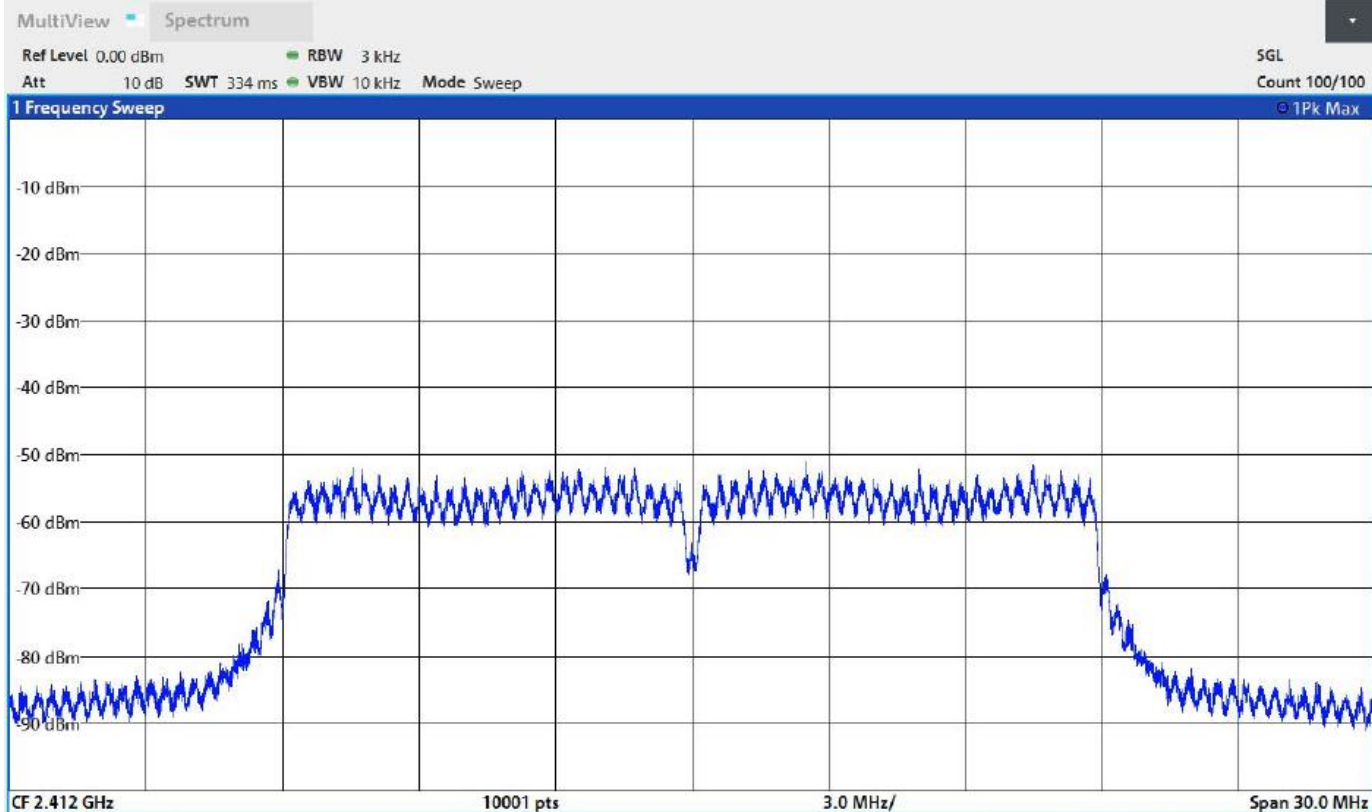
Mode	Data Rate	PSD (dBm) 2412 MHz	PSD (dBm) 2437 MHz	PSD (dBm) 2462 MHz	Limit (dBm)
802.11n	MCS0	-16.959	-16.957	-18.157	8.0

802.11n (HT20) 2412MHz MCS0

Power Spectral Density



Connector 1 Sum Level Limit PSD



4.4.3 Occupied Channel Bandwidth

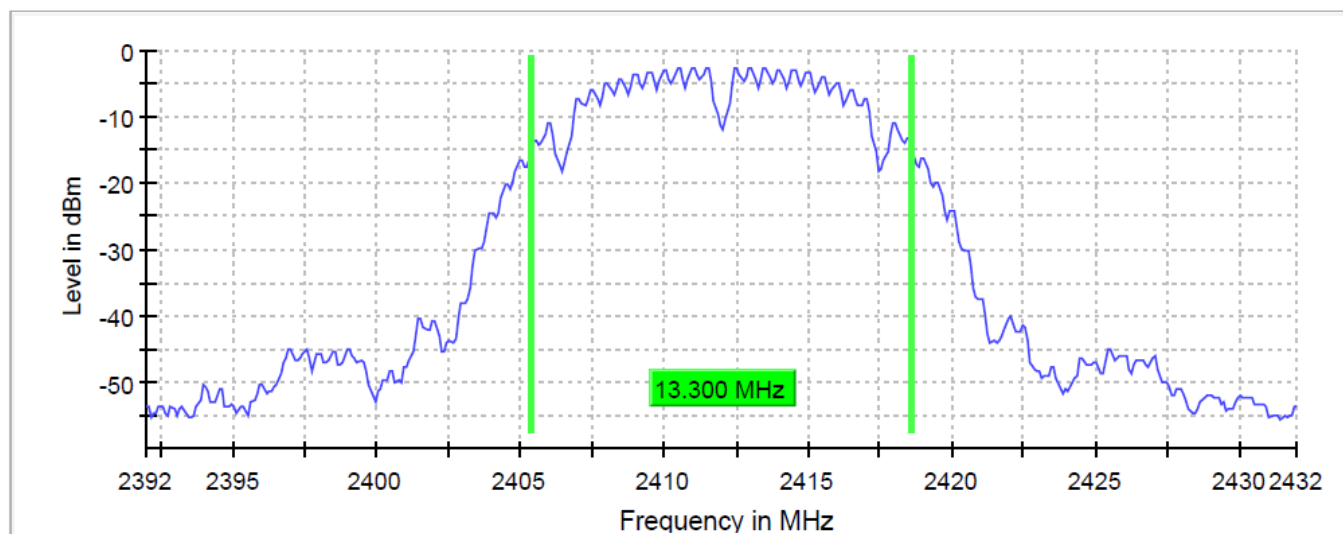
Test according to RSS-GEN Section 6.7, KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 Section 6.9.3

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

Data Rate	DUT Frequency (MHz)	Bandwidth (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
802.11b 1Mbps	2412.000000	13.300000	2405.350000	2418.650000
802.11g 6Mbps	2412.000000	16.700000	2403.650000	2420.350000
802.11n (HT20) MCS0	2412.000000	17.700000	2403.150000	2420.850000
802.11b 1Mbps	2437.000000	13.300000	2430.350000	2443.650000
802.11g 6Mbps	2437.000000	16.700000	2428.650000	2445.350000
802.11n (HT20) MCS0	2437.000000	17.700000	2428.150000	2445.850000
802.11b 1Mbps	2462.000000	13.300000	2455.350000	2468.650000
802.11g 6Mbps	2462.000000	16.700000	2453.650000	2470.350000
802.11n (HT20) MCS0	2462.000000	17.700000	2453.150000	2470.850000

802.11b 1Mbps 2412MHz

99 % Bandwidth



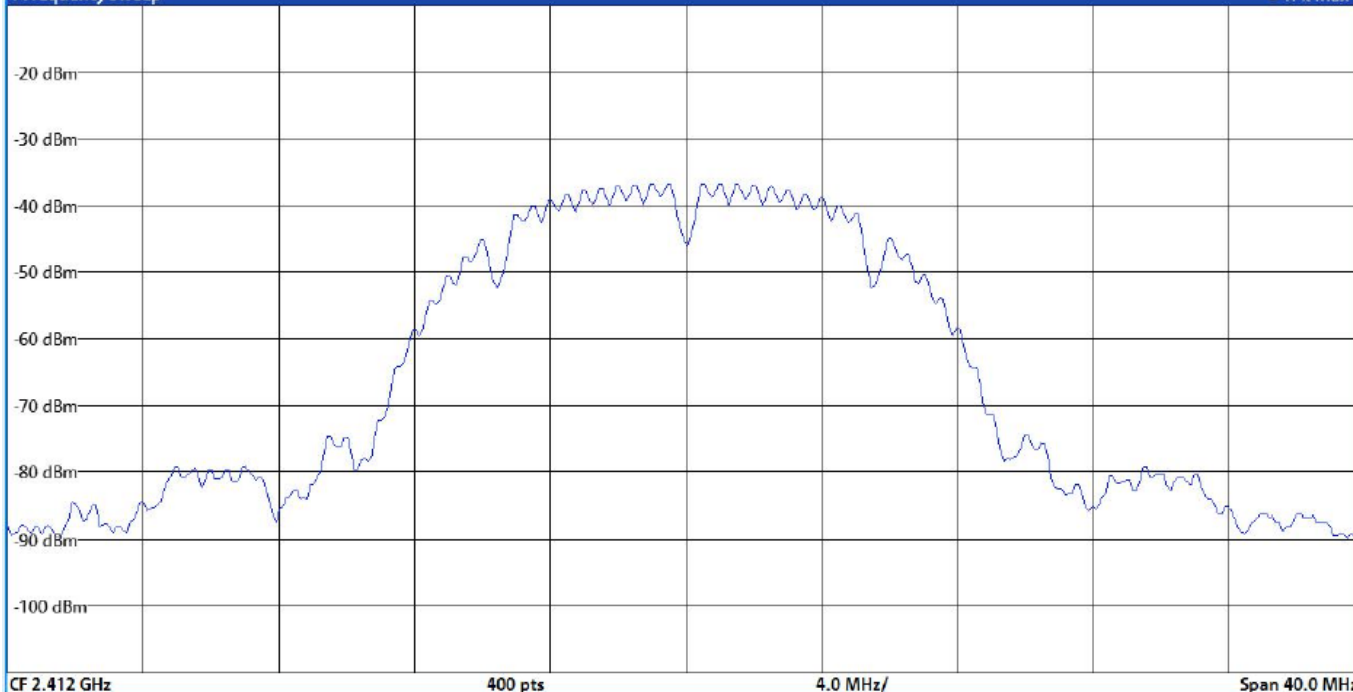
MultiView Spectrum

Ref Level -10.00 dBm
Att 0 dB SWT 1 ms RBW 200 kHz VBW 1 MHz Mode Sweep

SGL
Count 100/100

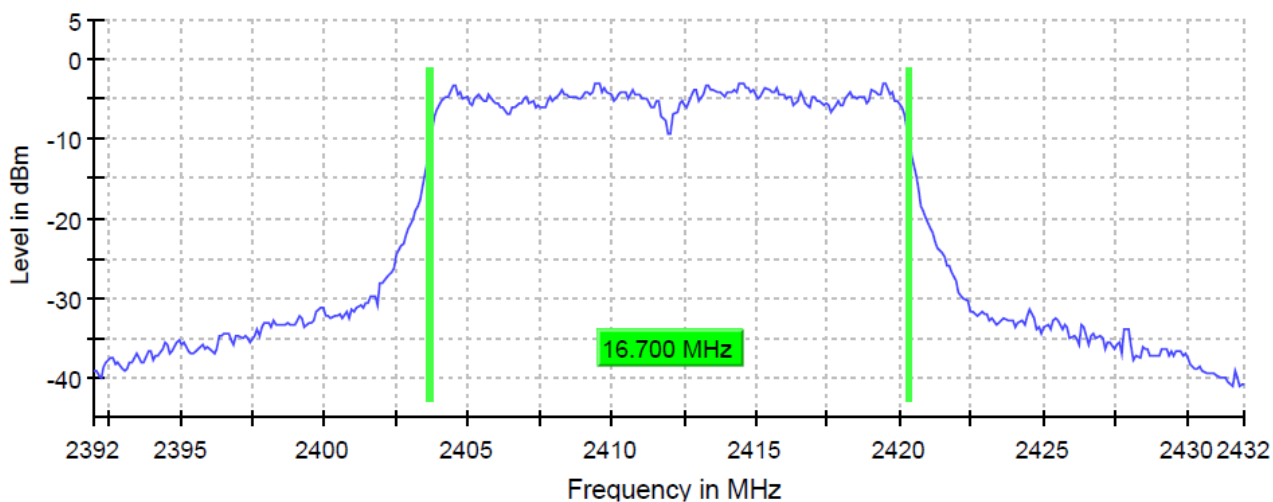
1 Frequency Sweep

1Pk Max



802.11g 6Mbps 2412MHz

99 % Bandwidth



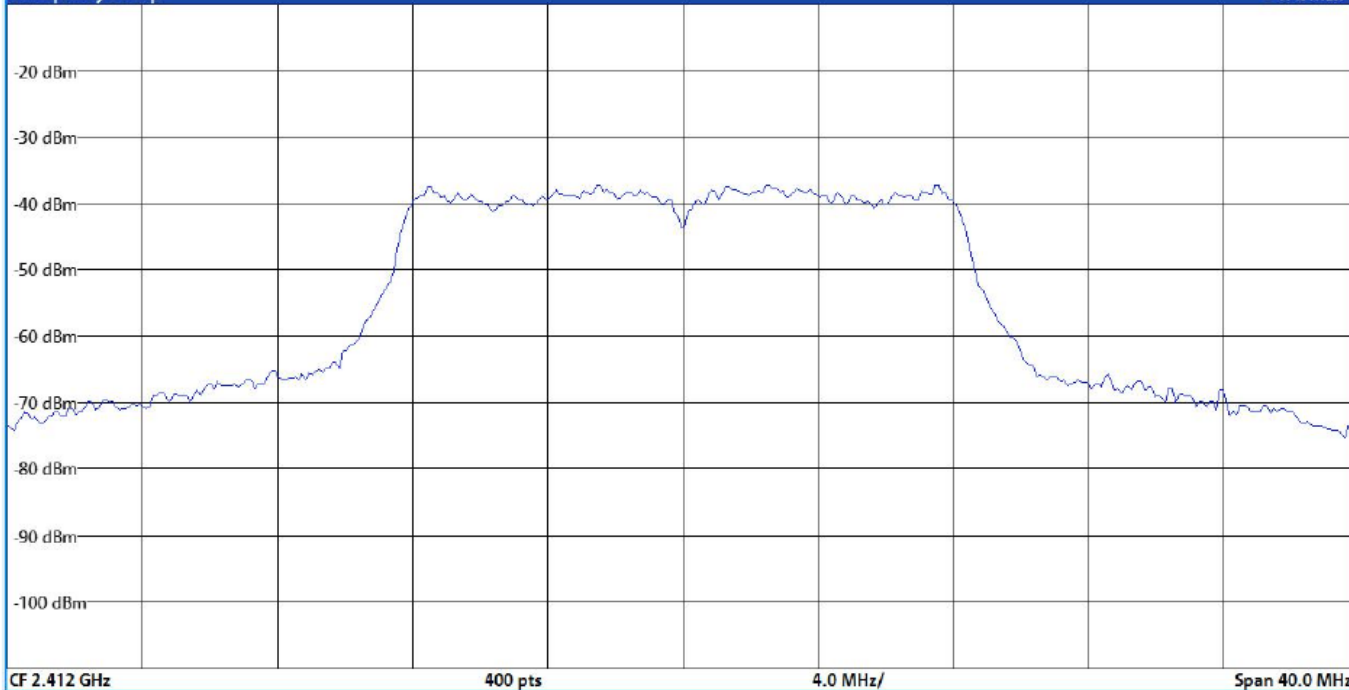
MultiView Spectrum

Ref Level -10.00 dBm
Att 0 dB SWT 1 ms RBW 200 kHz VBW 1 MHz Mode Sweep

SGL
Count 100/100

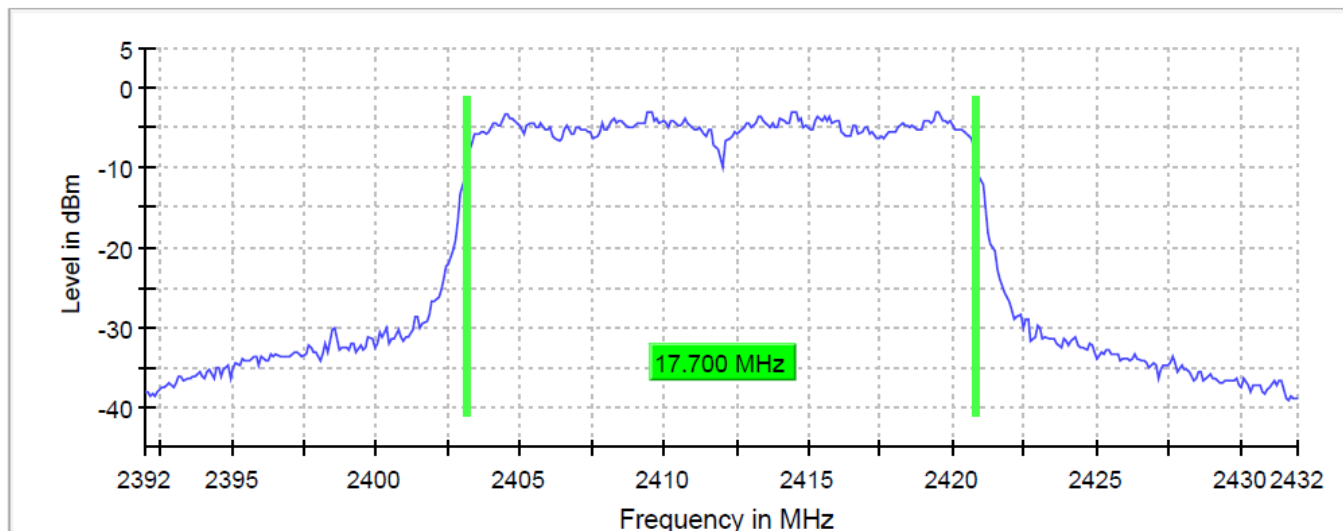
1 Frequency Sweep

1Pk Max



802.11n MCS0 2412MHz

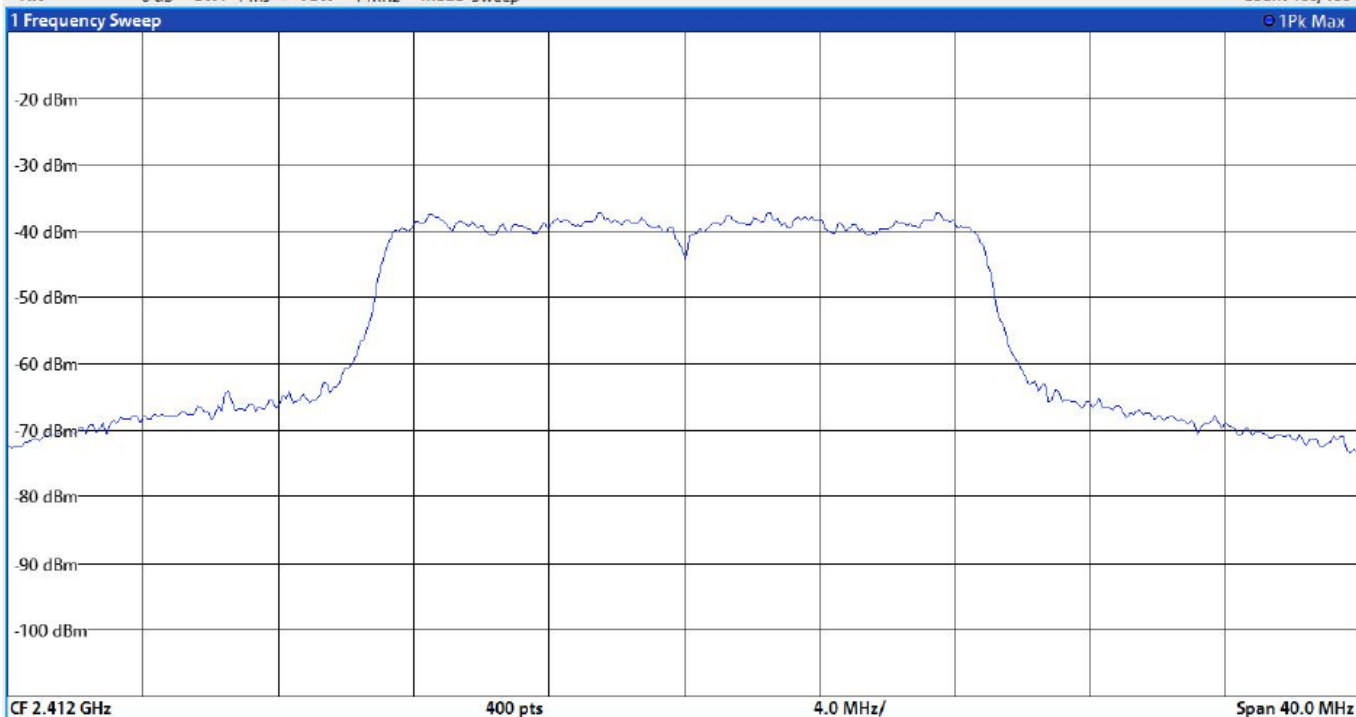
99 % Bandwidth



MultiView Spectrum

Ref Level -10.00 dBm
Att 0 dB
SWT 1 ms
RBW 200 kHz
VBW 1 MHz
Mode Sweep

SGL
Count 100/100



4.4.4 DTS Bandwidth (6dB)

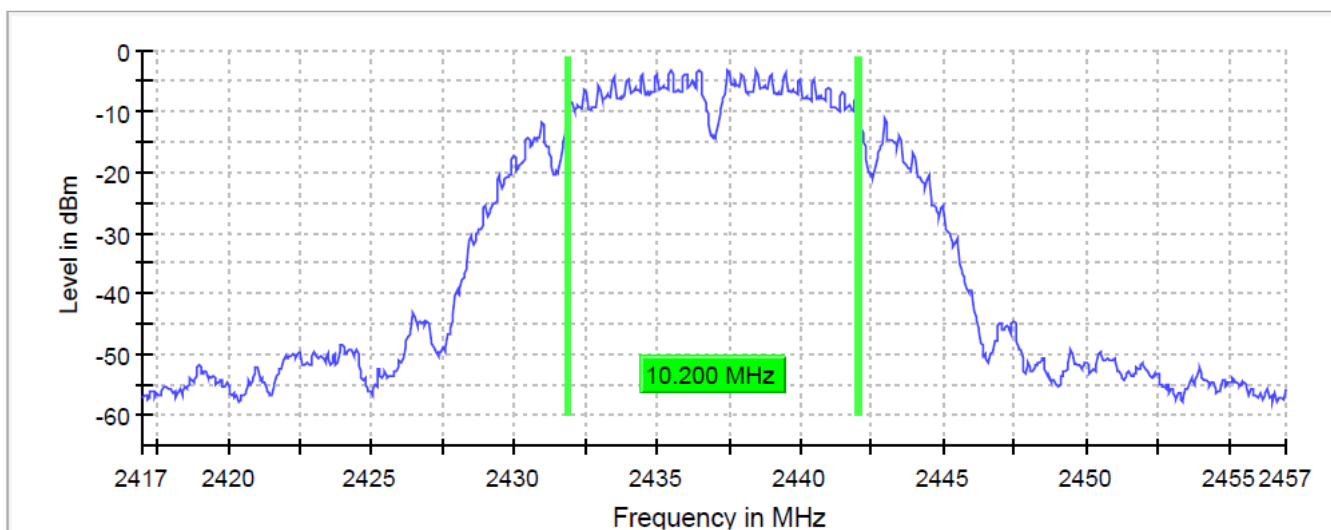
Definition: Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1, RSS-247 5.2(a)

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

Data Rate	DUT Frequency (MHz)	Bandwidth (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Minimum Limit (MHz)
802.11b 1Mbps	2412.000000	10.200000	2406.875000	2417.075000	0.500000
802.11g 6Mbps	2412.000000	16.450000	2403.775000	2420.225000	0.500000
802.11n (HT20) MCS0	2412.000000	17.450000	2403.375000	2420.825000	0.500000
802.11b 1Mbps	2437.000000	10.200000	2431.875000	2442.075000	0.500000
802.11g 6Mbps	2437.000000	16.400000	2428.775000	2445.175000	0.500000
802.11n (HT20) MCS0	2437.000000	17.650000	2428.125000	2445.775000	0.500000
802.11b 1Mbps	2462.000000	10.200000	2456.875000	2467.075000	0.500000
802.11g 6Mbps	2462.000000	16.450000	2453.775000	2470.225000	0.500000
802.11n (HT20) MCS0	2462.000000	17.600000	2453.175000	2470.775000	0.500000

802.11b 2437MHz 1Mbps

6 dB Bandwidth



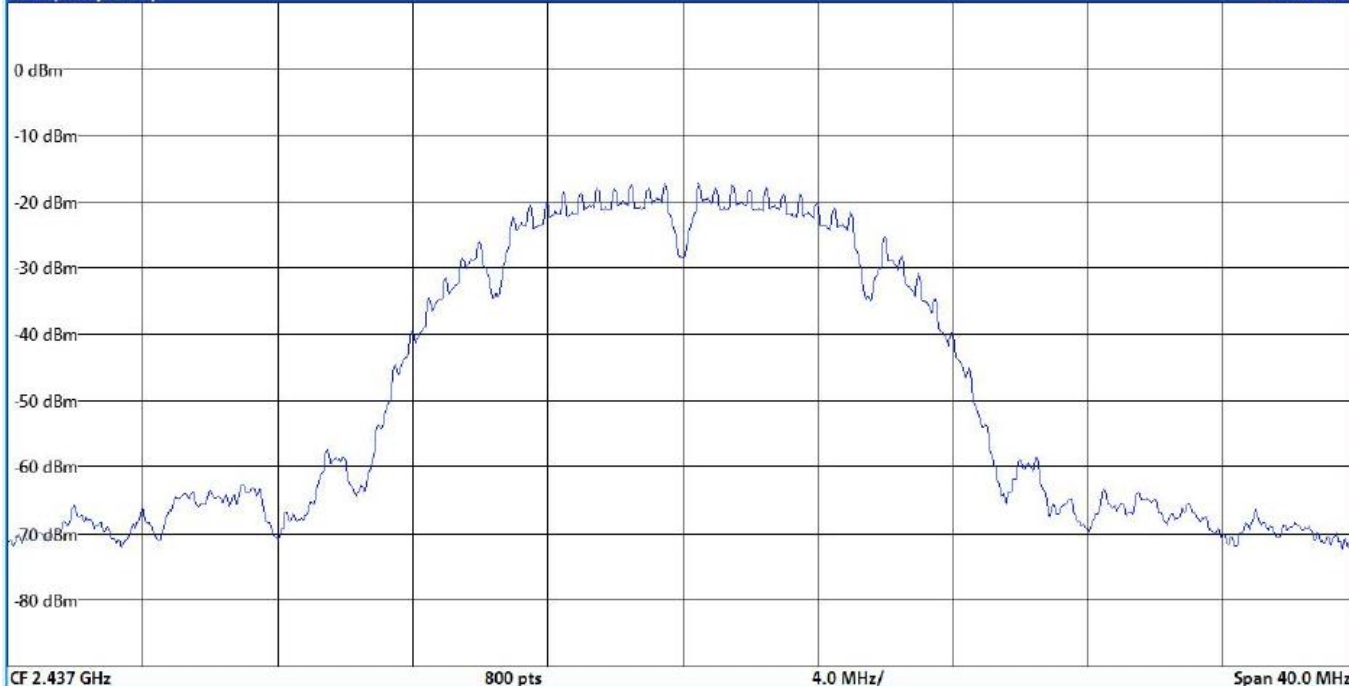
MultiView Spectrum

Ref Level 10.00 dBm RBW 100 kHz
Att 20 dB SWT 1 ms VBW 300 kHz Mode Sweep

SGL
Count 100/100

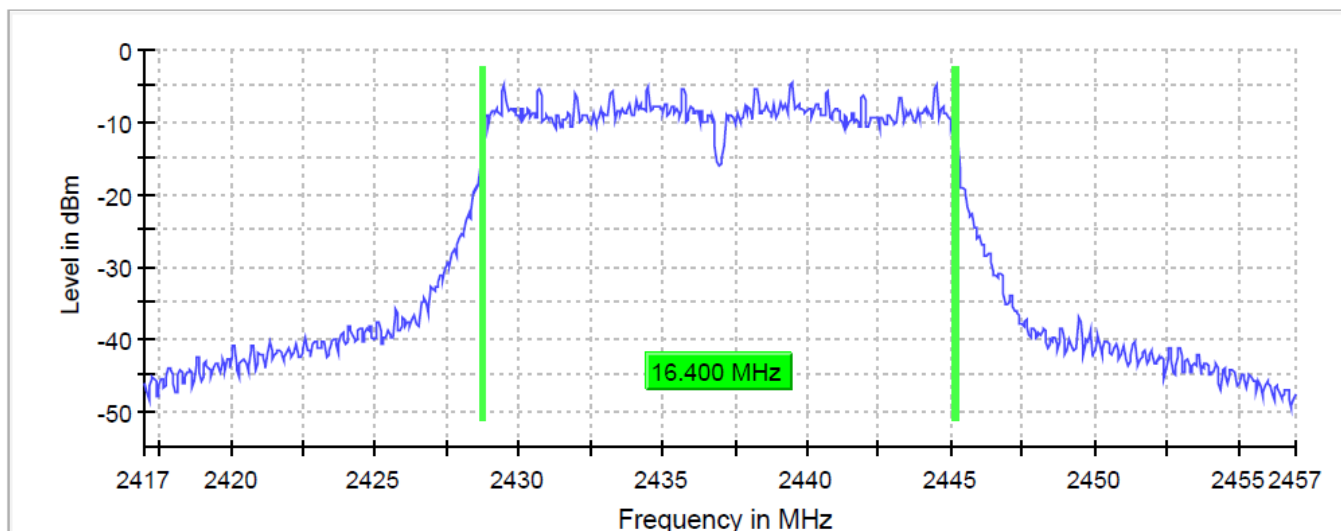
1 Frequency Sweep

1Pk Max



802.11g 2437MHz 6Mbps

6 dB Bandwidth



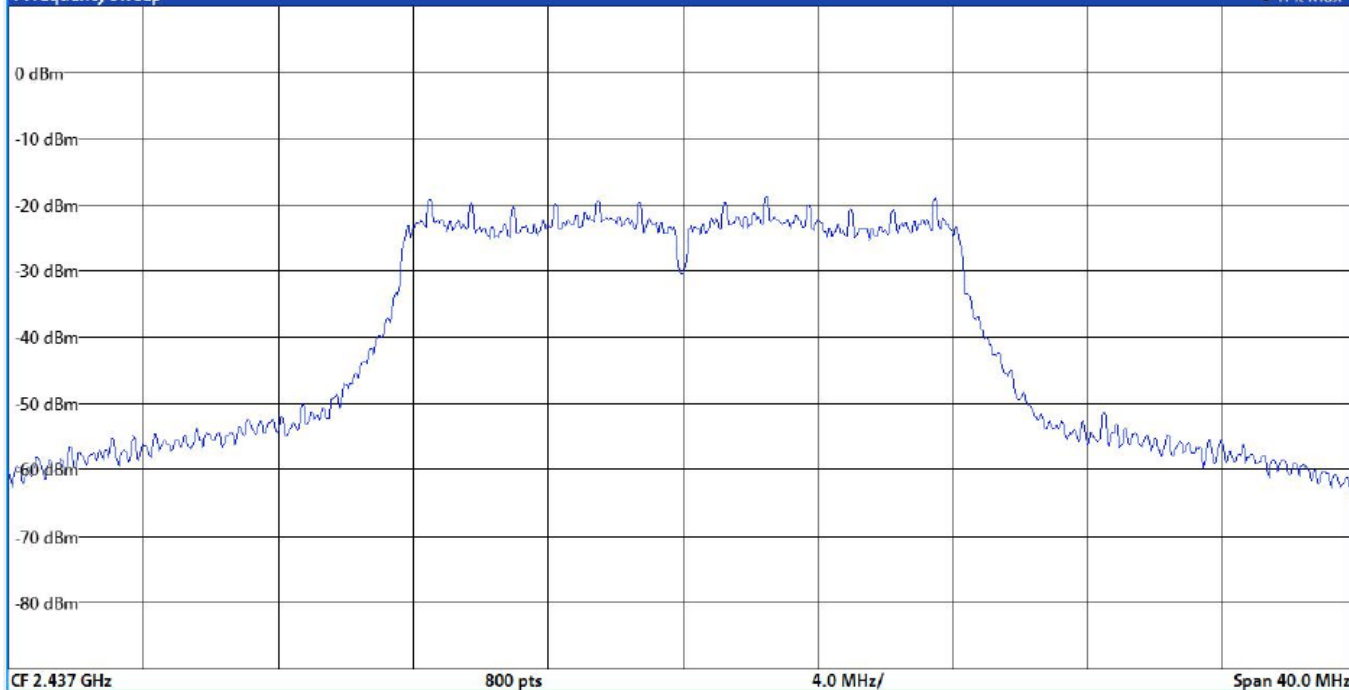
MultiView Spectrum

Ref Level 10.00 dBm
Att 20 dB
RBW 100 kHz
VBW 300 kHz
Mode Sweep

SGL
Count 100/100

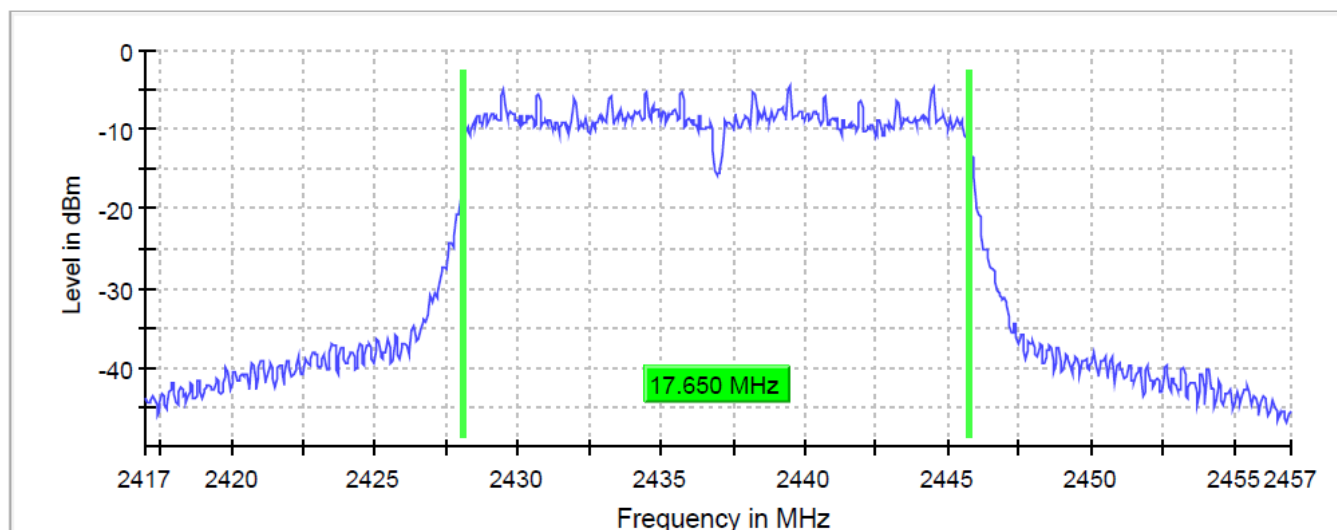
1 Frequency Sweep

1Pk Max



802.11n 2437MHz MCS0

6 dB Bandwidth



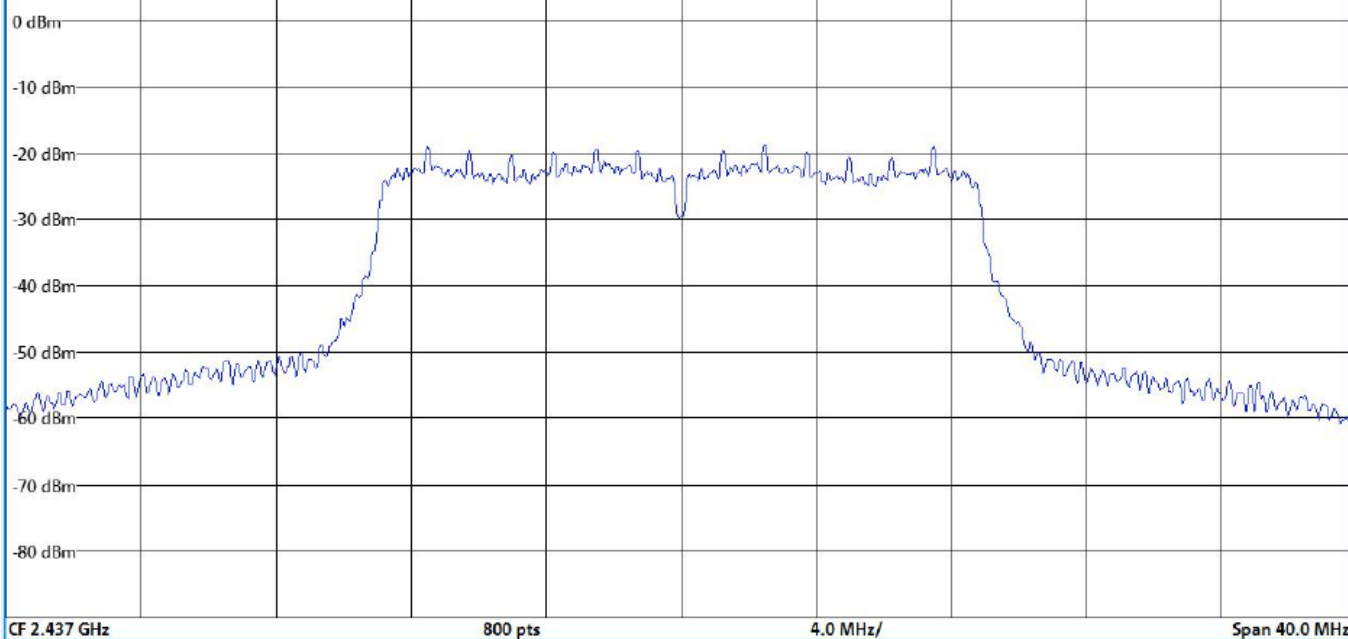
MultiView Spectrum

Ref Level 10.00 dBm Att 20 dB SWT 1 ms RBW 100 kHz VBW 300 kHz Mode Sweep

SGL Count 100/100

1 Frequency Sweep

1Pk Max



4.4.5 Conducted Band Edge

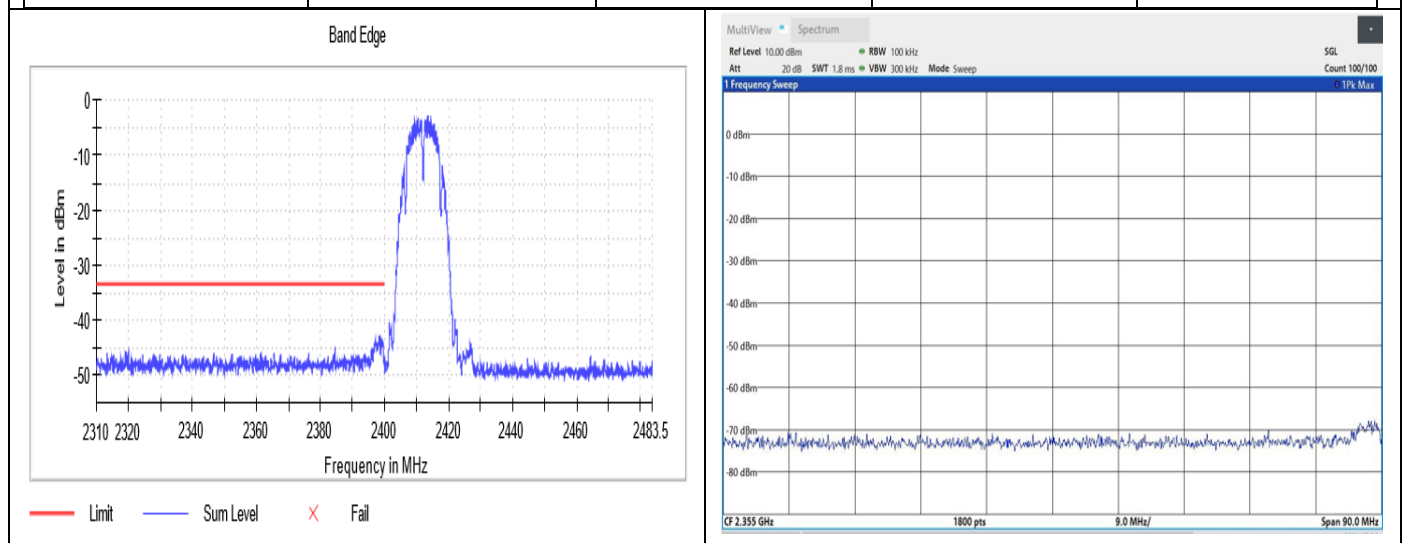
Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05r02 Section 8.7 and ANSI C63.10-2013 Section 11.11.3, RSS-247 5.5

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 0.8 dB

Band Edge Low (802.11b 1Mbps 2412MHz)

Frequency (MHz)	Level (dBm)
2413.525000	-3.2

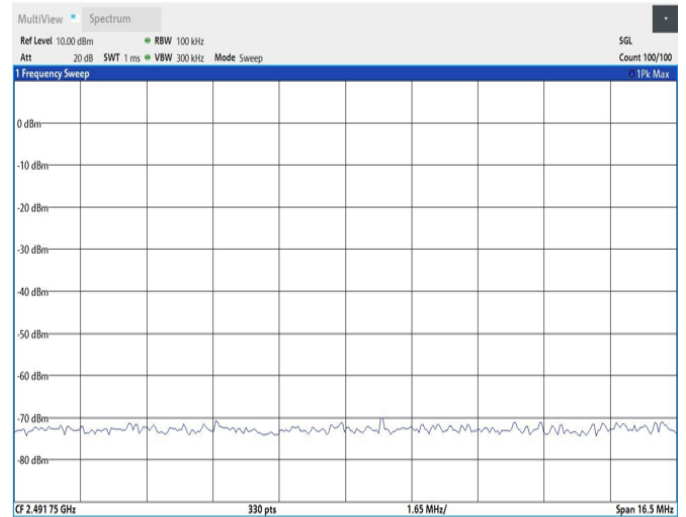
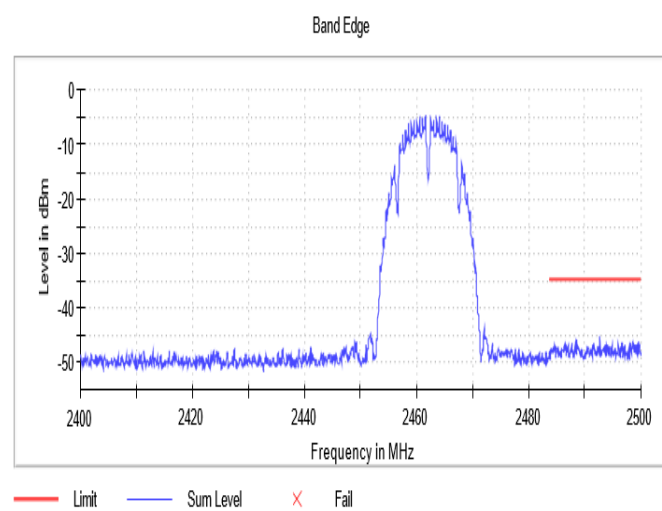
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2398.525000	-43.0	9.8	-33.2	PASS
2398.175000	-43.1	10.0	-33.2	PASS
2398.225000	-43.1	10.0	-33.2	PASS
2399.025000	-43.2	10.0	-33.2	PASS
2398.475000	-43.2	10.1	-33.2	PASS
2397.025000	-43.5	10.4	-33.2	PASS
2399.275000	-43.6	10.4	-33.2	PASS
2398.975000	-43.6	10.4	-33.2	PASS
2397.075000	-43.7	10.5	-33.2	PASS
2396.975000	-43.7	10.5	-33.2	PASS
2399.325000	-43.7	10.5	-33.2	PASS
2399.075000	-43.7	10.6	-33.2	PASS
2398.725000	-44.0	10.8	-33.2	PASS
2398.675000	-44.0	10.8	-33.2	PASS
2398.575000	-44.0	10.8	-33.2	PASS



Band Edge High (802.11b 1Mbps 2462MHz)

Frequency (MHz)	Level (dBm)
2464.025000	-4.7

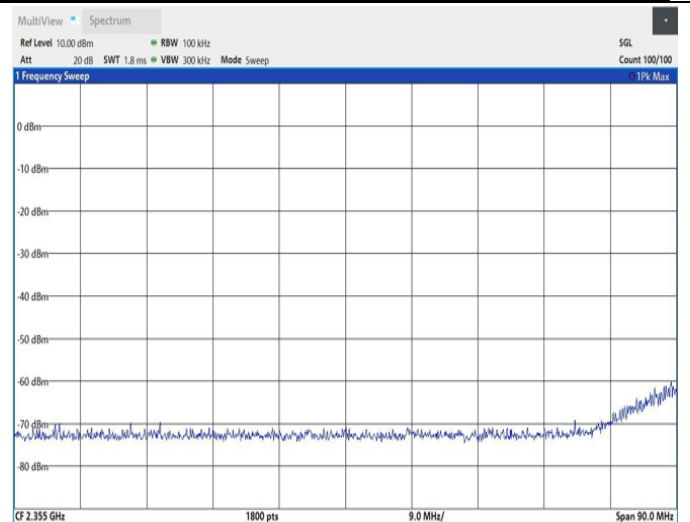
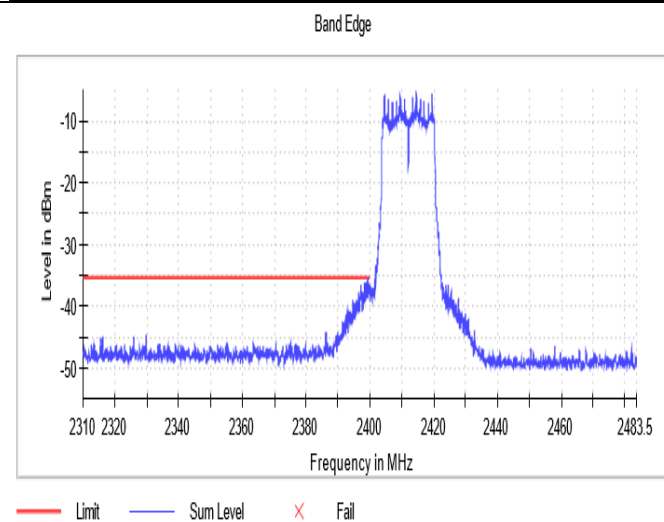
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2492.675000	-45.1	10.4	-34.7	PASS
2492.625000	-45.1	10.4	-34.7	PASS
2488.525000	-45.8	11.1	-34.7	PASS
2499.625000	-46.0	11.3	-34.7	PASS
2488.575000	-46.1	11.4	-34.7	PASS
2495.925000	-46.2	11.5	-34.7	PASS
2499.425000	-46.2	11.5	-34.7	PASS
2491.675000	-46.3	11.5	-34.7	PASS
2498.475000	-46.3	11.6	-34.7	PASS
2486.375000	-46.3	11.6	-34.7	PASS
2496.625000	-46.3	11.6	-34.7	PASS
2496.575000	-46.3	11.6	-34.7	PASS
2495.975000	-46.3	11.6	-34.7	PASS
2499.575000	-46.3	11.6	-34.7	PASS
2491.625000	-46.3	11.6	-34.7	PASS



Band Edge Low (802.11g 6Mbps 2412MHz)

Frequency (MHz)	Level (dBm)
2414.525000	-5.3

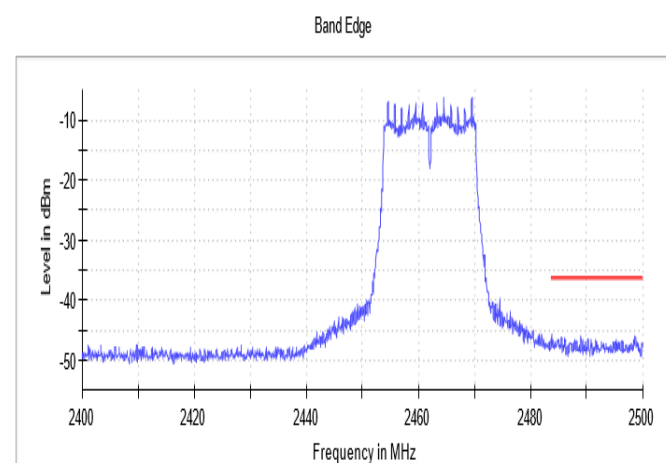
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.225000	-35.3	0.1	-35.3	PASS
2399.275000	-35.5	0.2	-35.3	PASS
2399.125000	-36.0	0.8	-35.3	PASS
2399.175000	-36.1	0.9	-35.3	PASS
2398.525000	-36.3	1.0	-35.3	PASS
2399.075000	-36.3	1.1	-35.3	PASS
2398.275000	-36.4	1.1	-35.3	PASS
2399.525000	-36.4	1.2	-35.3	PASS
2399.475000	-36.5	1.2	-35.3	PASS
2398.575000	-36.7	1.4	-35.3	PASS
2397.025000	-36.7	1.4	-35.3	PASS
2398.225000	-36.7	1.4	-35.3	PASS
2396.975000	-36.7	1.5	-35.3	PASS
2398.875000	-36.8	1.5	-35.3	PASS
2398.475000	-36.8	1.6	-35.3	PASS



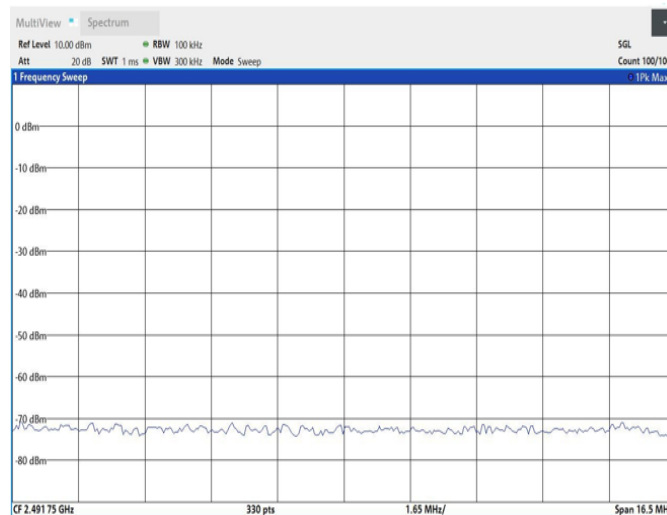
Band Edge High (802.11g 6Mbps 2462MHz)

Frequency (MHz)	Level (dBm)
2464.525000	-6.2

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.725000	-45.8	9.5	-36.2	PASS
2488.975000	-46.0	9.8	-36.2	PASS
2498.625000	-46.1	9.8	-36.2	PASS
2498.675000	-46.1	9.9	-36.2	PASS
2483.775000	-46.2	9.9	-36.2	PASS
2485.525000	-46.2	10.0	-36.2	PASS
2485.475000	-46.2	10.0	-36.2	PASS
2486.075000	-46.3	10.0	-36.2	PASS
2487.875000	-46.5	10.2	-36.2	PASS
2486.125000	-46.5	10.2	-36.2	PASS
2484.725000	-46.5	10.2	-36.2	PASS
2483.925000	-46.5	10.3	-36.2	PASS
2495.225000	-46.5	10.3	-36.2	PASS
2495.175000	-46.5	10.3	-36.2	PASS
2498.425000	-46.6	10.3	-36.2	PASS



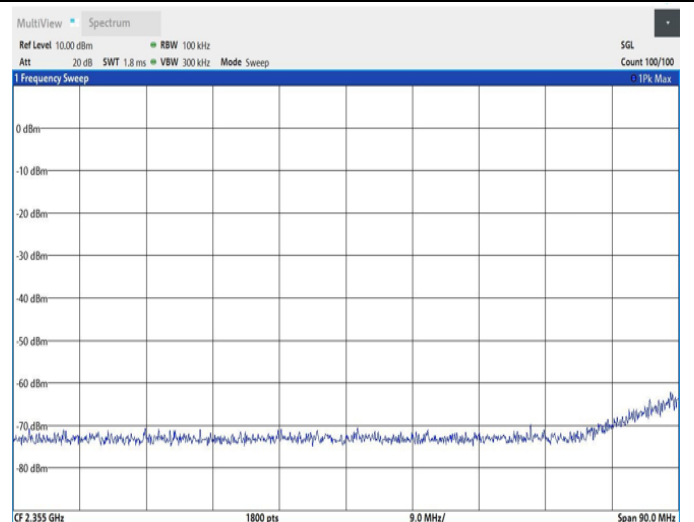
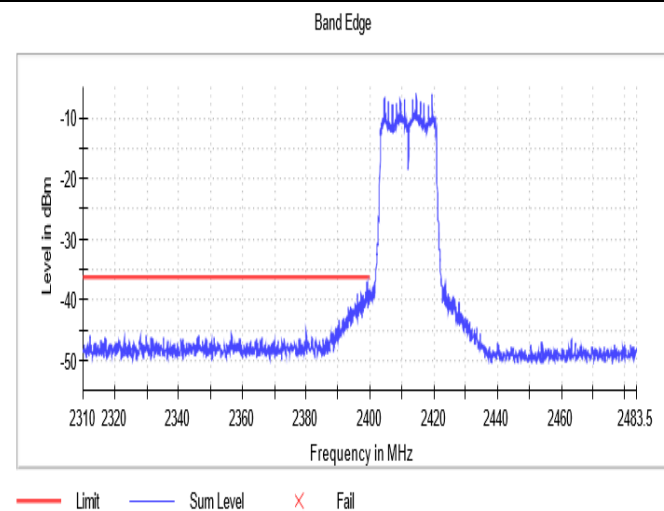
— Limit — Sum Level × Fail



Band Edge Low (802.11n (HT20) MCS0 2412MHz)

Frequency (MHz)	Level (dBm)
2414.525000	-6.3

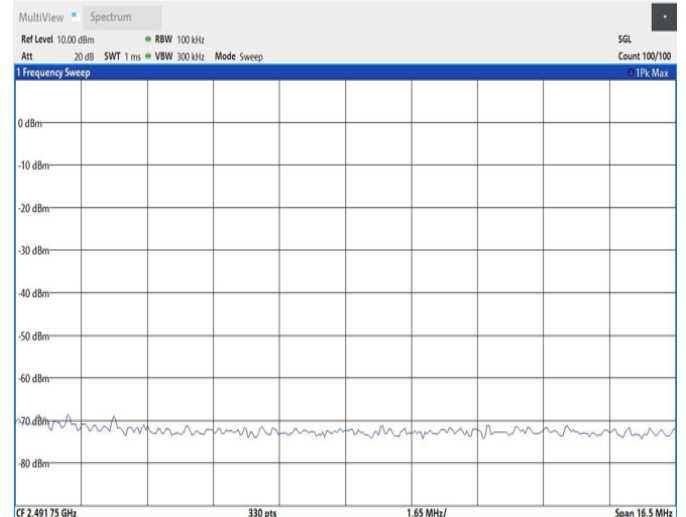
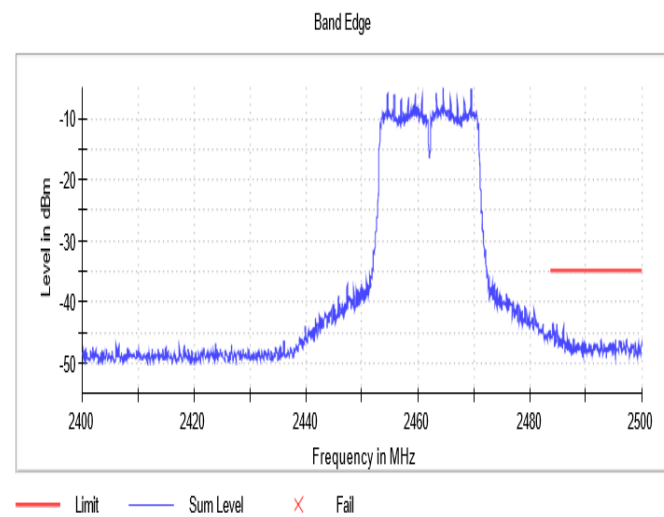
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2398.875000	-37.3	1.0	-36.3	PASS
2398.925000	-37.5	1.2	-36.3	PASS
2399.125000	-37.7	1.4	-36.3	PASS
2399.175000	-38.0	1.8	-36.3	PASS
2398.825000	-38.1	1.9	-36.3	PASS
2399.975000	-38.5	2.2	-36.3	PASS
2399.525000	-38.5	2.3	-36.3	PASS
2399.475000	-38.7	2.5	-36.3	PASS
2399.925000	-38.8	2.5	-36.3	PASS
2399.875000	-38.8	2.5	-36.3	PASS
2398.575000	-38.8	2.5	-36.3	PASS
2399.425000	-38.9	2.6	-36.3	PASS
2399.825000	-38.9	2.6	-36.3	PASS
2399.075000	-38.9	2.7	-36.3	PASS
2398.625000	-38.9	2.7	-36.3	PASS



Band Edge High (802.11n (HT20) MCS0 2462MHz)

Frequency (MHz)	Level (dBm)
2464.525000	-5.1

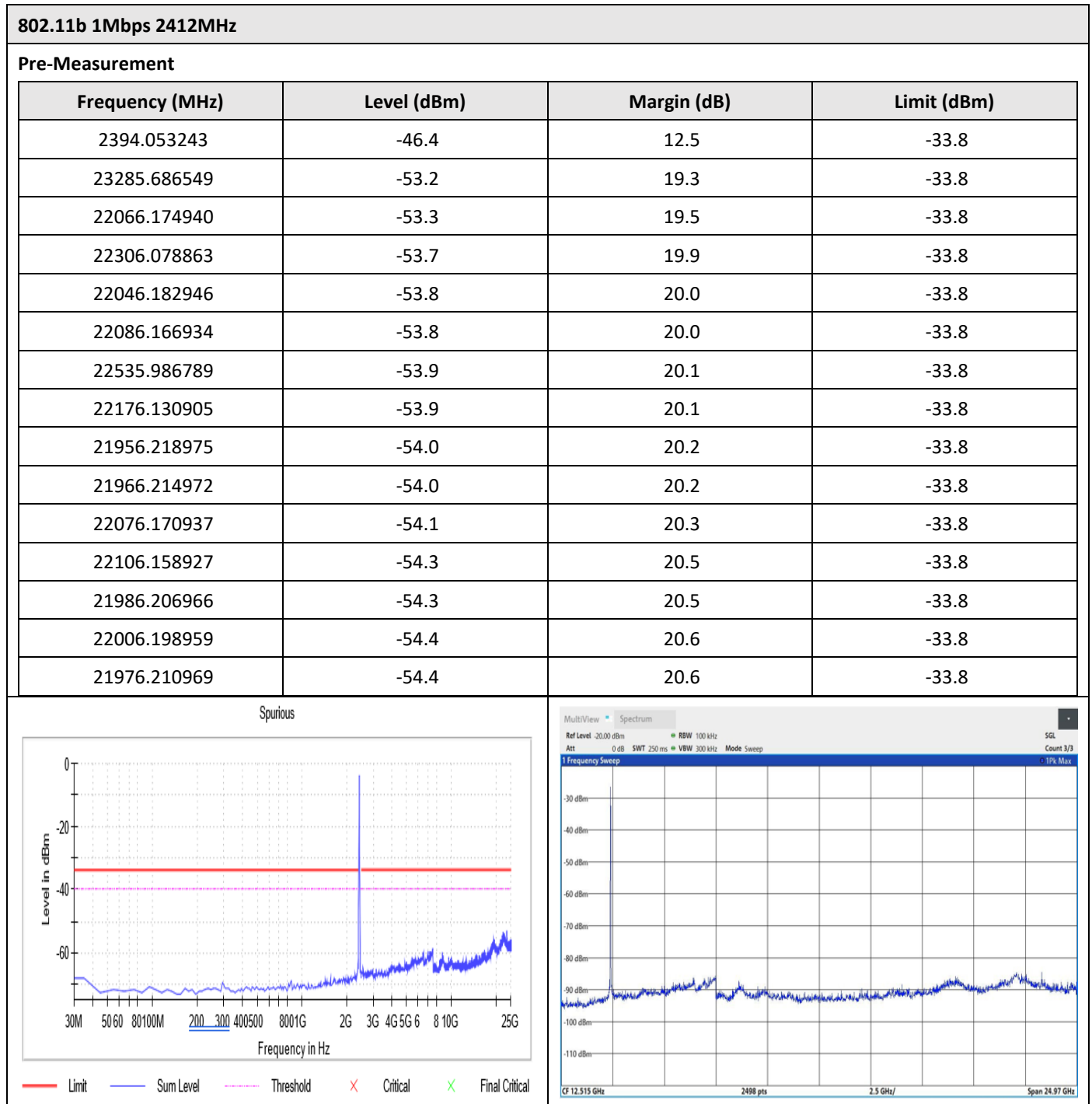
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2484.825000	-43.6	8.5	-35.1	PASS
2484.125000	-43.8	8.7	-35.1	PASS
2484.075000	-43.9	8.7	-35.1	PASS
2485.975000	-44.0	8.9	-35.1	PASS
2484.875000	-44.3	9.1	-35.1	PASS
2484.225000	-44.4	9.3	-35.1	PASS
2484.275000	-44.5	9.3	-35.1	PASS
2483.625000	-44.7	9.5	-35.1	PASS
2483.575000	-44.8	9.7	-35.1	PASS
2486.025000	-44.9	9.8	-35.1	PASS
2484.525000	-45.1	10.0	-35.1	PASS
2485.925000	-45.1	10.0	-35.1	PASS
2484.025000	-45.3	10.1	-35.1	PASS
2484.475000	-45.3	10.2	-35.1	PASS
2484.325000	-45.4	10.3	-35.1	PASS



4.4.6 Tx Spurious Emissions

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05r02 8.5 and ANSI C63.10-2013 11.11.2 & 11.11.3, RSS-247 5.5

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1.8 dB

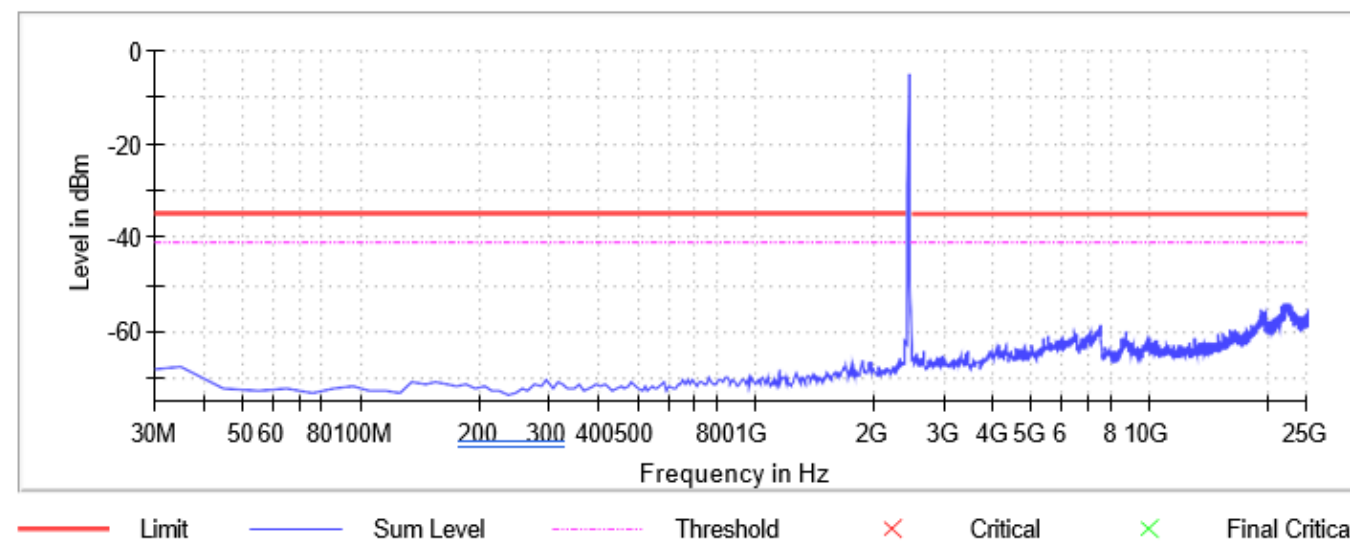


802.11b 1Mbps 2437MHz

Pre-Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
21916.234988	-53.8	19.2	-34.7
21996.202962	-53.9	19.3	-34.7
22106.158927	-54.0	19.3	-34.7
22166.134908	-54.0	19.4	-34.7
22515.994796	-54.1	19.4	-34.7
22046.182946	-54.1	19.4	-34.7
22116.154924	-54.2	19.5	-34.7
22645.942754	-54.2	19.6	-34.7
22076.170937	-54.2	19.6	-34.7
21946.222978	-54.2	19.6	-34.7
22096.162930	-54.2	19.6	-34.7
21406.439151	-54.2	19.6	-34.7
22056.178943	-54.4	19.7	-34.7
21956.218975	-54.4	19.7	-34.7
22206.118895	-54.5	19.8	-34.7

Spurious

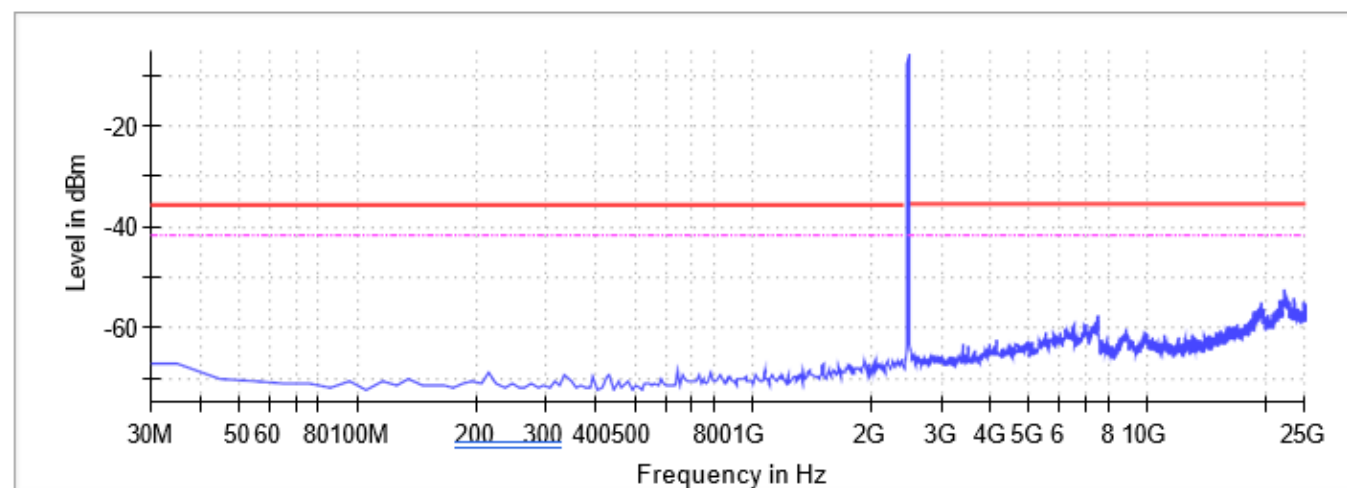


802.11b 1Mbps 2462MHz

Pre-Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
22016.194956	-52.9	17.1	-35.7
22106.158927	-53.4	17.7	-35.7
22126.150921	-53.5	17.8	-35.7
21966.214972	-53.8	18.0	-35.7
22056.178943	-54.0	18.2	-35.7
22066.174940	-54.3	18.5	-35.7
22046.182946	-54.3	18.6	-35.7
22076.170937	-54.4	18.6	-35.7
22026.190953	-54.5	18.7	-35.7
22116.154924	-54.5	18.7	-35.7
22176.130905	-54.5	18.7	-35.7
22246.102882	-54.6	18.8	-35.7
23195.722578	-54.7	18.9	-35.7
22146.142914	-54.7	18.9	-35.7
22156.138911	-54.7	19.0	-35.7

Spurious



— Limit
 — Sum Level
 --- Threshold
 ✗ Critical
 ✗ Final Critical

802.11g 6Mbps 2412MHz

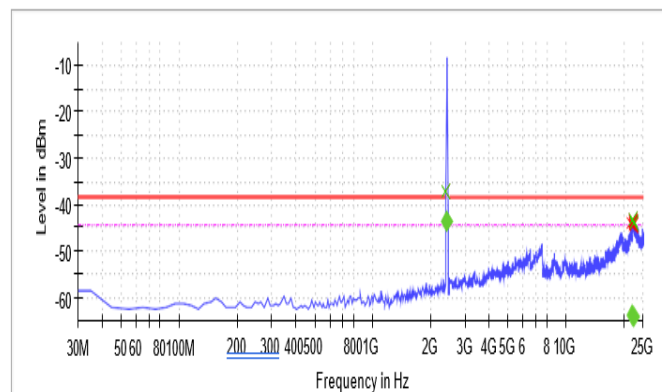
Final Measurement

Frequency (MHz)	Level Pre-Measurement (dBm)	Level (dBm)	Margin (dB)	Limit (dBm)
2399.788904	-20.6	-43.7	5.4	-38.3
22017.092712	-43.2	-63.9	25.6	-38.3
22502.707028	-44.9	-64.4	26.1	-38.3

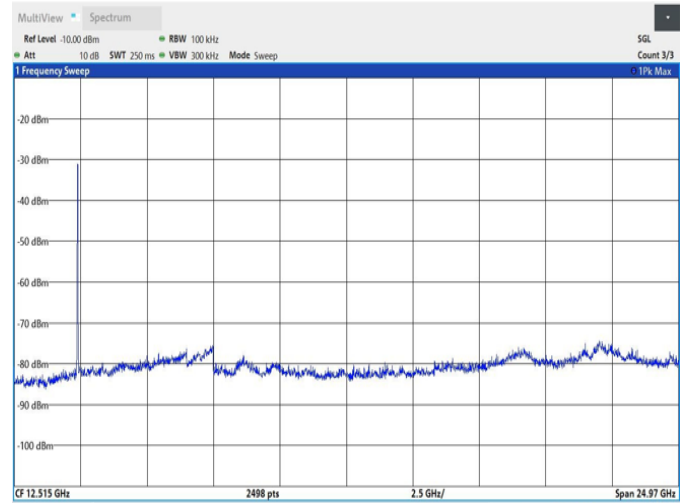
Pre-Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2394.053243	-37.0	-1.3	-38.3
22016.194956	-43.2	4.9	-38.3
22116.154924	-43.3	5.0	-38.3
22026.190953	-43.4	5.1	-38.3
22036.186950	-43.9	5.6	-38.3
21966.214972	-43.9	5.6	-38.3
22366.054844	-44.0	5.7	-38.3
21486.407126	-44.0	5.7	-38.3
21946.222978	-44.0	5.7	-38.3
22236.106886	-44.0	5.7	-38.3
22126.150921	-44.1	5.8	-38.3
22476.010809	-44.1	5.8	-38.3
22505.998799	-44.1	5.8	-38.3
22136.146918	-44.2	5.9	-38.3
22436.026821	-44.3	6.0	-38.3

Spurious



X Limit Final Critical
 ◆ Sum Level Fail
 ◆ Threshold Pass
 X Critical

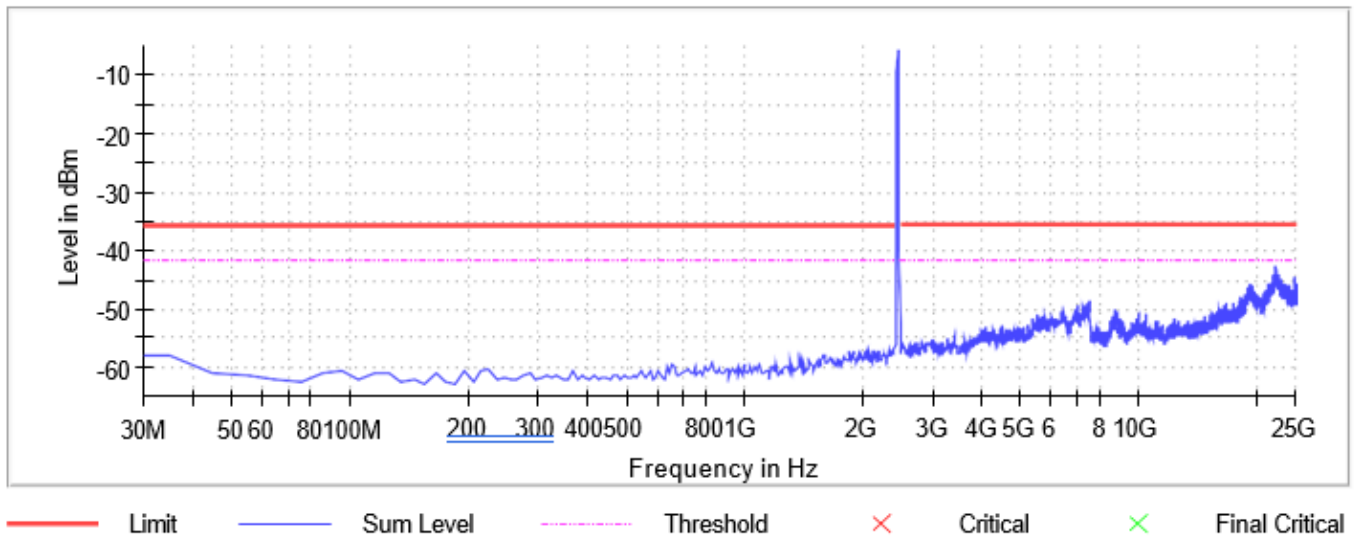


802.11g 6Mbps 2437MHz

Pre-Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
22186.126902	-42.9	7.0	-35.9
22076.170937	-43.6	7.7	-35.9
22006.198959	-43.8	7.8	-35.9
22226.110889	-43.8	7.9	-35.9
22026.190953	-43.9	8.0	-35.9
22016.194956	-44.0	8.1	-35.9
22196.122898	-44.2	8.3	-35.9
22446.022818	-44.4	8.5	-35.9
21946.222978	-44.5	8.5	-35.9
22116.154924	-44.5	8.5	-35.9
22136.146918	-44.5	8.6	-35.9
21746.303042	-44.5	8.6	-35.9
21956.218975	-44.6	8.6	-35.9
22066.174940	-44.6	8.6	-35.9
21906.238991	-44.6	8.7	-35.9

Spurious



802.11g 6Mbps 2462MHz

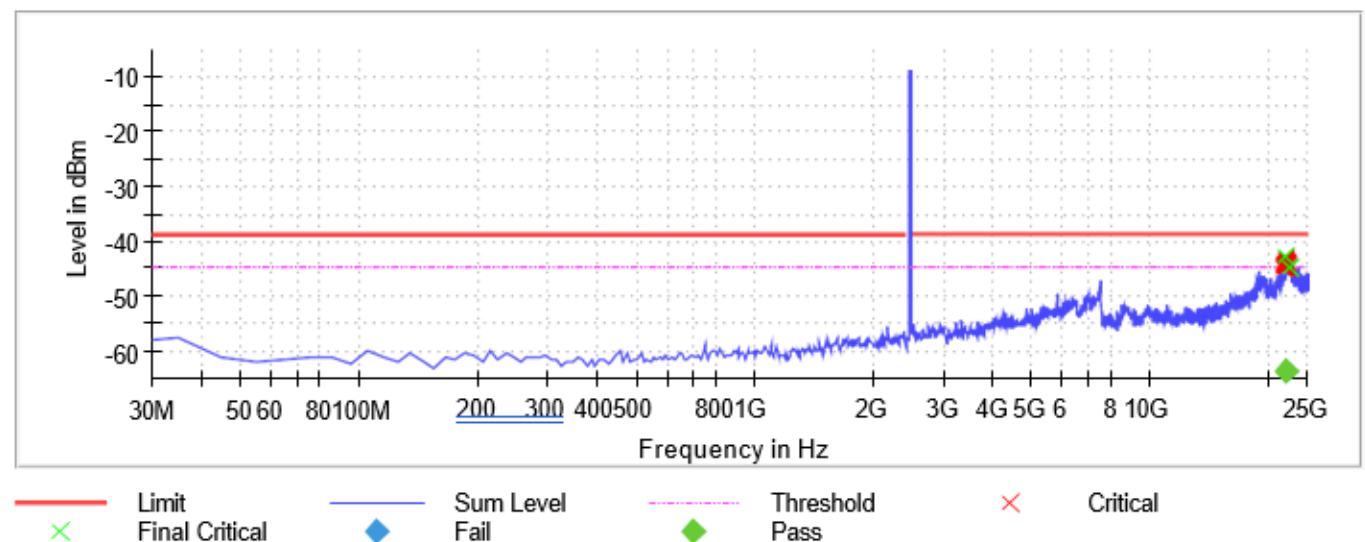
Final Measurement

Frequency (MHz)	Level Pre-Measurement (dBm)	Level (dBm)	Margin (dB)	Limit (dBm)
22031.028858	-43.9	-63.7	24.9	-38.9
22709.060880	-45.0	-65.2	26.4	-38.9

Pre-Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
22026.190953	-43.0	4.2	-38.9
22046.182946	-43.4	4.6	-38.9
22016.194956	-43.7	4.9	-38.9
22076.170937	-43.8	5.0	-38.9
22266.094876	-44.0	5.1	-38.9
21836.267014	-44.1	5.2	-38.9
22136.146918	-44.1	5.2	-38.9
22116.154924	-44.2	5.3	-38.9
21906.238991	-44.2	5.3	-38.9
21936.226982	-44.3	5.4	-38.9
22156.138911	-44.3	5.4	-38.9
21986.206966	-44.3	5.4	-38.9
22166.134908	-44.3	5.4	-38.9
21956.218975	-44.3	5.5	-38.9
22386.046837	-44.4	5.5	-38.9

Spurious



802.11n (HT20) MCS0 2412MHz

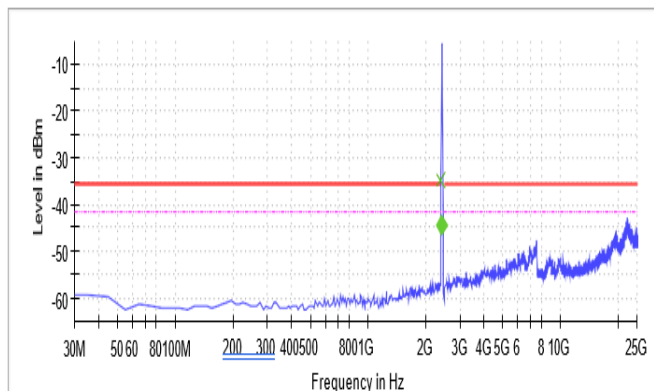
Final Measurement

Frequency (MHz)	Level Pre-Measurement (dBm)	Level (dBm)	Margin (dB)	Limit (dBm)
2398.791398	-20.9	-44.3	8.8	-35.5

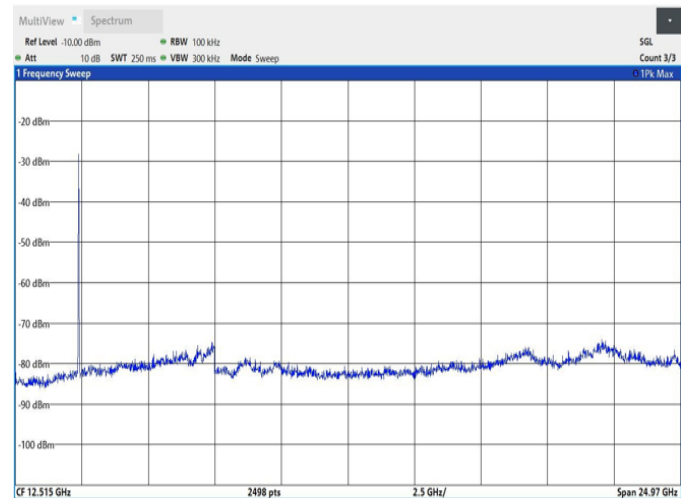
Pre-Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2394.053243	-34.7	-0.9	-35.5
22036.186950	-42.9	7.3	-35.5
22166.134908	-43.1	7.6	-35.5
22086.166934	-43.4	7.8	-35.5
21926.230985	-43.7	8.2	-35.5
22046.182946	-43.8	8.2	-35.5
21906.238991	-43.8	8.2	-35.5
22146.142914	-43.9	8.3	-35.5
21866.255004	-44.0	8.5	-35.5
22206.118895	-44.2	8.7	-35.5
22486.006805	-44.2	8.7	-35.5
22076.170937	-44.3	8.7	-35.5
22016.194956	-44.3	8.7	-35.5
21986.206966	-44.3	8.8	-35.5
22006.198959	-44.3	8.8	-35.5

Spurious



— Limit
— Sum Level
◆ Threshold
X Critical
X Final Critical
◆ Fail
◆ Pass



802.11n (HT20) MCS0 2437MHz

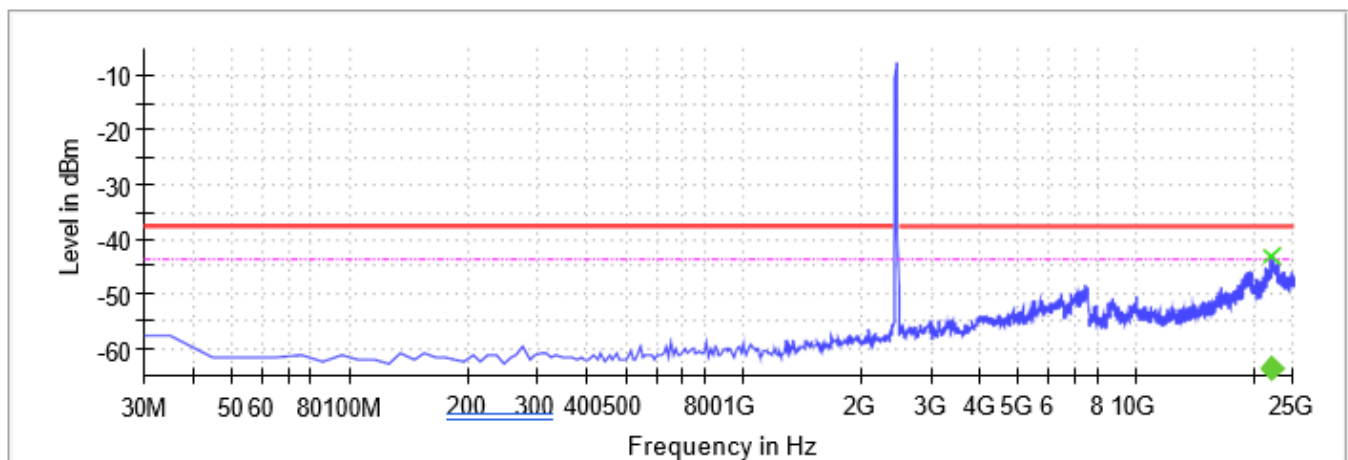
Final Measurement

Frequency (MHz)	Level Pre-Measurement (dBm)	Level (dBm)	Margin (dB)	Limit (dBm)
21965.516718	-43.3	-63.9	26.4	-37.5

Pre-Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
21966.214972	-43.2	5.7	-37.5
21996.202962	-43.3	5.8	-37.5
21896.242994	-43.6	6.1	-37.5
22016.194956	-43.7	6.2	-37.5
21816.275020	-43.7	6.3	-37.5
22106.158927	-43.8	6.3	-37.5
22146.142914	-43.9	6.4	-37.5
22056.178943	-43.9	6.4	-37.5
22166.134908	-44.0	6.5	-37.5
22186.126902	-44.1	6.6	-37.5
22116.154924	-44.1	6.6	-37.5
22126.150921	-44.2	6.7	-37.5
22176.130905	-44.2	6.8	-37.5
22046.182946	-44.3	6.8	-37.5
22086.166934	-44.3	6.8	-37.5

Spurious



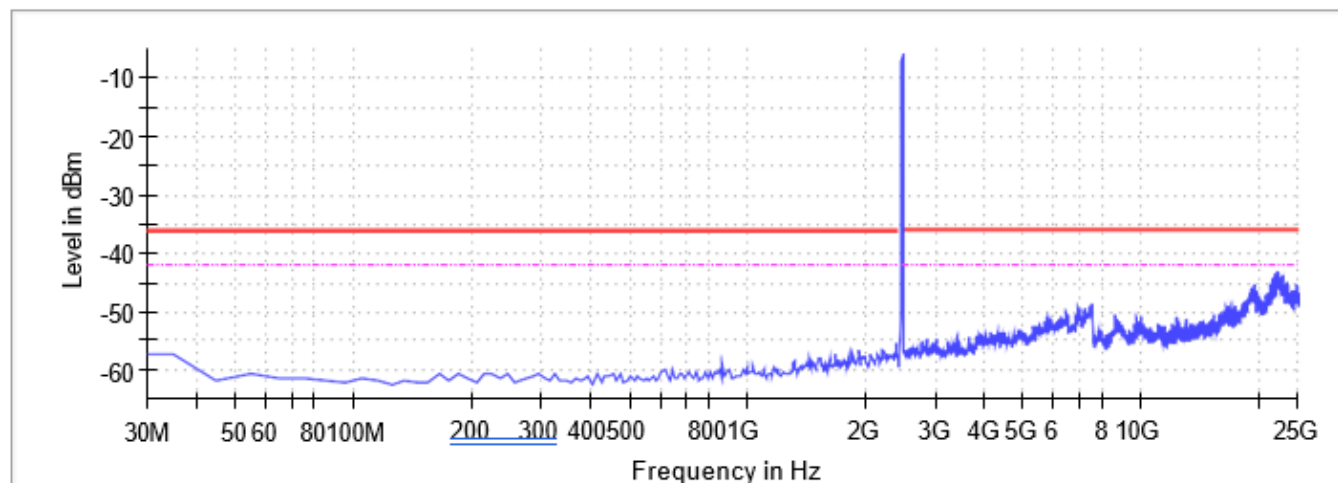
— Limit
— Sum Level
--- Threshold
X Final Critical
◆ Fail
◆ Pass
X Critical

802.11n (HT20) MCS0 2462MHz

Pre-Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2484.017214	-43.2	7.0	-36.2
21986.206966	-43.4	7.2	-36.2
22156.138911	-43.5	7.3	-36.2
22076.170937	-43.7	7.5	-36.2
22046.182946	-43.7	7.5	-36.2
21926.230985	-43.7	7.5	-36.2
22096.162930	-43.8	7.6	-36.2
21876.251001	-43.9	7.7	-36.2
22056.178943	-44.0	7.8	-36.2
22226.110889	-44.0	7.8	-36.2
21836.267014	-44.1	7.9	-36.2
22166.134908	-44.2	8.0	-36.2
22645.942754	-44.2	8.0	-36.2
22106.158927	-44.3	8.1	-36.2
21576.371097	-44.3	8.1	-36.2

Spurious



5. Radiated Testing

5.1 Test Summary

Start: 07/29/2024	End: 08/01/2024	Temperature: 22.6°C Humidity: 49.4%R.H	Initials: AP/AB
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DUT S/N	J23133#2 NA 3B	DUT Operating Mode		2.4GHz WLAN
Comment	Worst case modulations 802.11b 1Mbps and 802.11n MCS0 from each family selected for full testing.			
Antenna	Frequency Range	Polarization	Result Over/Under Limit	Notes
Loop	9kHz-30MHz	Parallel	☐ Over ☒ Under	√
		Perpendicular	☐ Over ☒ Under	√
		Ground-Parallel	☐ Over ☒ Under	√
Log Periodic	30MHz-1GHz	Horizontal	☐ Over ☒ Under	√
		Vertical	☐ Over ☒ Under	√
Horn	1GHz-18GHz	Horizontal	☐ Over ☒ Under	√
		Vertical	☐ Over ☒ Under	√
Horn	18GHz-27.5GHz	Horizontal	☐ Over ☒ Under	√
		Vertical	☐ Over ☒ Under	√

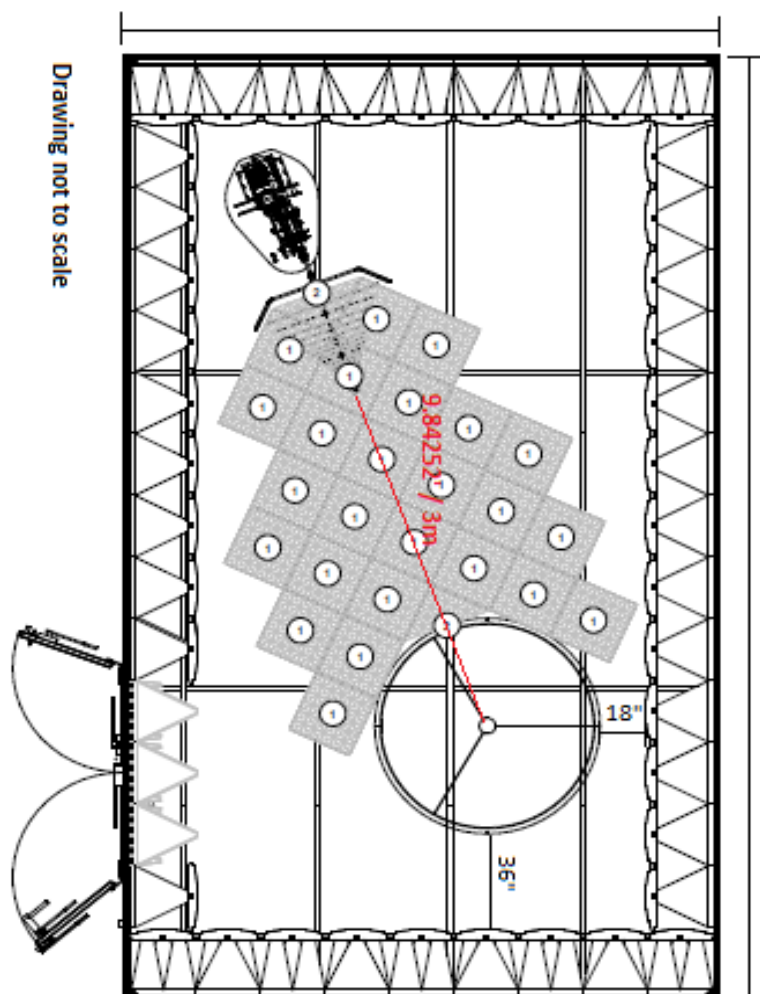
Notes: √ meets the requirements of the acceptance criteria.

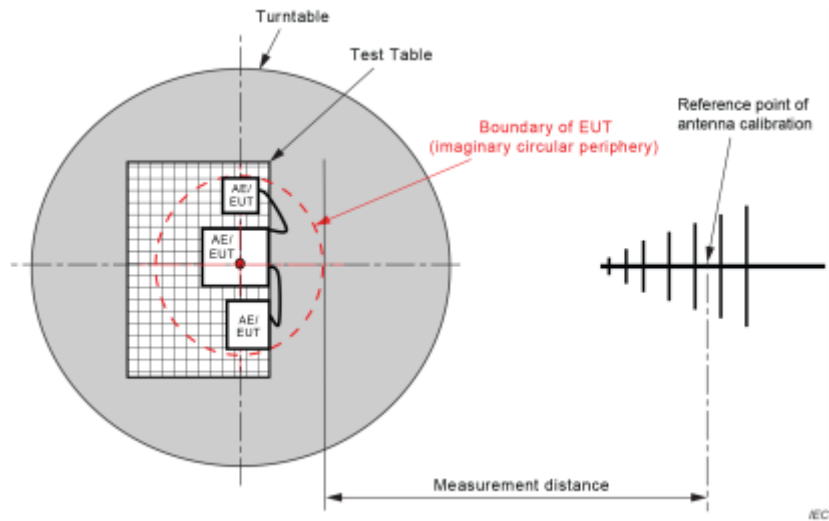
5.2 Test Setup

Semi-Anechoic Chamber Test Site-3 meter

Chamber Location	815 N Opdyke Rd Auburn Hills, Michigan 48326
Chamber Manufacturer:	ETS-Lindgren
Chamber Type	Semi-Anechoic
Model	FACT™ 3-2.0 Plus
Chamber Dimensions (L x W x H)	18'x18'x30'
Quiet Zone Diameter	2.0 meters
Quiet Zone Test Heights	1 & 2 meters (front only)
Test Distance	3.0 meters
Test Frequency Range	1-40 GHz
Measured Performance	4.87 dB Site sVSWR

Chamber Dimensions





5.3 Test Equipment Used

ID #	Equipment	Manufacturer	Model #	Serial #	Cal Due
BVD0217	Receiver 2Hz-44GHz	Rohde & Schwarz	ESW44	101871	4/21/2025
BVD0118	Antenna Mast Position Controller	ETS	7006-001	00214778/00214648	N/A
BVD0111	3 Meter Anechoic Chamber	ETS	N/A	N/A	N/A
BVD0247	Turn Table	ETS	920250	N/A	N/A
BVD0323	Foam Test Table For 3 Meter Chamber	ETS-Lindgren	LDT-1.5	N/A	N/A
BVD0069	Bore Sight Tower	ETS	2171B	226732	N/A
BVD0312	Optima 12V Blue top Marine battery	Optima	D34M	N/A	N/A
BVD0187	Preamplifier 25dB cal to 100kHz-1GHz	Rohde & Schwarz	TS-PR1	102080	1/23/2025
BVD0184	Preamplifier 29dB 1-18GHz	Rohde & Schwarz	TS-PR18	101646	6/20/2025
BVD0185	Preamplifier 45dB 18-40GHz	Rohde & Schwarz	TS-PR1840	100064	6/20/2025
BVD0011	Loop Antenna 9kHz-30MHz	Rohde & Schwarz	FMZB1519B	145	6/10/2025
BVD0021	UltraLog Antenna 30-6000MHz	Rohde & Schwarz	HL562E	101113	6/26/2025
BVD0267	Double Ridge Waveguide 800MHz-18GHz	Rohde & Schwarz	HF907	102832	6/27/2025
BVD0320	18-40GHz Horn Antenna	L3 Narda ATM	PNR 180-442-KF	136164-01	7/15/2025
BVD0045	Field Probe Mast	Rohde & Schwarz	TS-FPMA	N/A	N/A
BVD0480	Band Reject Filter 50dB from 2400 to 2500MHz	Micro-Tronics	BRM50702	G482	6/17/2025
BVD0394	Double Shielded N-Type Cable 6.9 Meter	Rohde & Schwarz	N-Type	N/A	4/8/2025
BVD0398	Double Shielded N-Type Cable 2 Meter	Rohde & Schwarz	N-Type	N/A	4/8/2025
BVD0563	RF Cable Assembly	Huber+Suhner, inc	SUCOFLEX 102A	502215/2A	10/17/2024
BVD0407	Double Shielded N-Type Cable 410mm (For PreAmp)	Rohde & Schwarz	N-Type	N/A	10/15/2025
BVD0495	SMA Shielded Cable approx 100mm (for Pre-Amp)	Rohde & Schwarz	SMA-Type	N/A	7/15/2025
BVD0587	Double Shielded N-Type Cable 440mm (For PreAmp)	Winchester Interconnect	250-251-660157 REV A	N/A	1/9/2025
BVD0229	Temp and Humidity Meter	Fluke	971	12001009	5/23/2025

Equipment List (Software)

ID #	Equipment	Manufacturer	Model	Version No.	
N/A	EMC Test Software	Rodhe & Schwarz	EMC32	11.20.00	N/A

Customer Supplied Equipment

ID #	Equipment	Manufacturer	Model	Serial #	Version No.
N/A	Harness	Harman	N/A	N/A	N/A
N/A	Display Unit	MOBIS	BMM6100000	231107 01	N/A
N/A	Shark Fin Antenna	Alfa Romeo	B901	719147	N/A
N/A	Antenna	Aptiv	APN35409682	N/A	N/A
N/A	Camera	N/A	23295906C	N/A	N/A
N/A	MFGBridge_Tool/Dut labtool	N/A	N/A	N/A	2.0.0.89

5.4 Test Limits and Procedures

Radiated emissions that fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Other emissions shall be at least 20dB below the highest level of the desired power.

Frequencies (MHz)	Field strength ($\mu\text{V/m}$)	Field strength (dB $\mu\text{V/m}$)	Measurement distance (meters)
0.009 ~ 0.490	2400/F(kHz)	48.5 - 13.8	300
0.490 ~ 1.705	24000/F(kHz)	33.8 - 23	30
1.705 ~ 30.0	30	29.54	30
30 ~ 88	100	40.0	3
88 ~ 216	150	43.5	3
216 ~ 960	200	46.0	3
Above 960	500	54.0	3

Note:

- The lower limit shall apply at the transition frequencies.
- As per 15.35(b), for frequencies above 1000MHz, the field strength limits based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- For performing measurements at a specified distance of 3m, the values are extrapolated using extrapolation factor.
Frequencies below 30MHz are extrapolated using 40dB/decade.
Frequencies above 30MHz are extrapolated using 20dB/decade.

Frequencies (MHz)	Formula for Limits derivation for below 30MHz	Limits for frequencies below 30MHz (dB $\mu\text{V/m}$)
0.009 ~ 0.490	2400/F(kHz) + 40 Log (300m/3m)	128.5 ~ 93.8
0.490 ~ 1.705	24000/F(kHz) + 40 Log (30m/3m)	73.8 ~ 62.96
1.705 ~ 30.0	29.54 + 40 Log (30m/3m)	69.54

Radiated emissions that fall in restricted bands, as defined in RSS-GEN Section 8.10 must also comply with radiated emissions limits specified in RSS-GEN Section 8.9

The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 Ω .

The measurement procedures are as per ANSI C63.10-2013 Sections 6.3, Section 6.4, Section 6.5, and Section 6.6

1. The table height for emissions measurements
 - i) Below 1 GHz, the table height is 80 cm above the reference ground plane.
 - ii) Above 1 GHz, the table height is 1.5 m
2. Radiated emission tests are performed in the frequency range
 - i) 9 kHz to 30 MHz, using a calibrated loop antenna
 - ii) 30 MHz to 1GHz, using a calibrated log antenna
 - iii) Above 1 GHz using a calibrated horn antenna
3. Measurements performed with the EUT rotated from 0° to 360°, the antenna height scanned between 1m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

5.5 EMI Test Receiver/Spectrum Analyzer Settings

Below 1GHz

Frequency	RBW	Detector
9KHz to 30MHz	9KHz	Peak

Frequency	RBW	Detector
30MHz to 1GHz	120KHz	Peak/Quasi Peak

Above 1GHz

Frequency	RBW	Detector
1GHz to 40GHz	1 MHz	Peak/ Power Averaging (RMS)

Note: Trace average is 100 traces for continuous transmission else the traces shall be increased by a factor of $1/x$, where x is the duty cycle. Duty cycle $> 98\%$ no correction factor needed and for Duty cycle $< 98\%$ the correction factor $10 \log (1/x)$, where x is the duty cycle.

5.6 Test Data

Uncertainty

Radiated Emissions (30MHz to 40GHz)

Test Engineer Initials: AP/AB

The test is to measure the radiated emissions of the EUT. Some error sources that can contribute to the total uncertainty:

- Uncertainty of the receiver
- Uncertainty of the antenna
- Uncertainty of cables
- Uncertainty due to the mismatches
- NSA Calibration
- Etc., details see the below table

30MHz to 1GHZ

Source of Uncertainty	Value (dB)	ProbabilityDistribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Receiver Reading	0.12	Rectangular	1.732	1	0.069284
Cable Insertion Loss	0.21	Normal	2	1	0.105
Filter Insertion Loss	0.25	Normal	2	1	0.125
Antenna Factor	0.65	Normal	2	1	0.325
Receiver CW accuracy	0.5	Rectangular	1.732	1	0.2886836
Pulse Amplitude Response	1.5	Rectangular	1.732	1	0.86605081
PRF Response	1.5	Rectangular	1.732	1	0.86605081
Mismatch Filter – Receiver	0.25	U-Shape	2.449	1	0.1768033
NSA Calibration	4.0	Triangular	1.414	1	1.633332
ETS Foam Table (LDT-1.5)	1.8	Rectangular	1.732	1	1.039261
Combined Standard Uncertainty (square root of the sum of the squares)					2.113781
Expanded Uncertainty (K=2)					4.227562

The total derived measurement uncertainty is +/- 4.228 dB

1GHz to 40GHz

Source of Uncertainty	Value (dB)	Probability Distribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Receiver Reading	0.12	Rectangular	1.732	1	0.069284
Cable Insertion Loss	0.21	Normal	2	1	0.105000
Filter Insertion Loss	0.25	Normal	2	1	0.125000
Antenna Factor	0.65	Normal	2	1	0.325000
Receiver CW accuracy	0.5	Rectangular	1.732	1	0.2886836
Pulse Amplitude Response	1.5	Rectangular	1.732	1	0.866051
PRF Response	1.5	Rectangular	1.732	1	0.866051
Mismatch Filter – Receiver	0.25	U-Shape	1.414	1	0.176803
VSWR Calibration	2.0	Triangular	2.449	1	0.816659
ETS Foam Table (LDT-1.5)	1.8	Rectangular	1.732	1	1.039261
Combined Standard Uncertainty (square root of the sum of the squares)					1.869213
Expanded Uncertainty (K=2)					3.738426

The total derived measurement uncertainty is +/- 3.738 dB.

Remarks:

1. Level Q-Peak Reading (dBμV/m) = Raw Q-Peak Level + Correction Factor
2. Correction Factor (dB) = Antenna Factor + Cable Loss – Preamplifier Gain
3. Margin = Level Q-Peak Reading – Limit

Remarks:

1. Level Peak Reading (dBμV/m) = Raw Peak Level + Correction Factor
2. Correction Factor (dB) = Antenna Factor + Cable Loss – Preamplifier Gain
3. Margin = Level Peak Reading – Limit

Remarks:

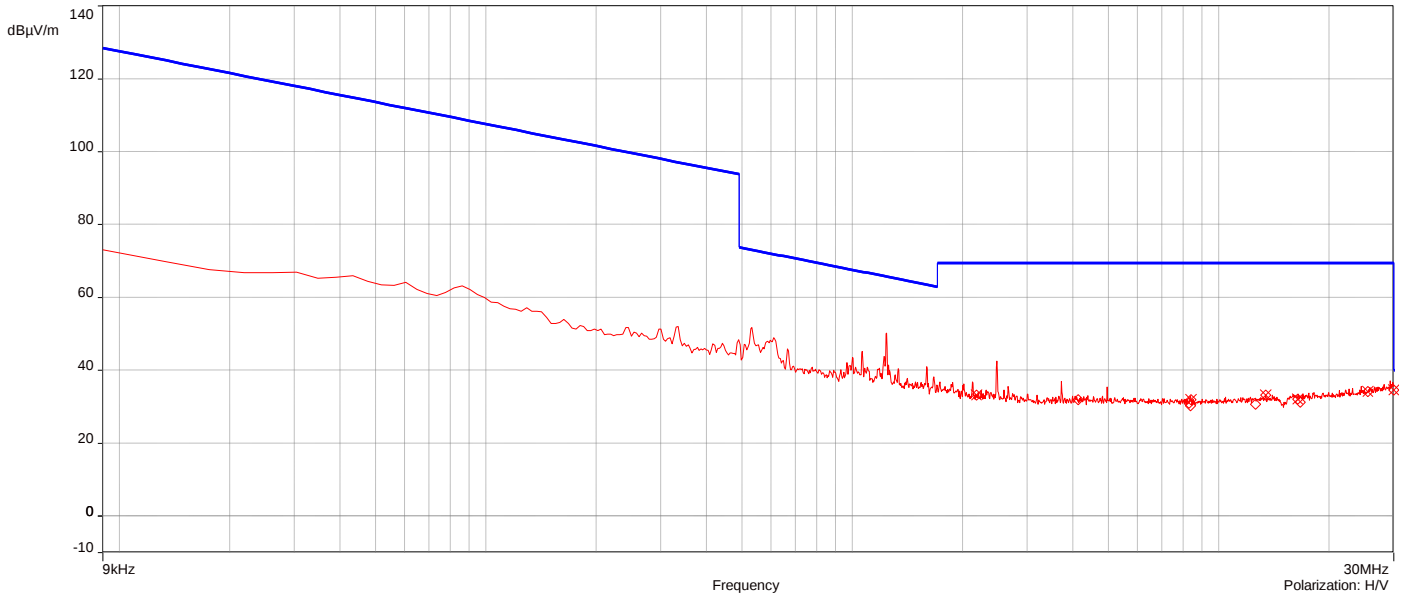
1. Level Average Reading (dBμV/m) = Raw Average Level + Correction Factor
2. Correction Factor (dB) = Antenna Factor + Cable Loss – Preamplifier Gain
3. Margin = Level Average Reading – Limit

J23133_2.4G 802.11b_Ch 6_9kHz-30MHz_Ground-Parallel

8/1/2024 8:50:16 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.181516MHz	33.26	19.59	69.54	-36.28	1.00	110.50	H/V	Passed
2.	8.377685MHz	32.00	19.52	69.54	-37.54	1.00	2.10	H/V	Passed
3.	13.395467MHz	33.16	19.90	69.54	-36.38	1.00	299.70	H/V	Passed
4.	16.420706MHz	32.07	20.07	69.54	-37.47	1.00	15.10	H/V	Passed
5.	25.522132MHz	34.26	21.14	69.54	-35.28	1.00	193.40	H/V	Passed
6.	30MHz	34.63	22.04	40.00	-5.37	1.00	32.50	H/V	Passed

Overall Graphs:

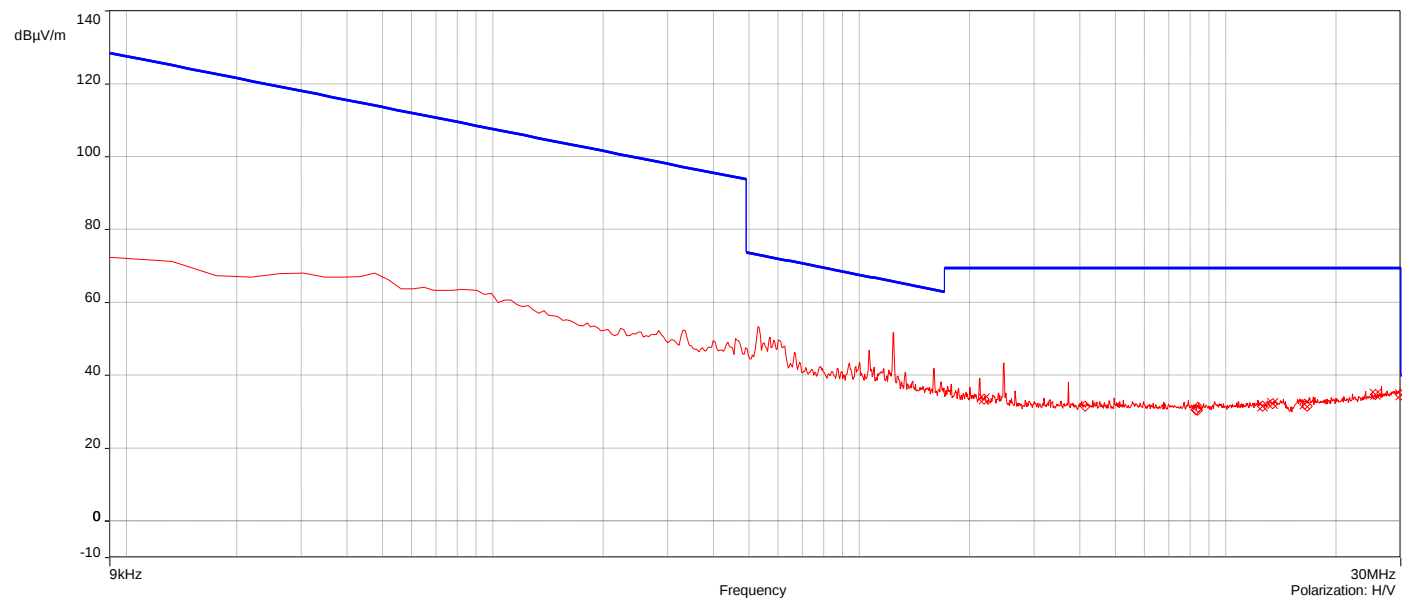


J23133_2.4G 802.11b_Ch 6_9kHz-30MHz_Parallel

8/1/2024 8:56:12 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.185801MHz	33.49	19.59	69.54	-36.05	1.00	105.50	H/V	Passed
2.	12.577024MHz	31.53	19.84	69.54	-38.01	1.00	16.20	H/V	Passed
3.	13.399752MHz	32.30	19.90	69.54	-37.24	1.00	279.30	H/V	Passed
4.	16.420706MHz	32.13	20.07	69.54	-37.41	1.00	253.40	H/V	Passed
5.	25.612118MHz	34.70	21.15	69.54	-34.84	1.00	40.10	H/V	Passed
6.	30MHz	34.66	22.04	40.00	-5.34	1.00	87.70	H/V	Passed

Overall Graphs:

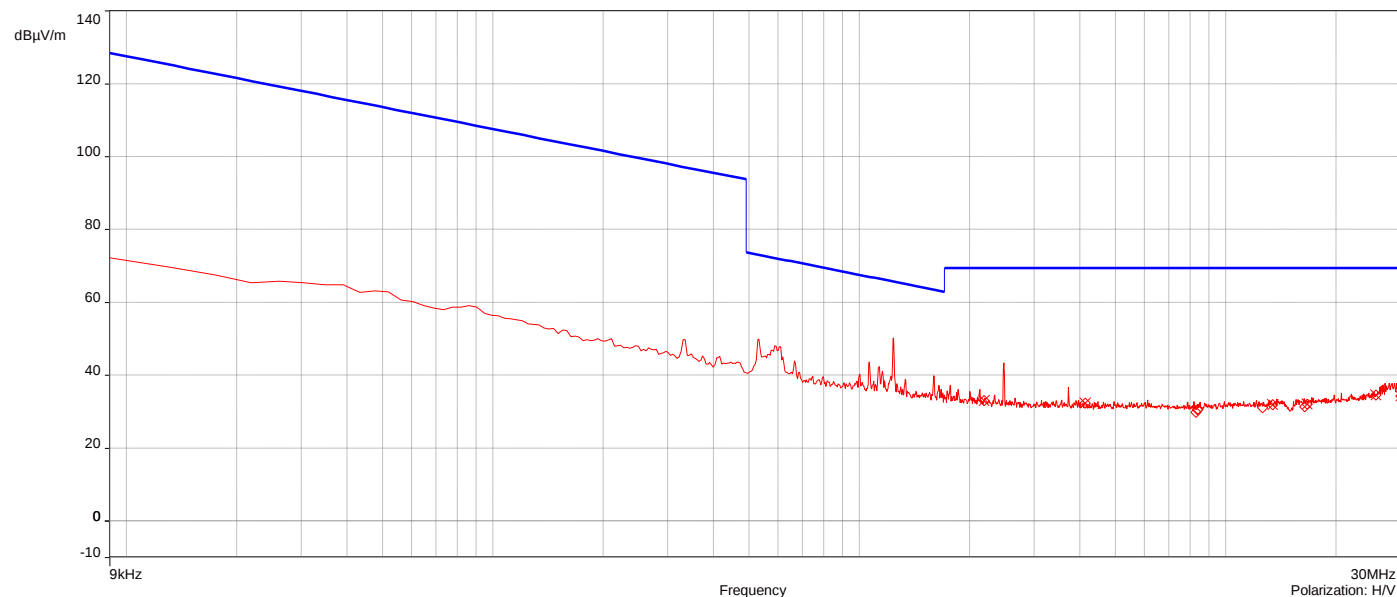


J23133_2.4G 802.11b_Ch 6_9kHz-30MHz_Perpendicular

8/1/2024 8:53:13 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.185801MHz	33.06	19.59	69.54	-36.48	1.00	171.60	H/V	Passed
2.	4.126924MHz	32.42	19.74	69.54	-37.12	1.00	217.40	H/V	Passed
3.	13.404037MHz	31.94	19.90	69.54	-37.60	1.00	44.00	H/V	Passed
4.	16.694949MHz	32.13	20.11	69.54	-37.41	1.00	219.80	H/V	Passed
5.	25.654969MHz	34.63	21.15	69.54	-34.91	1.00	338.90	H/V	Passed
6.	30MHz	34.39	22.04	40.00	-5.61	1.00	256.30	H/V	Passed

Overall Graphs:

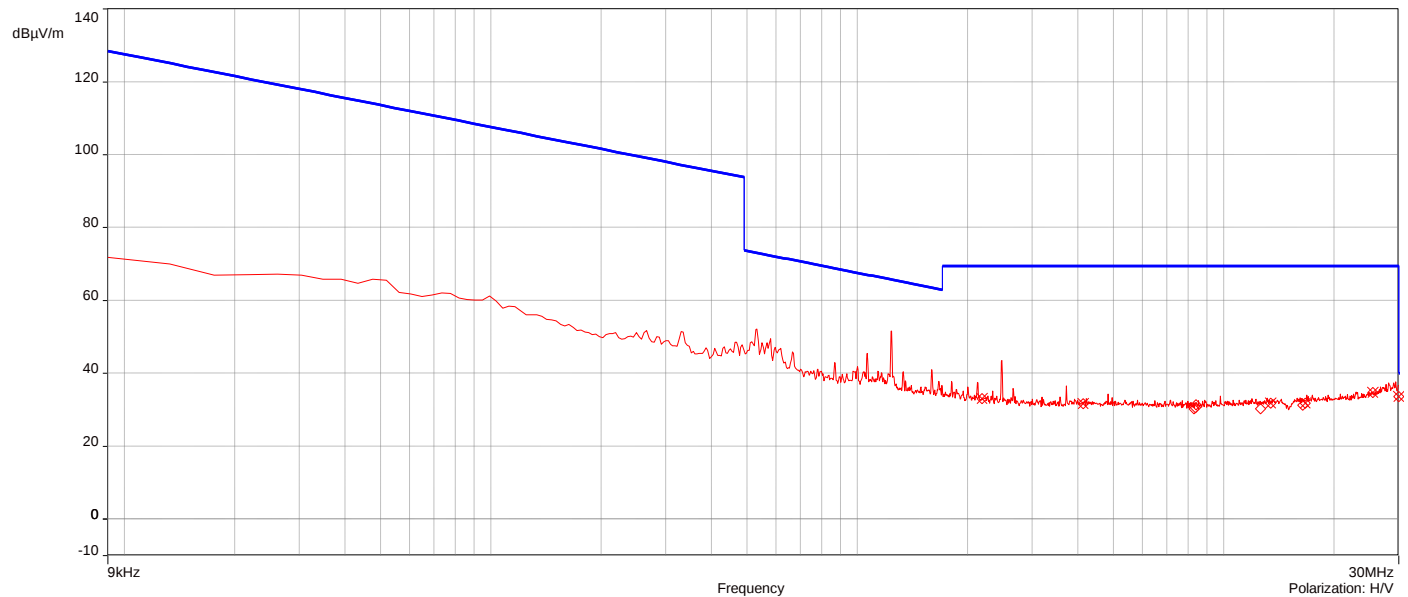


J23133_2.4G 802.11n_Ch 6_9kHz-30MHz_Ground-Parallel

8/1/2024 9:09:57 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.190086MHz	33.16	19.59	69.54	-36.38	1.00	114.40	H/V	Passed
2.	4.126924MHz	31.75	19.74	69.54	-37.79	1.00	288.50	H/V	Passed
3.	13.408322MHz	31.86	19.91	69.54	-37.68	1.00	40.30	H/V	Passed
4.	16.694949MHz	31.88	20.11	69.54	-37.66	1.00	131.80	H/V	Passed
5.	25.522132MHz	34.72	21.14	69.54	-34.82	1.00	18.80	H/V	Passed
6.	30MHz	33.60	22.04	40.00	-6.40	1.00	103.60	H/V	Passed

Overall Graphs:

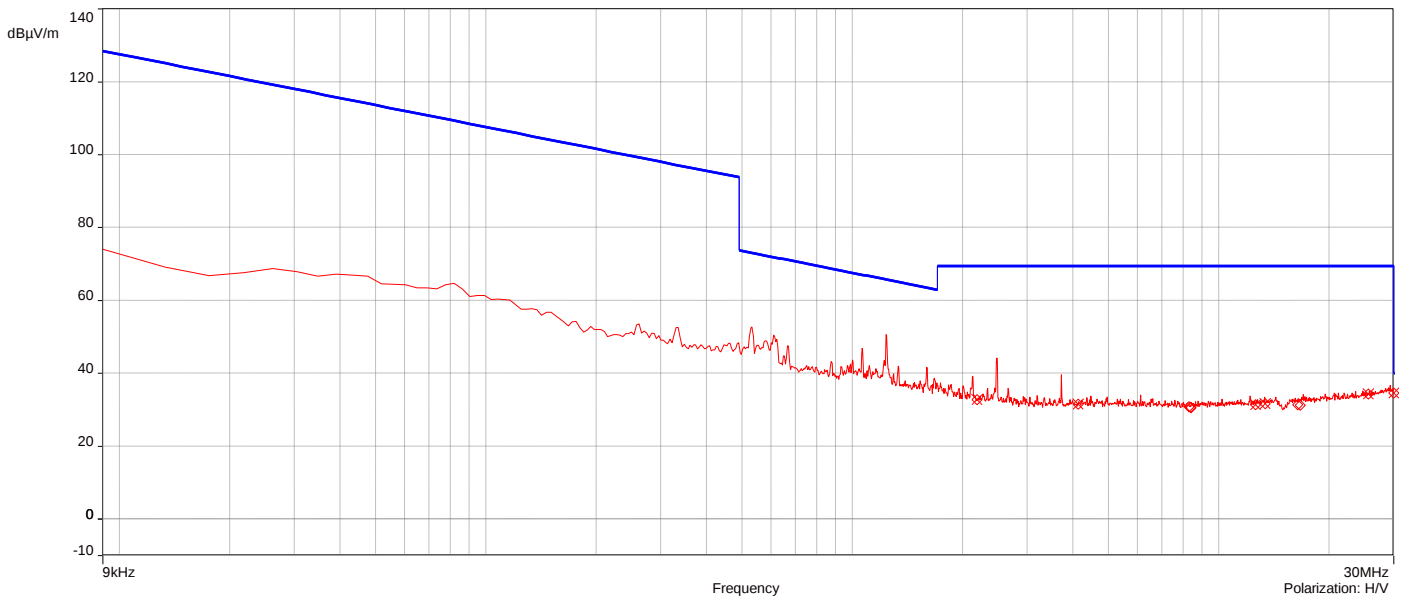


J23133_2.4G 802.11n_Ch 6_9kHz-30MHz_Parallel

8/1/2024 9:00:33 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.185801MHz	32.87	19.59	69.54	-36.67	1.00	78.30	H/V	Passed
2.	4.126924MHz	31.53	19.74	69.54	-38.01	1.00	289.30	H/V	Passed
3.	12.577024MHz	31.44	19.84	69.54	-38.10	1.00	326.50	H/V	Passed
4.	13.378327MHz	31.75	19.90	69.54	-37.79	1.00	276.30	H/V	Passed
5.	25.607833MHz	34.37	21.15	69.54	-35.17	1.00	245.70	H/V	Passed
6.	30MHz	34.62	22.04	40.00	-5.38	1.00	56.90	H/V	Passed

Overall Graphs:

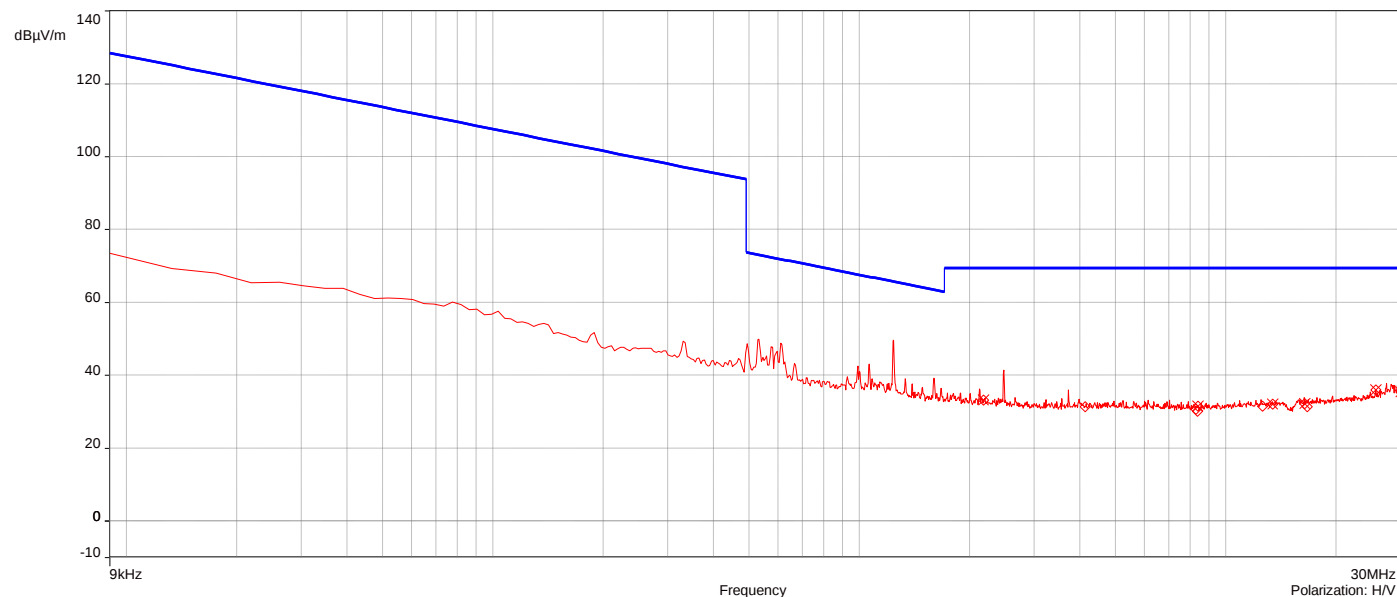


J23133_2.4G 802.11n_Ch 6_9kHz-30MHz_Perpendicular

8/1/2024 9:06:39 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.177231MHz	33.25	19.59	69.54	-36.29	1.00	253.80	H/V	Passed
2.	8.377685MHz	31.61	19.52	69.54	-37.93	1.00	153.50	H/V	Passed
3.	13.399752MHz	32.10	19.90	69.54	-37.44	1.00	66.90	H/V	Passed
4.	16.420706MHz	32.29	20.07	69.54	-37.25	1.00	253.80	H/V	Passed
5.	25.663539MHz	35.95	21.15	69.54	-33.59	1.00	329.70	H/V	Passed
6.	30MHz	35.47	22.04	40.00	-4.53	1.00	218.90	H/V	Passed

Overall Graphs:

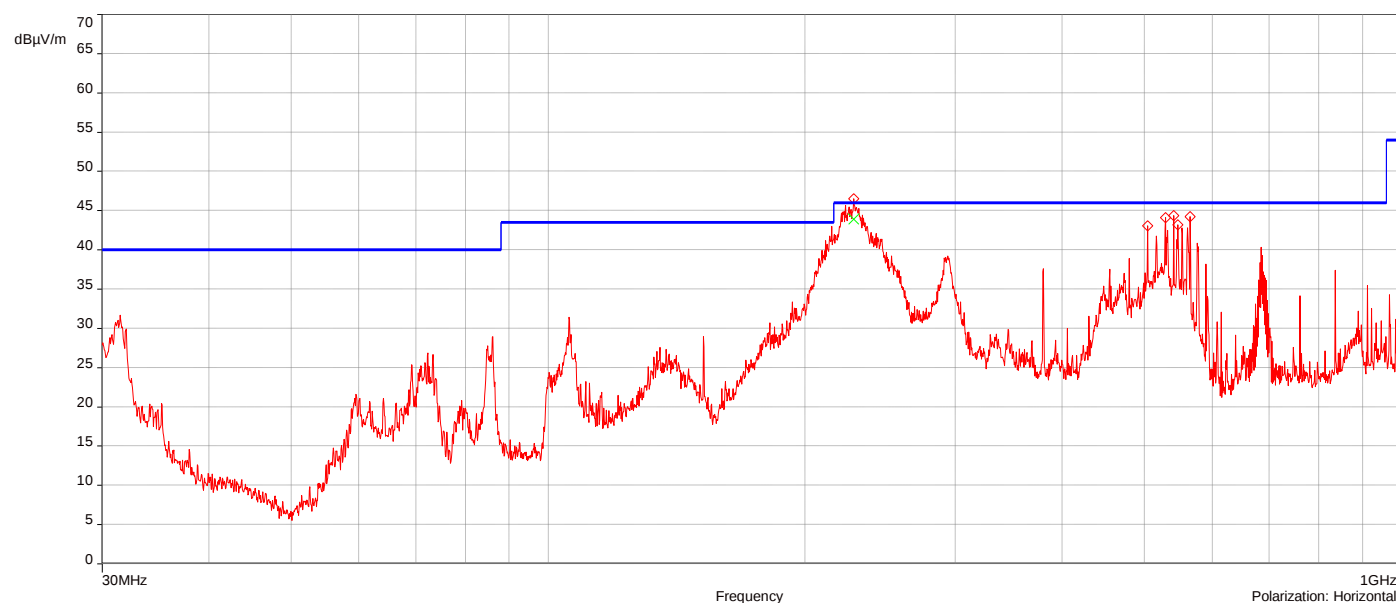


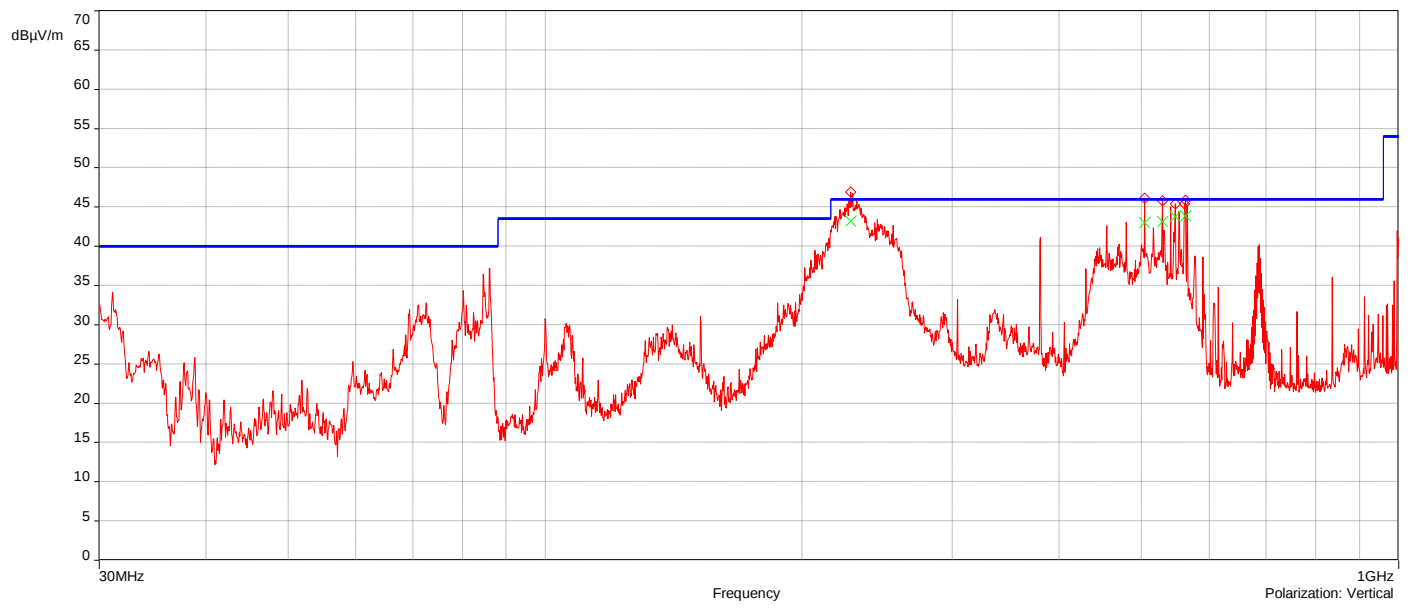
J23133_2.4G_802.11b_1Mbps_Ch 6_30MHz-1GHz

8/1/2024 3:37:38 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	227.9487MHz	43.18	-14.31	46.00	-2.82	1.00	194.90	Vertical	Passed
2.	503.84434MHz	43.02	-7.09	46.00	-2.98	1.00	354.90	Vertical	Passed
3.	528.38108MHz	43.13	-6.89	46.00	-2.87	1.00	325.10	Vertical	Passed
4.	546.98335MHz	43.75	-6.61	46.00	-2.25	1.00	336.90	Vertical	Passed
5.	562.56133MHz	43.85	-6.29	46.00	-2.15	1.00	355.20	Vertical	Passed
6.	228.00576MHz	43.94	-13.81	46.00	-2.06	1.00	194.90	Horizontal	Passed

Overall Graphs:



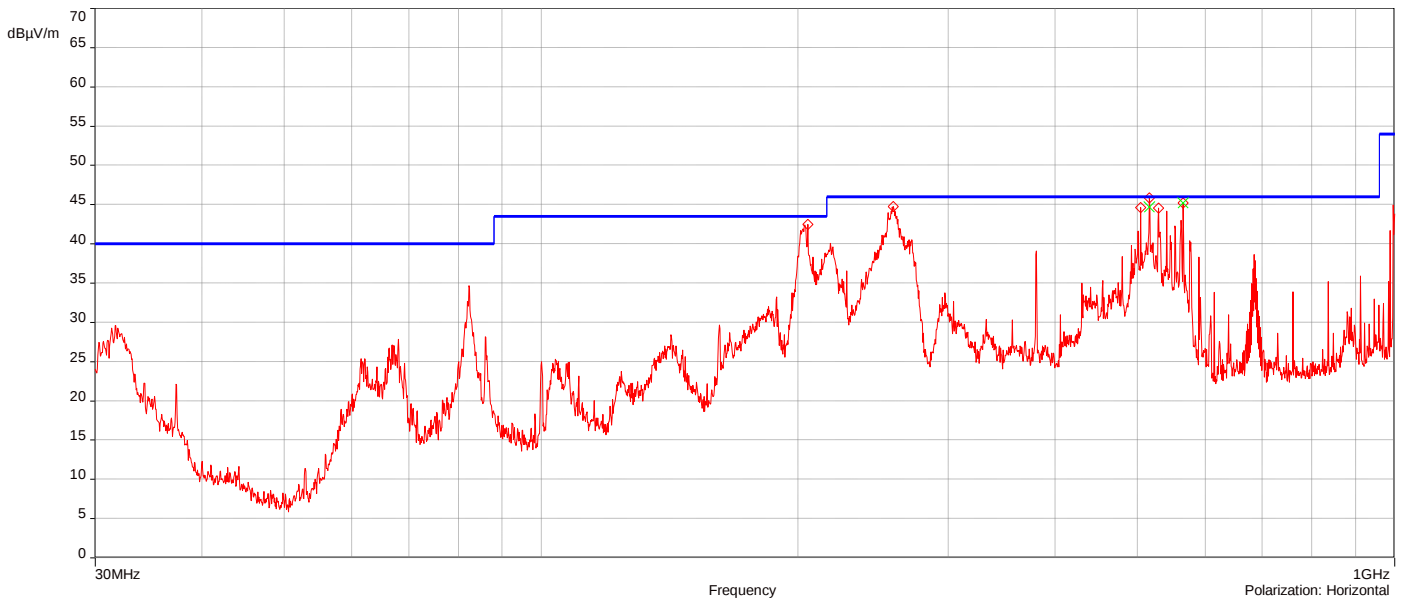


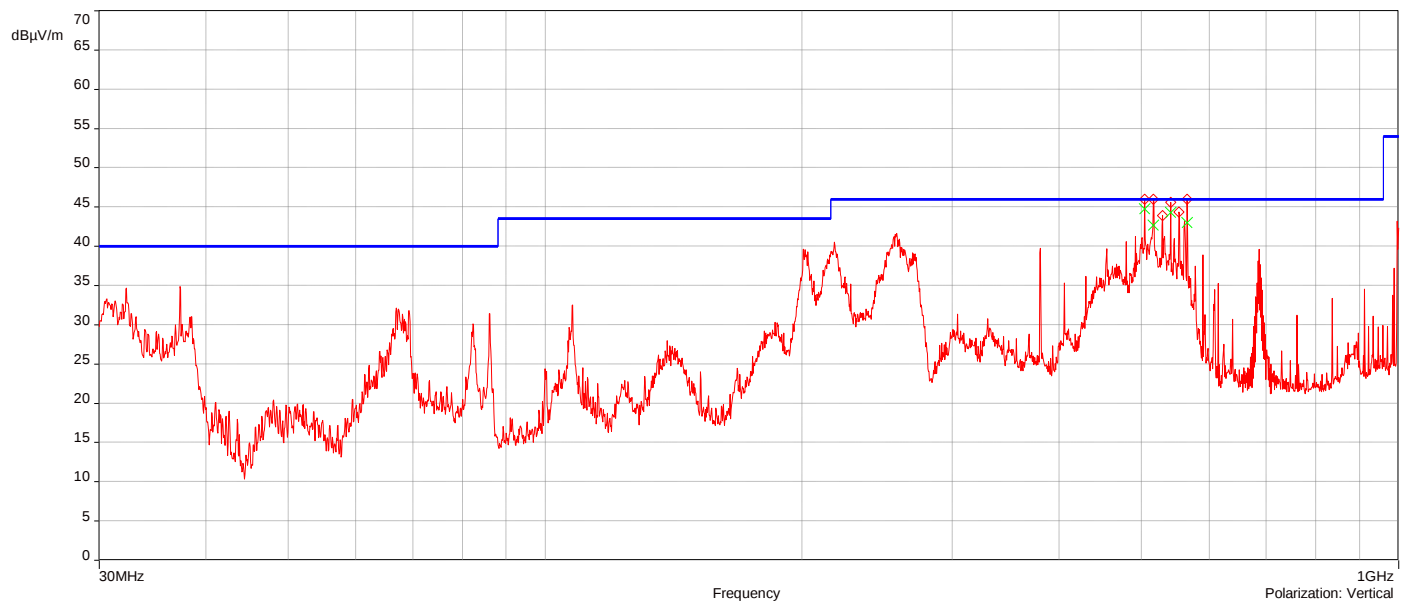
J23133_2.4G_802.11n_MCS0_Ch 6_30MHz-1GHz

8/1/2024 4:10:15 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	503.84434MHz	44.73	-7.09	46.00	-1.27	1.00	21.10	Vertical	Passed
2.	516.11271MHz	42.69	-6.92	46.00	-3.31	1.00	49.10	Vertical	Passed
3.	540.70651MHz	44.28	-6.74	46.00	-1.72	1.00	346.90	Vertical	Passed
4.	565.30031MHz	43.02	-6.24	46.00	-2.98	1.00	321.90	Vertical	Passed
5.	516.11271MHz	44.67	-6.12	46.00	-1.33	1.50	324.90	Horizontal	Passed
6.	565.24325MHz	45.19	-5.24	46.00	-0.81	1.50	346.90	Horizontal	Passed

Overall Graphs:





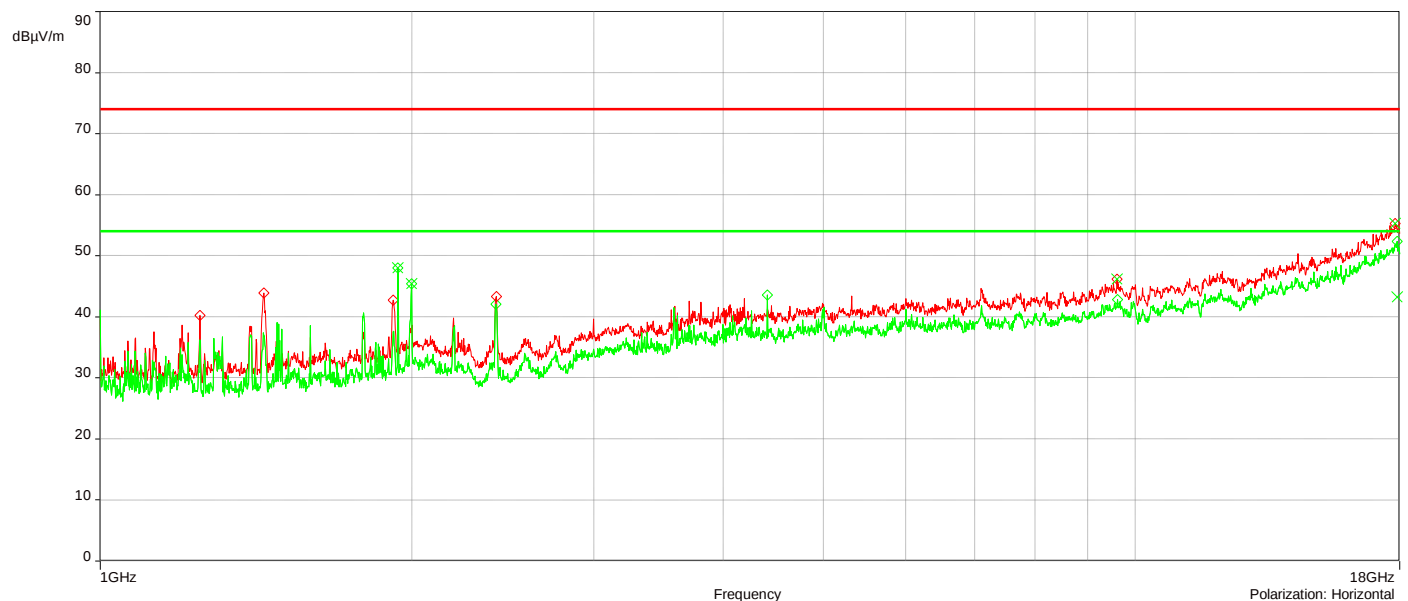
J23133_2.4G_802.11b_1Mbps_Ch 1_1-18GHz

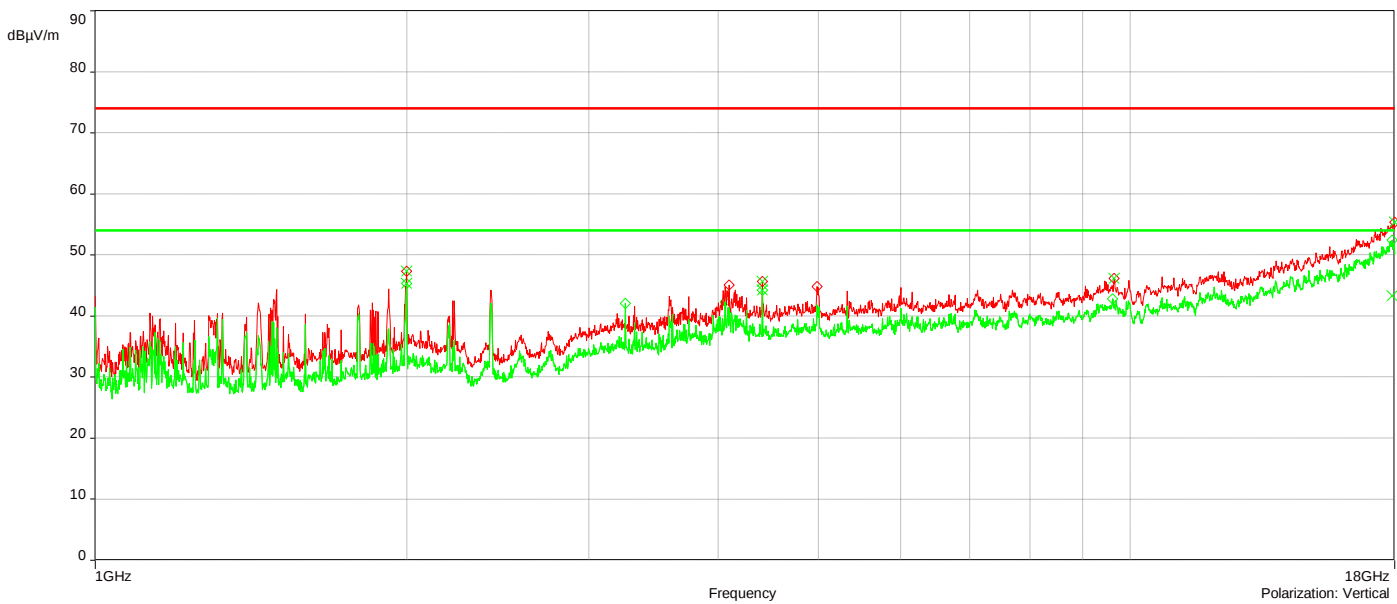
7/30/2024 10:06:32 AM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	1.9995294GHz	47.31	-2.20	74.00	-26.69	1.00	63.10	Vertical	Passed
2.	4.4096003GHz	45.67	4.42	74.00	-28.33	3.50	312.20	Vertical	Passed
3.	9.6397541GHz	46.20	10.53	74.00	-27.80	3.50	98.00	Vertical	Passed
4.	17.994GHz	55.40	21.96	74.00	-18.60	1.00	278.00	Vertical	Passed
5.	9.5942528GHz	46.16	10.08	74.00	-27.84	3.00	254.90	Horizontal	Passed
6.	17.824995GHz	55.28	20.94	74.00	-18.72	4.00	312.90	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	1.9985294GHz	45.37	-2.21	54.00	-8.63	1.00	63.10	Vertical	Passed
2.	4.4096003GHz	44.30	4.42	54.00	-9.70	3.50	312.20	Vertical	Passed
3.	17.900997GHz	43.32	21.27	54.00	-10.68	4.00	254.10	Vertical	Passed
4.	1.9390276GHz	48.05	-2.89	54.00	-5.95	4.00	0.0	Horizontal	Passed
5.	1.9985294GHz	45.42	-2.16	54.00	-8.58	1.00	0.10	Horizontal	Passed
6.	17.900997GHz	43.27	21.19	54.00	-10.73	4.00	0.10	Horizontal	Passed

Overall Graphs:





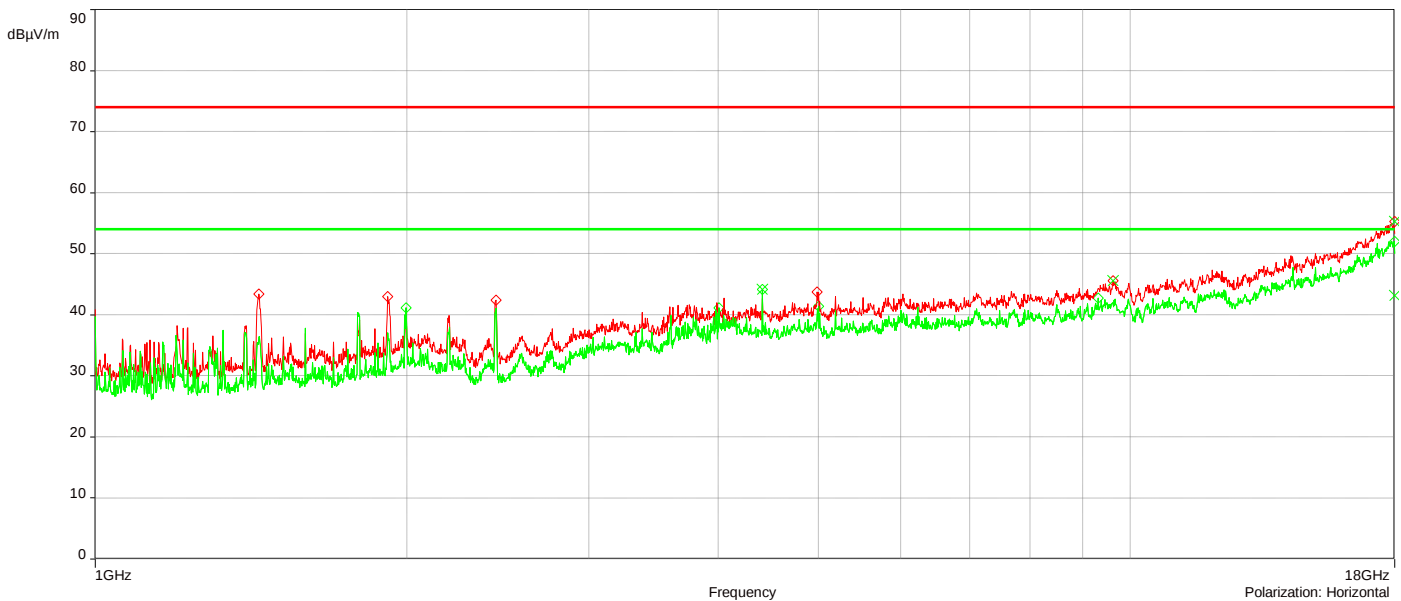
J23133_2.4G_802.11b_1Mbps_Ch 6_1-18GHz

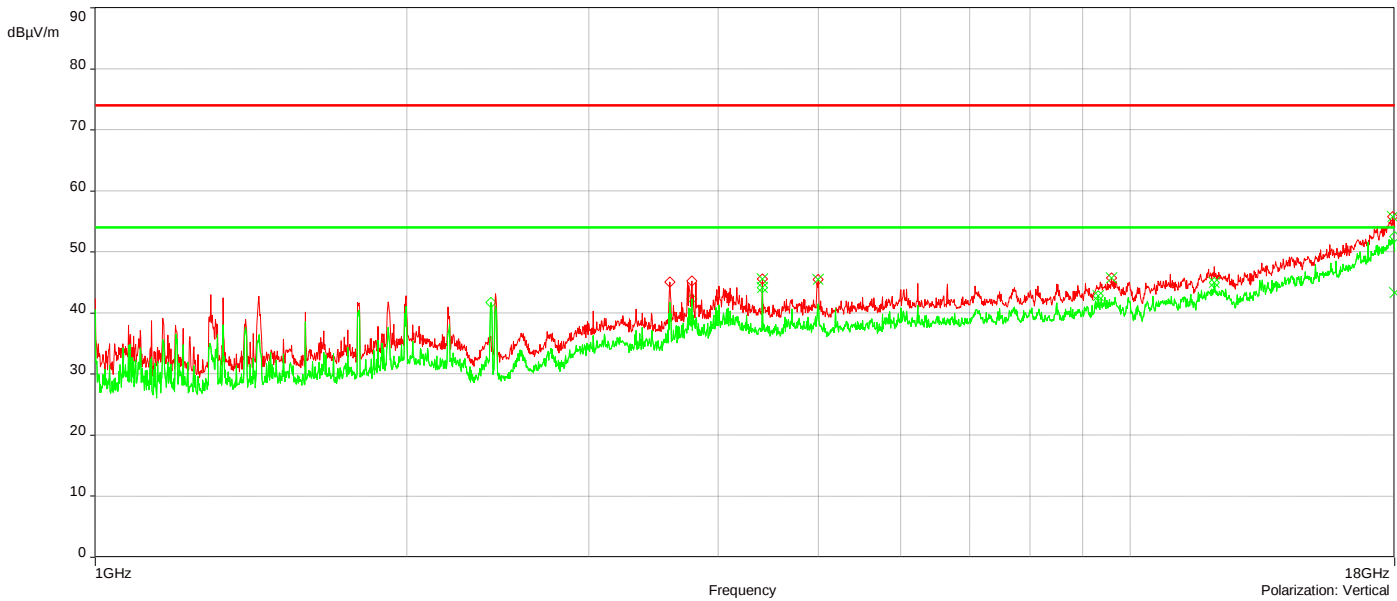
7/30/2024 10:20:35 AM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	4.4096003GHz	45.60	4.42	74.00	-28.40	3.00	359.90	Vertical	Passed
2.	4.9931174GHz	45.51	5.67	74.00	-28.49	3.50	126.80	Vertical	Passed
3.	9.5912527GHz	45.78	10.08	74.00	-28.22	3.50	108.10	Vertical	Passed
4.	17.922998GHz	55.76	21.21	74.00	-18.24	4.00	359.90	Vertical	Passed
5.	9.6242537GHz	45.58	10.40	74.00	-28.42	1.00	226.10	Horizontal	Passed
6.	17.9965GHz	55.32	21.96	74.00	-18.68	4.00	31.30	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	4.4096003GHz	44.17	4.42	54.00	-9.83	3.00	359.90	Vertical	Passed
2.	9.3117445GHz	42.80	9.57	54.00	-11.20	2.50	359.90	Vertical	Passed
3.	12.044825GHz	45.01	12.20	54.00	-8.99	3.50	199.40	Vertical	Passed
4.	17.9975GHz	43.33	22.04	54.00	-10.67	1.00	0.10	Vertical	Passed
5.	4.4096003GHz	44.18	4.43	54.00	-9.82	3.00	359.90	Horizontal	Passed
6.	17.994GHz	43.17	21.90	54.00	-10.83	1.00	78.90	Horizontal	Passed

Overall Graphs:





J23133_2.4G_802.11b_1Mbps_Ch 11_1-18GHz

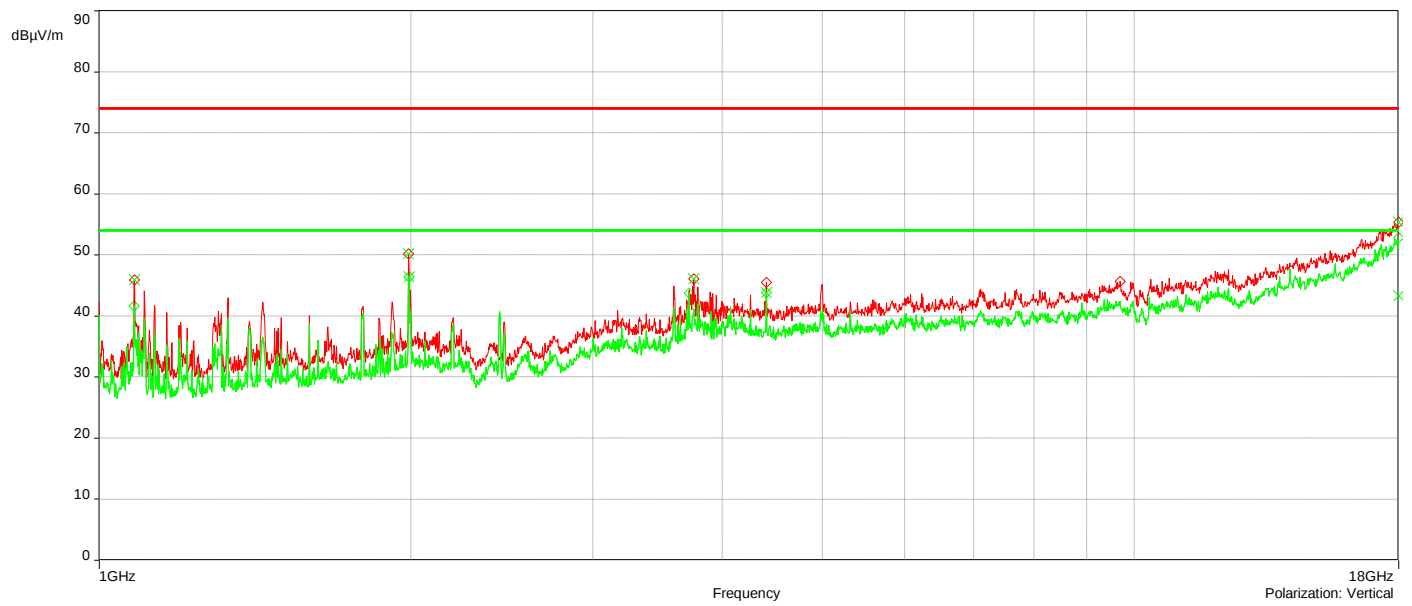
7/30/2024 10:37:02 AM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	1.0815024GHz	45.96	-7.40	74.00	-28.04	1.50	227.20	Vertical	Passed
2.	1.9905291GHz	50.17	-2.30	74.00	-23.83	2.00	95.30	Vertical	Passed
3.	3.7505809GHz	46.08	2.81	74.00	-27.92	1.00	88.80	Vertical	Passed
4.	17.992GHz	55.39	21.91	74.00	-18.61	2.50	206.80	Vertical	Passed
5.	9.5932527GHz	46.14	10.07	74.00	-27.86	4.00	3.90	Horizontal	Passed
6.	17.745493GHz	55.15	20.52	74.00	-18.85	1.00	352.70	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	1.9910291GHz	46.42	-2.29	54.00	-7.58	2.00	95.30	Vertical	Passed
2.	4.4096003GHz	43.87	4.42	54.00	-10.13	1.00	42.60	Vertical	Passed
3.	17.9975GHz	43.33	22.04	54.00	-10.67	1.00	0.00	Vertical	Passed
4.	1.9910291GHz	46.45	-2.27	54.00	-7.55	2.00	0.00	Horizontal	Passed
5.	4.4096003GHz	43.88	4.43	54.00	-10.12	1.00	359.90	Horizontal	Passed
6.	17.870496GHz	43.12	21.13	54.00	-10.88	2.50	0.00	Horizontal	Passed

Overall Graphs:





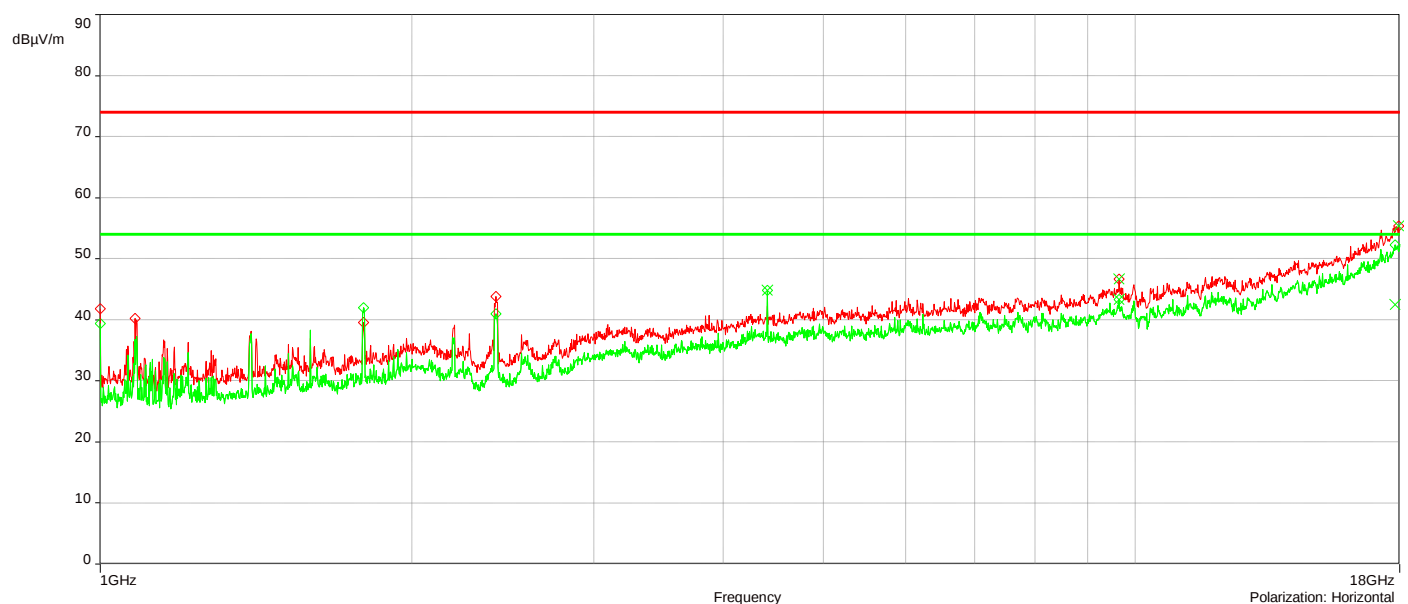
J23133_2.4G_802.11n_MCS0_Ch 1_1-18GHz

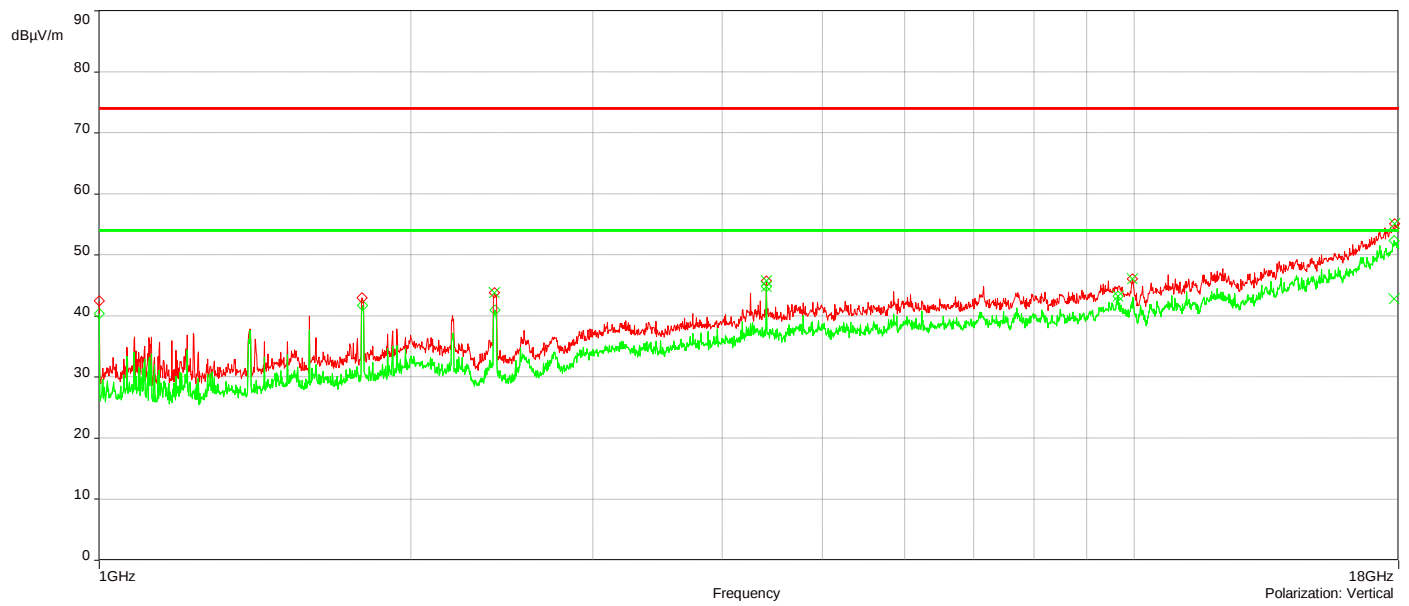
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.4085414GHz	43.81	-1.37	74.00	-30.19	1.00	62.00	Vertical	Passed
2.	4.4096003GHz	45.74	4.42	74.00	-28.26	3.00	51.90	Vertical	Passed
3.	9.9542634GHz	46.13	10.82	74.00	-27.87	3.00	258.30	Vertical	Passed
4.	17.837995GHz	55.09	21.14	74.00	-18.91	2.50	241.50	Vertical	Passed
5.	9.6387541GHz	46.65	10.55	74.00	-27.35	1.50	181.50	Horizontal	Passed
6.	17.959499GHz	55.40	21.22	74.00	-18.60	2.00	271.70	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	4.4096003GHz	44.86	4.42	54.00	-9.14	3.00	51.90	Vertical	Passed
2.	9.6387541GHz	43.29	10.53	54.00	-10.71	1.50	359.90	Vertical	Passed
3.	17.807994GHz	42.86	20.96	54.00	-11.14	3.50	359.90	Vertical	Passed
4.	4.4096003GHz	44.86	4.43	54.00	-9.14	3.00	359.90	Horizontal	Passed
5.	9.6387541GHz	43.32	10.55	54.00	-10.68	1.50	181.50	Horizontal	Passed
6.	17.807994GHz	42.49	20.84	54.00	-11.51	3.50	193.10	Horizontal	Passed

Overall Graphs:





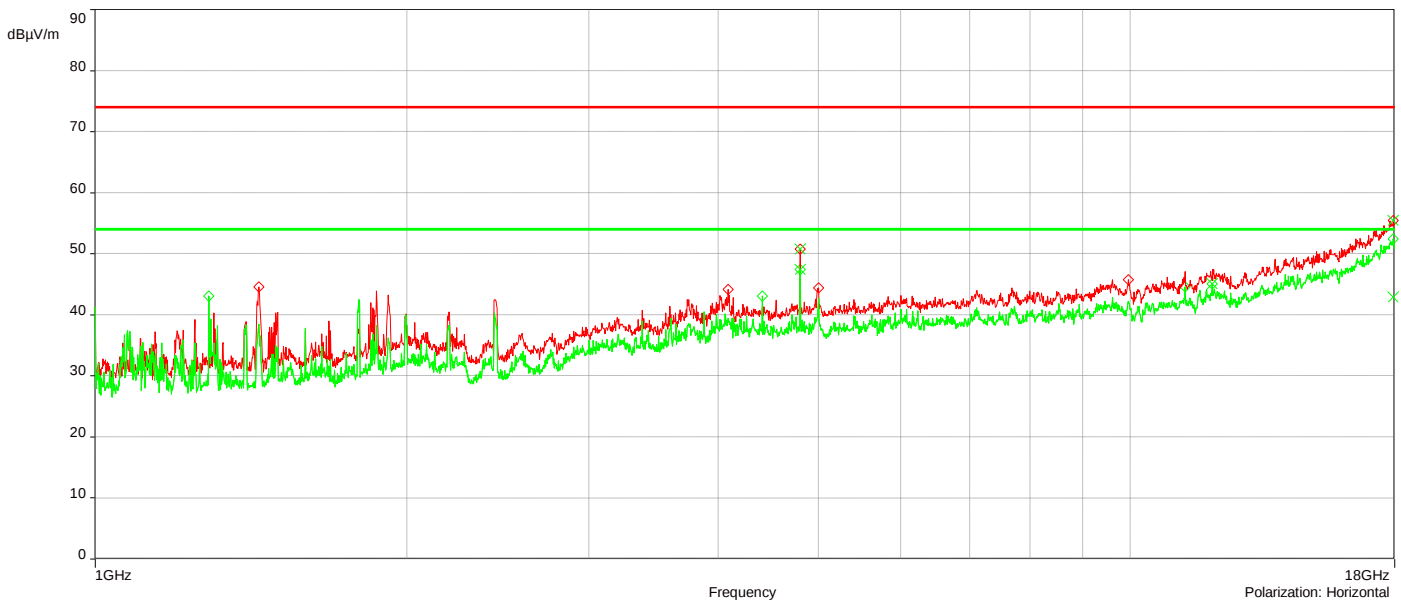
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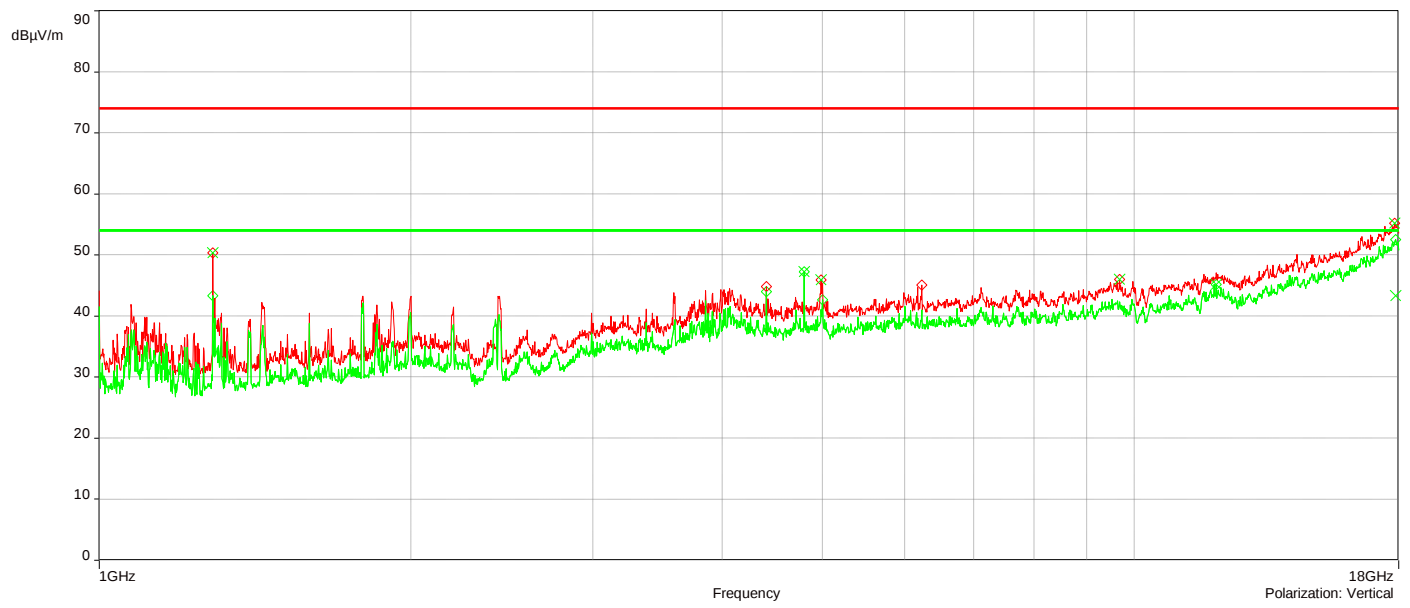
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	1.2875085GHz	50.38	-7.33	74.00	-23.62	2.00	87.50	Vertical	Passed
2.	4.9811171GHz	45.93	5.71	74.00	-28.07	1.00	66.20	Vertical	Passed
3.	9.6782552GHz	46.04	10.77	74.00	-27.96	3.50	30.10	Vertical	Passed
4.	17.841495GHz	55.21	21.16	74.00	-18.79	2.00	50.80	Vertical	Passed
5.	4.7976117GHz	50.77	4.93	74.00	-23.23	2.50	1.90	Horizontal	Passed
6.	17.931498GHz	55.48	21.10	74.00	-18.52	2.00	178.60	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	4.7976117GHz	47.30	4.84	54.00	-6.70	2.50	0.0	Vertical	Passed
2.	12.000324GHz	45.18	12.05	54.00	-8.82	2.00	105.30	Vertical	Passed
3.	17.873996GHz	43.30	21.24	54.00	-10.70	1.00	359.90	Vertical	Passed
4.	4.7976117GHz	47.39	4.93	54.00	-6.61	2.50	1.90	Horizontal	Passed
5.	12.000324GHz	45.12	12.00	54.00	-8.88	2.00	0.10	Horizontal	Passed
6.	17.931498GHz	42.94	21.10	54.00	-11.06	2.00	178.60	Horizontal	Passed

Overall Graphs:





J23133_2.4G_802.11n_MCS0_Ch 11_1-18GHz

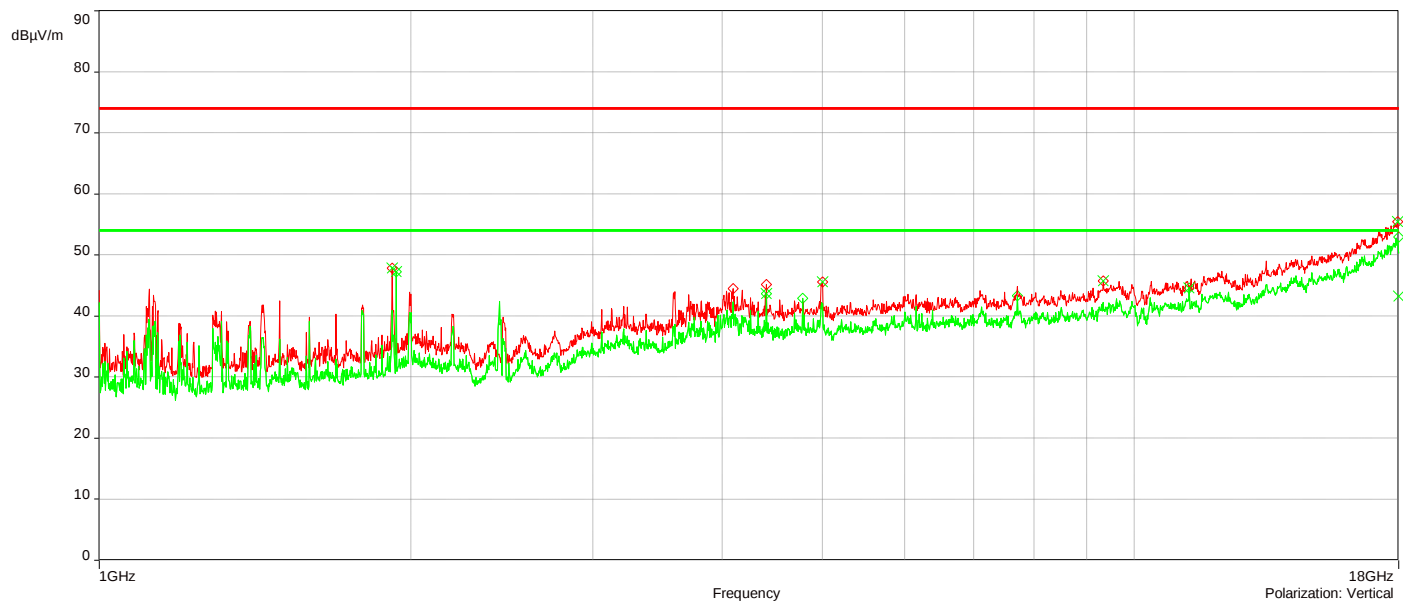
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	1.918527GHz	47.86	-2.96	74.00	-26.14	1.50	264.20	Vertical	Passed
2.	4.9996176GHz	45.60	5.65	74.00	-28.40	1.00	77.50	Vertical	Passed
3.	9.3337451GHz	45.79	9.56	74.00	-28.21	1.50	111.30	Vertical	Passed
4.	17.950999GHz	55.43	21.16	74.00	-18.57	2.50	200.60	Vertical	Passed
5.	15.794435GHz	51.93	16.20	74.00	-22.07	3.50	330.60	Horizontal	Passed
6.	17.816495GHz	55.41	20.89	74.00	-18.59	3.50	303.60	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	1.9365275GHz	47.23	-2.89	54.00	-6.77	1.00	0.0	Vertical	Passed
2.	4.4096003GHz	43.70	4.42	54.00	-10.30	3.50	292.20	Vertical	Passed
3.	11.299803GHz	44.61	11.80	54.00	-9.39	1.00	0.0	Vertical	Passed
4.	17.9975GHz	43.29	22.04	54.00	-10.71	1.00	0.10	Vertical	Passed
5.	11.241301GHz	43.92	11.57	54.00	-10.08	1.00	41.90	Horizontal	Passed
6.	17.898497GHz	43.19	21.19	54.00	-10.81	3.50	56.90	Horizontal	Passed

Overall Graphs:





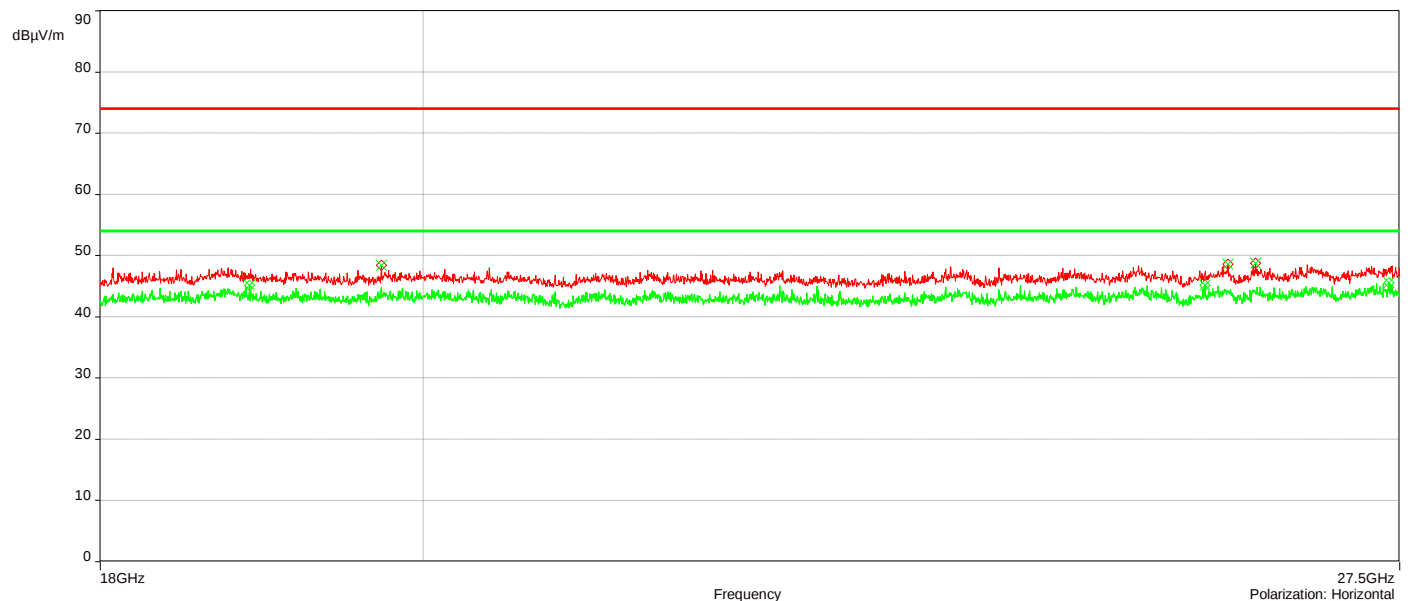
J23133_2.4G_802.11b_1Mbps_Ch 6_18-27.5GHz

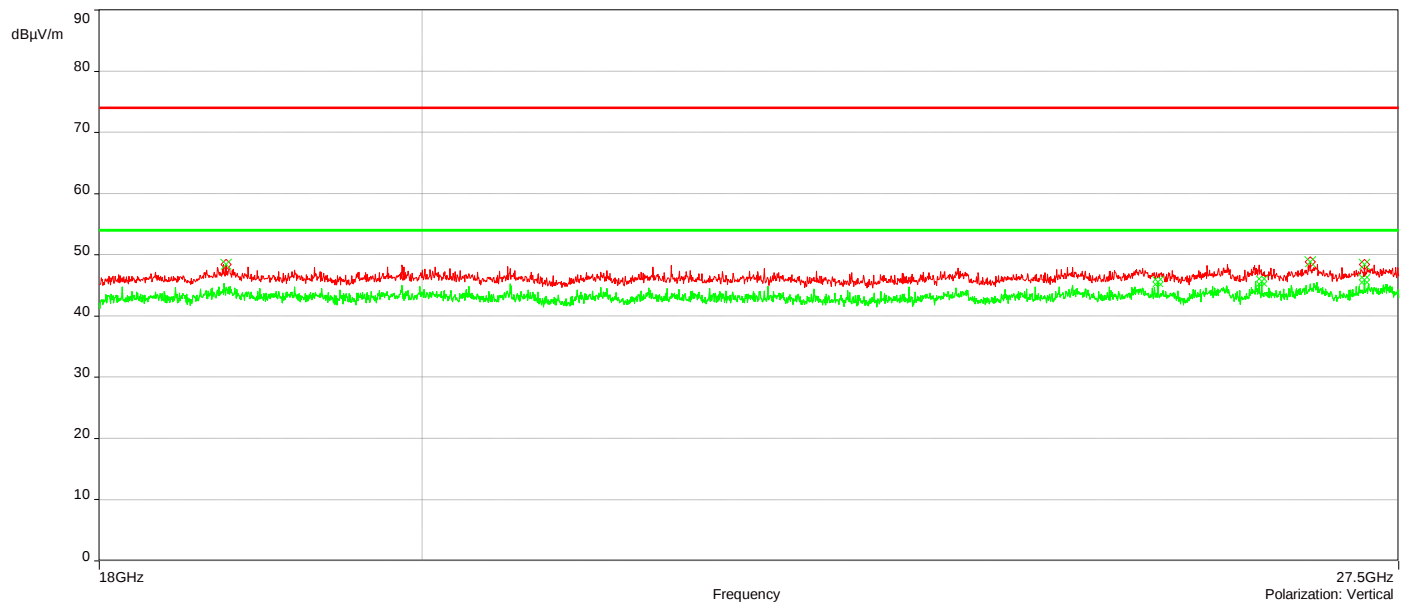
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	18.759088GHz	48.47	-0.93	74.00	-25.53	2.26	0.10	Vertical	Passed
2.	26.719061GHz	48.82	1.45	74.00	-25.18	2.35	337.40	Vertical	Passed
3.	27.19361GHz	48.41	1.01	74.00	-25.59	1.94	180.20	Vertical	Passed
4.	19.727186GHz	48.42	-1.83	74.00	-25.58	3.45	112.50	Horizontal	Passed
5.	26.0013GHz	48.56	1.47	74.00	-25.44	1.41	135.20	Horizontal	Passed
6.	26.238812GHz	48.74	1.05	74.00	-25.26	1.99	157.50	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	25.423196GHz	45.59	1.01	54.00	-8.41	1.18	135.20	Vertical	Passed
2.	26.296765GHz	45.69	0.94	54.00	-8.31	1.81	180.20	Vertical	Passed
3.	27.19361GHz	45.91	1.01	54.00	-8.09	1.94	180.20	Vertical	Passed
4.	18.89922GHz	45.20	-1.33	54.00	-8.80	1.79	315.10	Horizontal	Passed
5.	25.80844GHz	45.21	0.92	54.00	-8.79	1.03	180.20	Horizontal	Passed
6.	27.40357GHz	45.63	1.77	54.00	-8.37	3.31	67.50	Horizontal	Passed

Overall Graphs:





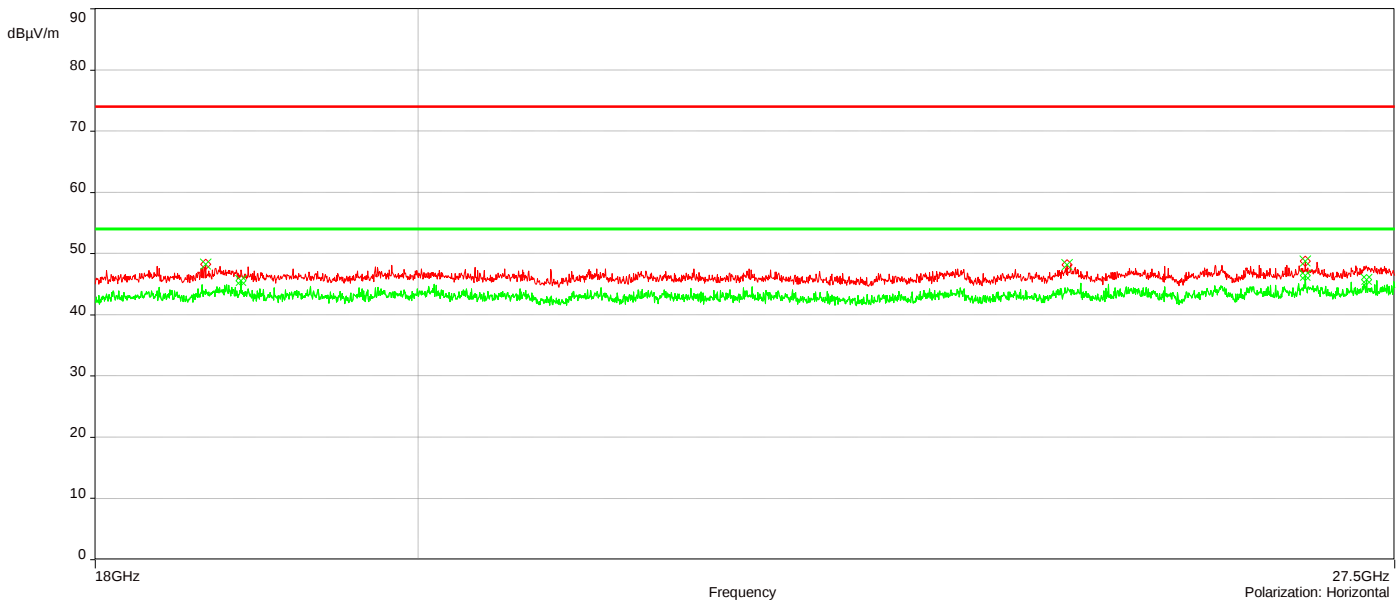
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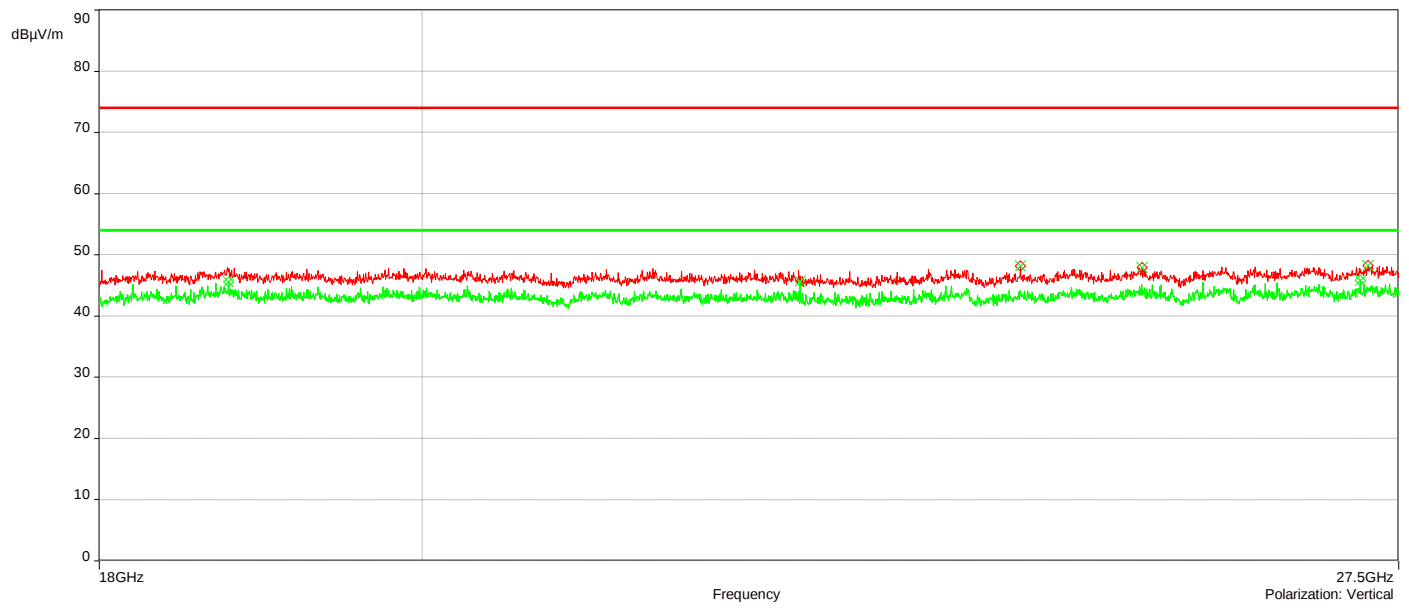
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	24.309265GHz	48.17	1.07	74.00	-25.83	1.42	247.40	Vertical	Passed
2.	25.29304GHz	47.96	0.92	74.00	-26.04	4.00	134.90	Vertical	Passed
3.	27.227811GHz	48.29	1.20	74.00	-25.71	3.04	247.40	Vertical	Passed
4.	18.661708GHz	48.23	-0.79	74.00	-25.77	3.53	337.40	Horizontal	Passed
5.	24.712086GHz	48.20	1.20	74.00	-25.80	2.33	67.40	Horizontal	Passed
6.	26.711461GHz	48.78	1.38	74.00	-25.22	2.06	22.40	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	18.774764GHz	45.59	-1.05	54.00	-8.41	2.58	179.90	Vertical	Passed
2.	22.622931GHz	45.68	1.02	54.00	-8.32	1.71	0.10	Vertical	Passed
3.	27.157983GHz	45.82	1.16	54.00	-8.18	2.85	89.90	Vertical	Passed
4.	18.874994GHz	45.63	-1.52	54.00	-8.37	3.31	179.90	Horizontal	Passed
5.	26.711461GHz	46.44	1.38	54.00	-7.56	2.06	22.40	Horizontal	Passed
6.	27.247762GHz	45.72	1.39	54.00	-8.28	3.93	67.40	Horizontal	Passed

Overall Graphs:





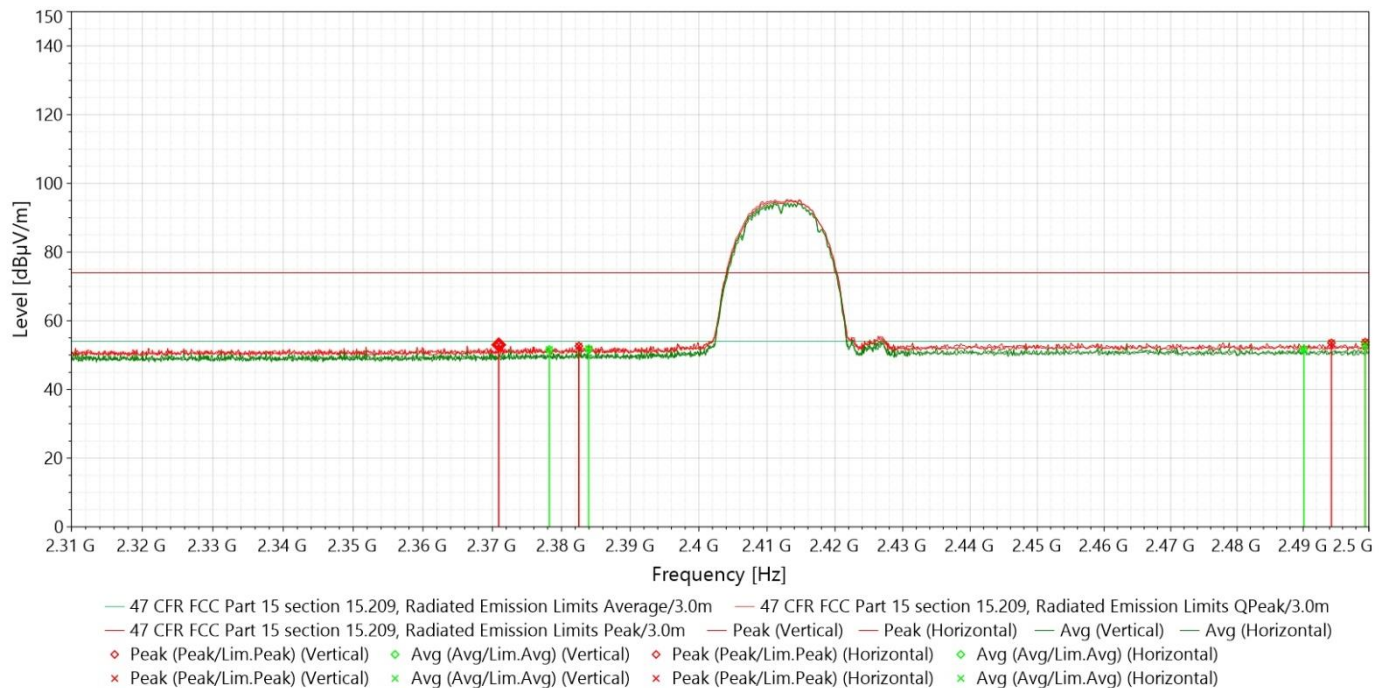
J23133_2.4G_Restricted Bandedge_802.11b_1Mbps_Ch 1

7/29/2024 5:19:42 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.3709255GHz	53.01	-2.40	74.00	-20.99	4.00	358.90	Vertical	Passed
2.	2.4994297GHz	53.78	-1.84	74.00	-20.22	2.50	146.70	Vertical	Passed
3.	2.3825213GHz	52.65	-2.45	74.00	-21.35	2.00	88.60	Horizontal	Passed
4.	2.4942971GHz	53.56	-1.82	74.00	-20.44	2.50	0.10	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.383947GHz	51.86	-2.32	54.00	-2.14	1.00	131.20	Vertical	Passed
2.	2.4994297GHz	52.96	-1.84	54.00	-1.04	2.50	146.70	Vertical	Passed
3.	2.3782441GHz	51.62	-2.49	54.00	-2.38	4.00	253.60	Horizontal	Passed
4.	2.4901151GHz	51.82	-1.81	54.00	-2.18	1.00	0.10	Horizontal	Passed

Overall Graphs:



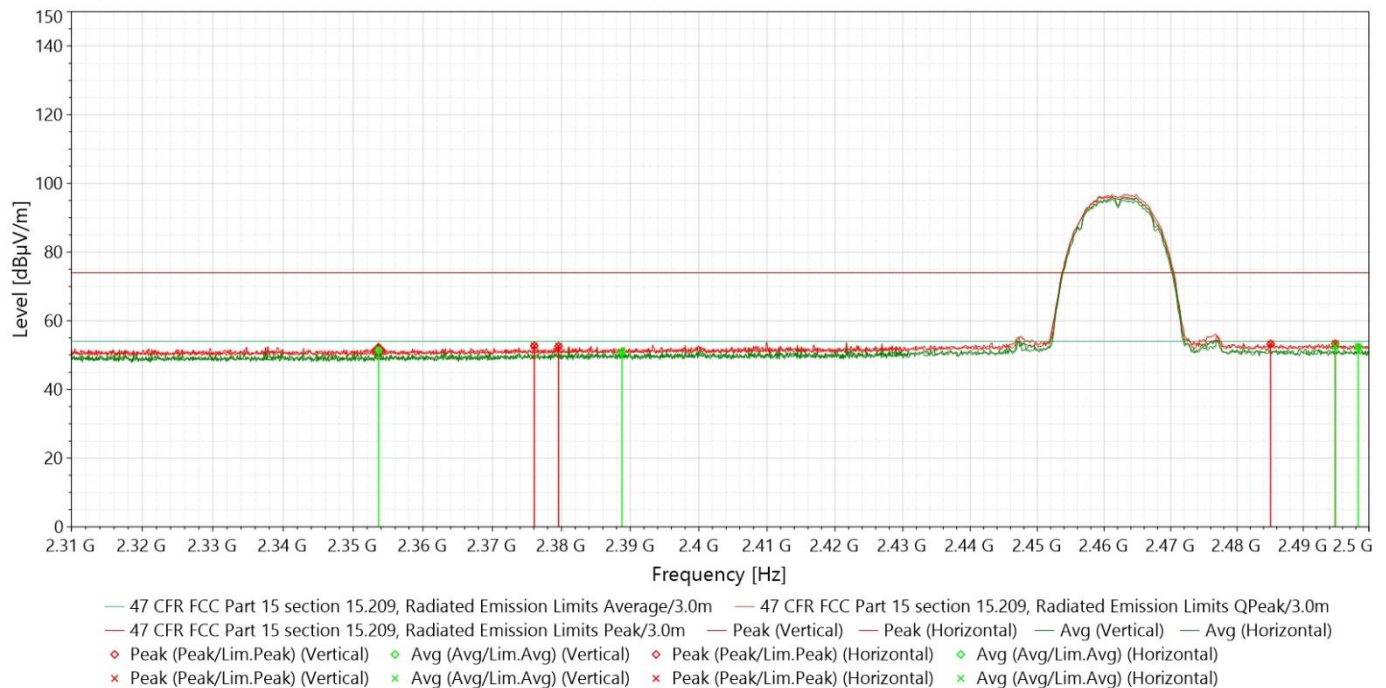
J23133_2.4G_Restricted Bandedge_802.11b_1Mbps_Ch 11

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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.376058GHz	52.72	-2.35	74.00	-21.28	4.00	282.70	Vertical	Passed
2.	2.4948674GHz	53.34	-1.84	74.00	-20.66	2.50	57.10	Vertical	Passed
3.	2.3795748GHz	52.60	-2.48	74.00	-21.40	2.00	124.40	Horizontal	Passed
4.	2.4850775GHz	53.27	-1.80	74.00	-20.73	1.50	25.20	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.3536268GHz	51.42	-2.59	54.00	-2.58	2.00	254.40	Vertical	Passed
2.	2.4948674GHz	52.58	-1.84	54.00	-1.42	2.50	57.10	Vertical	Passed
3.	2.3887944GHz	50.97	-2.38	54.00	-3.03	4.00	357.30	Horizontal	Passed
4.	2.4983842GHz	52.41	-1.82	54.00	-1.59	3.00	104.40	Horizontal	Passed

Overall Graphs:



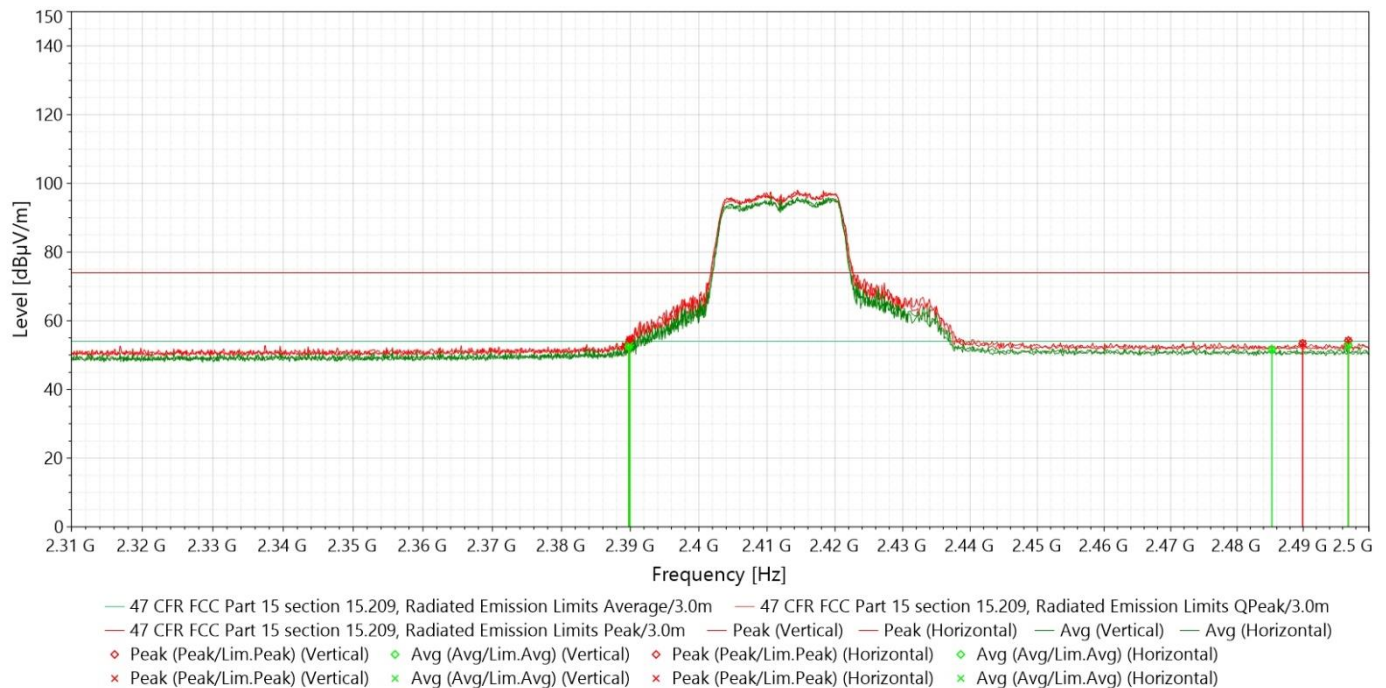
J23133_2.4G_Restricted Bandedge_802.11n_MCS0_Ch 1

7/29/2024 5:50:24 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.389935GHz	54.08	-2.31	74.00	-19.92	1.00	209.90	Vertical	Passed
2.	2.4968634GHz	54.25	-1.85	74.00	-19.75	2.50	9.00	Vertical	Passed
3.	2.389935GHz	54.55	-2.37	74.00	-19.45	3.00	65.40	Horizontal	Passed
4.	2.489925GHz	53.43	-1.81	74.00	-20.57	2.50	169.90	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.3897449GHz	52.48	-2.31	54.00	-1.52	1.00	217.90	Vertical	Passed
2.	2.4968634GHz	52.88	-1.85	54.00	-1.12	2.50	9.00	Vertical	Passed
3.	2.389935GHz	52.89	-2.37	54.00	-1.11	3.00	65.40	Horizontal	Passed
4.	2.4852676GHz	51.74	-1.80	54.00	-2.26	4.00	335.00	Horizontal	Passed

Overall Graphs:



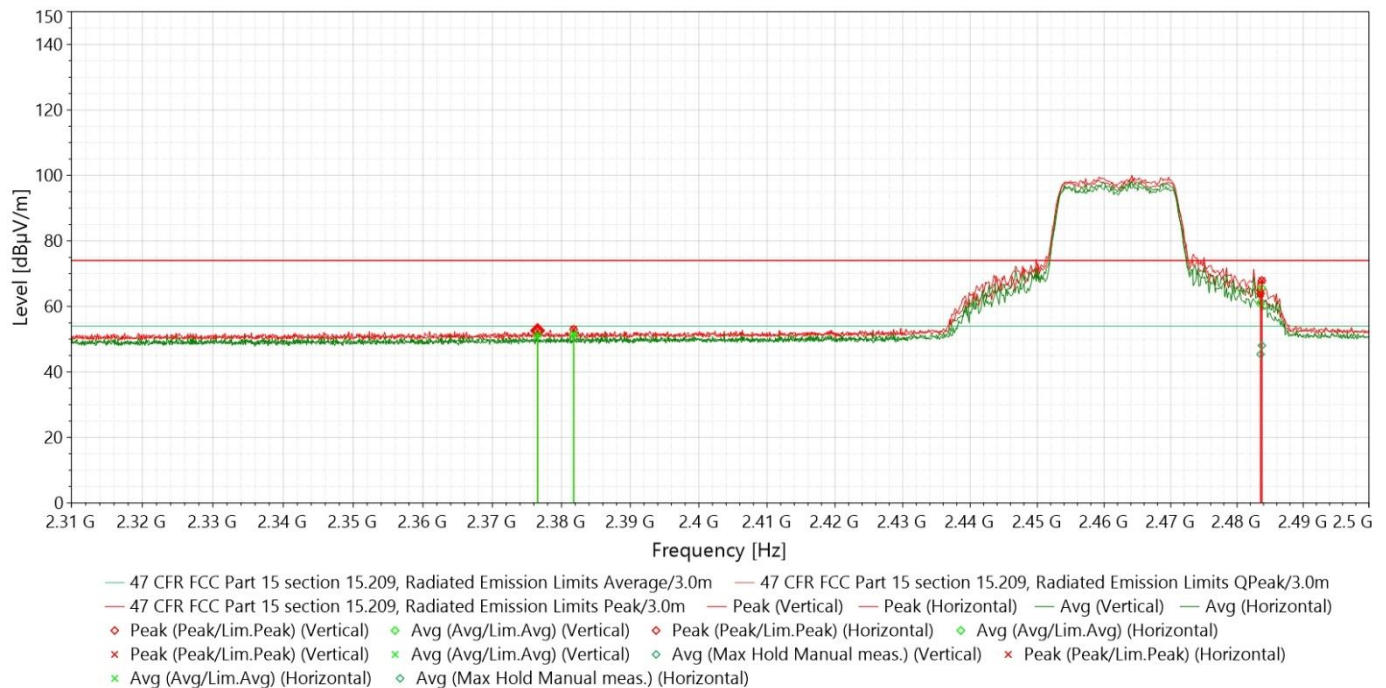
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7/30/2024 10:02:46 AM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.3765333GHz	52.62	-2.34	74.00	-21.38	3.00	96.80	Vertical	Passed
2.	2.4835568GHz	63.89	-1.87	74.00	-10.11	3.50	325.10	Vertical	Passed
3.	2.3817609GHz	53.01	-2.46	74.00	-20.99	2.00	167.00	Horizontal	Passed
4.	2.4837469GHz	67.91	-1.79	74.00	-6.09	1.00	353.10	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.3765333GHz	51.40	-2.34	54.0074.00	-2.60	3.00	96.80	Vertical	Passed
2.	2.4835568GHz	45.40	-1.87	54.0074.00	-8.60	3.50	325.10	Vertical	Passed
3.	2.3817609GHz	51.64	-2.46	54.0074.00	-2.36	2.00	167.00	Horizontal	Passed
4.	2.4837469GHz	48.06	-1.79	54.0074.00	-5.94	1.00	353.10	Horizontal	Passed

Overall Graphs:



Document Revisions

Version	Date	Modifier	Changes
1.0	10/25/2024	Aravind Buddana	Initial Release
2.0	01/17/2025	Aravind Buddana	- Updated Section 1 and Section 4.1 with RSS 247 Issue version. - Updated Section 1 with EUT FVIN Information - Updated Section 4.1 with DUT/EUT Operation Information. - Updated Section 4.4.3 Ansi Reference.

End of Report