

FCC Radio Test Report

FCC ID : TLZ-CU597
Equipment : IEEE 802.11 a/b/g/n 1T1R WLAN and Bluetooth
Low Energy Microcontroller Module
Brand Name : AzureWave
Model Name : AW-CU597
Applicant : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist.,
New Taipei City , Taiwan 231
Manufacturer : AzureWave Technologies (Shanghai) Inc.
No. 1355, Jiaxin Road, Malu Twon, Jiading
District Shanghai, P.R. China
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 02, 2025, and testing was started from Jul. 10, 2025 and completed on Jul. 17, 2025. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Information.....	5
1.2 Testing Applied Standards	7
1.3 Testing Location Information	7
1.4 Measurement Uncertainty	7
2 TEST CONFIGURATION OF EUT.....	8
2.1 Test Channel Mode	8
2.2 The Worst Case Measurement Configuration.....	9
2.3 Support Equipment.....	10
2.4 Test Setup Diagram	11
3 TRANSMITTER TEST RESULT	12
3.1 AC Power-line Conducted Emissions	12
3.2 DTS Bandwidth.....	14
3.3 Maximum Conducted Output Power	15
3.4 Power Spectral Density	17
3.5 Emissions in Non-restricted Frequency Bands	18
3.6 Emissions in Restricted Frequency Bands.....	19
4 TEST EQUIPMENT AND CALIBRATION DATA	23
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPENDIX B. TEST RESULTS OF DTS BANDWIDTH	
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPENDIX D. TEST RESULTS OF POWER SPECTRAL DENSITY	
APPENDIX E. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS	
APPENDIX F. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS	
APPENDIX G. TEST PHOTOS	
PHOTOGRAPHS OF EUT V01	



History of this test report

Report No.	Version	Description	Issued Date
FR360708-02AC	01	Initial issue of report	Oct. 20, 2025

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Ben Tseng

Report Producer: Michelle Tsai

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX
2.4-2.4835GHz	802.11n HT40	40	1TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	LYNwave	ALX20M-222AAC	PIFA	I-Pex

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT
1	1	3.7	4.1	3.7

For 2.4GHz function:

For IEEE 802.11 b/g/n mode (1TX/1RX)

Ant. 1 (port 1) could transmit/receive.

For 5GHz function:

For IEEE 802.11 a/n mode (1TX/1RX)

Ant. 1 (port 1) could transmit/receive.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 1 (port 1) could transmit/receive.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From Test Fixture		
EUT Function	☒ Point-to-multipoint	☐ Point-to-point	
Beamforming Function	☐ With beamforming	☒ Without beamforming	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.:		...
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:		...
☐	Other:		

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11b_Nss1,(1Mbps)_1TX	1	0	100.003m	10Hz (DC>=0.98)
802.11g_Nss1,(6Mbps)_1TX	1	0	100.003m	10Hz (DC>=0.98)
802.11n HT20_Nss1,(MCS0)_1TX	1	0	100.003m	10Hz (DC>=0.98)
802.11n HT40_Nss1,(MCS0)_1TX	1	0	100.003m	10Hz (DC>=0.98)

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Simon Cheng	22.1~23.6°C / 53~58%	17/Jul/2025
RF Conducted	TH07-HY	Xun Hsieh	23.3~23.9°C / 53~57%	15/Jul/2025
Radiated	03CH03-HY	Simon Cheng	20.1~23.4°C / 52~57%	10/Jul/2025~15/Jul/2025
☐ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	3.44 dB	Confidence levels of 95%
Conducted Output Power	1.48 dB	Confidence levels of 95%
Bandwidth	0.05 MHz	Confidence levels of 95%
Conducted Emission	1.48 dB	Confidence levels of 95%
Power Spectral Density	1.22 dB	Confidence levels of 95%
Radiated Emission (9 kHz ~ 30 MHz)	2.9 dB	Confidence levels of 95%
Radiated Emission (30 MHz ~ 1 GHz)	5.64 dB	Confidence levels of 95%
Radiated Emission (1 GHz ~ 18 GHz)	5.02 dB	Confidence levels of 95%
Radiated Emission (18 GHz ~ 40 GHz)	5.28 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	AmebaD_mptool_5V1
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Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	117
2417MHz	119
2437MHz	127
2457MHz	114
2462MHz	113
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	95
2417MHz	104
2437MHz	113
2457MHz	96
2462MHz	86
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	94
2417MHz	103
2437MHz	112
2457MHz	96
2462MHz	86
802.11n HT40_Nss1,(MCS0)_1TX	-
2422MHz	91
2427MHz	94
2437MHz	94
2447MHz	86
2452MHz	83

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	Fixture Mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Fixture Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

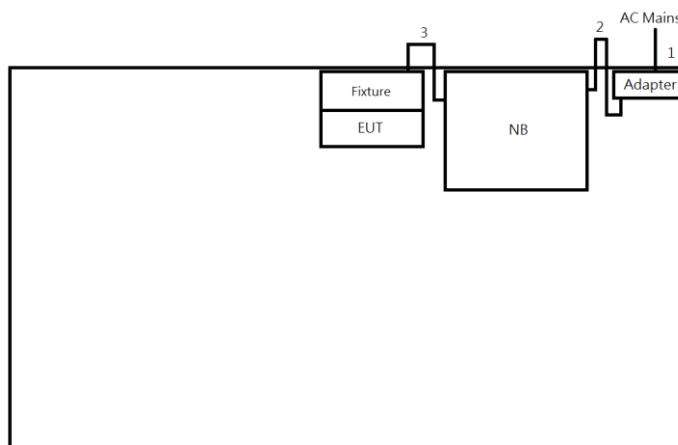
2.3 Support Equipment

Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	HP	HSTNN-142C	-	-
2	Adapter for Notebook	HP	HSTNN-LA40	-	-
3	AC Power Cable	Power Sync	TPCMRN0018	-	-
4	USB cable	HP	8121-0868	-	-
5	Fixture	Azurewave	2488-I1	-	Provided by Customer

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for Notebook	DELL	HA65NM130	-	-
3	Fixture	Azurewave	2488-I1	-	Provided by Customer

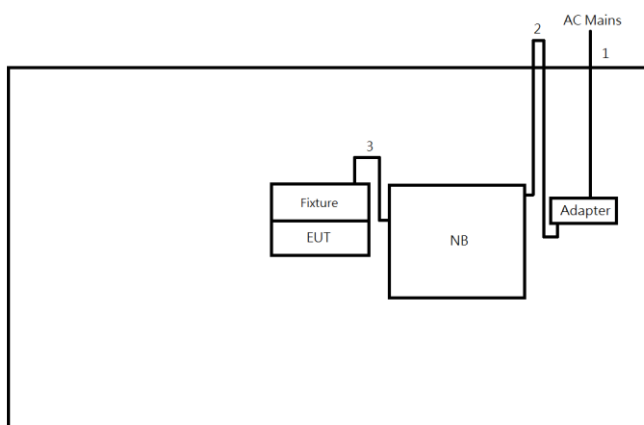
2.4 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.8	-
3	USB cable	No	1.0	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.8	-
3	USB cable	No	1.0	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

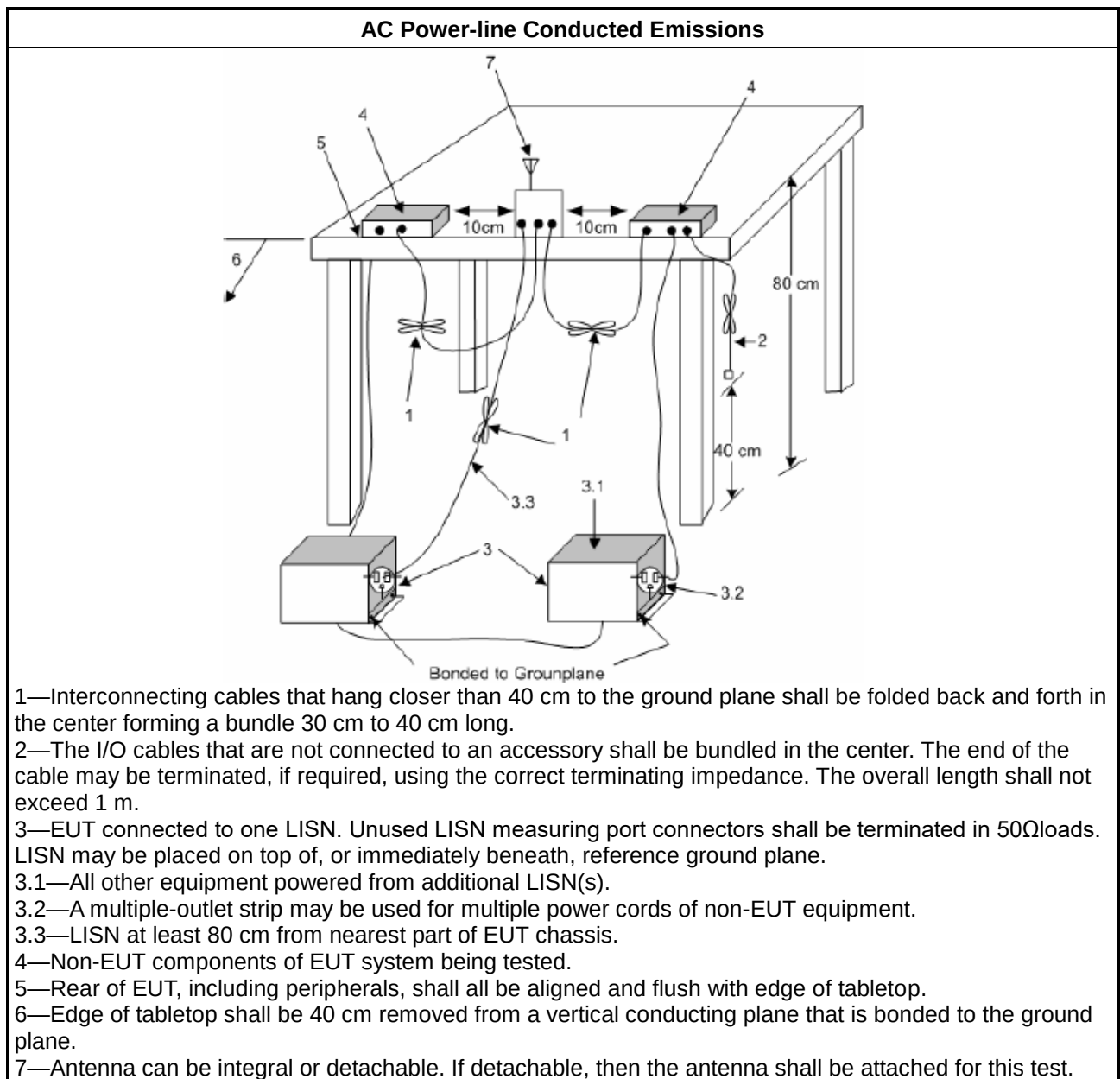
Test Method
☒ Refer as ANSI C63.10, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth $\geq$ 500 kHz.

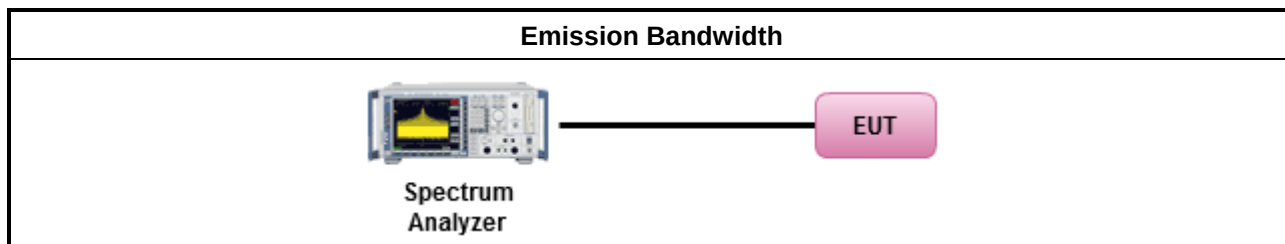
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
☒	Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dBm
e.i.r.p. Power Limit:	
	2400-2483.5 MHz Band
	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	Smart antenna system (SAS)
	- Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

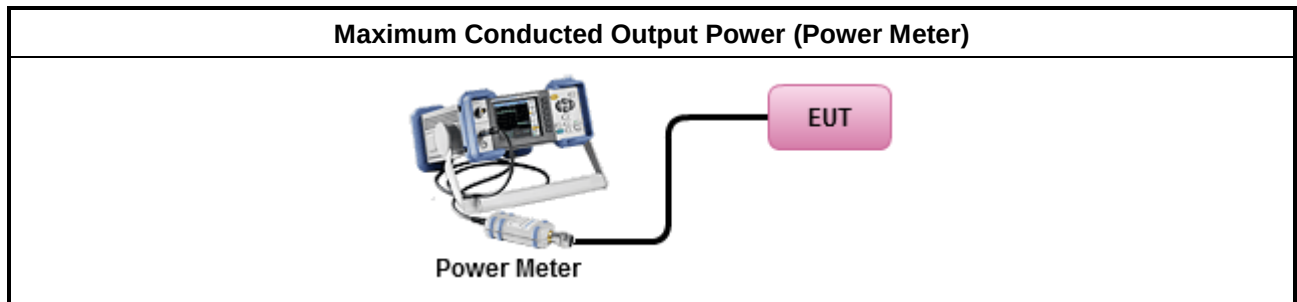
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.2 of ANSI C63.10) peak power meter.
Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit	
▪	Power Spectral Density (PSD) ≤ 8 dBm/3kHz

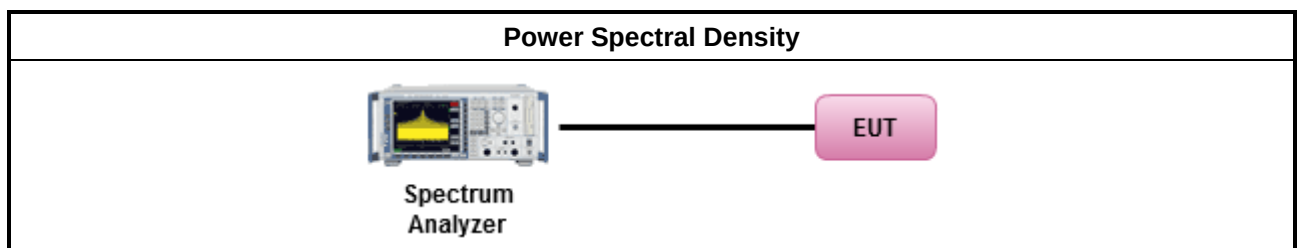
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
▪	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒	Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
▪	For conducted measurement.
▪	If The EUT supports multiple transmit chains using options given below:
▪	Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.	

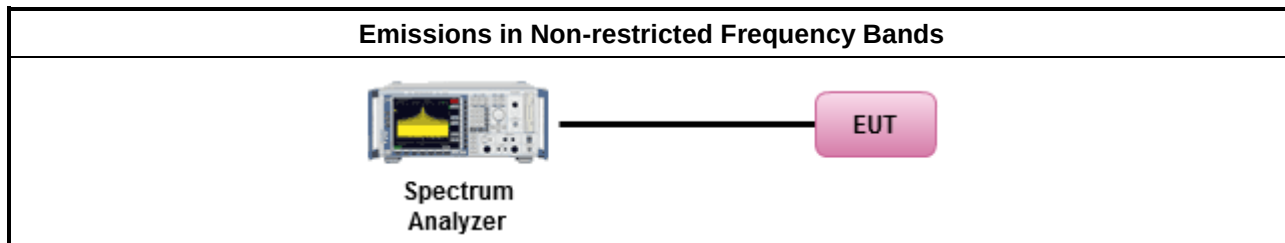
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method
Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
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	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

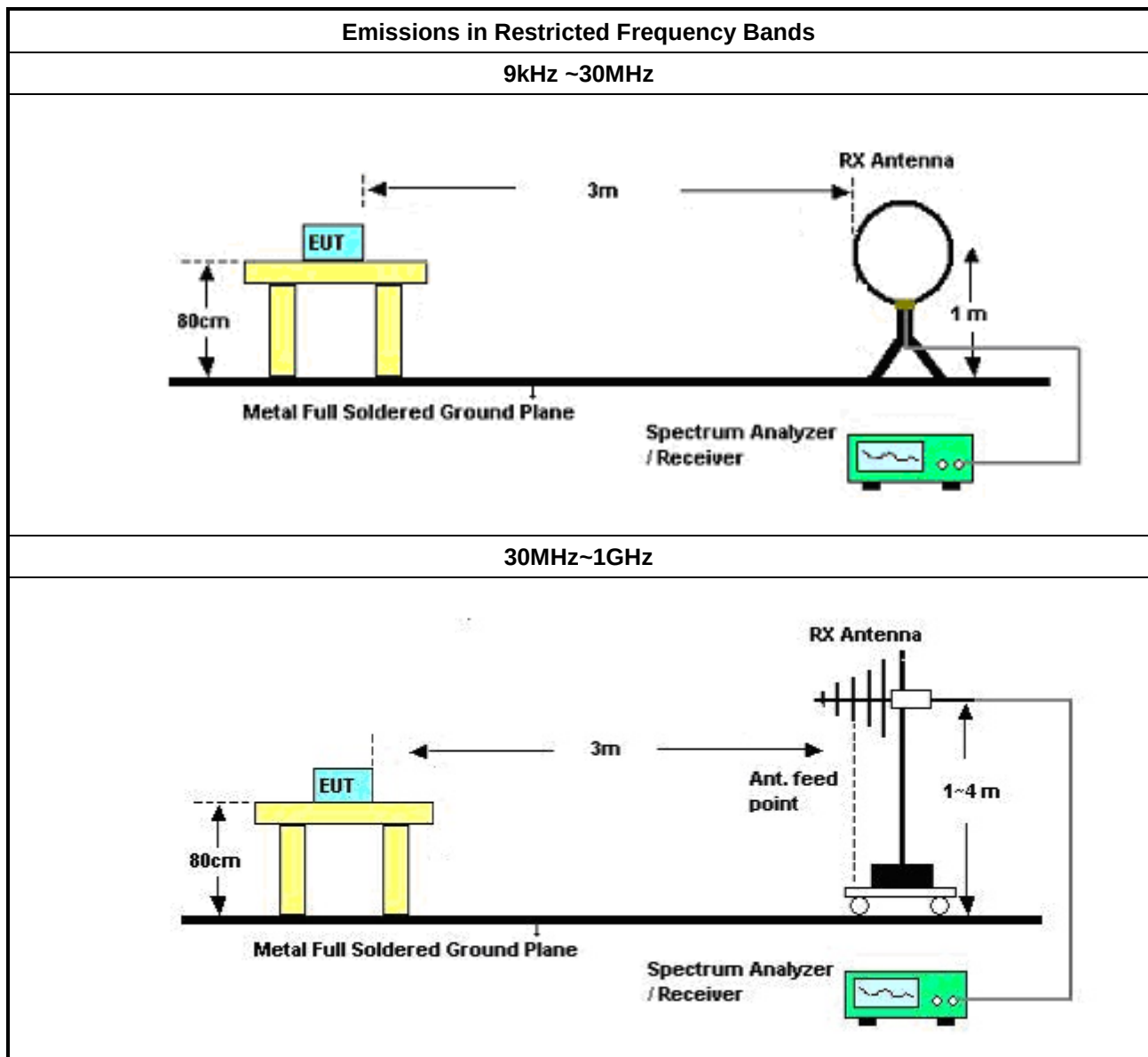
Test Method	
▪	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪	For the transmitter unwanted emissions shall be measured using following options below:
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
▪	For the transmitter band-edge emissions shall be measured using following options below:
	Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
▪	Use the following spectrum analyzer settings:
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
▪	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

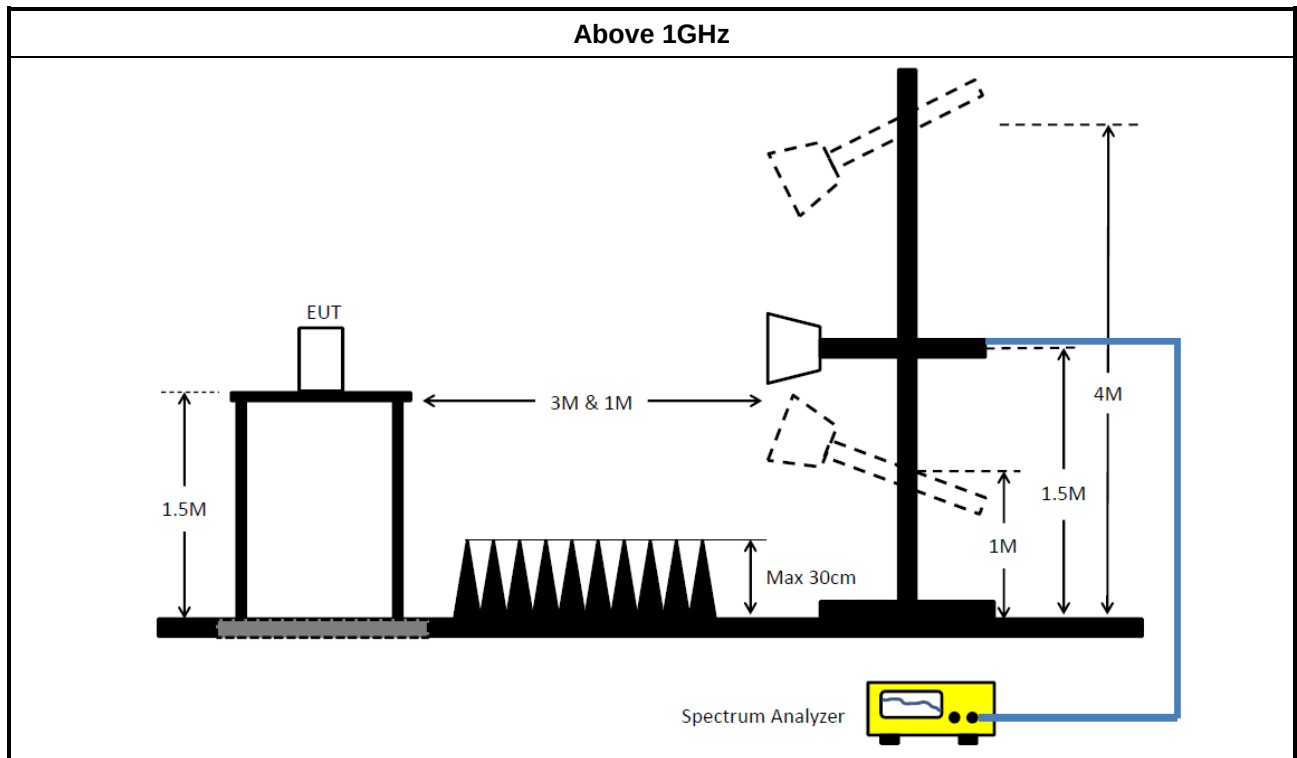
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.6.5 Test Setup





3.6.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	21/May/2025	20/May/2026
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	100003	9kHz ~ 30MHz	18/Apr/2025	17/Apr/2026
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
Software	Sporton	SENSE-EMI	V5.11.6	-	NCR	NCR

NCR: No Calibration Required

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	14/Jul/2024	13/Jul/2025
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	13/Jul/2025	12/Jul/2026
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	14/Jul/2024	13/Jul/2025
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	13/Jul/2025	12/Jul/2026
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	14/May/2025	13/May/2026
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101748	10Hz~44GHz	10/Apr/2025	09/Apr/2026
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	14/Oct/2024	13/Oct/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	18/Oct/2024	17/Oct/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz ~ 40GHz	04/Oct/2024	03/Oct/2025
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	10/Jun/2025	09/Jun/2026
RF Cable-R03m	Jye Bao	RG142	03CH03-cable-02	30MHz~1GHz	10/Jun/2025	09/Jun/2026
RF CABLE 5+8m	HUBER+SUHNER	SUOFLEX_104	03CH03-cable-03	1GHz~40GHz	19/May/2025	18/May/2026
Amplifier	Aglient	8447D	2944A08033	100kHz~1.3GHz	13/Sep/2024	12/Sep/2025
Microwave Premplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	25/Jul/2024	24/Jul/2025
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	26/Apr/2025	25/Apr/2026
SENSE-15247_DTS	Sporton	V5.11.23	NA	NA	NA	NA

**Instrument for Conducted Test**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	23/Jan/2025	22/Jan/2026
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	18/Dec/2024	17/Dec/2025
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	18/Dec/2024	17/Dec/2025
SENSE-15247_DTS	Sporton	V5.11.25	N/A	N/A	N/A	N/A



Conducted Emissions at Powerline

Appendix A

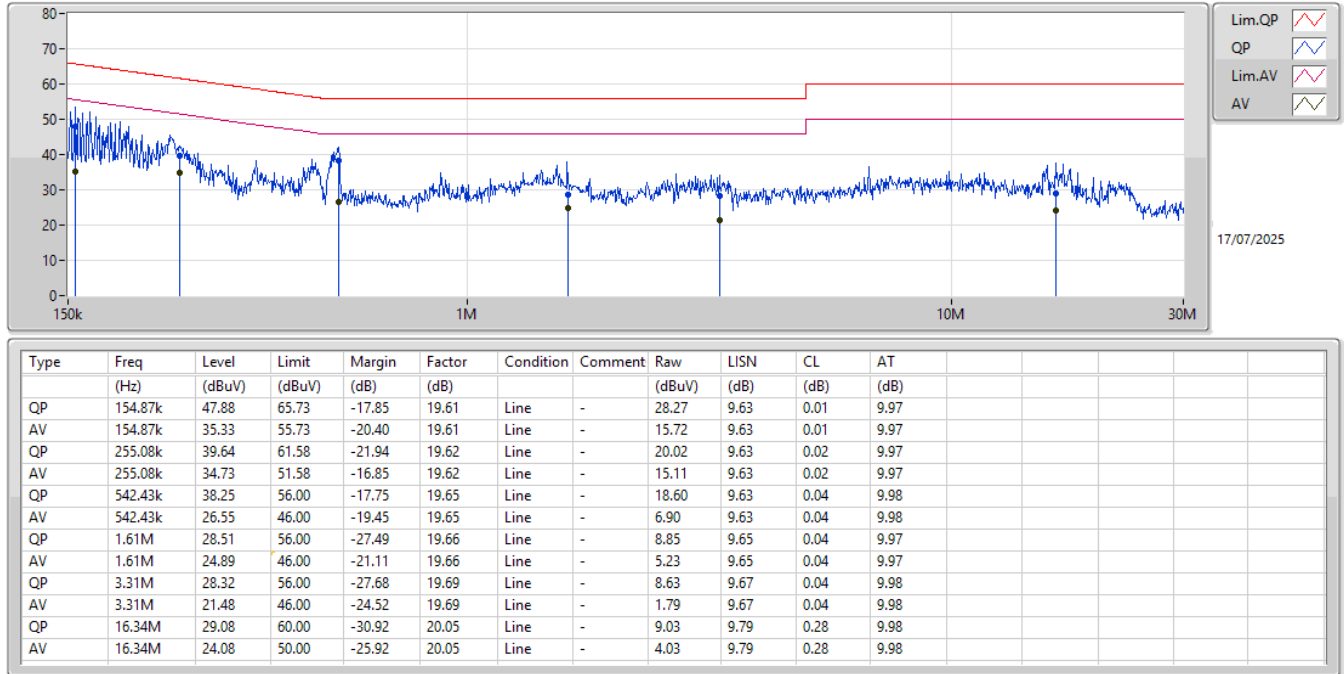
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	540.27k	40.62	56.00	-15.38	Neutral

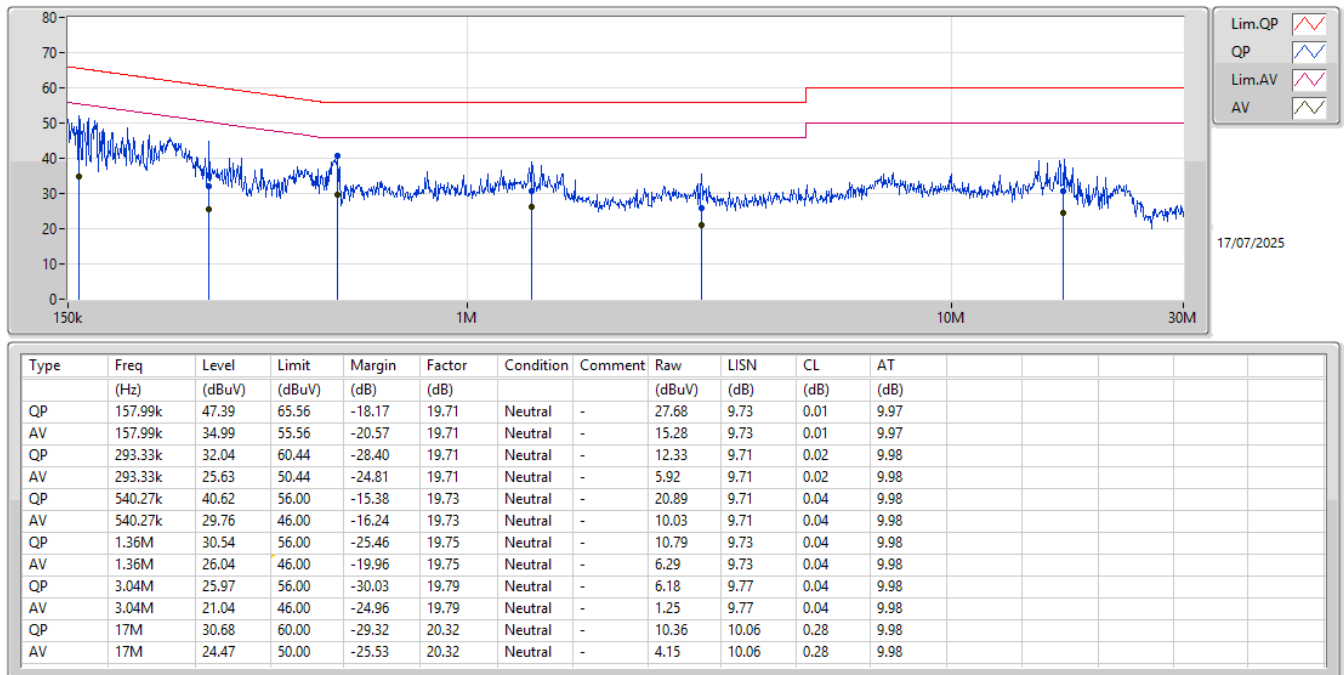
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	154.87k	47.88	65.73	-17.85	Line
Mode 1	Pass	AV	154.87k	35.33	55.73	-20.40	Line
Mode 1	Pass	QP	255.08k	39.64	61.58	-21.94	Line
Mode 1	Pass	AV	255.08k	34.73	51.58	-16.85	Line
Mode 1	Pass	QP	542.43k	38.25	56.00	-17.75	Line
Mode 1	Pass	AV	542.43k	26.55	46.00	-19.45	Line
Mode 1	Pass	QP	1.61M	28.51	56.00	-27.49	Line
Mode 1	Pass	AV	1.61M	24.89	46.00	-21.11	Line
Mode 1	Pass	QP	3.31M	28.32	56.00	-27.68	Line
Mode 1	Pass	AV	3.31M	21.48	46.00	-24.52	Line
Mode 1	Pass	QP	16.34M	29.08	60.00	-30.92	Line
Mode 1	Pass	AV	16.34M	24.08	50.00	-25.92	Line
Mode 1	Pass	QP	157.99k	47.39	65.56	-18.17	Neutral
Mode 1	Pass	AV	157.99k	34.99	55.56	-20.57	Neutral
Mode 1	Pass	QP	293.33k	32.04	60.44	-28.40	Neutral
Mode 1	Pass	AV	293.33k	25.63	50.44	-24.81	Neutral
Mode 1	Pass	QP	540.27k	40.62	56.00	-15.38	Neutral
Mode 1	Pass	AV	540.27k	29.76	46.00	-16.24	Neutral
Mode 1	Pass	QP	1.36M	30.54	56.00	-25.46	Neutral
Mode 1	Pass	AV	1.36M	26.04	46.00	-19.96	Neutral
Mode 1	Pass	QP	3.04M	25.97	56.00	-30.03	Neutral
Mode 1	Pass	AV	3.04M	21.04	46.00	-24.96	Neutral
Mode 1	Pass	QP	17M	30.68	60.00	-29.32	Neutral
Mode 1	Pass	AV	17M	24.47	50.00	-25.53	Neutral

Conducted Emissions at Powerline_Mode 1



Conducted Emissions at Powerline_Mode 1



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	10.05M	15.337M	15M3G1D	9.575M	14.573M
802.11g_Nss1,(6Mbps)_1TX	16.425M	18.493M	18M5D1D	16.425M	16.536M
802.11n HT20_Nss1,(MCS0)_1TX	17.75M	19.14M	19M1D1D	17.7M	17.616M
802.11n HT40_Nss1,(MCS0)_1TX	36.35M	35.932M	35M9D1D	36.3M	35.832M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

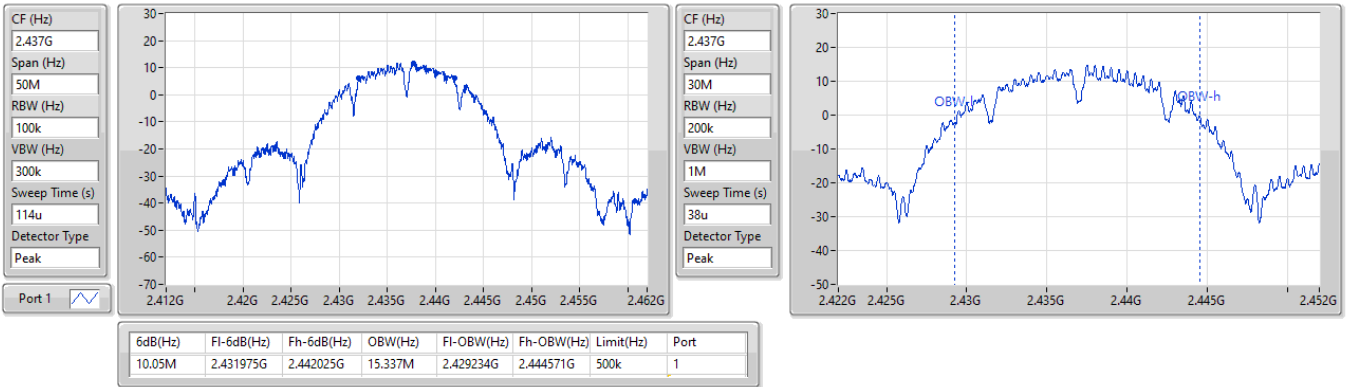
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	9.725M	14.618M
2437MHz	Pass	500k	10.05M	15.337M
2462MHz	Pass	500k	9.575M	14.573M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.425M	16.536M
2437MHz	Pass	500k	16.425M	18.493M
2462MHz	Pass	500k	16.425M	16.558M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.75M	17.691M
2437MHz	Pass	500k	17.7M	19.14M
2462MHz	Pass	500k	17.7M	17.616M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	36.3M	35.832M
2437MHz	Pass	500k	36.35M	35.932M
2452MHz	Pass	500k	36.3M	35.882M

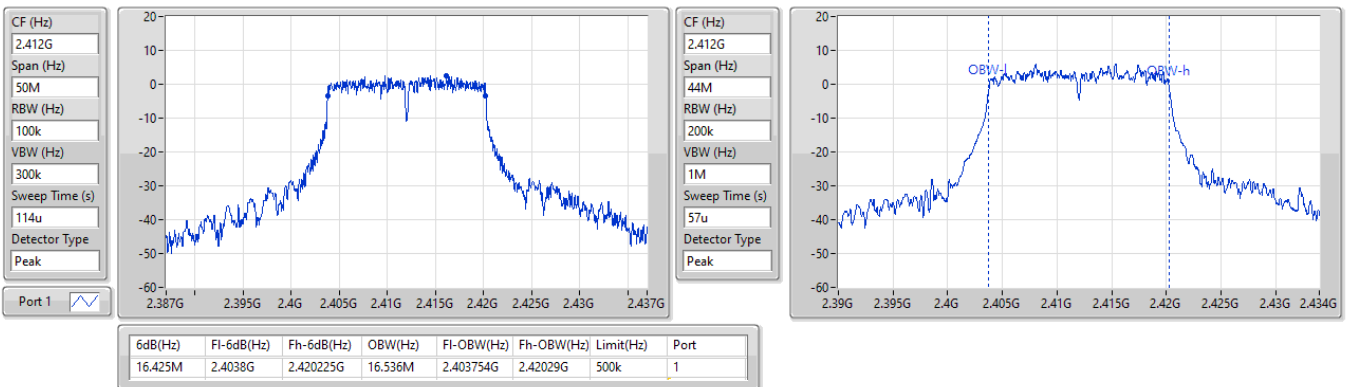
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

15/07/2025


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2412MHz

15/07/2025

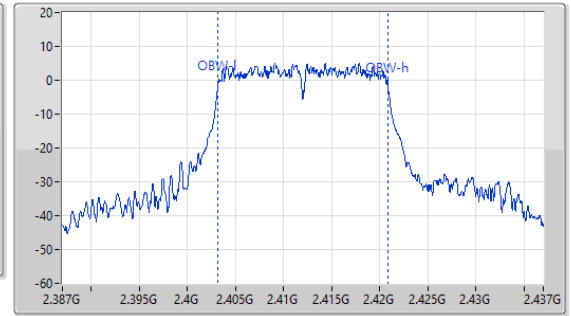
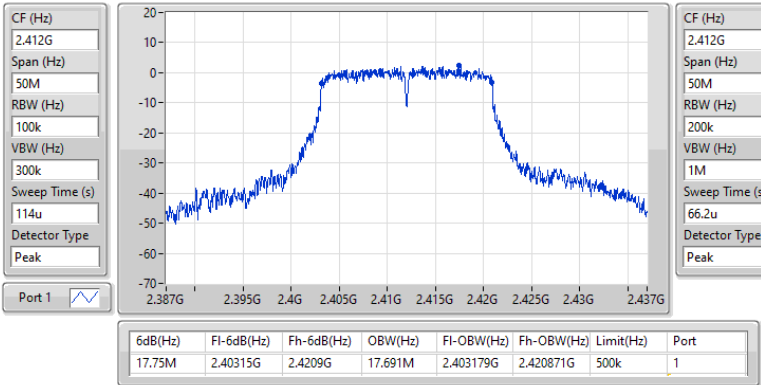


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

EBW

2412MHz

15/07/2025

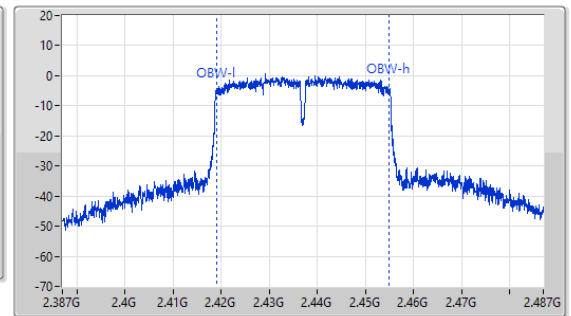
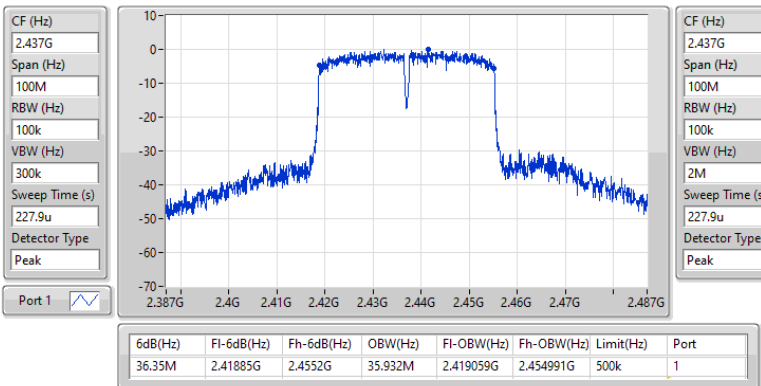


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

EBW

2437MHz

15/07/2025





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	23.63	0.23067
802.11g_Nss1,(6Mbps)_1TX	21.81	0.15171
802.11n HT20_Nss1,(MCS0)_1TX	21.62	0.14521
802.11n HT40_Nss1,(MCS0)_1TX	17.59	0.05741

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.70	21.98	21.98	30.00
2417MHz	Pass	3.70	22.56	22.56	30.00
2437MHz	Pass	3.70	23.63	23.63	30.00
2457MHz	Pass	3.70	21.53	21.53	30.00
2462MHz	Pass	3.70	21.30	21.30	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.70	17.29	17.29	30.00
2417MHz	Pass	3.70	19.44	19.44	30.00
2437MHz	Pass	3.70	21.81	21.81	30.00
2457MHz	Pass	3.70	18.01	18.01	30.00
2462MHz	Pass	3.70	15.79	15.79	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.70	17.18	17.18	30.00
2417MHz	Pass	3.70	18.97	18.97	30.00
2437MHz	Pass	3.70	21.62	21.62	30.00
2457MHz	Pass	3.70	17.79	17.79	30.00
2462MHz	Pass	3.70	15.65	15.65	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	3.70	16.49	16.49	30.00
2427MHz	Pass	3.70	17.59	17.59	30.00
2437MHz	Pass	3.70	17.56	17.56	30.00
2447MHz	Pass	3.70	15.76	15.76	30.00
2452MHz	Pass	3.70	14.99	14.99	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-7.28
802.11g_Nss1,(6Mbps)_1TX	-7.65
802.11n HT20_Nss1,(MCS0)_1TX	-7.58
802.11n HT40_Nss1,(MCS0)_1TX	-12.81

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.70	-8.94	-8.94	8.00
2437MHz	Pass	3.70	-7.28	-7.28	8.00
2462MHz	Pass	3.70	-9.45	-9.45	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.70	-12.06	-12.06	8.00
2437MHz	Pass	3.70	-7.65	-7.65	8.00
2462MHz	Pass	3.70	-13.32	-13.32	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.70	-12.10	-12.10	8.00
2437MHz	Pass	3.70	-7.58	-7.58	8.00
2462MHz	Pass	3.70	-13.28	-13.28	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	3.70	-14.01	-14.01	8.00
2437MHz	Pass	3.70	-12.81	-12.81	8.00
2452MHz	Pass	3.70	-15.31	-15.31	8.00

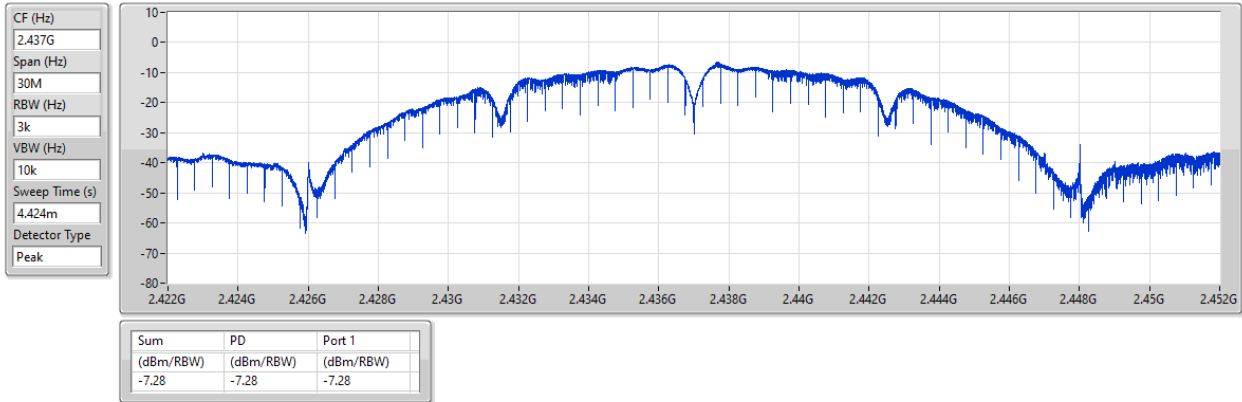
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
 Inf = There's no restriction for the limit.

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

15/07/2025

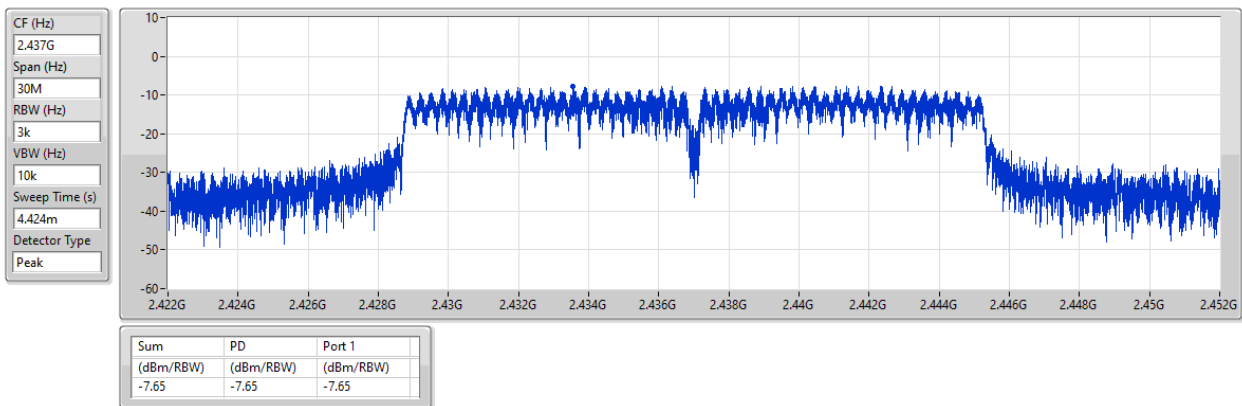


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

15/07/2025

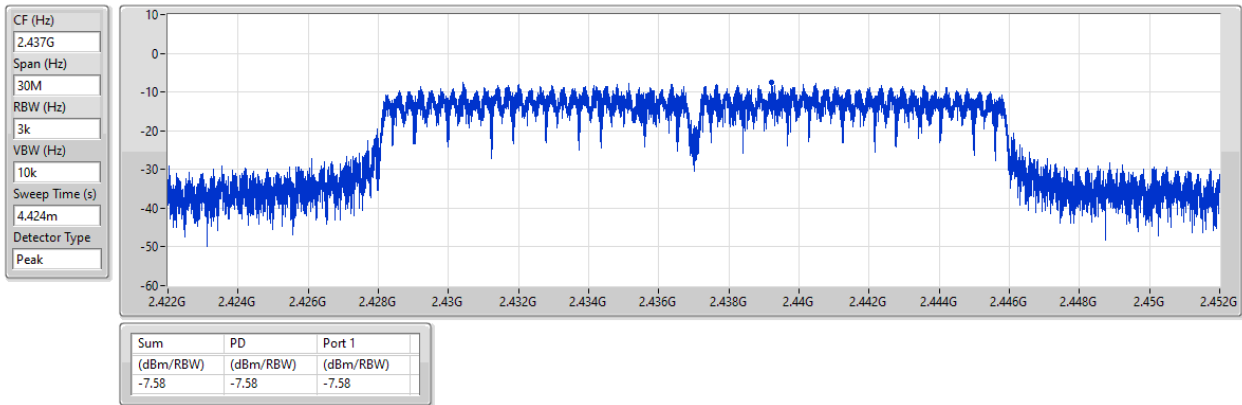


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

PSD

2437MHz

15/07/2025

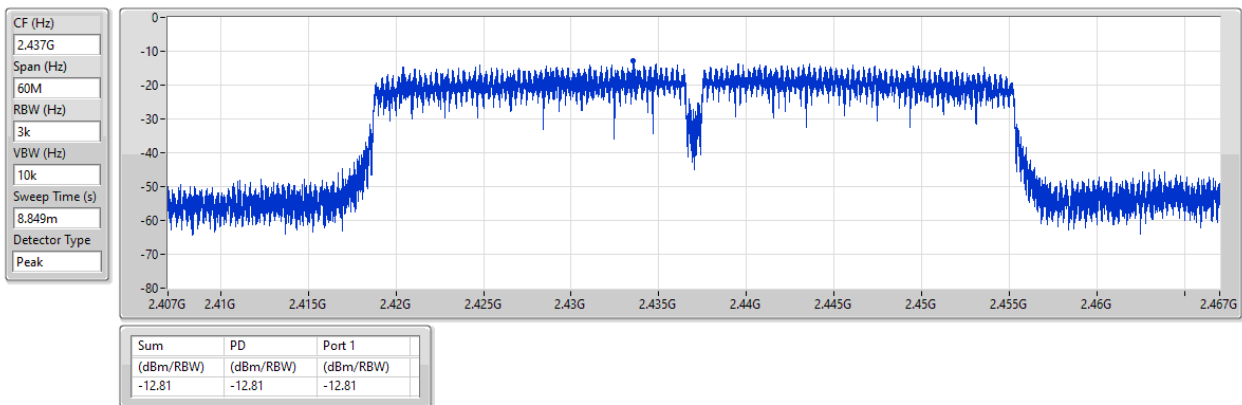


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

PSD

2437MHz

15/07/2025





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.43758G	13.50	-16.50	2.30408G	-53.02	2.4G	-26.55	2.4G	-26.55	2.51926G	-49.69	24.19366G	-42.06	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43424G	7.42	-22.58	2.30525G	-53.85	2.4G	-27.17	2.4G	-27.18	2.51422G	-51.07	15.04572G	-41.43	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.43407G	7.69	-22.31	2.11302G	-54.11	2.39936G	-28.23	2.4G	-30.46	2.5067G	-50.14	24.86795G	-41.62	1
802.11n HT40_Nss1,(MCS0)_1TX	Pass	2.42923G	0.37	-29.63	1.95933G	-53.70	2.39792G	-35.54	2.4G	-37.20	2.50366G	-49.48	17.42207G	-41.83	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43758G	13.50	-16.50	2.30408G	-53.02	2.4G	-26.55	2.4G	-26.55	2.51926G	-49.69	24.19366G	-42.06	1
2437MHz	Pass	2.43758G	13.50	-16.50	2.30408G	-54.04	2.39952G	-40.75	2.4G	-40.97	2.51998G	-48.80	14.9811G	-41.66	1
2462MHz	Pass	2.43758G	13.50	-16.50	2.30175G	-52.73	2.39856G	-50.28	2.4G	-51.78	2.5027G	-48.80	16.95903G	-42.14	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43424G	7.42	-22.58	2.30525G	-53.85	2.4G	-27.17	2.4G	-27.18	2.51422G	-51.07	15.04572G	-41.43	1
2437MHz	Pass	2.43424G	7.42	-22.58	2.30525G	-52.40	2.39992G	-39.24	2.4G	-40.64	2.50038G	-47.77	24.87919G	-41.26	1
2462MHz	Pass	2.43424G	7.42	-22.58	2.11652G	-53.53	2.3996G	-52.63	2.4G	-53.45	2.50278G	-50.12	21.99939G	-41.46	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43407G	7.69	-22.31	2.11302G	-54.11	2.39936G	-28.23	2.4G	-30.46	2.5067G	-50.14	24.86795G	-41.62	1
2437MHz	Pass	2.43407G	7.69	-22.31	2.30991G	-53.23	2.39672G	-38.68	2.4G	-38.16	2.5055G	-47.19	16.87755G	-40.81	1
2462MHz	Pass	2.43407G	7.69	-22.31	2.30991G	-53.78	2.39728G	-51.14	2.4G	-53.22	2.51758G	-50.28	16.55446G	-41.44	1
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42923G	0.37	-29.63	1.95933G	-53.70	2.39792G	-35.54	2.4G	-37.20	2.50366G	-49.48	17.42207G	-41.83	1
2437MHz	Pass	2.42923G	0.37	-29.63	2.30283G	-53.46	2.3984G	-36.53	2.4G	-37.54	2.50062G	-47.02	17.01822G	-41.27	1
2452MHz	Pass	2.42923G	0.37	-29.63	1.93643G	-54.92	2.39712G	-49.52	2.4G	-50.41	2.50174G	-47.28	24.57651G	-41.62	1

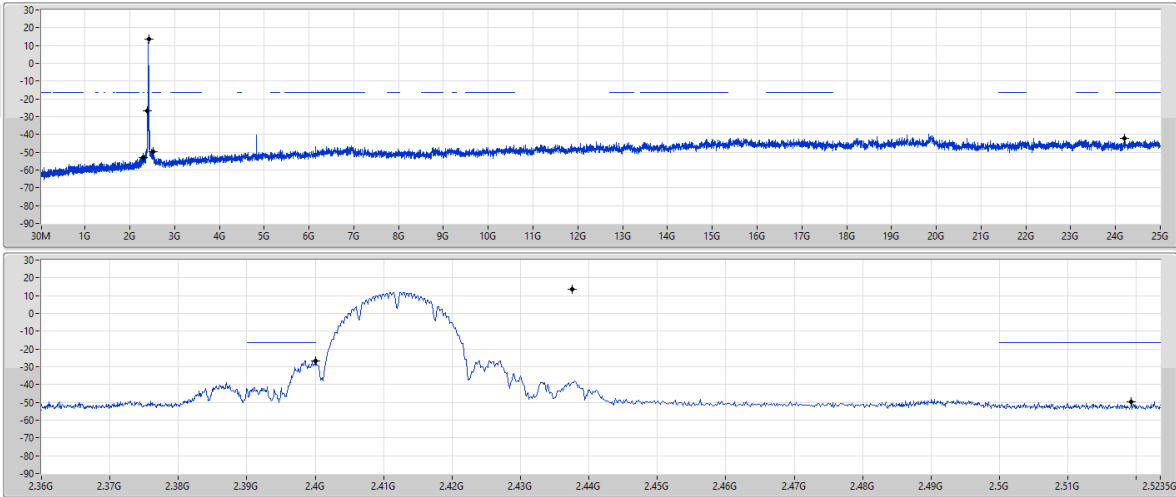
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2412MHz

15/07/2025

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



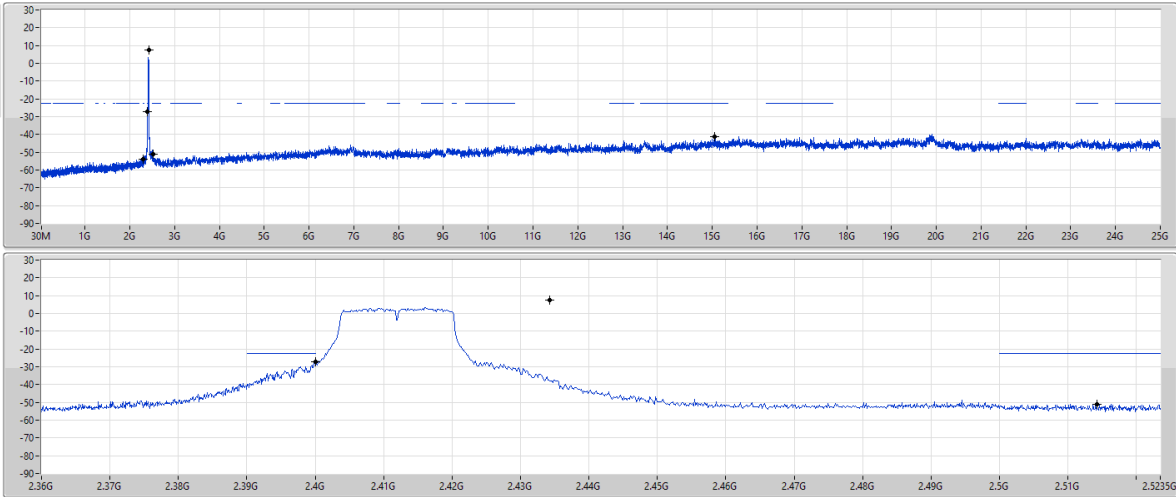
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

CSEndB

2412MHz

15/07/2025

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

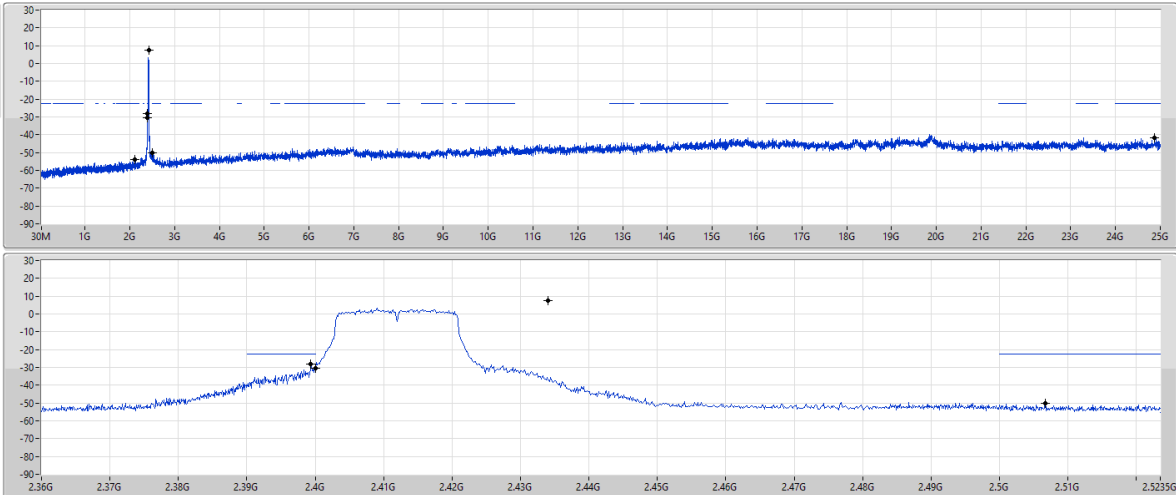
CSEndB

2412MHz

15/07/2025

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43407G	7.69	-22.31	2.11302G	-54.11	2.39936G	-28.23	2.4G	-30.46	2.5067G	-50.14	2.486795G	-41.62	1

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

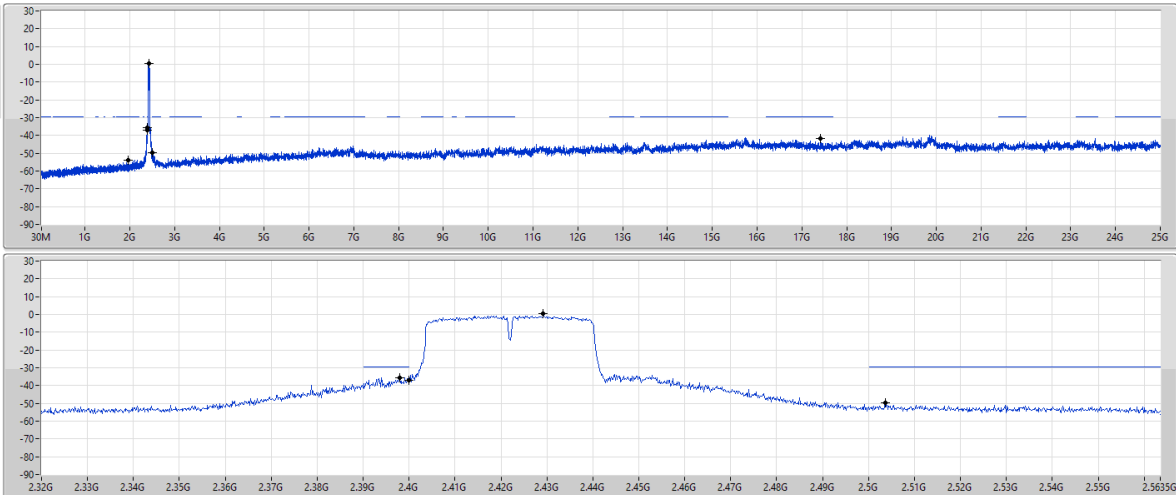
CSEndB

2422MHz

15/07/2025

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42923G	0.37	-29.63	1.95933G	-53.70	2.39792G	-35.54	2.4G	-37.20	2.50366G	-49.48	17.42207G	-41.83	1



Summary

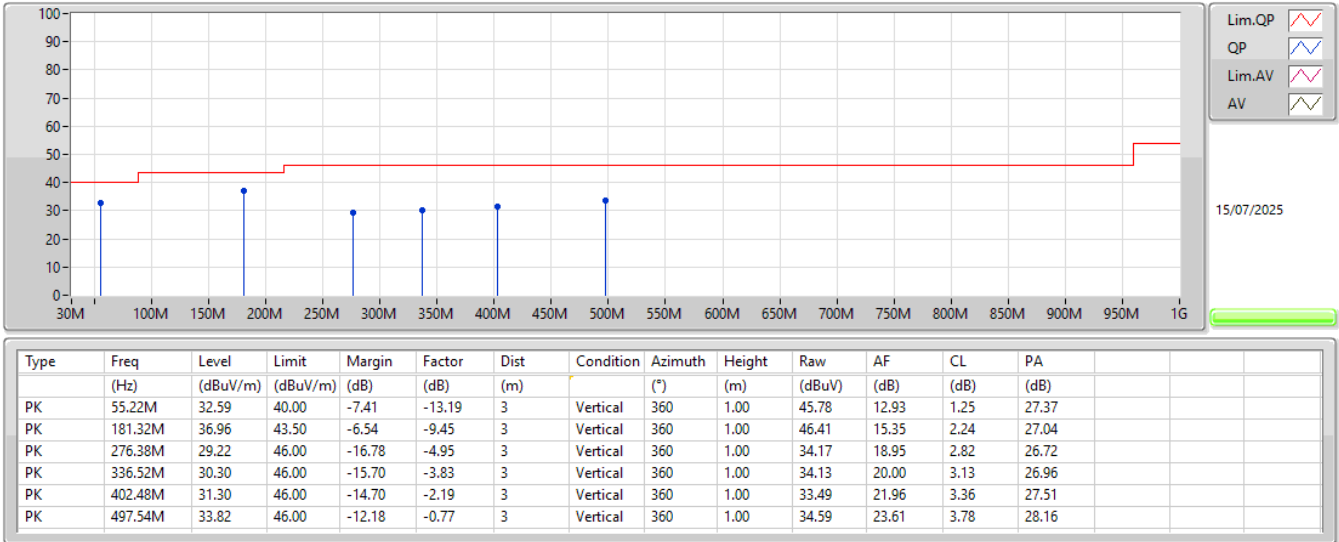
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	PK	181.32M	36.96	43.50	-6.54	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11n HT40_Nss1(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	55.22M	32.59	40.00	-7.41	3	Vertical	360	1.00
2437MHz	Pass	PK	181.32M	36.96	43.50	-6.54	3	Vertical	360	1.00
2437MHz	Pass	PK	276.38M	29.22	46.00	-16.78	3	Vertical	360	1.00
2437MHz	Pass	PK	336.52M	30.30	46.00	-15.70	3	Vertical	360	1.00
2437MHz	Pass	PK	402.48M	31.30	46.00	-14.70	3	Vertical	360	1.00
2437MHz	Pass	PK	497.54M	33.82	46.00	-12.18	3	Vertical	360	1.00
2437MHz	Pass	PK	30M	24.73	40.00	-15.27	3	Horizontal	0	1.00
2437MHz	Pass	PK	156.1M	30.72	43.50	-12.78	3	Horizontal	0	1.00
2437MHz	Pass	PK	224M	35.79	46.00	-10.21	3	Horizontal	0	1.00
2437MHz	Pass	PK	336.52M	35.51	46.00	-10.49	3	Horizontal	0	1.00
2437MHz	Pass	PK	388.9M	35.69	46.00	-10.31	3	Horizontal	0	1.00
2437MHz	Pass	PK	474.26M	30.54	46.00	-15.46	3	Horizontal	0	1.00

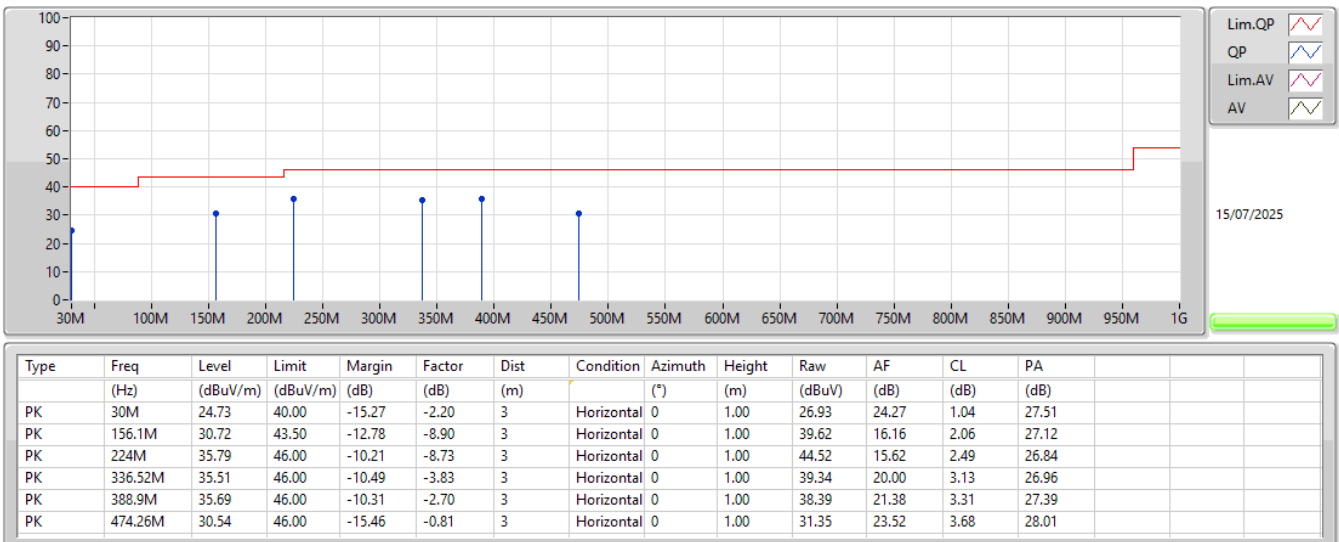
2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_Fixture



2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_Fixture



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	2.39G	52.97	54.00	-1.03	3	Horizontal	268	1.04
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4835G	52.90	54.00	-1.10	3	Horizontal	327	1.37
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.4835G	52.76	54.00	-1.24	3	Horizontal	326	1.37
802.11n HT40_Nss1,(MCS0)_1TX	Pass	AV	2.4835G	52.82	54.00	-1.18	3	Horizontal	326	1.37

Result

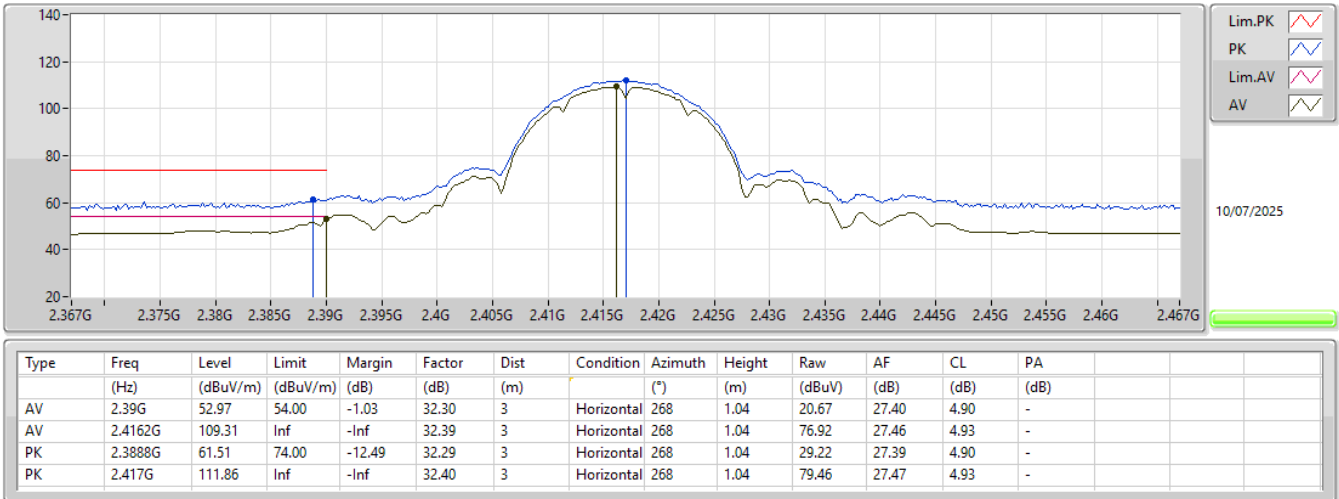
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.387G	52.76	54.00	-1.24	3	Horizontal	268	1.03
2412MHz	Pass	AV	2.4128G	109.41	Inf	-Inf	3	Horizontal	268	1.03
2412MHz	Pass	PK	2.387G	61.95	74.00	-12.05	3	Horizontal	268	1.03
2412MHz	Pass	PK	2.412G	112.02	Inf	-Inf	3	Horizontal	268	1.03
2412MHz	Pass	AV	4.82404G	33.91	54.00	-20.09	3	Vertical	292	2.60
2412MHz	Pass	PK	4.82848G	45.74	74.00	-28.26	3	Vertical	292	2.60
2412MHz	Pass	AV	4.824G	40.08	54.00	-13.92	3	Horizontal	328	1.25
2412MHz	Pass	PK	4.82396G	47.65	74.00	-26.35	3	Horizontal	328	1.25
2417MHz	Pass	AV	2.39G	52.97	54.00	-1.03	3	Horizontal	268	1.04
2417MHz	Pass	AV	2.4162G	109.31	Inf	-Inf	3	Horizontal	268	1.04
2417MHz	Pass	PK	2.3888G	61.51	74.00	-12.49	3	Horizontal	268	1.04
2417MHz	Pass	PK	2.417G	111.86	Inf	-Inf	3	Horizontal	268	1.04
2437MHz	Pass	AV	2.3894G	47.74	54.00	-6.26	3	Horizontal	309	1.08
2437MHz	Pass	AV	2.4378G	110.23	Inf	-Inf	3	Horizontal	309	1.08
2437MHz	Pass	AV	2.485G	48.36	54.00	-5.64	3	Horizontal	309	1.08
2437MHz	Pass	PK	2.389G	60.63	74.00	-13.37	3	Horizontal	309	1.08
2437MHz	Pass	PK	2.437G	112.68	Inf	-Inf	3	Horizontal	309	1.08
2437MHz	Pass	PK	2.4906G	60.03	74.00	-13.97	3	Horizontal	309	1.08
2437MHz	Pass	AV	4.87802G	33.37	54.00	-20.63	3	Vertical	58	1.50
2437MHz	Pass	PK	4.87886G	46.97	74.00	-27.03	3	Vertical	58	1.50
2437MHz	Pass	AV	4.874G	35.64	54.00	-18.36	3	Horizontal	320	1.00
2437MHz	Pass	PK	4.88192G	47.06	74.00	-26.94	3	Horizontal	320	1.00
2457MHz	Pass	AV	2.4562G	108.07	Inf	-Inf	3	Horizontal	326	1.00
2457MHz	Pass	AV	2.4835G	52.34	54.00	-1.66	3	Horizontal	326	1.00
2457MHz	Pass	PK	2.457G	110.59	Inf	-Inf	3	Horizontal	326	1.00
2457MHz	Pass	PK	2.4835G	61.62	74.00	-12.38	3	Horizontal	326	1.00
2462MHz	Pass	AV	2.4628G	107.63	Inf	-Inf	3	Horizontal	326	1.22
2462MHz	Pass	AV	2.4835G	52.94	54.00	-1.06	3	Horizontal	326	1.22
2462MHz	Pass	PK	2.462G	110.20	Inf	-Inf	3	Horizontal	326	1.22
2462MHz	Pass	PK	2.488G	61.71	74.00	-12.29	3	Horizontal	326	1.22
2462MHz	Pass	AV	4.924G	35.60	54.00	-18.40	3	Vertical	205	2.88
2462MHz	Pass	PK	4.92418G	46.68	74.00	-27.32	3	Vertical	205	2.88
2462MHz	Pass	AV	4.924G	38.05	54.00	-15.95	3	Horizontal	316	1.00
2462MHz	Pass	PK	4.92406G	47.65	74.00	-26.35	3	Horizontal	316	1.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3898G	52.59	54.00	-1.41	3	Horizontal	329	1.24
2412MHz	Pass	AV	2.414G	100.66	Inf	-Inf	3	Horizontal	329	1.24
2412MHz	Pass	PK	2.39G	67.25	74.00	-6.75	3	Horizontal	329	1.24
2412MHz	Pass	PK	2.4136G	108.97	Inf	-Inf	3	Horizontal	329	1.24
2412MHz	Pass	AV	4.83426G	33.34	54.00	-20.66	3	Vertical	72	1.50
2412MHz	Pass	PK	4.83594G	46.68	74.00	-27.32	3	Vertical	72	1.50
2412MHz	Pass	AV	4.82394G	33.65	54.00	-20.35	3	Horizontal	330	1.49
2412MHz	Pass	PK	4.83006G	47.25	74.00	-26.75	3	Horizontal	330	1.49
2417MHz	Pass	AV	2.39G	52.77	54.00	-1.23	3	Horizontal	329	1.24
2417MHz	Pass	AV	2.4146G	102.40	Inf	-Inf	3	Horizontal	329	1.24
2417MHz	Pass	PK	2.3898G	67.59	74.00	-6.41	3	Horizontal	329	1.24
2417MHz	Pass	PK	2.4186G	110.52	Inf	-Inf	3	Horizontal	329	1.24
2437MHz	Pass	AV	2.3898G	49.57	54.00	-4.43	3	Horizontal	327	1.37
2437MHz	Pass	AV	2.439G	105.33	Inf	-Inf	3	Horizontal	327	1.37
2437MHz	Pass	AV	2.4835G	52.90	54.00	-1.10	3	Horizontal	327	1.37
2437MHz	Pass	PK	2.3858G	62.93	74.00	-11.07	3	Horizontal	327	1.37
2437MHz	Pass	PK	2.4398G	113.55	Inf	-Inf	3	Horizontal	327	1.37
2437MHz	Pass	PK	2.4835G	67.12	74.00	-6.88	3	Horizontal	327	1.37
2437MHz	Pass	AV	4.87748G	33.52	54.00	-20.48	3	Vertical	226	1.50
2437MHz	Pass	PK	4.87922G	46.42	74.00	-27.58	3	Vertical	226	1.50
2437MHz	Pass	AV	4.87832G	33.68	54.00	-20.32	3	Horizontal	3	1.50
2437MHz	Pass	PK	4.8782G	46.17	74.00	-27.83	3	Horizontal	3	1.50
2457MHz	Pass	AV	2.4544G	101.44	Inf	-Inf	3	Horizontal	328	1.00
2457MHz	Pass	AV	2.4835G	52.73	54.00	-1.27	3	Horizontal	328	1.00
2457MHz	Pass	PK	2.453G	109.48	Inf	-Inf	3	Horizontal	328	1.00

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2457MHz	Pass	PK	2.4835G	68.95	74.00	-5.05	3	Horizontal	328	1.00
2462MHz	Pass	AV	2.4642G	99.14	Inf	-Inf	3	Horizontal	327	1.57
2462MHz	Pass	AV	2.4835G	52.58	54.00	-1.42	3	Horizontal	327	1.57
2462MHz	Pass	PK	2.4634G	107.41	Inf	-Inf	3	Horizontal	327	1.57
2462MHz	Pass	PK	2.4835G	68.83	74.00	-5.17	3	Horizontal	327	1.57
2462MHz	Pass	AV	4.92022G	33.85	54.00	-20.15	3	Vertical	253	2.22
2462MHz	Pass	PK	4.9246G	46.95	74.00	-27.05	3	Vertical	253	2.22
2462MHz	Pass	AV	4.91998G	33.91	54.00	-20.09	3	Horizontal	360	1.50
2462MHz	Pass	PK	4.90924G	46.85	74.00	-27.15	3	Horizontal	360	1.50
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	51.45	54.00	-2.55	3	Horizontal	327	1.25
2412MHz	Pass	AV	2.4152G	100.03	Inf	-Inf	3	Horizontal	327	1.25
2412MHz	Pass	PK	2.39G	71.74	74.00	-2.26	3	Horizontal	327	1.25
2412MHz	Pass	PK	2.4152G	108.32	Inf	-Inf	3	Horizontal	327	1.25
2412MHz	Pass	AV	4.8332G	33.05	54.00	-20.95	3	Vertical	252	1.19
2412MHz	Pass	PK	4.82524G	45.90	74.00	-28.10	3	Vertical	252	1.19
2412MHz	Pass	AV	4.82408G	33.31	54.00	-20.69	3	Horizontal	328	1.48
2412MHz	Pass	PK	4.82572G	45.88	74.00	-28.12	3	Horizontal	328	1.48
2417MHz	Pass	AV	2.39G	52.25	54.00	-1.75	3	Horizontal	328	1.23
2417MHz	Pass	AV	2.4138G	101.71	Inf	-Inf	3	Horizontal	328	1.23
2417MHz	Pass	PK	2.39G	67.75	74.00	-6.25	3	Horizontal	328	1.23
2417MHz	Pass	PK	2.414G	110.87	Inf	-Inf	3	Horizontal	328	1.23
2437MHz	Pass	AV	2.3898G	49.59	54.00	-4.41	3	Horizontal	326	1.37
2437MHz	Pass	AV	2.4402G	105.04	Inf	-Inf	3	Horizontal	326	1.37
2437MHz	Pass	AV	2.4835G	52.76	54.00	-1.24	3	Horizontal	326	1.37
2437MHz	Pass	PK	2.389G	63.60	74.00	-10.40	3	Horizontal	326	1.37
2437MHz	Pass	PK	2.4402G	113.17	Inf	-Inf	3	Horizontal	326	1.37
2437MHz	Pass	PK	2.485G	68.95	74.00	-5.05	3	Horizontal	326	1.37
2437MHz	Pass	AV	4.87756G	33.51	54.00	-20.49	3	Vertical	75	3.00
2437MHz	Pass	PK	4.8768G	46.35	74.00	-27.65	3	Vertical	75	3.00
2437MHz	Pass	AV	4.87384G	33.60	54.00	-20.40	3	Horizontal	314	1.00
2437MHz	Pass	PK	4.86424G	46.07	74.00	-27.93	3	Horizontal	314	1.00
2457MHz	Pass	AV	2.4538G	100.97	Inf	-Inf	3	Horizontal	325	1.26
2457MHz	Pass	AV	2.4835G	52.65	54.00	-1.35	3	Horizontal	325	1.26
2457MHz	Pass	PK	2.454G	110.15	Inf	-Inf	3	Horizontal	325	1.26
2457MHz	Pass	PK	2.4836G	68.75	74.00	-5.25	3	Horizontal	325	1.26
2462MHz	Pass	AV	2.465G	98.87	Inf	-Inf	3	Horizontal	324	1.57
2462MHz	Pass	AV	2.4835G	52.69	54.00	-1.31	3	Horizontal	324	1.57
2462MHz	Pass	PK	2.459G	107.24	Inf	-Inf	3	Horizontal	324	1.57
2462MHz	Pass	PK	2.4835G	70.79	74.00	-3.21	3	Horizontal	324	1.57
2462MHz	Pass	AV	4.9176G	33.76	54.00	-20.24	3	Vertical	42	1.06
2462MHz	Pass	PK	4.93016G	46.63	74.00	-27.37	3	Vertical	42	1.06
2462MHz	Pass	AV	4.924G	34.02	54.00	-19.98	3	Horizontal	314	1.00
2462MHz	Pass	PK	4.92G	46.46	74.00	-27.54	3	Horizontal	314	1.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.39G	52.76	54.00	-1.24	3	Horizontal	303	1.15
2422MHz	Pass	AV	2.4288G	96.87	Inf	-Inf	3	Horizontal	303	1.15
2422MHz	Pass	AV	2.4852G	47.75	54.00	-6.25	3	Horizontal	303	1.15
2422MHz	Pass	PK	2.39G	69.29	74.00	-4.71	3	Horizontal	303	1.15
2422MHz	Pass	PK	2.4288G	106.36	Inf	-Inf	3	Horizontal	303	1.15
2422MHz	Pass	PK	2.4835G	59.41	74.00	-14.59	3	Horizontal	303	1.15
2422MHz	Pass	AV	4.862G	33.35	54.00	-20.65	3	Vertical	153	2.67
2422MHz	Pass	PK	4.82576G	46.17	74.00	-27.83	3	Vertical	153	2.67
2422MHz	Pass	AV	4.8616G	33.25	54.00	-20.75	3	Horizontal	124	1.50
2422MHz	Pass	PK	4.83856G	45.18	74.00	-28.82	3	Horizontal	124	1.50
2427MHz	Pass	AV	2.3898G	52.24	54.00	-1.76	3	Horizontal	303	1.15
2427MHz	Pass	AV	2.4302G	97.41	Inf	-Inf	3	Horizontal	303	1.15
2427MHz	Pass	AV	2.4835G	48.21	54.00	-5.79	3	Horizontal	303	1.15
2427MHz	Pass	PK	2.3898G	67.75	74.00	-6.25	3	Horizontal	303	1.15
2427MHz	Pass	PK	2.4338G	106.28	Inf	-Inf	3	Horizontal	303	1.15
2427MHz	Pass	PK	2.4858G	60.72	74.00	-13.28	3	Horizontal	303	1.15
2437MHz	Pass	AV	2.3898G	49.48	54.00	-4.52	3	Horizontal	303	1.37

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2437MHz	Pass	AV	2.4386G	97.82	Inf	-Inf	3	Horizontal	303	1.37
2437MHz	Pass	AV	2.4835G	52.75	54.00	-1.25	3	Horizontal	303	1.37
2437MHz	Pass	PK	2.3886G	64.59	74.00	-9.41	3	Horizontal	303	1.37
2437MHz	Pass	PK	2.4438G	106.90	Inf	-Inf	3	Horizontal	303	1.37
2437MHz	Pass	PK	2.4835G	69.46	74.00	-4.54	3	Horizontal	303	1.37
2437MHz	Pass	AV	4.87792G	33.47	54.00	-20.53	3	Vertical	22	1.50
2437MHz	Pass	PK	4.89104G	45.84	74.00	-28.16	3	Vertical	22	1.50
2437MHz	Pass	AV	4.87888G	33.46	54.00	-20.54	3	Horizontal	218	1.05
2437MHz	Pass	PK	4.88536G	45.56	74.00	-28.44	3	Horizontal	218	1.05
2447MHz	Pass	AV	2.389G	46.79	54.00	-7.21	3	Horizontal	326	1.37
2447MHz	Pass	AV	2.445G	96.67	Inf	-Inf	3	Horizontal	326	1.37
2447MHz	Pass	AV	2.4835G	52.82	54.00	-1.18	3	Horizontal	326	1.37
2447MHz	Pass	PK	2.3862G	59.91	74.00	-14.09	3	Horizontal	326	1.37
2447MHz	Pass	PK	2.4398G	105.78	Inf	-Inf	3	Horizontal	326	1.37
2447MHz	Pass	PK	2.4835G	70.36	74.00	-3.64	3	Horizontal	326	1.37
2452MHz	Pass	AV	2.3888G	46.22	54.00	-7.78	3	Horizontal	326	1.37
2452MHz	Pass	AV	2.4464G	95.76	Inf	-Inf	3	Horizontal	326	1.37
2452MHz	Pass	AV	2.4835G	52.74	54.00	-1.26	3	Horizontal	326	1.37
2452MHz	Pass	PK	2.3756G	58.61	74.00	-15.39	3	Horizontal	326	1.37
2452MHz	Pass	PK	2.4452G	105.23	Inf	-Inf	3	Horizontal	326	1.37
2452MHz	Pass	PK	2.4835G	68.30	74.00	-5.70	3	Horizontal	326	1.37
2452MHz	Pass	AV	4.91928G	33.96	54.00	-20.04	3	Vertical	128	1.00
2452MHz	Pass	PK	4.9036G	46.48	74.00	-27.52	3	Vertical	128	1.00
2452MHz	Pass	AV	4.91952G	33.94	54.00	-20.06	3	Horizontal	298	1.18
2452MHz	Pass	PK	4.91336G	46.15	74.00	-27.85	3	Horizontal	298	1.18

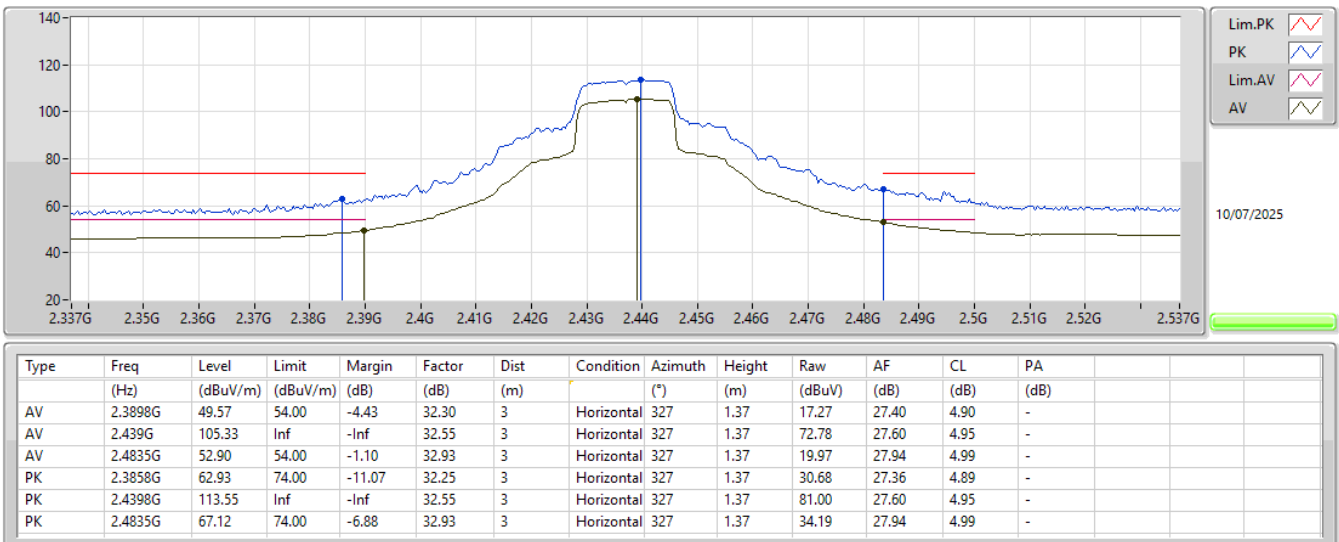
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2417MHz_TX



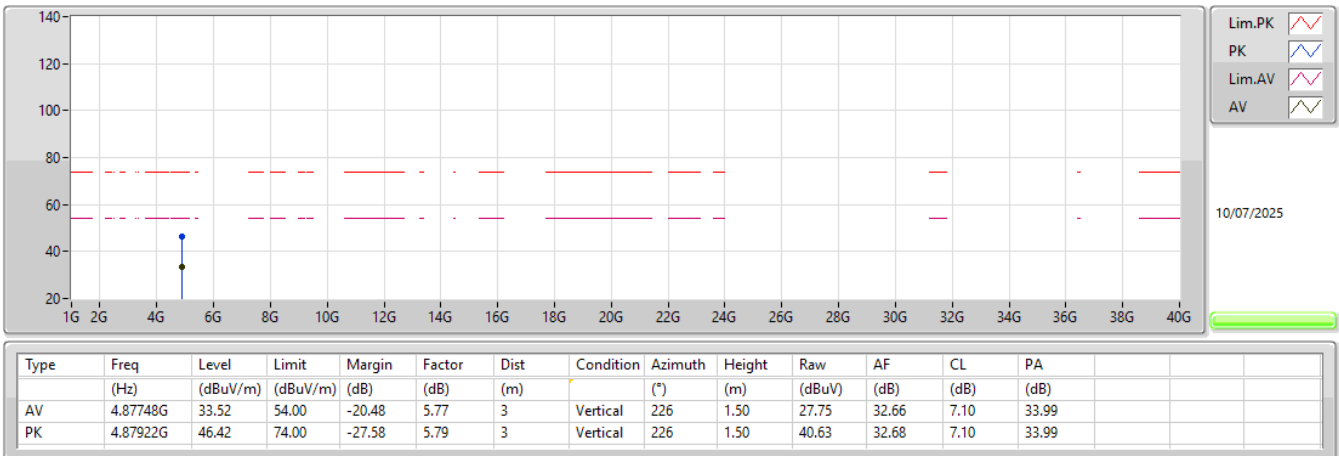
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX



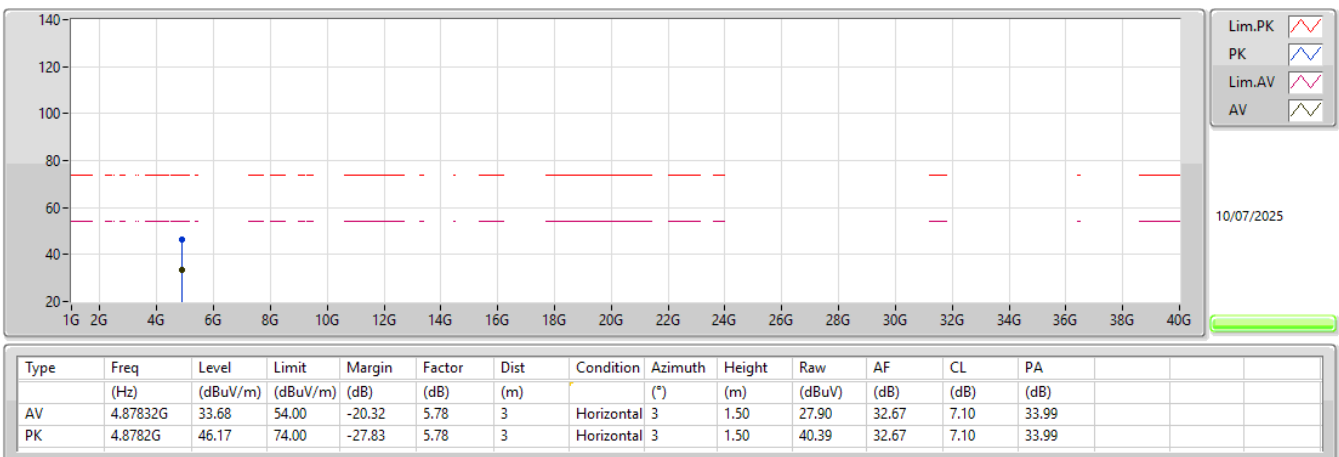
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX



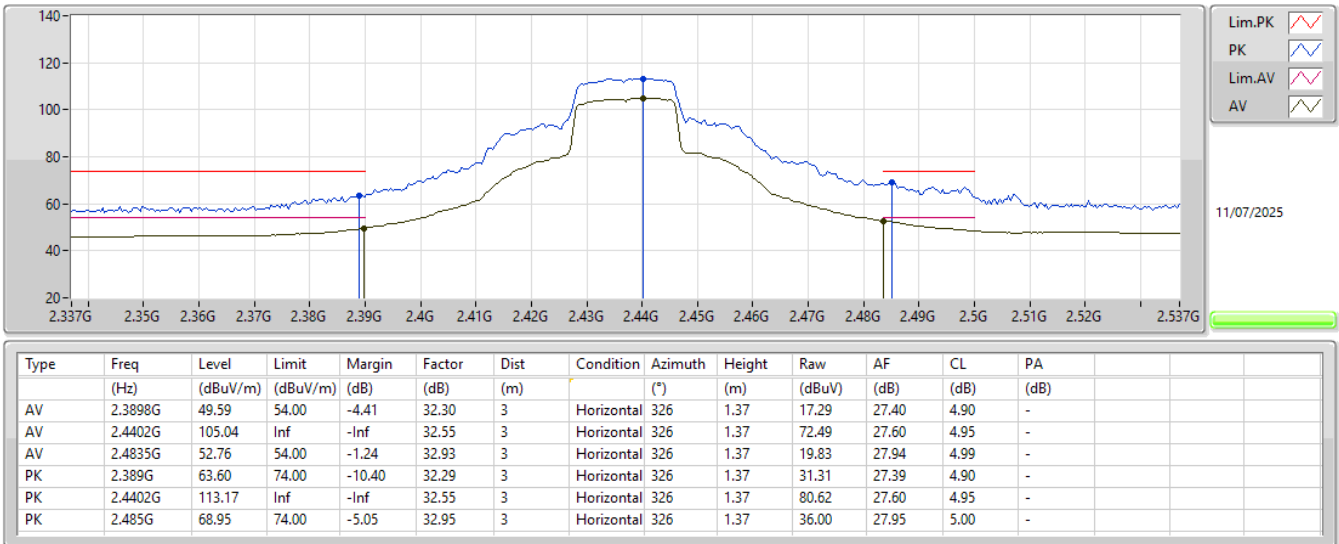
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX



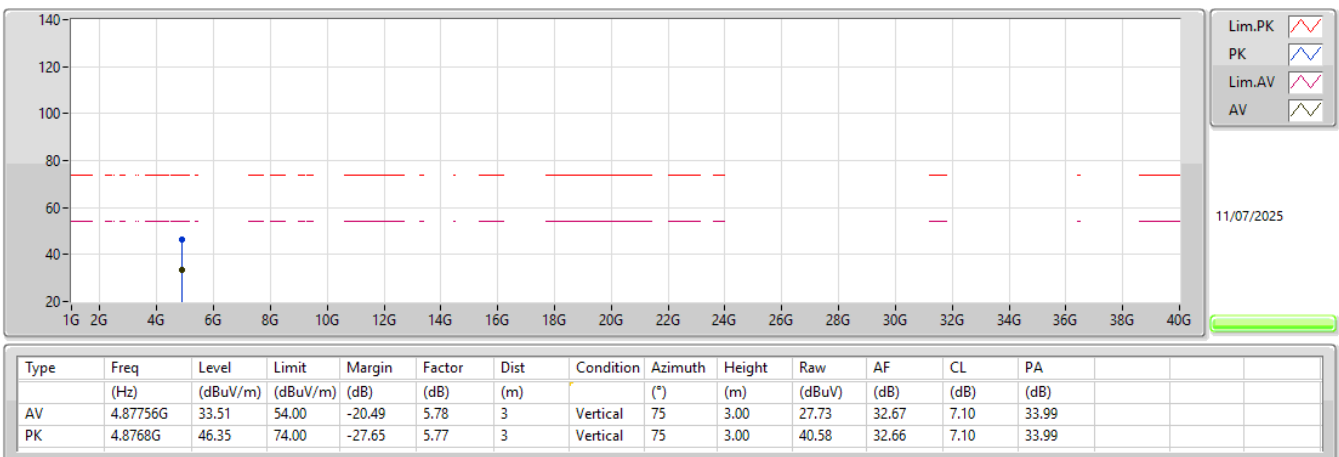
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2437MHz_TX



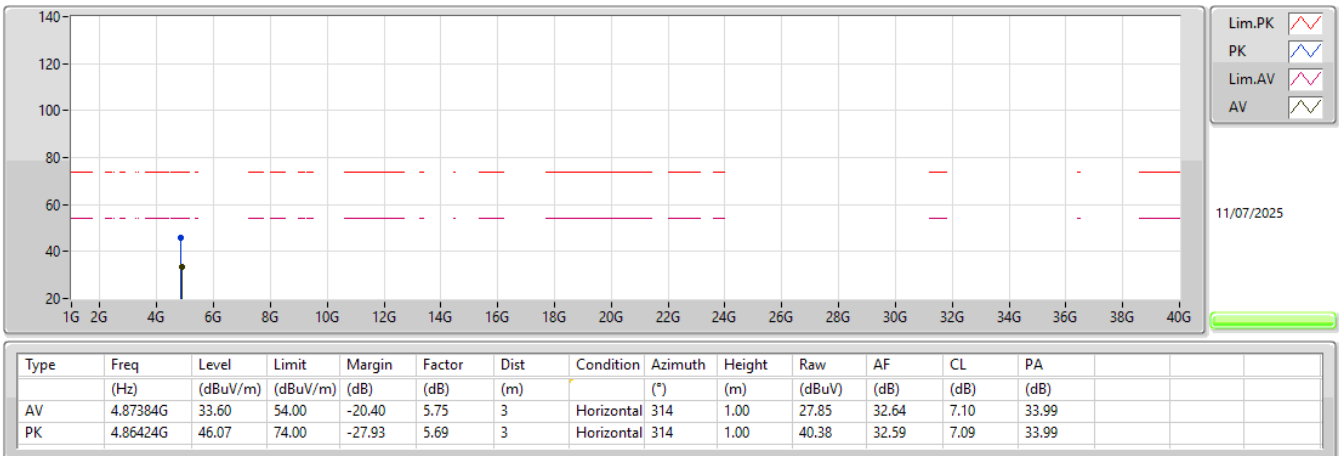
2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2437MHz_TX



2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX



2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2447MHz_TX

