



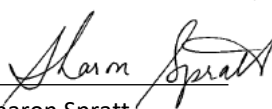
Regulatory Test Report

Prepared for Harman International Industries, Inc.

This report presents detailed information on

R1 INT NA 2B HW4

Prepared by


Sharon Spratt

Engineer II

Approved by


Jason Kanakry

General Manager

Issue date: 3/19/2025

Report No: J24179-R1 INT NA 2B HW4-TR1 v2

This test result relates only to the described test object.

This document shall not be reproduced, except in full, without the written approval of Bureau Veritas Test Lab.

Customer must not use this test report as the product certification of each accreditation body or each national organization.

The test is traceable to national standard or related international standard

Contents

1. Test Request Information3

2. Test Laboratory Information.....4

3. Statement of Conformity.....5

4. Conducted Testing6

5. Radiated Testing32

1. Test Request Information

Test Request #:	7700206788
Test Requested By:	Pranav Patel Harman International Industries, Inc. 30001 Cabot Drive, Novi, MI 48377
Test item Description:	R1 INT NA 2B HW4
Part Number:	P68581660ZZ
DUT Sample Number:	J24179#1
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-BE2881
ISED ID:	6434C-BE2881
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:	12/03/2024
Date Test Finished:	12/19/2024

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 2B 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.
- Worst-case modulations 802.11g and 802.11n are selected for full testing.

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

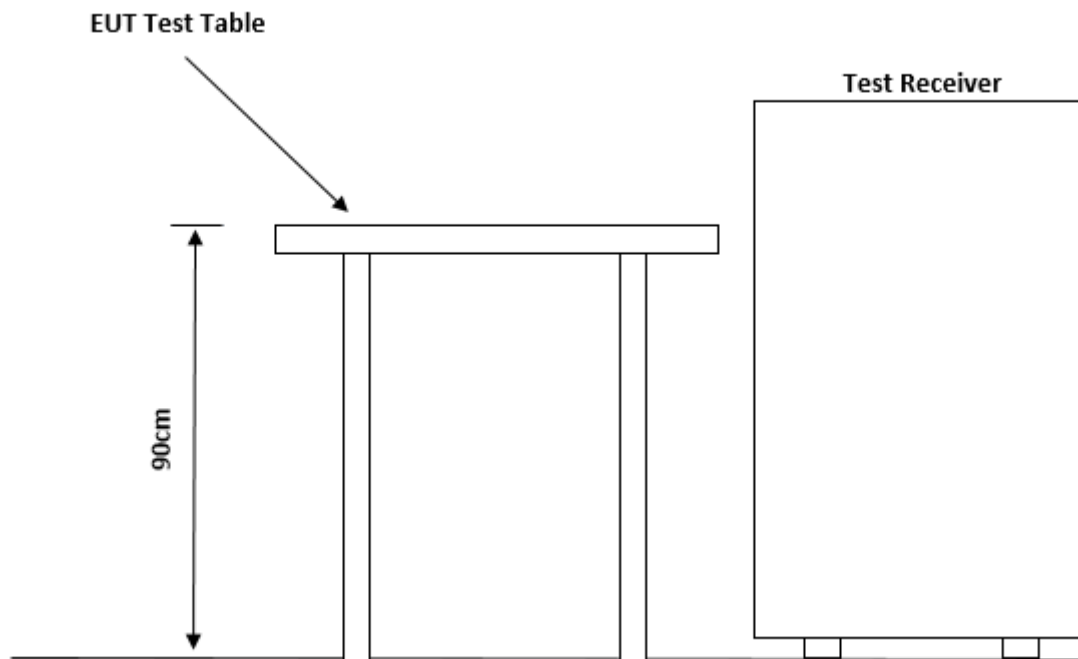
We found that the product met the requirements. Test samples received in good condition and remains good and functional post testing.

Test Item	Sample #	Result
FCC 15.247 2.4G WLAN	J24179#1	Meets Requirements

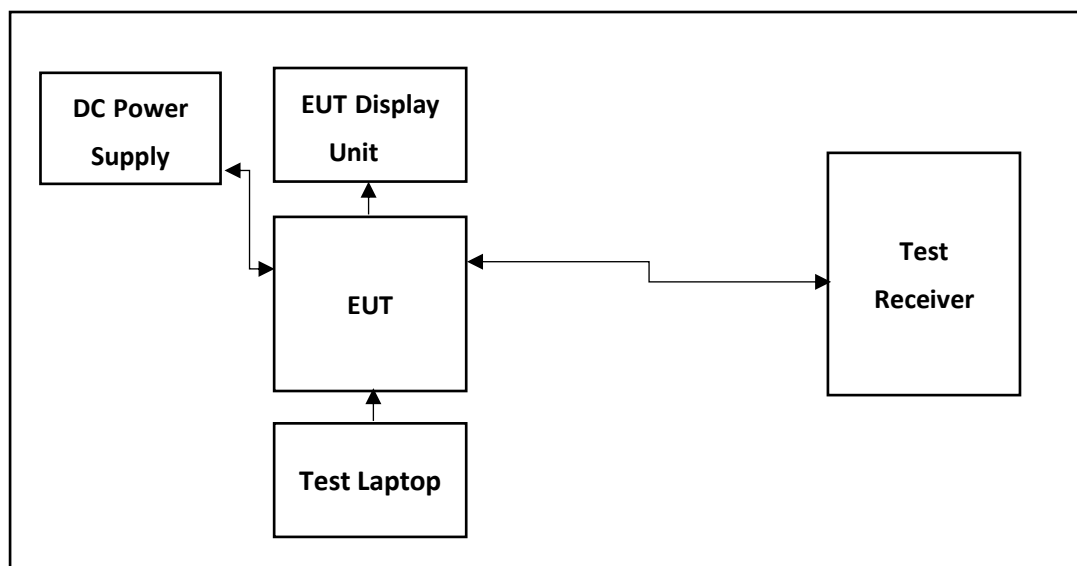
4.2 Test Setup

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	11/07/2025
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.
- All the conducted testing completed by 12/06/2025.

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	6.6	6.8	4.9	30	99.888	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	7.0	7.3	5.6	30	98.879	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	6.2	6.4	5.3	30	98.796	7

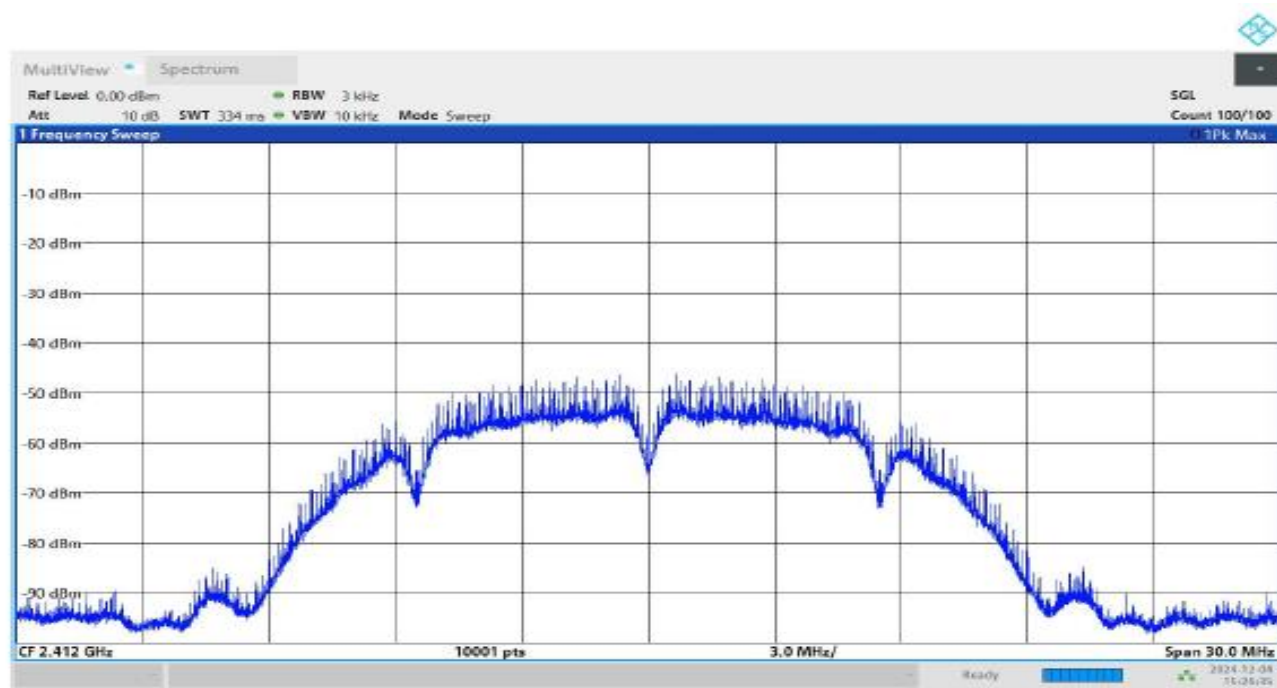
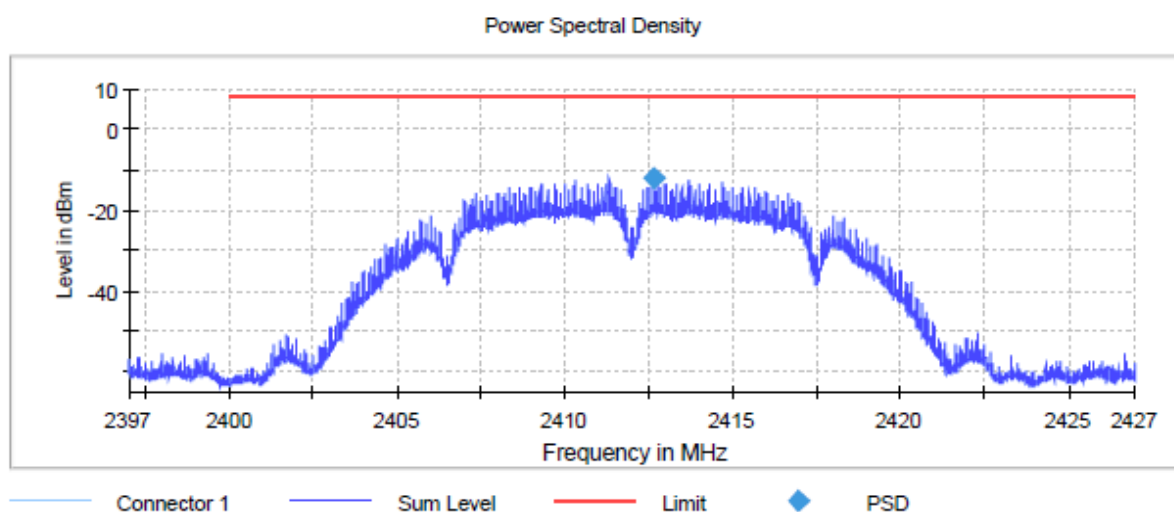
4.4.2 Power Spectral Density

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	-12.070	-11.806	-13.531	8.0

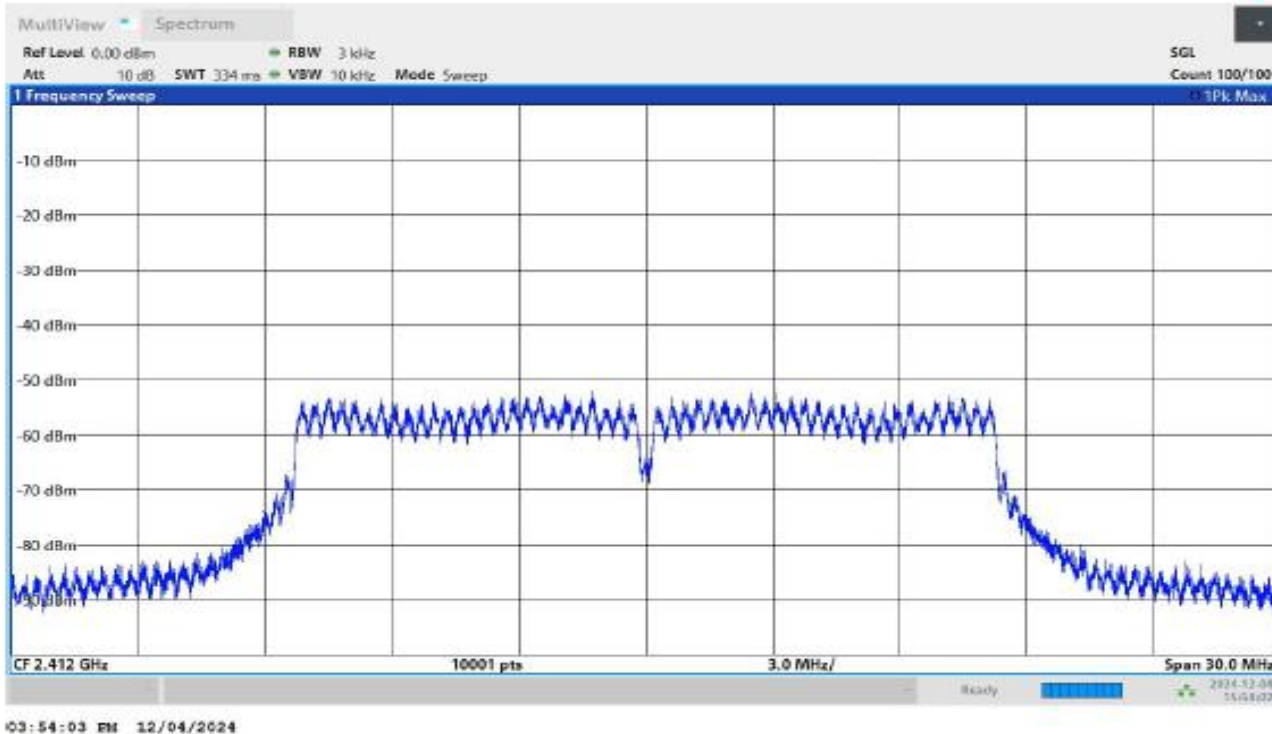
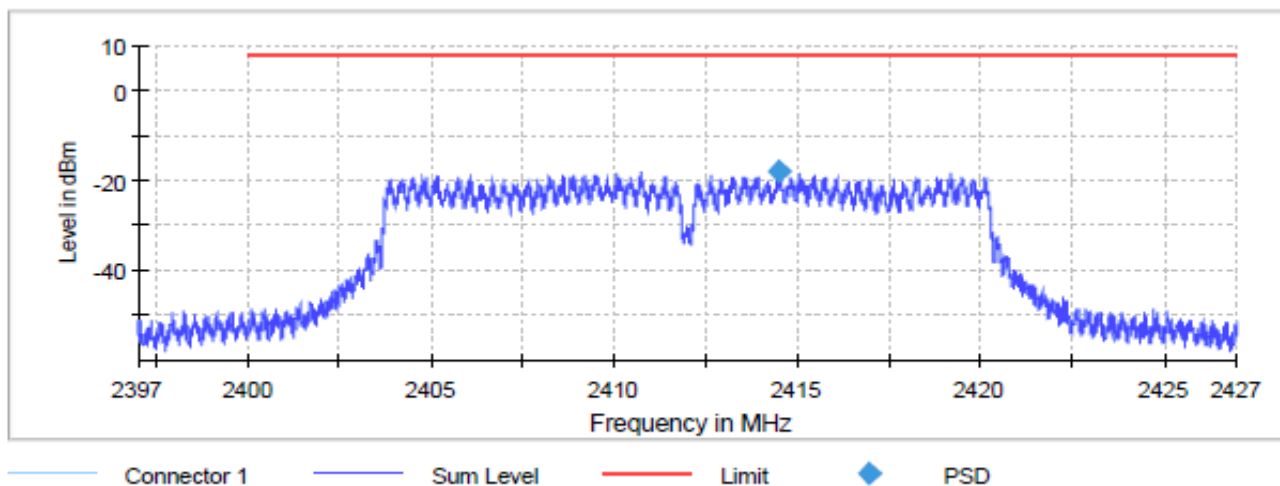
802.11b 2412MHz 1Mbps



Mode	Data Rate	PSD (dBm) 2412 MHz	PSD (dBm) 2437 MHz	PSD (dBm) 2462 MHz	Limit (dBm)
802.11g	6 Mbps	-17.826	-17.278	-18.327	8.0

802.11g 2412MHz 6Mbps

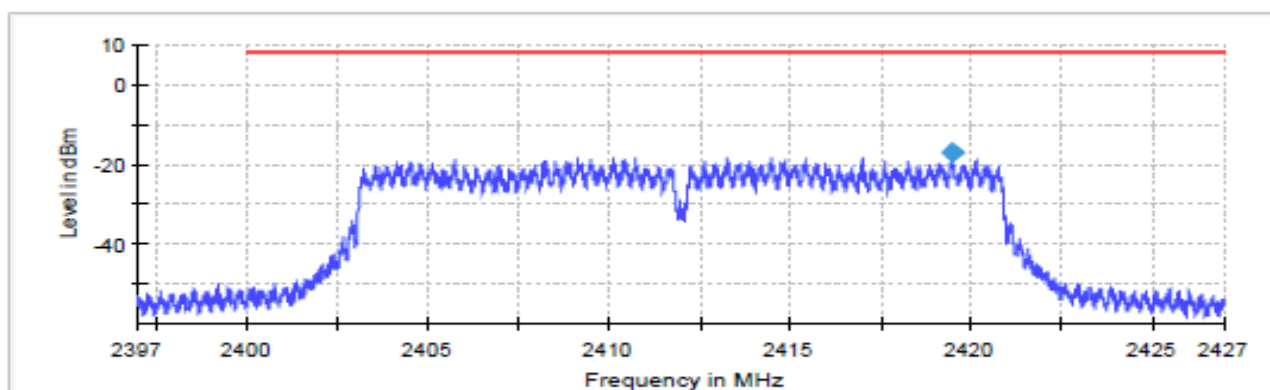
Power Spectral Density



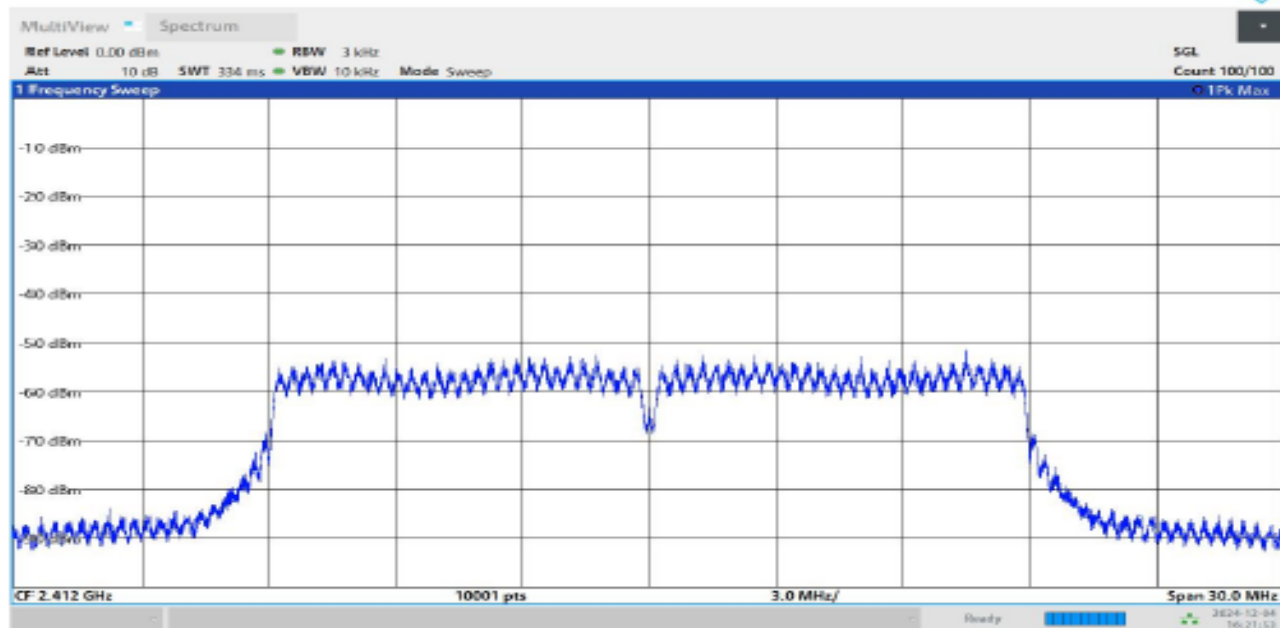
Mode	Data Rate	PSD (dBm) 2412 MHz	PSD (dBm) 2437 MHz	PSD (dBm) 2462 MHz	Limit (dBm)
802.11n	MCS0	-17.319	-17.783	-18.058	8.0

802.11n (HT20) 2412MHz MCS0

Power Spectral Density



Connector 1 Sum Level Limit PSD



04:21:54 PM 12/04/2024

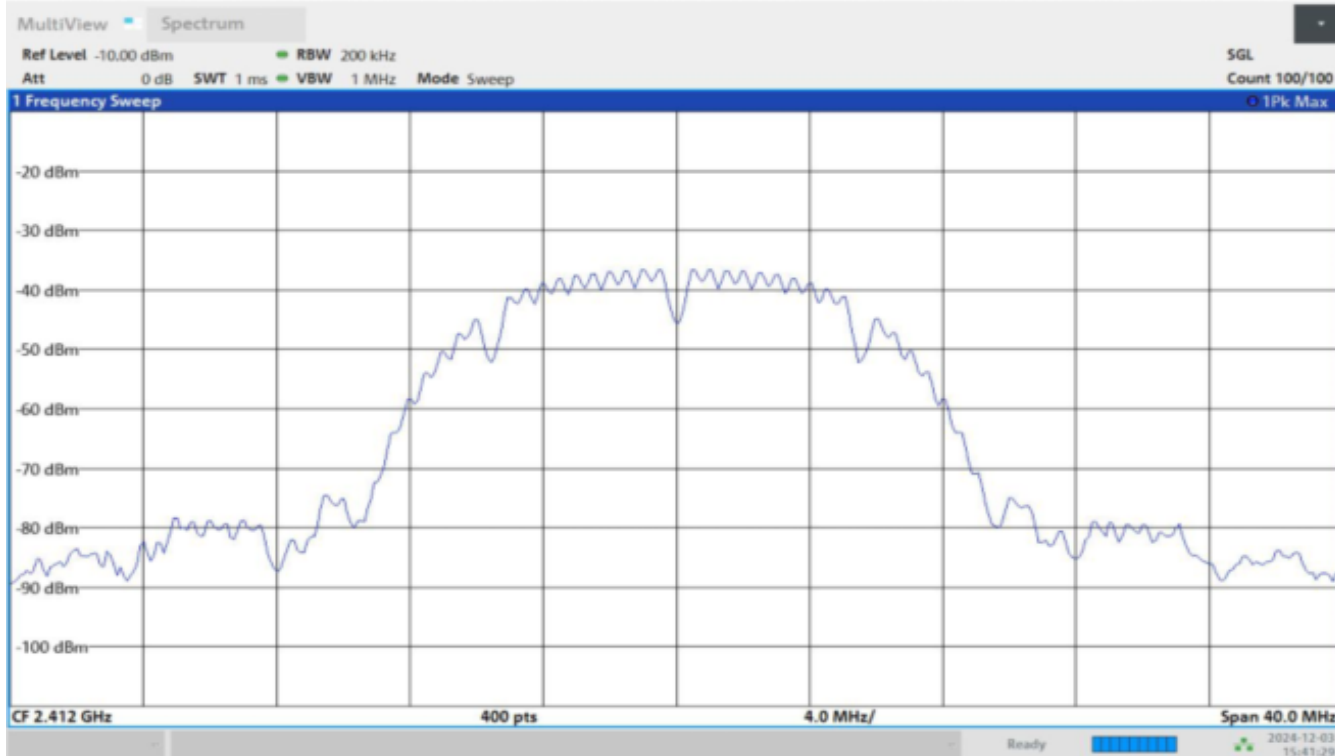
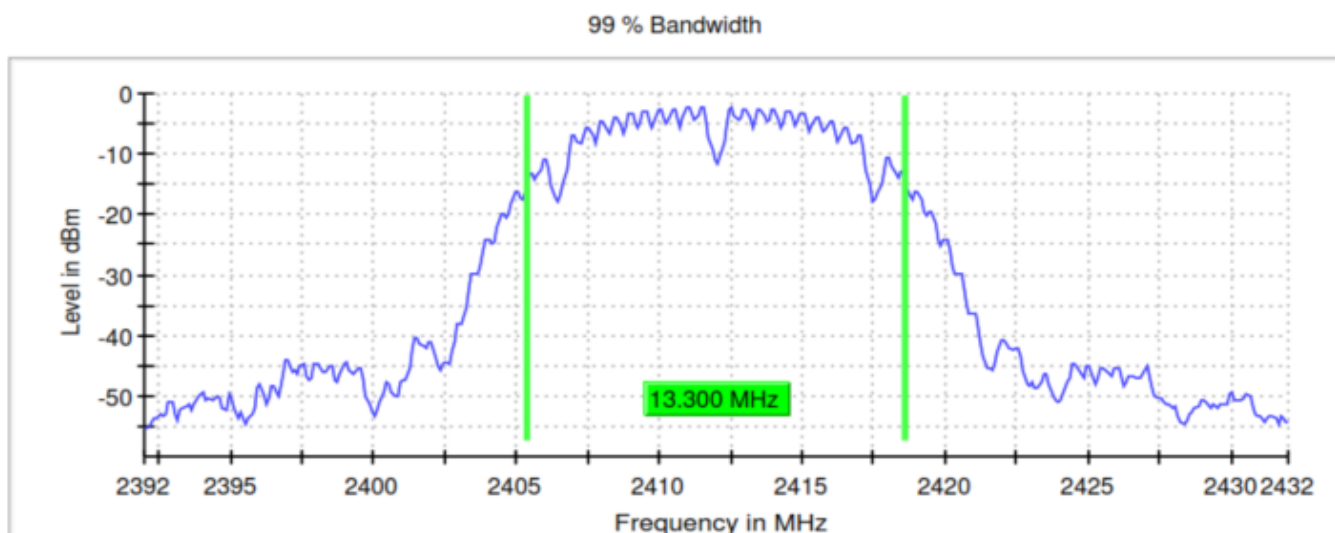
4.4.3 Occupied Channel Bandwidth

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

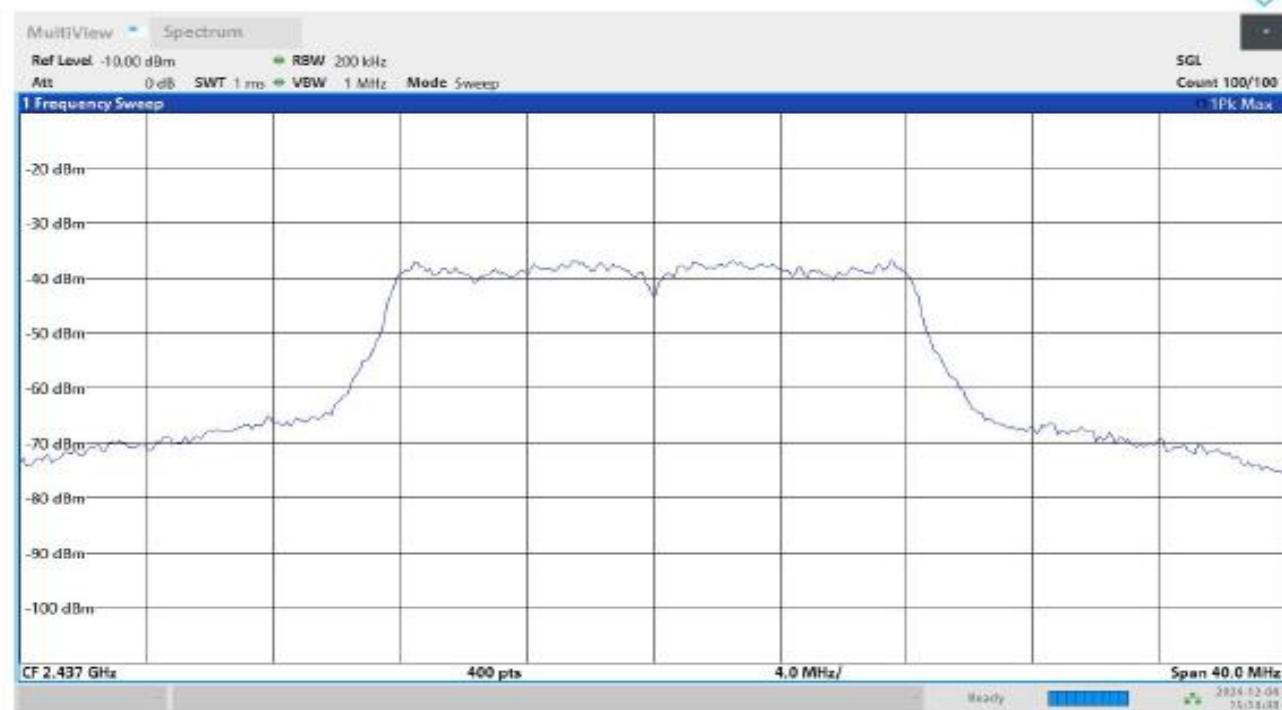
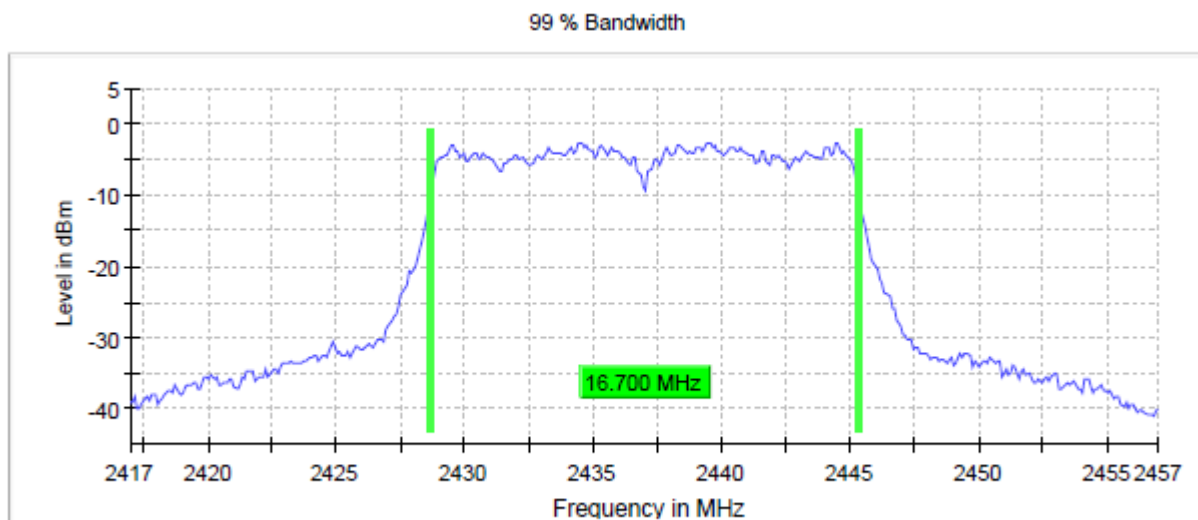
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

Data Rate	DUT Frequency (MHz)	Bandwidth (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
802.11b 1Mbps	2412	13.300000	2405.35	2418.65
802.11g 6Mbps	2412	16.700000	2403.65	2420.35
802.11n (HT20) MCS0	2412	17.700000	2403.15	2420.85
802.11b 1Mbps	2437	13.300000	2430.35	2443.65
802.11g 6Mbps	2437	16.700000	2428.65	2445.35
802.11n (HT20) MCS0	2437	17.700000	2428.15	2445.85
802.11b 1Mbps	2462	13.300000	2445.35	2468.65
802.11g 6Mbps	2462	16.700000	2453.65	2470.35
802.11n (HT20) MCS0	2462	17.700000	2453.15	2470.85

802.11b 1Mbps 2412MHz

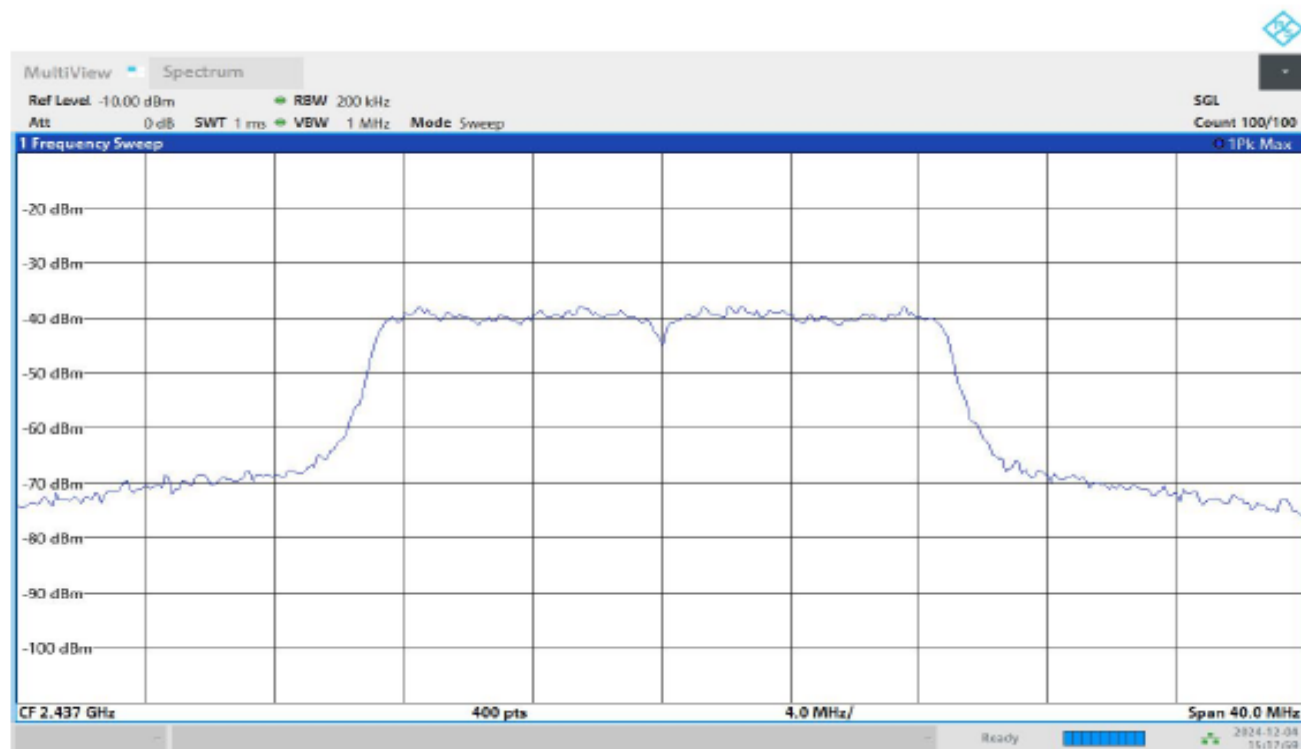
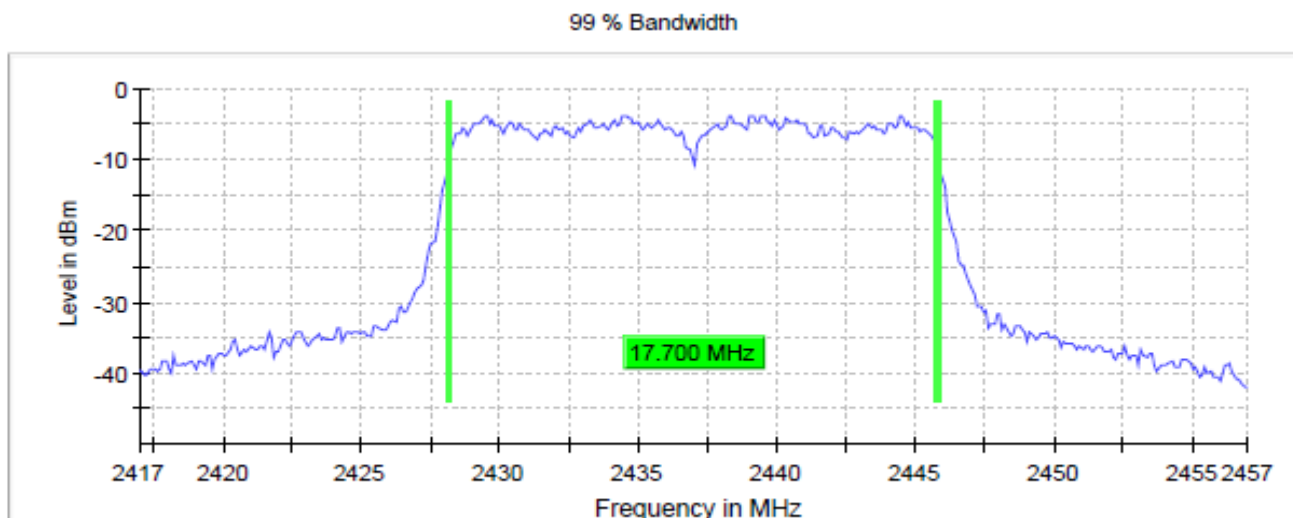


802.11g 6Mbps 2437MHz



03:14:35 PM 12/04/2024

802.11n MCS0 2437MHz



03:17:59 PM 12/04/2024

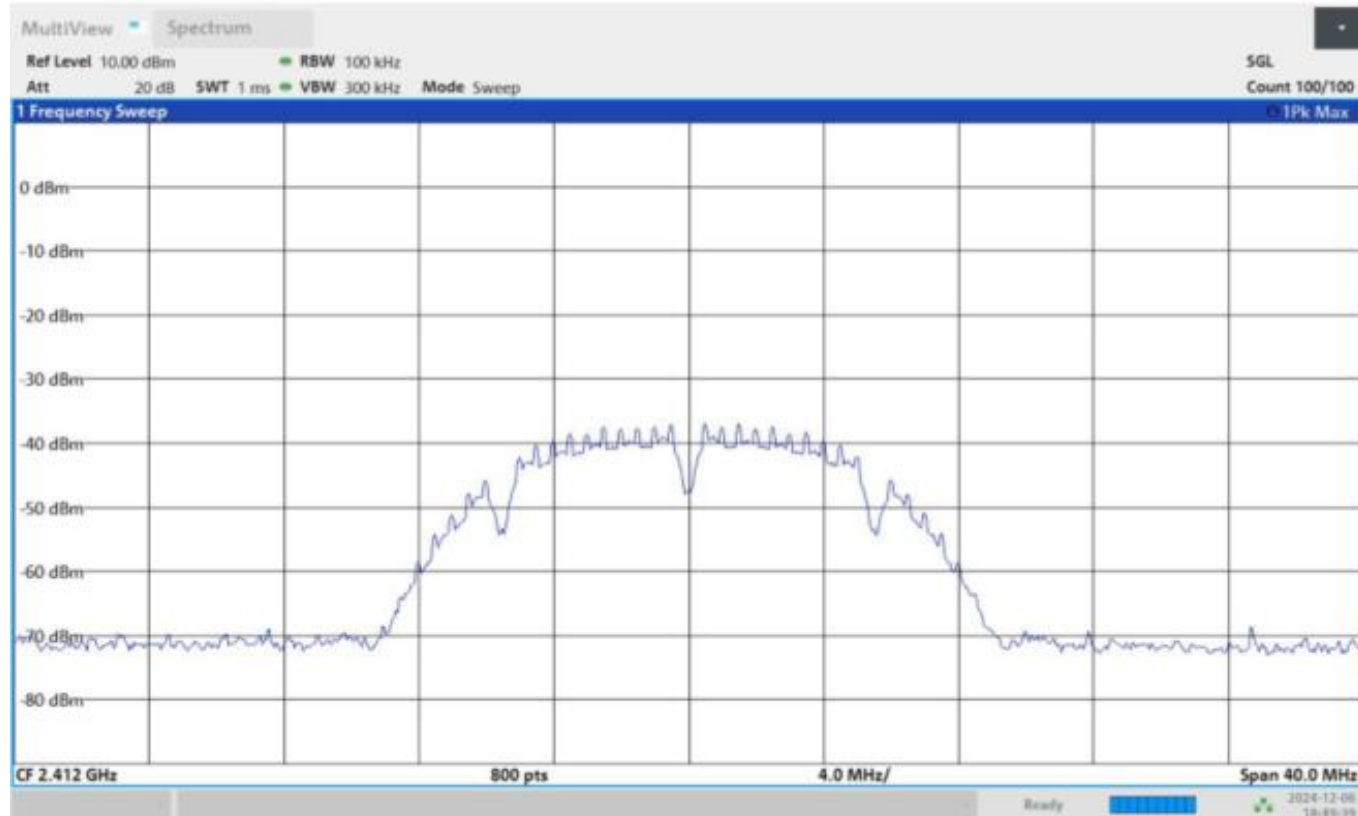
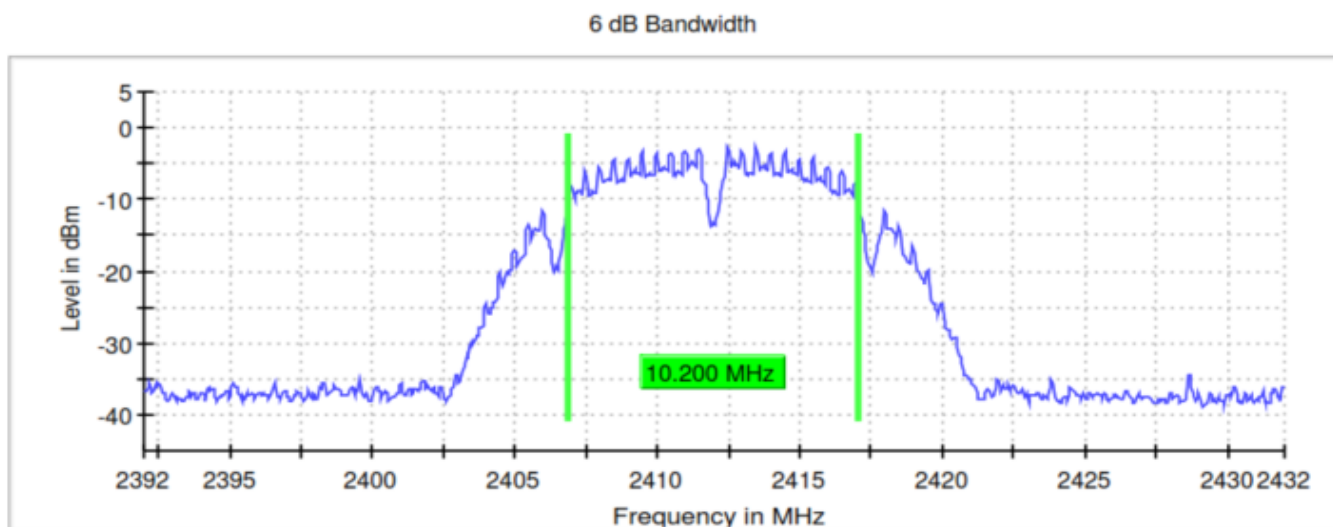
4.4.4 DTS Bandwidth (6dB)

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)

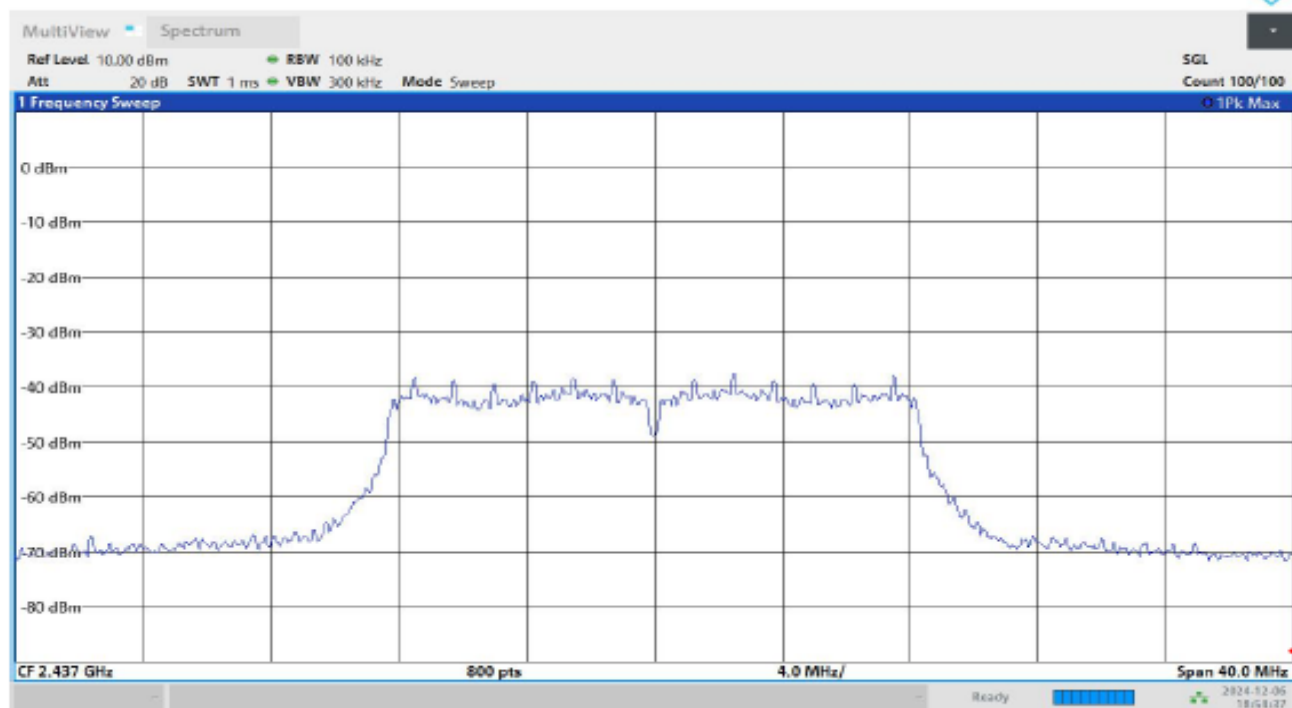
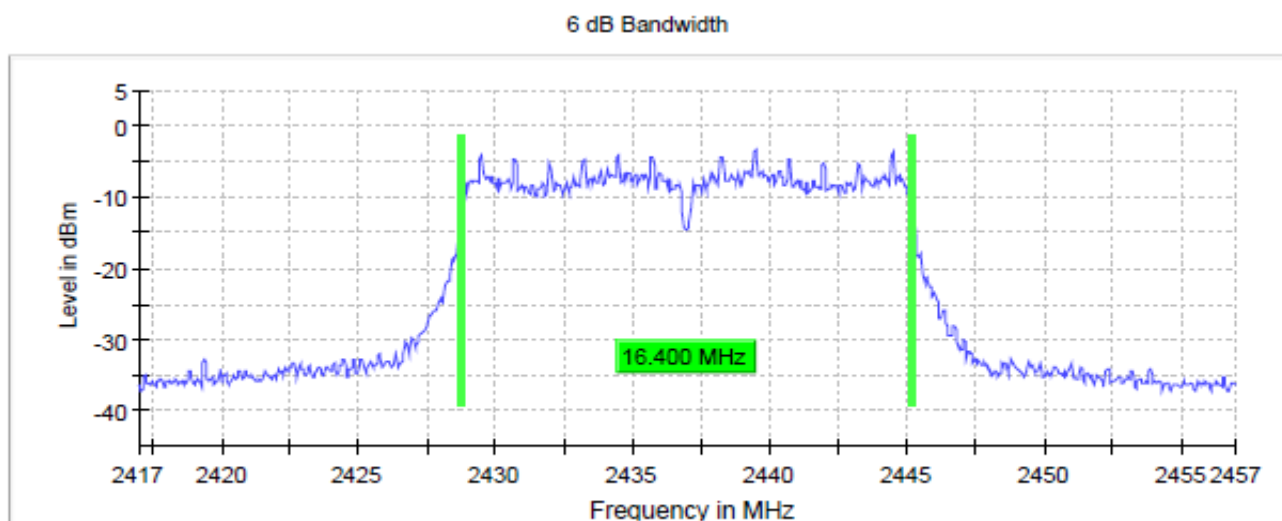
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

Data Rate	DUT Frequency (MHz)	Bandwidth (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Minimum Limit (MHz)
802.11b 1Mbps	2412	10.200000	2406.875	2417.075	0.500000
802.11g 6Mbps	2412	16.400000	2403.775	2420.175	0.500000
802.11n (HT20) MCS0	2412	17.600000	2403.175	2420.775	0.500000
802.11b 1Mbps	2437	10.200000	2431.875	2442.075	0.500000
802.11g 6Mbps	2437	16.400000	2428.775	2445.175	0.500000
802.11n (HT20) MCS0	2437	17.650000	2428.125	2445.775	0.500000
802.11b 1Mbps	2462	10.200000	2456.875	2467.075	0.500000
802.11g 6Mbps	2462	16.400000	2453.775	2470.175	0.500000
802.11n (HT20) MCS0	2462	17.650000	2453.125	2470.775	0.500000

802.11b 2412MHz 1Mbps



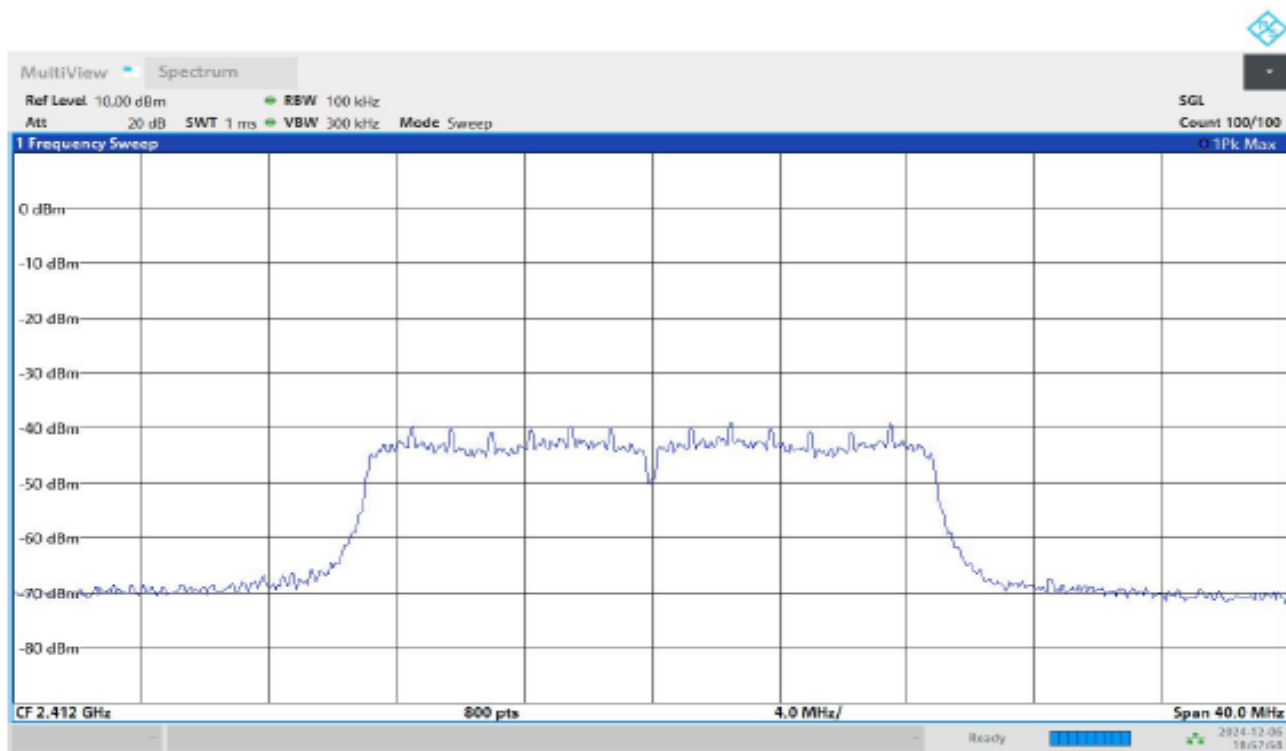
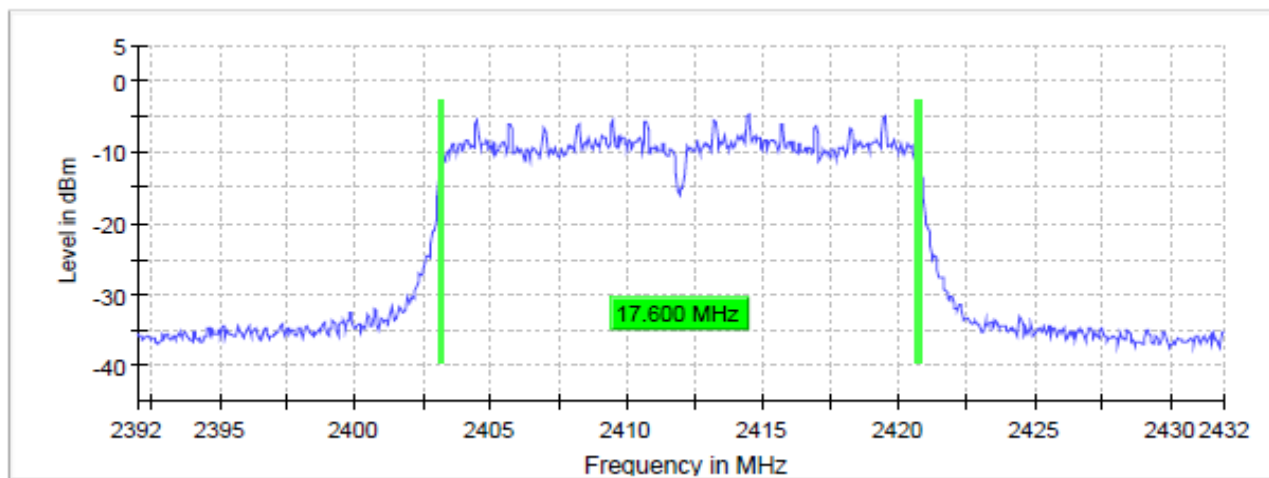
802.11g 2437MHz 6Mbps



06:54:38 PM 12/06/2024

802.11n 2412MHz MCS0

6 dB Bandwidth



06:57:54 PM 12/06/2024

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 (802.11g 6Mbps 2412MHz)				
Frequency (MHz)		Level (dBm)		
2414.525000		-5.1		

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.775000	-36.0	0.9	-35.1	PASS
2399.825000	-36.3	1.2	-35.1	PASS
2398.925000	-36.3	1.2	-35.1	PASS
2399.125000	-36.4	1.3	-35.1	PASS
2398.875000	-36.4	1.3	-35.1	PASS
2399.175000	-36.4	1.3	-35.1	PASS
2399.975000	-36.5	1.4	-35.1	PASS
2399.525000	-36.6	1.5	-35.1	PASS
2399.475000	-36.6	1.5	-35.1	PASS
2399.725000	-36.8	1.7	-35.1	PASS
2399.875000	-37.2	2.1	-35.1	PASS
2399.575000	-37.3	2.2	-35.1	PASS
2399.925000	-37.3	2.2	-35.1	PASS
2398.975000	37.5	2.4	-35.1	PASS
2398.775000	-37.8	2.7	-35.1	PASS

Band Edge

— Limit — Sum Level X Fail

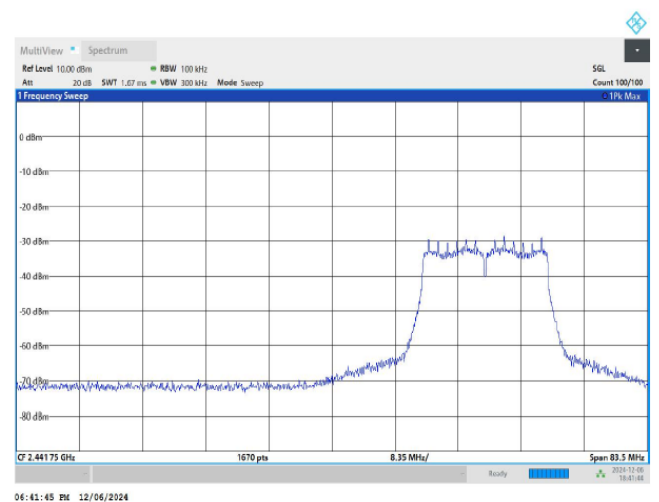
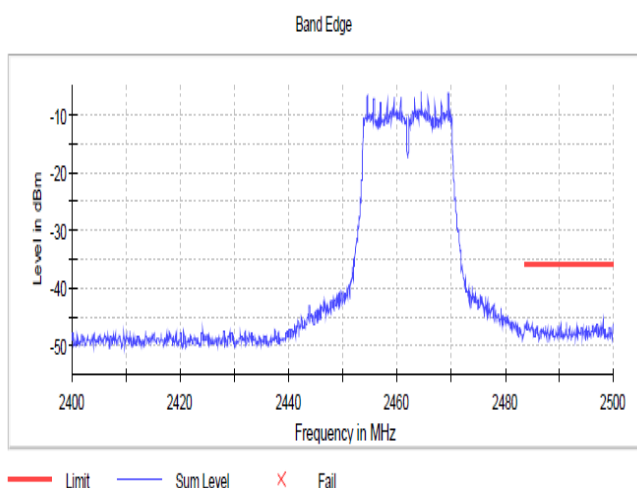
CF 2.44175 GHz 1670 pts 8.35 MHz/ Span 83.5 MHz

06:41:02 PM 12/06/2024

Band Edge High (802.11g 6Mbps 2462MHz)

Frequency (MHz)	Level (dBm)
2464.525000	-6.0

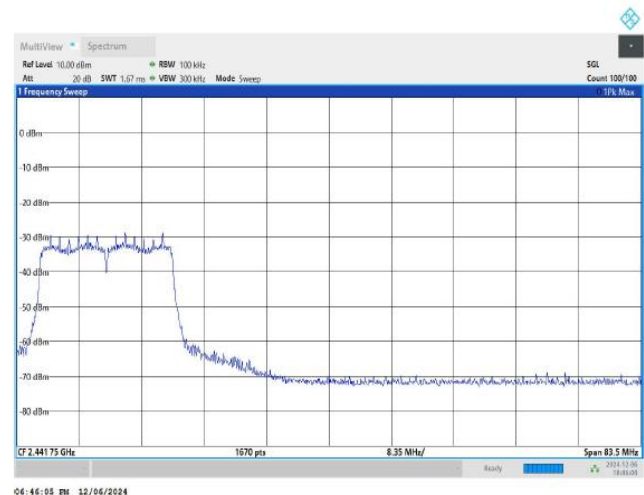
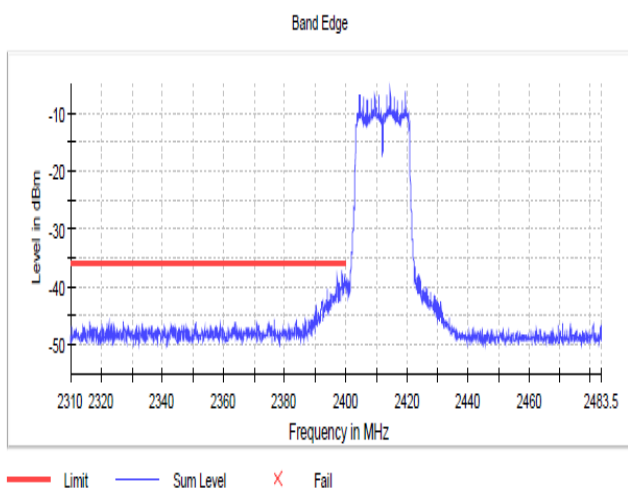
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2498.075000	-45.8	9.8	-36.0	PASS
2491.325000	-45.9	9.9	-36.0	PASS
2498.125000	-45.9	9.9	-36.0	PASS
2483.925000	-45.9	10.0	-36.0	PASS
2483.975000	-46.0	10.0	-36.0	PASS
2484.275000	-46.1	10.1	-36.0	PASS
2484.025000	-46.1	10.1	-36.0	PASS
2497.025000	-46.1	10.1	-36.0	PASS
2490.275000	-46.1	10.2	-36.0	PASS
2484.425000	-46.2	10.2	-36.0	PASS
2484.375000	-46.2	10.2	-36.0	PASS
2483.525000	-46.2	10.2	-36.0	PASS
2500.000000	-46.2	10.3	-36.0	PASS
2499.975000	-46.2	10.3	-36.0	PASS
2483.575000	-46.2	10.3	-36.0	PASS



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

Frequency (MHz)	Level (dBm)
2414.525000	-6.0

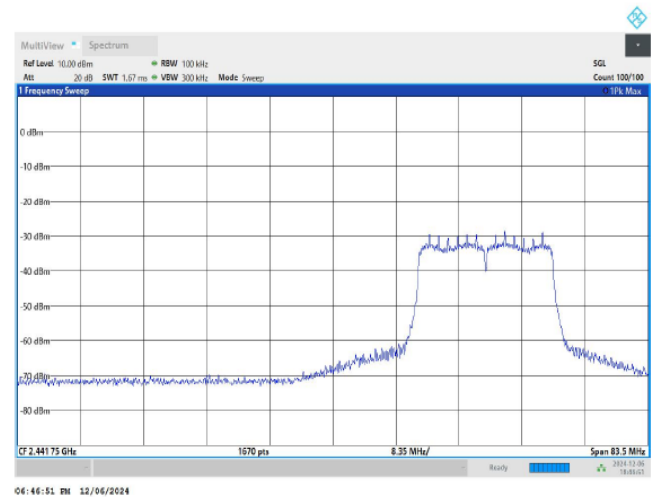
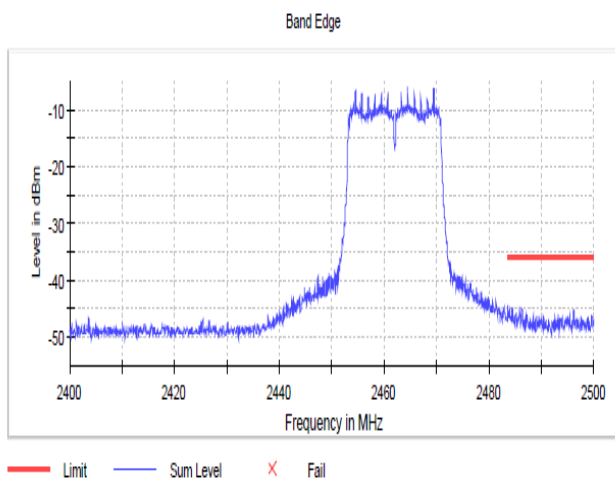
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2398.525000	-37.1	1.2	-36.0	PASS
2398.475000	-37.6	1.6	-36.0	PASS
2398.625000	-37.6	1.7	-36.0	PASS
2398.675000	-37.7	1.8	-36.0	PASS
2398.575000	-37.7	1.8	-36.0	PASS
2399.525000	-37.9	1.9	-36.0	PASS
2398.875000	-38.0	2.0	-36.0	PASS
2398.925000	-38.0	2.0	-36.0	PASS
2399.475000	-38.3	2.3	-36.0	PASS
2397.275000	-38.4	2.4	-36.0	PASS
2397.225000	-38.4	2.5	-36.0	PASS
2399.575000	-38.5	2.6	-36.0	PASS
2399.775000	-38.6	2.7	-36.0	PASS
2399.725000	-38.8	2.9	-36.0	PASS
2399.825000	-39.1	3.1	-36.0	PASS



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

Frequency (MHz)	Level (dBm)
2464.525000	-5.9

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.525000	-44.5	8.6	-35.9	PASS
2485.875000	-44.7	8.7	-35.9	PASS
2483.625000	-44.7	8.8	-35.9	PASS
2484.525000	-44.9	9.0	-35.9	PASS
2483.925000	-44.9	9.0	-35.9	PASS
2484.475000	-44.9	9.0	-35.9	PASS
2483.975000	-44.9	9.0	-35.9	PASS
2486.325000	-45.0	9.1	-35.9	PASS
2496.175000	-45.2	9.3	-35.9	PASS
2496.225000	-45.3	9.4	-35.9	PASS
2483.575000	-45.3	9.4	-35.9	PASS
2486.375000	-45.4	9.5	-35.9	PASS
2485.925000	-45.4	9.5	-35.9	PASS
2483.675000	-45.6	9.7	-35.9	PASS
2483.875000	-45.7	9.8	-35.9	PASS

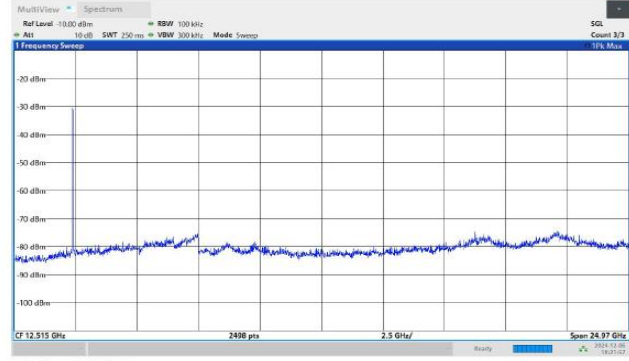
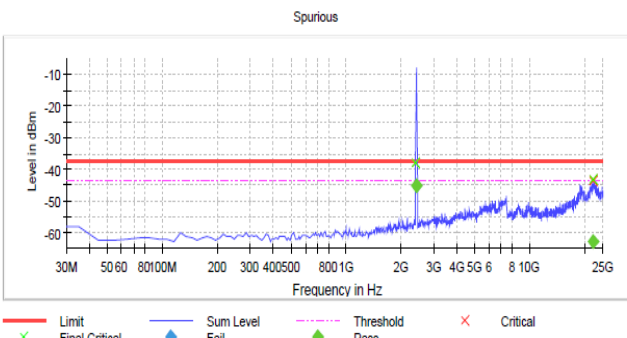


4.4.6 Tx Spurious Emissions

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

802.11g 6Mbps 2412MHz				
Final Measurement				
Frequency (MHz)	Level Pre-Measurement (dBm)	Level (dBm)	Margin (dB)	Limit (dBm)
2399.140525	-22.9	-45.3	7.5	-37.7
22087.783878	-44.2	-63.0	25.3	-37.7
Pre-Measurement				
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	
2394.053243	-37.9	0.1	-37.7	
22096.162930	-43.3	5.5	-37.7	
22126.150921	-43.5	5.7	-37.7	
22056.178943	-43.7	6.0	-37.7	
22146.142914	-43.8	6.1	-37.7	
21966.214972	-43.8	6.1	-37.7	
22016.194956	-43.8	6.1	-37.7	
22456.018815	-44.3	6.6	-37.7	
22086.166934	-44.3	6.6	-37.7	
22246.102882	-44.3	6.6	-37.7	
21996.202926	-44.4	6.6	-37.7	
22046.182946	-44.4	6.6	-37.7	
22286.086869	-44.5	6.7	-37.7	
22985.806645	-44.6	6.8	-37.7	
21956.218975	-44.6	6.8	-37.7	



802.11g 6Mbps 2437MHz

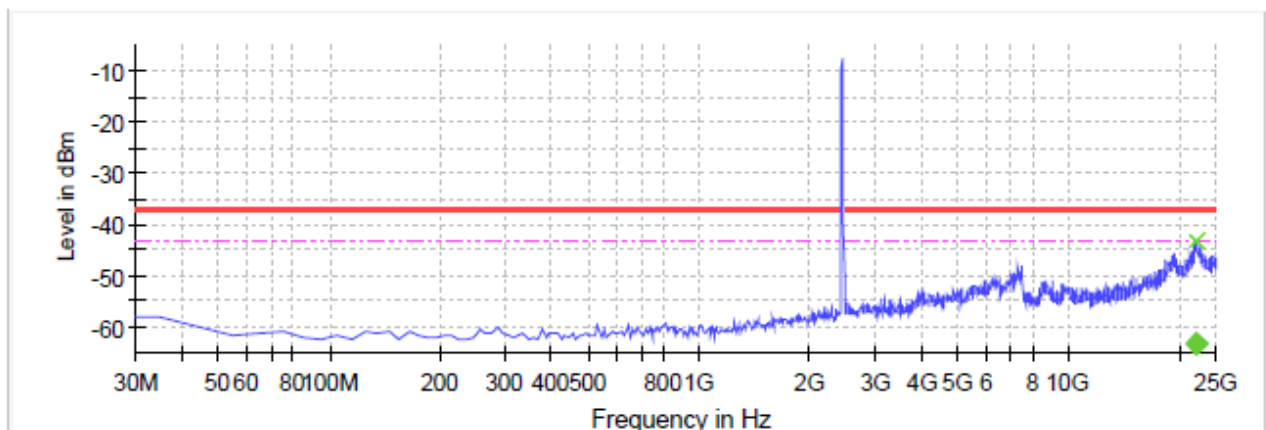
Final Measurement

Frequency (MHz)	Level Pre-Measurement (dBm)	Level (dBm)	Margin (dB)	Limit (dBm)
22062.263731	-44.2	-63.3	26.0	-37.3

Pre-Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
22056.178943	-43.1	5.8	-37.3
22186.126902	-43.6	6.3	-37.3
22206.118895	-43.6	6.3	-37.3
21986.206966	-43.6	6.3	-37.3
21846.263010	-43.6	6.4	-37.3
22286.086869	-43.7	6.4	-37.3
22096.162930	-43.7	6.4	-37.3
22226.110889	-43.8	6.5	-37.3
21776.291033	-43.8	6.5	-37.3
21916.234988	-43.8	6.6	-37.3
22116.154924	-43.9	6.6	-37.3
22086.166934	-44.0	6.7	-37.3
21976.210969	-44.1	6.8	-37.3
21816.275020	-44.2	6.9	-37.3
22196.122898	-44.2	6.9	-37.3

Spurious



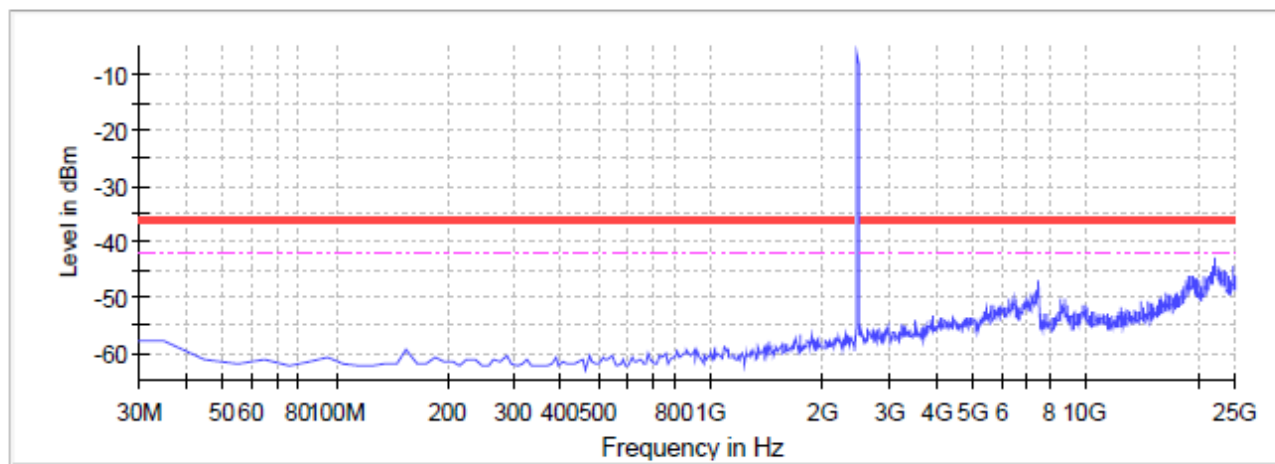
X Limit Final Critical
 ◆ Sum Level Fail
 ◆ Threshold Pass
 X Critical

802.11g 6Mbps 2462MHz

Pre-Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
22056.178943	-42.9	6.8	-36.1
22096.162930	-43.0	6.9	-36.1
22116.154924	-43.1	7.0	-36.1
22176.130905	-43.6	7.5	-36.1
21996.202962	-43.8	7.6	-36.1
22086.166934	-43.9	7.8	-36.1
21986.206966	-44.0	7.9	-36.1
22126.150921	-44.1	7.9	-36.1
2484.017214	-44.1	8.0	-36.1
22046.182946	-44.2	8.1	-36.1
22036.186950	-44.3	8.2	-36.1
22416.034828	-44.3	8.2	-36.1
22166.134908	-44.3	8.2	-36.1
21866.255004	-44.3	8.2	-36.1
21886.246998	-44.4	8.3	-36.1

Spurious



802.11n (HT20) MCS0 2412MHz

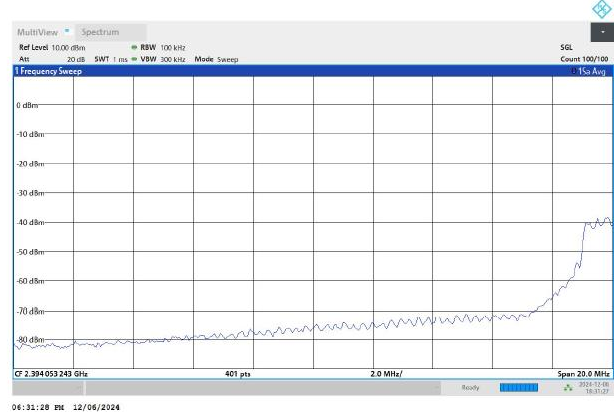
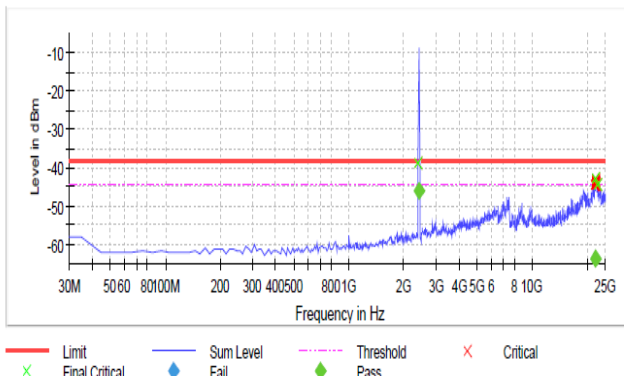
Final Measurement

Frequency (MHz)	Level Pre-Measurement (dBm)	Level (dBm)	Margin (dB)	Limit (dBm)
2399.140525	-23.9	-46.2	7.6	-38.6
21986.655844	-42.9	-63.7	25.1	-38.6
22552.986264	-44.8	-65.1	26.5	-38.6

Pre-Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2394.053243	-38.8	0.2	-38.6
21986.206966	-42.8	4.2	-38.6
22126.150921	-43.2	4.6	-38.6
22026.190953	-43.4	4.8	-38.6
22156.138911	-43.6	5.0	-38.6
22086.166934	-43.8	5.2	-38.6
21976.210969	-43.9	5.3	-38.6
22106.158927	-44.0	5.4	-38.6
22066.174940	-44.1	5.5	-38.6
22096.162930	-44.2	5.6	-38.6
22116.154924	-44.2	5.6	-38.6
22176.130905	-44.2	5.6	-38.6
21876.251001	-44.4	5.8	-38.6
22006.198959	-44.4	5.8	-38.6
22555.978783	-44.4	5.8	-38.6

Spurious



802.11n (HT20) MCS0 2437MHz

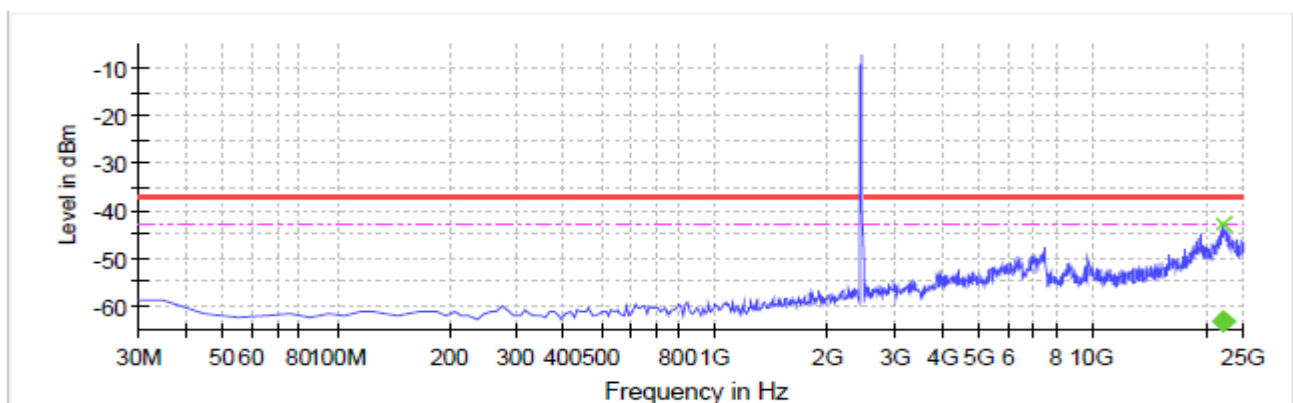
Final Measurement

Frequency (MHz)	Level Pre-Measurement (dBm)	Level (dBm)	Margin (dB)	Limit (dBm)
22066.573942	-43.0	-63.4	26.4	-37.0

Pre-Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
22066.174940	-43.0	5.9	-37.0
21976.210969	-43.3	6.2	-37.0
22056.178943	-43.4	6.4	-37.0
21946.222978	-43.5	6.5	-37.0
22126.150921	-43.8	6.8	-37.0
22246.102882	-43.9	6.8	-37.0
22106.158927	-44.0	6.9	-37.0
22096.162930	-44.0	7.0	-37.0
22136.146918	-44.0	7.0	-37.0
22496.002802	-44.1	7.1	-37.0
22216.114892	-44.3	7.2	-37.0
22016.194956	-44.3	7.2	-37.0
22685.926741	-44.3	7.2	-37.0
22156.138911	-44.3	7.3	-37.0
21966.214972	-44.3	7.3	-37.0

Spurious



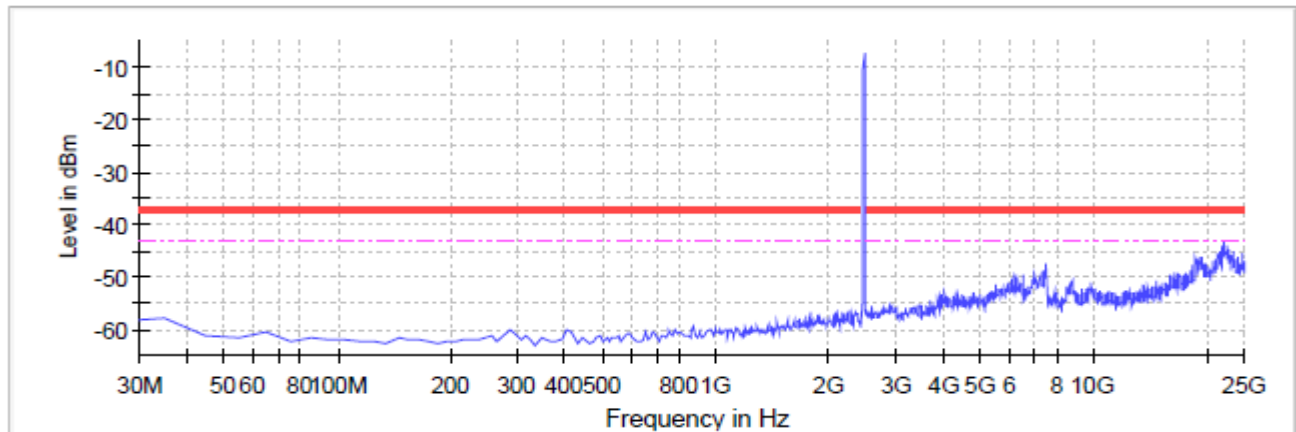
x Limit Final Critical
 ◆ Sum Level Fail
 - - - Threshold Pass
 x Critical

802.11n (HT20) MCS0 2462MHz

Pre-Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
22066.174940	-43.3	6.2	-37.1
22046.182946	-43.3	6.2	-37.1
22076.170937	-43.5	6.4	-37.1
22086.166934	-43.9	6.7	-37.1
21956.218975	-44.0	6.9	-37.1
22545.982786	-44.1	7.0	-37.1
22166.134908	-44.2	7.1	-37.1
21996.202962	-44.2	7.1	-37.1
22406.038831	-44.3	7.2	-37.1
21936.226982	-44.3	7.2	-37.1
21916.234988	-44.3	7.2	-37.1
21986.206966	-44.3	7.2	-37.1
21896.242994	-44.3	7.2	-37.1
21876.215001	-44.5	7.4	-37.1
22126.150921	-44.5	7.4	-37.1

Spurious



5. Radiated Testing

5.1 Test Summary

Start: 12/4/2024	End: 12/19/2024	Temperature: 23.2°C	Initials: SS/AB
		Humidity: 20.1%R.H	

DUT S/N	J24179#1		DUT Operating Mode		2.4GHz WLAN
Comment	The modulation with highest power 802.11g 6Mbps and 802.11n MCS0 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	√

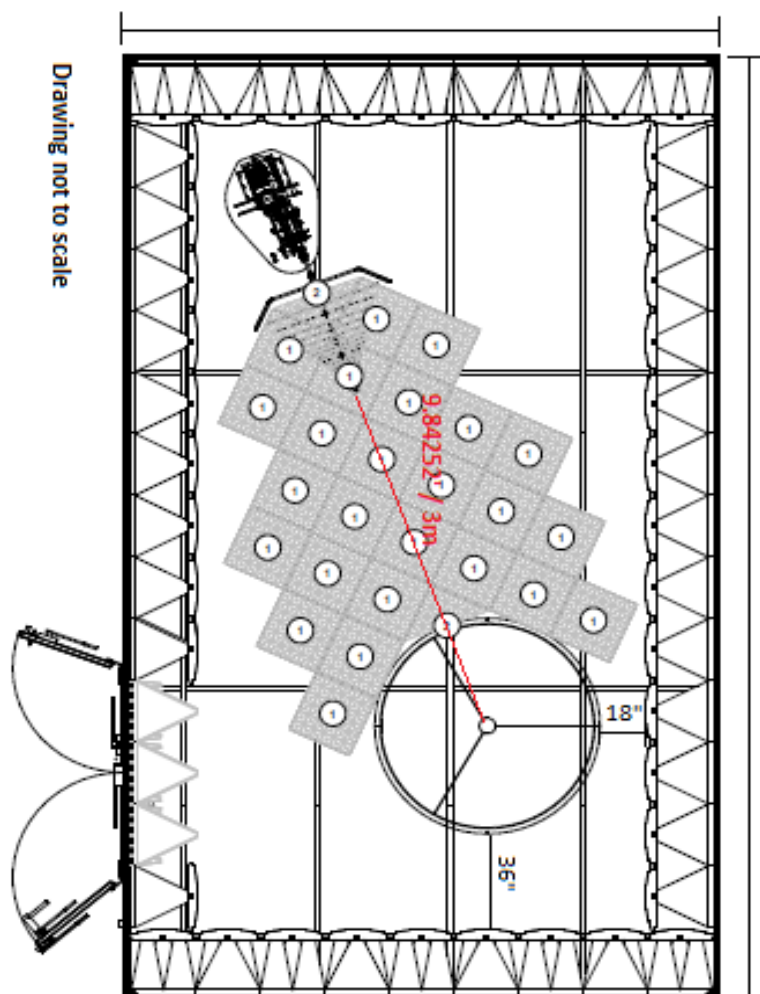
Notes: √ meets the requirements of the acceptance criteria.

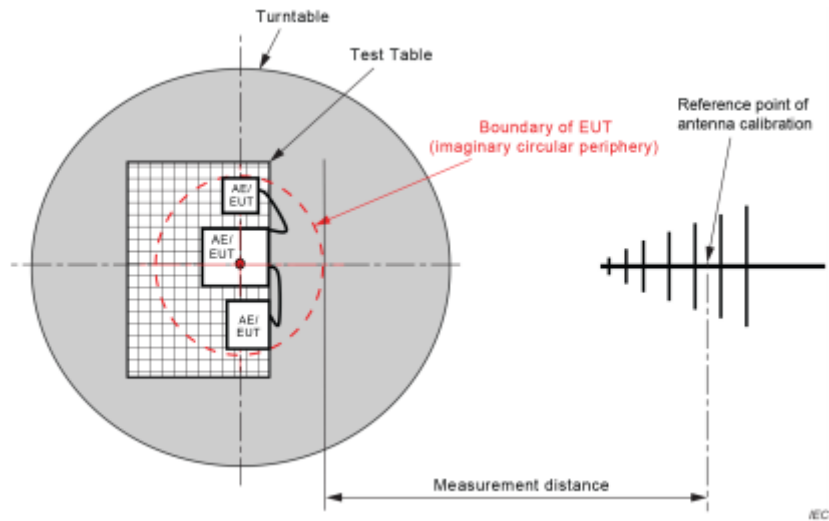
5.2 Test Setup

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	10/30/2025
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: SS/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:

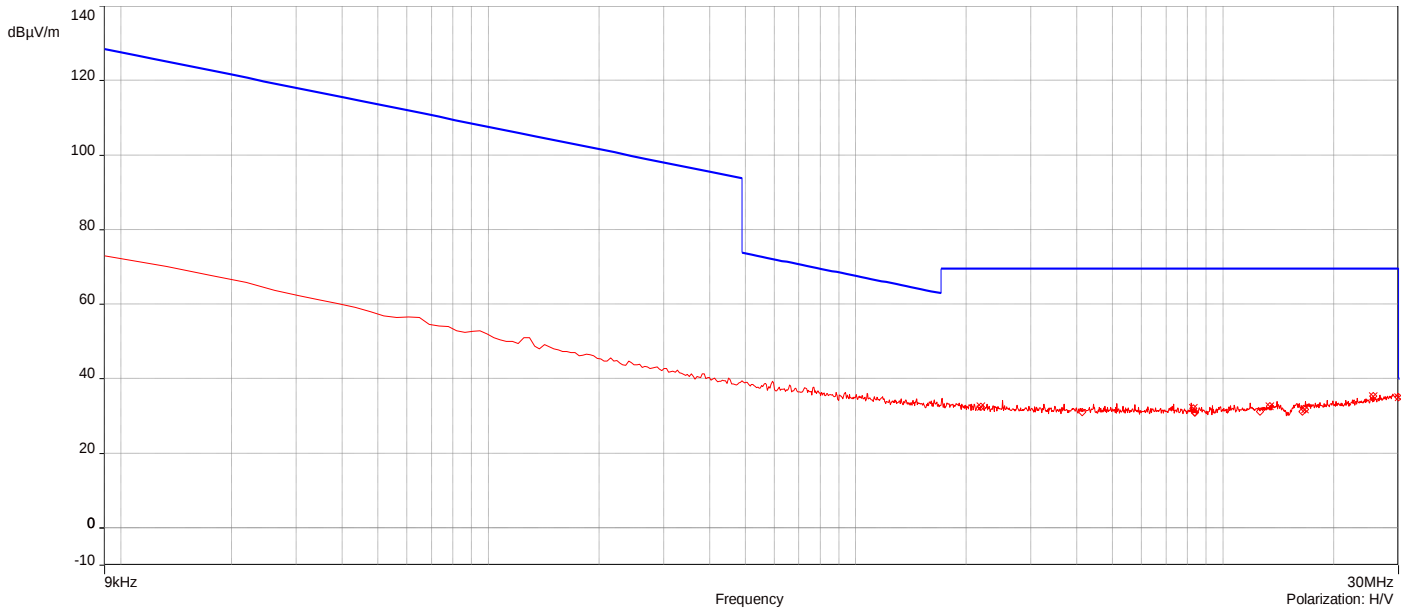
1. Level Average Reading (dBμV/m) = Raw Average Level + Correction Factor
2. Correction Factor (dB) = Antenna Factor + Cable Loss – Preamplifier Gain
3. Margin = Level Average Reading – Limit

J24179#1_2.4G 802.11g_Ch 6_9kHz-30MHz_Ground-Parallel

12/18/2024 09:47:45

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	32.53	19.59	69.54	-37.01	3.05	332.40	H/V	Passed
2.	8.291984MHz	32.01	19.53	69.54	-37.53	3.05	214.90	H/V	Passed
3.	13.395467MHz	32.66	19.90	69.54	-36.88	3.05	119.30	H/V	Passed
4.	16.694949MHz	31.73	20.11	69.54	-37.81	3.05	304.00	H/V	Passed
5.	25.577838MHz	35.28	21.15	69.54	-34.26	3.05	63.10	H/V	Passed
6.	30MHz	35.00	22.04	40.00	-5.00	3.05	357.30	H/V	Passed

Overall Graphs:

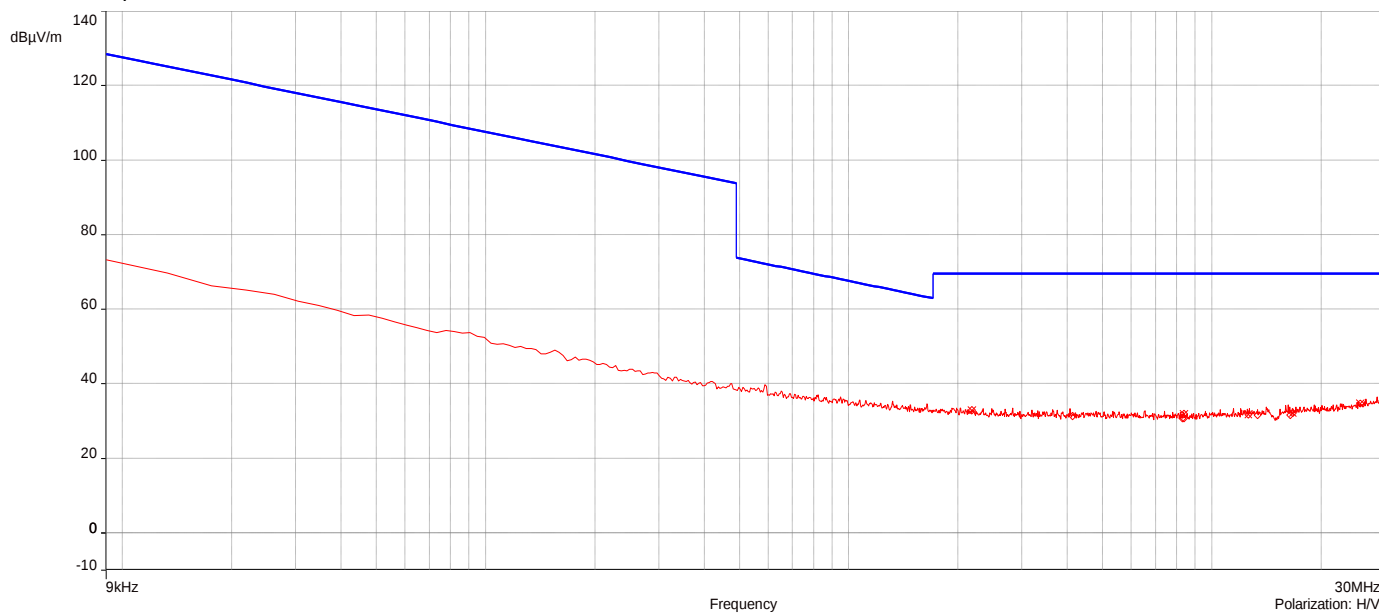


J24179#1_2.4G 802.11g_Ch 6_9kHz-30MHz_Parallel

12/18/2024 09:52:42

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	32.96	19.59	69.54	-36.58	3.05	349.50	H/V	Passed
2.	8.364829MHz	31.95	19.52	69.54	-37.59	3.05	308.60	H/V	Passed
3.	12.577024MHz	31.82	19.84	69.54	-37.72	3.05	179.00	H/V	Passed
4.	16.694949MHz	32.25	20.11	69.54	-37.29	3.05	138.40	H/V	Passed
5.	25.616403MHz	34.75	21.15	69.54	-34.79	3.05	191.90	H/V	Passed
6.	30MHz	34.16	22.04	40.00	-5.84	3.05	28.20	H/V	Passed

Overall Graphs:

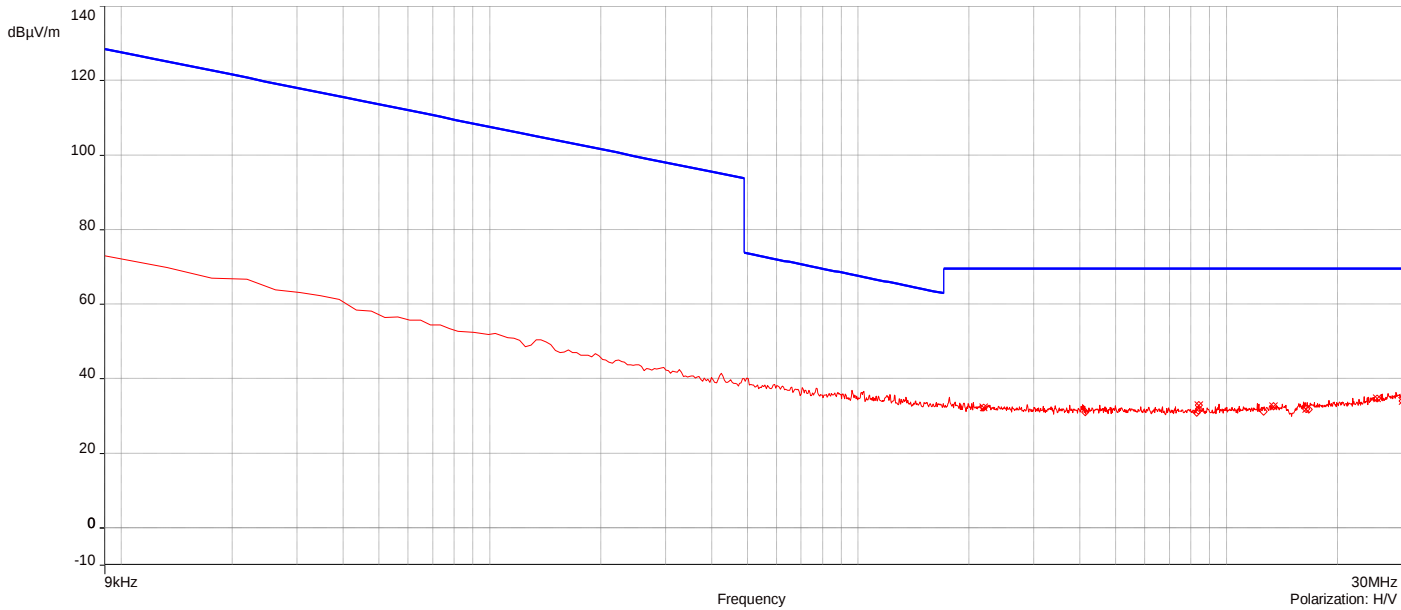


J24179#1_2.4G 802.11g_Ch 6_9kHz-30MHz_Perpendicular

12/18/2024 09:44:30

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	32.34	19.59	69.54	-37.20	3.05	115.30	H/V	Passed
2.	8.386255MHz	32.87	19.52	69.54	-36.67	3.05	258.70	H/V	Passed
3.	13.395467MHz	32.64	19.90	69.54	-36.90	3.05	141.30	H/V	Passed
4.	16.420706MHz	31.90	20.07	69.54	-37.64	3.05	27.90	H/V	Passed
5.	25.582123MHz	34.81	21.15	69.54	-34.73	3.05	17.10	H/V	Passed
6.	30MHz	34.08	22.04	40.00	-5.92	3.05	295.90	H/V	Passed

Overall Graphs:

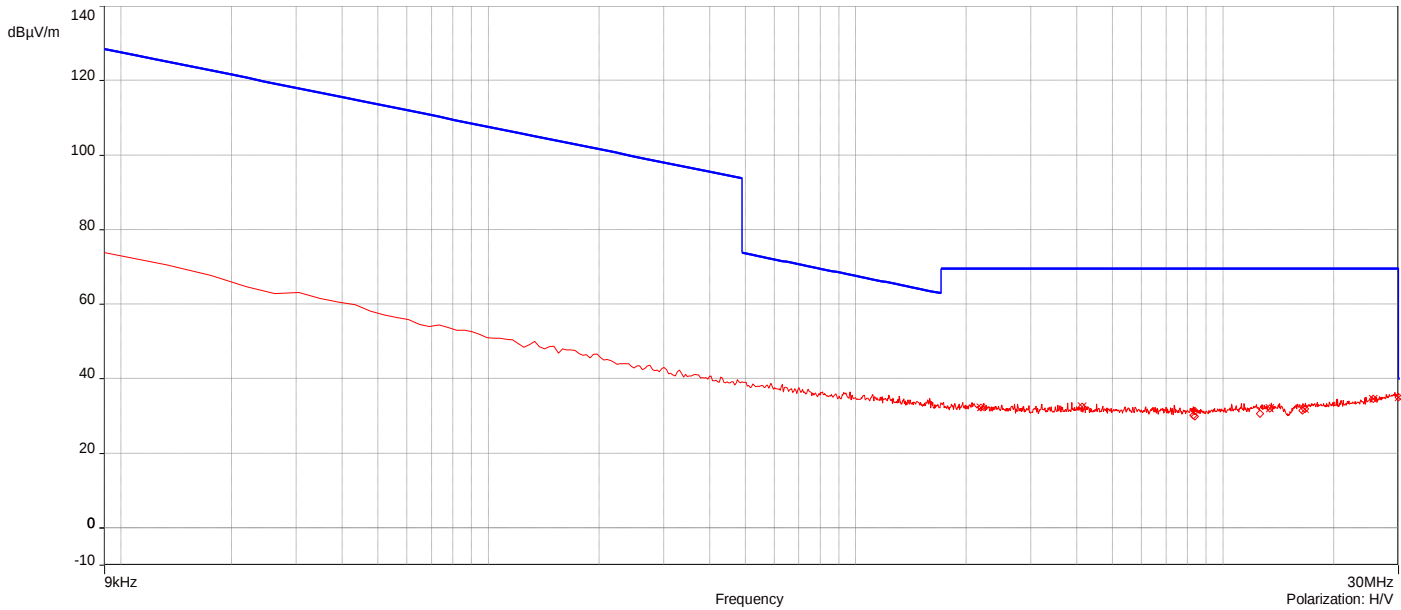


J24179#1_2.4G 802.11n_Ch 6_9kHz-30MHz_Ground-Parallel

12/18/2024 10:06:13

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	32.35	19.59	69.54	-37.19	3.05	255.30	H/V	Passed
2.	4.126924MHz	32.57	19.74	69.54	-36.97	3.05	346.40	H/V	Passed
3.	13.382612MHz	32.12	19.90	69.54	-37.42	3.05	358.90	H/V	Passed
4.	16.694949MHz	31.93	20.11	69.54	-37.61	3.05	70.90	H/V	Passed
5.	25.607833MHz	34.70	21.15	69.54	-34.84	3.05	83.80	H/V	Passed
6.	30MHz	35.03	22.04	40.00	-4.97	3.05	277.40	H/V	Passed

Overall Graphs:

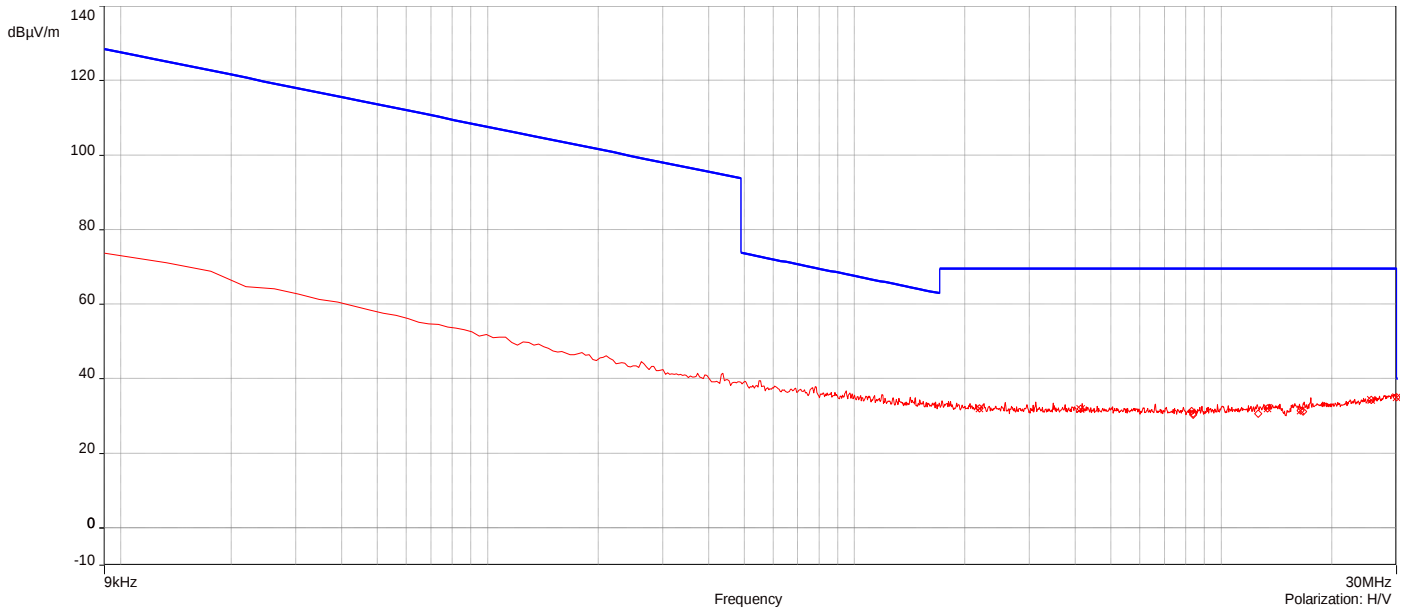


J24179#1_2.4G 802.11n_Ch 6_9kHz-30MHz_Parallel

12/18/2024 10:00:46

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	32.11	19.59	69.54	-37.43	3.05	70.00	H/V	Passed
2.	4.126924MHz	31.87	19.74	69.54	-37.67	3.05	162.60	H/V	Passed
3.	13.365472MHz	32.12	19.90	69.54	-37.42	3.05	46.00	H/V	Passed
4.	16.420706MHz	31.51	20.07	69.54	-38.03	3.05	259.60	H/V	Passed
5.	25.624973MHz	34.39	21.15	69.54	-35.15	3.05	0.10	H/V	Passed
6.	30MHz	35.02	22.04	40.00	-4.98	3.05	160.50	H/V	Passed

Overall Graphs:

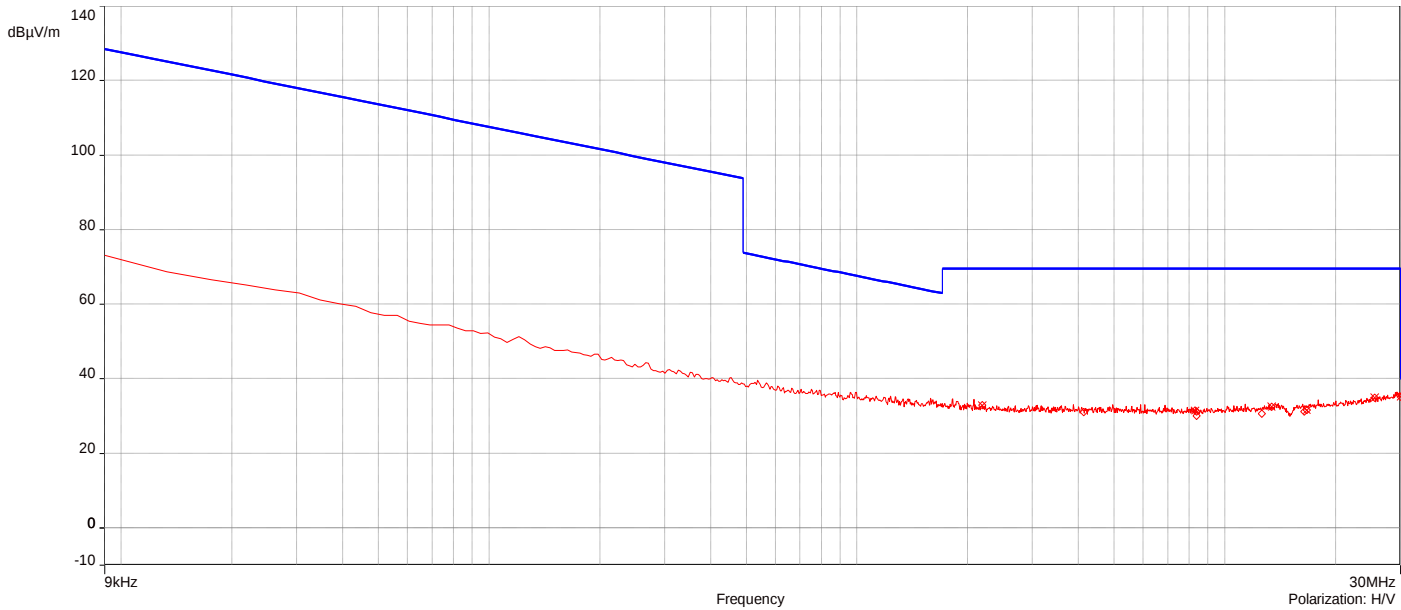


J24179#1_2.4G 802.11n_Ch 6_9kHz-30MHz_Perpendicular

12/18/2024 10:13:34

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	32.87	19.59	69.54	-36.67	3.05	353.70	H/V	Passed
2.	8.291984MHz	31.53	19.53	69.54	-38.01	3.05	265.10	H/V	Passed
3.	13.391182MHz	32.52	19.90	69.54	-37.02	3.05	107.40	H/V	Passed
4.	16.694949MHz	31.66	20.11	69.54	-37.88	3.05	16.10	H/V	Passed
5.	25.552128MHz	34.96	21.15	69.54	-34.58	3.05	215.00	H/V	Passed
6.	30MHz	35.17	22.04	40.00	-4.83	3.05	354.80	H/V	Passed

Overall Graphs:

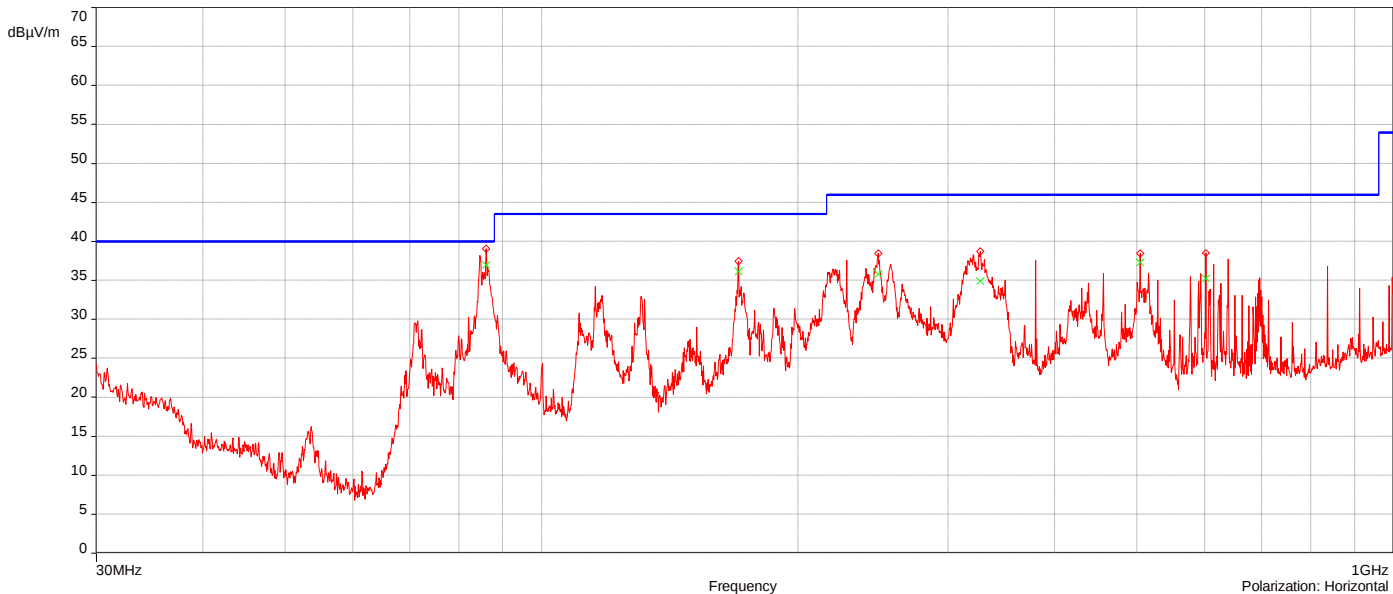


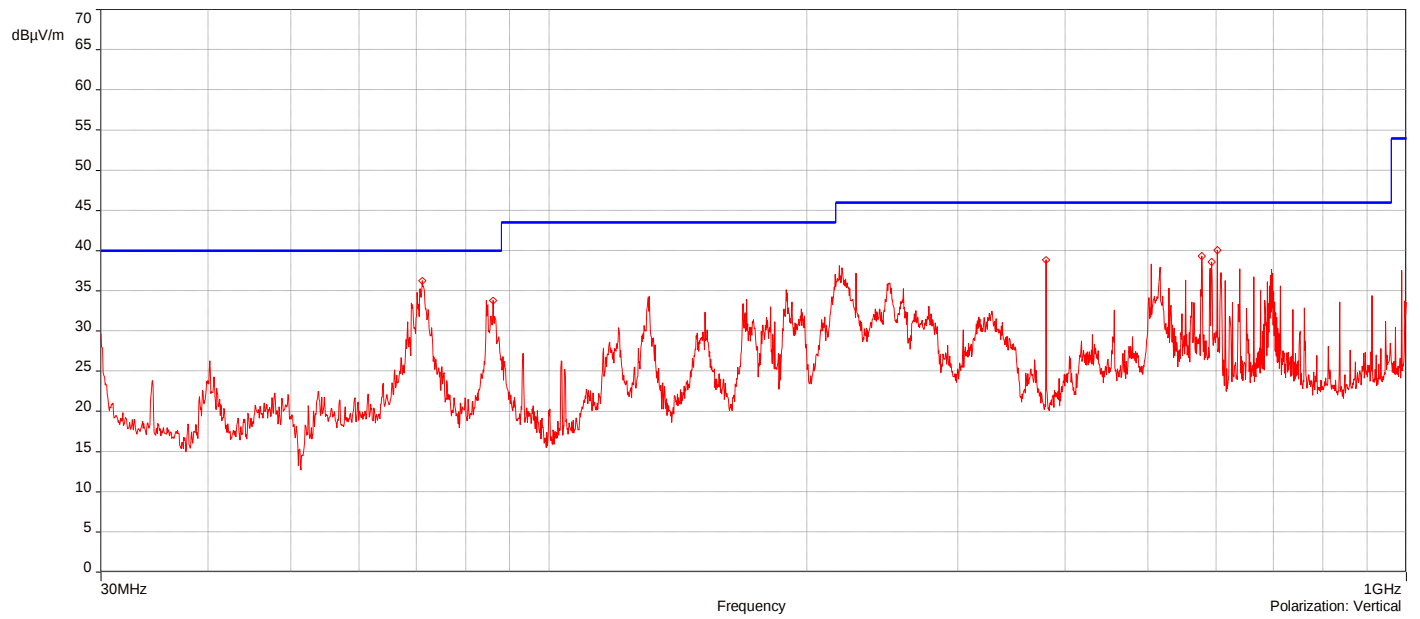
J24179#1_2.4G_802.11g_6Mbps_Ch 6_30MHz-1GHz

12/19/2024 14:44:14

No	Frequency (MHz)	Level Q- Peak Reading (dBμV/m)	Correctio n Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	86.035061MHz	37.01	-16.48	40.00	-2.99	2.00	6.10	Horizontal	Passed
2.	170.14471MHz	36.14	-17.63	43.50	-7.36	2.00	6.10	Horizontal	Passed
3.	248.14872MHz	35.83	-15.50	46.00	-10.17	1.50	203.90	Horizontal	Passed
4.	327.00865MHz	34.92	-13.05	46.00	-11.08	1.00	295.90	Horizontal	Passed
5.	503.84434MHz	37.31	-9.21	46.00	-8.69	1.00	55.10	Horizontal	Passed
6.	602.16248MHz	35.27	-7.55	46.00	-10.73	1.50	247.10	Horizontal	Passed

Overall Graphs:



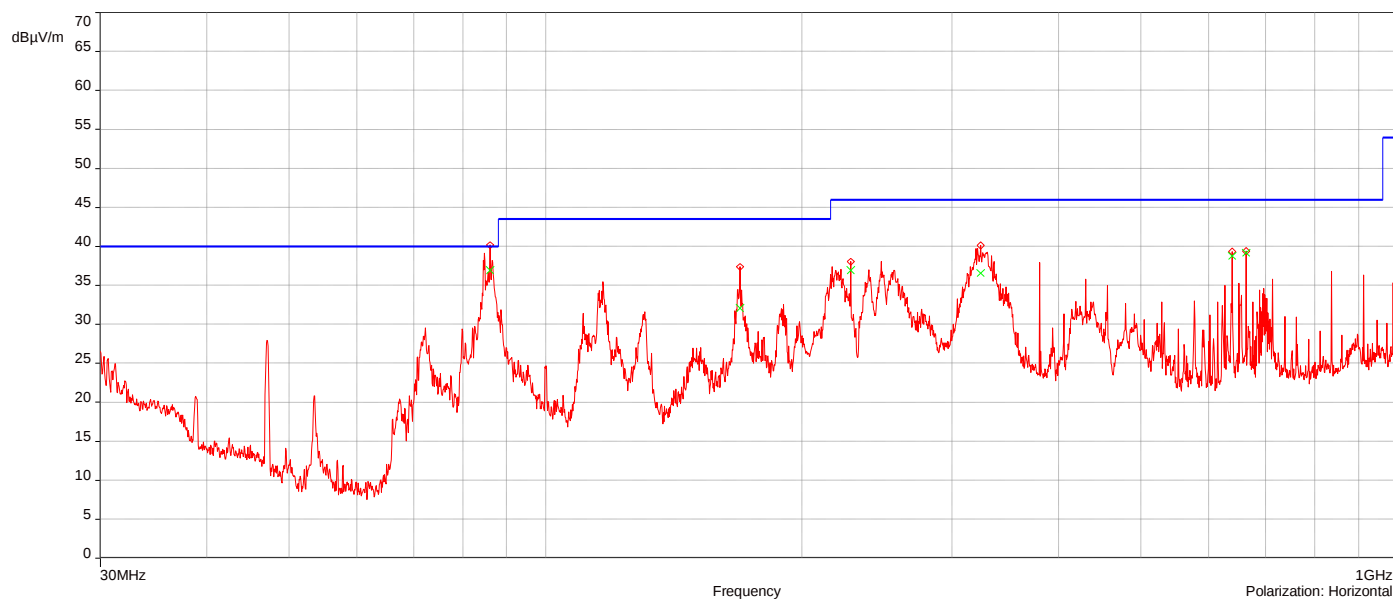


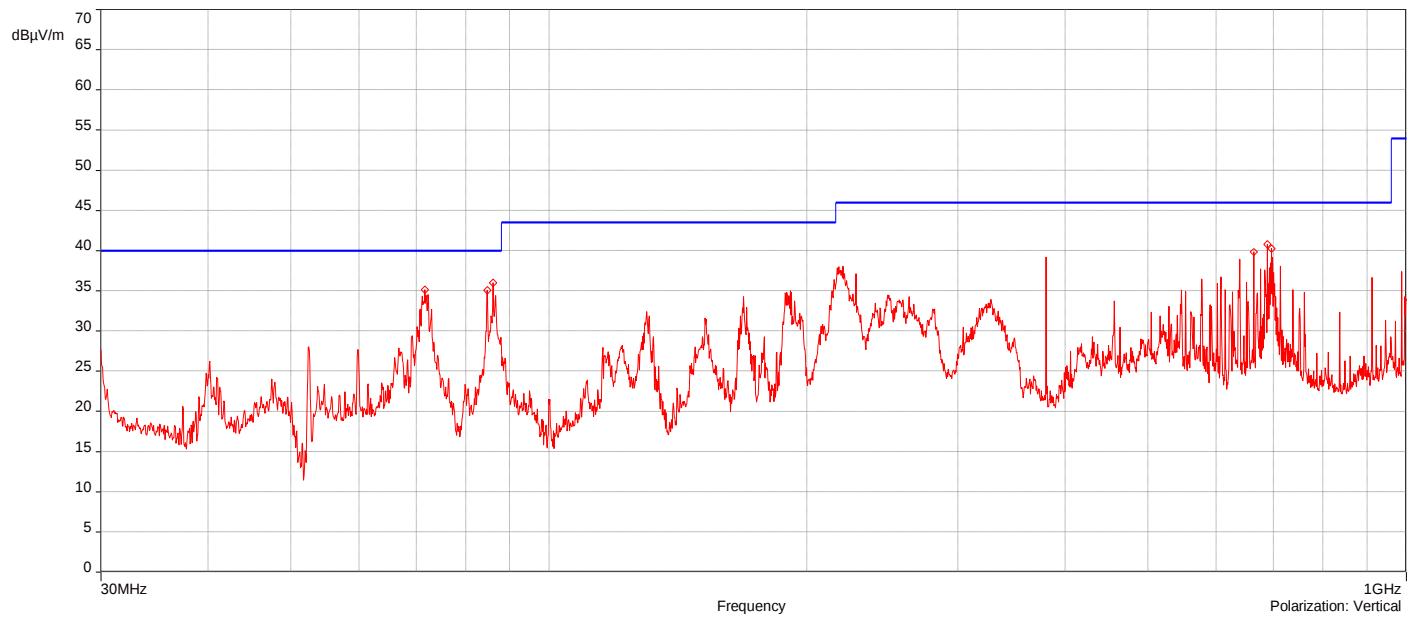
J24179#1_2.4G_802.11n_MCS0_Ch 6_30MHz-1GHz

12/19/2024 15:18:10

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	85.977999MHz	36.96	-16.49	40.00	-3.04	3.50	7.10	Horizontal	Passed
2.	168.94641MHz	32.05	-17.65	43.50	-11.45	2.00	0.10	Horizontal	Passed
3.	228.00576MHz	36.92	-16.31	46.00	-9.08	1.50	204.10	Horizontal	Passed
4.	323.92729MHz	36.62	-13.06	46.00	-9.38	1.00	275.90	Horizontal	Passed
5.	639.02465MHz	38.81	-6.91	46.00	-7.19	1.50	291.90	Horizontal	Passed
6.	663.56139MHz	39.22	-6.50	46.00	-6.78	1.50	62.90	Horizontal	Passed

Overall Graphs:





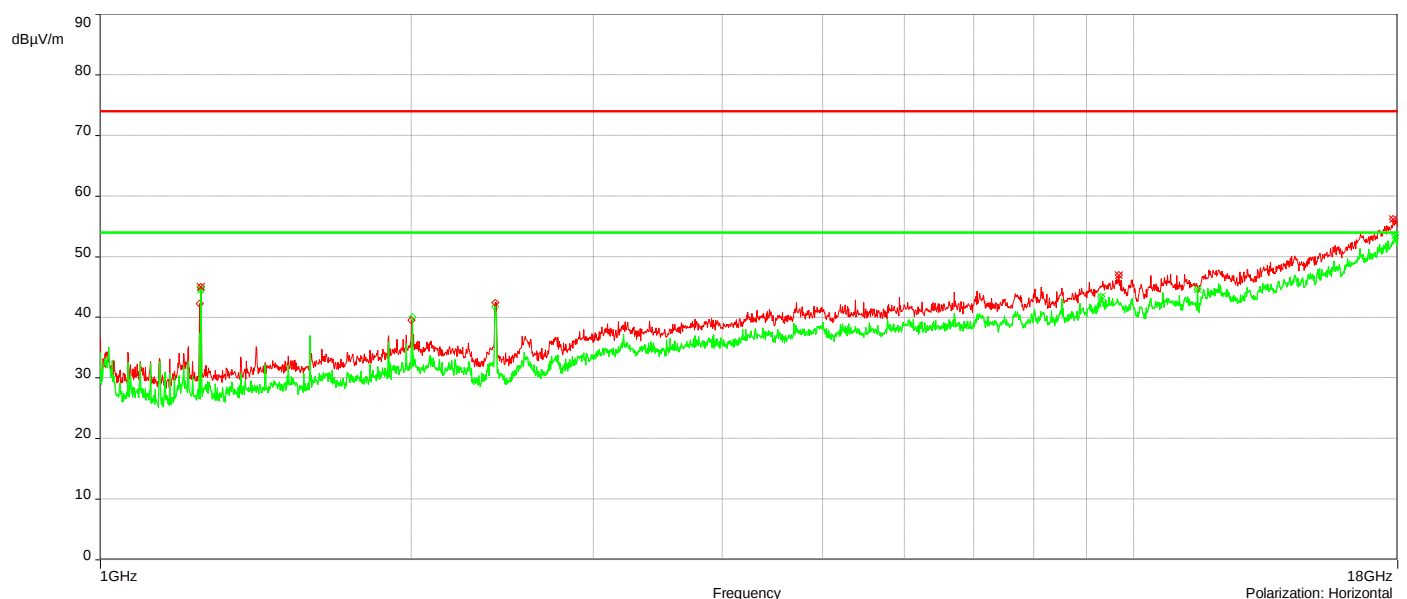
J24179#1_2.4G_802.11b_1Mbps_Ch 1_1-18GHz

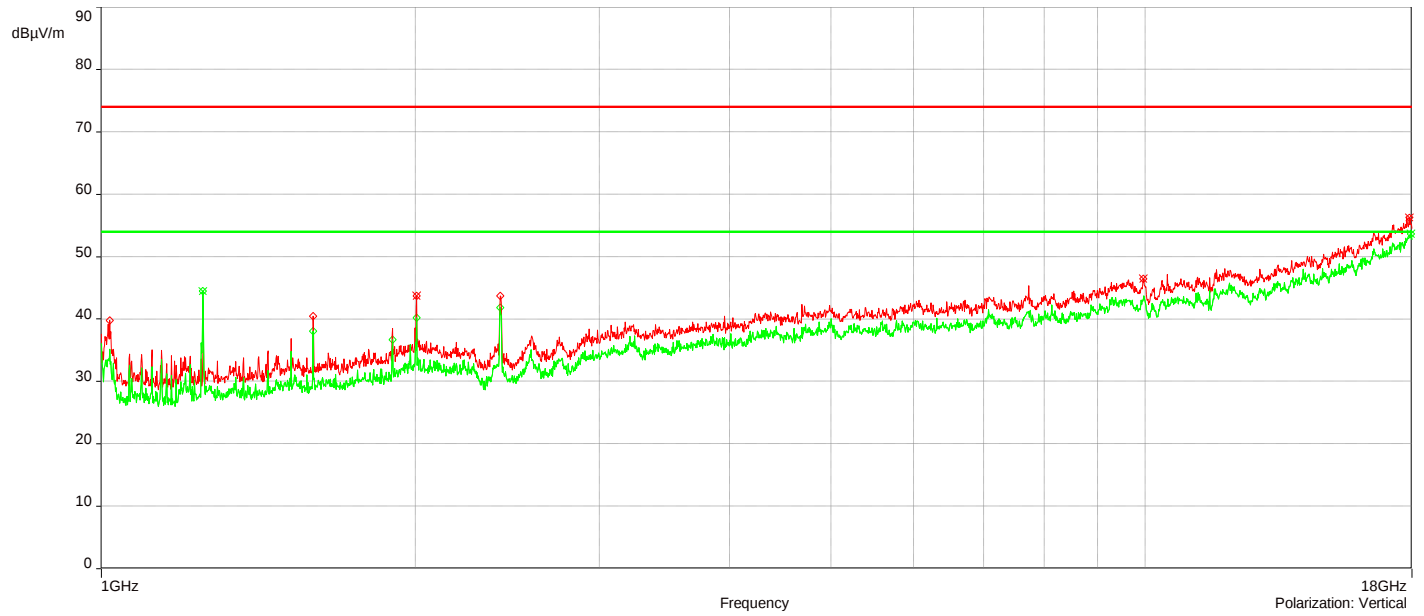
12/5/2024 17:53:03

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.0040295GHz	43.76	-2.14	74.00	-30.24	3.00	197.10	Vertical	Passed
2.	9.9577635GHz	46.43	11.13	74.00	-27.57	3.00	359.90	Vertical	Passed
3.	17.887997GHz	56.33	21.59	74.00	-17.67	3.00	130.70	Vertical	Passed
4.	1.2510074GHz	45.00	-7.52	74.00	-29.00	3.50	248.00	Horizontal	Passed
5.	9.6747551GHz	47.00	11.00	74.00	-27.00	4.00	276.70	Horizontal	Passed
6.	17.812494GHz	56.24	21.39	74.00	-17.76	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.	1.2510074GHz	44.45	-7.66	54.00	-9.55	3.50	359.90	Vertical	Passed
2.	17.962499GHz	52.48	21.70	54.00	-1.52	4.00	0.10	Vertical	Passed
3.	1.2510074GHz	44.59	-7.52	54.00	-9.41	3.50	248.00	Horizontal	Passed
4.	9.3017442GHz	43.45	9.88	54.00	-10.55	3.00	359.90	Horizontal	Passed
5.	11.52731GHz	44.68	11.02	54.00	-9.32	3.00	359.90	Horizontal	Passed
6.	17.887997GHz	53.00	21.69	54.00	-1.00	3.00	359.90	Horizontal	Passed

Overall Graphs:





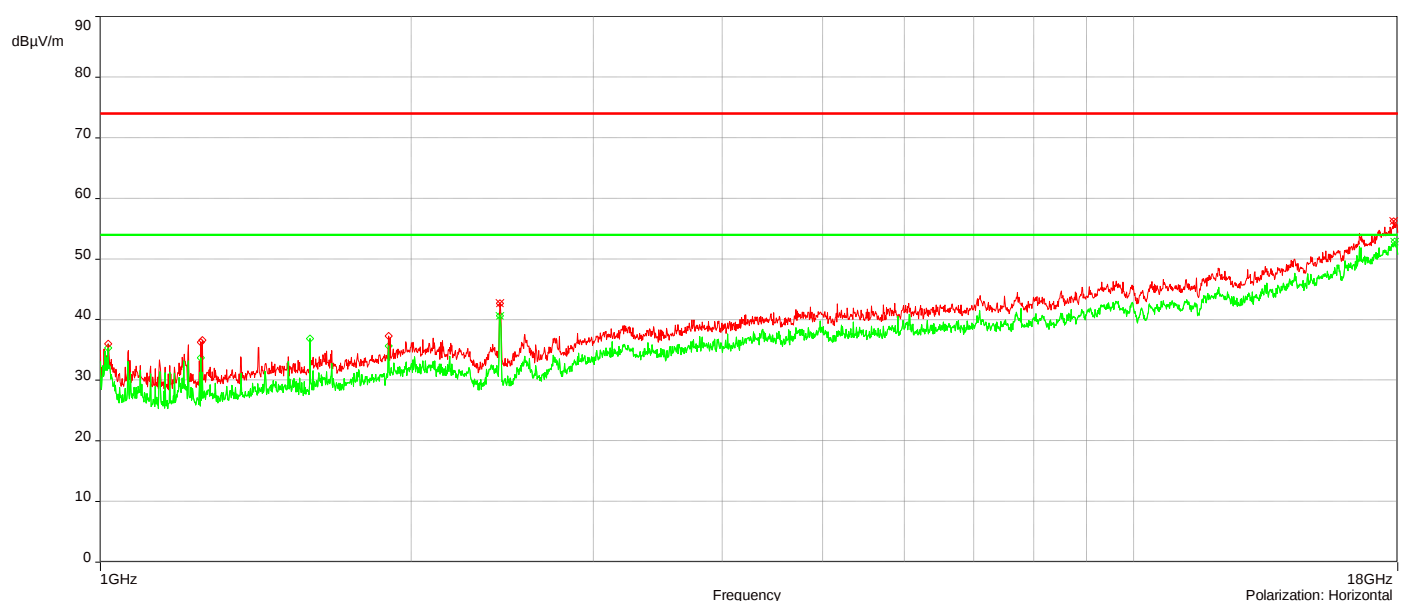
J24179#1_2.4G_802.11b_1Mbps_Ch 6_1-18GHz

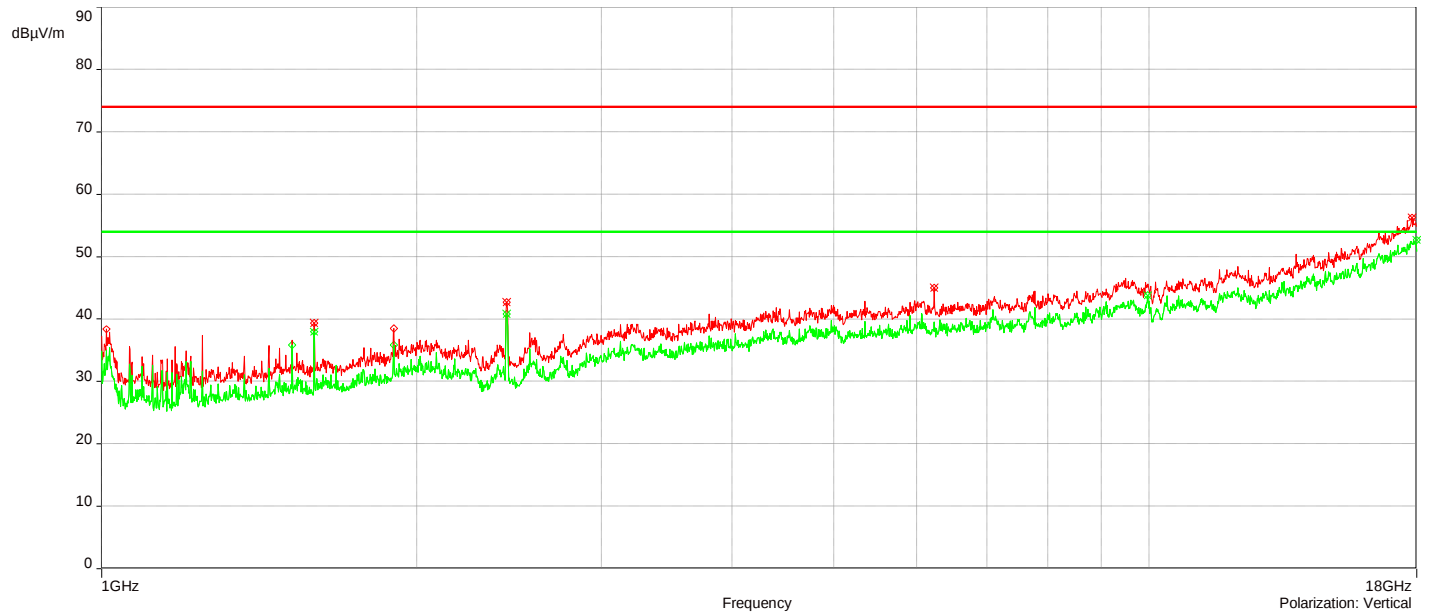
12/5/2024 16:11:35

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	1.5960175GHz	39.36	-5.41	74.00	-34.64	2.00	9.80	Vertical	Passed
2.	2.4360422GHz	42.71	-1.18	74.00	-31.29	1.00	112.70	Vertical	Passed
3.	6.2321539GHz	44.97	6.49	74.00	-29.03	3.00	260.50	Vertical	Passed
4.	17.804494GHz	56.27	21.36	74.00	-17.73	3.50	346.70	Vertical	Passed
5.	2.4360422GHz	42.70	-1.23	74.00	-31.30	1.50	359.90	Horizontal	Passed
6.	17.830495GHz	56.26	21.53	74.00	-17.74	1.50	284.10	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	1.5960175GHz	37.97	-5.41	54.00	-16.03	2.00	9.80	Vertical	Passed
2.	2.4360422GHz	40.81	-1.18	54.00	-13.19	1.00	112.70	Vertical	Passed
3.	9.9582635GHz	43.82	11.14	54.00	-10.18	1.50	3.70	Vertical	Passed
4.	17.999GHz	52.67	22.46	54.00	-1.33	3.50	0.10	Vertical	Passed
5.	2.4345422GHz	40.62	-1.25	54.00	-13.38	1.00	359.90	Horizontal	Passed
6.	17.885497GHz	52.87	21.69	54.00	-1.13	4.00	155.50	Horizontal	Passed

Overall Graphs:





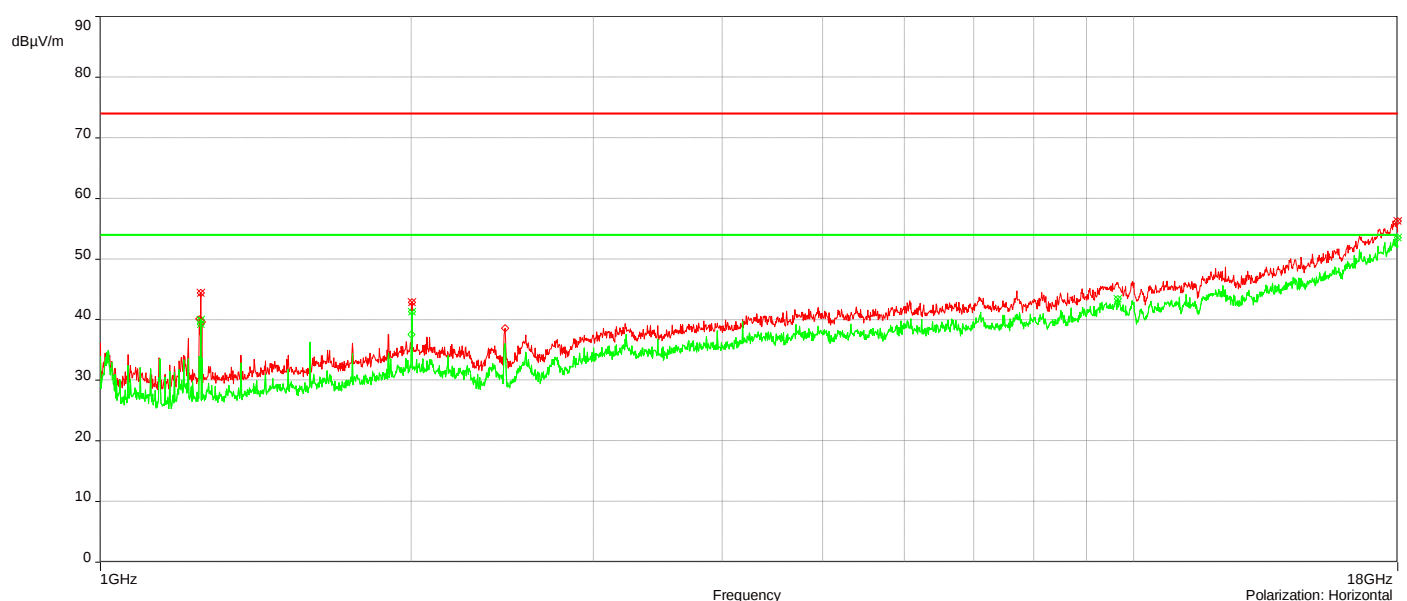
J24179#1_2.4G_802.11b_1Mbps_Ch 11_1-18GHz

12/5/2024 16:52:06

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	1.9990294GHz	41.17	-2.17	74.00	-32.83	2.00	166.60	Vertical	Passed
2.	9.4607488GHz	46.82	10.16	74.00	-27.18	2.00	166.60	Vertical	Passed
3.	17.937498GHz	56.13	21.51	74.00	-17.87	1.50	273.70	Vertical	Passed
4.	1.2500074GHz	44.37	-7.53	74.00	-29.63	4.00	33.80	Horizontal	Passed
5.	2.0025295GHz	42.84	-2.35	74.00	-31.16	3.00	232.30	Horizontal	Passed
6.	17.9985GHz	56.34	22.40	74.00	-17.66	1.50	359.90	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	17.842495GHz	52.74	21.51	54.00	-1.26	2.00	52.20	Vertical	Passed
2.	1.2500074GHz	39.97	-7.53	54.00	-14.03	4.00	33.80	Horizontal	Passed
3.	1.2510074GHz	39.30	-7.52	54.00	-14.70	2.00	91.50	Horizontal	Passed
4.	2.0025295GHz	41.36	-2.35	54.00	-12.64	3.00	232.30	Horizontal	Passed
5.	9.6487544GHz	43.48	10.91	54.00	-10.52	2.00	265.30	Horizontal	Passed
6.	17.995GHz	53.41	22.32	54.00	-0.59	1.00	358.00	Horizontal	Passed

Overall Graphs:





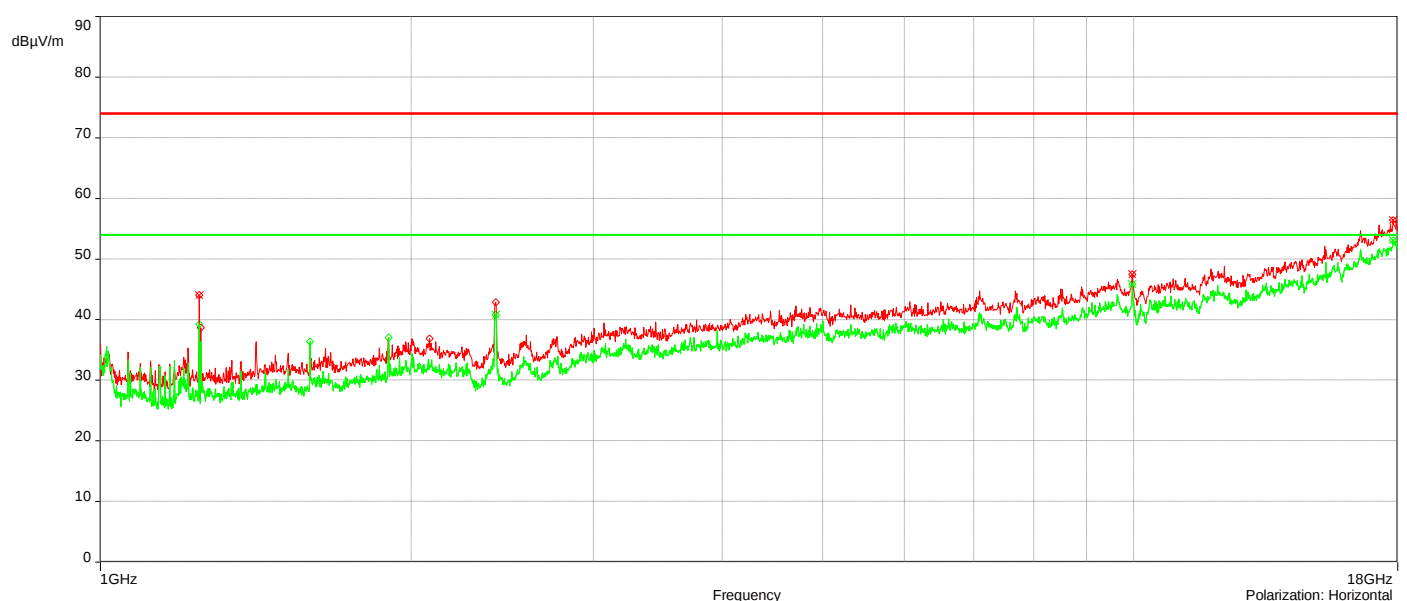
J24179#1_2.4G_802.11n_MCS0_Ch 1_1-18GHz

12/5/2024 18:35:20

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.4130416GHz	42.99	-1.42	74.00	-31.01	1.00	183.00	Vertical	Passed
2.	9.634754GHz	46.58	10.79	74.00	-27.42	1.00	230.50	Vertical	Passed
3.	17.818495GHz	56.02	21.41	74.00	-17.98	2.50	2.30	Vertical	Passed
4.	1.2470073GHz	44.03	-7.55	74.00	-29.97	4.00	230.50	Horizontal	Passed
5.	9.9622636GHz	47.51	11.05	74.00	-26.49	2.50	342.30	Horizontal	Passed
6.	17.812494GHz	56.45	21.39	74.00	-17.55	3.50	287.90	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.4110415GHz	41.16	-1.43	54.00	-12.84	1.50	82.40	Vertical	Passed
2.	9.9622636GHz	45.91	11.10	54.00	-8.09	2.50	359.90	Vertical	Passed
3.	17.812494GHz	52.91	21.39	54.00	-1.09	3.50	359.90	Vertical	Passed
4.	2.4135416GHz	40.85	-1.49	54.00	-13.15	1.00	359.90	Horizontal	Passed
5.	9.9622636GHz	45.86	11.05	54.00	-8.14	2.50	342.30	Horizontal	Passed
6.	17.812494GHz	52.89	21.39	54.00	-1.11	3.50	287.90	Horizontal	Passed

Overall Graphs:





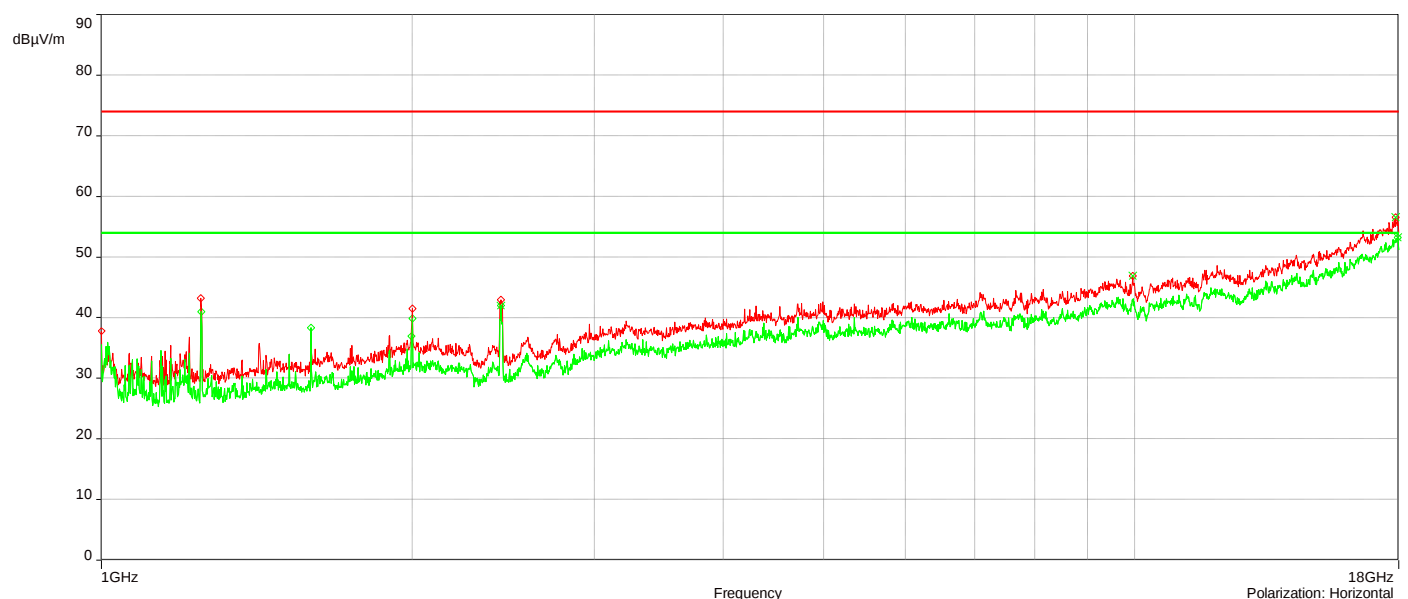
J24179#1_2.4G_802.11n_MCS0_Ch 6_1-18GHz

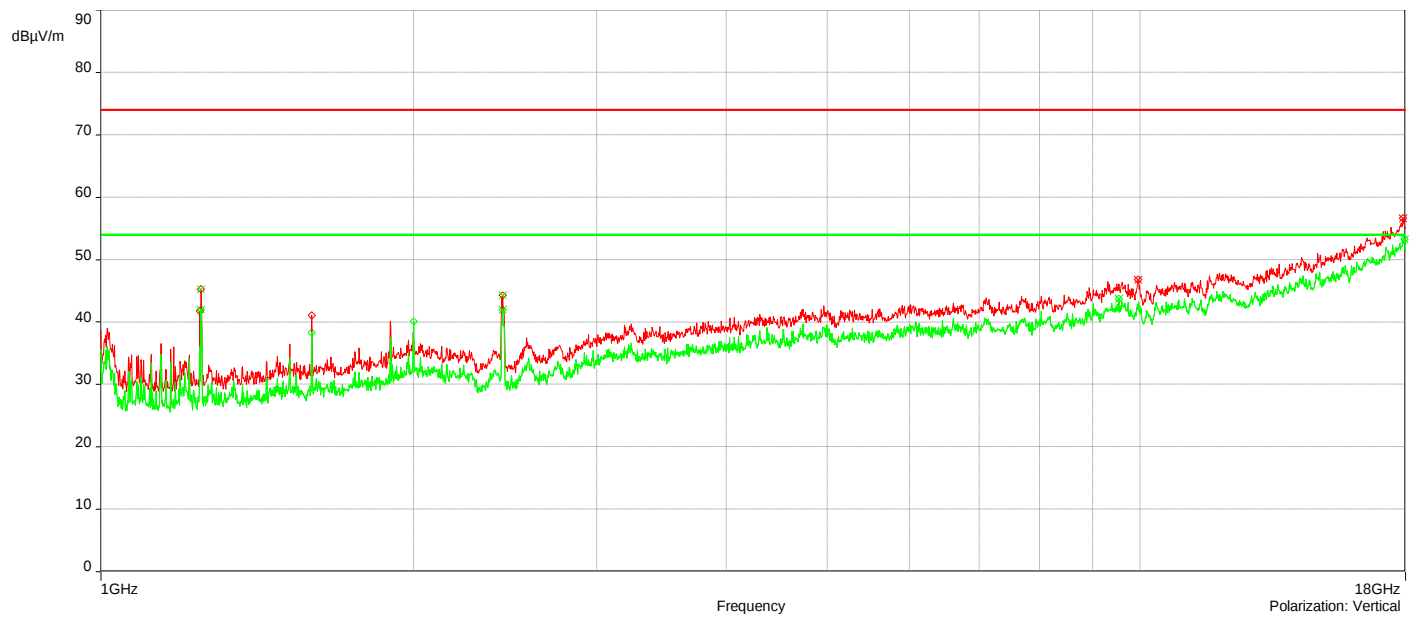
12/5/2024 19:37:10

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	1.2480073GHz	45.29	-7.67	74.00	-28.71	2.50	42.30	Vertical	Passed
2.	2.4360422GHz	44.30	-1.18	74.00	-29.70	1.00	86.20	Vertical	Passed
3.	9.9482632GHz	46.79	11.04	74.00	-27.21	4.00	0.00	Vertical	Passed
4.	17.889997GHz	56.67	21.59	74.00	-17.33	4.00	0.00	Vertical	Passed
5.	9.9567634GHz	46.91	11.08	74.00	-27.09	2.50	359.90	Horizontal	Passed
6.	17.873496GHz	56.57	21.69	74.00	-17.43	2.00	359.90	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	1.2480073GHz	42.05	-7.67	54.00	-11.95	2.50	42.30	Vertical	Passed
2.	2.4345422GHz	42.04	-1.22	54.00	-11.96	1.00	95.00	Vertical	Passed
3.	9.533751GHz	43.74	10.11	54.00	-10.26	2.50	6.70	Vertical	Passed
4.	17.966499GHz	52.87	21.76	54.00	-1.13	1.50	0.10	Vertical	Passed
5.	2.4345422GHz	42.01	-1.25	54.00	-11.99	1.00	0.10	Horizontal	Passed
6.	17.966499GHz	52.56	21.73	54.00	-1.44	1.50	93.40	Horizontal	Passed

Overall Graphs:





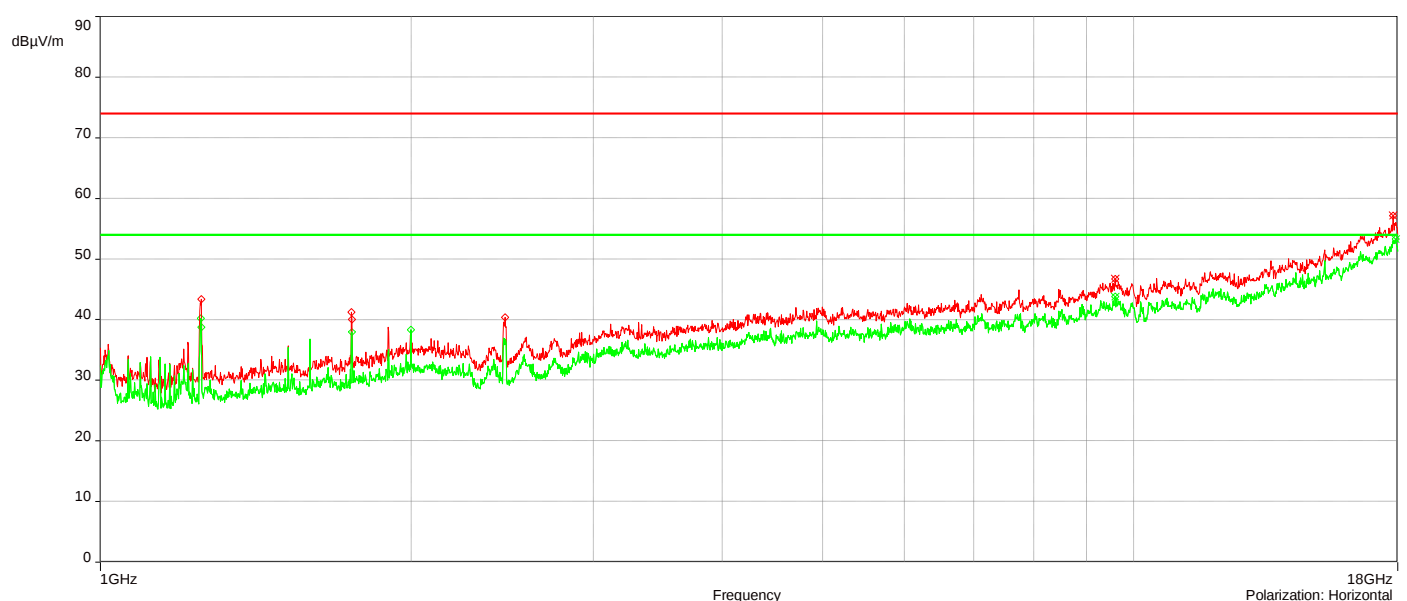
J24179#1_2.4G_802.11n_MCS0_Ch 11_1-18GHz

12/5/2024 19:57:02

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	1.9980294GHz	44.76	-2.17	74.00	-29.24	1.50	200.40	Vertical	Passed
2.	2.0025295GHz	43.86	-2.15	74.00	-30.14	1.50	200.40	Vertical	Passed
3.	9.4252478GHz	46.72	9.99	74.00	-27.28	4.00	359.90	Vertical	Passed
4.	17.833995GHz	56.26	21.48	74.00	-17.74	1.50	1.80	Vertical	Passed
5.	9.5907527GHz	46.68	10.34	74.00	-27.32	1.00	53.80	Horizontal	Passed
6.	17.820495GHz	57.18	21.45	74.00	-16.82	3.50	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.	1.2505074GHz	41.88	-7.66	54.00	-12.12	2.50	154.70	Vertical	Passed
2.	9.4617489GHz	43.57	10.16	54.00	-10.43	2.50	59.90	Vertical	Passed
3.	11.837819GHz	45.68	12.12	54.00	-8.32	1.50	355.80	Vertical	Passed
4.	17.927998GHz	52.60	21.54	54.00	-1.40	4.00	137.70	Vertical	Passed
5.	9.5907527GHz	43.80	10.34	54.00	-10.20	1.00	53.80	Horizontal	Passed
6.	17.927998GHz	52.82	21.56	54.00	-1-18	4.00	0.00	Horizontal	Passed

Overall Graphs:





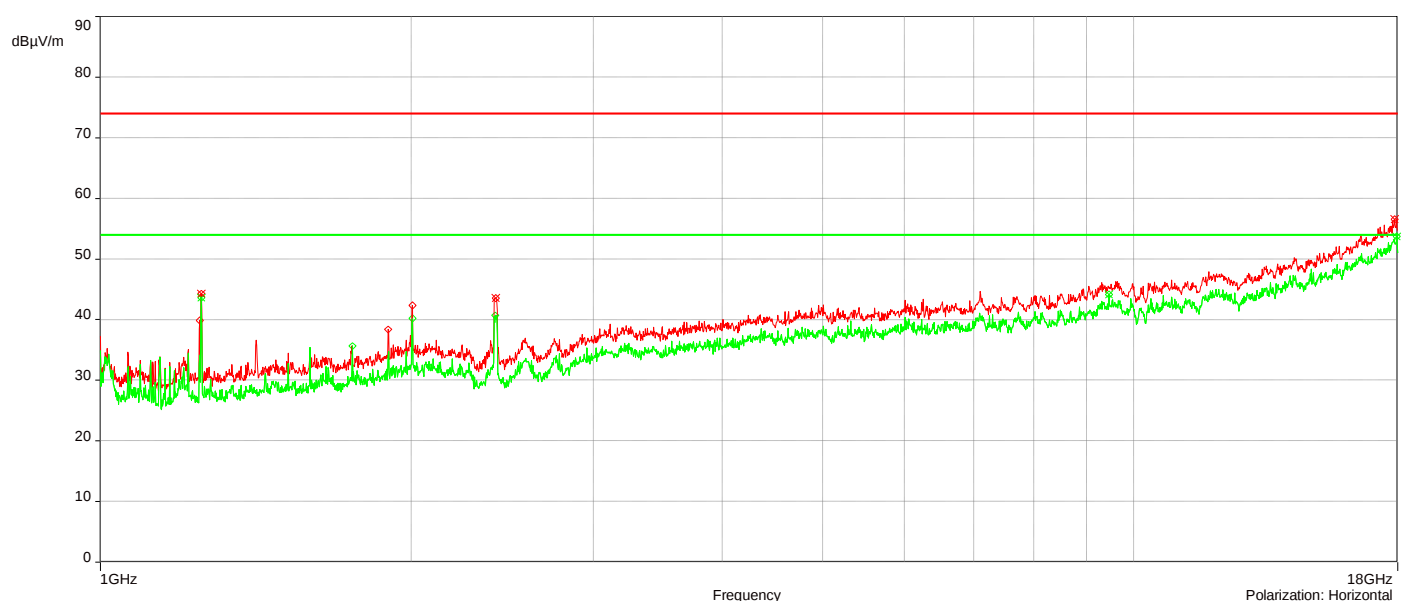
J24179#1_2.4G_802.11g_6Mbps_Ch 1_1-18GHz

12/5/2024 20:15:43

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.4095415GHz	44.66	-1.43	74.00	-29.34	1.50	102.40	Vertical	Passed
2.	9.9327627GHz	46.95	10.85	74.00	-27.05	3.00	161.50	Vertical	Passed
3.	17.797494GHz	56.12	21.33	74.00	-17.88	3.00	217.70	Vertical	Passed
4.	1.2515074GHz	44.33	-7.52	74.00	-29.67	3.50	337.80	Horizontal	Passed
5.	2.4140416GHz	43.55	-1.48	74.00	-30.45	1.50	79.10	Horizontal	Passed
6.	17.871496GHz	56.59	21.68	74.00	-17.41	2.00	282.10	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	1.2515074GHz	43.47	-7.65	54.00	-10.53	3.50	0.00	Vertical	Passed
2.	9.4562487GHz	44.18	10.16	54.00	-9.82	4.00	105.20	Vertical	Passed
3.	17.960499GHz	52.30	21.66	54.00	-1.70	1.00	359.90	Vertical	Passed
4.	1.2515074GHz	43.60	-7.52	54.00	-10.40	3.50	337.80	Horizontal	Passed
5.	9.4562487GHz	44.15	10.13	54.00	-9.85	4.00	0.00	Horizontal	Passed
6.	17.960499GHz	52.74	21.63	54.00	-1.26	1.00	359.90	Horizontal	Passed

Overall Graphs:





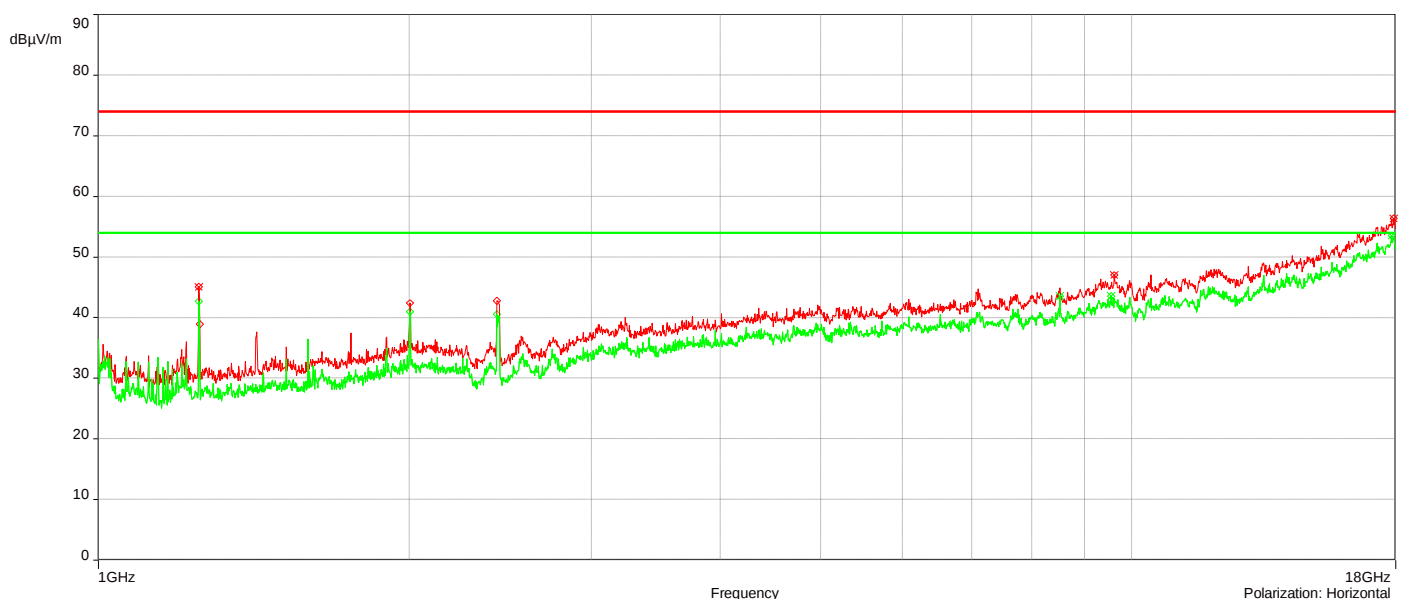
J24179#1_2.4G_802.11g_6Mbps_Ch 6_1-18GHz

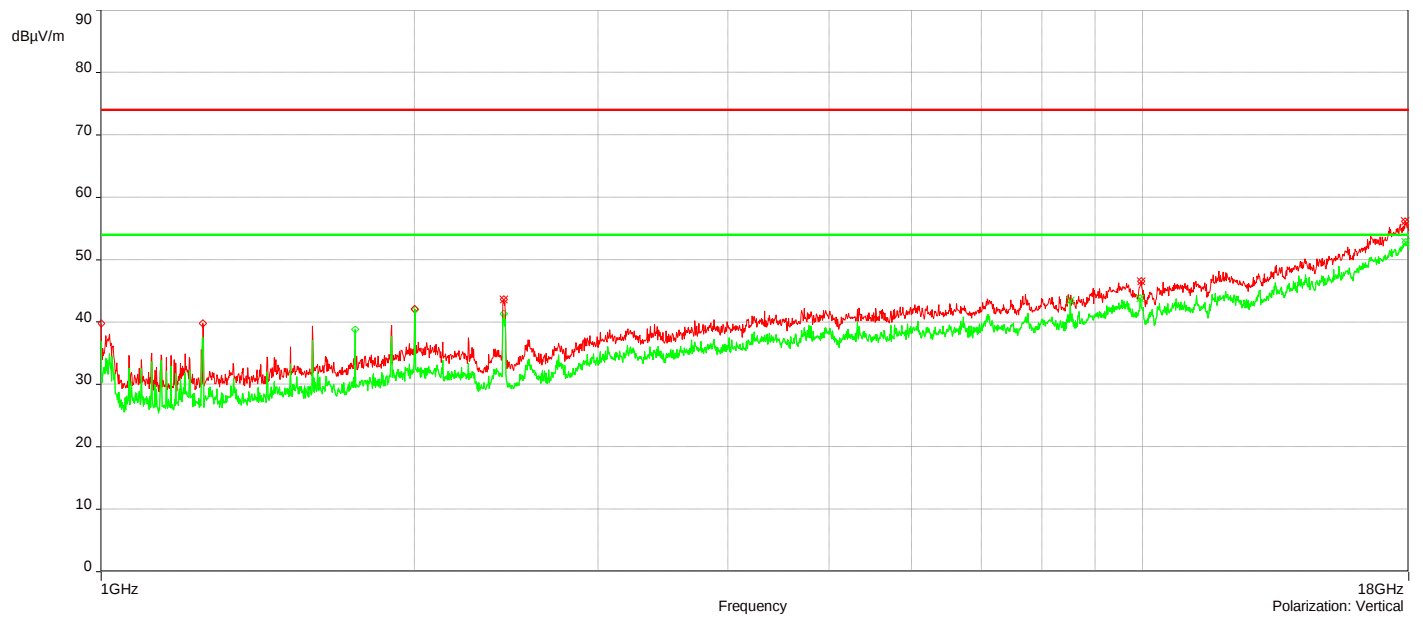
12/5/2024 20:40:50

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.4355422GHz	43.65	-1.20	74.00	-30.35	1.00	103.30	Vertical	Passed
2.	9.9627636GHz	46.51	11.09	74.00	-27.49	2.50	165.00	Vertical	Passed
3.	17.855996GHz	56.09	21.55	74.00	-17.91	1.00	340.20	Vertical	Passed
4.	1.2505074GHz	45.10	-7.53	74.00	-28.90	2.00	214.30	Horizontal	Passed
5.	9.6147534GHz	47.05	10.58	74.00	-26.95	3.00	33.50	Horizontal	Passed
6.	17.927498GHz	56.38	21.56	74.00	-17.62	1.00	57.10	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	8.5207212GHz	43.51	9.46	54.00	-10.49	1.50	359.90	Vertical	Passed
2.	9.9457631GHz	43.83	11.01	54.00	-10.17	2.50	174.40	Vertical	Passed
3.	17.875496GHz	52.83	21.57	54.00	-1.17	1.50	359.90	Vertical	Passed
4.	8.5207212GHz	43.54	9.50	54.00	-10.46	1.50	175.10	Horizontal	Passed
5.	9.5507515GHz	43.56	10.10	54.00	-10.44	1.50	285.70	Horizontal	Passed
6.	17.833495GHz	53.32	21.55	54.00	-0.68	2.00	0.10	Horizontal	Passed

Overall Graphs:





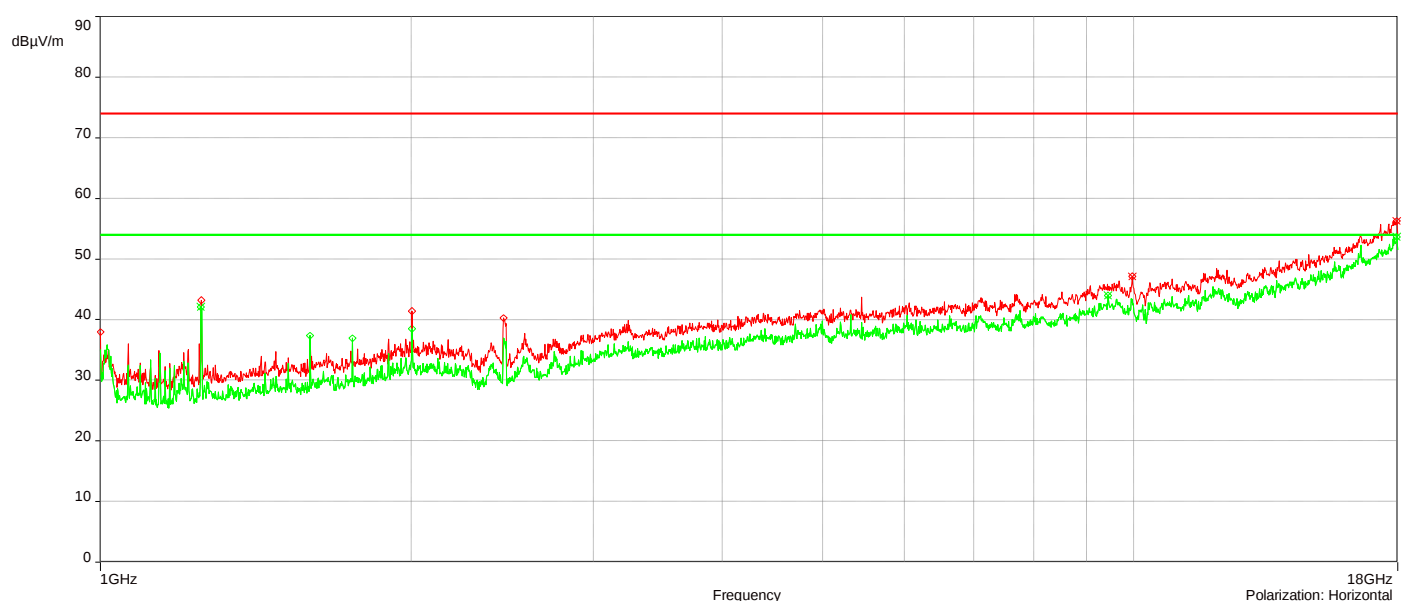
J24179#1_2.4G_802.11g_6Mbps_Ch 11_1-18GHz

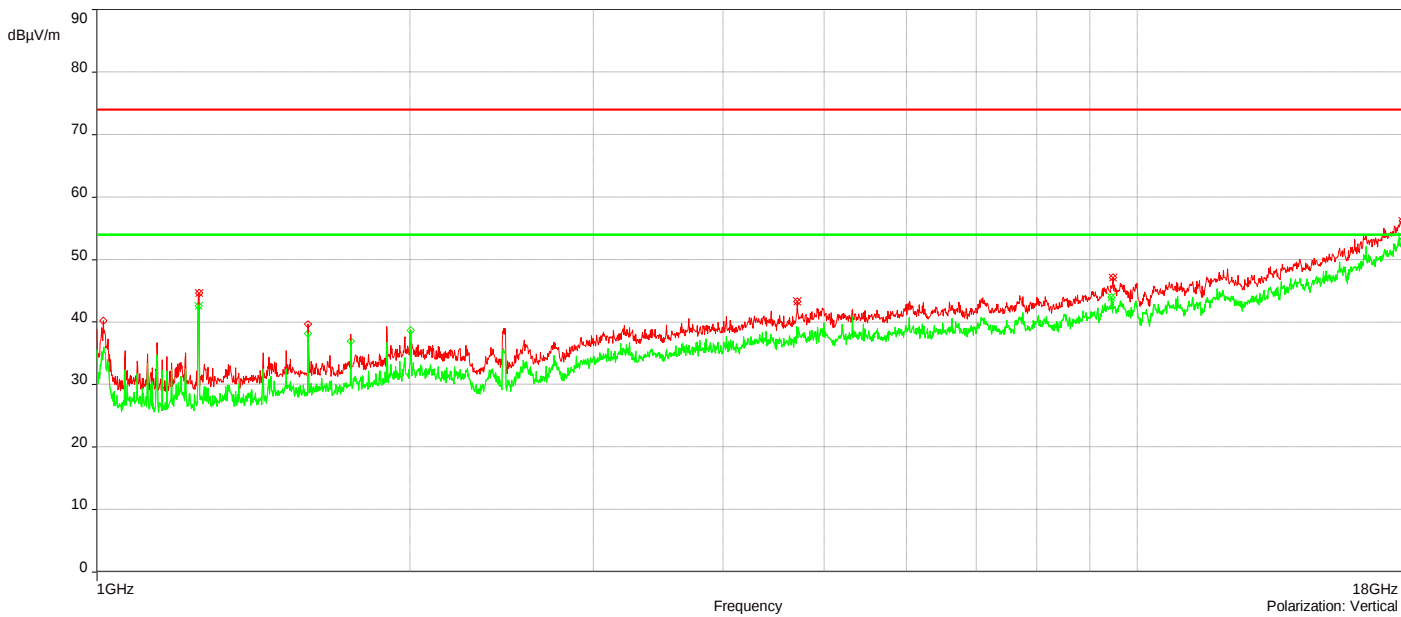
12/5/2024 21:12:50

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	1.2530074GHz	44.68	-7.63	74.00	-29.32	1.00	301.50	Vertical	Passed
2.	4.7116092GHz	43.30	4.93	74.00	-30.70	3.50	262.70	Vertical	Passed
3.	9.465749GHz	47.16	10.16	74.00	-26.84	3.00	359.90	Vertical	Passed
4.	17.974999GHz	56.19	21.91	74.00	-17.81	2.00	359.90	Vertical	Passed
5.	9.9587635GHz	47.12	11.10	74.00	-26.88	3.50	158.10	Horizontal	Passed
6.	17.962499GHz	56.27	21.66	74.00	-17.73	1.00	273.60	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	1.2520074GHz	42.64	-7.64	54.00	-11.36	3.50	32.10	Vertical	Passed
2.	9.4352481GHz	43.97	10.06	54.00	-10.03	1.00	18.90	Vertical	Passed
3.	17.957999GHz	52.47	21.62	54.00	-1.53	2.00	177.80	Vertical	Passed
4.	1.2510074GHz	42.06	-7.52	54.00	-11.94	4.00	0.10	Horizontal	Passed
5.	9.4352481GHz	43.96	10.04	54.00	-10.04	1.00	0.10	Horizontal	Passed
6.	17.957999GHz	52.49	21.59	54.00	-1.51	2.00	0.10	Horizontal	Passed

Overall Graphs:





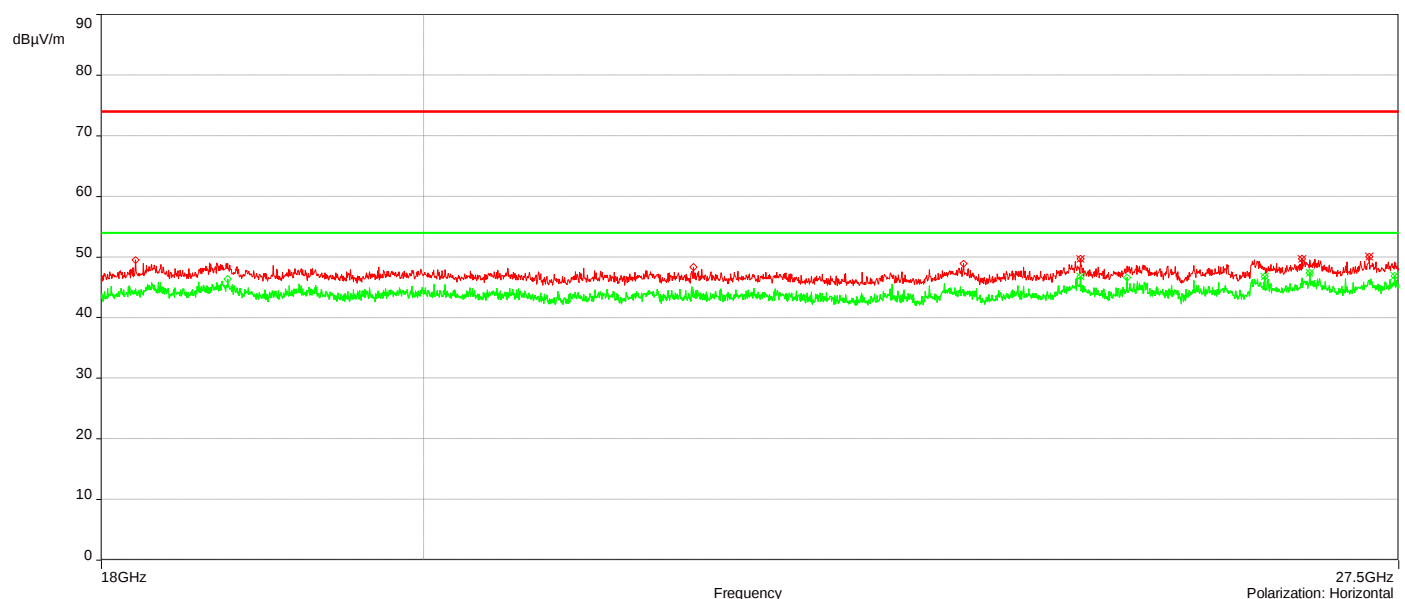
J24179#1_2.4G_802.11b_1Mbps_Ch 6_18-27.5GHz

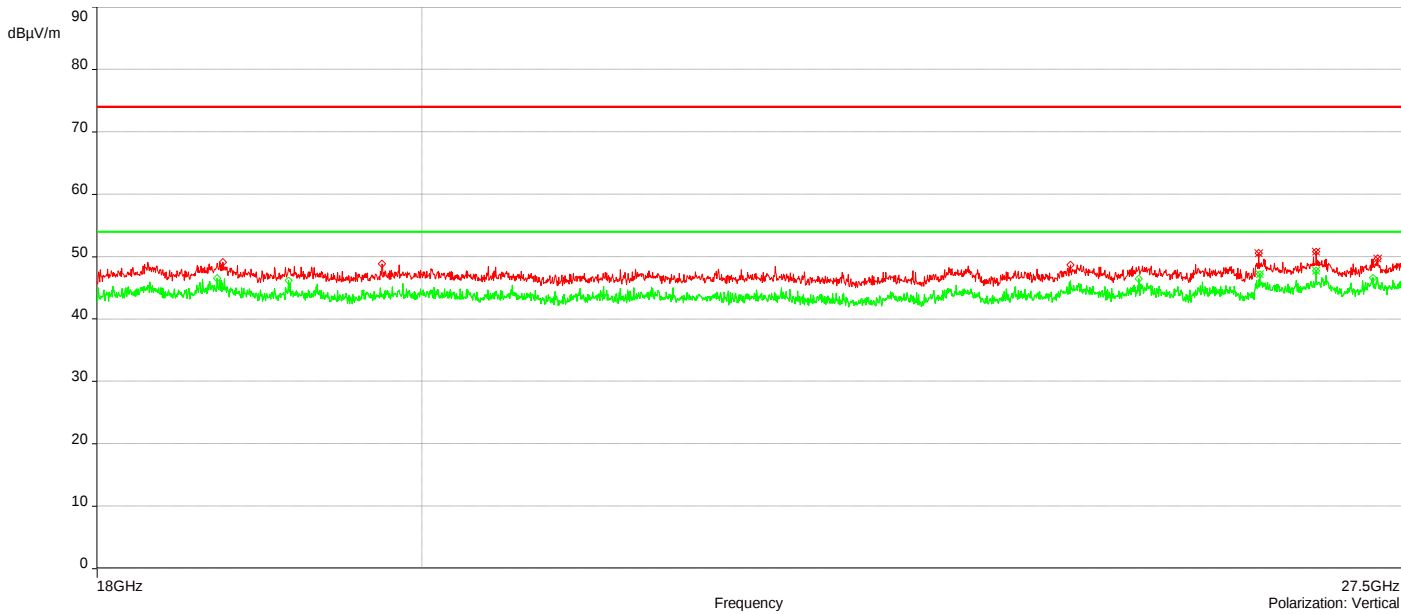
12/16/2024 15:27:34

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	26.229311GHz	50.58	1.17	74.00	-23.42	2.61	157.40	Vertical	Passed
2.	26.720486GHz	50.79	1.71	74.00	-23.21	2.57	89.90	Vertical	Passed
3.	27.260113GHz	49.73	1.64	74.00	-24.27	3.85	224.90	Vertical	Passed
4.	24.782864GHz	49.72	1.33	74.00	-24.28	2.91	44.90	Horizontal	Passed
5.	26.645432GHz	49.71	1.65	74.00	-24.29	2.61	179.90	Horizontal	Passed
6.	27.235412GHz	50.03	1.58	74.00	-23.97	3.44	134.90	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	26.236912GHz	47.23	1.19	54.00	-6.77	1.52	157.40	Vertical	Passed
2.	26.720486GHz	47.71	1.71	54.00	-6.29	2.57	89.90	Vertical	Passed
3.	24.782864GHz	46.76	1.33	54.00	-7.24	2.91	44.90	Horizontal	Passed
4.	26.321941GHz	46.79	1.17	54.00	-7.21	3.97	224.90	Horizontal	Passed
5.	26.710036GHz	47.38	1.70	54.00	-6.62	1.54	292.40	Horizontal	Passed
6.	27.461048GHz	46.86	1.79	54.00	-7.14	2.88	0.00	Horizontal	Passed

Overall Graphs:





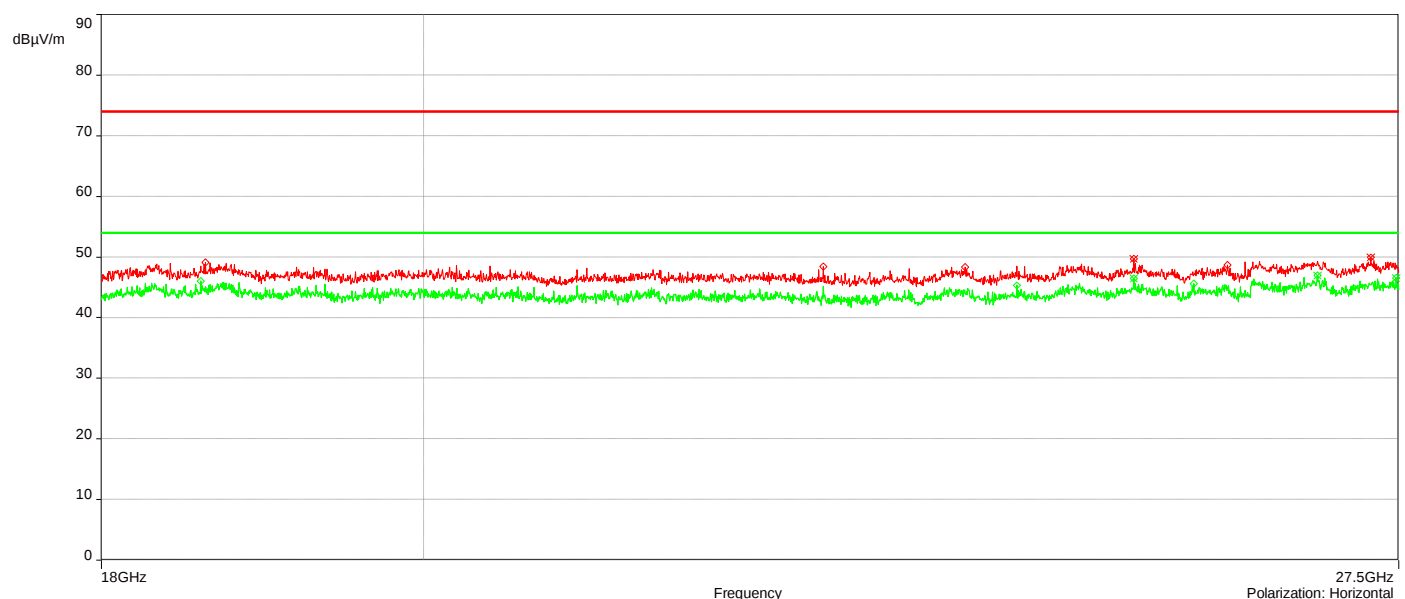
J24179#1_2.4G_802.11g_6Mbps_Ch 6_18-27.5GHz

12/16/2024 15:51:37

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	18.281214GHz	49.76	1.56	74.00	-24.24	1.00	45.20	Vertical	Passed
2.	24.722061GHz	49.18	1.60	74.00	-24.82	3.71	270.10	Vertical	Passed
3.	26.803615GHz	49.70	1.81	74.00	-24.30	2.10	180.10	Vertical	Passed
4.	27.231612GHz	49.77	1.57	74.00	-24.23	1.28	22.60	Vertical	Passed
5.	25.222261GHz	49.67	0.75	74.00	-24.33	2.61	202.50	Horizontal	Passed
6.	27.250138GHz	49.94	1.71	74.00	-24.06	3.02	202.50	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	25.291615GHz	46.83	1.22	54.00	-7.17	1.00	225.20	Vertical	Passed
2.	26.767038GHz	46.61	1.81	54.00	-7.39	1.81	157.70	Vertical	Passed
3.	27.448697GHz	46.45	1.84	54.00	-7.55	2.65	315.10	Vertical	Passed
4.	25.222261GHz	46.44	0.75	54.00	-7.56	2.61	202.50	Horizontal	Passed
5.	26.779864GHz	46.96	1.77	54.00	-7.04	2.06	225.20	Horizontal	Passed
6.	27.475299GHz	46.53	1.72	54.00	-7.47	1.54	135.00	Horizontal	Passed

Overall Graphs:





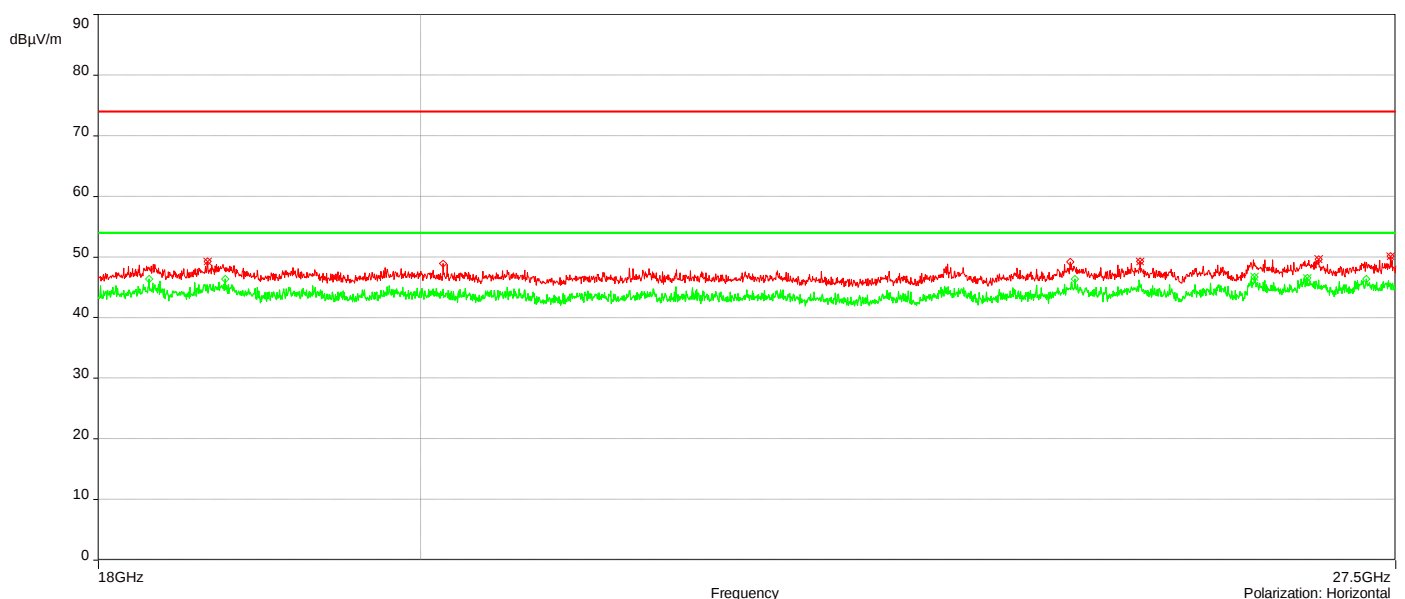
J24179#1_2.4G_802.11n_MCS0_Ch 6_18-27.5GHz

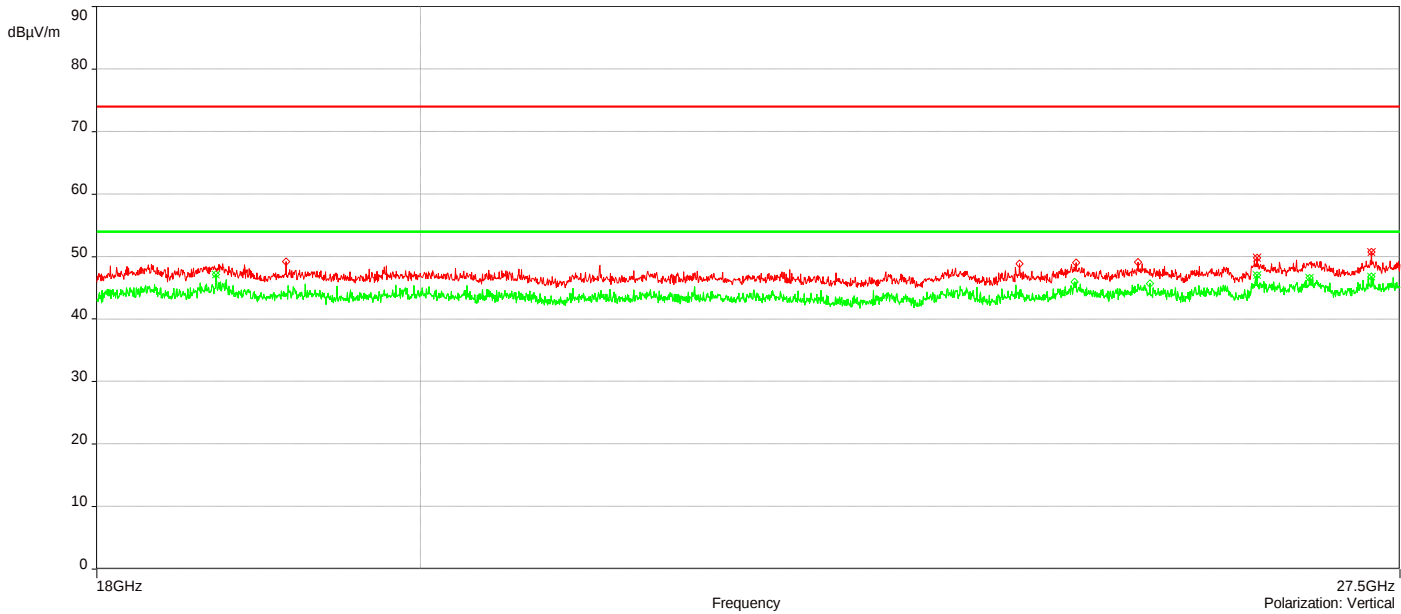
12/16/2024 16:15:26

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	26.251638GHz	49.79	1.23	74.00	-24.21	3.43	22.40	Vertical	Passed
2.	27.246812GHz	50.72	1.71	74.00	-23.28	3.97	247.40	Vertical	Passed
3.	18.653158GHz	49.32	0.17	74.00	-24.68	2.19	157.40	Horizontal	Passed
4.	25.29494GHz	49.24	1.26	74.00	-24.76	3.84	134.90	Horizontal	Passed
5.	26.816441GHz	49.60	1.75	74.00	-24.40	3.35	157.40	Horizontal	Passed
6.	27.454873GHz	50.14	1.81	74.00	-23.86	2.02	224.90	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	18.710636GHz	47.17	-0.26	54.00	-6.83	2.27	292.40	Vertical	Passed
2.	26.251638GHz	47.10	1.23	54.00	-6.90	3.43	22.40	Vertical	Passed
3.	26.70386GHz	46.65	1.74	54.00	-7.35	2.38	337.40	Vertical	Passed
4.	27.246812GHz	46.82	1.71	54.00	-7.18	3.97	247.40	Vertical	Passed
5.	26.259238GHz	46.69	1.22	54.00	-7.31	1.78	0.00	Horizontal	Passed
6.	26.714311GHz	46.53	1.69	54.00	-7.47	2.43	337.40	Horizontal	Passed

Overall Graphs:





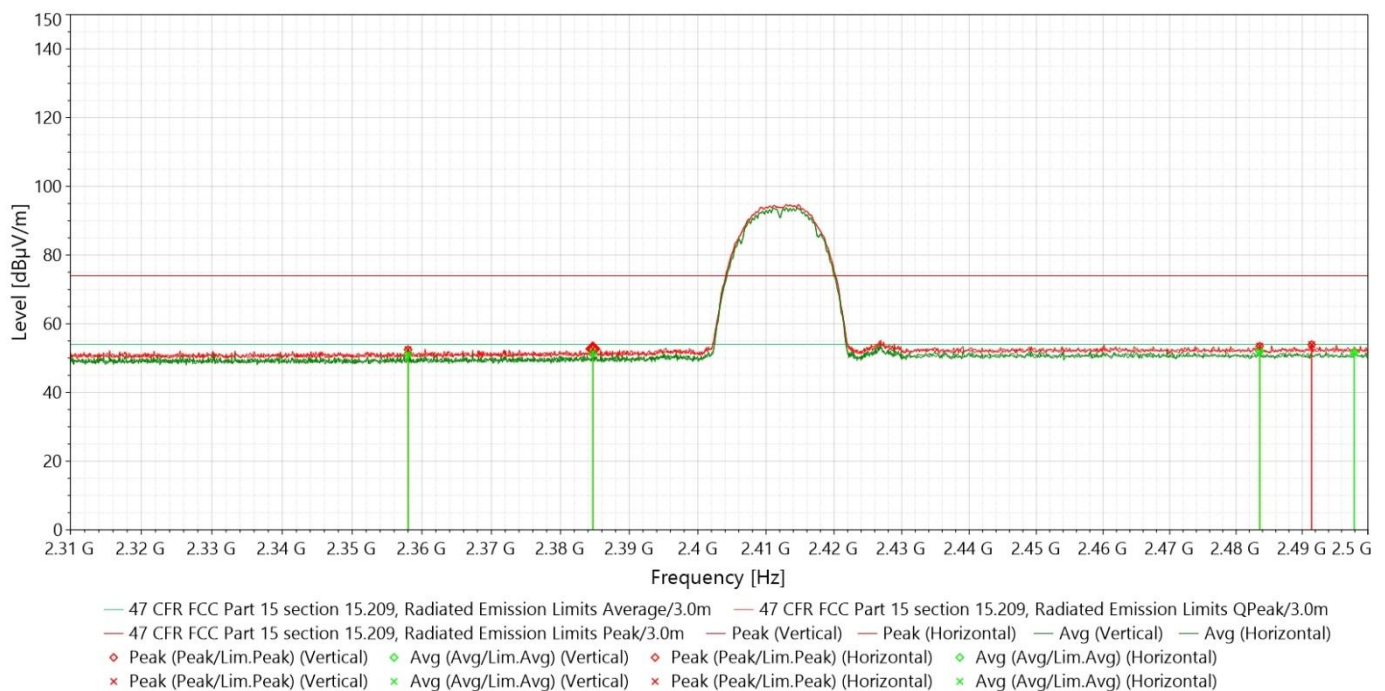
J24179#1_2.4G_Restricted Bandedge_802.11b_1Mbps_Ch 1

12/4/2024 21:02:07

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.3847074GHz	52.70	-2.45	74.00	-21.30	1.50	113.40	Vertical	Passed
2.	2.4914457GHz	53.93	-1.83	74.00	-20.07	1.00	269.60	Vertical	Passed
3.	2.3579999GHz	52.47	-2.71	74.00	-21.53	3.50	40.80	Horizontal	Passed
4.	2.4835568GHz	53.50	-1.87	74.00	-20.50	1.00	136.80	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.3847074GHz	32.45	-2.45	54.00	-21.55	1.50	113.40	Vertical	Passed
2.	2.4979099GHz	32.93	-1.85	54.00	-21.07	1.00	271.60	Vertical	Passed
3.	2.3579999GHz	32.02	-2.71	54.00	-21.98	3.50	40.80	Horizontal	Passed
4.	2.4835568GHz	33.03	-1.87	54.00	-20.97	1.00	136.80	Horizontal	Passed

Overall Graphs:



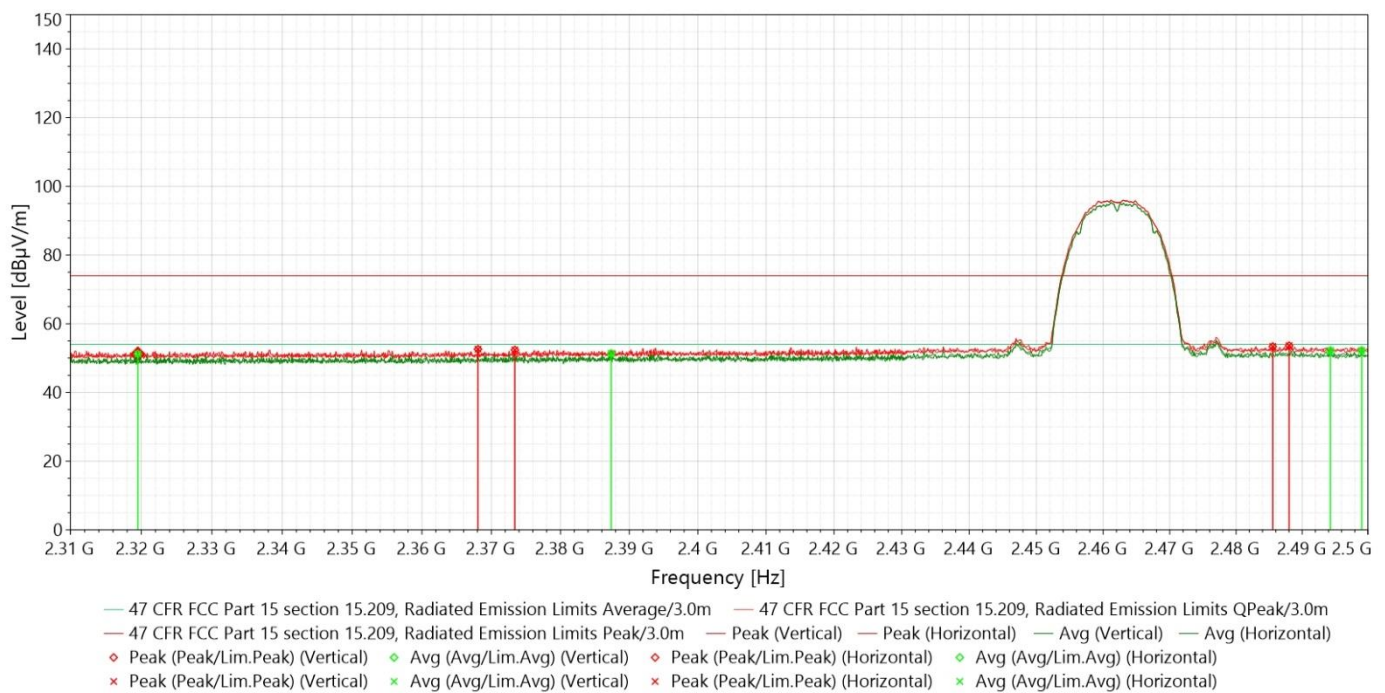
J24179#1_2.4G_Restricted Bandedge_802.11b_1Mbps_Ch 11

12/4/2024 21:29:11

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.3733967GHz	52.40	-2.52	74.00	-21.60	4.00	0.10	Vertical	Passed
2.	2.4855528GHz	53.39	-1.85	74.00	-20.61	2.00	0.10	Vertical	Passed
3.	2.368074GHz	52.62	-2.56	74.00	-21.38	3.00	291.70	Horizontal	Passed
4.	2.488024GHz	53.63	-1.84	74.00	-20.37	2.50	1.00	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.3195048GHz	32.02	-2.76	54.00	-21.98	4.00	133.00	Vertical	Passed
2.	2.4942971GHz	33.10	-1.84	54.00	-20.9	4.00	16.60	Vertical	Passed
3.	2.3873687GHz	32.87	-2.43	54.00	-21.13	2.00	70.90	Horizontal	Passed
4.	2.4990495GHz	33.36	-1.84	54.00	-20.64	2.00	178.60	Horizontal	Passed

Overall Graphs:



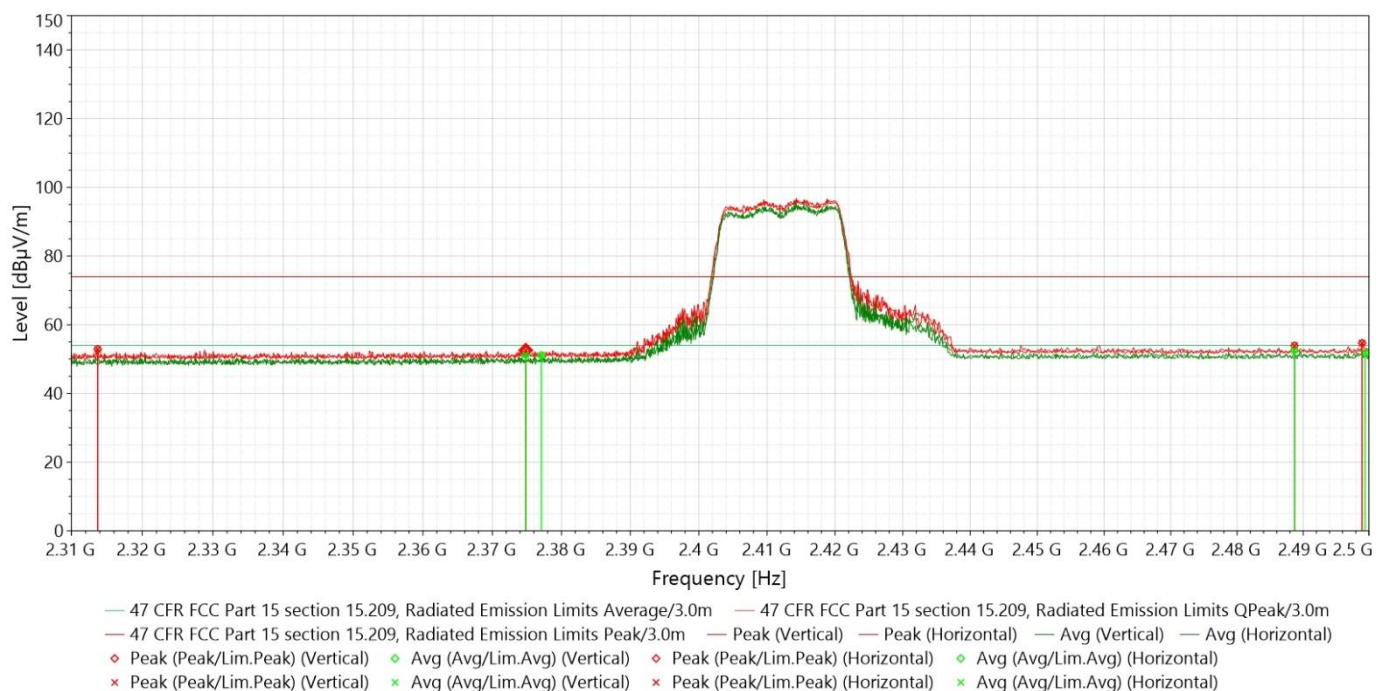
J24179#1_2.4G_Restricted Bandedge_802.11n_MCS0_Ch 1

12/4/2024 19:46:35

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.3748224GHz	52.59	-2.51	74.00	-21.41	4.00	249.40	Vertical	Passed
2.	2.4989545GHz	54.69	-1.84	74.00	-19.31	1.50	217.00	Vertical	Passed
3.	2.3137069GHz	52.88	-2.79	74.00	-21.12	1.50	100.50	Horizontal	Passed
4.	2.4886893GHz	53.93	-1.83	74.00	-20.07	2.00	352.20	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.3748224GHz	31.87	-2.51	54.00	-22.13	4.00	249.40	Vertical	Passed
2.	2.4994297GHz	33.47	-1.84	54.00	-20.53	2.50	81.70	Vertical	Passed
3.	2.3771036GHz	33.05	-2.47	54.00	-20.95	1.00	190.70	Horizontal	Passed
4.	2.4886893GHz	33.37	-1.83	54.00	-20.63	2.00	352.20	Horizontal	Passed

Overall Graphs:



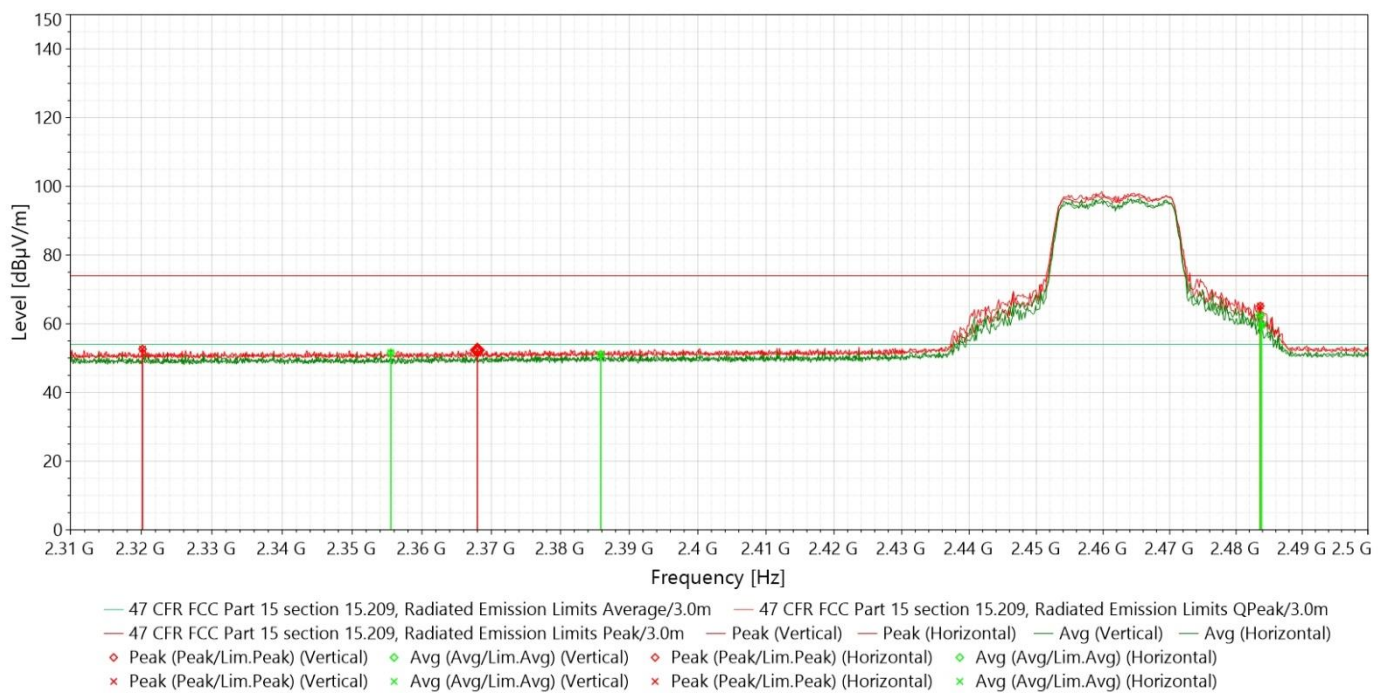
J24179#1_2.4G_Restricted Bandedge_802.11n_MCS0_Ch 11

12/4/2024 20:14:42

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.367979GHz	52.34	-2.57	74.00	-21.66	4.00	0.10	Vertical	Passed
2.	2.4836518GHz	62.48	-1.86	74.00	-11.52	1.00	88.70	Vertical	Passed
3.	2.3201701GHz	52.66	-2.80	74.00	-21.34	3.50	0.10	Horizontal	Passed
4.	2.4836518GHz	65.16	-1.87	74.00	-8.84	1.00	33.80	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.3858479GHz	32.23	-2.45	54.00	-21.77	3.50	278.60	Vertical	Passed
2.	2.4838419GHz	46.25	-1.86	54.00	-7.75	1.00	105.40	Vertical	Passed
3.	2.3555278GHz	32.43	-2.72	54.00	-21.57	2.50	91.60	Horizontal	Passed
4.	2.4836518GHz	49.04	-1.87	54.00	-4.96	1.00	33.80	Horizontal	Passed

Overall Graphs:



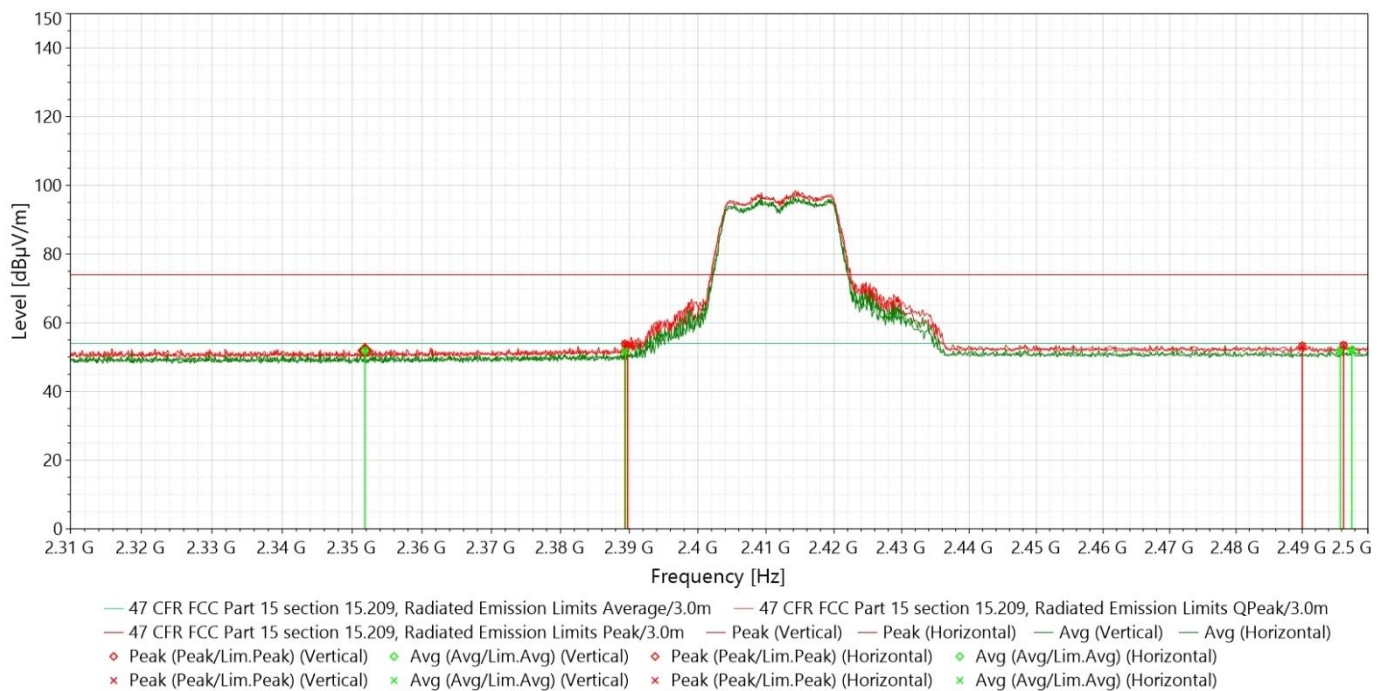
J24179#1_2.4G_Restricted Bandedge_802.11g_6Mbps_Ch 1

12/4/2024 16:37:28

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.3897449GHz	53.45	-2.43	74.00	-20.55	3.00	358.90	Vertical	Passed
2.	2.49002GHz	53.31	-1.82	74.00	-20.69	4.00	333.50	Vertical	Passed
3.	2.3893647GHz	53.86	-2.42	74.00	-20.14	1.00	357.20	Horizontal	Passed
4.	2.4962931GHz	53.50	-1.85	74.00	-20.50	2.50	258.50	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.3518209GHz	32.91	-2.69	54.00	-21.09	2.00	21.80	Vertical	Passed
2.	2.4958179GHz	34.18	-1.84	54.00	-19.82	2.50	1.70	Vertical	Passed
3.	2.3894597GHz	39.76	-2.42	54.00	-14.24	1.50	31.60	Horizontal	Passed
4.	2.4975288GHz	27.63	-1.85	54.00	-26.37	4.00	234.40	Horizontal	Passed

Overall Graphs:



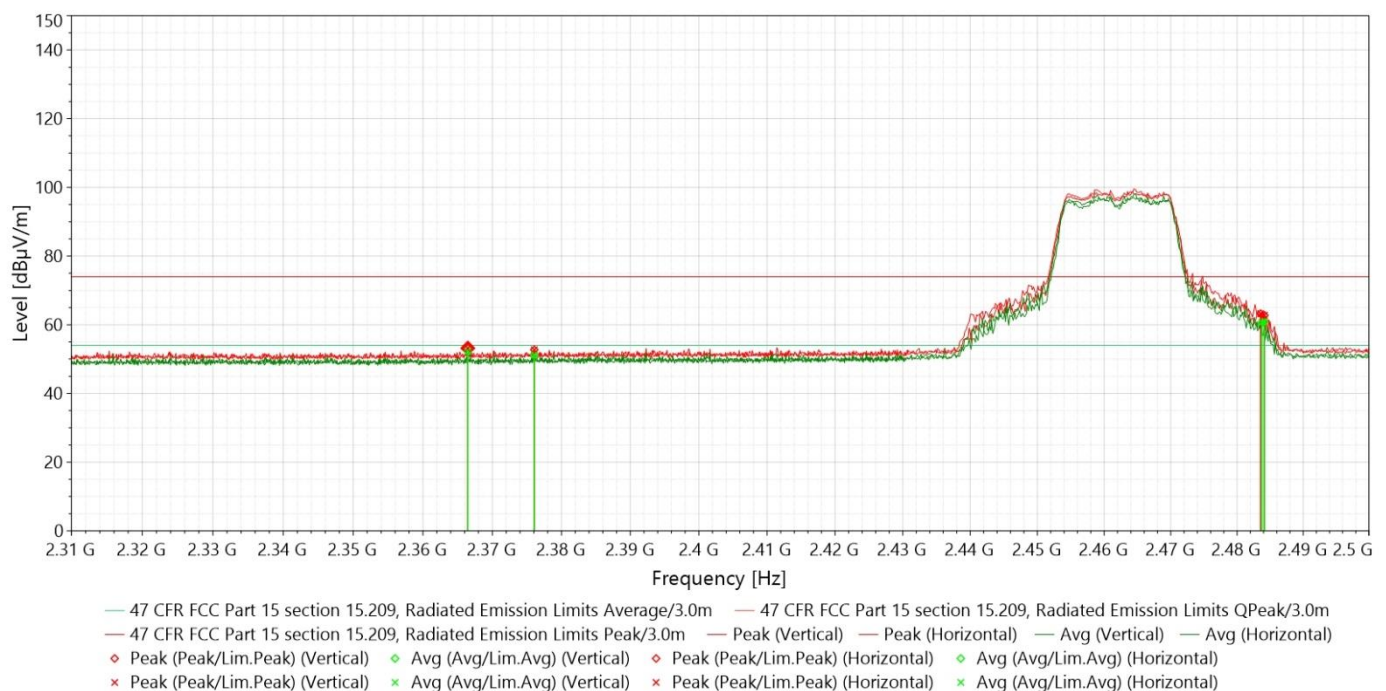
J24179#1_2.4G_Restricted Bandedge_802.11g_6Mbps_Ch 11

12/4/2024 17:22:15

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.3664582GHz	53.19	-2.58	74.00	-20.81	3.00	320.30	Vertical	Passed
2.	2.4841271GHz	62.75	-1.86	74.00	-11.25	1.00	87.70	Vertical	Passed
3.	2.3760580GHz	52.73	-2.48	74.00	-21.27	2.50	348.20	Horizontal	Passed
4.	2.4835568GHz	63.23	-1.87	74.00	-10.77	1.00	358.20	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.3664582GHz	32.52	-2.58	54.00	-21.48	3.00	320.30	Vertical	Passed
2.	2.4841271GHz	47.36	-1.86	54.00	-6.64	1.00	87.70	Vertical	Passed
3.	2.376058GHz	32.44	-2.48	54.00	-21.56	2.50	348.20	Horizontal	Passed
4.	2.4837469GHz	47.96	-1.87	54.00	-6.04	1.00	0.10	Horizontal	Passed

Overall Graphs:



Document Revisions

Version	Date	Modifier	Changes
1.0	1/06/2025	Sharon Spratt	Initial Release
2.0	03/19/2025	Aravind Buddana	- Updated Section 4.4.3 and Section 4.4.4 with 802.11b Plots - Added a Note in Section 4.3 under Test Equipment table on conducted tests completion date to avoid discrepancies on over testing completion date indicated on cover page.

End of Report