

FCC Radio Test Report

FCC ID : TLZ-CU640

Equipment : IEEE802.11 a/b/g/n/ac/ax and Bluetooth LE
5.4 LGA Module

Brand Name : AzureWave

Model Name : AW-CU640-P , AW-CU642-P , AW-CU699-P ,
AW-CU640-E , AW-CU642-E , AW-CU699-E

Applicant : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist.,
New Taipei City , Taiwan 231

Manufacturer : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist.,
New Taipei City , Taiwan 231

Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 14, 2025, and testing was started from Jul. 18, 2025 and completed on Aug. 01, 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 ANSIC63.10-2020 + 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.)



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History of this test report

Report No.	Version	Description	Issued Date
FR570905AC	01	Initial issue of report	Dec. 10, 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: Debby Hung

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), VHT20, ax(HEW20)	2412-2462	1-11 [11]

Band	Mode	BWch	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11ax HEW20	20	1TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Evaluated HEW20 mode only due to the similar modulation. The power setting of HT20/ VHT20 mode are the same or lower than HEW20.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	ARISTOTLE	RFA-27-JP326MHF4C198	PIFA	I-Pex
2	ARISTOTLE	RFA-27-JP326-C198	PIFA	I-Pex
3	AzureWave	AW-CU640	PCB	N/A

Ant.	Port	Gain (dBi)									BT
		2.4G	5G				6G				
			UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	
1	1	3.5	5	5	5	5	5	5	5	5	3.5
2	1	3.5	5	5	5	5	5	5	5	5	3.5
3	1	2.75	2.34	2.34	3.34	3.34	2.09	1.99	2.05	2.17	2.75

Note 1: The EUT has three antennas.

Note 2: EUT can match with above antennas for using. The highest gain of antenna was used to perform the worst configuration and result of that was recorded as the final test result.

For 2.4GHz function:

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

Ant. 1, Ant. 2 and Ant. 3 could transmit/receive.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)
Ant. 1, Ant. 2 and Ant. 3 could transmit/receive.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (1TX/1RX)
Ant. 1, Ant. 2 and Ant. 3 could transmit/receive.

For 6GHz function:

For IEEE 802.11 ax mode (1TX/1RX)
Ant. 1, Ant. 2 and Ant. 3 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	
Resource Unit	☒ Full RU	☐ Partial RU	
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	0.998	0.01	8.613m	10Hz (DC>=0.98)
802.11g_Nss1,(6Mbps)_1TX	0.981	0.08	1.431m	10Hz (DC>=0.98)
802.11ax HEW20_Nss1,(MCS0)_1TX	0.982	0.08	1.491m	10Hz (DC>=0.98)

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

1.1.5 Table for Multiple Listing

Model	Antenna Type	Chipset	WLAN 2.4G	WLAN 5G	WLAN 6G	Bluetooth	Description
AW-CU640-P	PCB	CYW55913	V	V	V	V	The EUT has six model names that are identical in all aspects except for the supported wireless functionalities and antenna type. The wireless differences are implemented solely through software configuration, with the firmware being the same and requiring no hardware changes.
AW-CU642-P		CYW55912	V	V	X	V	
AW-CU699-P		CYW55911	V	X	X	V	
AW-CU640-E	PIFA	CYW55913	V	V	V	V	
AW-CU642-E		CYW55912	V	V	X	V	
AW-CU699-E		CYW55911	V	X	X	V	

Note : The above information was declared by manufacturer.

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	Lego Lin	23.2~23.8℃ / 58~64%	25/Jul/2025
RF Conducted	TH01-HY	Jin Jing	22.8~23.8℃ / 53~61%	23/Jul/2025~01/Aug/2025
☒ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH24-HY	Jack Tang	20.5~22.1℃ / 57~61%	18/Jul/2025~29/Jul/2025

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	Terminal version 28.10.400.1
Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	75
2437MHz	71
2457MHz	69
2462MHz	69
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	73
2417MHz	74
2437MHz	79
2457MHz	73
2462MHz	70
802.11ax HEW20_Nss1,(MCS0)_1TX	-
2412MHz	75
2437MHz	75
2457MHz	74
2462MHz	73

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	Test 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

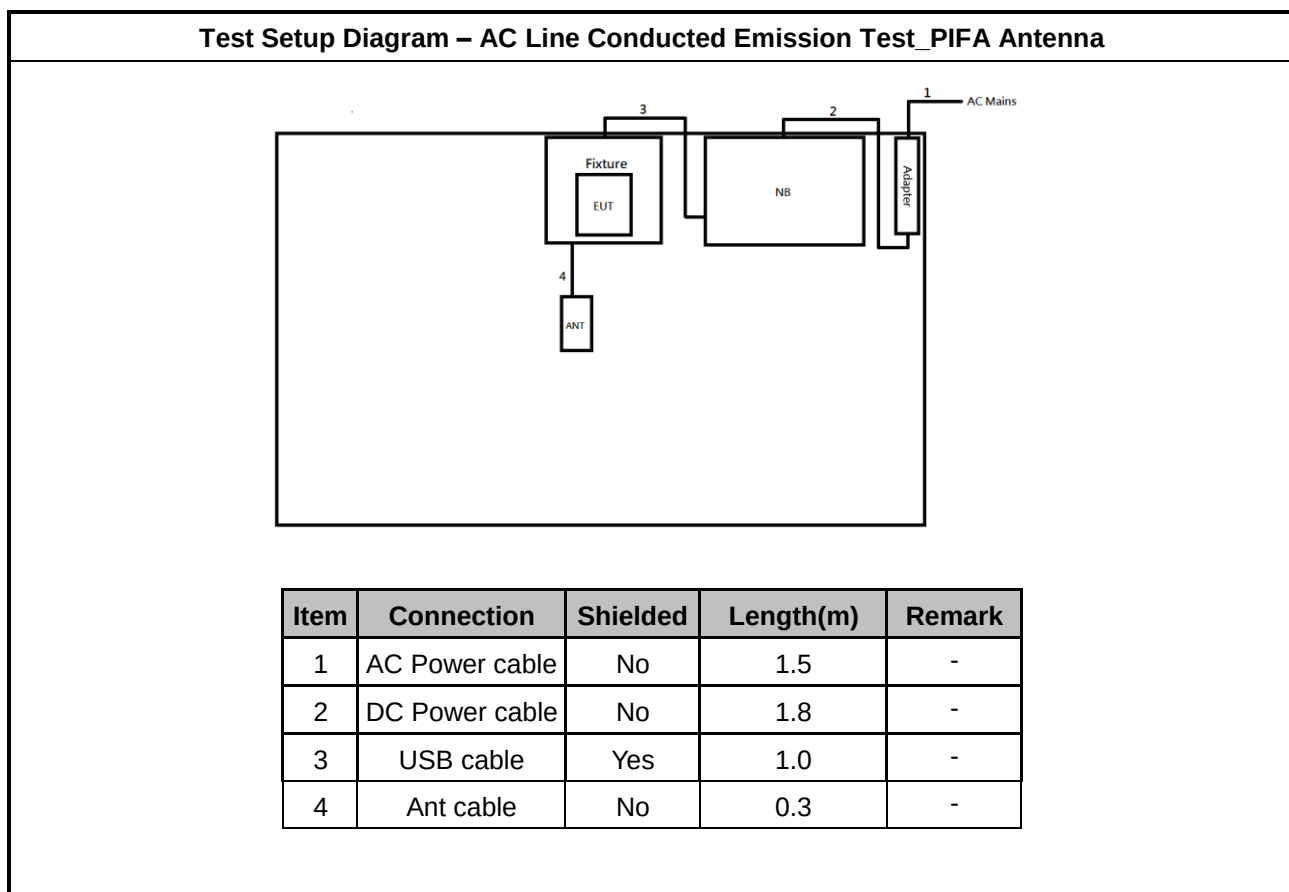
The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should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

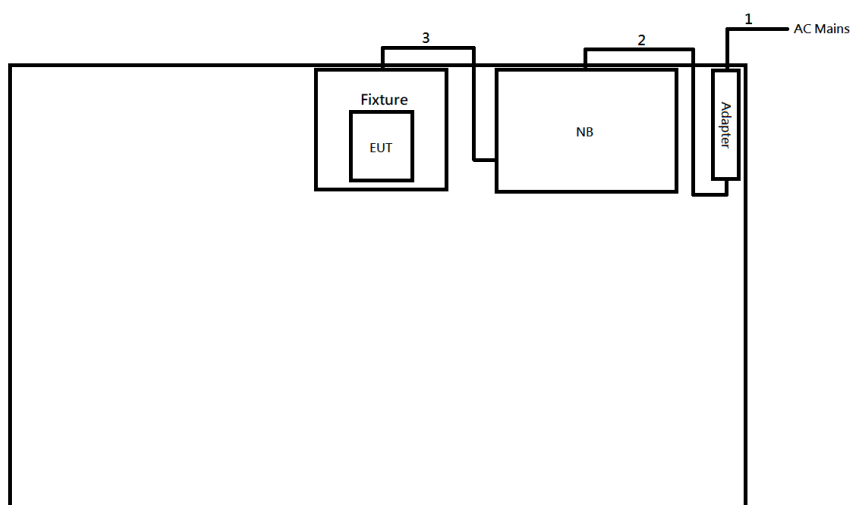
2.3 Support Equipment

Support Equipment – AC Conduction & Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Fixture	Azurewave	2640-I2	-	Provided by Customer
2	USB cable	Sporton	Sporton	-	-
3	NB	Lenovo	A19HTW	-	-
4	NB Adapter	Lenovo	ADLX45NDC3A	-	-

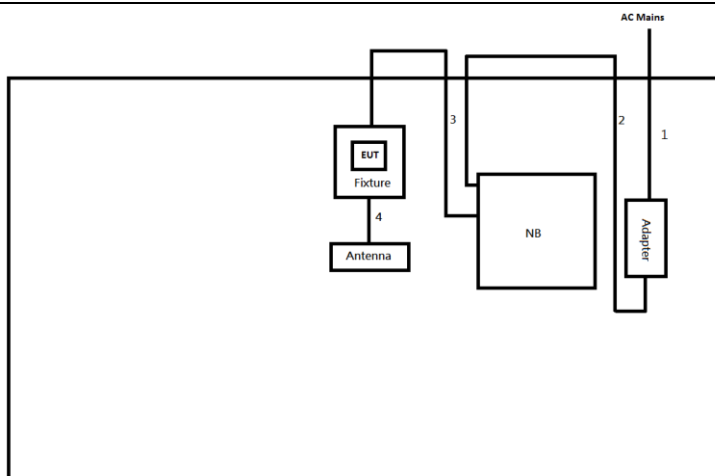
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Fixture	Azurewave	2640-I2	-	Provided by Customer

2.4 Test Setup Diagram

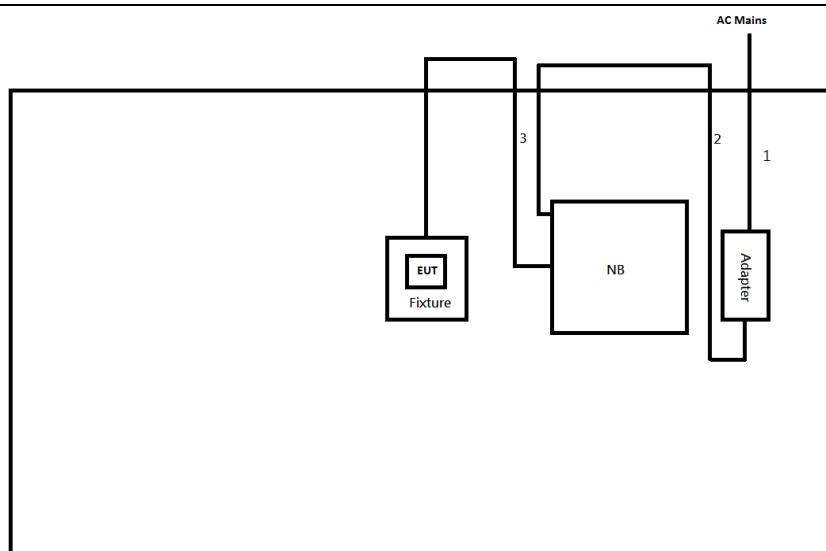


Test Setup Diagram – AC Line Conducted Emission Test_PCB Antenna


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.5	-
2	DC Power cable	No	1.8	-
3	USB cable	Yes	1.0	-

Test Setup Diagram - Radiated Test_PIFA Antenna


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.8	-
3	USB cable	Yes	1.0	-
4	Antenna Cable	No	0.3	-

Test Setup Diagram - Radiated Test_PCB Antenna


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

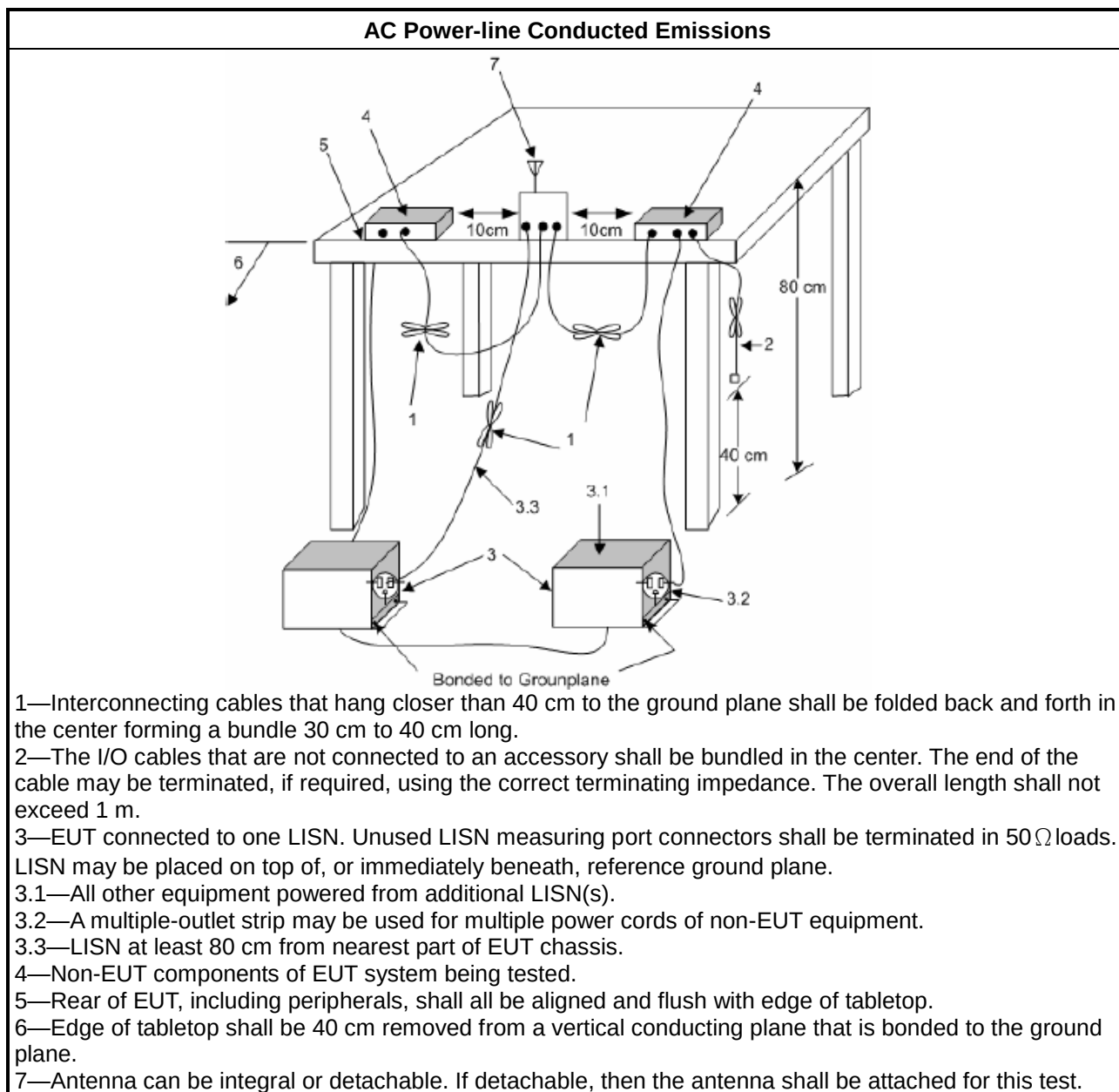
Test Method
☒ Refer as ANSI C63.10, clause 6.2 for AC power-line conducted emissions.

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.

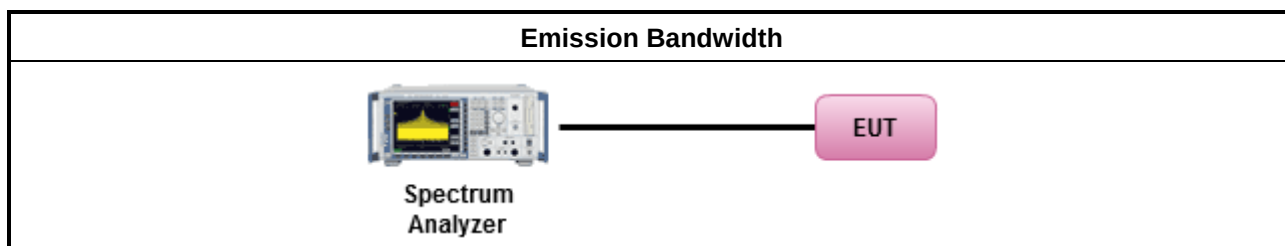
3.2.2 Measuring Instruments

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 $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB 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.	

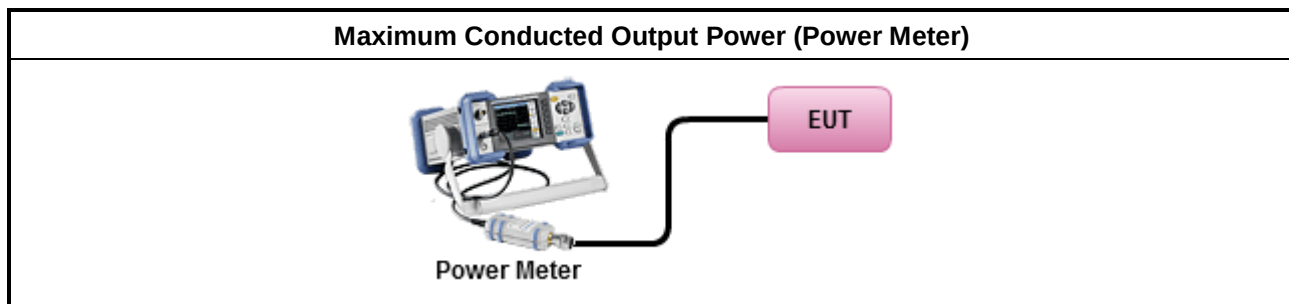
3.3.2 Measuring Instruments

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

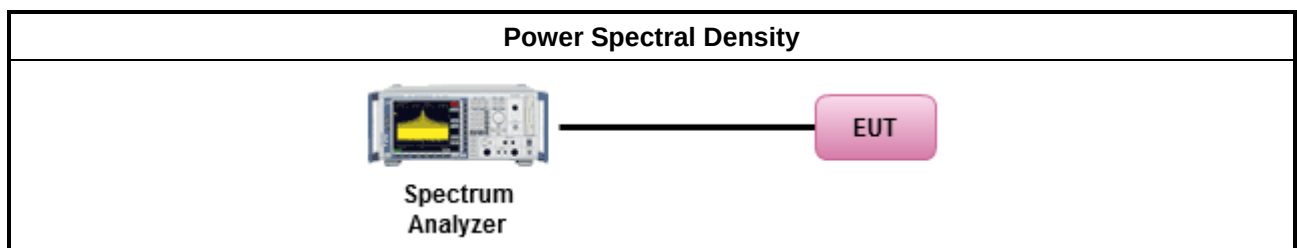
3.4.2 Measuring Instruments

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.	

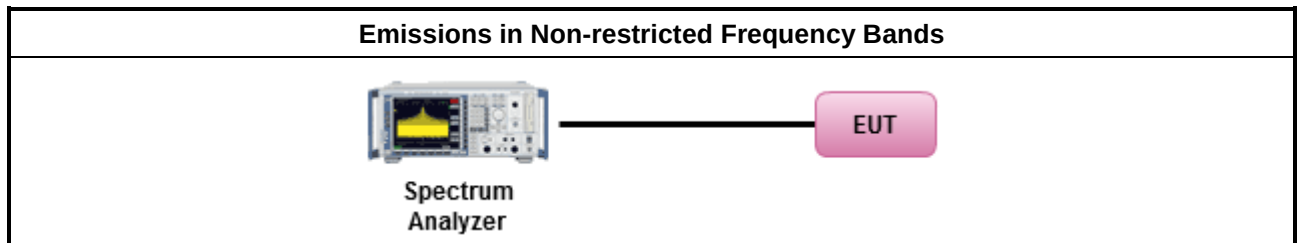
3.5.2 Measuring Instruments

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

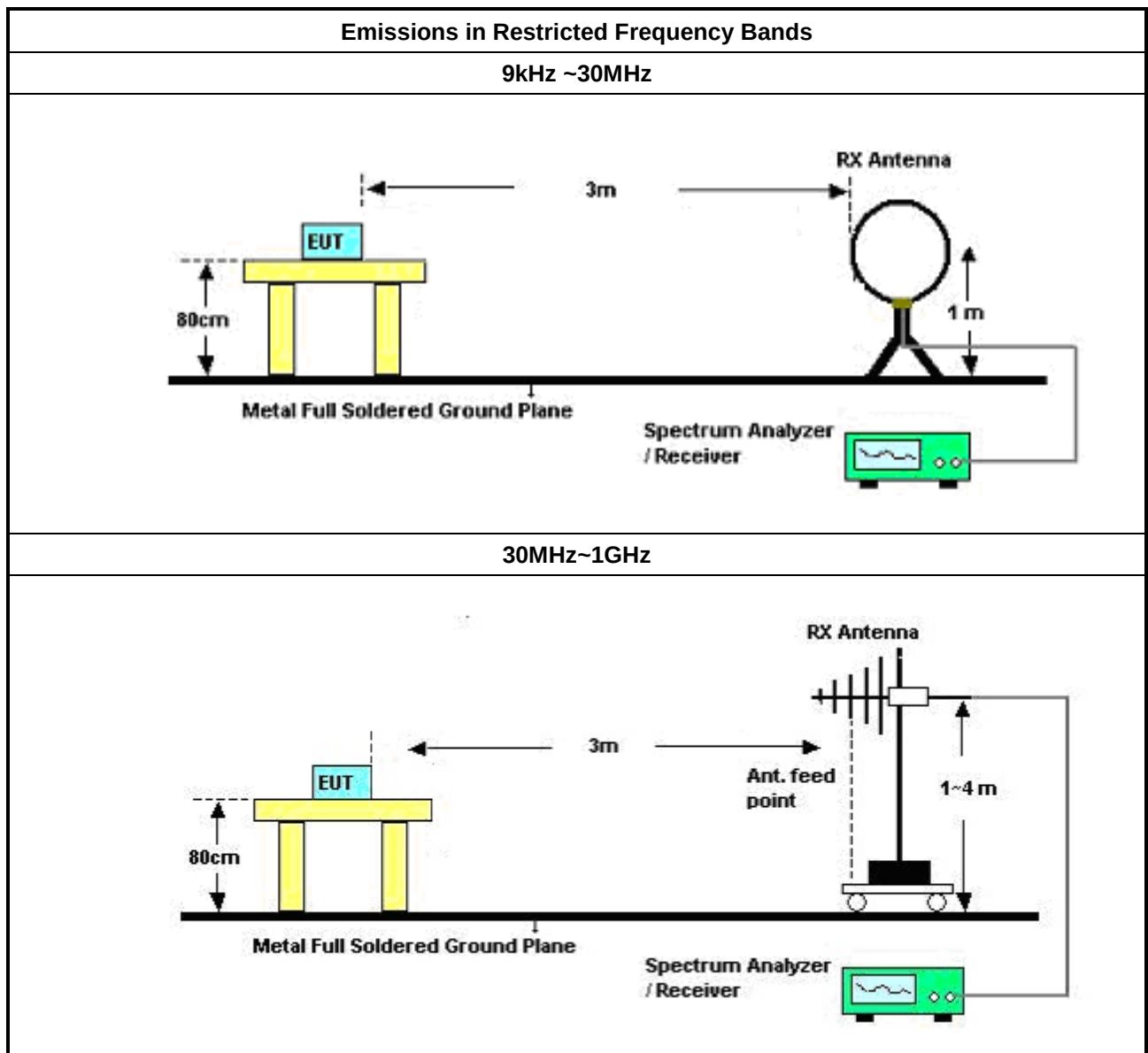
Test Method	
▪	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪	For the transmitter unwanted 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.

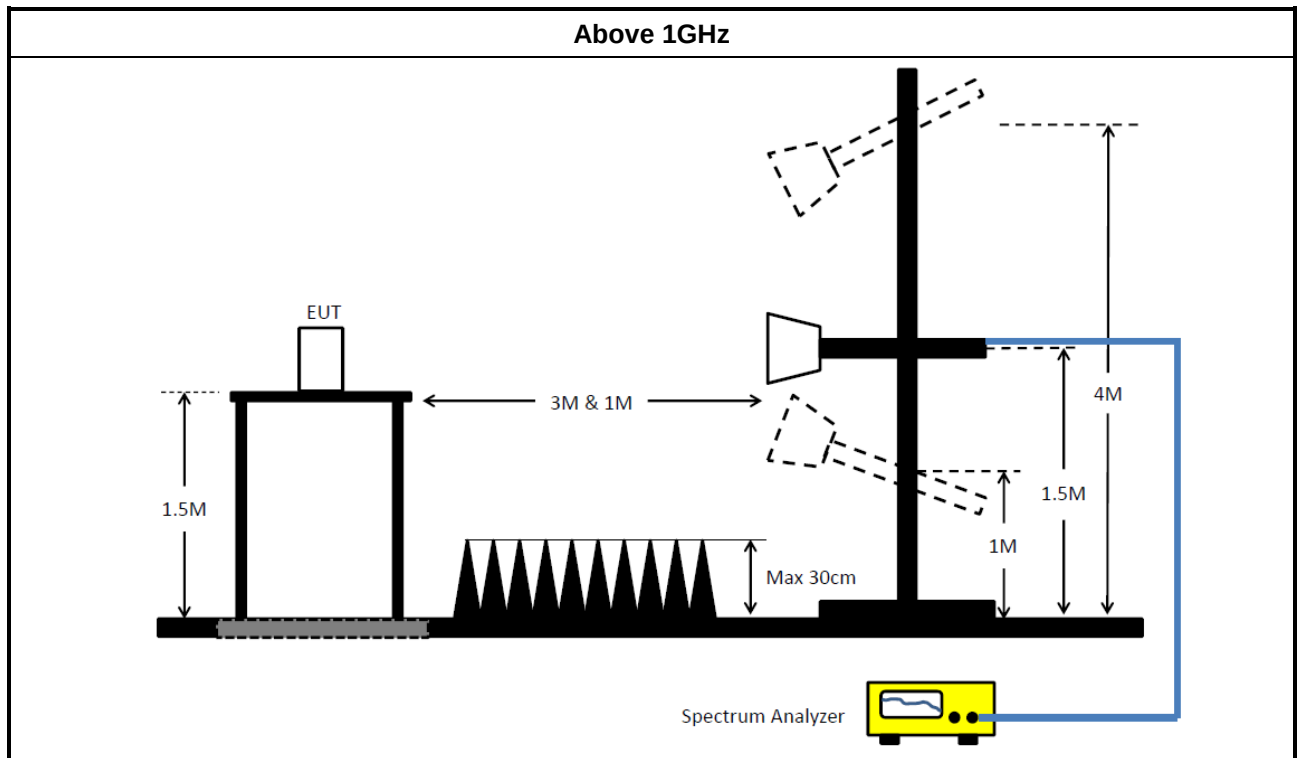
3.6.4 Measurement Results Calculation

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 Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV3044	101438	10Hz~44GHz	01/Nov/2024	30/Oct/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	949003	300MHz~40GHz	13/Feb/2025	12/Feb/2026
Pulse Sensor	Anritsu	MA2411B	917017	300MHz~40GHz	13/Feb/2025	12/Feb/2026
SENSE-15247_DTS	Sporton	V5.11.25	N/A	N/A	N/A	N/A

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	30MHz~1GHz 3m	16/Aug/2024	15/Aug/2025
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3m	30/Jul/2024	29/Jul/2025
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	06/Dec/2024	05/Dec/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101345	10Hz~44GHz	27/Aug/2024	26/Aug/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 6dB Attenuator	TESEQ / Woken	CBL 6112D / 00800N1D01N-06	35376 / 02	30MHz~1GHz	13/Apr/2025	12/Apr/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz~18GHz	15/Aug/2024	14/Aug/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	03CH24-cable-01	9kHz~40GHz	01/Oct/2024	30/Sep/2025
Pre-Amplifier	Aglient	8447D	2944A06292	30MHz~1GHz	08/Apr/2025	07/Apr/2026
Amplifier	EM	EM01G18G	060870	1GHz ~18GHz	12/Aug/2024	11/Aug/2025
Amplifier	EM	EM18G40GA	060874	18GHz ~40GHz	18/Apr/2025	17/Apr/2026
SENSE-15247-DTS	Sporton	V5.11.24	NA	NA	NA	NA



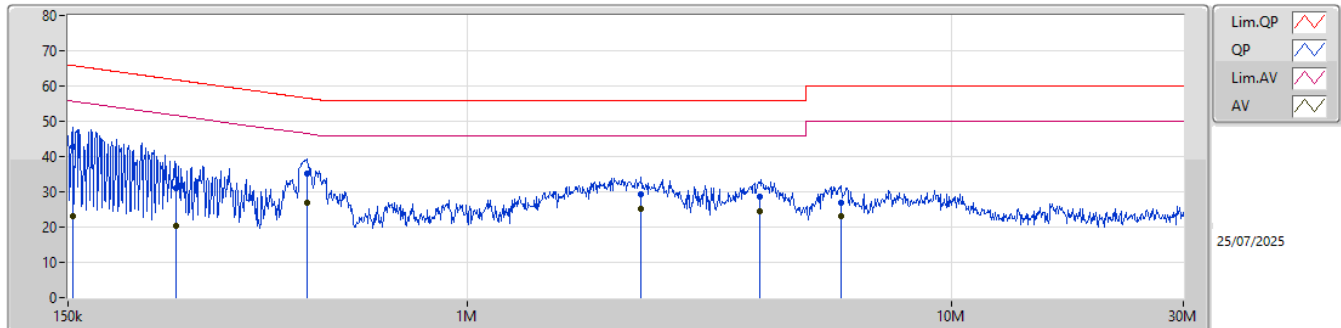
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	460.54k	28.98	46.69	-17.71	Neutral

Result

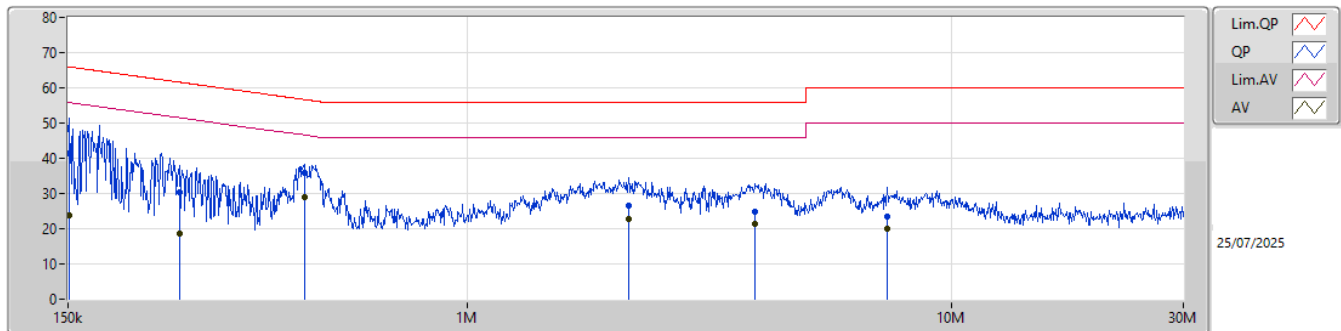
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	153.64k	42.59	65.81	-23.22	Line
Mode 1	Pass	AV	153.64k	23.24	55.81	-32.57	Line
Mode 1	Pass	QP	251.04k	31.03	61.72	-30.69	Line
Mode 1	Pass	AV	251.04k	20.21	51.72	-31.51	Line
Mode 1	Pass	QP	467.95k	35.21	56.55	-21.34	Line
Mode 1	Pass	AV	467.95k	26.94	46.55	-19.61	Line
Mode 1	Pass	QP	2.28M	29.24	56.00	-26.76	Line
Mode 1	Pass	AV	2.28M	25.21	46.00	-20.79	Line
Mode 1	Pass	QP	4.02M	28.45	56.00	-27.55	Line
Mode 1	Pass	AV	4.02M	24.34	46.00	-21.66	Line
Mode 1	Pass	QP	5.9M	26.76	60.00	-33.24	Line
Mode 1	Pass	AV	5.9M	22.99	50.00	-27.01	Line
Mode 1	Pass	QP	150.6k	41.41	65.96	-24.55	Neutral
Mode 1	Pass	AV	150.6k	23.86	55.96	-32.10	Neutral
Mode 1	Pass	QP	255.08k	30.31	61.58	-31.27	Neutral
Mode 1	Pass	AV	255.08k	18.66	51.58	-32.92	Neutral
Mode 1	Pass	QP	460.54k	35.96	56.69	-20.73	Neutral
Mode 1	Pass	AV	460.54k	28.98	46.69	-17.71	Neutral
Mode 1	Pass	QP	2.15M	26.43	56.00	-29.57	Neutral
Mode 1	Pass	AV	2.15M	22.78	46.00	-23.22	Neutral
Mode 1	Pass	QP	3.93M	24.90	56.00	-31.10	Neutral
Mode 1	Pass	AV	3.93M	21.33	46.00	-24.67	Neutral
Mode 1	Pass	QP	7.35M	23.45	60.00	-36.55	Neutral
Mode 1	Pass	AV	7.35M	19.96	50.00	-30.04	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	153.64k	42.59	65.81	-23.22	19.61	Line	-	22.98	9.63	0.01	9.97								
AV	153.64k	23.24	55.81	-32.57	19.61	Line	-	3.63	9.63	0.01	9.97								
QP	251.04k	31.03	61.72	-30.69	19.62	Line	-	11.41	9.63	0.02	9.97								
AV	251.04k	20.21	51.72	-31.51	19.62	Line	-	0.59	9.63	0.02	9.97								
QP	467.95k	35.21	56.55	-21.34	19.64	Line	-	15.57	9.63	0.03	9.98								
AV	467.95k	26.94	46.55	-19.61	19.64	Line	-	7.30	9.63	0.03	9.98								
QP	2.28M	29.24	56.00	-26.76	19.66	Line	-	9.58	9.66	0.03	9.97								
AV	2.28M	25.21	46.00	-20.79	19.66	Line	-	5.55	9.66	0.03	9.97								
QP	4.02M	28.45	56.00	-27.55	19.70	Line	-	8.75	9.67	0.05	9.98								
AV	4.02M	24.34	46.00	-21.66	19.70	Line	-	4.64	9.67	0.05	9.98								
QP	5.9M	26.76	60.00	-33.24	19.83	Line	-	6.93	9.72	0.13	9.98								
AV	5.9M	22.99	50.00	-27.01	19.83	Line	-	3.16	9.72	0.13	9.98								

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	150.6k	41.41	65.96	-24.55	19.71	Neutral	-	21.70	9.73	0.01	9.97								
AV	150.6k	23.86	55.96	-32.10	19.71	Neutral	-	4.15	9.73	0.01	9.97								
QP	255.08k	30.31	61.58	-31.27	19.71	Neutral	-	10.60	9.72	0.02	9.97								
AV	255.08k	18.66	51.58	-32.92	19.71	Neutral	-	-1.05	9.72	0.02	9.97								
QP	460.54k	35.96	56.69	-20.73	19.72	Neutral	-	16.24	9.71	0.03	9.98								
AV	460.54k	28.98	46.69	-17.71	19.72	Neutral	-	9.26	9.71	0.03	9.98								
QP	2.15M	26.43	56.00	-29.57	19.75	Neutral	-	6.68	9.75	0.03	9.97								
AV	2.15M	22.78	46.00	-23.22	19.75	Neutral	-	3.03	9.75	0.03	9.97								
QP	3.93M	24.90	56.00	-31.10	19.82	Neutral	-	5.08	9.79	0.05	9.98								
AV	3.93M	21.33	46.00	-24.67	19.82	Neutral	-	1.51	9.79	0.05	9.98								
QP	7.35M	23.45	60.00	-36.55	20.06	Neutral	-	3.39	9.90	0.18	9.98								
AV	7.35M	19.96	50.00	-30.04	20.06	Neutral	-	-0.10	9.90	0.18	9.98								



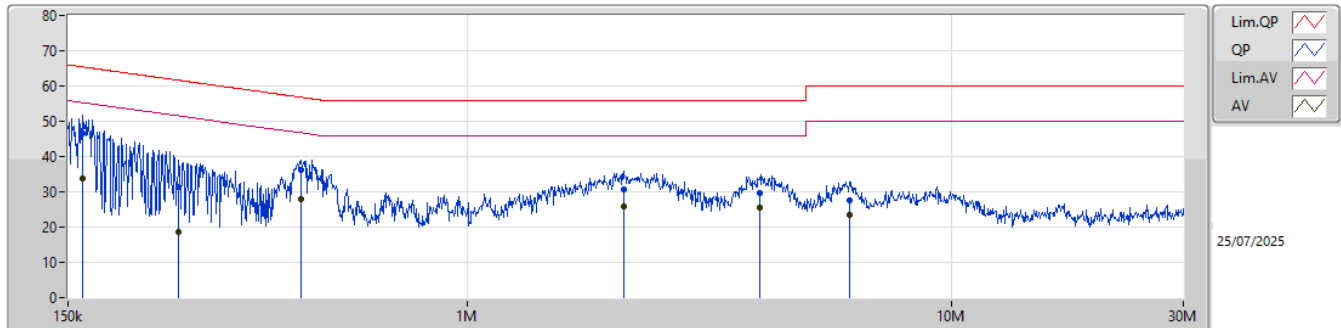
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	473.59k	29.89	46.46	-16.57	Neutral

Result

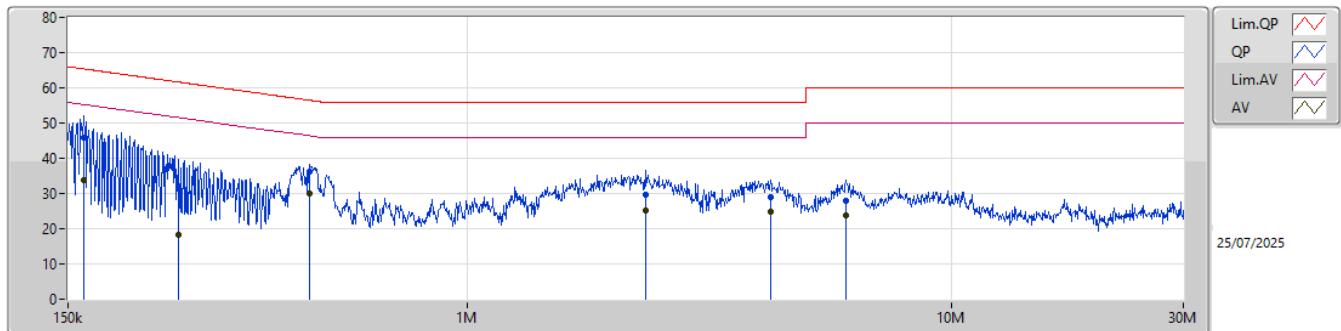
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	161.18k	46.66	65.41	-18.75	Line
Mode 1	Pass	AV	161.18k	33.69	55.41	-21.72	Line
Mode 1	Pass	QP	254.06k	31.38	61.62	-30.24	Line
Mode 1	Pass	AV	254.06k	18.79	51.62	-32.83	Line
Mode 1	Pass	QP	453.24k	36.11	56.82	-20.71	Line
Mode 1	Pass	AV	453.24k	27.99	46.82	-18.83	Line
Mode 1	Pass	QP	2.1M	30.71	56.00	-25.29	Line
Mode 1	Pass	AV	2.1M	25.97	46.00	-20.03	Line
Mode 1	Pass	QP	4.02M	29.81	56.00	-26.19	Line
Mode 1	Pass	AV	4.02M	25.50	46.00	-20.50	Line
Mode 1	Pass	QP	6.14M	27.66	60.00	-32.34	Line
Mode 1	Pass	AV	6.14M	23.62	50.00	-26.38	Line
Mode 1	Pass	QP	161.82k	45.97	65.37	-19.40	Neutral
Mode 1	Pass	AV	161.82k	33.87	55.37	-21.50	Neutral
Mode 1	Pass	QP	253.05k	32.04	61.66	-29.62	Neutral
Mode 1	Pass	AV	253.05k	18.33	51.66	-33.33	Neutral
Mode 1	Pass	QP	473.59k	36.34	56.46	-20.12	Neutral
Mode 1	Pass	AV	473.59k	29.89	46.46	-16.57	Neutral
Mode 1	Pass	QP	2.33M	29.65	56.00	-26.35	Neutral
Mode 1	Pass	AV	2.33M	25.11	46.00	-20.89	Neutral
Mode 1	Pass	QP	4.22M	29.12	56.00	-26.88	Neutral
Mode 1	Pass	AV	4.22M	24.83	46.00	-21.17	Neutral
Mode 1	Pass	QP	6.05M	27.89	60.00	-32.11	Neutral
Mode 1	Pass	AV	6.05M	23.93	50.00	-26.07	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	161.18k	46.66	65.41	-18.75	19.61	Line	-	27.05	9.63	0.01	9.97						
AV	161.18k	33.69	55.41	-21.72	19.61	Line	-	14.08	9.63	0.01	9.97						
QP	254.06k	31.38	61.62	-30.24	19.62	Line	-	11.76	9.63	0.02	9.97						
AV	254.06k	18.79	51.62	-32.83	19.62	Line	-	-0.83	9.63	0.02	9.97						
QP	453.24k	36.11	56.82	-20.71	19.64	Line	-	16.47	9.63	0.03	9.98						
AV	453.24k	27.99	46.82	-18.83	19.64	Line	-	8.35	9.63	0.03	9.98						
QP	2.1M	30.71	56.00	-25.29	19.66	Line	-	11.05	9.66	0.03	9.97						
AV	2.1M	25.97	46.00	-20.03	19.66	Line	-	6.31	9.66	0.03	9.97						
QP	4.02M	29.81	56.00	-26.19	19.70	Line	-	10.11	9.67	0.05	9.98						
AV	4.02M	25.50	46.00	-20.50	19.70	Line	-	5.80	9.67	0.05	9.98						
QP	6.14M	27.66	60.00	-32.34	19.84	Line	-	7.82	9.72	0.14	9.98						
AV	6.14M	23.62	50.00	-26.38	19.84	Line	-	3.78	9.72	0.14	9.98						

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	161.82k	45.97	65.37	-19.40	19.71	Neutral	-	26.26	9.73	0.01	9.97						
AV	161.82k	33.87	55.37	-21.50	19.71	Neutral	-	14.16	9.73	0.01	9.97						
QP	253.05k	32.04	61.66	-29.62	19.71	Neutral	-	12.33	9.72	0.02	9.97						
AV	253.05k	18.33	51.66	-33.33	19.71	Neutral	-	-1.38	9.72	0.02	9.97						
QP	473.59k	36.34	56.46	-20.12	19.72	Neutral	-	16.62	9.71	0.03	9.98						
AV	473.59k	29.89	46.46	-16.57	19.72	Neutral	-	10.17	9.71	0.03	9.98						
QP	2.33M	29.65	56.00	-26.35	19.75	Neutral	-	9.90	9.75	0.03	9.97						
AV	2.33M	25.11	46.00	-20.89	19.75	Neutral	-	5.36	9.75	0.03	9.97						
QP	4.22M	29.12	56.00	-26.88	19.84	Neutral	-	9.28	9.80	0.06	9.98						
AV	4.22M	24.83	46.00	-21.17	19.84	Neutral	-	4.99	9.80	0.06	9.98						
QP	6.05M	27.89	60.00	-32.11	19.99	Neutral	-	7.90	9.87	0.14	9.98						
AV	6.05M	23.93	50.00	-26.07	19.99	Neutral	-	3.94	9.87	0.14	9.98						

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	8.05M	11.821M	11M8G1D	7.3M	11.679M
802.11g_Nss1,(6Mbps)_1TX	16.35M	16.693M	16M7D1D	11.075M	16.413M
802.11ax HEW20_Nss1,(MCS0)_1TX	19.05M	19.001M	19M0D1D	18.7M	18.875M

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	8.05M	11.821M
2437MHz	Pass	500k	7.575M	11.815M
2462MHz	Pass	500k	7.3M	11.679M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.35M	16.413M
2437MHz	Pass	500k	11.075M	16.662M
2462MHz	Pass	500k	16.35M	16.693M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	19.05M	18.97M
2437MHz	Pass	500k	18.7M	18.875M
2462MHz	Pass	500k	19.025M	19.001M

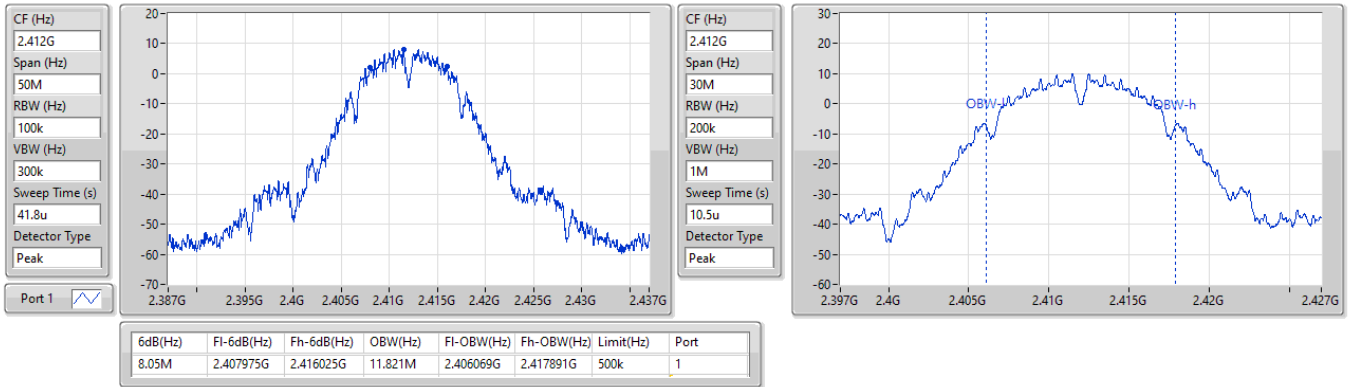
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

2412MHz

01/08/2025

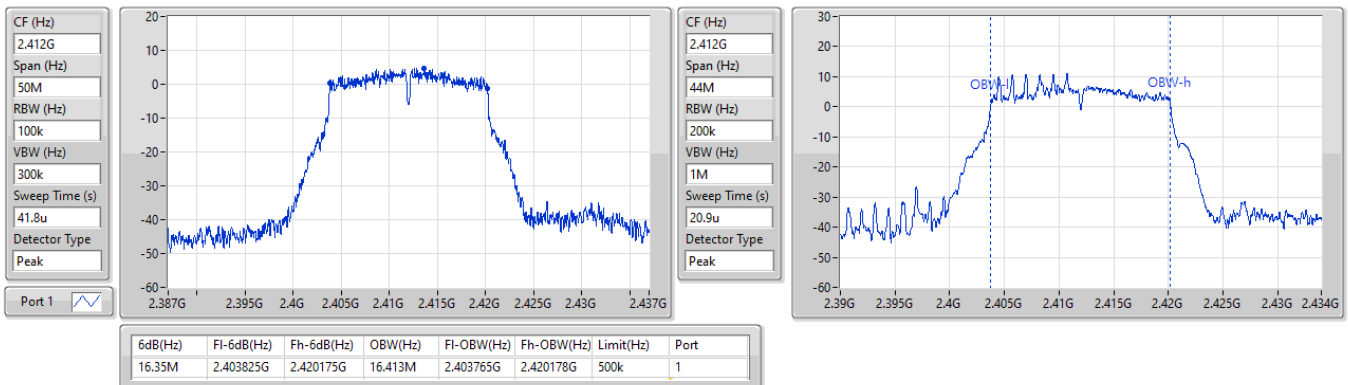


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

2412MHz

29/07/2025

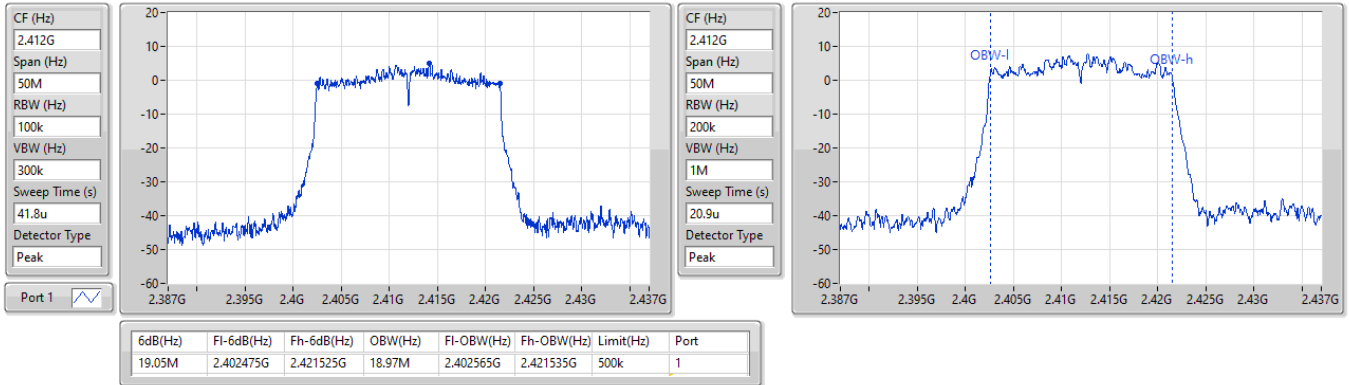


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

2412MHz

29/07/2025





Average Power

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	18.17	0.06561
802.11g_Nss1,(6Mbps)_1TX	20.99	0.12560
802.11ax HEW20_Nss1,(MCS0)_1TX	18.53	0.07129

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.50	18.17	18.17	30.00
2437MHz	Pass	3.50	17.22	17.22	30.00
2457MHz	Pass	3.50	16.77	16.77	30.00
2462MHz	Pass	3.50	16.59	16.59	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.50	18.76	18.76	30.00
2417MHz	Pass	3.50	19.33	19.33	30.00
2437MHz	Pass	3.50	20.99	20.99	30.00
2457MHz	Pass	3.50	19.01	19.01	30.00
2462MHz	Pass	3.50	17.99	17.99	30.00
802.11ax_HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.50	18.32	18.32	30.00
2437MHz	Pass	3.50	18.53	18.53	30.00
2457MHz	Pass	3.50	18.30	18.30	30.00
2462MHz	Pass	3.50	17.90	17.90	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	-5.16
802.11g_Nss1,(6Mbps)_1TX	-4.14
802.11ax HEW20_Nss1,(MCS0)_1TX	-8.10

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	3.50	-5.16	-5.16	8.00
2437MHz	Pass	3.50	-6.37	-6.37	8.00
2462MHz	Pass	3.50	-7.13	-7.13	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.50	-6.05	-6.05	8.00
2437MHz	Pass	3.50	-4.14	-4.14	8.00
2462MHz	Pass	3.50	-7.37	-7.37	8.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.50	-8.26	-8.26	8.00
2437MHz	Pass	3.50	-8.34	-8.34	8.00
2462MHz	Pass	3.50	-8.10	-8.10	8.00

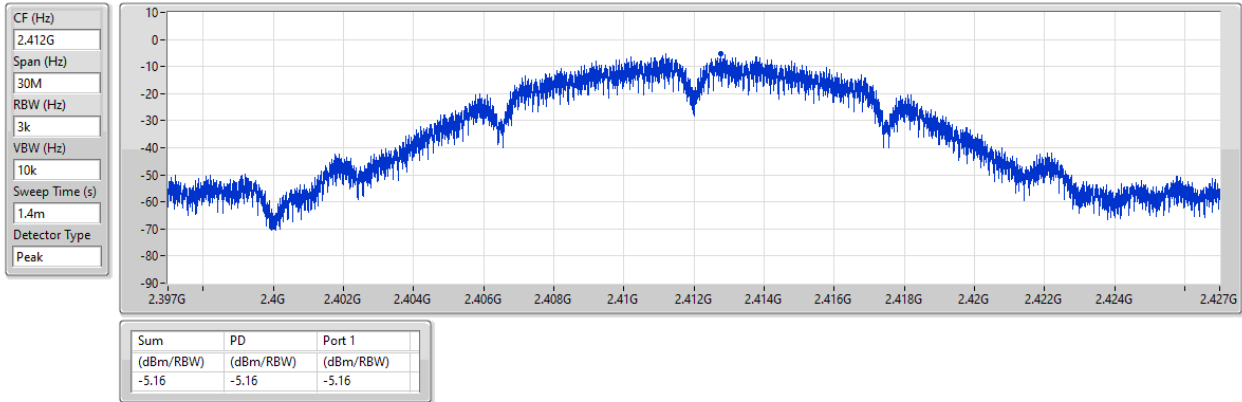
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
 Inf = There's no restriction for the limit.

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

PSD

2412MHz

01/08/2025

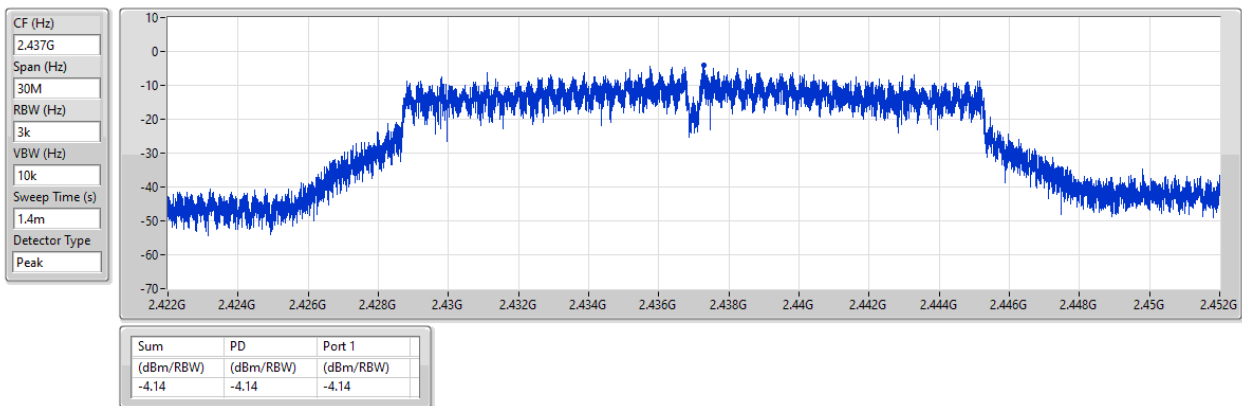


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

29/07/2025

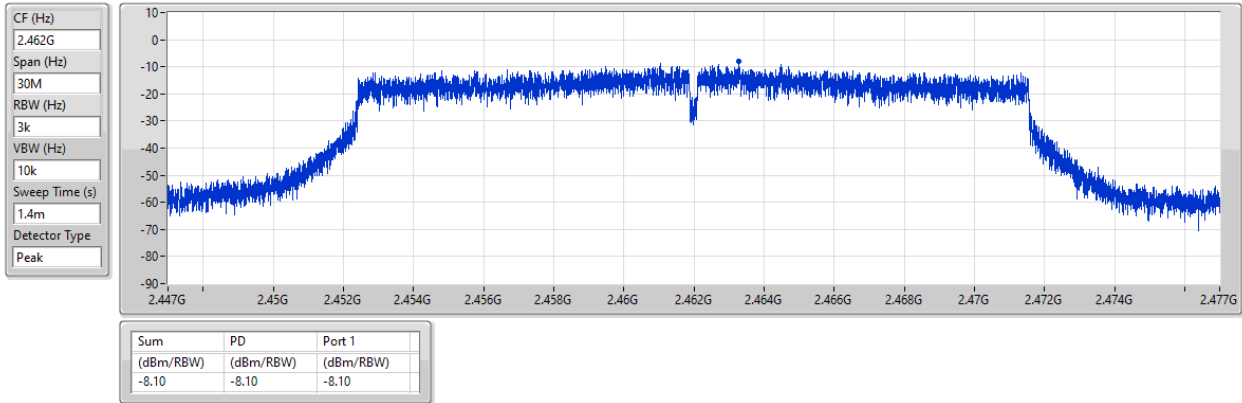


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

2462MHz

29/07/2025





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	2.41136G	9.71	-20.29	1.93827G	-54.46	2.39952G	-34.86	2.4G	-47.06	2.50982G	-54.98	21.8842G	-44.52	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.44192G	12.19	-17.81	2.30641G	-52.07	2.39696G	-28.20	2.4G	-32.11	2.50334G	-53.33	21.56952G	-44.47	1
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	2.44192G	9.26	-20.74	2.12234G	-55.03	2.39696G	-29.40	2.4G	-31.12	2.51734G	-53.59	21.77743G	-44.96	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	2.41136G	9.71	-20.29	1.93827G	-54.46	2.39952G	-34.86	2.4G	-47.06	2.50982G	-54.98	21.8842G	-44.52	1
2437MHz	Pass	2.41136G	9.71	-20.29	2.13399G	-54.88	2.39376G	-54.05	2.4G	-56.03	2.50094G	-54.86	21.84205G	-44.78	1
2462MHz	Pass	2.41136G	9.71	-20.29	1.87653G	-54.66	2.39136G	-54.36	2.4G	-55.74	2.5071G	-54.64	21.57514G	-44.43	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	12.19	-17.81	2.30641G	-52.07	2.39696G	-28.20	2.4G	-32.11	2.50334G	-53.33	21.56952G	-44.47	1
2437MHz	Pass	2.44192G	12.19	-17.81	2.18758G	-54.09	2.39704G	-32.45	2.4G	-37.28	2.50062G	-50.18	21.91229G	-42.43	1
2462MHz	Pass	2.44192G	12.19	-17.81	1.83575G	-54.80	2.39352G	-52.07	2.4G	-55.71	2.50198G	-47.10	21.60324G	-44.44	1
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	9.26	-20.74	2.12234G	-55.03	2.39696G	-29.40	2.4G	-31.12	2.51734G	-53.59	21.77743G	-44.96	1
2437MHz	Pass	2.44192G	9.26	-20.74	2.16545G	-54.08	2.39992G	-42.62	2.4G	-43.80	2.51918G	-53.49	21.45433G	-44.87	1
2462MHz	Pass	2.44192G	9.26	-20.74	2.14797G	-55.12	2.39672G	-52.82	2.4G	-54.36	2.5007G	-47.50	21.44309G	-45.01	1

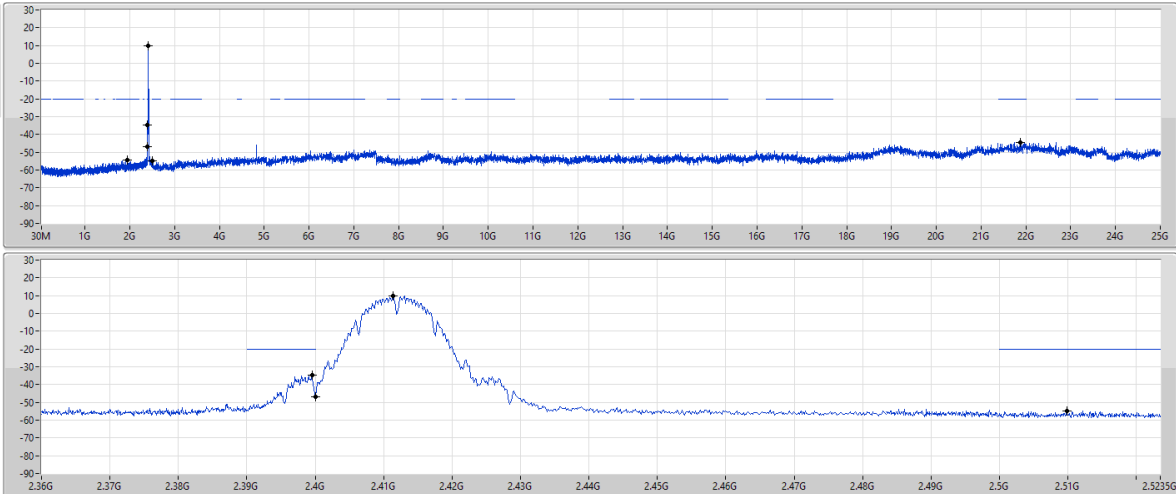
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2412MHz

01/08/2025

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



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
2.41136G	9.71	-20.29	1.93827G	-54.46	2.39952G	-34.86	2.4G	-47.06	2.50982G	-54.98	2.18842G	-44.52	1

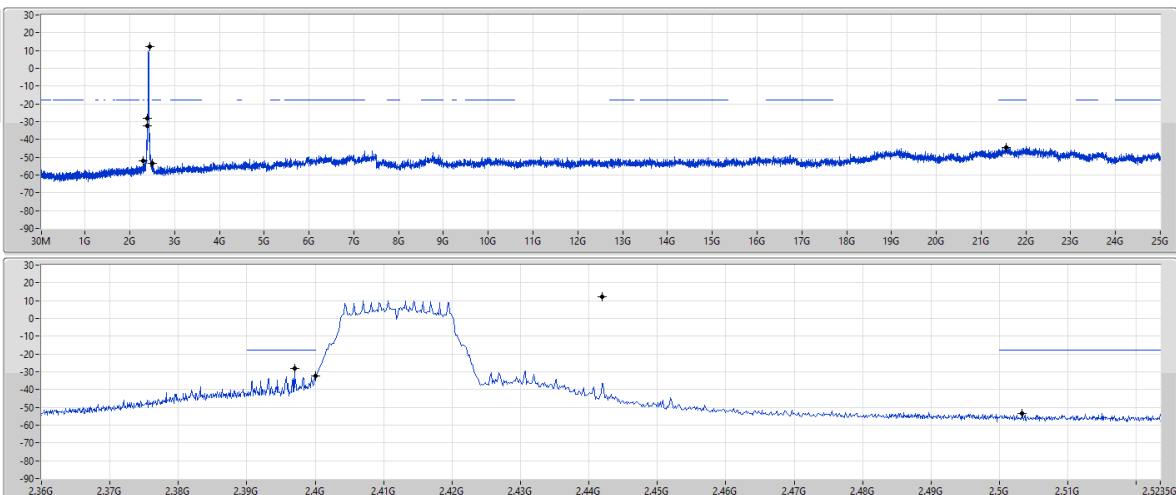
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

CSEndB

2412MHz

29/07/2025

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



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
2.44192G	12.19	-17.81	2.30641G	-52.07	2.39696G	-28.20	2.4G	-32.11	2.50334G	-53.33	2.156952G	-44.47	1

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

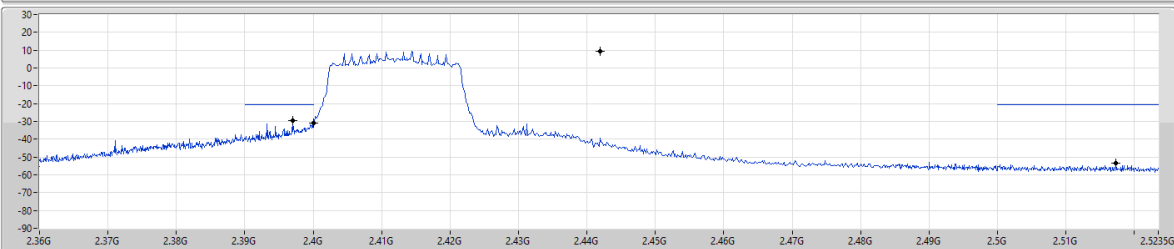
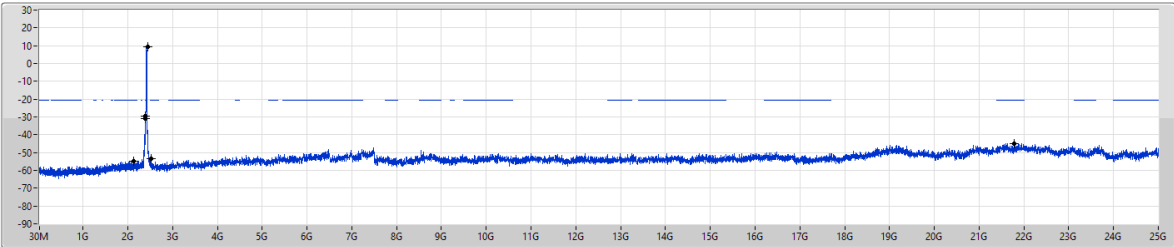
CSEndB

2412MHz

01/08/2025

Port 1

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



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
2.44192G	9.26	-20.74	2.12234G	-55.03	2.39696G	-29.40	2.4G	-31.12	2.51734G	-53.59	2.177743G	-44.96	1



Summary

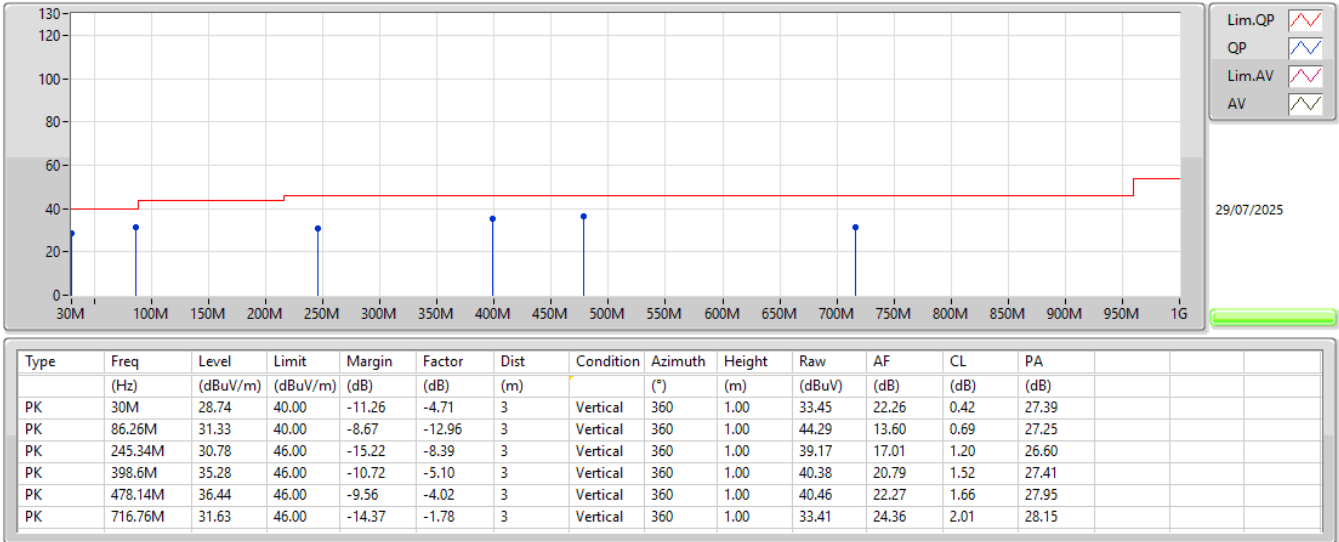
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11ax.HEW20_Nss1,(MCS0)_1TX	Pass	PK	86.26M	36.31	40.00	-3.69	3	Horizontal	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2437MHz_test fixture	Pass	PK	30M	28.74	40.00	-11.26	3	Vertical	360	1.00
2437MHz_test fixture	Pass	PK	86.26M	31.33	40.00	-8.67	3	Vertical	360	1.00
2437MHz_test fixture	Pass	PK	245.34M	30.78	46.00	-15.22	3	Vertical	360	1.00
2437MHz_test fixture	Pass	PK	398.6M	35.28	46.00	-10.72	3	Vertical	360	1.00
2437MHz_test fixture	Pass	PK	478.14M	36.44	46.00	-9.56	3	Vertical	360	1.00
2437MHz_test fixture	Pass	PK	716.76M	31.63	46.00	-14.37	3	Vertical	360	1.00
2437MHz_test fixture	Pass	PK	30M	35.17	40.00	-4.83	3	Horizontal	0	1.00
2437MHz_test fixture	Pass	PK	86.26M	36.31	40.00	-3.69	3	Horizontal	0	1.00
2437MHz_test fixture	Pass	PK	245.34M	32.97	46.00	-13.03	3	Horizontal	0	1.00
2437MHz_test fixture	Pass	PK	334.58M	39.35	46.00	-6.65	3	Horizontal	0	1.00
2437MHz_test fixture	Pass	PK	478.14M	41.78	46.00	-4.22	3	Horizontal	0	1.00
2437MHz_test fixture	Pass	PK	598.42M	32.07	46.00	-13.93	3	Horizontal	0	1.00

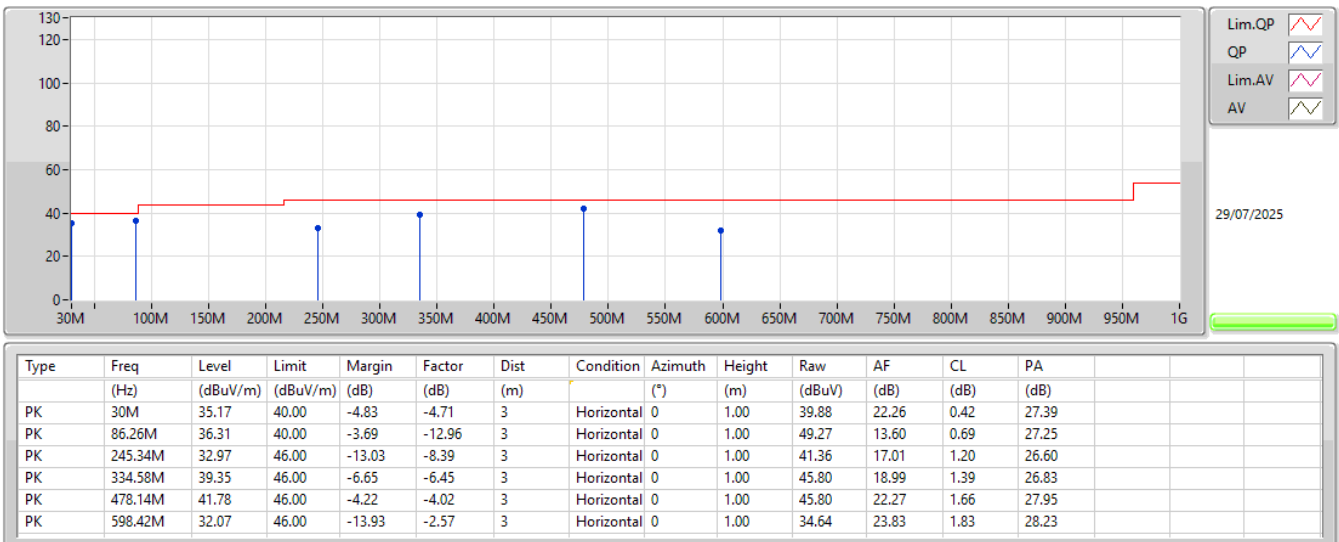
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_test fixture



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_test 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	7.3102G	52.97	54.00	-1.03	3	Horizontal	292	1.02
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.3894G	52.66	54.00	-1.34	3	Horizontal	296	1.14
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	PK	2.3874G	72.54	74.00	-1.46	3	Horizontal	297	1.15

Result

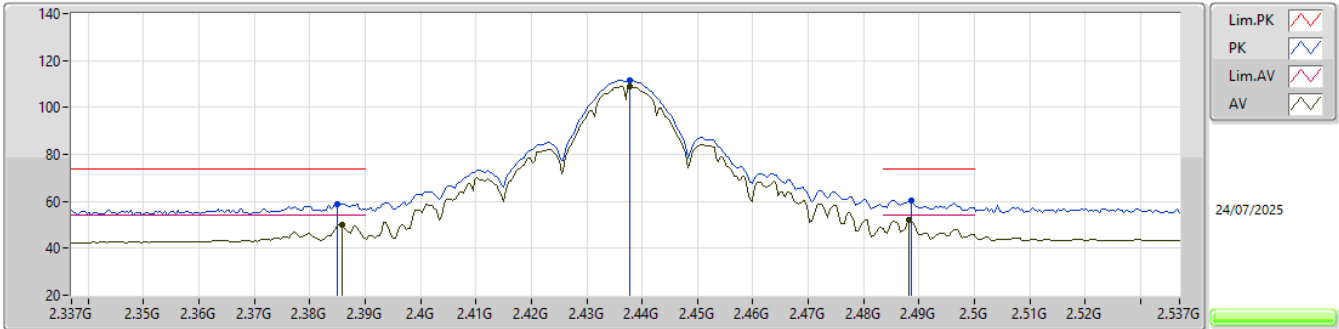
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	52.75	54.00	-1.25	3	Horizontal	296	1.14
2412MHz	Pass	AV	2.4128G	108.54	Inf	-Inf	3	Horizontal	296	1.14
2412MHz	Pass	PK	2.3898G	61.62	74.00	-12.38	3	Horizontal	296	1.14
2412MHz	Pass	PK	2.4128G	111.10	Inf	-Inf	3	Horizontal	296	1.14
2412MHz	Pass	AV	4.824G	41.43	54.00	-12.57	3	Vertical	205	2.90
2412MHz	Pass	PK	4.82395G	46.61	74.00	-27.39	3	Vertical	205	2.90
2412MHz	Pass	AV	4.824G	47.64	54.00	-6.36	3	Horizontal	175	2.90
2412MHz	Pass	PK	4.82395G	50.38	74.00	-23.62	3	Horizontal	175	2.90
2417MHz	Pass	AV	2.39G	52.90	54.00	-1.10	3	Horizontal	296	1.16
2417MHz	Pass	AV	2.4162G	109.93	Inf	-Inf	3	Horizontal	296	1.16
2417MHz	Pass	PK	2.39G	60.65	74.00	-13.35	3	Horizontal	296	1.16
2417MHz	Pass	PK	2.416G	112.49	Inf	-Inf	3	Horizontal	296	1.16
2417MHz	Pass	AV	4.834G	41.89	54.00	-12.11	3	Vertical	203	3.00
2417MHz	Pass	AV	7.25176G	41.68	54.00	-12.32	3	Vertical	227	2.97
2417MHz	Pass	PK	4.83396G	46.58	74.00	-27.42	3	Vertical	203	3.00
2417MHz	Pass	PK	7.25216G	50.93	74.00	-23.07	3	Vertical	227	2.97
2417MHz	Pass	AV	4.83396G	45.96	54.00	-8.04	3	Horizontal	301	1.00
2417MHz	Pass	AV	7.25172G	51.73	54.00	-2.27	3	Horizontal	291	1.00
2417MHz	Pass	PK	4.83396G	48.94	74.00	-25.06	3	Horizontal	301	1.00
2417MHz	Pass	PK	7.25076G	56.63	74.00	-17.37	3	Horizontal	291	1.00
2437MHz	Pass	AV	2.3858G	49.83	54.00	-4.17	3	Horizontal	204	1.14
2437MHz	Pass	AV	2.4378G	109.07	Inf	-Inf	3	Horizontal	204	1.14
2437MHz	Pass	AV	2.4882G	51.83	54.00	-2.17	3	Horizontal	204	1.14
2437MHz	Pass	PK	2.385G	59.03	74.00	-14.97	3	Horizontal	204	1.14
2437MHz	Pass	PK	2.4378G	111.65	Inf	-Inf	3	Horizontal	204	1.14
2437MHz	Pass	PK	2.4886G	60.58	74.00	-13.42	3	Horizontal	204	1.14
2437MHz	Pass	AV	4.87096G	37.48	54.00	-16.52	3	Vertical	198	2.80
2437MHz	Pass	AV	7.31024G	44.08	54.00	-9.92	3	Vertical	229	2.87
2437MHz	Pass	PK	4.8712G	44.06	74.00	-29.94	3	Vertical	198	2.80
2437MHz	Pass	PK	7.31364G	52.14	74.00	-21.86	3	Vertical	229	2.87
2437MHz	Pass	AV	4.87096G	41.28	54.00	-12.72	3	Horizontal	304	1.00
2437MHz	Pass	AV	7.3102G	52.97	54.00	-1.03	3	Horizontal	292	1.02
2437MHz	Pass	PK	4.87084G	45.99	74.00	-28.01	3	Horizontal	304	1.00
2437MHz	Pass	PK	7.31016G	57.90	74.00	-16.10	3	Horizontal	292	1.02
2457MHz	Pass	AV	2.4578G	107.33	Inf	-Inf	3	Horizontal	204	1.42
2457MHz	Pass	AV	2.4862G	52.01	54.00	-1.99	3	Horizontal	204	1.42
2457MHz	Pass	PK	2.4578G	109.88	Inf	-Inf	3	Horizontal	204	1.42
2457MHz	Pass	PK	2.4862G	60.60	74.00	-13.40	3	Horizontal	204	1.42
2457MHz	Pass	AV	4.91396G	38.72	54.00	-15.28	3	Vertical	199	2.99
2457MHz	Pass	AV	7.3702G	41.29	54.00	-12.71	3	Vertical	196	2.95
2457MHz	Pass	PK	4.91396G	44.71	74.00	-29.29	3	Vertical	199	2.99
2457MHz	Pass	PK	7.36896G	50.36	74.00	-23.64	3	Vertical	196	2.95
2457MHz	Pass	AV	4.914G	43.19	54.00	-10.81	3	Horizontal	302	1.00
2457MHz	Pass	AV	7.37024G	50.70	54.00	-3.30	3	Horizontal	296	1.00
2457MHz	Pass	PK	4.91404G	47.37	74.00	-26.63	3	Horizontal	302	1.00
2457MHz	Pass	PK	7.3716G	55.69	74.00	-18.31	3	Horizontal	296	1.00
2462MHz	Pass	AV	2.4612G	106.95	Inf	-Inf	3	Horizontal	297	1.00
2462MHz	Pass	AV	2.4835G	51.26	54.00	-2.74	3	Horizontal	297	1.00
2462MHz	Pass	PK	2.461G	109.49	Inf	-Inf	3	Horizontal	297	1.00
2462MHz	Pass	PK	2.4838G	60.06	74.00	-13.94	3	Horizontal	297	1.00
2462MHz	Pass	AV	4.92392G	40.32	54.00	-13.68	3	Vertical	200	2.93
2462MHz	Pass	AV	7.3852G	40.16	54.00	-13.84	3	Vertical	192	2.39
2462MHz	Pass	PK	4.92408G	45.68	74.00	-28.32	3	Vertical	200	2.93
2462MHz	Pass	PK	7.38488G	49.86	74.00	-24.14	3	Vertical	192	2.39
2462MHz	Pass	AV	4.92396G	43.23	54.00	-10.77	3	Horizontal	201	1.37
2462MHz	Pass	AV	7.3852G	49.36	54.00	-4.64	3	Horizontal	295	1.04
2462MHz	Pass	PK	4.92396G	47.50	74.00	-26.50	3	Horizontal	201	1.37
2462MHz	Pass	PK	7.38672G	55.14	74.00	-18.86	3	Horizontal	295	1.04
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3894G	52.66	54.00	-1.34	3	Horizontal	296	1.14

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2412MHz	Pass	AV	2.4126G	101.12	Inf	-Inf	3	Horizontal	296	1.14
2412MHz	Pass	PK	2.39G	69.92	74.00	-4.08	3	Horizontal	296	1.14
2412MHz	Pass	PK	2.4138G	112.93	Inf	-Inf	3	Horizontal	296	1.14
2412MHz	Pass	AV	4.82408G	29.55	54.00	-24.45	3	Vertical	202	2.97
2412MHz	Pass	PK	4.82724G	44.33	74.00	-29.67	3	Vertical	202	2.97
2412MHz	Pass	AV	4.82396G	33.06	54.00	-20.94	3	Horizontal	302	1.03
2412MHz	Pass	PK	4.82568G	47.70	74.00	-26.30	3	Horizontal	302	1.03
2417MHz	Pass	AV	2.39G	52.50	54.00	-1.50	3	Horizontal	296	1.15
2417MHz	Pass	AV	2.4164G	101.49	Inf	-Inf	3	Horizontal	296	1.15
2417MHz	Pass	PK	2.3882G	69.18	74.00	-4.82	3	Horizontal	296	1.15
2417MHz	Pass	PK	2.4164G	113.80	Inf	-Inf	3	Horizontal	296	1.15
2417MHz	Pass	AV	4.83404G	29.71	54.00	-24.29	3	Vertical	205	2.73
2417MHz	Pass	AV	7.25148G	33.73	54.00	-20.27	3	Vertical	83	1.14
2417MHz	Pass	PK	4.83636G	44.83	74.00	-29.17	3	Vertical	205	2.73
2417MHz	Pass	PK	7.25616G	48.87	74.00	-25.13	3	Vertical	83	1.14
2417MHz	Pass	AV	4.83412G	32.66	54.00	-21.34	3	Horizontal	302	1.08
2417MHz	Pass	AV	7.25152G	40.01	54.00	-13.99	3	Horizontal	291	1.01
2417MHz	Pass	PK	4.83624G	47.77	74.00	-26.23	3	Horizontal	302	1.08
2417MHz	Pass	PK	7.25168G	55.45	74.00	-18.55	3	Horizontal	291	1.01
2437MHz	Pass	AV	2.3898G	51.44	54.00	-2.56	3	Horizontal	297	1.07
2437MHz	Pass	AV	2.4362G	103.21	Inf	-Inf	3	Horizontal	297	1.07
2437MHz	Pass	AV	2.4835G	50.89	54.00	-3.11	3	Horizontal	297	1.07
2437MHz	Pass	PK	2.3898G	68.25	74.00	-5.75	3	Horizontal	297	1.07
2437MHz	Pass	PK	2.435G	115.07	Inf	-Inf	3	Horizontal	297	1.07
2437MHz	Pass	PK	2.4842G	66.06	74.00	-7.94	3	Horizontal	297	1.07
2437MHz	Pass	AV	4.87384G	29.34	54.00	-24.66	3	Vertical	200	2.99
2437MHz	Pass	AV	7.31172G	36.38	54.00	-17.62	3	Vertical	229	2.76
2437MHz	Pass	PK	4.88168G	44.04	74.00	-29.96	3	Vertical	200	2.99
2437MHz	Pass	PK	7.3164G	50.94	74.00	-23.06	3	Vertical	229	2.76
2437MHz	Pass	AV	4.874G	32.18	54.00	-21.82	3	Horizontal	301	1.08
2437MHz	Pass	AV	7.31148G	42.85	54.00	-11.15	3	Horizontal	277	1.00
2437MHz	Pass	PK	4.87328G	46.61	74.00	-27.39	3	Horizontal	301	1.08
2437MHz	Pass	PK	7.30792G	57.29	74.00	-16.71	3	Horizontal	277	1.00
2457MHz	Pass	AV	2.4576G	99.31	Inf	-Inf	3	Horizontal	297	1.21
2457MHz	Pass	AV	2.4835G	52.36	54.00	-1.64	3	Horizontal	297	1.21
2457MHz	Pass	PK	2.4564G	111.46	Inf	-Inf	3	Horizontal	297	1.21
2457MHz	Pass	PK	2.484G	68.33	74.00	-5.67	3	Horizontal	297	1.21
2457MHz	Pass	AV	4.9144G	29.82	54.00	-24.18	3	Vertical	199	2.97
2457MHz	Pass	AV	7.37096G	34.23	54.00	-19.77	3	Vertical	228	2.85
2457MHz	Pass	PK	4.91328G	44.04	74.00	-29.96	3	Vertical	199	2.97
2457MHz	Pass	PK	7.37096G	48.81	74.00	-25.19	3	Vertical	228	2.85
2457MHz	Pass	AV	4.914G	32.93	54.00	-21.07	3	Horizontal	302	1.00
2457MHz	Pass	AV	7.3716G	39.33	54.00	-14.67	3	Horizontal	295	1.00
2457MHz	Pass	PK	4.918G	47.16	74.00	-26.84	3	Horizontal	302	1.00
2457MHz	Pass	PK	7.37176G	54.30	74.00	-19.70	3	Horizontal	295	1.00
2462MHz	Pass	AV	2.4614G	97.96	Inf	-Inf	3	Horizontal	204	1.44
2462MHz	Pass	AV	2.4835G	51.54	54.00	-2.46	3	Horizontal	204	1.44
2462MHz	Pass	PK	2.4612G	110.11	Inf	-Inf	3	Horizontal	204	1.44
2462MHz	Pass	PK	2.4838G	68.69	74.00	-5.31	3	Horizontal	204	1.44
2462MHz	Pass	AV	4.924G	29.39	54.00	-24.61	3	Vertical	203	2.94
2462MHz	Pass	AV	7.3864G	32.85	54.00	-21.15	3	Vertical	80	1.50
2462MHz	Pass	PK	4.92652G	44.43	74.00	-29.57	3	Vertical	203	2.94
2462MHz	Pass	PK	7.3798G	47.56	74.00	-26.44	3	Vertical	80	1.50
2462MHz	Pass	AV	4.92512G	30.87	54.00	-23.13	3	Horizontal	199	1.26
2462MHz	Pass	AV	7.3864G	37.26	54.00	-16.74	3	Horizontal	294	1.05
2462MHz	Pass	PK	4.9278G	45.94	74.00	-28.06	3	Horizontal	199	1.26
2462MHz	Pass	PK	7.38596G	53.19	74.00	-20.81	3	Horizontal	294	1.05
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.389G	51.42	54.00	-2.58	3	Horizontal	297	1.15
2412MHz	Pass	AV	2.4128G	100.49	Inf	-Inf	3	Horizontal	297	1.15
2412MHz	Pass	PK	2.3874G	72.54	74.00	-1.46	3	Horizontal	297	1.15
2412MHz	Pass	PK	2.4128G	114.53	Inf	-Inf	3	Horizontal	297	1.15

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2412MHz	Pass	AV	4.82408G	29.67	54.00	-24.33	3	Vertical	203	2.78
2412MHz	Pass	PK	4.82256G	43.89	74.00	-30.11	3	Vertical	203	2.78
2412MHz	Pass	AV	4.82508G	32.44	54.00	-21.56	3	Horizontal	301	1.04
2412MHz	Pass	PK	4.8238G	46.89	74.00	-27.11	3	Horizontal	301	1.04
2417MHz	Pass	AV	2.39G	51.97	54.00	-2.03	3	Horizontal	297	1.17
2417MHz	Pass	AV	2.4178G	100.90	Inf	-Inf	3	Horizontal	297	1.17
2417MHz	Pass	PK	2.3892G	70.45	74.00	-3.55	3	Horizontal	297	1.17
2417MHz	Pass	PK	2.4178G	114.73	Inf	-Inf	3	Horizontal	297	1.17
2417MHz	Pass	AV	4.83512G	29.67	54.00	-24.33	3	Vertical	206	2.99
2417MHz	Pass	AV	7.2582G	33.32	54.00	-20.68	3	Vertical	83	1.42
2417MHz	Pass	PK	4.83812G	44.44	74.00	-29.56	3	Vertical	206	2.99
2417MHz	Pass	PK	7.25656G	47.44	74.00	-26.56	3	Vertical	83	1.42
2417MHz	Pass	AV	4.835G	32.76	54.00	-21.24	3	Horizontal	301	1.07
2417MHz	Pass	AV	7.2518G	38.87	54.00	-15.13	3	Horizontal	291	1.00
2417MHz	Pass	PK	4.83496G	47.57	74.00	-26.43	3	Horizontal	301	1.07
2417MHz	Pass	PK	7.25016G	55.15	74.00	-18.85	3	Horizontal	291	1.00
2437MHz	Pass	AV	2.3898G	52.32	54.00	-1.68	3	Horizontal	297	1.08
2437MHz	Pass	AV	2.4378G	102.46	Inf	-Inf	3	Horizontal	297	1.08
2437MHz	Pass	AV	2.4835G	52.24	54.00	-1.76	3	Horizontal	297	1.08
2437MHz	Pass	PK	2.3894G	69.86	74.00	-4.14	3	Horizontal	297	1.08
2437MHz	Pass	PK	2.435G	115.50	Inf	-Inf	3	Horizontal	297	1.08
2437MHz	Pass	PK	2.4858G	69.37	74.00	-4.63	3	Horizontal	297	1.08
2437MHz	Pass	AV	4.87188G	29.30	54.00	-24.70	3	Vertical	204	2.96
2437MHz	Pass	AV	7.31028G	36.00	54.00	-18.00	3	Vertical	227	2.77
2437MHz	Pass	PK	4.87484G	44.54	74.00	-29.46	3	Vertical	204	2.96
2437MHz	Pass	PK	7.31632G	50.22	74.00	-23.78	3	Vertical	227	2.77
2437MHz	Pass	AV	4.87236G	31.82	54.00	-22.18	3	Horizontal	300	1.03
2437MHz	Pass	AV	7.31076G	41.98	54.00	-12.02	3	Horizontal	291	1.01
2437MHz	Pass	PK	4.87992G	46.62	74.00	-27.38	3	Horizontal	300	1.03
2437MHz	Pass	PK	7.30548G	57.06	74.00	-16.94	3	Horizontal	291	1.01
2457MHz	Pass	AV	2.4578G	98.52	Inf	-Inf	3	Horizontal	297	1.19
2457MHz	Pass	AV	2.4835G	52.32	54.00	-1.68	3	Horizontal	297	1.19
2457MHz	Pass	PK	2.4562G	111.96	Inf	-Inf	3	Horizontal	297	1.19
2457MHz	Pass	PK	2.4842G	70.62	74.00	-3.38	3	Horizontal	297	1.19
2457MHz	Pass	AV	4.91276G	29.26	54.00	-24.74	3	Vertical	201	2.74
2457MHz	Pass	AV	7.3802G	32.92	54.00	-21.08	3	Vertical	335	2.72
2457MHz	Pass	PK	4.913G	43.51	74.00	-30.49	3	Vertical	201	2.74
2457MHz	Pass	PK	7.36136G	46.88	74.00	-27.12	3	Vertical	335	2.72
2457MHz	Pass	AV	4.91336G	32.70	54.00	-21.30	3	Horizontal	301	1.03
2457MHz	Pass	AV	7.37352G	37.27	54.00	-16.73	3	Horizontal	295	1.00
2457MHz	Pass	PK	4.91412G	47.12	74.00	-26.88	3	Horizontal	301	1.03
2457MHz	Pass	PK	7.37504G	52.87	74.00	-21.13	3	Horizontal	295	1.00
2462MHz	Pass	AV	2.4628G	94.75	Inf	-Inf	3	Horizontal	21	1.33
2462MHz	Pass	AV	2.4835G	51.88	54.00	-2.12	3	Horizontal	21	1.33
2462MHz	Pass	PK	2.4628G	108.45	Inf	-Inf	3	Horizontal	21	1.33
2462MHz	Pass	PK	2.4848G	70.20	74.00	-3.80	3	Horizontal	21	1.33
2462MHz	Pass	AV	4.92516G	29.50	54.00	-24.50	3	Vertical	203	2.90
2462MHz	Pass	AV	7.38596G	33.34	54.00	-20.66	3	Vertical	188	2.83
2462MHz	Pass	PK	4.9218G	43.72	74.00	-30.28	3	Vertical	203	2.90
2462MHz	Pass	PK	7.38616G	47.45	74.00	-26.55	3	Vertical	188	2.83
2462MHz	Pass	AV	4.9222G	32.63	54.00	-21.37	3	Horizontal	174	2.96
2462MHz	Pass	AV	7.38328G	36.81	54.00	-17.19	3	Horizontal	294	1.00
2462MHz	Pass	PK	4.93116G	46.92	74.00	-27.08	3	Horizontal	174	2.96
2462MHz	Pass	PK	7.38192G	51.84	74.00	-22.16	3	Horizontal	294	1.00

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

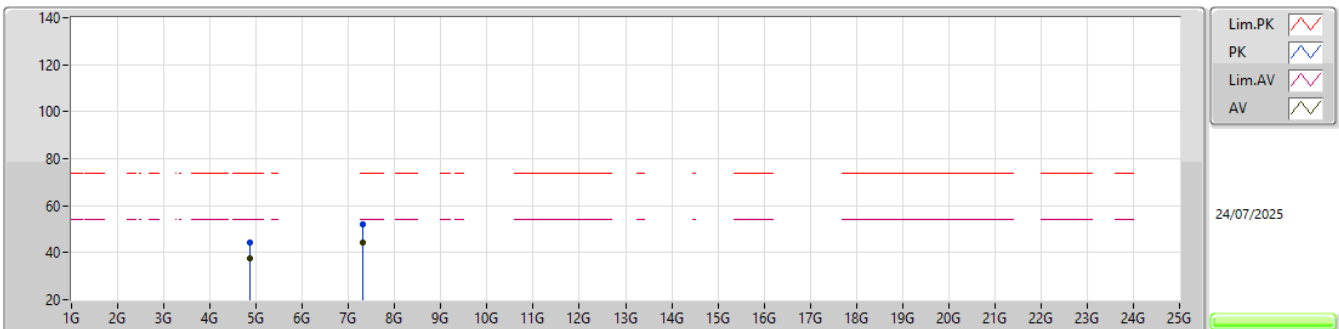
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3858G	49.83	54.00	-4.17	30.26	3	Horizontal	204	1.14	19.57	27.46	2.80	-
AV	2.4378G	109.07	Inf	-Inf	30.51	3	Horizontal	204	1.14	78.56	27.70	2.81	-
AV	2.4882G	51.83	54.00	-2.17	30.71	3	Horizontal	204	1.14	21.12	27.90	2.81	-
PK	2.385G	59.03	74.00	-14.97	30.25	3	Horizontal	204	1.14	28.78	27.45	2.80	-
PK	2.4378G	111.65	Inf	-Inf	30.51	3	Horizontal	204	1.14	81.14	27.70	2.81	-
PK	2.4886G	60.58	74.00	-13.42	30.71	3	Horizontal	204	1.14	29.87	27.90	2.81	-

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

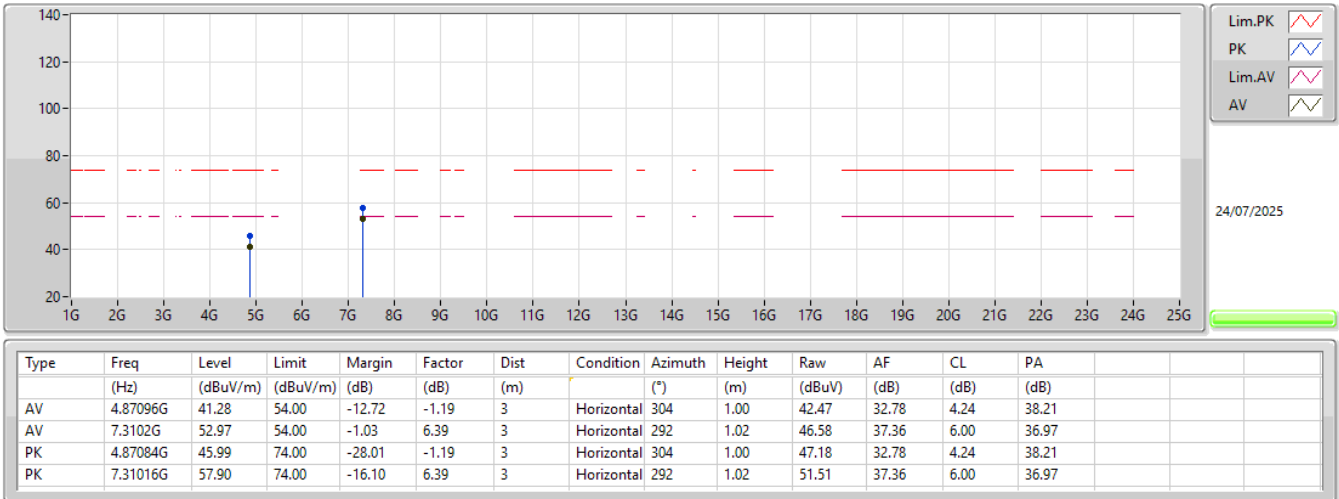
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87096G	37.48	54.00	-16.52	-1.19	3	Vertical	198	2.80	38.67	32.78	4.24	38.21
AV	7.31024G	44.08	54.00	-9.92	6.39	3	Vertical	229	2.87	37.69	37.36	6.00	36.97
PK	4.8712G	44.06	74.00	-29.94	-1.19	3	Vertical	198	2.80	45.25	32.78	4.24	38.21
PK	7.31364G	52.14	74.00	-21.86	6.38	3	Vertical	229	2.87	45.76	37.35	6.00	36.97

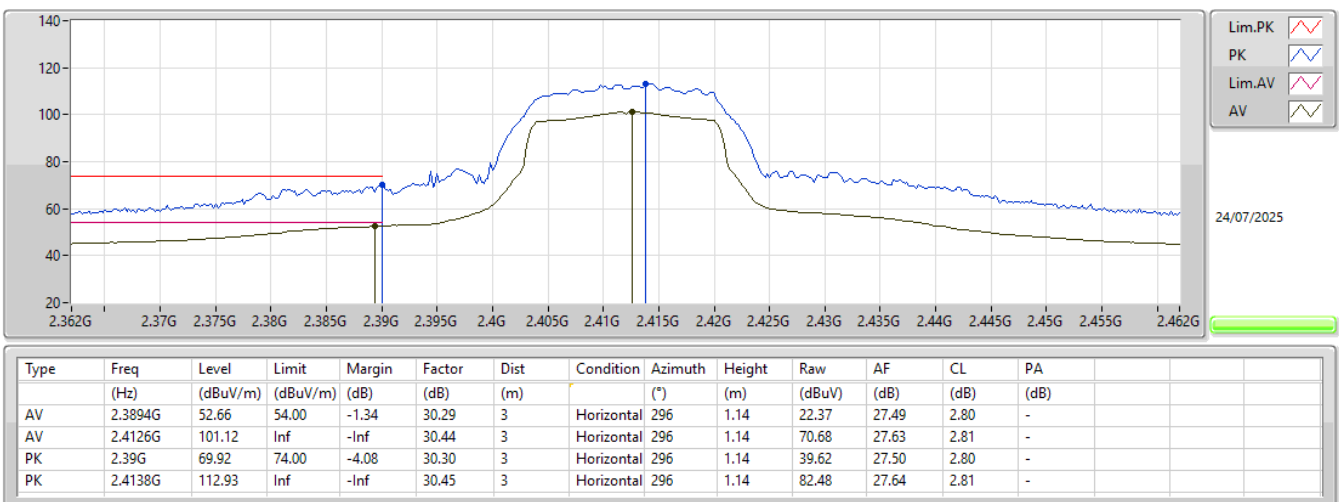
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX



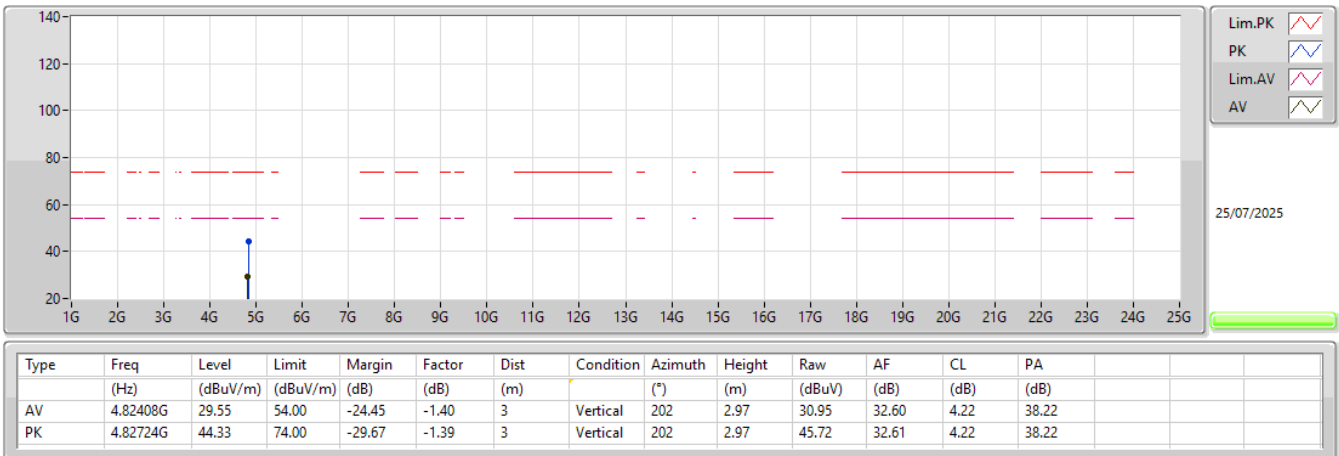
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2412MHz_TX



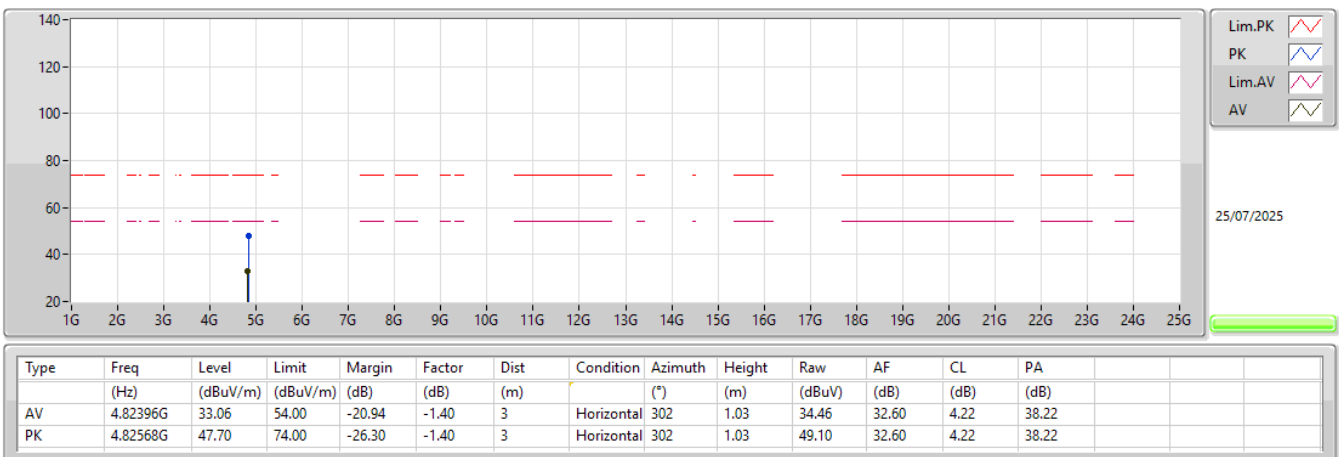
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2412MHz_TX



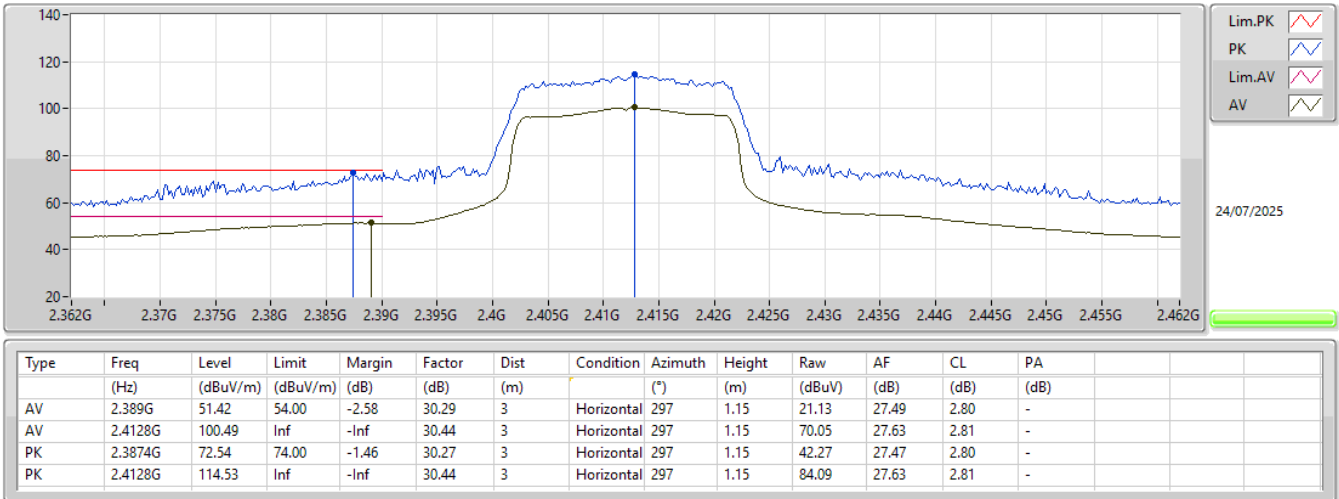
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2412MHz_TX



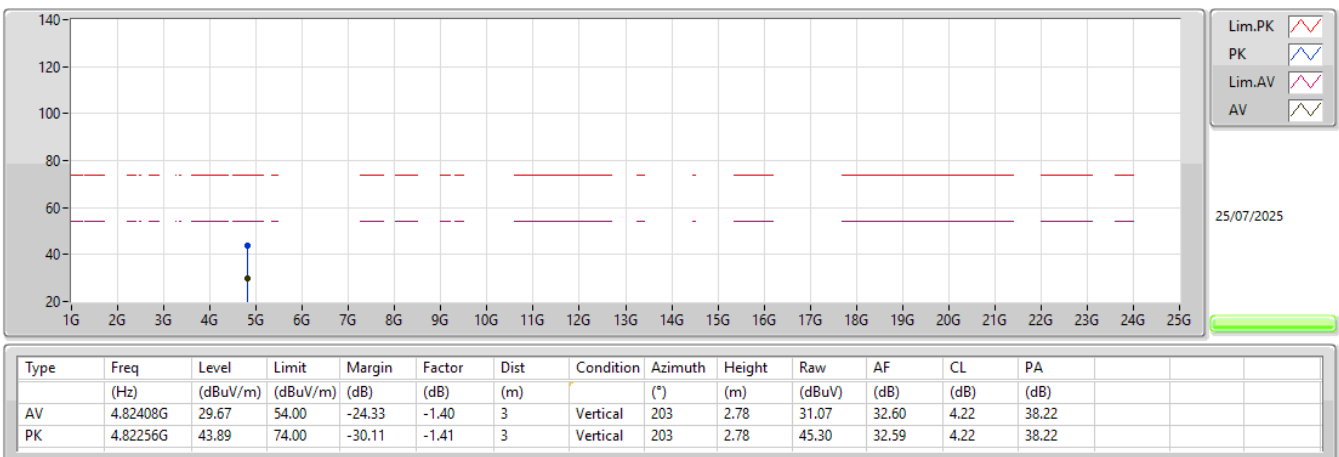
2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

2412MHz_TX



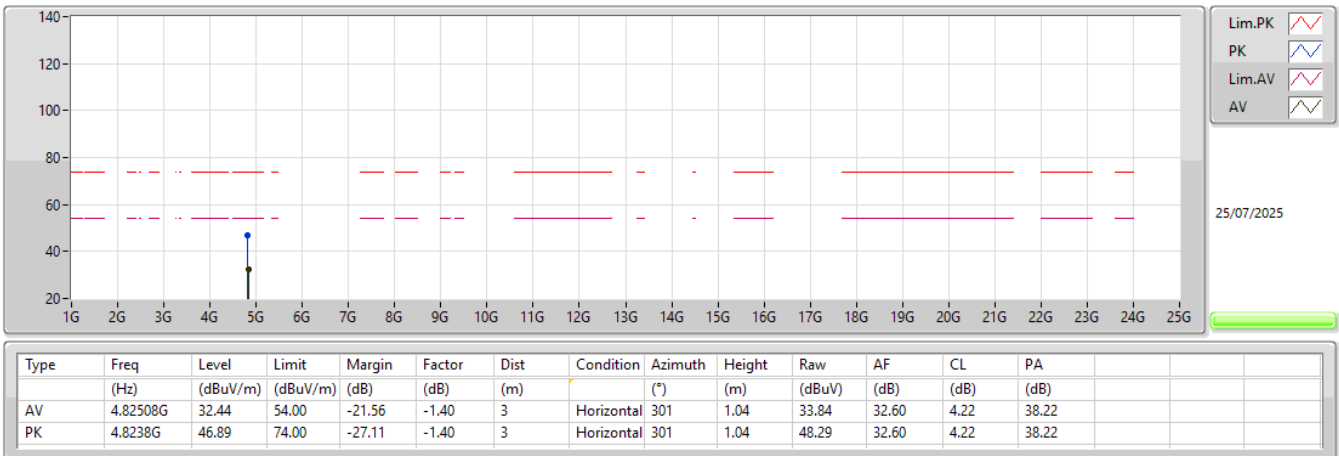
2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

2412MHz_TX



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX





Summary

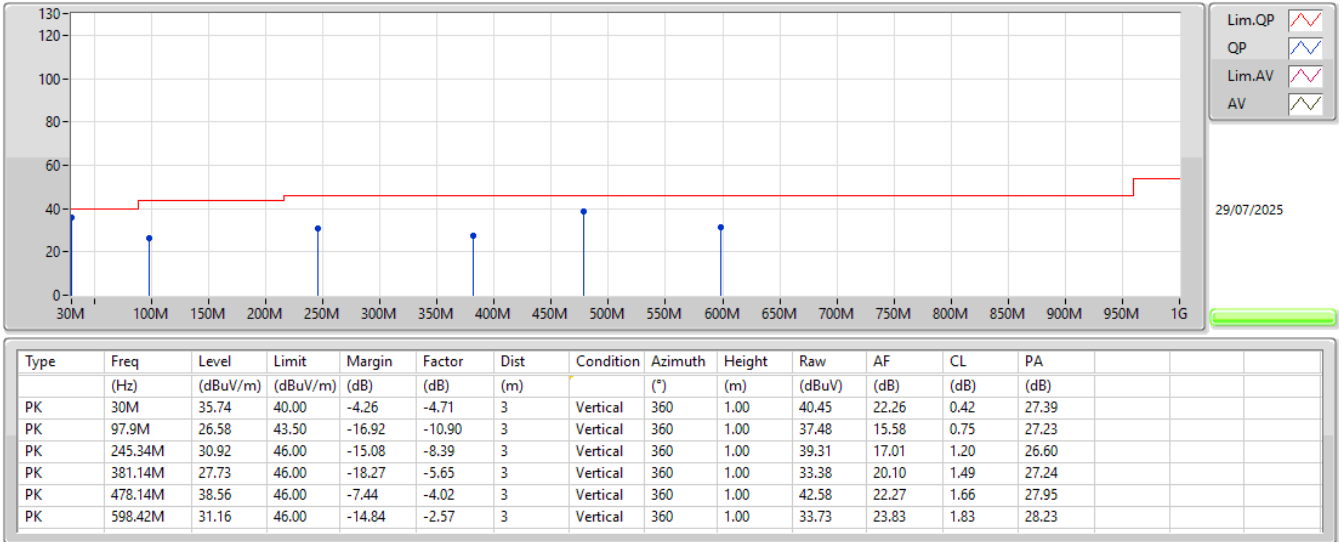
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	PK	30M	35.74	40.00	-4.26	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2437MHz_Test fixture	Pass	PK	30M	35.74	40.00	-4.26	3	Vertical	360	1.00
2437MHz_Test fixture	Pass	PK	97.9M	26.58	43.50	-16.92	3	Vertical	360	1.00
2437MHz_Test fixture	Pass	PK	245.34M	30.92	46.00	-15.08	3	Vertical	360	1.00
2437MHz_Test fixture	Pass	PK	381.14M	27.73	46.00	-18.27	3	Vertical	360	1.00
2437MHz_Test fixture	Pass	PK	478.14M	38.56	46.00	-7.44	3	Vertical	360	1.00
2437MHz_Test fixture	Pass	PK	598.42M	31.16	46.00	-14.84	3	Vertical	360	1.00
2437MHz_Test fixture	Pass	PK	30M	27.97	40.00	-12.03	3	Horizontal	0	1.00
2437MHz_Test fixture	Pass	PK	97.9M	33.80	43.50	-9.70	3	Horizontal	0	1.00
2437MHz_Test fixture	Pass	PK	130.88M	27.23	43.50	-16.27	3	Horizontal	0	1.00
2437MHz_Test fixture	Pass	PK	245.34M	33.50	46.00	-12.50	3	Horizontal	0	1.00
2437MHz_Test fixture	Pass	PK	334.58M	29.67	46.00	-16.33	3	Horizontal	0	1.00
2437MHz_Test fixture	Pass	PK	478.14M	41.33	46.00	-4.67	3	Horizontal	0	1.00

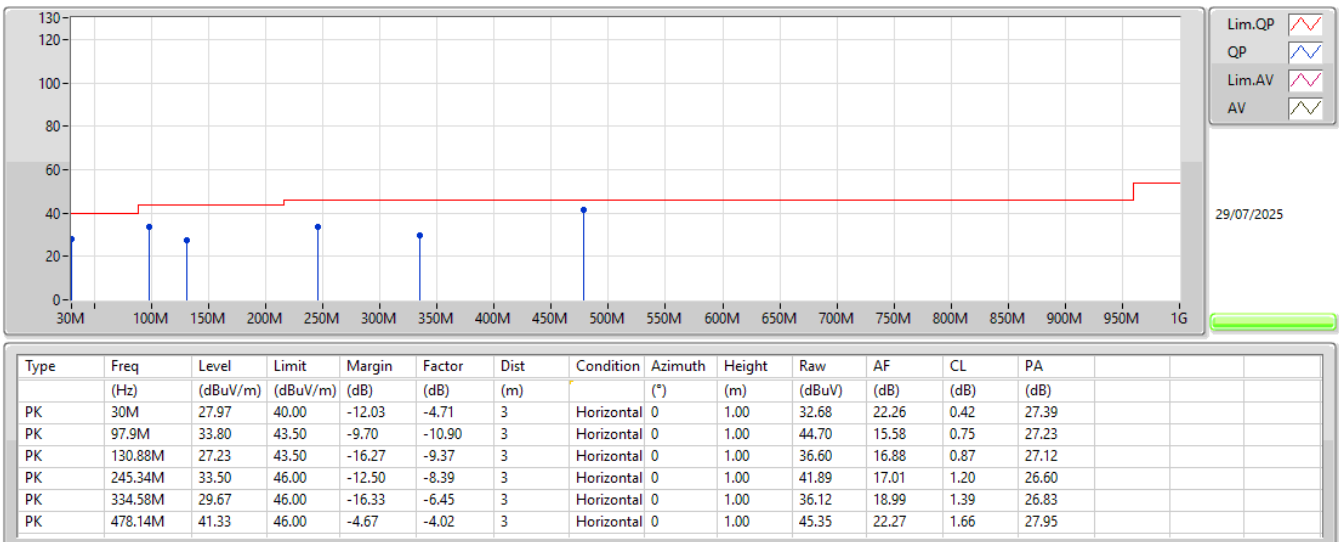
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_Test fixture



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_Test 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	4.914G	52.89	54.00	-1.11	3	Horizontal	77	1.01
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4835G	52.63	54.00	-1.37	3	Horizontal	216	1.14
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	AV	2.4835G	52.90	54.00	-1.10	3	Horizontal	217	1.29

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	2.3872G	47.56	54.00	-6.44	3	Horizontal	218	1.71
2412MHz	Pass	AV	2.4112G	106.28	Inf	-Inf	3	Horizontal	218	1.71
2412MHz	Pass	PK	2.386G	58.45	74.00	-15.55	3	Horizontal	218	1.71
2412MHz	Pass	PK	2.411G	108.84	Inf	-Inf	3	Horizontal	218	1.71
2412MHz	Pass	AV	4.82396G	48.41	54.00	-5.59	3	Vertical	201	1.10
2412MHz	Pass	PK	4.82408G	51.26	74.00	-22.74	3	Vertical	201	1.10
2412MHz	Pass	AV	4.82396G	52.86	54.00	-1.14	3	Horizontal	66	1.00
2412MHz	Pass	PK	4.82396G	54.78	74.00	-19.22	3	Horizontal	66	1.00
2437MHz	Pass	AV	2.3586G	42.68	54.00	-11.32	3	Horizontal	218	1.28
2437MHz	Pass	AV	2.4378G	105.31	Inf	-Inf	3	Horizontal	218	1.28
2437MHz	Pass	AV	2.4842G	43.00	54.00	-11.00	3	Horizontal	218	1.28
2437MHz	Pass	PK	2.385G	56.50	74.00	-17.50	3	Horizontal	218	1.28
2437MHz	Pass	PK	2.4378G	107.89	Inf	-Inf	3	Horizontal	218	1.28
2437MHz	Pass	PK	2.487G	56.56	74.00	-17.44	3	Horizontal	218	1.28
2437MHz	Pass	AV	4.874G	48.72	54.00	-5.28	3	Vertical	200	1.04
2437MHz	Pass	AV	7.31172G	37.67	54.00	-16.33	3	Vertical	223	2.95
2437MHz	Pass	PK	4.87404G	51.34	74.00	-22.66	3	Vertical	200	1.04
2437MHz	Pass	PK	7.30888G	49.02	74.00	-24.98	3	Vertical	223	2.95
2437MHz	Pass	AV	4.87396G	52.84	54.00	-1.16	3	Horizontal	69	1.06
2437MHz	Pass	AV	7.31016G	39.71	54.00	-14.29	3	Horizontal	58	1.00
2437MHz	Pass	PK	4.87404G	54.80	74.00	-19.20	3	Horizontal	69	1.06
2437MHz	Pass	PK	7.3102G	49.60	74.00	-24.40	3	Horizontal	58	1.00
2457MHz	Pass	AV	2.4562G	104.81	Inf	-Inf	3	Horizontal	218	1.14
2457MHz	Pass	AV	2.4836G	43.42	54.00	-10.58	3	Horizontal	218	1.14
2457MHz	Pass	PK	2.4578G	107.46	Inf	-Inf	3	Horizontal	218	1.14
2457MHz	Pass	PK	2.486G	57.38	74.00	-16.62	3	Horizontal	218	1.14
2457MHz	Pass	AV	4.914G	48.35	54.00	-5.65	3	Vertical	199	1.02
2457MHz	Pass	AV	7.3718G	35.33	54.00	-18.67	3	Vertical	235	2.57
2457MHz	Pass	PK	4.91396G	51.14	74.00	-22.86	3	Vertical	199	1.02
2457MHz	Pass	PK	7.3708G	48.52	74.00	-25.48	3	Vertical	235	2.57
2457MHz	Pass	AV	4.914G	52.89	54.00	-1.11	3	Horizontal	77	1.01
2457MHz	Pass	AV	7.37176G	37.73	54.00	-16.27	3	Horizontal	58	1.00
2457MHz	Pass	PK	4.914G	54.83	74.00	-19.17	3	Horizontal	77	1.01
2457MHz	Pass	PK	7.3722G	48.70	74.00	-25.30	3	Horizontal	58	1.00
2462MHz	Pass	AV	2.4612G	104.44	Inf	-Inf	3	Horizontal	217	1.60
2462MHz	Pass	AV	2.4835G	45.79	54.00	-8.21	3	Horizontal	217	1.60
2462MHz	Pass	PK	2.461G	107.01	Inf	-Inf	3	Horizontal	217	1.60
2462MHz	Pass	PK	2.4835G	57.06	74.00	-16.94	3	Horizontal	217	1.60
2462MHz	Pass	AV	4.924G	48.28	54.00	-5.72	3	Vertical	200	1.00
2462MHz	Pass	AV	7.38512G	35.25	54.00	-18.75	3	Vertical	227	2.63
2462MHz	Pass	PK	4.924G	51.07	74.00	-22.93	3	Vertical	200	1.00
2462MHz	Pass	PK	7.38324G	48.51	74.00	-25.49	3	Vertical	227	2.63
2462MHz	Pass	AV	4.924G	52.88	54.00	-1.12	3	Horizontal	64	1.00
2462MHz	Pass	AV	7.38676G	37.83	54.00	-16.17	3	Horizontal	61	1.06
2462MHz	Pass	PK	4.92392G	54.80	74.00	-19.20	3	Horizontal	64	1.00
2462MHz	Pass	PK	7.3866G	48.80	74.00	-25.20	3	Horizontal	61	1.06
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	51.59	54.00	-2.41	3	Horizontal	218	1.72
2412MHz	Pass	AV	2.4114G	101.59	Inf	-Inf	3	Horizontal	218	1.72
2412MHz	Pass	PK	2.39G	68.09	74.00	-5.91	3	Horizontal	218	1.72
2412MHz	Pass	PK	2.41G	113.41	Inf	-Inf	3	Horizontal	218	1.72
2412MHz	Pass	AV	4.82512G	33.50	54.00	-20.50	3	Vertical	200	1.00
2412MHz	Pass	PK	4.82648G	49.14	74.00	-24.86	3	Vertical	200	1.00
2412MHz	Pass	AV	4.82408G	38.18	54.00	-15.82	3	Horizontal	65	1.01
2412MHz	Pass	PK	4.82636G	52.87	74.00	-21.13	3	Horizontal	65	1.01
2417MHz	Pass	AV	2.39G	51.45	54.00	-2.55	3	Horizontal	217	1.16
2417MHz	Pass	AV	2.4164G	102.07	Inf	-Inf	3	Horizontal	217	1.16
2417MHz	Pass	PK	2.39G	68.72	74.00	-5.28	3	Horizontal	217	1.16
2417MHz	Pass	PK	2.415G	113.82	Inf	-Inf	3	Horizontal	217	1.16
2437MHz	Pass	AV	2.3898G	48.83	54.00	-5.17	3	Horizontal	218	1.28

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2437MHz	Pass	AV	2.4378G	104.87	Inf	-Inf	3	Horizontal	218	1.28
2437MHz	Pass	AV	2.4835G	51.06	54.00	-2.94	3	Horizontal	218	1.28
2437MHz	Pass	PK	2.3898G	64.87	74.00	-9.13	3	Horizontal	218	1.28
2437MHz	Pass	PK	2.439G	116.60	Inf	-Inf	3	Horizontal	218	1.28
2437MHz	Pass	PK	2.4862G	66.65	74.00	-7.35	3	Horizontal	218	1.28
2437MHz	Pass	AV	4.87424G	34.84	54.00	-19.16	3	Vertical	200	1.05
2437MHz	Pass	AV	7.31144G	41.63	54.00	-12.37	3	Vertical	228	2.83
2437MHz	Pass	PK	4.8762G	49.23	74.00	-24.77	3	Vertical	200	1.05
2437MHz	Pass	PK	7.3112G	56.53	74.00	-17.47	3	Vertical	228	2.83
2437MHz	Pass	AV	4.87396G	39.45	54.00	-14.55	3	Horizontal	67	1.12
2437MHz	Pass	AV	7.31156G	43.66	54.00	-10.34	3	Horizontal	59	1.01
2437MHz	Pass	PK	4.87576G	53.62	74.00	-20.38	3	Horizontal	67	1.12
2437MHz	Pass	PK	7.3116G	58.44	74.00	-15.56	3	Horizontal	59	1.01
2457MHz	Pass	AV	2.4564G	101.63	Inf	-Inf	3	Horizontal	216	1.14
2457MHz	Pass	AV	2.4835G	52.63	54.00	-1.37	3	Horizontal	216	1.14
2457MHz	Pass	PK	2.4564G	113.40	Inf	-Inf	3	Horizontal	216	1.14
2457MHz	Pass	PK	2.4852G	68.45	74.00	-5.55	3	Horizontal	216	1.14
2462MHz	Pass	AV	2.4614G	100.58	Inf	-Inf	3	Horizontal	217	1.38
2462MHz	Pass	AV	2.4835G	51.91	54.00	-2.09	3	Horizontal	217	1.38
2462MHz	Pass	PK	2.46G	112.46	Inf	-Inf	3	Horizontal	217	1.38
2462MHz	Pass	PK	2.4836G	66.92	74.00	-7.08	3	Horizontal	217	1.38
2462MHz	Pass	AV	4.92396G	34.76	54.00	-19.24	3	Vertical	198	1.00
2462MHz	Pass	AV	7.3864G	35.77	54.00	-18.23	3	Vertical	228	2.77
2462MHz	Pass	PK	4.92628G	50.01	74.00	-23.99	3	Vertical	198	1.00
2462MHz	Pass	PK	7.3824G	50.73	74.00	-23.27	3	Vertical	228	2.77
2462MHz	Pass	AV	4.92408G	39.69	54.00	-14.31	3	Horizontal	72	1.03
2462MHz	Pass	AV	7.38644G	37.22	54.00	-16.78	3	Horizontal	60	1.01
2462MHz	Pass	PK	4.92628G	54.37	74.00	-19.63	3	Horizontal	72	1.03
2462MHz	Pass	PK	7.38692G	53.21	74.00	-20.79	3	Horizontal	60	1.01
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3898G	51.36	54.00	-2.64	3	Horizontal	218	1.71
2412MHz	Pass	AV	2.4126G	101.07	Inf	-Inf	3	Horizontal	218	1.71
2412MHz	Pass	PK	2.3898G	72.55	74.00	-1.45	3	Horizontal	218	1.71
2412MHz	Pass	PK	2.413G	114.56	Inf	-Inf	3	Horizontal	218	1.71
2412MHz	Pass	AV	4.8224G	32.59	54.00	-21.41	3	Vertical	202	1.10
2412MHz	Pass	PK	4.82316G	47.62	74.00	-26.38	3	Vertical	202	1.10
2412MHz	Pass	AV	4.82372G	37.47	54.00	-16.53	3	Horizontal	68	1.08
2412MHz	Pass	PK	4.8234G	51.78	74.00	-22.22	3	Horizontal	68	1.08
2437MHz	Pass	AV	2.3898G	51.08	54.00	-2.92	3	Horizontal	217	1.29
2437MHz	Pass	AV	2.4378G	104.68	Inf	-Inf	3	Horizontal	217	1.29
2437MHz	Pass	AV	2.4835G	52.90	54.00	-1.10	3	Horizontal	217	1.29
2437MHz	Pass	PK	2.3878G	68.38	74.00	-5.62	3	Horizontal	217	1.29
2437MHz	Pass	PK	2.4378G	118.85	Inf	-Inf	3	Horizontal	217	1.29
2437MHz	Pass	PK	2.4838G	68.73	74.00	-5.27	3	Horizontal	217	1.29
2437MHz	Pass	AV	4.874G	33.97	54.00	-20.03	3	Vertical	200	1.05
2437MHz	Pass	AV	7.30964G	35.91	54.00	-18.09	3	Vertical	229	2.83
2437MHz	Pass	PK	4.87792G	49.28	74.00	-24.72	3	Vertical	200	1.05
2437MHz	Pass	PK	7.30504G	51.47	74.00	-22.53	3	Vertical	229	2.83
2437MHz	Pass	AV	4.8724G	38.09	54.00	-15.91	3	Horizontal	73	1.07
2437MHz	Pass	AV	7.31456G	36.97	54.00	-17.03	3	Horizontal	60	1.03
2437MHz	Pass	PK	4.87356G	52.72	74.00	-21.28	3	Horizontal	73	1.07
2437MHz	Pass	PK	7.31016G	53.00	74.00	-21.00	3	Horizontal	60	1.03
2462MHz	Pass	AV	2.4628G	100.00	Inf	-Inf	3	Horizontal	217	1.17
2462MHz	Pass	AV	2.4835G	51.35	54.00	-2.65	3	Horizontal	217	1.17
2462MHz	Pass	PK	2.463G	113.53	Inf	-Inf	3	Horizontal	217	1.17
2462MHz	Pass	PK	2.4838G	71.29	74.00	-2.71	3	Horizontal	217	1.17
2462MHz	Pass	AV	4.92624G	34.60	54.00	-19.40	3	Vertical	199	1.00
2462MHz	Pass	AV	7.38376G	34.84	54.00	-19.16	3	Vertical	226	2.77
2462MHz	Pass	PK	4.9272G	49.80	74.00	-24.20	3	Vertical	199	1.00
2462MHz	Pass	PK	7.38264G	49.72	74.00	-24.28	3	Vertical	226	2.77
2462MHz	Pass	AV	4.92388G	39.32	54.00	-14.68	3	Horizontal	73	1.15
2462MHz	Pass	AV	7.3862G	36.90	54.00	-17.10	3	Horizontal	59	1.00



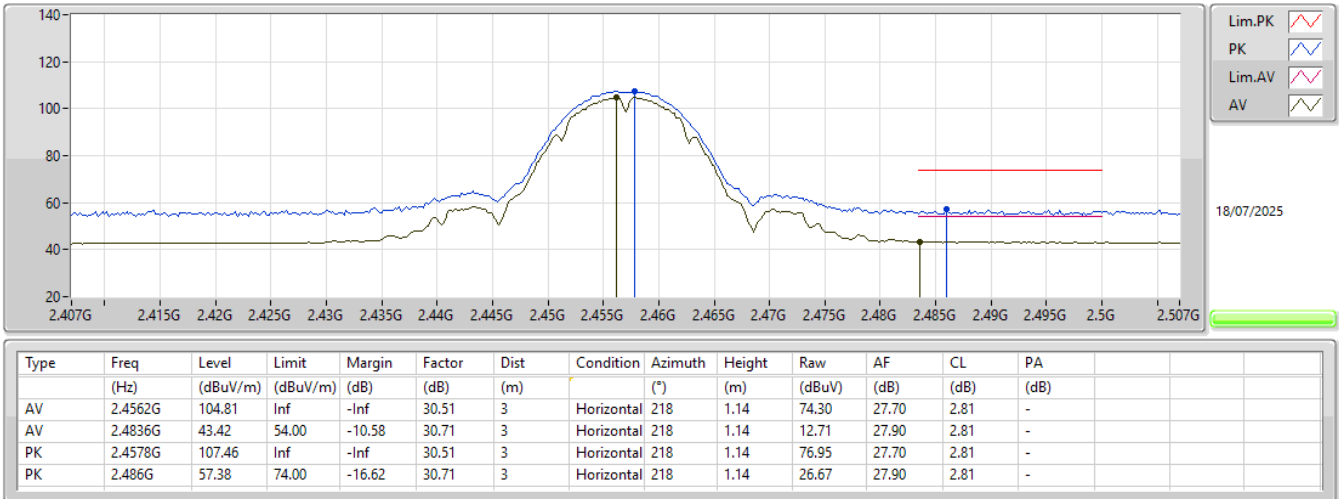
RSE TX above 1GHz_PCB Antenna

Appendix F.4

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2462MHz	Pass	PK	4.92344G	54.32	74.00	-19.68	3	Horizontal	73	1.15
2462MHz	Pass	PK	7.386G	52.27	74.00	-21.73	3	Horizontal	59	1.00

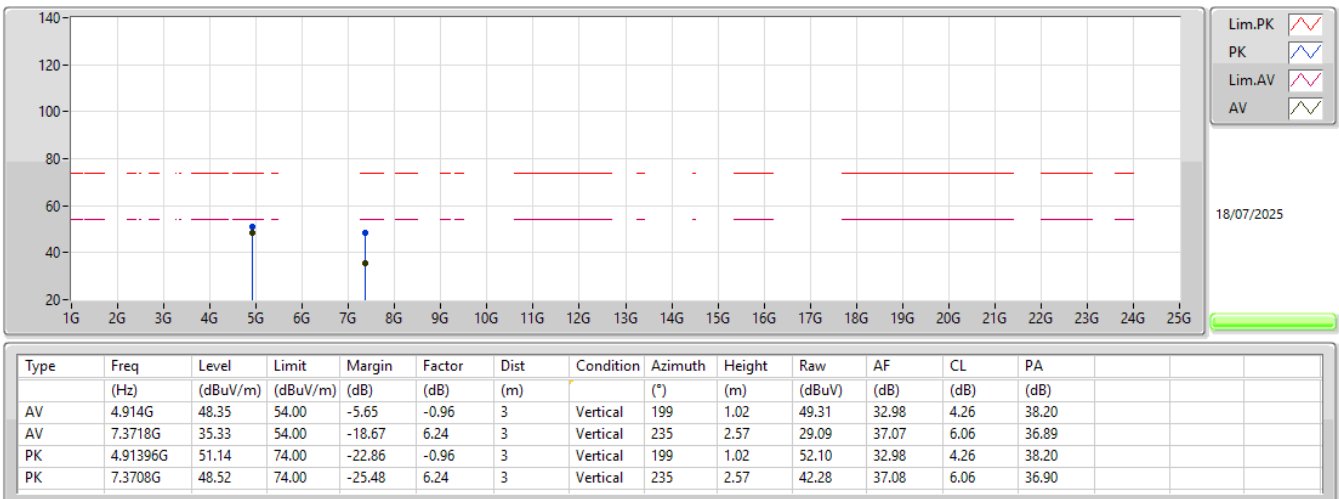
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX



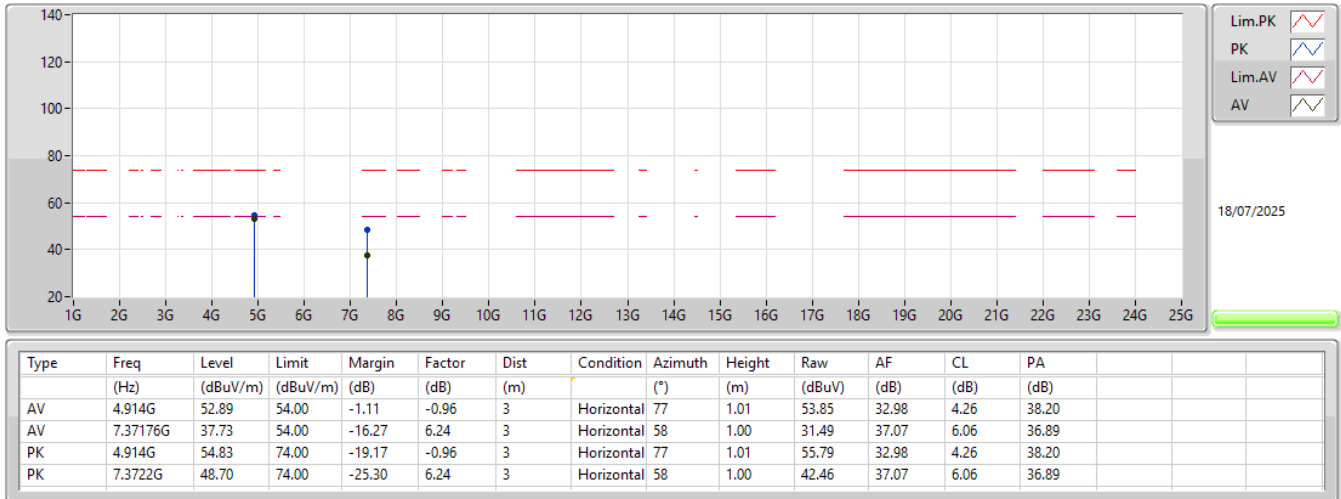
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX



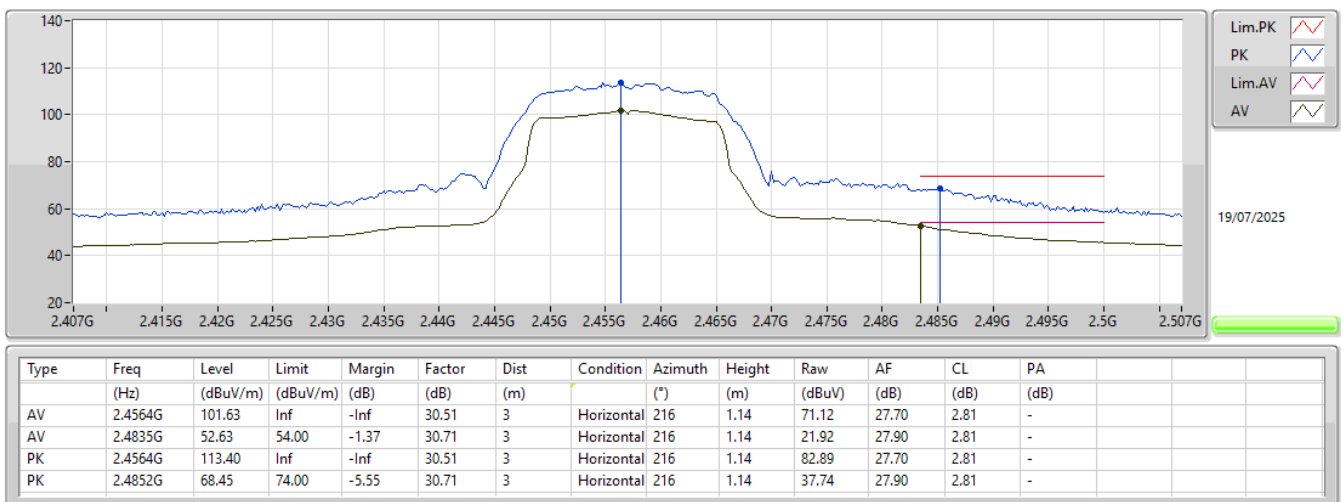
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX



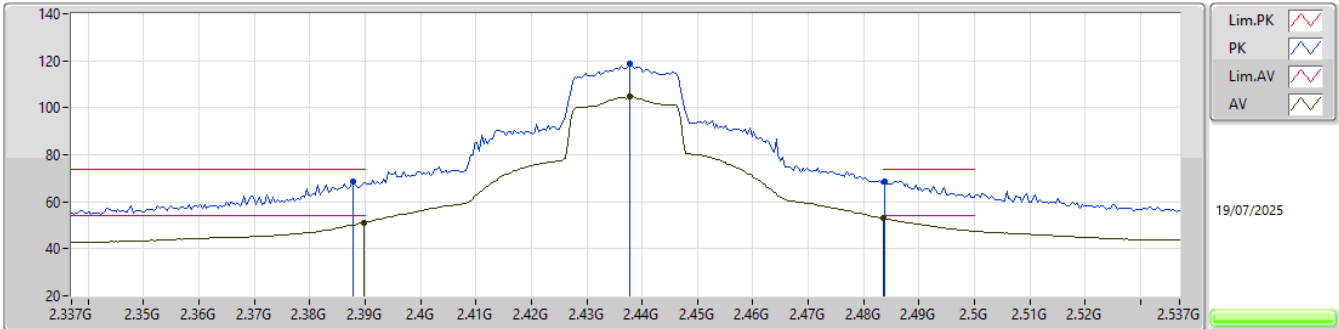
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2457MHz_TX



2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

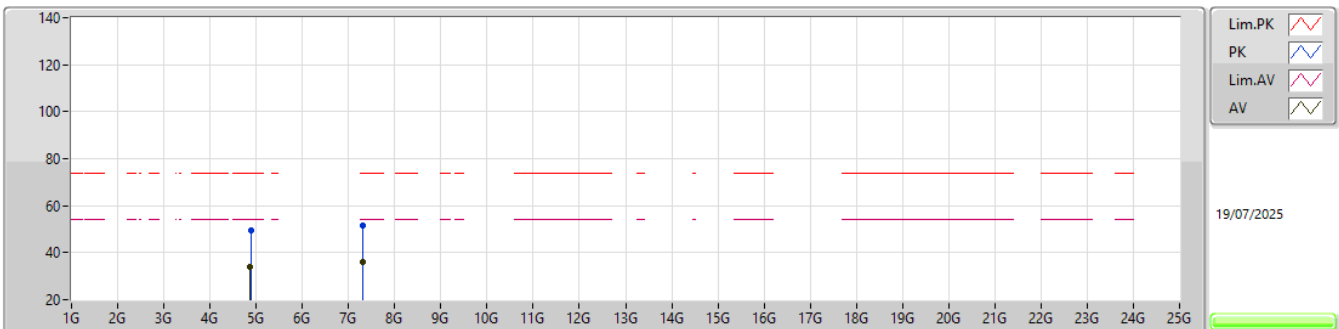
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	51.08	54.00	-2.92	30.30	3	Horizontal	217	1.29	20.78	27.50	2.80	-
AV	2.4378G	104.68	Inf	-Inf	30.51	3	Horizontal	217	1.29	74.17	27.70	2.81	-
AV	2.4835G	52.90	54.00	-1.10	30.71	3	Horizontal	217	1.29	22.19	27.90	2.81	-
PK	2.3878G	68.38	74.00	-5.62	30.28	3	Horizontal	217	1.29	38.10	27.48	2.80	-
PK	2.4378G	118.85	Inf	-Inf	30.51	3	Horizontal	217	1.29	88.34	27.70	2.81	-
PK	2.4838G	68.73	74.00	-5.27	30.71	3	Horizontal	217	1.29	38.02	27.90	2.81	-

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.874G	33.97	54.00	-20.03	-1.17	3	Vertical	200	1.05	35.14	32.80	4.24	38.21
AV	7.30964G	35.91	54.00	-18.09	6.39	3	Vertical	229	2.83	29.52	37.36	6.00	36.97
PK	4.87792G	49.28	74.00	-24.72	-1.15	3	Vertical	200	1.05	50.43	32.81	4.25	38.21
PK	7.30504G	51.47	74.00	-22.53	6.39	3	Vertical	229	2.83	45.08	37.38	5.99	36.98

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX

