

FCC Radio Test Report

FCC ID : HBW-C23AXXW1
Equipment : MYQ Smart Garage Camera / MYQ Smart Indoor Camera
Brand Name : myQ
Model Name : MYQ-C23AXXW1 / MYQ-C13AXXW1
Applicant : The Chamberlain Group LLC
300 Windsor Drive Oak Brook, IL 60523 USA
Manufacturer : The Chamberlain Group, LLC
300 Windsor Drive Oak Brook, IL 60523 USA
Standard : 47 CFR FCC Part 15.247

The product was received on Sep. 16, 2025, and testing was started from Sep. 16, 2025 and completed on Sep. 18, 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.)



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History of this test report

Report No.	Version	Description	Issued Date
FR591513AC	01	Initial issue of report	Sep. 24, 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)	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	802.11n HT20	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.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	INPAQ	Litt	PIFA	I-PEX	1.2

Note 1: The EUT has one antenna.

For 2.4GHz function:

For IEEE 802.11 b/g/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 AC Adapter		
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	0.944	0.25	12.419m	100
802.11g_Nss1,(6Mbps)_1TX	0.975	0.11	2.066m	500
802.11n HT20_Nss1,(MCS0)_1TX	0.875	0.58	1.922m	1k

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

1.1.5 Table for Multiple Listing

Equipment Name	Model No.	Different List
MYQ Smart Garage Camera	MYQ-C23AXXW1	Accessories include double-sided tape and a magnet in the base(USA)
MYQ Smart Indoor Camera	MYQ-C13AXXW1	Accessories include double-sided tape (USA)

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	Wayne Chiu	23.7~24.9℃ / 51~55%	18/Sep/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
Conducted	TH06-HY	Johnny Yu	23.4~23.9℃ / 52~55%	17/Sep/2025
Radiated	03CH25-HY	Rian Chung	22.7~24.1℃ / 52~56%	16/Sep/2025~17/Sep/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	UI_mptool
Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	20.5
2437MHz	21
2457MHz	20.25
2462MHz	19.75
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	21.5
2437MHz	21.5
2457MHz	21.5
2462MHz	19.75
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	20.75
2417MHz	21.5
2437MHz	21.5
2457MHz	21.25
2462MHz	20.25

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	USB 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	USB mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	

2.3 Accessories

Accessories				
AC Adapter	Brand Name	Flypower	Model Name	PS06CA050K1000UU
	Power Rating	I/P: 100 - 240Vac, 0.25A, O/P: 5.0 Vdc, 1.0A		
USB Cable Type C	Brand Name	N/A	Model Name	N/A

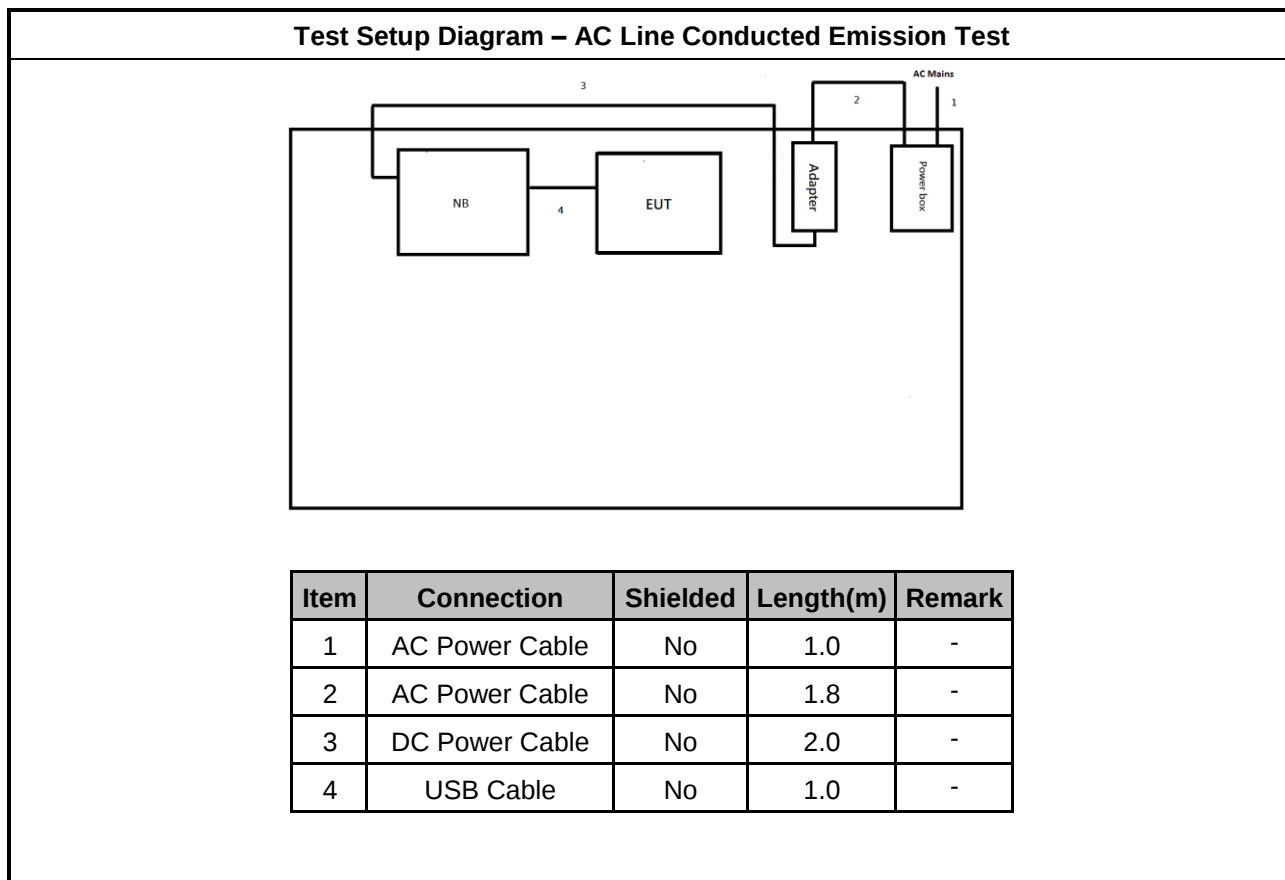
Reminder: Regarding to more detail and other information, please refer to user manual.

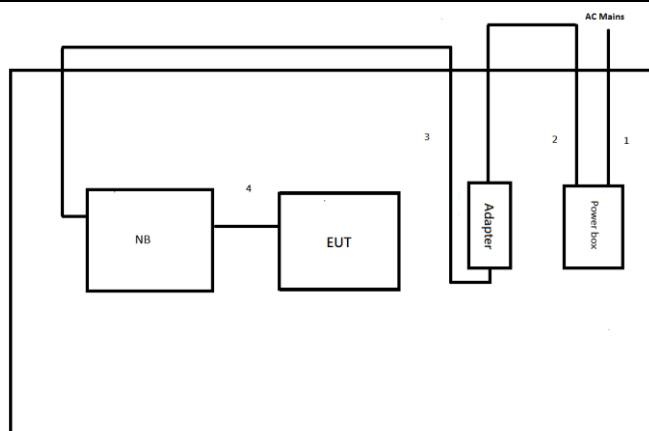
2.4 Support Equipment

Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC power Cable	Power sync	TPCMRN0018	-	-
2	Notebook	Dell	E5410	-	-
3	AC Adapter for NB	Dell	HA65NM130	-	-
4	USB Cable	NA	NA	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	console cable	N/A	N/A	-	Provided by Customer

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	AC Power Cable	No	1.8	-
3	DC Power Cable	No	2.0	-
4	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

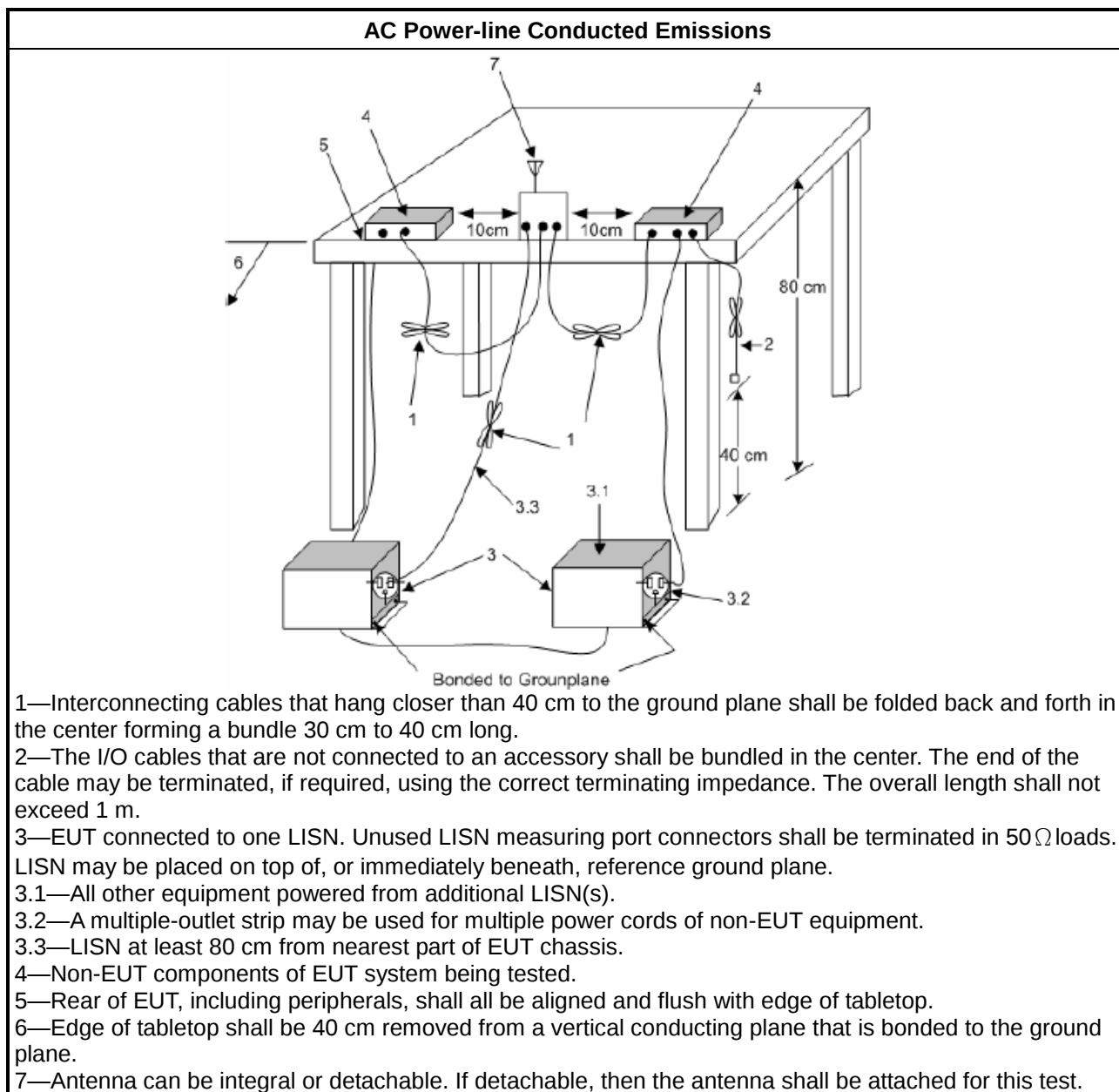
Test Method
☒ Refer as ANSI C63.10, clause 6.2 for AC power-line conducted emissions.

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.

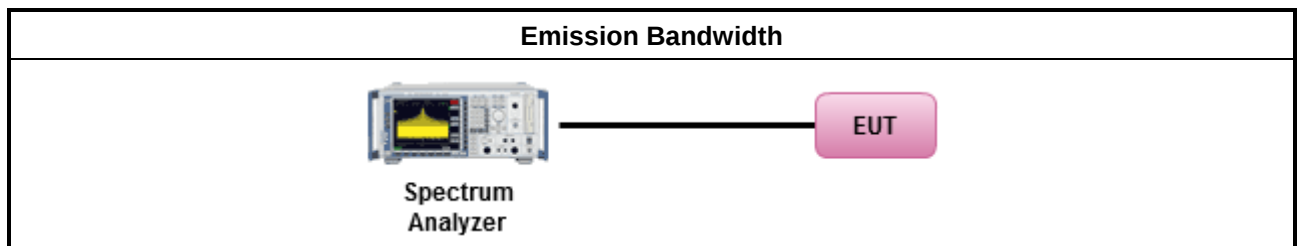
3.2.2 Measuring Instruments

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.	

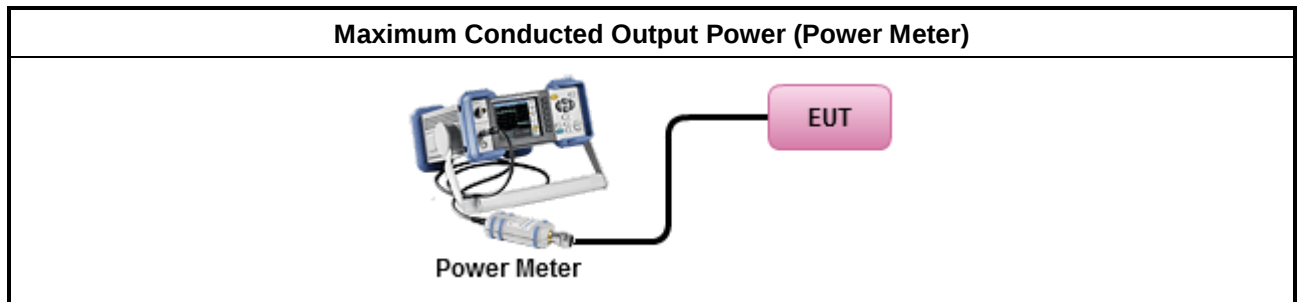
3.3.2 Measuring Instruments

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

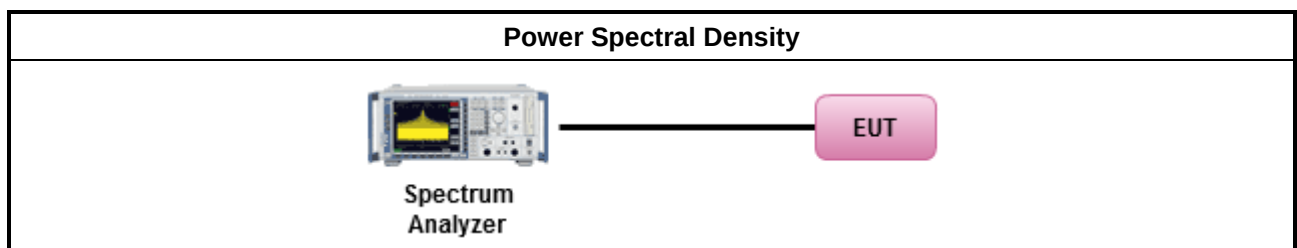
3.4.2 Measuring Instruments

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.	

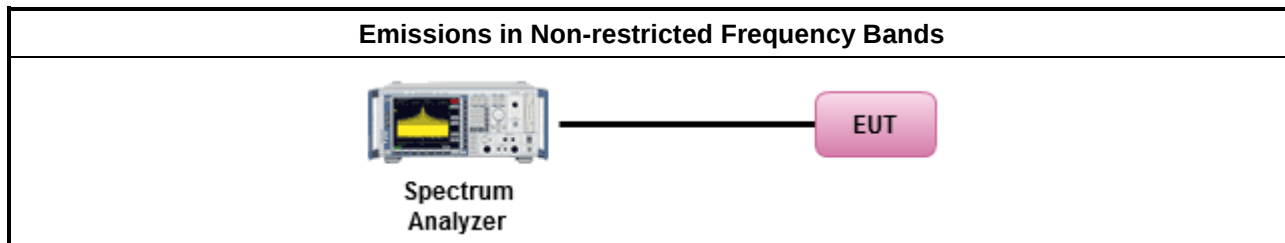
3.5.2 Measuring Instruments

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

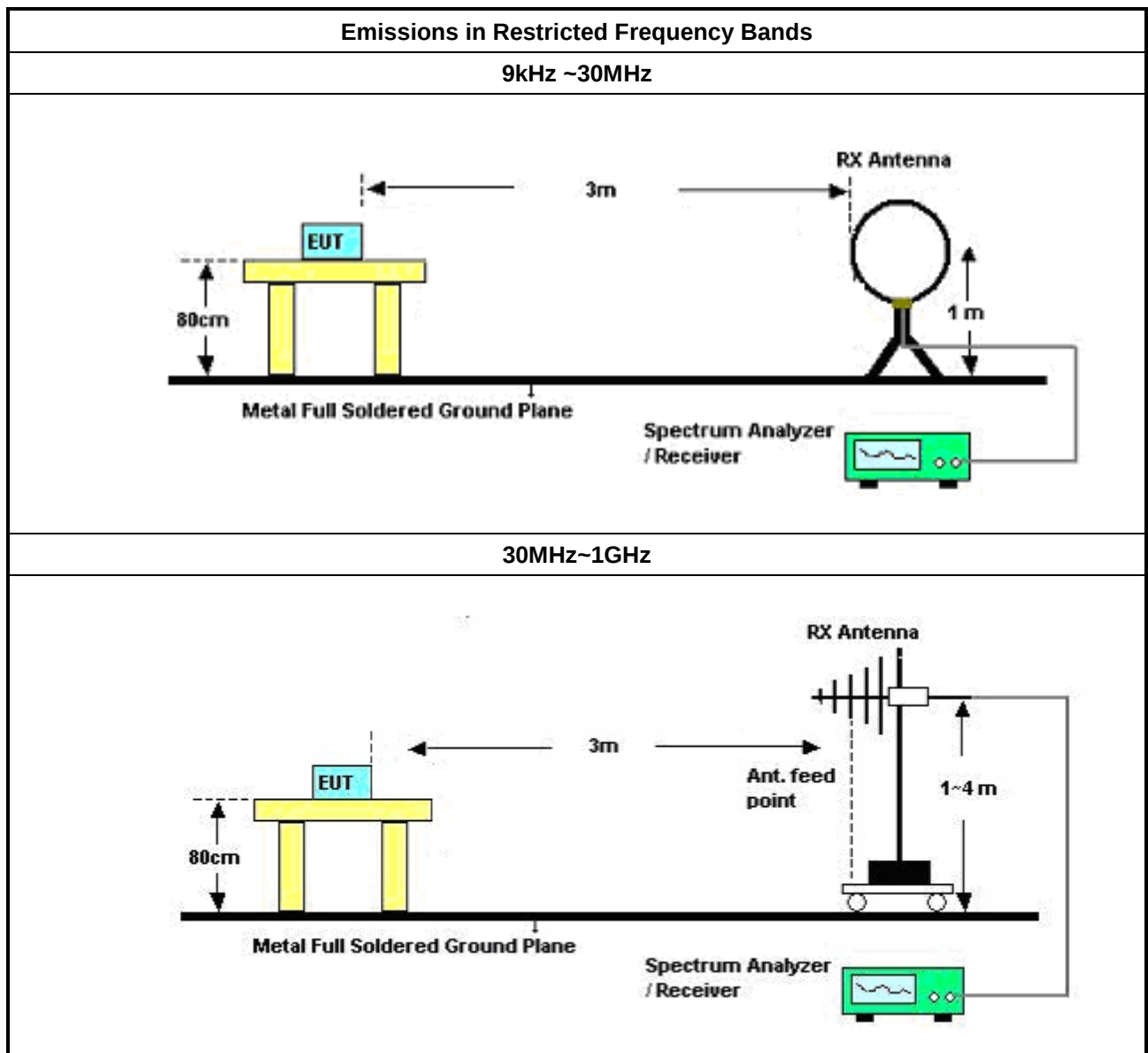
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted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

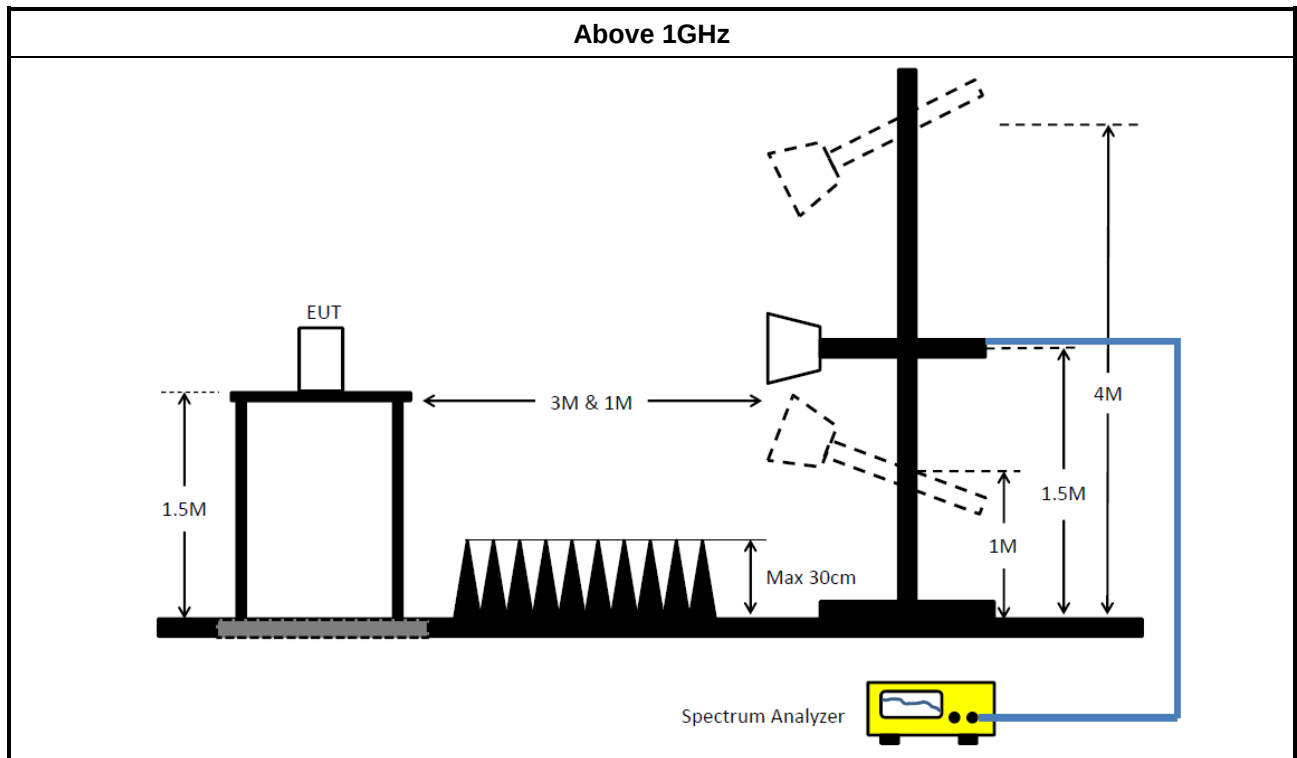
3.6.4 Measurement Results Calculation

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	101578	9kHz ~ 30MHz	24/Aug/2025	23/Aug/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	FSV 40	101029	10Hz~40GHz	28/Oct/2024	27/Oct/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	28/Mar/2025	27/Mar/2026
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	28/Mar/2025	27/Mar/2026
SENSE-15247_DTS	Sporton	V5.11.27	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	03CH25-HY	30MHz~1GHz 3m	18/Jul/2025	17/Jul/2026
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	1GHz~18GHz 3m	07/Aug/2025	06/Aug/2026
ESR7 EMI Test Receiver	ROHDE & SCHWARZ	ESR7	102956	9kHz~3.6GHz	26/Aug/2025	25/Aug/2026
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101410	10Hz~44GHz	18/Nov/2024	17/Nov/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63537/001	30MHz~1GHz	23/May/2025	22/May/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02876	1GHz~18GHz	02/Jul/2025	01/Jul/2026
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	9kHz~1GHz	23/Apr/2025	22/Apr/2026
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	1GHz~40GHz	15/Feb/2025	14/Feb/2026
Preamplifier	SGH	PRAMP 903	20230515-1	25MHz~3GHz	21/May/2025	20/May/2026
Preamplifier	SGH	PRAMP 118-H	20230515-3	1GHz~18GHz	21/May/2025	20/May/2026
Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	18/Apr/2025	17/Apr/2026
SENSE-15247-DTS	Sporton	V5.11.24	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

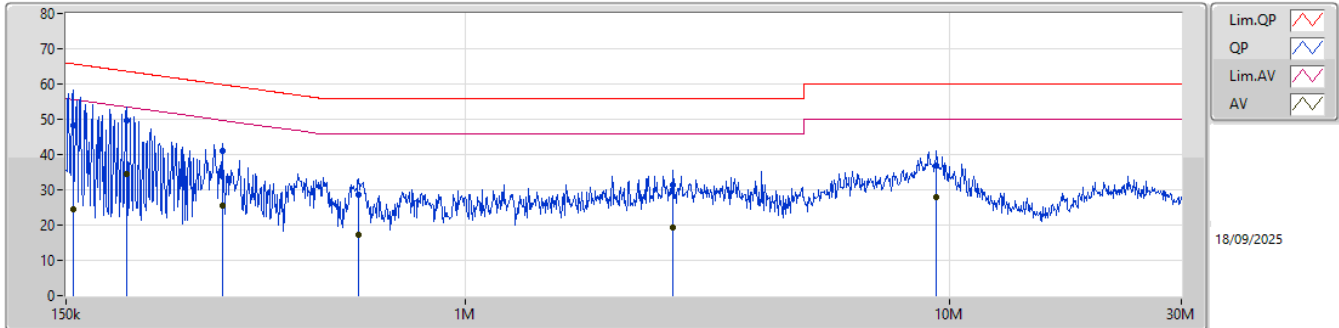
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	199.949k	49.65	63.61	-13.96	Line

Result

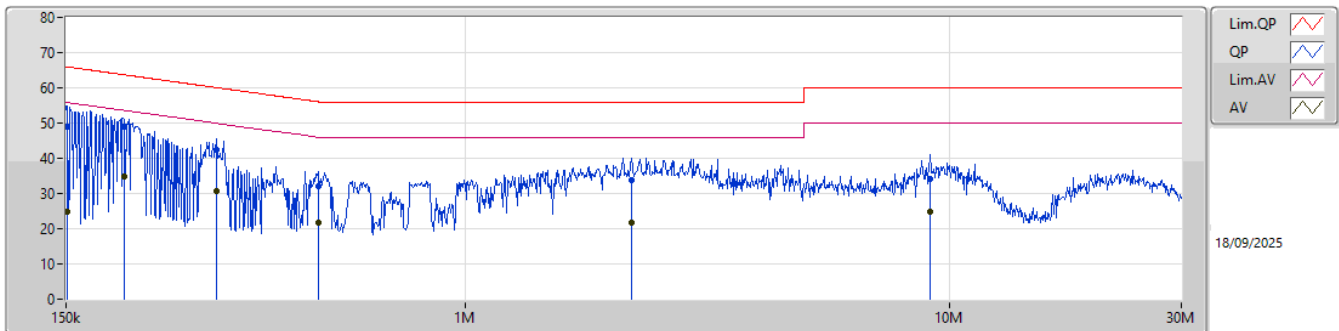
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	154.868k	48.20	65.73	-17.53	Line	-
Mode 1	Pass	AV	154.868k	24.33	55.73	-31.40	Line	-
Mode 1	Pass	QP	199.949k	49.65	63.61	-13.96	Line	-
Mode 1	Pass	AV	199.949k	34.43	53.61	-19.18	Line	-
Mode 1	Pass	QP	315.182k	41.03	59.82	-18.79	Line	-
Mode 1	Pass	AV	315.182k	25.67	49.82	-24.15	Line	-
Mode 1	Pass	QP	601.76k	28.70	56.00	-27.30	Line	-
Mode 1	Pass	AV	601.76k	17.41	46.00	-28.59	Line	-
Mode 1	Pass	QP	2.678M	31.24	56.00	-24.76	Line	-
Mode 1	Pass	AV	2.678M	19.32	46.00	-26.68	Line	-
Mode 1	Pass	QP	9.38M	36.87	60.00	-23.13	Line	-
Mode 1	Pass	AV	9.38M	28.09	50.00	-21.91	Line	-
Mode 1	Pass	QP	151.202k	49.09	65.92	-16.83	Neutral	-
Mode 1	Pass	AV	151.202k	24.91	55.92	-31.01	Neutral	-
Mode 1	Pass	QP	197.568k	49.06	63.71	-14.65	Neutral	-
Mode 1	Pass	AV	197.568k	34.87	53.71	-18.84	Neutral	-
Mode 1	Pass	QP	306.497k	42.46	60.07	-17.61	Neutral	-
Mode 1	Pass	AV	306.497k	30.81	50.07	-19.26	Neutral	-
Mode 1	Pass	QP	496.827k	32.22	56.06	-23.84	Neutral	-
Mode 1	Pass	AV	496.827k	21.60	46.06	-24.46	Neutral	-
Mode 1	Pass	QP	2.202M	33.89	56.00	-22.11	Neutral	-
Mode 1	Pass	AV	2.202M	21.80	46.00	-24.20	Neutral	-
Mode 1	Pass	QP	9.085M	34.03	60.00	-25.97	Neutral	-
Mode 1	Pass	AV	9.085M	24.85	50.00	-25.15	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	154.868k	48.20	65.73	-17.53	19.61	Line	-	28.59	9.63	0.01	9.97						
AV	154.868k	24.33	55.73	-31.40	19.61	Line	-	4.72	9.63	0.01	9.97						
QP	199.949k	49.65	63.61	-13.96	19.61	Line	-	30.04	9.63	0.01	9.97						
AV	199.949k	34.43	53.61	-19.18	19.61	Line	-	14.82	9.63	0.01	9.97						
QP	315.182k	41.03	59.82	-18.79	19.63	Line	-	21.40	9.63	0.02	9.98						
AV	315.182k	25.67	49.82	-24.15	19.63	Line	-	6.04	9.63	0.02	9.98						
QP	601.76k	28.70	56.00	-27.30	19.65	Line	-	9.05	9.63	0.04	9.98						
AV	601.76k	17.41	46.00	-28.59	19.65	Line	-	-2.24	9.63	0.04	9.98						
QP	2.678M	31.24	56.00	-24.76	19.65	Line	-	11.59	9.64	0.04	9.97						
AV	2.678M	19.32	46.00	-26.68	19.65	Line	-	-0.33	9.64	0.04	9.97						
QP	9.38M	36.87	60.00	-23.13	19.89	Line	-	16.98	9.68	0.23	9.98						
AV	9.38M	28.09	50.00	-21.91	19.89	Line	-	8.20	9.68	0.23	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	151.202k	49.09	65.92	-16.83	19.61	Neutral	-	29.48	9.63	0.01	9.97						
AV	151.202k	24.91	55.92	-31.01	19.61	Neutral	-	5.30	9.63	0.01	9.97						
QP	197.568k	49.06	63.71	-14.65	19.60	Neutral	-	29.46	9.62	0.01	9.97						
AV	197.568k	34.87	53.71	-18.84	19.60	Neutral	-	15.27	9.62	0.01	9.97						
QP	306.497k	42.46	60.07	-17.61	19.63	Neutral	-	22.83	9.63	0.02	9.98						
AV	306.497k	30.81	50.07	-19.26	19.63	Neutral	-	11.18	9.63	0.02	9.98						
QP	496.827k	32.22	56.06	-23.84	19.64	Neutral	-	12.58	9.63	0.03	9.98						
AV	496.827k	21.60	46.06	-24.46	19.64	Neutral	-	1.96	9.63	0.03	9.98						
QP	2.202M	33.89	56.00	-22.11	19.64	Neutral	-	14.25	9.64	0.03	9.97						
AV	2.202M	21.80	46.00	-24.20	19.64	Neutral	-	2.16	9.64	0.03	9.97						
QP	9.085M	34.03	60.00	-25.97	19.89	Neutral	-	14.14	9.69	0.22	9.98						
AV	9.085M	24.85	50.00	-25.15	19.89	Neutral	-	4.96	9.69	0.22	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	9.46M	13.743M	13M7G1D	9.405M	13.688M
802.11g_Nss1,(6Mbps)_1TX	15.29M	16.657M	16M7D1D	13.86M	16.547M
802.11n HT20_Nss1,(MCS0)_1TX	15.565M	17.811M	17M8D1D	14.63M	17.536M

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

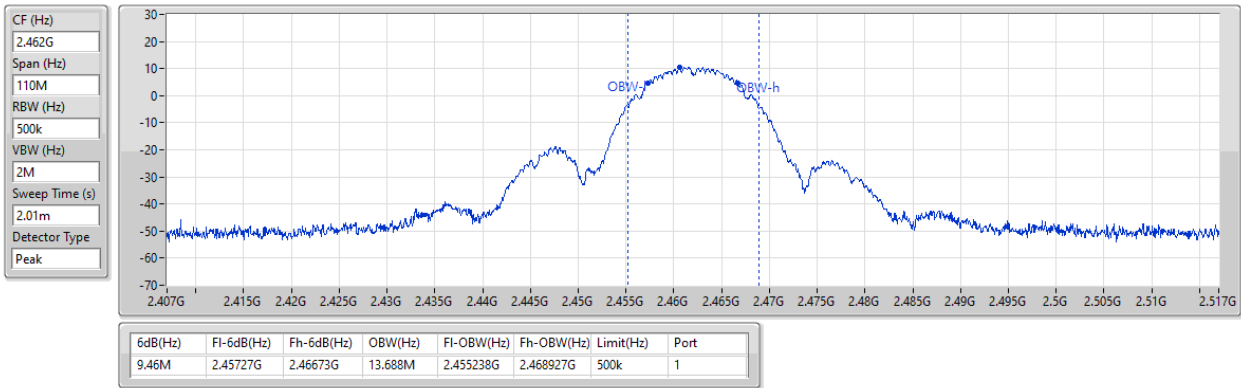
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	9.405M	13.743M
2437MHz	Pass	500k	9.405M	13.743M
2462MHz	Pass	500k	9.46M	13.688M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	14.245M	16.657M
2437MHz	Pass	500k	13.86M	16.657M
2462MHz	Pass	500k	15.29M	16.547M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	15.07M	17.646M
2437MHz	Pass	500k	15.565M	17.811M
2462MHz	Pass	500k	14.63M	17.536M

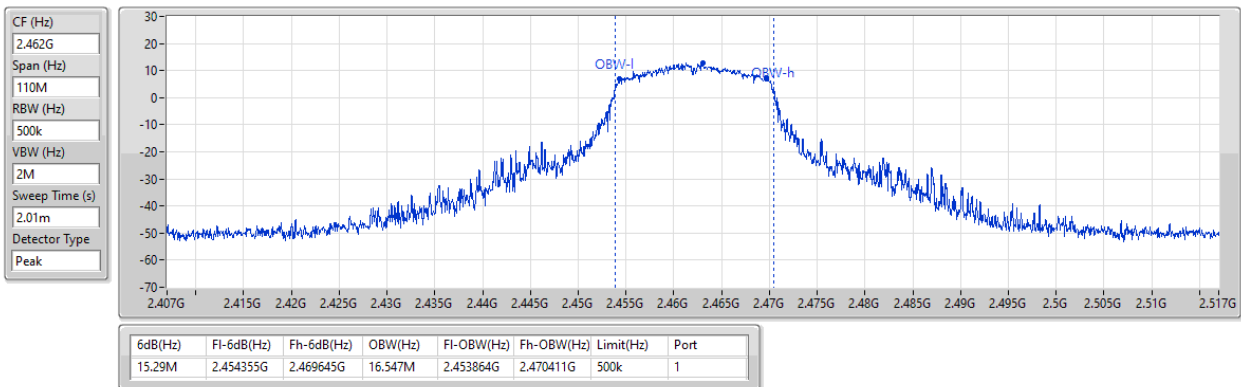
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2462MHz

17/09/2025


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2462MHz

17/09/2025

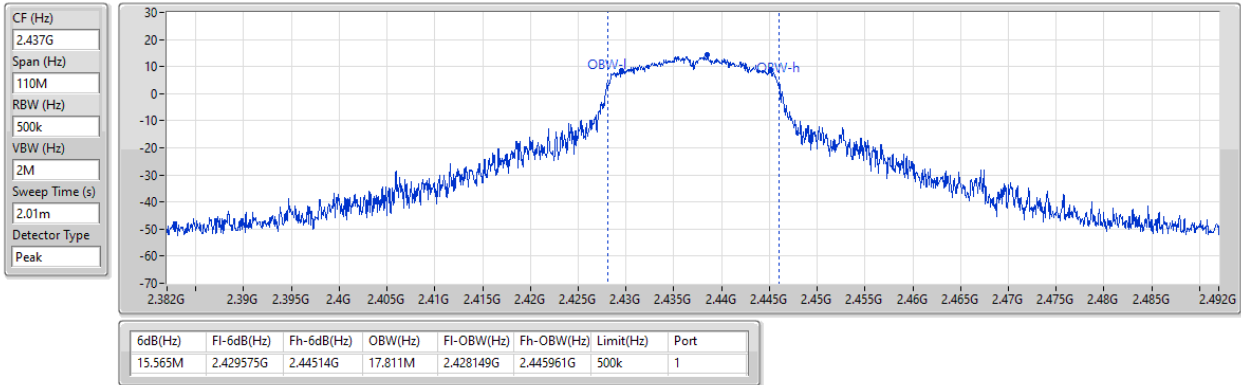


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

EBW

2437MHz

17/09/2025





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	19.96	0.09908
802.11g_Nss1,(6Mbps)_1TX	20.81	0.12050
802.11n HT20_Nss1,(MCS0)_1TX	20.36	0.10864

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	1.20	19.96	19.96	30.00
2437MHz	Pass	1.20	19.82	19.82	30.00
2457MHz	Pass	1.20	19.05	19.05	30.00
2462MHz	Pass	1.20	18.42	18.42	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	1.20	20.48	20.48	30.00
2437MHz	Pass	1.20	20.26	20.26	30.00
2457MHz	Pass	1.20	20.81	20.81	30.00
2462MHz	Pass	1.20	18.75	18.75	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	1.20	19.64	19.64	30.00
2417MHz	Pass	1.20	20.36	20.36	30.00
2437MHz	Pass	1.20	20.01	20.01	30.00
2457MHz	Pass	1.20	20.00	20.00	30.00
2462MHz	Pass	1.20	18.93	18.93	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	-5.18
802.11g_Nss1,(6Mbps)_1TX	-6.44
802.11n HT20_Nss1,(MCS0)_1TX	-5.28

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	1.20	-5.18	-5.18	8.00
2437MHz	Pass	1.20	-5.32	-5.32	8.00
2462MHz	Pass	1.20	-7.52	-7.52	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	1.20	-6.44	-6.44	8.00
2437MHz	Pass	1.20	-6.58	-6.58	8.00
2462MHz	Pass	1.20	-9.07	-9.07	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	1.20	-5.84	-5.84	8.00
2437MHz	Pass	1.20	-5.28	-5.28	8.00
2462MHz	Pass	1.20	-6.74	-6.74	8.00

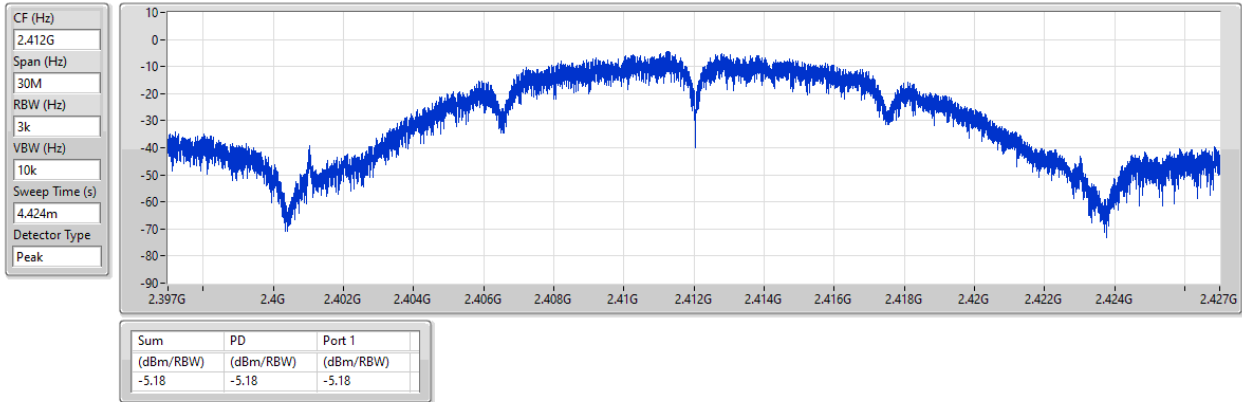
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
 Inf = There's no restriction for the limit.

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

PSD

2412MHz

17/09/2025

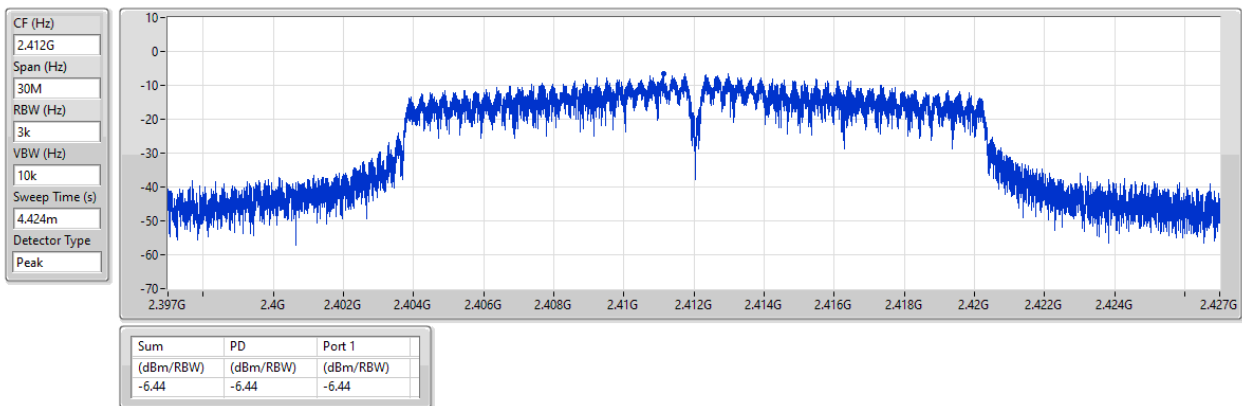


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

17/09/2025

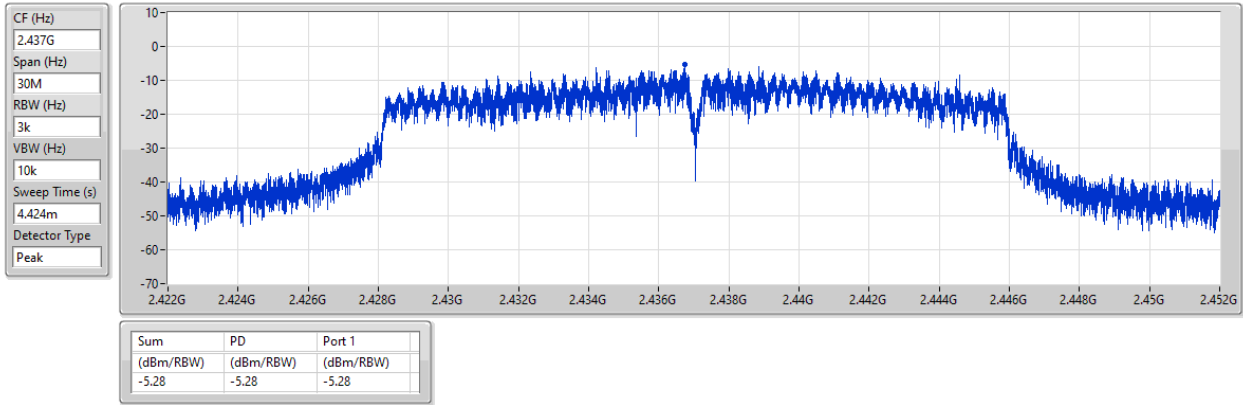


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

PSD

2437MHz

17/09/2025





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	2.43657G	10.55	-19.45	2.12351G	-55.45	2.3976G	-20.89	2.4G	-33.06	2.50318G	-52.80	23.36203G	-41.85	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43574G	10.21	-19.79	2.30758G	-54.73	2.39648G	-20.40	2.4G	-22.93	2.50006G	-52.86	16.32407G	-42.30	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.43824G	9.78	-20.22	1.96856G	-55.15	2.39872G	-20.41	2.4G	-22.62	2.50558G	-53.44	16.84103G	-41.33	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	2.43657G	10.55	-19.45	2.12351G	-55.45	2.3976G	-20.89	2.4G	-33.06	2.50318G	-52.80	23.36203G	-41.85	1
2437MHz	Pass	2.43657G	10.55	-19.45	2.30292G	-55.20	2.39784G	-51.47	2.4G	-51.52	2.50678G	-53.34	24.6488G	-41.93	1
2462MHz	Pass	2.43657G	10.55	-19.45	2.30408G	-55.52	2.39128G	-53.99	2.4G	-56.42	2.50006G	-53.41	16.25945G	-41.73	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	10.21	-19.79	2.30758G	-54.73	2.39648G	-20.40	2.4G	-22.93	2.50006G	-52.86	16.32407G	-42.30	1
2437MHz	Pass	2.43574G	10.21	-19.79	1.72974G	-55.21	2.39904G	-44.50	2.4G	-43.59	2.50958G	-52.59	17.61366G	-41.47	1
2462MHz	Pass	2.43574G	10.21	-19.79	1.94759G	-55.62	2.39448G	-53.45	2.4G	-55.42	2.50046G	-50.18	15.2452G	-42.26	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	9.78	-20.22	1.96856G	-55.15	2.39872G	-20.41	2.4G	-22.62	2.50558G	-53.44	16.84103G	-41.33	1
2437MHz	Pass	2.43824G	9.78	-20.22	2.13632G	-54.00	2.3992G	-43.54	2.4G	-45.22	2.51886G	-53.03	16.23136G	-41.52	1
2462MHz	Pass	2.43824G	9.78	-20.22	2.30408G	-55.25	2.39728G	-53.43	2.4G	-55.72	2.50038G	-50.43	15.18339G	-41.92	1

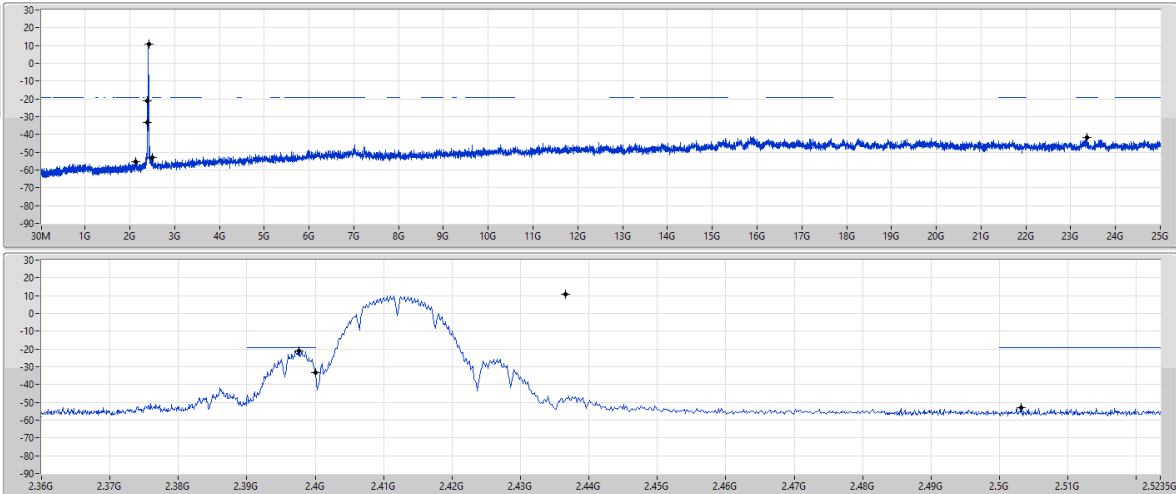
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2412MHz

17/09/2025

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
2.43657G	10.55	-19.45	2.12351G	-55.45	2.3976G	-20.89	2.4G	-33.06	2.50318G	-52.80	2.336203G	-41.85	1

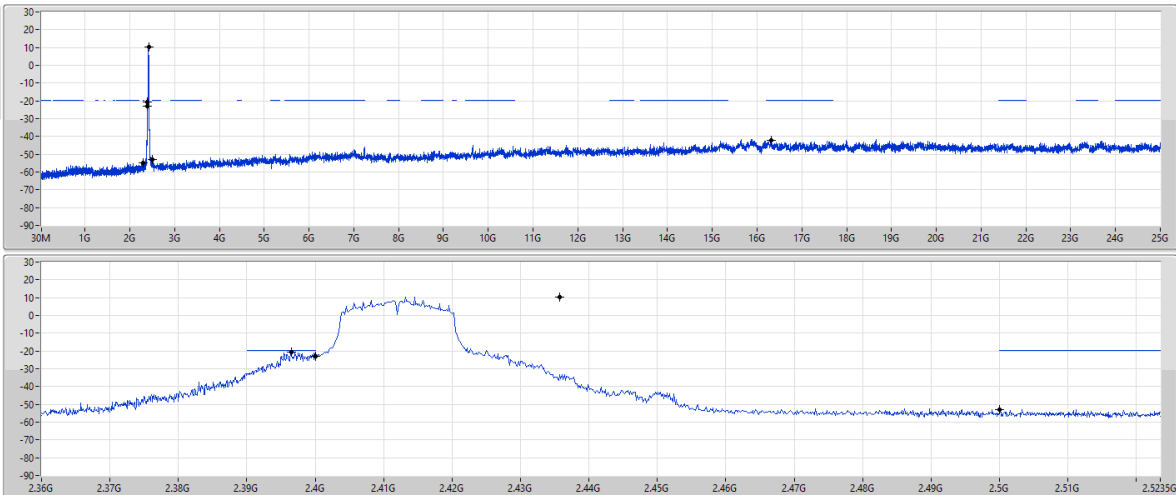
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

CSEndB

2412MHz

17/09/2025

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
2.43574G	10.21	-19.79	2.30758G	-54.73	2.39648G	-20.40	2.4G	-22.93	2.50006G	-52.86	16.32407G	-42.30	1

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

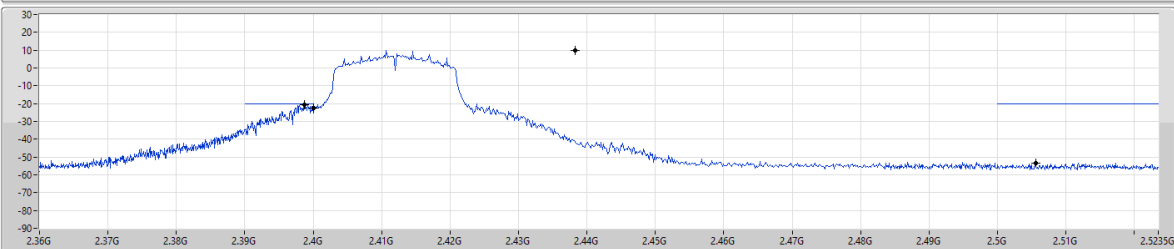
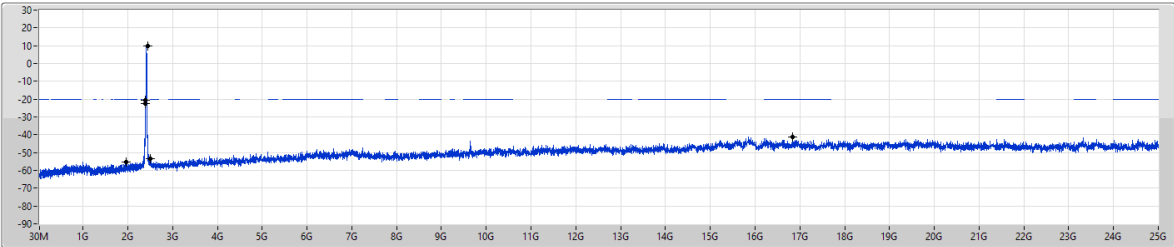
CSEndB

2412MHz

17/09/2025

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
2.43824G	9.78	-20.22	1.96856G	-55.15	2.39872G	-20.41	2.4G	-22.62	2.50558G	-53.44	16.84103G	-41.33	1



Summary

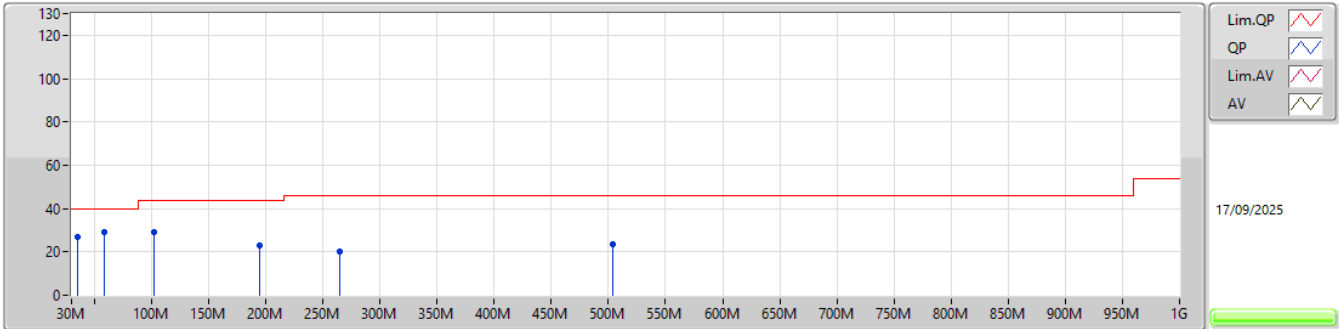
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	PK	72.68M	29.22	40.00	-10.78	3	Horizontal	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2437MHz_USB	Pass	PK	35.82M	27.07	40.00	-12.93	3	Vertical	0	1.00
2437MHz_USB	Pass	PK	59.1M	29.12	40.00	-10.88	3	Vertical	0	1.00
2437MHz_USB	Pass	PK	101.78M	29.06	43.50	-14.44	3	Vertical	0	1.00
2437MHz_USB	Pass	PK	194.9M	23.17	43.50	-20.33	3	Vertical	0	1.00
2437MHz_USB	Pass	PK	264.74M	20.06	46.00	-25.94	3	Vertical	0	1.00
2437MHz_USB	Pass	PK	503.36M	23.71	46.00	-22.29	3	Vertical	0	1.00
2437MHz_USB	Pass	PK	72.68M	29.22	40.00	-10.78	3	Horizontal	360	1.00
2437MHz_USB	Pass	PK	103.72M	25.38	43.50	-18.12	3	Horizontal	360	1.00
2437MHz_USB	Pass	PK	163.86M	28.52	43.50	-14.98	3	Horizontal	360	1.00
2437MHz_USB	Pass	PK	177.44M	31.37	43.50	-12.13	3	Horizontal	360	1.00
2437MHz_USB	Pass	PK	272.5M	26.74	46.00	-19.26	3	Horizontal	360	1.00
2437MHz_USB	Pass	PK	402.48M	25.66	46.00	-20.34	3	Horizontal	360	1.00

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

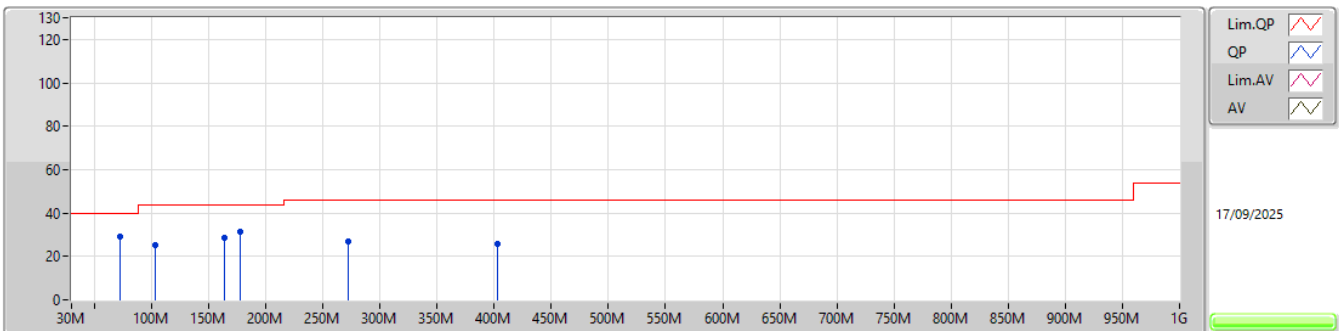
2437MHz_USB



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)
PK	35.82M	27.07	40.00	-12.93	-21.81	3	Vertical	0	1.00	48.88	21.99	0.67	44.47
PK	59.1M	29.12	40.00	-10.88	-31.60	3	Vertical	0	1.00	60.72	12.12	0.87	44.59
PK	101.78M	29.06	43.50	-14.44	-26.87	3	Vertical	0	1.00	55.93	16.52	1.11	44.50
PK	194.9M	23.17	43.50	-20.33	-27.73	3	Vertical	0	1.00	50.90	15.13	1.51	44.37
PK	264.74M	20.06	46.00	-25.94	-22.16	3	Vertical	0	1.00	42.22	20.40	1.70	44.26
PK	503.36M	23.71	46.00	-22.29	-17.45	3	Vertical	0	1.00	41.16	24.20	2.25	43.90

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

2437MHz_USB



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)
PK	72.68M	29.22	40.00	-10.78	-30.71	3	Horizontal	360	1.00	59.93	12.88	0.99	44.58
PK	103.72M	25.38	43.50	-18.12	-26.73	3	Horizontal	360	1.00	52.11	16.66	1.12	44.51
PK	163.86M	28.52	43.50	-14.98	-26.73	3	Horizontal	360	1.00	55.25	16.38	1.39	44.50
PK	177.44M	31.37	43.50	-12.13	-27.50	3	Horizontal	360	1.00	58.87	15.48	1.44	44.42
PK	272.5M	26.74	46.00	-19.26	-23.41	3	Horizontal	360	1.00	50.15	19.12	1.71	44.24
PK	402.48M	25.66	46.00	-20.34	-19.93	3	Horizontal	360	1.00	45.59	22.07	2.02	44.02



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	7.37048G	53.36	54.00	-0.64	3	Vertical	144	2.96
802.11g_Nss1,(6Mbps)_1TX	Pass	PK	2.4835G	73.40	74.00	-0.60	3	Horizontal	89	2.15
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.4835G	53.47	54.00	-0.53	3	Horizontal	88	2.48

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_TX	Pass	AV	2.3872G	51.16	54.00	-2.84	3	Vertical	147	2.32
2412MHz_TX	Pass	AV	2.4112G	102.43	Inf	-Inf	3	Vertical	147	2.32
2412MHz_TX	Pass	PK	2.3876G	60.60	74.00	-13.40	3	Vertical	147	2.32
2412MHz_TX	Pass	PK	2.412G	105.32	Inf	-Inf	3	Vertical	147	2.32
2412MHz_TX	Pass	AV	2.3872G	52.93	54.00	-1.07	3	Horizontal	266	2.55
2412MHz_TX	Pass	AV	2.4114G	105.70	Inf	-Inf	3	Horizontal	266	2.55
2412MHz_TX	Pass	PK	2.3876G	61.01	74.00	-12.99	3	Horizontal	266	2.55
2412MHz_TX	Pass	PK	2.412G	108.53	Inf	-Inf	3	Horizontal	266	2.55
2412MHz_TX	Pass	AV	4.82416G	42.22	54.00	-11.78	3	Vertical	188	1.50
2412MHz_TX	Pass	PK	4.82416G	47.29	74.00	-26.71	3	Vertical	188	1.50
2412MHz_TX	Pass	AV	4.82416G	45.41	54.00	-8.59	3	Horizontal	217	1.55
2412MHz_TX	Pass	PK	4.82412G	49.17	74.00	-24.83	3	Horizontal	217	1.55
2437MHz_TX	Pass	AV	2.387G	44.53	54.00	-9.47	3	Vertical	97	1.14
2437MHz_TX	Pass	AV	2.4378G	100.16	Inf	-Inf	3	Vertical	97	1.14
2437MHz_TX	Pass	AV	2.4958G	45.55	54.00	-8.45	3	Vertical	97	1.14
2437MHz_TX	Pass	PK	2.379G	57.90	74.00	-16.10	3	Vertical	97	1.14
2437MHz_TX	Pass	PK	2.4374G	102.95	Inf	-Inf	3	Vertical	97	1.14
2437MHz_TX	Pass	PK	2.4886G	59.32	74.00	-14.68	3	Vertical	97	1.14
2437MHz_TX	Pass	AV	2.3486G	44.57	54.00	-9.43	3	Horizontal	87	2.17
2437MHz_TX	Pass	AV	2.4362G	104.97	Inf	-Inf	3	Horizontal	87	2.17
2437MHz_TX	Pass	AV	2.4998G	45.61	54.00	-8.39	3	Horizontal	87	2.17
2437MHz_TX	Pass	PK	2.363G	59.23	74.00	-14.77	3	Horizontal	87	2.17
2437MHz_TX	Pass	PK	2.437G	107.86	Inf	-Inf	3	Horizontal	87	2.17
2437MHz_TX	Pass	PK	2.4942G	59.57	74.00	-14.43	3	Horizontal	87	2.17
2437MHz_TX	Pass	AV	4.87416G	51.28	54.00	-2.72	3	Vertical	187	1.23
2437MHz_TX	Pass	AV	7.31044G	52.62	54.00	-1.38	3	Vertical	211	1.07
2437MHz_TX	Pass	PK	4.87416G	53.56	74.00	-20.44	3	Vertical	187	1.23
2437MHz_TX	Pass	PK	7.3112G	57.70	74.00	-16.30	3	Vertical	211	1.07
2437MHz_TX	Pass	AV	4.87412G	46.28	54.00	-7.72	3	Horizontal	227	2.00
2437MHz_TX	Pass	AV	7.31052G	53.10	54.00	-0.90	3	Horizontal	3	1.50
2437MHz_TX	Pass	PK	4.87408G	49.89	74.00	-24.11	3	Horizontal	227	2.00
2437MHz_TX	Pass	PK	7.31104G	58.00	74.00	-16.00	3	Horizontal	3	1.50
2457MHz_TX	Pass	AV	2.4564G	100.09	Inf	-Inf	3	Vertical	97	1.04
2457MHz_TX	Pass	AV	2.4838G	46.66	54.00	-7.34	3	Vertical	97	1.04
2457MHz_TX	Pass	PK	2.457G	103.08	Inf	-Inf	3	Vertical	97	1.04
2457MHz_TX	Pass	PK	2.4984G	59.81	74.00	-14.19	3	Vertical	97	1.04
2457MHz_TX	Pass	AV	2.4564G	102.89	Inf	-Inf	3	Horizontal	266	2.10
2457MHz_TX	Pass	AV	2.4854G	46.88	54.00	-7.12	3	Horizontal	266	2.10
2457MHz_TX	Pass	PK	2.457G	105.80	Inf	-Inf	3	Horizontal	266	2.10
2457MHz_TX	Pass	PK	2.485G	59.51	74.00	-14.49	3	Horizontal	266	2.10
2457MHz_TX	Pass	AV	4.91416G	52.05	54.00	-1.95	3	Vertical	188	1.25
2457MHz_TX	Pass	AV	7.37048G	53.36	54.00	-0.64	3	Vertical	144	2.96
2457MHz_TX	Pass	PK	4.9142G	54.24	74.00	-19.76	3	Vertical	188	1.25
2457MHz_TX	Pass	PK	7.37124G	58.03	74.00	-15.97	3	Vertical	144	2.96
2457MHz_TX	Pass	AV	4.91412G	47.64	54.00	-6.36	3	Horizontal	205	1.35
2457MHz_TX	Pass	AV	7.37196G	51.27	54.00	-2.73	3	Horizontal	360	2.07
2457MHz_TX	Pass	PK	4.91432G	50.62	74.00	-23.38	3	Horizontal	205	1.35
2457MHz_TX	Pass	PK	7.37088G	56.63	74.00	-17.37	3	Horizontal	360	2.07
2462MHz_TX	Pass	AV	2.4614G	99.51	Inf	-Inf	3	Vertical	98	1.50
2462MHz_TX	Pass	AV	2.4872G	46.71	54.00	-7.29	3	Vertical	98	1.50
2462MHz_TX	Pass	PK	2.4622G	102.43	Inf	-Inf	3	Vertical	98	1.50
2462MHz_TX	Pass	PK	2.4982G	59.79	74.00	-14.21	3	Vertical	98	1.50
2462MHz_TX	Pass	AV	2.4614G	101.47	Inf	-Inf	3	Horizontal	275	1.56
2462MHz_TX	Pass	AV	2.4874G	46.56	54.00	-7.44	3	Horizontal	275	1.56
2462MHz_TX	Pass	PK	2.462G	104.47	Inf	-Inf	3	Horizontal	275	1.56
2462MHz_TX	Pass	PK	2.4982G	59.97	74.00	-14.03	3	Horizontal	275	1.56
2462MHz_TX	Pass	AV	4.92412G	51.12	54.00	-2.88	3	Vertical	188	1.25
2462MHz_TX	Pass	AV	7.38548G	52.85	54.00	-1.15	3	Vertical	137	1.94
2462MHz_TX	Pass	PK	4.92412G	53.22	74.00	-20.78	3	Vertical	188	1.25
2462MHz_TX	Pass	PK	7.38652G	57.71	74.00	-16.29	3	Vertical	137	1.94

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2462MHz_TX	Pass	AV	4.92416G	47.49	54.00	-6.51	3	Horizontal	204	1.48
2462MHz_TX	Pass	AV	7.38548G	51.03	54.00	-2.97	3	Horizontal	353	2.05
2462MHz_TX	Pass	PK	4.92412G	50.56	74.00	-23.44	3	Horizontal	204	1.48
2462MHz_TX	Pass	PK	7.38628G	56.39	74.00	-17.61	3	Horizontal	353	2.05
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz_TX	Pass	AV	2.39G	49.88	54.00	-4.12	3	Vertical	151	1.99
2412MHz_TX	Pass	AV	2.4114G	96.72	Inf	-Inf	3	Vertical	151	1.99
2412MHz_TX	Pass	PK	2.39G	70.03	74.00	-3.97	3	Vertical	151	1.99
2412MHz_TX	Pass	PK	2.413G	106.48	Inf	-Inf	3	Vertical	151	1.99
2412MHz_TX	Pass	AV	2.39G	52.14	54.00	-1.86	3	Horizontal	273	2.01
2412MHz_TX	Pass	AV	2.4126G	99.54	Inf	-Inf	3	Horizontal	273	2.01
2412MHz_TX	Pass	PK	2.39G	72.09	74.00	-1.91	3	Horizontal	273	2.01
2412MHz_TX	Pass	PK	2.413G	109.18	Inf	-Inf	3	Horizontal	273	2.01
2412MHz_TX	Pass	AV	4.82496G	36.64	54.00	-17.36	3	Vertical	187	1.34
2412MHz_TX	Pass	PK	4.82336G	50.70	74.00	-23.30	3	Vertical	187	1.34
2412MHz_TX	Pass	AV	4.8252G	37.85	54.00	-16.15	3	Horizontal	257	1.00
2412MHz_TX	Pass	PK	4.8268G	52.51	74.00	-21.49	3	Horizontal	257	1.00
2437MHz_TX	Pass	AV	2.3894G	45.04	54.00	-8.96	3	Vertical	97	1.11
2437MHz_TX	Pass	AV	2.4378G	96.32	Inf	-Inf	3	Vertical	97	1.11
2437MHz_TX	Pass	AV	2.4998G	46.03	54.00	-7.97	3	Vertical	97	1.11
2437MHz_TX	Pass	PK	2.3718G	57.95	74.00	-16.05	3	Vertical	97	1.11
2437MHz_TX	Pass	PK	2.4378G	106.13	Inf	-Inf	3	Vertical	97	1.11
2437MHz_TX	Pass	PK	2.4922G	59.33	74.00	-14.67	3	Vertical	97	1.11
2437MHz_TX	Pass	AV	2.387G	44.95	54.00	-9.05	3	Horizontal	86	2.17
2437MHz_TX	Pass	AV	2.4366G	100.80	Inf	-Inf	3	Horizontal	86	2.17
2437MHz_TX	Pass	AV	2.4986G	45.98	54.00	-8.02	3	Horizontal	86	2.17
2437MHz_TX	Pass	PK	2.3654G	58.12	74.00	-15.88	3	Horizontal	86	2.17
2437MHz_TX	Pass	PK	2.4378G	110.34	Inf	-Inf	3	Horizontal	86	2.17
2437MHz_TX	Pass	PK	2.4982G	58.99	74.00	-15.01	3	Horizontal	86	2.17
2437MHz_TX	Pass	AV	4.8752G	39.16	54.00	-14.84	3	Vertical	188	1.10
2437MHz_TX	Pass	AV	7.31124G	44.60	54.00	-9.40	3	Vertical	225	1.46
2437MHz_TX	Pass	PK	4.87368G	53.03	74.00	-20.97	3	Vertical	188	1.10
2437MHz_TX	Pass	PK	7.3084G	59.20	74.00	-14.80	3	Vertical	225	1.46
2437MHz_TX	Pass	AV	4.87516G	39.20	54.00	-14.80	3	Horizontal	256	1.05
2437MHz_TX	Pass	AV	7.31116G	45.79	54.00	-8.21	3	Horizontal	360	1.71
2437MHz_TX	Pass	PK	4.87328G	53.22	74.00	-20.78	3	Horizontal	256	1.05
2437MHz_TX	Pass	PK	7.31104G	60.08	74.00	-13.92	3	Horizontal	360	1.71
2457MHz_TX	Pass	AV	2.4576G	96.68	Inf	-Inf	3	Vertical	98	1.00
2457MHz_TX	Pass	AV	2.4836G	49.12	54.00	-4.88	3	Vertical	98	1.00
2457MHz_TX	Pass	PK	2.458G	106.49	Inf	-Inf	3	Vertical	98	1.00
2457MHz_TX	Pass	PK	2.4838G	65.55	74.00	-8.45	3	Vertical	98	1.00
2457MHz_TX	Pass	AV	2.4578G	99.58	Inf	-Inf	3	Horizontal	265	2.11
2457MHz_TX	Pass	AV	2.4835G	49.86	54.00	-4.14	3	Horizontal	265	2.11
2457MHz_TX	Pass	PK	2.4578G	109.40	Inf	-Inf	3	Horizontal	265	2.11
2457MHz_TX	Pass	PK	2.4836G	66.86	74.00	-7.14	3	Horizontal	265	2.11
2462MHz_TX	Pass	AV	2.4614G	95.08	Inf	-Inf	3	Vertical	97	1.04
2462MHz_TX	Pass	AV	2.4835G	50.60	54.00	-3.40	3	Vertical	97	1.04
2462MHz_TX	Pass	PK	2.463G	104.86	Inf	-Inf	3	Vertical	97	1.04
2462MHz_TX	Pass	PK	2.4835G	70.63	74.00	-3.37	3	Vertical	97	1.04
2462MHz_TX	Pass	AV	2.4628G	99.07	Inf	-Inf	3	Horizontal	89	2.15
2462MHz_TX	Pass	AV	2.4835G	52.45	54.00	-1.55	3	Horizontal	89	2.15
2462MHz_TX	Pass	PK	2.463G	108.82	Inf	-Inf	3	Horizontal	89	2.15
2462MHz_TX	Pass	PK	2.4835G	73.40	74.00	-0.60	3	Horizontal	89	2.15
2462MHz_TX	Pass	AV	4.92532G	38.23	54.00	-15.77	3	Vertical	183	1.04
2462MHz_TX	Pass	AV	7.3862G	42.88	54.00	-11.12	3	Vertical	260	1.96
2462MHz_TX	Pass	PK	4.92336G	52.65	74.00	-21.35	3	Vertical	183	1.04
2462MHz_TX	Pass	PK	7.38612G	57.90	74.00	-16.10	3	Vertical	260	1.96
2462MHz_TX	Pass	AV	4.92556G	38.46	54.00	-15.54	3	Horizontal	257	1.05
2462MHz_TX	Pass	AV	7.38652G	44.13	54.00	-9.87	3	Horizontal	360	1.90
2462MHz_TX	Pass	PK	4.92304G	52.96	74.00	-21.04	3	Horizontal	257	1.05
2462MHz_TX	Pass	PK	7.38336G	59.13	74.00	-14.87	3	Horizontal	360	1.90
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2412MHz_TX	Pass	AV	2.39G	50.59	54.00	-3.41	3	Vertical	147	2.90
2412MHz_TX	Pass	AV	2.4128G	97.82	Inf	-Inf	3	Vertical	147	2.90
2412MHz_TX	Pass	PK	2.39G	67.86	74.00	-6.14	3	Vertical	147	2.90
2412MHz_TX	Pass	PK	2.412G	108.12	Inf	-Inf	3	Vertical	147	2.90
2412MHz_TX	Pass	AV	2.39G	52.76	54.00	-1.24	3	Horizontal	268	2.56
2412MHz_TX	Pass	AV	2.4128G	100.62	Inf	-Inf	3	Horizontal	268	2.56
2412MHz_TX	Pass	PK	2.387G	69.55	74.00	-4.45	3	Horizontal	268	2.56
2412MHz_TX	Pass	PK	2.412G	110.77	Inf	-Inf	3	Horizontal	268	2.56
2412MHz_TX	Pass	AV	4.8242G	37.31	54.00	-16.69	3	Vertical	184	1.01
2412MHz_TX	Pass	PK	4.8264G	52.12	74.00	-21.88	3	Vertical	184	1.01
2412MHz_TX	Pass	AV	4.82396G	35.72	54.00	-18.28	3	Horizontal	256	1.50
2412MHz_TX	Pass	PK	4.82652G	49.66	74.00	-24.34	3	Horizontal	256	1.50
2417MHz_TX	Pass	AV	2.39G	48.27	54.00	-5.73	3	Vertical	148	2.91
2417MHz_TX	Pass	AV	2.4158G	98.50	Inf	-Inf	3	Vertical	148	2.91
2417MHz_TX	Pass	PK	2.3894G	65.60	74.00	-8.40	3	Vertical	148	2.91
2417MHz_TX	Pass	PK	2.417G	108.80	Inf	-Inf	3	Vertical	148	2.91
2417MHz_TX	Pass	AV	2.39G	49.85	54.00	-4.15	3	Horizontal	269	2.57
2417MHz_TX	Pass	AV	2.4176G	101.37	Inf	-Inf	3	Horizontal	269	2.57
2417MHz_TX	Pass	PK	2.3894G	68.26	74.00	-5.74	3	Horizontal	269	2.57
2417MHz_TX	Pass	PK	2.417G	111.79	Inf	-Inf	3	Horizontal	269	2.57
2437MHz_TX	Pass	AV	2.389G	45.67	54.00	-8.33	3	Vertical	98	1.13
2437MHz_TX	Pass	AV	2.4382G	96.14	Inf	-Inf	3	Vertical	98	1.13
2437MHz_TX	Pass	AV	2.491G	46.52	54.00	-7.48	3	Vertical	98	1.13
2437MHz_TX	Pass	PK	2.3402G	58.31	74.00	-15.69	3	Vertical	98	1.13
2437MHz_TX	Pass	PK	2.437G	106.30	Inf	-Inf	3	Vertical	98	1.13
2437MHz_TX	Pass	PK	2.489G	59.37	74.00	-14.63	3	Vertical	98	1.13
2437MHz_TX	Pass	AV	2.3898G	45.40	54.00	-8.60	3	Horizontal	82	1.99
2437MHz_TX	Pass	AV	2.4378G	99.95	Inf	-Inf	3	Horizontal	82	1.99
2437MHz_TX	Pass	AV	2.4978G	46.32	54.00	-7.68	3	Horizontal	82	1.99
2437MHz_TX	Pass	PK	2.373G	59.71	74.00	-14.29	3	Horizontal	82	1.99
2437MHz_TX	Pass	PK	2.437G	110.22	Inf	-Inf	3	Horizontal	82	1.99
2437MHz_TX	Pass	PK	2.4898G	58.98	74.00	-15.02	3	Horizontal	82	1.99
2437MHz_TX	Pass	AV	4.87388G	39.14	54.00	-14.86	3	Vertical	184	1.01
2437MHz_TX	Pass	AV	7.31176G	44.80	54.00	-9.20	3	Vertical	216	1.01
2437MHz_TX	Pass	PK	4.87672G	53.18	74.00	-20.82	3	Vertical	184	1.01
2437MHz_TX	Pass	PK	7.31004G	59.45	74.00	-14.55	3	Vertical	216	1.01
2437MHz_TX	Pass	AV	4.87396G	38.75	54.00	-15.25	3	Horizontal	259	1.05
2437MHz_TX	Pass	AV	7.31172G	45.45	54.00	-8.55	3	Horizontal	0	1.50
2437MHz_TX	Pass	PK	4.87516G	52.65	74.00	-21.35	3	Horizontal	259	1.05
2437MHz_TX	Pass	PK	7.30992G	59.23	74.00	-14.77	3	Horizontal	0	1.50
2457MHz_TX	Pass	AV	2.4578G	96.79	Inf	-Inf	3	Vertical	97	1.00
2457MHz_TX	Pass	AV	2.4835G	49.80	54.00	-4.20	3	Vertical	97	1.00
2457MHz_TX	Pass	PK	2.457G	107.00	Inf	-Inf	3	Vertical	97	1.00
2457MHz_TX	Pass	PK	2.4852G	66.79	74.00	-7.21	3	Vertical	97	1.00
2457MHz_TX	Pass	AV	2.4578G	102.50	Inf	-Inf	3	Horizontal	88	2.48
2457MHz_TX	Pass	AV	2.4835G	53.47	54.00	-0.53	3	Horizontal	88	2.48
2457MHz_TX	Pass	PK	2.4568G	112.48	Inf	-Inf	3	Horizontal	88	2.48
2457MHz_TX	Pass	PK	2.4835G	71.43	74.00	-2.57	3	Horizontal	88	2.48
2462MHz_TX	Pass	AV	2.4626G	96.14	Inf	-Inf	3	Vertical	98	1.05
2462MHz_TX	Pass	AV	2.4836G	52.60	54.00	-1.40	3	Vertical	98	1.05
2462MHz_TX	Pass	PK	2.462G	106.69	Inf	-Inf	3	Vertical	98	1.05
2462MHz_TX	Pass	PK	2.4835G	71.89	74.00	-2.11	3	Vertical	98	1.05
2462MHz_TX	Pass	AV	2.4626G	98.64	Inf	-Inf	3	Horizontal	278	1.55
2462MHz_TX	Pass	AV	2.4835G	51.53	54.00	-2.47	3	Horizontal	278	1.55
2462MHz_TX	Pass	PK	2.462G	109.09	Inf	-Inf	3	Horizontal	278	1.55
2462MHz_TX	Pass	PK	2.4835G	70.78	74.00	-3.22	3	Horizontal	278	1.55
2462MHz_TX	Pass	AV	4.92404G	39.11	54.00	-14.89	3	Vertical	188	1.20
2462MHz_TX	Pass	AV	7.38752G	45.22	54.00	-8.78	3	Vertical	106	2.03
2462MHz_TX	Pass	PK	4.925G	53.03	74.00	-20.97	3	Vertical	188	1.20
2462MHz_TX	Pass	PK	7.38492G	59.27	74.00	-14.73	3	Vertical	106	2.03
2462MHz_TX	Pass	AV	4.92408G	38.11	54.00	-15.89	3	Horizontal	258	1.11
2462MHz_TX	Pass	AV	7.38672G	44.93	54.00	-9.07	3	Horizontal	355	1.90



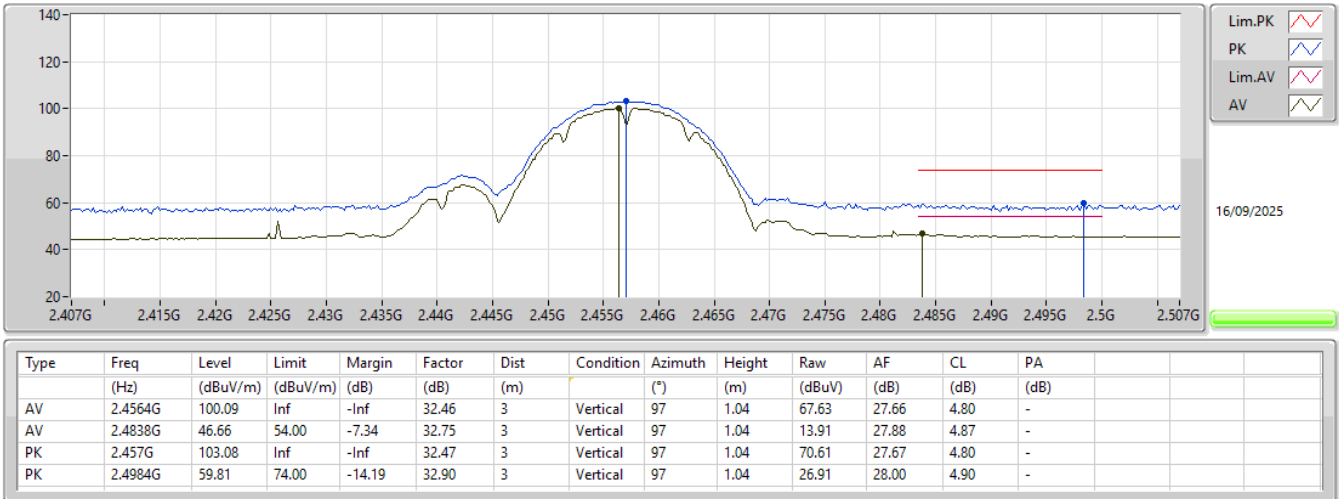
RSE TX above 1GHz

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2462MHz_TX	Pass	PK	4.92512G	51.23	74.00	-22.77	3	Horizontal	258	1.11
2462MHz_TX	Pass	PK	7.38508G	59.13	74.00	-14.87	3	Horizontal	355	1.90

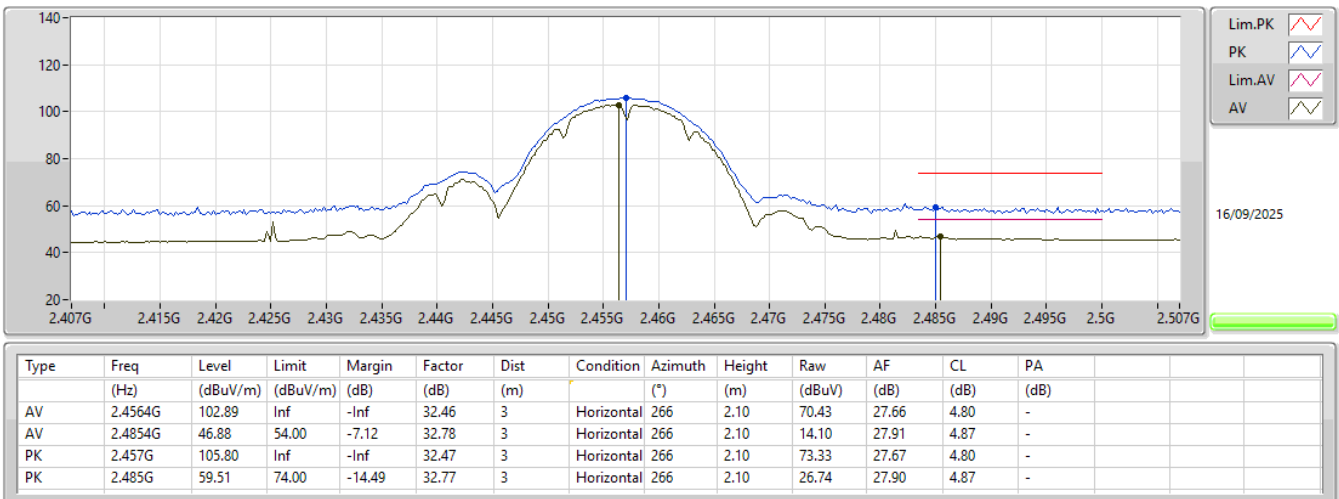
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX



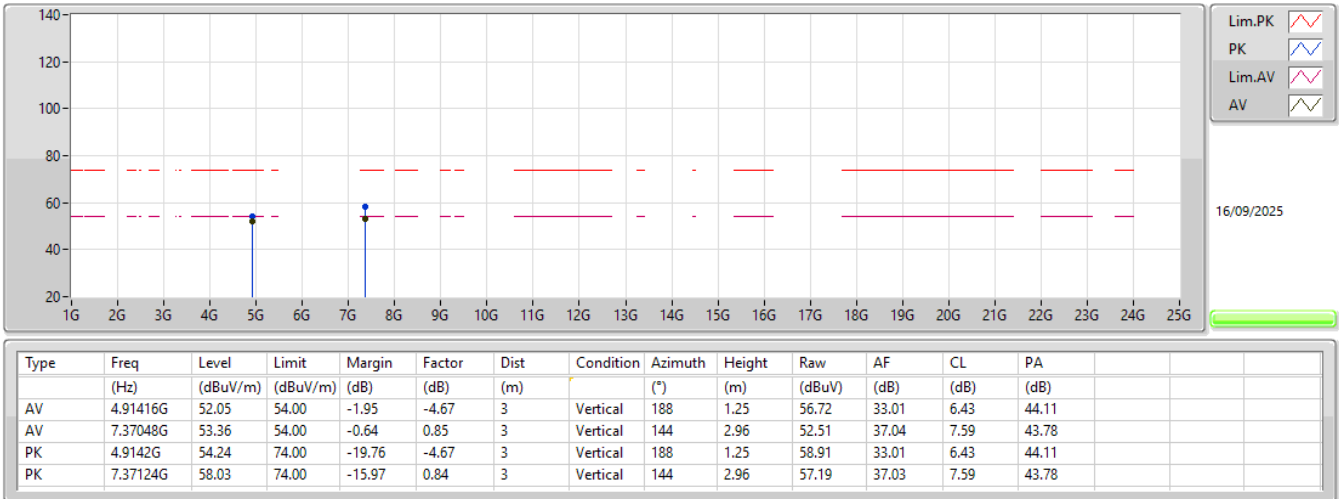
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX



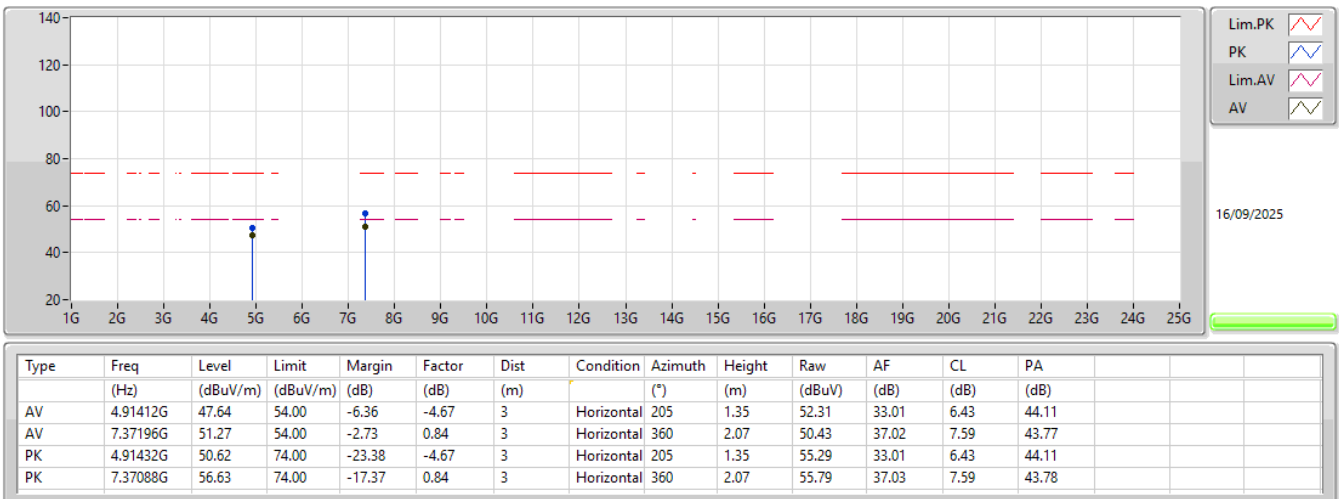
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX



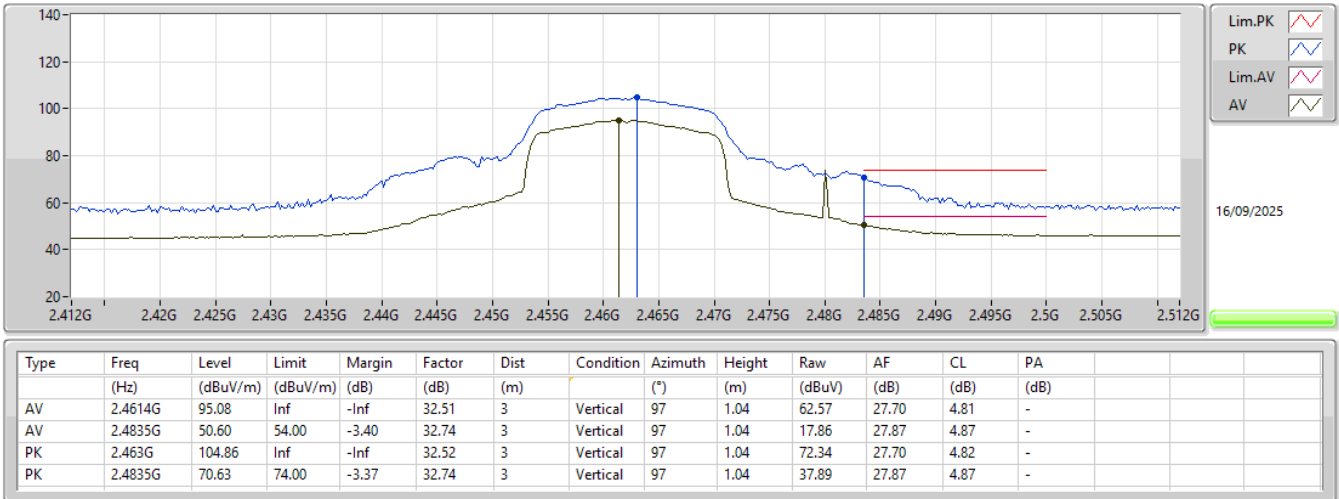
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX



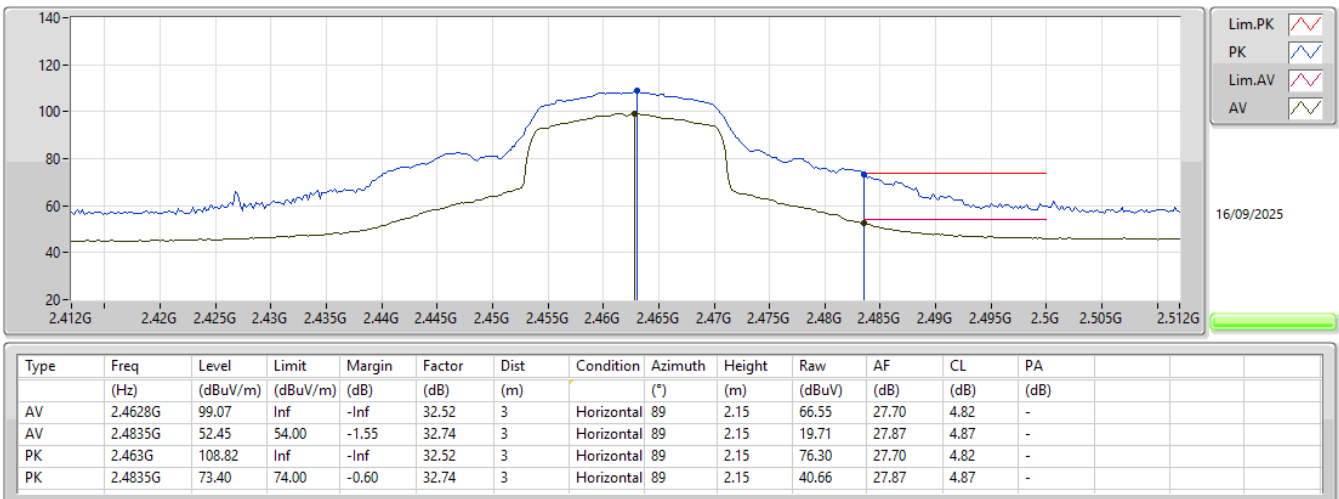
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



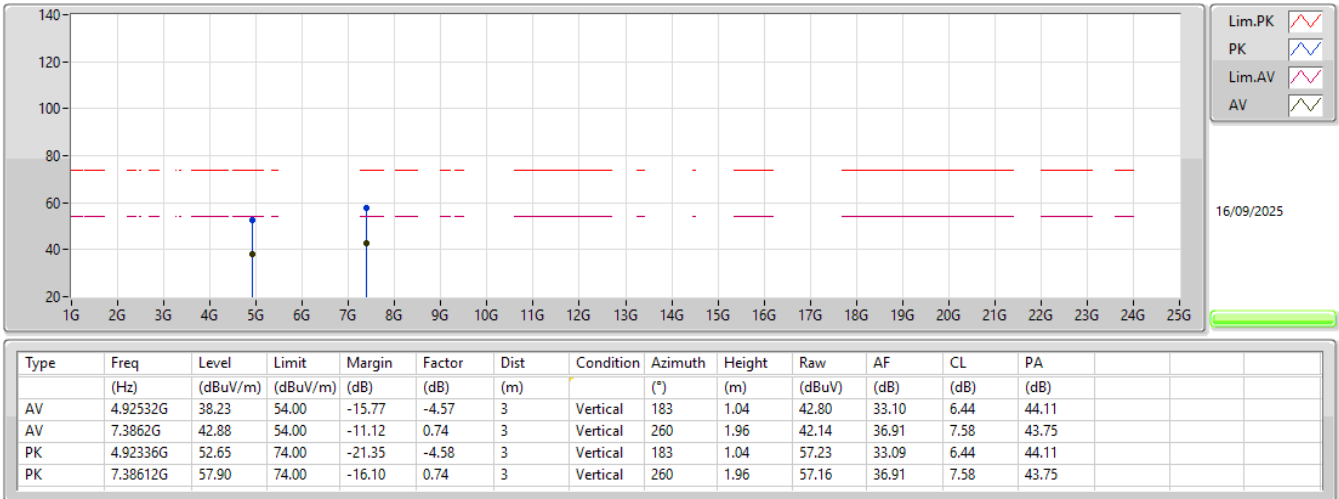
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



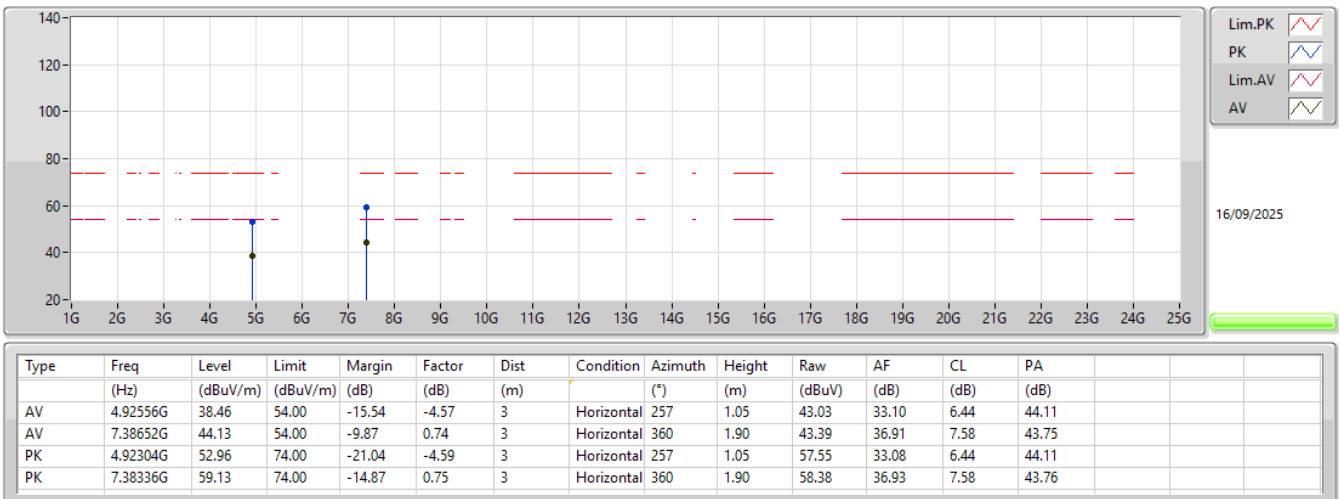
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



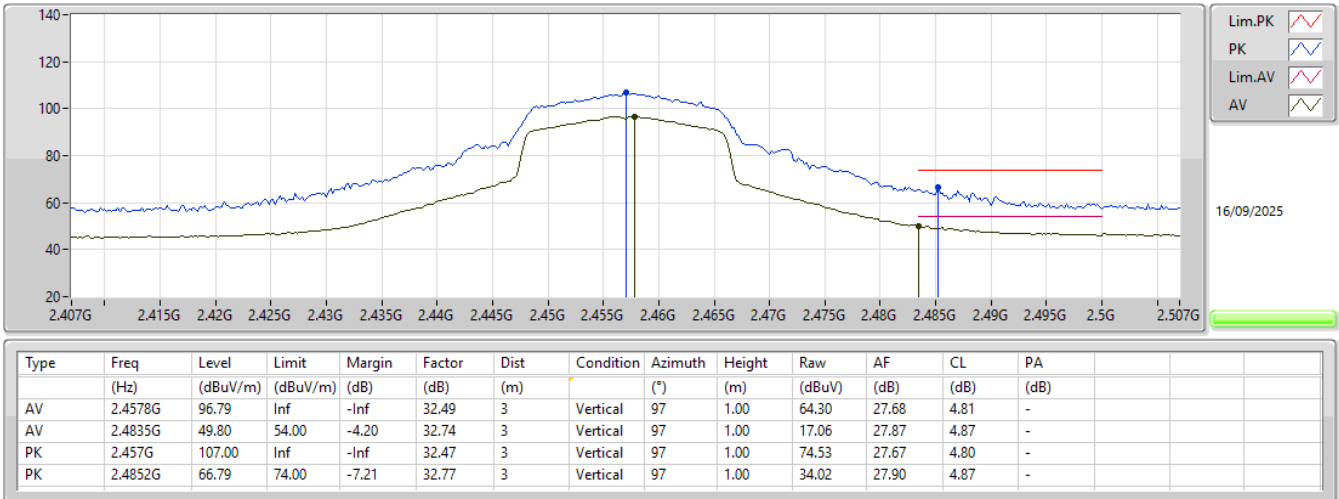
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



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

2457MHz_TX



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

2457MHz_TX

