FCC Radio Test Report

FCC ID	:	**VUI-M2U350**
Equipment	:	**5G FR2 ODU**
Brand Name	:	**PEGATRON**
Model Name	:	**M2U350,M2U300, M2UXXX-XXX(where X can be a combination of alphanumeric, none or blank)**
Applicant	:	**PEGATRON CORPORATION 5F., No.76, LIGONG ST., BEITOU DISTRICT, TAIPEI CITY, Taiwan, 11259**
Manufacturer	:	**PEGATRON CORPORATION 5F., No.76, LIGONG ST., BEITOU DISTRICT, TAIPEI CITY, Taiwan, 11259**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Jul. 04, 2024, and testing was started from Jul. 10, 2024 and completed on Aug. 02, 2024. 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 C63.10-2013 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.

Jackson Tsai

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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PHOTOGRAPHS OF EUT V01

History of this test report

Report No.	Version	Description	Issued Date
FR470412AC	01	Initial issue of report	Sep. 03, 2024

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: Ann Hou

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	INPAQ	WA-P-LA-11-004(1415-0AQ4000)	PIFA	I-PEX

Ant.	Port	2.4G/BT Gain (dBi)						
		2300 MHz	2350 MHz	2400 MHz	2450 MHz	2500 MHz	2550 MHz	2600 MHz
1	1	3.83	3.19	2.84	4.45	4.46	4.81	4.73

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 PoE			
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	0.994	0.03	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g_Nss1,(6Mbps)_1TX	0.95	0.22	2.065m	1k
802.11n HT20_Nss1,(MCS0)_1TX	0.951	0.22	1.921m	1k
802.11n HT40_Nss1,(MCS0)_1TX	0.889	0.51	945u	3k

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

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
M2U350	All the models are identical, the different model served as marketing strategy.
M2U300	
M2UXXX-XXX(where X can be a combination of alphanumeric, none or blank)	

From the above models, model: M2U350 was selected as representative model for the test and its data was recorded in this report.

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 C63.10-2013

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	22.2~22.9°C / 52~57%	02/Aug/2024
RF Conducted	TH01-HY	Johnny Yu	23.4~23.9°C / 53~55%	12/Jul/2024
☒ 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 below 1G	03CH25-HY	Daniel Lin	23.0~25.0°C / 53~57%	31/Jul/2024
Radiated above 1G	03CH24-HY	Daniel Lin	21.2~22.8°C / 52~58%	10/Jul/2024~11Jul/2024

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	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	Dos V6.1

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	37
2417MHz	38
2437MHz	37
2457MHz	36
2462MHz	38
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	45
2417MHz	51
2437MHz	52
2457MHz	51
2462MHz	46
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	46
2417MHz	46
2437MHz	45
2457MHz	45
2462MHz	45
802.11n HT40_Nss1,(MCS0)_1TX	-
2422MHz	45
2437MHz	45
2447MHz	42
2452MHz	42

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

2.3 Accessories

Accessories				
PoE injector	Brand Name	RISUNIC	Model Name	RP029-5601080YX
	Power Rating	I/P: 100- 240Vac, 1.5 A, O/P: 56Vdc, 1.08 A, 60.48W		
AC power cord	Brand Name	HONGLIN	Model Name	200-18511
	Power Cord	0.6m cable		
Bottom port cover with flat Ethernet cable	Brand Name	TUNG-LI	Model Name	CT041-046
RJ45 ethernet cable	Brand Name	TUNG-LI	Model Name	6F424-003

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

2.4 Support Equipment

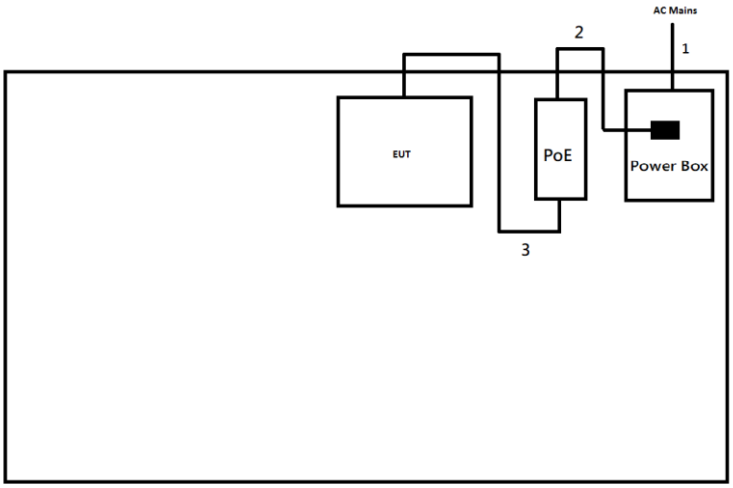
Support Equipment – AC Conduction					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	AC power cable	Power Sync	-	-	-

Support Equipment – Conducted					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	AC power cable	Power Sync	-	-	-

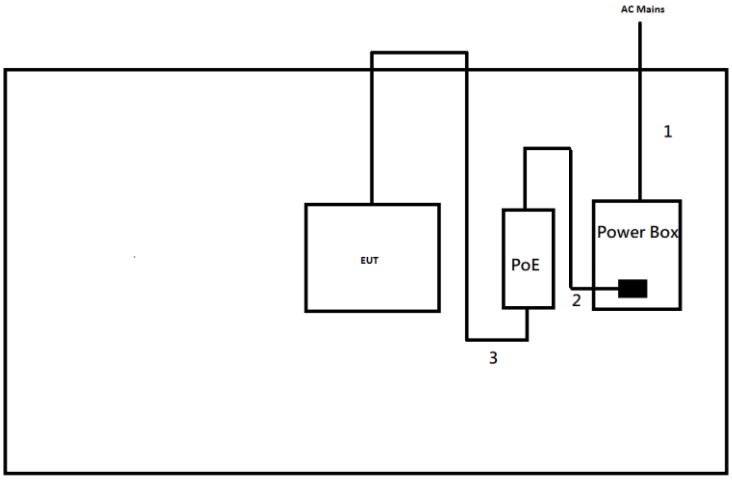
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)
1	AC power cable	No	1.0
2	AC power cable	No	0.6
3	RJ45 Cable	No	2.0

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)
1	AC power cable	No	1.8
2	AC power cable	No	0.6
3	RJ45 Cable	No	2.0

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

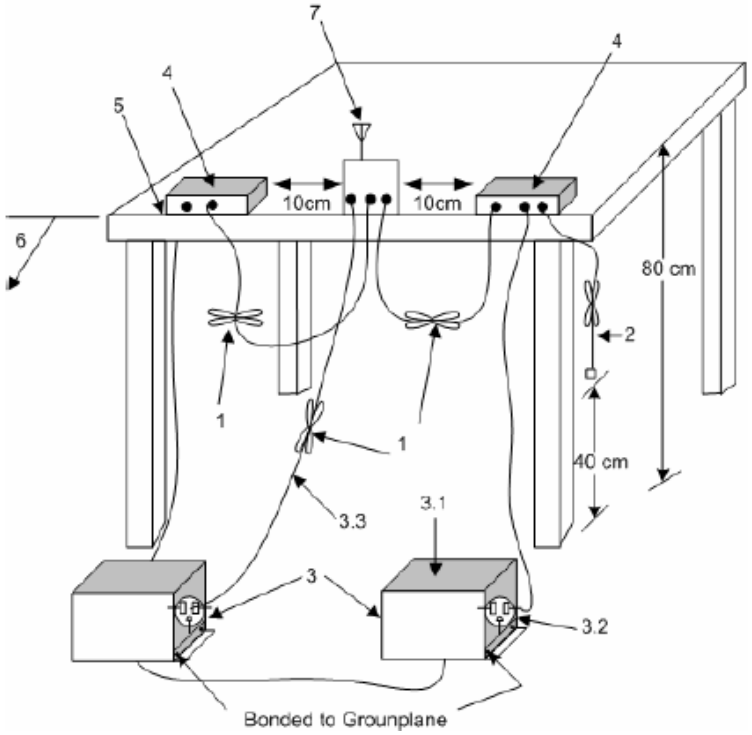
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

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 ≥ 500 kHz.

3.2.2 Measuring Instruments

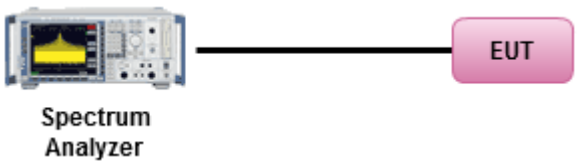
Refer a test equipment and calibration data table in this test report.

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

Emission Bandwidth



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): $P_{eirp} \leq MAX(36, [P_{Out} + G_{TX}])$ dBm	
	▪ Smart antenna system (SAS)	
		- Single beam: $P_{eirp} \leq MAX(36, P_{Out} + G_{TX})$ dBm
		- Overlap beam: $P_{eirp} \leq MAX(36, P_{Out} + G_{TX})$ dBm
		- Aggregate power on all beams: $P_{eirp} \leq MAX(36, [P_{Out} + G_{TX} + 8])$ 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 (11.9.1.2 of ANSI C63.10) integrated band power method.
	☒ Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)

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

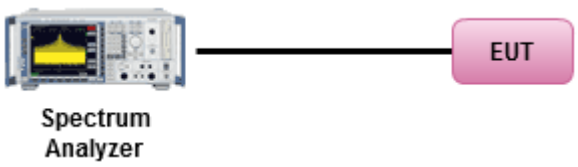
Refer a test equipment and calibration data table in this test report.

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

Power Spectral Density



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

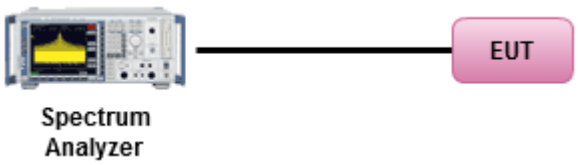
Refer a test equipment and calibration data table in this test report.

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

Emissions in Non-restricted Frequency Bands



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 ≥ 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 ≥ 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.

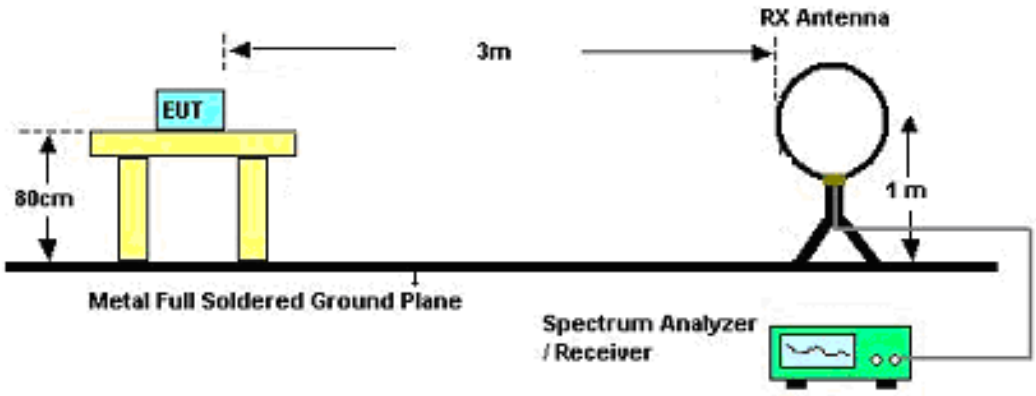
3.6.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

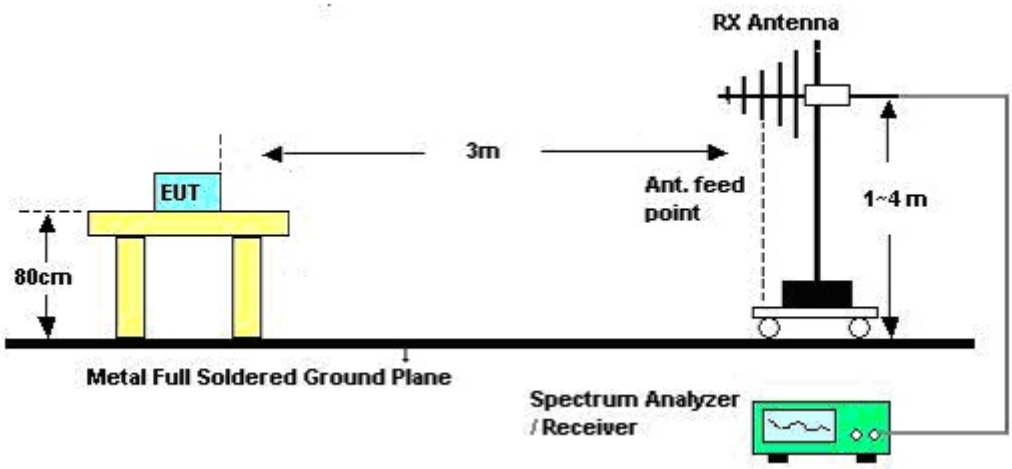
3.6.5 Test Setup

Emissions in Restricted Frequency Bands

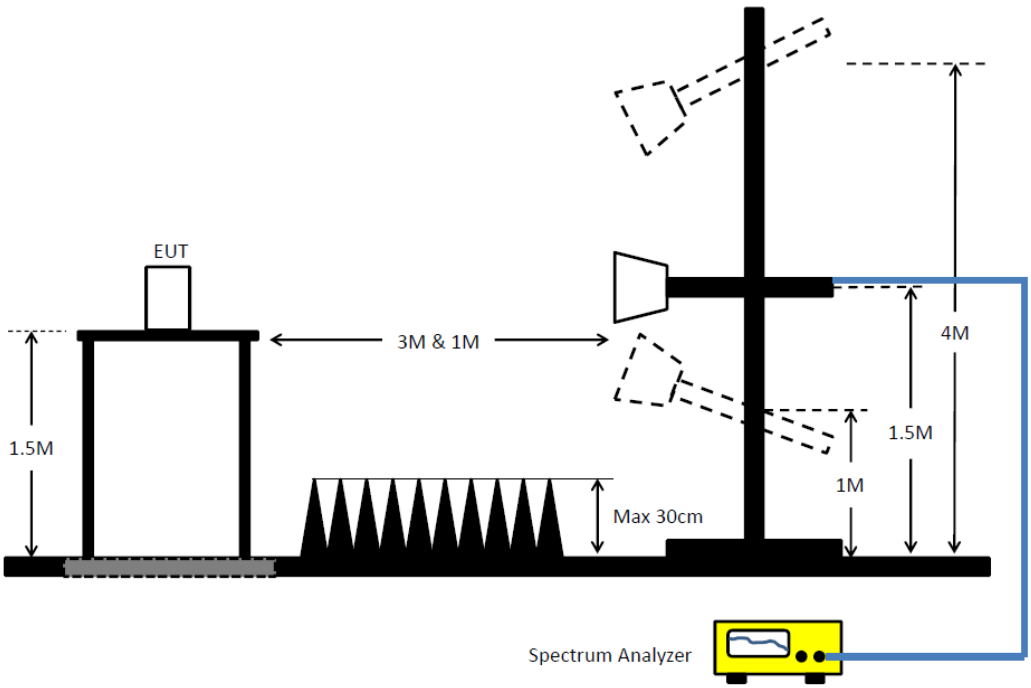
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



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	17/May/2024	16/May/2025
Artificial-Mains Network	SCHWARZBECK	NSLK 8128 RC	05135	9kHz ~ 30MHz	11/Sep/2023	10/Sep/2024
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	27/Feb/2024	26/Feb/2025
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	18/Oct/2023	17/Oct/2024
Software	Sporton	SENSE-EMI	V5.11.3	-	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	30/Oct/2023	29/Oct/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	20/Oct/2023	19/Oct/2024
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	01/Apr/2024	31/Mar/2025
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	02/Apr/2024	01/Apr/2025
SENSE-15247_DTS	Sporton	V5.11.18	N/A	N/A	N/A	N/A

Instrument for Radiated Test (03CH25-HY)

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	03/Aug/2023	02/Aug/2024
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	27/Dec/2023	26/Dec/2024
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101410	10Hz~44GHz	17/Nov/2023	16/Nov/2024
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63537/001	30MHz~1GHz	30/May/2024	29/May/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	9kHz~1GHz	24/Apr/2024	23/Apr/2025
Preamplifier	SGH	PRAMP 903	20230515-1	25MHz~3GHz	24/May/2024	23/May/2025
SENSE-15247-DTS	Sporton	V5.11.18	NA	NA	NA	NA

Instrument for Radiated Test (03CH24-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3m	03/Aug/2023	02/Aug/2024
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101345	10Hz~44GHz	10/Aug/2023	09/Aug/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz~18GHz	17/Aug/2023	16/Aug/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	21/Aug/2023	20/Aug/2024
RF Cable	HUBER+SUHNER	SUOFLEX 102	CB002	1GHz~40GHz	19/Jun/2024	18/Jun/2025
Amplifier	EM	EM01G18G	060870	1GHz ~18GHz	10/Aug/2023	09/Aug/2024
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	19/Apr/2024	18/Apr/2025
Amplifier	EM	EM18G40GA	060874	18GHz ~40GHz	18/Aug/2023	17/Aug/2024
SENSE-15247-DTS	Sporton	V5.11.18	NA	NA	NA	NA

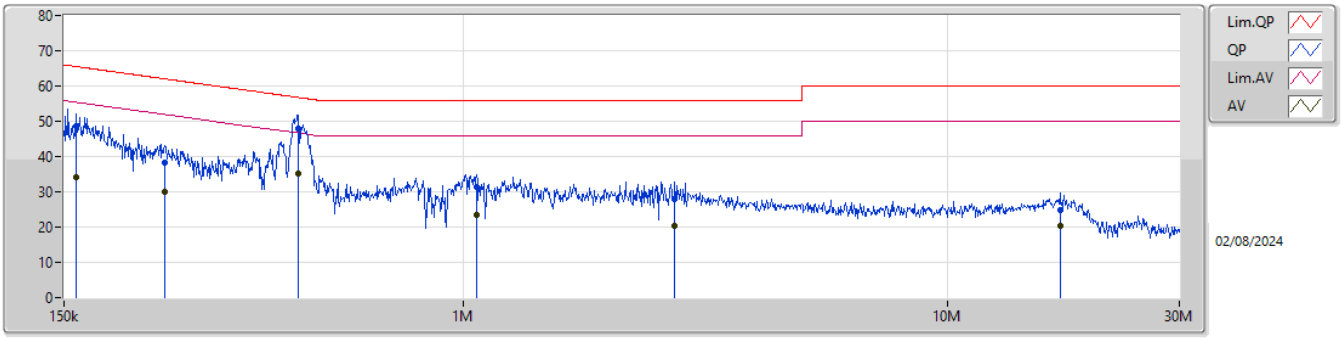
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	456.875k	47.84	56.75	-8.91	Line

Result

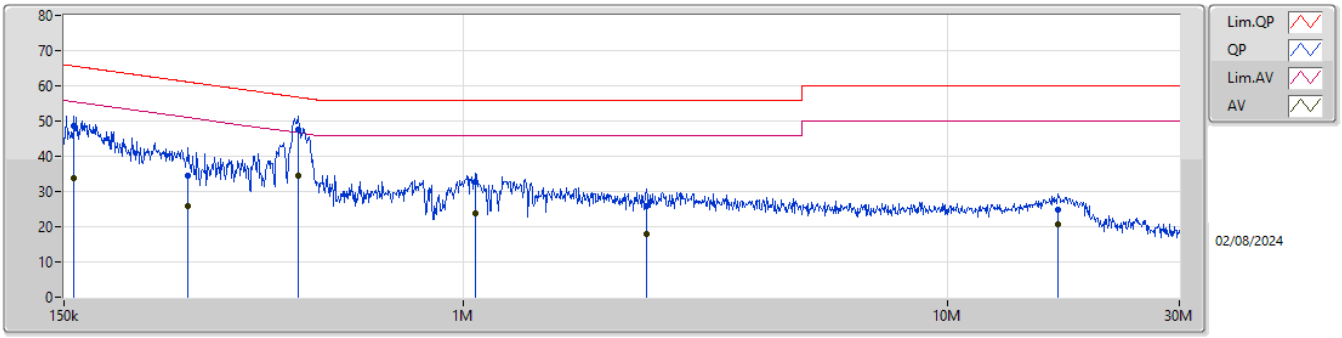
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	158.622k	48.63	65.54	-16.91	Line	-
Mode 1	Pass	AV	158.622k	34.23	55.54	-21.31	Line	-
Mode 1	Pass	QP	242.179k	38.33	62.02	-23.69	Line	-
Mode 1	Pass	AV	242.179k	29.96	52.02	-22.06	Line	-
Mode 1	Pass	QP	456.875k	47.84	56.75	-8.91	Line	-
Mode 1	Pass	AV	456.875k	35.12	46.75	-11.63	Line	-
Mode 1	Pass	QP	1.065M	31.53	56.00	-24.47	Line	-
Mode 1	Pass	AV	1.065M	23.42	46.00	-22.58	Line	-
Mode 1	Pass	QP	2.732M	27.97	56.00	-28.03	Line	-
Mode 1	Pass	AV	2.732M	20.19	46.00	-25.81	Line	-
Mode 1	Pass	QP	17.004M	24.75	60.00	-35.25	Line	-
Mode 1	Pass	AV	17.004M	20.37	50.00	-29.63	Line	-
Mode 1	Pass	QP	157.361k	48.51	65.60	-17.09	Neutral	-
Mode 1	Pass	AV	157.361k	33.85	55.60	-21.75	Neutral	-
Mode 1	Pass	QP	270.82k	34.59	61.09	-26.50	Neutral	-
Mode 1	Pass	AV	270.82k	25.72	51.09	-25.37	Neutral	-
Mode 1	Pass	QP	456.875k	47.47	56.75	-9.28	Neutral	-
Mode 1	Pass	AV	456.875k	34.64	46.75	-12.11	Neutral	-
Mode 1	Pass	QP	1.061M	32.71	56.00	-23.29	Neutral	-
Mode 1	Pass	AV	1.061M	23.83	46.00	-22.17	Neutral	-
Mode 1	Pass	QP	2.385M	25.78	56.00	-30.22	Neutral	-
Mode 1	Pass	AV	2.385M	17.85	46.00	-28.15	Neutral	-
Mode 1	Pass	QP	16.868M	24.88	60.00	-35.12	Neutral	-
Mode 1	Pass	AV	16.868M	20.68	50.00	-29.32	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	158.622k	48.63	65.54	-16.91	9.86	Line	-	38.77	0.05	0.07	9.74
AV	158.622k	34.23	55.54	-21.31	9.86	Line	-	24.37	0.05	0.07	9.74
QP	242.179k	38.33	62.02	-23.69	9.85	Line	-	28.48	0.05	0.10	9.70
AV	242.179k	29.96	52.02	-22.06	9.85	Line	-	20.11	0.05	0.10	9.70
QP	456.875k	47.84	56.75	-8.91	9.94	Line	-	37.90	0.05	0.12	9.77
AV	456.875k	35.12	46.75	-11.63	9.94	Line	-	25.18	0.05	0.12	9.77
QP	1.065M	31.53	56.00	-24.47	9.95	Line	-	21.58	0.06	0.09	9.80
AV	1.065M	23.42	46.00	-22.58	9.95	Line	-	13.47	0.06	0.09	9.80
QP	2.732M	27.97	56.00	-28.03	9.99	Line	-	17.98	0.10	0.09	9.80
AV	2.732M	20.19	46.00	-25.81	9.99	Line	-	10.20	0.10	0.09	9.80
QP	17.004M	24.75	60.00	-35.25	10.07	Line	-	14.68	0.14	0.10	9.83
AV	17.004M	20.37	50.00	-29.63	10.07	Line	-	10.30	0.14	0.10	9.83

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	157.361k	48.51	65.60	-17.09	9.87	Neutral	-	38.64	0.05	0.07	9.75
AV	157.361k	33.85	55.60	-21.75	9.87	Neutral	-	23.98	0.05	0.07	9.75
QP	270.82k	34.59	61.09	-26.50	9.86	Neutral	-	24.73	0.04	0.10	9.72
AV	270.82k	25.72	51.09	-25.37	9.86	Neutral	-	15.86	0.04	0.10	9.72
QP	456.875k	47.47	56.75	-9.28	9.94	Neutral	-	37.53	0.05	0.12	9.77
AV	456.875k	34.64	46.75	-12.11	9.94	Neutral	-	24.70	0.05	0.12	9.77
QP	1.061M	32.71	56.00	-23.29	9.95	Neutral	-	22.76	0.06	0.09	9.80
AV	1.061M	23.83	46.00	-22.17	9.95	Neutral	-	13.88	0.06	0.09	9.80
QP	2.385M	25.78	56.00	-30.22	10.00	Neutral	-	15.78	0.10	0.10	9.80
AV	2.385M	17.85	46.00	-28.15	10.00	Neutral	-	7.85	0.10	0.10	9.80
QP	16.868M	24.88	60.00	-35.12	10.11	Neutral	-	14.77	0.18	0.10	9.83
AV	16.868M	20.68	50.00	-29.32	10.11	Neutral	-	10.57	0.18	0.10	9.83

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	10.025M	14.573M	14M6G1D	8.6M	14.408M
802.11g_Nss1,(6Mbps)_1TX	16.425M	21.593M	21M6D1D	15.7M	16.624M
802.11n HT20_Nss1,(MCS0)_1TX	17.7M	17.966M	18M0D1D	15.35M	17.666M
802.11n HT40_Nss1,(MCS0)_1TX	36.3M	36.032M	36M0D1D	35.3M	35.832M

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

Result

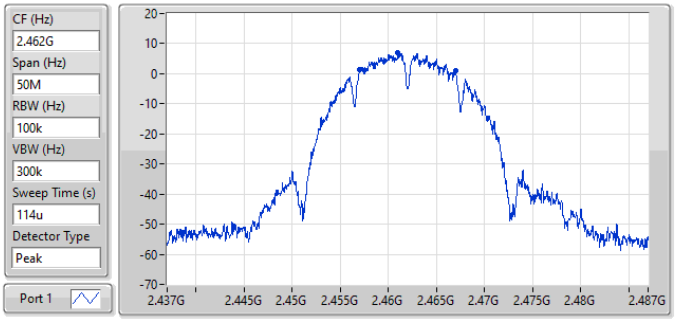
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	9.675M	14.573M
2437MHz	Pass	500k	8.6M	14.408M
2462MHz	Pass	500k	10.025M	14.558M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	15.7M	16.624M
2437MHz	Pass	500k	16.425M	21.593M
2462MHz	Pass	500k	16.35M	16.668M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	15.35M	17.666M
2437MHz	Pass	500k	17.675M	17.841M
2462MHz	Pass	500k	17.7M	17.966M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	35.3M	35.932M
2437MHz	Pass	500k	35.4M	36.032M
2452MHz	Pass	500k	36.3M	35.832M

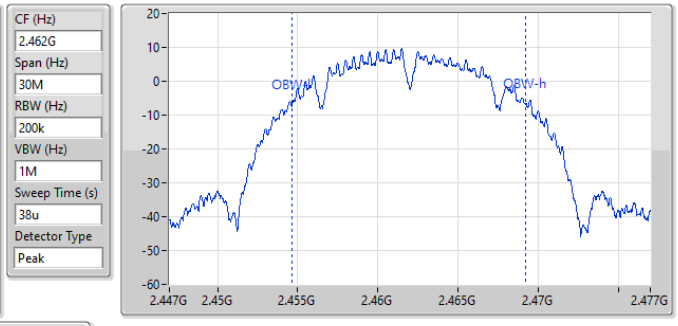
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

2462MHz

12/07/2024



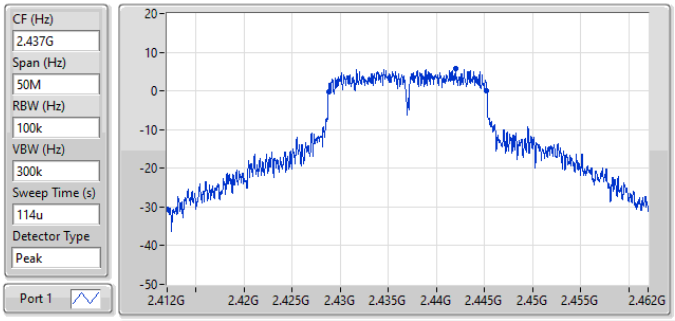


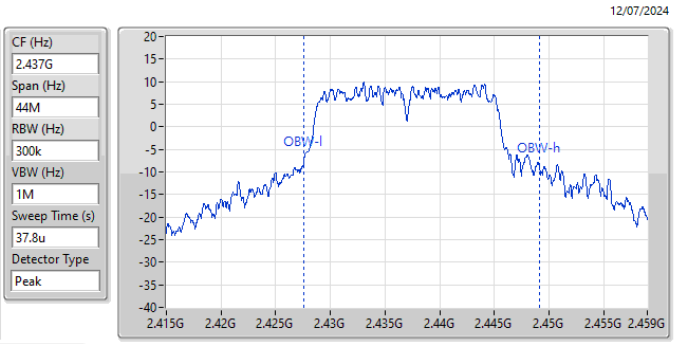
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.025M	2.456975G	2.467G	14.558M	2.454654G	2.469211G	500k	1

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

2437MHz

12/07/2024



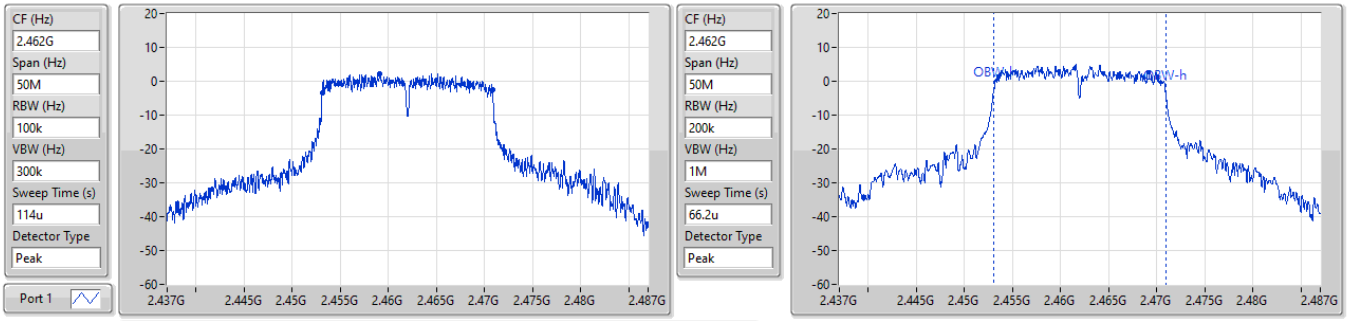


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.425M	2.4288G	2.445225G	21.593M	2.427567G	2.44916G	500k	1

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

2462MHz

12/07/2024

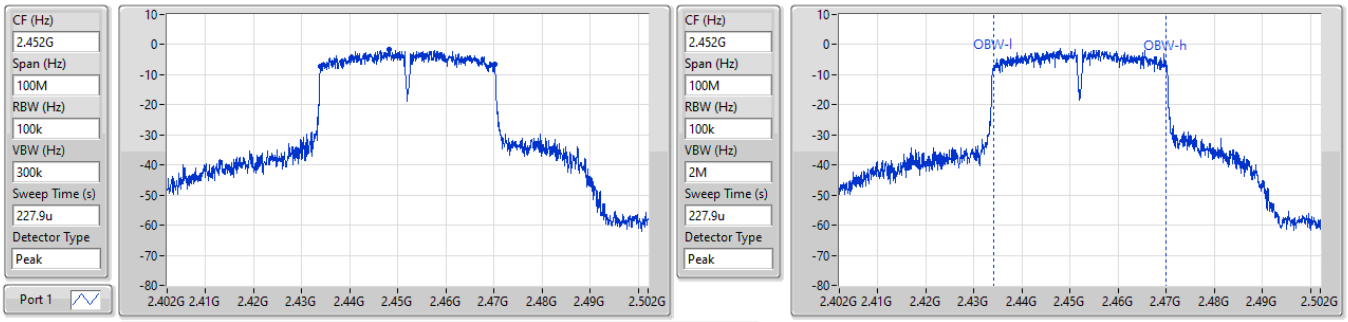


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.7M	2.4531G	2.4708G	17.966M	2.453004G	2.470971G	500k	1

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

2452MHz

12/07/2024



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	2.43385G	2.47015G	35.832M	2.434109G	2.469941G	500k	1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	20.60	0.11482
802.11g_Nss1,(6Mbps)_1TX	25.57	0.36058
802.11n HT20_Nss1,(MCS0)_1TX	25.24	0.33420
802.11n HT40_Nss1,(MCS0)_1TX	24.89	0.30832

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.84	20.01	20.01	30.00
2417MHz	Pass	2.84	20.16	20.16	30.00
2437MHz	Pass	4.45	20.04	20.04	30.00
2457MHz	Pass	4.45	19.98	19.98	30.00
2462MHz	Pass	4.45	20.60	20.60	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.84	24.67	24.67	30.00
2417MHz	Pass	2.84	25.57	25.57	30.00
2437MHz	Pass	4.45	24.80	24.80	30.00
2457MHz	Pass	4.45	25.56	25.56	30.00
2462MHz	Pass	4.45	25.14	25.14	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.84	24.97	24.97	30.00
2417MHz	Pass	2.84	25.07	25.07	30.00
2437MHz	Pass	4.45	24.61	24.61	30.00
2457MHz	Pass	4.45	25.12	25.12	30.00
2462MHz	Pass	4.45	25.24	25.24	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	2.84	24.89	24.89	30.00
2437MHz	Pass	4.45	24.58	24.58	30.00
2447MHz	Pass	4.45	24.17	24.17	30.00
2452MHz	Pass	4.45	24.40	24.40	30.00

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

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	17.88	0.06138
802.11g_Nss1,(6Mbps)_1TX	19.77	0.09484
802.11n HT20_Nss1,(MCS0)_1TX	16.91	0.04909
802.11n HT40_Nss1,(MCS0)_1TX	16.68	0.04656

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.84	17.60	17.60	30.00
2417MHz	Pass	2.84	17.88	17.88	30.00
2437MHz	Pass	4.45	17.65	17.65	30.00
2457MHz	Pass	4.45	17.65	17.65	30.00
2462MHz	Pass	4.45	17.84	17.84	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.84	16.50	16.50	30.00
2417MHz	Pass	2.84	19.06	19.06	30.00
2437MHz	Pass	4.45	19.75	19.75	30.00
2457MHz	Pass	4.45	19.77	19.77	30.00
2462MHz	Pass	4.45	17.35	17.35	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.84	16.91	16.91	30.00
2417MHz	Pass	2.84	16.74	16.74	30.00
2437MHz	Pass	4.45	16.68	16.68	30.00
2457MHz	Pass	4.45	16.70	16.70	30.00
2462MHz	Pass	4.45	16.79	16.79	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	2.84	16.27	16.27	30.00
2437MHz	Pass	4.45	16.68	16.68	30.00
2447MHz	Pass	4.45	15.44	15.44	30.00
2452MHz	Pass	4.45	15.58	15.58	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	-4.78
802.11g_Nss1,(6Mbps)_1TX	-5.68
802.11n HT20_Nss1,(MCS0)_1TX	-8.20
802.11n HT40_Nss1,(MCS0)_1TX	-11.91

RBW = 3kHz;

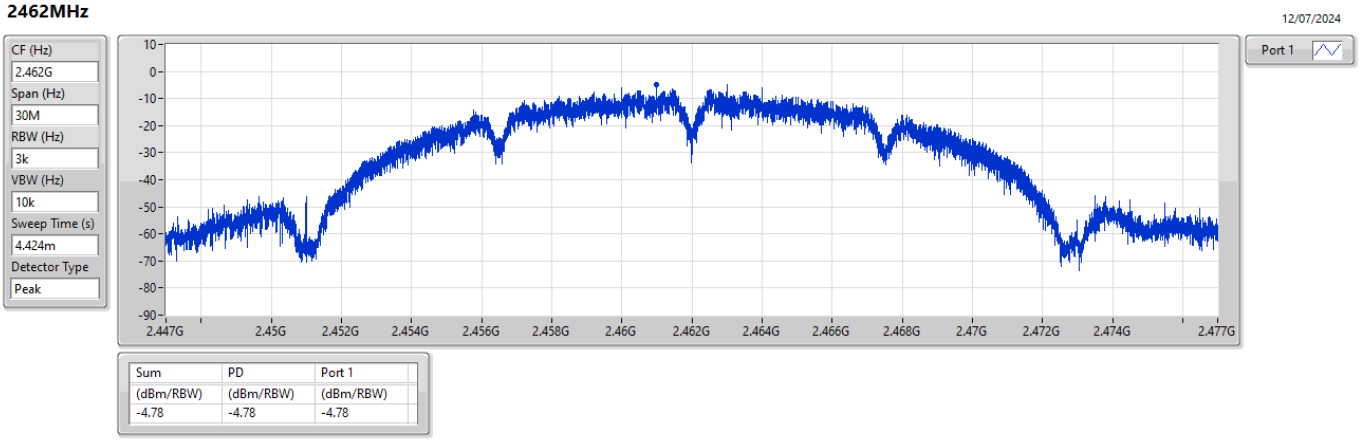
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.84	-6.62	-6.62	8.00
2437MHz	Pass	4.45	-5.33	-5.33	8.00
2462MHz	Pass	4.45	-4.78	-4.78	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.84	-9.09	-9.09	8.00
2437MHz	Pass	4.45	-5.68	-5.68	8.00
2462MHz	Pass	4.45	-6.52	-6.52	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.84	-8.69	-8.69	8.00
2437MHz	Pass	4.45	-9.28	-9.28	8.00
2462MHz	Pass	4.45	-8.20	-8.20	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	2.84	-11.91	-11.91	8.00
2437MHz	Pass	4.45	-12.27	-12.27	8.00
2452MHz	Pass	4.45	-13.25	-13.25	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.

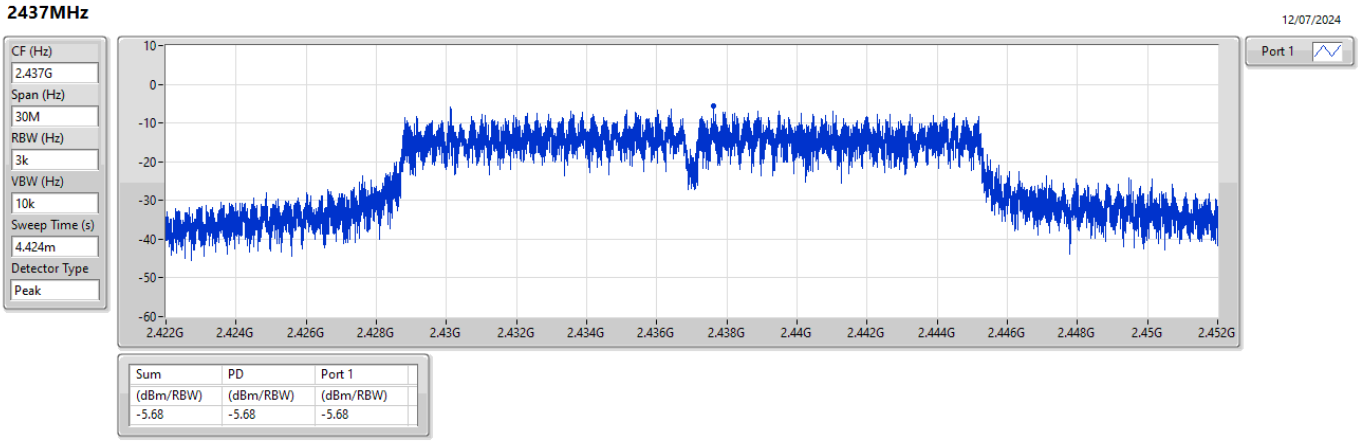
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX **PSD**

2462MHz



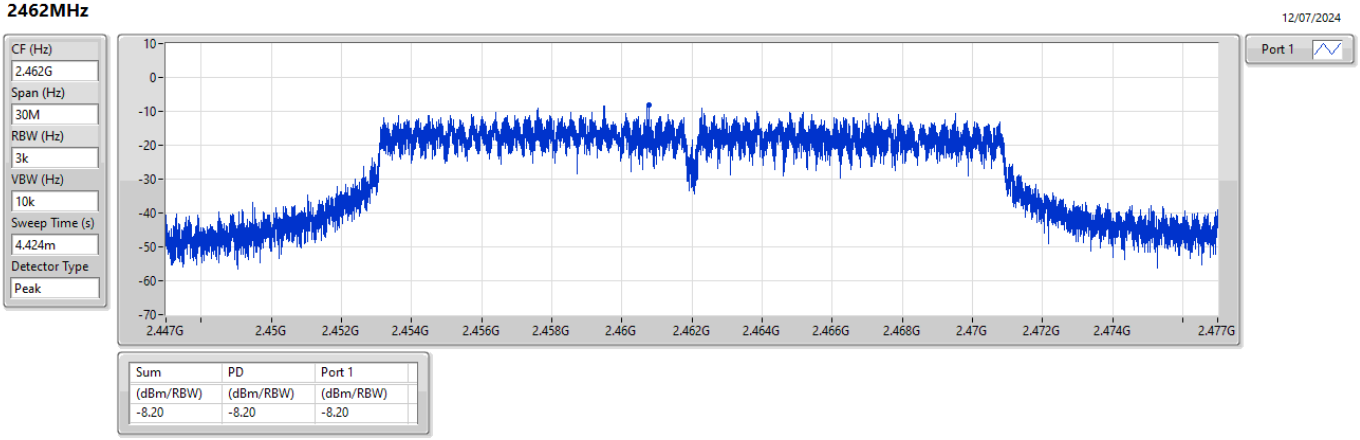
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX **PSD**

2437MHz



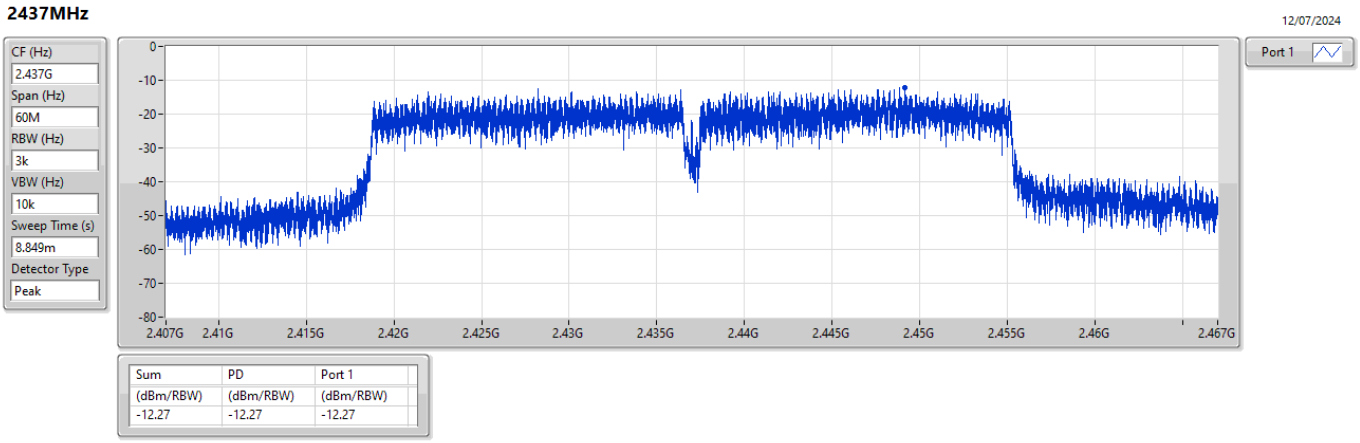
2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX **PSD**

2462MHz



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

2437MHz



Summary

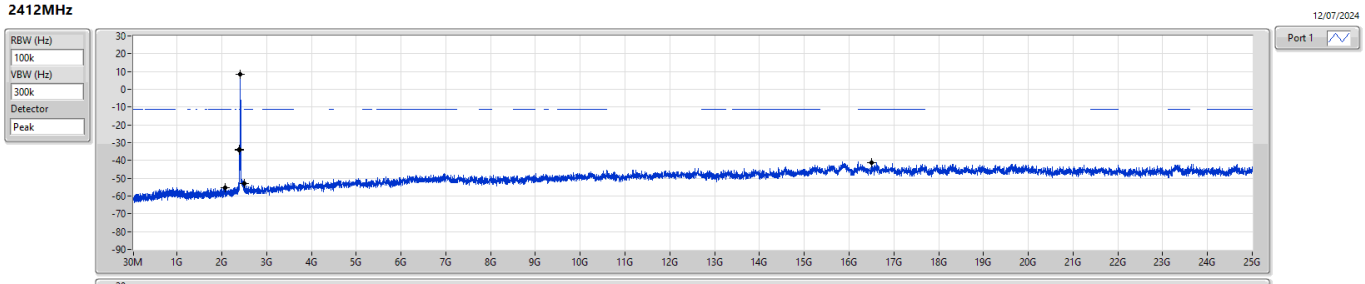
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.41253G	8.64	-11.36	2.08273G	-55.17	2.4G	-33.58	2.4G	-34.28	2.5079G	-53.14	16.50388G	-41.10	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.41436G	5.97	-14.03	875.79M	-54.97	2.39984G	-24.79	2.4G	-25.89	2.50286G	-53.21	16.90846G	-42.10	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.41436G	6.31	-13.69	809.39M	-54.92	2.39952G	-24.52	2.4G	-23.58	2.5035G	-52.76	17.60242G	-41.89	1
802.11n HT40_Nss1,(MCS0)_1TX	Pass	2.41436G	2.55	-17.45	30M	-54.49	2.39856G	-28.82	2.4G	-29.44	2.52094G	-53.59	17.22856G	-42.47	1

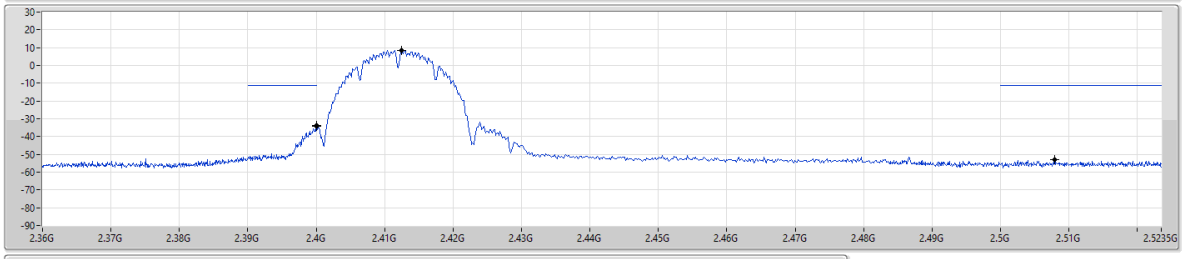
Result

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	2.41253G	8.64	-11.36	2.08273G	-55.17	2.4G	-33.58	2.4G	-34.28	2.5079G	-53.14	16.50388G	-41.10	1
2437MHz	Pass	2.43858G	8.76	-11.24	2.15147G	-55.39	2.39872G	-52.20	2.4G	-53.55	2.5147G	-53.19	16.89441G	-41.79	1
2462MHz	Pass	2.46263G	8.96	-11.04	1.99303G	-54.77	2.3988G	-52.29	2.4G	-54.26	2.50806G	-53.01	16.91127G	-40.89	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41436G	5.97	-14.03	875.79M	-54.97	2.39984G	-24.79	2.4G	-25.89	2.50286G	-53.21	16.90846G	-42.10	1
2437MHz	Pass	2.44192G	9.91	-10.09	1.97555G	-54.54	2.39984G	-34.85	2.4G	-34.85	2.51902G	-52.80	17.63895G	-41.55	1
2462MHz	Pass	2.45578G	7.04	-12.96	2.13166G	-54.67	2.39704G	-51.38	2.4G	-52.05	2.51702G	-52.67	15.28172G	-41.83	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41436G	6.31	-13.69	809.39M	-54.92	2.39952G	-24.52	2.4G	-23.58	2.5035G	-52.76	17.60242G	-41.89	1
2437MHz	Pass	2.44192G	6.26	-13.74	1.85206G	-54.33	2.4G	-43.26	2.4G	-41.87	2.5123G	-53.21	23.28617G	-41.23	1
2462MHz	Pass	2.45578G	5.80	-14.20	872.3M	-55.54	2.39792G	-51.97	2.4G	-52.15	2.50718G	-53.34	21.6201G	-41.24	1
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.41436G	2.55	-17.45	30M	-54.49	2.39856G	-28.82	2.4G	-29.44	2.52094G	-53.59	17.22856G	-42.47	1
2437MHz	Pass	2.44943G	2.96	-17.04	30M	-52.15	2.39984G	-32.76	2.4G	-34.65	2.50158G	-52.47	23.29483G	-41.43	1
2452MHz	Pass	2.45695G	2.07	-17.93	2.30512G	-55.52	2.39952G	-43.13	2.4G	-45.12	2.56206G	-53.18	16.59473G	-41.93	1

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

2412MHz

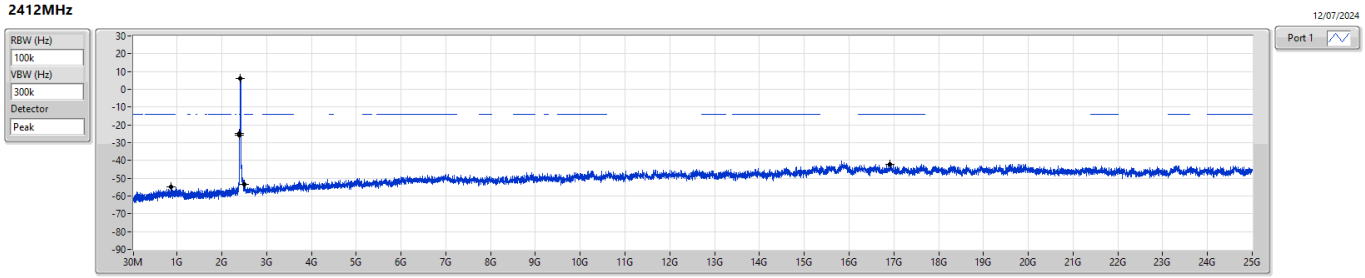


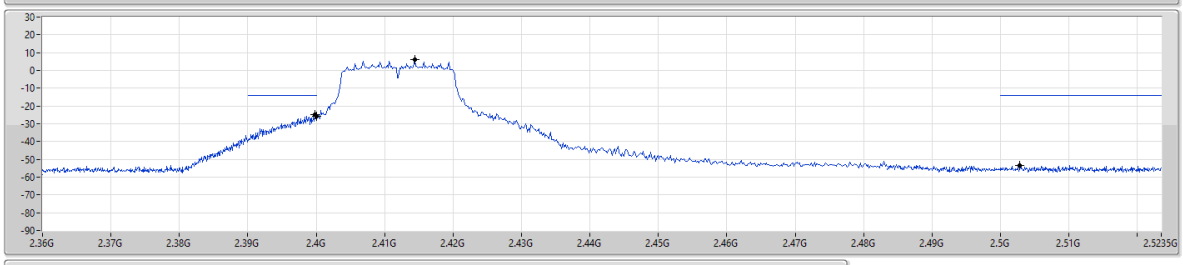


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41253G	8.64	-11.36	2.08273G	-55.17	2.4G	-33.58	2.4G	-34.28	2.5079G	-53.14	16.50388G	-41.10	1

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

2412MHz

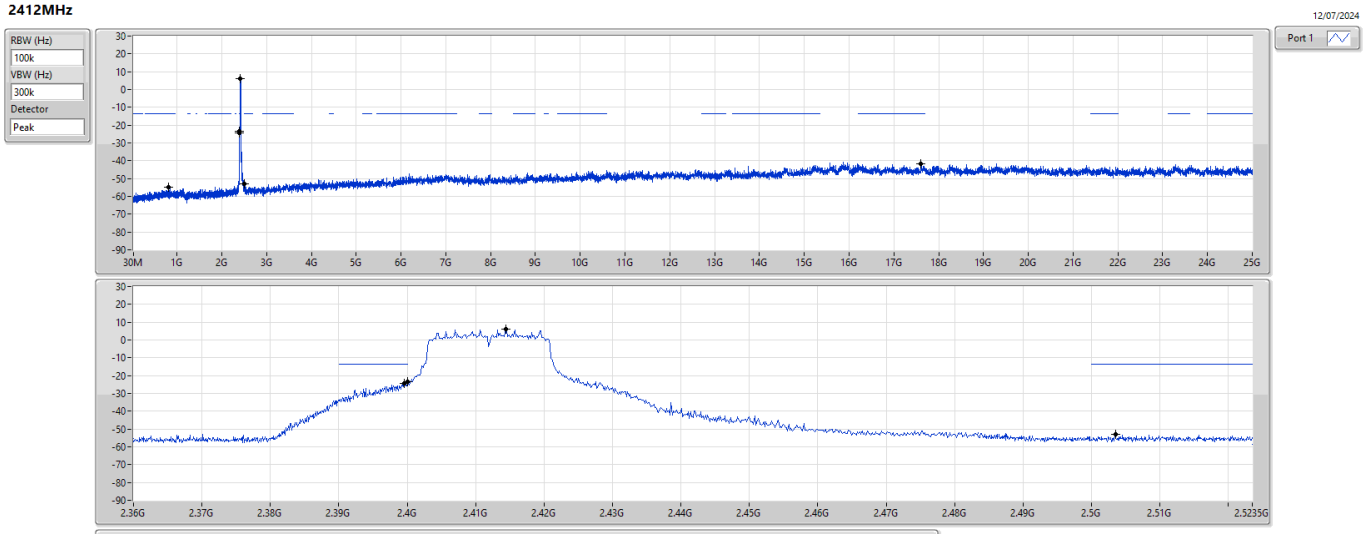




Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41436G	5.97	-14.03	875.79M	-54.97	2.39984G	-24.79	2.4G	-25.89	2.50286G	-53.21	16.90846G	-42.10	1

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

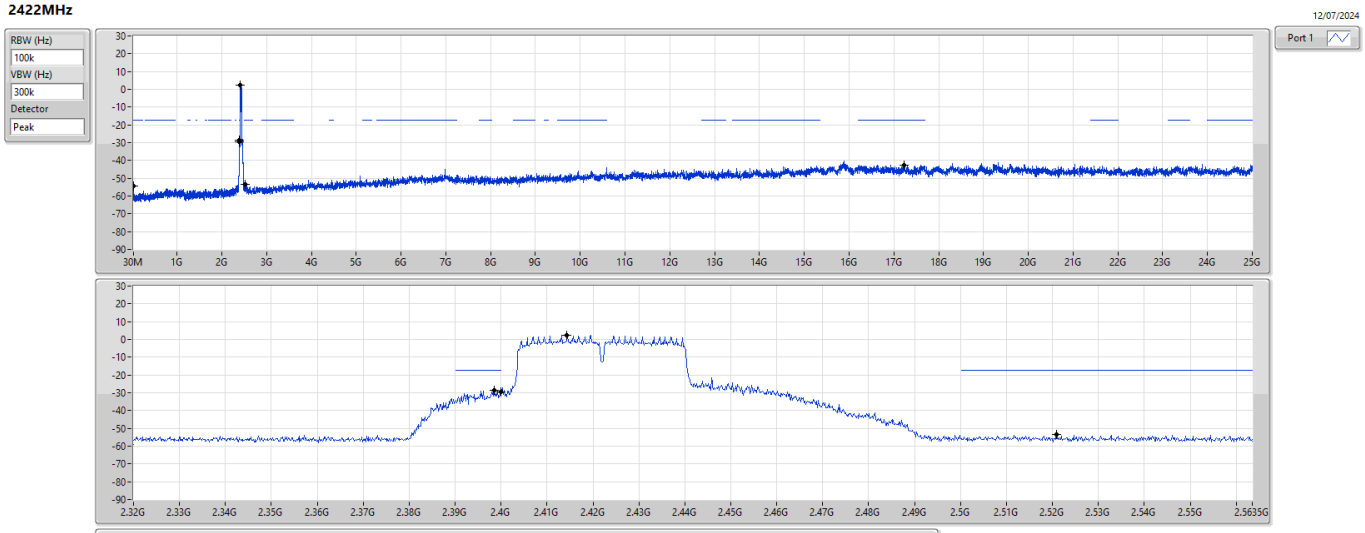
2412MHz



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
2.41436G	6.31	-13.69	809.39M	-54.92	2.39952G	-24.52	2.4G	-23.58	2.5035G	-52.76	17.60242G	-41.89	1

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

2422MHz



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
2.41436G	2.55	-17.45	30M	-54.49	2.39856G	-28.82	2.4G	-29.44	2.52094G	-53.59	17.22856G	-42.47	1

Summary

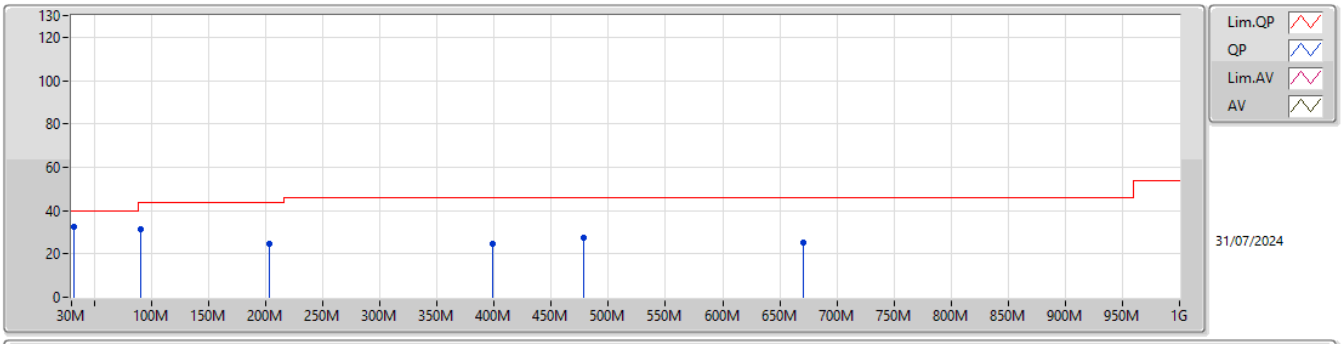
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	PK	489.78M	41.81	46.00	-4.19	3	Horizontal	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	31.94M	32.38	40.00	-7.62	3	Vertical	360	1.00	-
2437MHz	Pass	PK	90.14M	31.49	43.50	-12.01	3	Vertical	360	1.00	-
2437MHz	Pass	PK	202.66M	24.60	43.50	-18.90	3	Vertical	360	1.00	-
2437MHz	Pass	PK	398.6M	24.62	46.00	-21.38	3	Vertical	360	1.00	-
2437MHz	Pass	PK	478.14M	27.21	46.00	-18.79	3	Vertical	360	1.00	-
2437MHz	Pass	PK	670.2M	25.02	46.00	-20.98	3	Vertical	360	1.00	-
2437MHz	Pass	PK	30M	21.13	40.00	-18.87	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	123.12M	28.19	43.50	-15.31	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	249.22M	25.00	46.00	-21.00	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	489.78M	41.81	46.00	-4.19	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	637.22M	19.07	46.00	-26.93	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	749.74M	31.21	46.00	-14.79	3	Horizontal	0	1.00	-

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

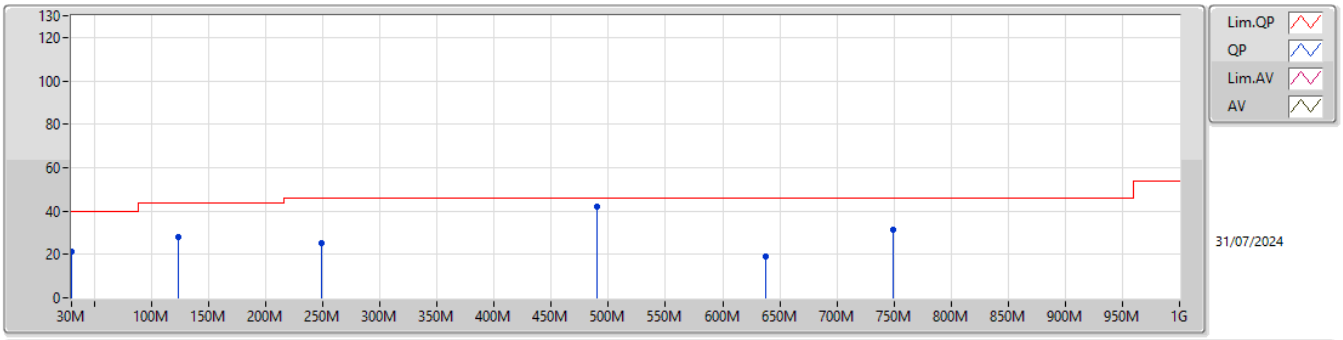
2437MHz_PoE



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	31.94M	32.38	40.00	-7.62	-20.11	3	Vertical	360	1.00	52.49	23.74	0.45	44.30
PK	90.14M	31.49	43.50	-12.01	-28.68	3	Vertical	360	1.00	60.17	15.09	0.84	44.61
PK	202.66M	24.60	43.50	-18.90	-28.12	3	Vertical	360	1.00	52.72	15.23	1.12	44.47
PK	398.6M	24.62	46.00	-21.38	-20.65	3	Vertical	360	1.00	45.27	21.92	1.45	44.02
PK	478.14M	27.21	46.00	-18.79	-18.61	3	Vertical	360	1.00	45.82	23.70	1.59	43.90
PK	670.2M	25.02	46.00	-20.98	-15.66	3	Vertical	360	1.00	40.68	26.35	1.85	43.86

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

2437MHz_PoE



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	30M	21.13	40.00	-18.87	-19.10	3	Horizontal	0	1.00	40.23	24.72	0.45	44.27
PK	123.12M	28.19	43.50	-15.31	-26.01	3	Horizontal	0	1.00	54.20	17.69	0.85	44.55
PK	249.22M	25.00	46.00	-21.00	-24.71	3	Horizontal	0	1.00	49.71	18.51	1.15	44.37
PK	489.78M	41.81	46.00	-4.19	-18.34	3	Horizontal	0	1.00	60.15	23.93	1.62	43.89
PK	637.22M	19.07	46.00	-26.93	-15.43	3	Horizontal	0	1.00	34.50	26.67	1.76	43.86
PK	749.74M	31.21	46.00	-14.79	-13.43	3	Horizontal	0	1.00	44.64	28.33	2.02	43.78

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	2.4835G	52.92	54.00	-1.08	3	Horizontal	360	1.50
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4835G	53.63	54.00	-0.37	3	Horizontal	357	1.00
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.39G	53.86	54.00	-0.14	3	Horizontal	360	1.25
802.11n HT40_Nss1,(MCS0)_1TX	Pass	AV	2.4835G	53.89	54.00	-0.11	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)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	45.62	54.00	-8.38	3	Vertical	5	2.84
2412MHz	Pass	AV	2.4128G	98.67	Inf	-Inf	3	Vertical	5	2.84
2412MHz	Pass	PK	2.3752G	58.65	74.00	-15.35	3	Vertical	5	2.84
2412MHz	Pass	PK	2.412G	101.66	Inf	-Inf	3	Vertical	5	2.84
2412MHz	Pass	AV	2.3872G	51.52	54.00	-2.48	3	Horizontal	4	1.00
2412MHz	Pass	AV	2.4128G	108.41	Inf	-Inf	3	Horizontal	4	1.00
2412MHz	Pass	PK	2.39G	62.44	74.00	-11.56	3	Horizontal	4	1.00
2412MHz	Pass	PK	2.412G	111.53	Inf	-Inf	3	Horizontal	4	1.00
2412MHz	Pass	AV	4.81532G	29.61	54.00	-24.39	3	Vertical	348	2.19
2412MHz	Pass	AV	12.0608G	42.13	54.00	-11.87	3	Vertical	320	2.54
2412MHz	Pass	PK	4.82156G	42.89	74.00	-31.11	3	Vertical	348	2.19
2412MHz	Pass	PK	12.06184G	53.85	74.00	-20.15	3	Vertical	320	2.54
2412MHz	Pass	AV	4.81932G	29.62	54.00	-24.38	3	Horizontal	43	2.95
2412MHz	Pass	AV	12.06072G	42.17	54.00	-11.83	3	Horizontal	18	1.50
2412MHz	Pass	PK	4.83316G	43.41	74.00	-30.59	3	Horizontal	43	2.95
2412MHz	Pass	PK	12.06016G	54.53	74.00	-19.47	3	Horizontal	18	1.50
2417MHz	Pass	AV	2.39G	46.01	54.00	-7.99	3	Vertical	4	2.85
2417MHz	Pass	AV	2.4162G	99.87	Inf	-Inf	3	Vertical	4	2.85
2417MHz	Pass	PK	2.371G	59.04	74.00	-14.96	3	Vertical	4	2.85
2417MHz	Pass	PK	2.417G	103.00	Inf	-Inf	3	Vertical	4	2.85
2417MHz	Pass	AV	2.39G	52.68	54.00	-1.32	3	Horizontal	360	1.50
2417MHz	Pass	AV	2.4162G	108.74	Inf	-Inf	3	Horizontal	360	1.50
2417MHz	Pass	PK	2.39G	61.41	74.00	-12.59	3	Horizontal	360	1.50
2417MHz	Pass	PK	2.417G	111.94	Inf	-Inf	3	Horizontal	360	1.50
2437MHz	Pass	AV	2.3894G	44.85	54.00	-9.15	3	Vertical	30	1.20
2437MHz	Pass	AV	2.4386G	96.43	Inf	-Inf	3	Vertical	30	1.20
2437MHz	Pass	AV	2.4846G	45.69	54.00	-8.31	3	Vertical	30	1.20
2437MHz	Pass	PK	2.3706G	59.01	74.00	-14.99	3	Vertical	30	1.20
2437MHz	Pass	PK	2.4398G	99.37	Inf	-Inf	3	Vertical	30	1.20
2437MHz	Pass	PK	2.495G	58.54	74.00	-15.46	3	Vertical	30	1.20
2437MHz	Pass	AV	2.3898G	48.63	54.00	-5.37	3	Horizontal	360	1.00
2437MHz	Pass	AV	2.4386G	108.76	Inf	-Inf	3	Horizontal	360	1.00
2437MHz	Pass	AV	2.485G	50.51	54.00	-3.49	3	Horizontal	360	1.00
2437MHz	Pass	PK	2.3898G	59.88	74.00	-14.12	3	Horizontal	360	1.00
2437MHz	Pass	PK	2.4386G	112.03	Inf	-Inf	3	Horizontal	360	1.00
2437MHz	Pass	PK	2.4854G	60.85	74.00	-13.15	3	Horizontal	360	1.00
2437MHz	Pass	AV	4.89376G	30.75	54.00	-23.25	3	Vertical	329	2.50
2437MHz	Pass	AV	7.31372G	45.09	54.00	-8.91	3	Vertical	351	1.00
2437MHz	Pass	AV	12.1876G	48.24	54.00	-5.76	3	Vertical	93	1.35
2437MHz	Pass	PK	4.87624G	44.11	74.00	-29.89	3	Vertical	329	2.50
2437MHz	Pass	PK	7.31356G	54.29	74.00	-19.71	3	Vertical	351	1.00
2437MHz	Pass	PK	12.18664G	57.28	74.00	-16.72	3	Vertical	93	1.35
2437MHz	Pass	AV	4.8936G	30.76	54.00	-23.24	3	Horizontal	85	2.65
2437MHz	Pass	AV	7.31368G	47.46	54.00	-6.54	3	Horizontal	0	2.98
2437MHz	Pass	AV	12.18772G	47.80	54.00	-6.20	3	Horizontal	18	1.50
2437MHz	Pass	PK	4.89008G	44.39	74.00	-29.61	3	Horizontal	85	2.65
2437MHz	Pass	PK	7.31316G	55.58	74.00	-18.42	3	Horizontal	0	2.98
2437MHz	Pass	PK	12.18692G	57.66	74.00	-16.34	3	Horizontal	18	1.50
2457MHz	Pass	AV	2.4562G	98.88	Inf	-Inf	3	Vertical	29	1.05
2457MHz	Pass	AV	2.4835G	46.33	54.00	-7.67	3	Vertical	29	1.05
2457MHz	Pass	PK	2.457G	101.96	Inf	-Inf	3	Vertical	29	1.05
2457MHz	Pass	PK	2.4948G	59.00	74.00	-15.00	3	Vertical	29	1.05
2457MHz	Pass	AV	2.4562G	109.69	Inf	-Inf	3	Horizontal	360	1.50
2457MHz	Pass	AV	2.4835G	52.92	54.00	-1.08	3	Horizontal	360	1.50
2457MHz	Pass	PK	2.4568G	112.78	Inf	-Inf	3	Horizontal	360	1.50
2457MHz	Pass	PK	2.4836G	62.22	74.00	-11.78	3	Horizontal	360	1.50
2462MHz	Pass	AV	2.4602G	97.24	Inf	-Inf	3	Vertical	28	1.05
2462MHz	Pass	AV	2.4835G	46.50	54.00	-7.50	3	Vertical	28	1.05
2462MHz	Pass	PK	2.4606G	100.65	Inf	-Inf	3	Vertical	28	1.05
2462MHz	Pass	PK	2.4864G	59.61	74.00	-14.39	3	Vertical	28	1.05

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2462MHz	Pass	AV	2.4602G	107.65	Inf	-Inf	3	Horizontal	360	1.50
2462MHz	Pass	AV	2.4835G	52.89	54.00	-1.11	3	Horizontal	360	1.50
2462MHz	Pass	PK	2.4618G	110.93	Inf	-Inf	3	Horizontal	360	1.50
2462MHz	Pass	PK	2.4836G	61.77	74.00	-12.23	3	Horizontal	360	1.50
2462MHz	Pass	AV	4.915G	31.00	54.00	-23.00	3	Vertical	213	2.30
2462MHz	Pass	AV	7.38498G	38.59	54.00	-15.41	3	Vertical	352	1.00
2462MHz	Pass	AV	12.31084G	42.83	54.00	-11.17	3	Vertical	93	1.28
2462MHz	Pass	PK	4.914G	44.22	74.00	-29.78	3	Vertical	213	2.30
2462MHz	Pass	PK	7.38468G	51.65	74.00	-22.35	3	Vertical	352	1.00
2462MHz	Pass	PK	12.30892G	55.26	74.00	-18.74	3	Vertical	93	1.28
2462MHz	Pass	AV	4.93316G	31.02	54.00	-22.98	3	Horizontal	303	1.26
2462MHz	Pass	AV	7.38516G	41.57	54.00	-12.43	3	Horizontal	359	3.00
2462MHz	Pass	AV	12.31066G	42.24	54.00	-11.76	3	Horizontal	21	1.87
2462MHz	Pass	PK	4.9142G	44.37	74.00	-29.63	3	Horizontal	303	1.26
2462MHz	Pass	PK	7.38552G	53.18	74.00	-20.82	3	Horizontal	359	3.00
2462MHz	Pass	PK	12.30826G	55.03	74.00	-18.97	3	Horizontal	21	1.87
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	46.83	54.00	-7.17	3	Vertical	4	2.85
2412MHz	Pass	AV	2.416G	90.03	Inf	-Inf	3	Vertical	4	2.85
2412MHz	Pass	PK	2.3898G	60.71	74.00	-13.29	3	Vertical	4	2.85
2412MHz	Pass	PK	2.4164G	99.94	Inf	-Inf	3	Vertical	4	2.85
2412MHz	Pass	AV	2.39G	52.62	54.00	-1.38	3	Horizontal	360	2.04
2412MHz	Pass	AV	2.4162G	99.35	Inf	-Inf	3	Horizontal	360	2.04
2412MHz	Pass	PK	2.3898G	69.94	74.00	-4.06	3	Horizontal	360	2.04
2412MHz	Pass	PK	2.4168G	109.66	Inf	-Inf	3	Horizontal	360	2.04
2412MHz	Pass	AV	4.82144G	30.60	54.00	-23.40	3	Vertical	13	1.37
2412MHz	Pass	AV	12.06834G	41.79	54.00	-12.21	3	Vertical	159	1.51
2412MHz	Pass	PK	4.8234G	43.29	74.00	-30.71	3	Vertical	13	1.37
2412MHz	Pass	PK	12.05586G	55.71	74.00	-18.29	3	Vertical	159	1.51
2412MHz	Pass	AV	4.82596G	30.63	54.00	-23.37	3	Horizontal	259	2.69
2412MHz	Pass	AV	12.06582G	41.95	54.00	-12.05	3	Horizontal	211	1.50
2412MHz	Pass	PK	4.82908G	43.92	74.00	-30.08	3	Horizontal	259	2.69
2412MHz	Pass	PK	12.0627G	55.46	74.00	-18.54	3	Horizontal	211	1.50
2417MHz	Pass	AV	2.39G	47.04	54.00	-6.96	3	Vertical	6	2.85
2417MHz	Pass	AV	2.4154G	92.82	Inf	-Inf	3	Vertical	6	2.85
2417MHz	Pass	PK	2.3898G	61.28	74.00	-12.72	3	Vertical	6	2.85
2417MHz	Pass	PK	2.4142G	103.45	Inf	-Inf	3	Vertical	6	2.85
2417MHz	Pass	AV	2.39G	53.39	54.00	-0.61	3	Horizontal	4	2.03
2417MHz	Pass	AV	2.4154G	101.91	Inf	-Inf	3	Horizontal	4	2.03
2417MHz	Pass	PK	2.3898G	70.60	74.00	-3.40	3	Horizontal	4	2.03
2417MHz	Pass	PK	2.4144G	112.38	Inf	-Inf	3	Horizontal	4	2.03
2437MHz	Pass	AV	2.3878G	45.68	54.00	-8.32	3	Vertical	30	1.22
2437MHz	Pass	AV	2.4406G	89.02	Inf	-Inf	3	Vertical	30	1.22
2437MHz	Pass	AV	2.4835G	47.14	54.00	-6.86	3	Vertical	30	1.22
2437MHz	Pass	PK	2.3522G	58.27	74.00	-15.73	3	Vertical	30	1.22
2437MHz	Pass	PK	2.439G	99.05	Inf	-Inf	3	Vertical	30	1.22
2437MHz	Pass	PK	2.4835G	62.34	74.00	-11.66	3	Vertical	30	1.22
2437MHz	Pass	AV	2.3898G	49.39	54.00	-4.61	3	Horizontal	357	1.00
2437MHz	Pass	AV	2.443G	101.53	Inf	-Inf	3	Horizontal	357	1.00
2437MHz	Pass	AV	2.4835G	53.63	54.00	-0.37	3	Horizontal	357	1.00
2437MHz	Pass	PK	2.3898G	65.39	74.00	-8.61	3	Horizontal	357	1.00
2437MHz	Pass	PK	2.4426G	111.45	Inf	-Inf	3	Horizontal	357	1.00
2437MHz	Pass	PK	2.4842G	70.78	74.00	-3.22	3	Horizontal	357	1.00
2437MHz	Pass	AV	4.86876G	31.28	54.00	-22.72	3	Vertical	255	1.69
2437MHz	Pass	AV	7.30014G	38.13	54.00	-15.87	3	Vertical	159	1.50
2437MHz	Pass	AV	12.19724G	42.19	54.00	-11.81	3	Vertical	327	1.50
2437MHz	Pass	PK	4.88212G	43.72	74.00	-30.28	3	Vertical	255	1.69
2437MHz	Pass	PK	7.31274G	51.71	74.00	-22.29	3	Vertical	159	1.50
2437MHz	Pass	PK	12.19226G	55.65	74.00	-18.35	3	Vertical	327	1.50
2437MHz	Pass	AV	4.8654G	31.39	54.00	-22.61	3	Horizontal	330	1.82
2437MHz	Pass	AV	7.3005G	38.03	54.00	-15.97	3	Horizontal	39	1.99
2437MHz	Pass	AV	12.19346G	42.25	54.00	-11.75	3	Horizontal	241	2.91

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2437MHz	Pass	PK	4.86948G	45.10	74.00	-28.90	3	Horizontal	330	1.82
2437MHz	Pass	PK	7.31766G	51.51	74.00	-22.49	3	Horizontal	39	1.99
2437MHz	Pass	PK	12.17456G	55.67	74.00	-18.33	3	Horizontal	241	2.91
2457MHz	Pass	AV	2.4548G	91.80	Inf	-Inf	3	Vertical	29	1.05
2457MHz	Pass	AV	2.4835G	47.25	54.00	-6.75	3	Vertical	29	1.05
2457MHz	Pass	PK	2.4534G	101.69	Inf	-Inf	3	Vertical	29	1.05
2457MHz	Pass	PK	2.4835G	65.12	74.00	-8.88	3	Vertical	29	1.05
2457MHz	Pass	AV	2.4538G	102.87	Inf	-Inf	3	Horizontal	360	1.50
2457MHz	Pass	AV	2.4835G	53.59	54.00	-0.41	3	Horizontal	360	1.50
2457MHz	Pass	PK	2.4544G	113.20	Inf	-Inf	3	Horizontal	360	1.50
2457MHz	Pass	PK	2.4836G	73.06	74.00	-0.94	3	Horizontal	360	1.50
2462MHz	Pass	AV	2.4572G	89.41	Inf	-Inf	3	Vertical	37	1.06
2462MHz	Pass	AV	2.4835G	47.15	54.00	-6.85	3	Vertical	37	1.06
2462MHz	Pass	PK	2.4576G	100.06	Inf	-Inf	3	Vertical	37	1.06
2462MHz	Pass	PK	2.4842G	62.10	74.00	-11.90	3	Vertical	37	1.06
2462MHz	Pass	AV	2.4572G	100.58	Inf	-Inf	3	Horizontal	0	1.50
2462MHz	Pass	AV	2.4835G	52.77	54.00	-1.23	3	Horizontal	0	1.50
2462MHz	Pass	PK	2.4576G	111.08	Inf	-Inf	3	Horizontal	0	1.50
2462MHz	Pass	PK	2.4836G	71.28	74.00	-2.72	3	Horizontal	0	1.50
2462MHz	Pass	AV	4.92359G	31.77	54.00	-22.23	3	Vertical	216	1.50
2462MHz	Pass	AV	7.3722G	37.60	54.00	-16.40	3	Vertical	352	1.50
2462MHz	Pass	AV	12.29704G	41.31	54.00	-12.69	3	Vertical	86	2.54
2462MHz	Pass	PK	4.92622G	45.87	74.00	-28.13	3	Vertical	216	1.50
2462MHz	Pass	PK	7.39638G	50.74	74.00	-23.26	3	Vertical	352	1.50
2462MHz	Pass	PK	12.30502G	54.60	74.00	-19.40	3	Vertical	86	2.54
2462MHz	Pass	AV	4.92649G	31.86	54.00	-22.14	3	Horizontal	359	1.50
2462MHz	Pass	AV	7.38654G	37.64	54.00	-16.36	3	Horizontal	360	1.60
2462MHz	Pass	AV	12.29674G	41.36	54.00	-12.64	3	Horizontal	81	2.56
2462MHz	Pass	PK	4.92174G	45.74	74.00	-28.26	3	Horizontal	359	1.50
2462MHz	Pass	PK	7.37106G	51.39	74.00	-22.61	3	Horizontal	360	1.60
2462MHz	Pass	PK	12.29782G	54.64	74.00	-19.36	3	Horizontal	81	2.56
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	47.31	54.00	-6.69	3	Vertical	5	2.85
2412MHz	Pass	AV	2.417G	90.08	Inf	-Inf	3	Vertical	5	2.85
2412MHz	Pass	PK	2.3894G	61.00	74.00	-13.00	3	Vertical	5	2.85
2412MHz	Pass	PK	2.4156G	100.00	Inf	-Inf	3	Vertical	5	2.85
2412MHz	Pass	AV	2.39G	53.86	54.00	-0.14	3	Horizontal	360	1.25
2412MHz	Pass	AV	2.4154G	98.98	Inf	-Inf	3	Horizontal	360	1.25
2412MHz	Pass	PK	2.39G	70.45	74.00	-3.55	3	Horizontal	360	1.25
2412MHz	Pass	PK	2.414G	109.69	Inf	-Inf	3	Horizontal	360	1.25
2412MHz	Pass	AV	4.8224G	30.62	54.00	-23.38	3	Vertical	133	1.25
2412MHz	Pass	AV	12.05803G	41.84	54.00	-12.16	3	Vertical	257	1.50
2412MHz	Pass	PK	4.82452G	44.48	74.00	-29.52	3	Vertical	133	1.25
2412MHz	Pass	PK	12.06136G	56.11	74.00	-17.89	3	Vertical	257	1.50
2412MHz	Pass	AV	4.82261G	30.63	54.00	-23.37	3	Horizontal	299	1.64
2412MHz	Pass	AV	12.05936G	41.97	54.00	-12.03	3	Horizontal	24	1.50
2412MHz	Pass	PK	4.82255G	44.56	74.00	-29.44	3	Horizontal	299	1.64
2412MHz	Pass	PK	12.05895G	55.47	74.00	-18.53	3	Horizontal	24	1.50
2417MHz	Pass	AV	2.39G	47.42	54.00	-6.58	3	Vertical	5	2.86
2417MHz	Pass	AV	2.4152G	91.98	Inf	-Inf	3	Vertical	5	2.86
2417MHz	Pass	PK	2.3884G	60.07	74.00	-13.93	3	Vertical	5	2.86
2417MHz	Pass	PK	2.4198G	102.32	Inf	-Inf	3	Vertical	5	2.86
2417MHz	Pass	AV	2.39G	53.85	54.00	-0.15	3	Horizontal	360	1.50
2417MHz	Pass	AV	2.4152G	101.31	Inf	-Inf	3	Horizontal	360	1.50
2417MHz	Pass	PK	2.3896G	68.88	74.00	-5.12	3	Horizontal	360	1.50
2417MHz	Pass	PK	2.4144G	111.17	Inf	-Inf	3	Horizontal	360	1.50
2437MHz	Pass	AV	2.3894G	45.75	54.00	-8.25	3	Vertical	27	1.50
2437MHz	Pass	AV	2.4438G	88.32	Inf	-Inf	3	Vertical	27	1.50
2437MHz	Pass	AV	2.4835G	46.99	54.00	-7.01	3	Vertical	27	1.50
2437MHz	Pass	PK	2.3854G	58.78	74.00	-15.22	3	Vertical	27	1.50
2437MHz	Pass	PK	2.4406G	98.05	Inf	-Inf	3	Vertical	27	1.50
2437MHz	Pass	PK	2.4835G	60.60	74.00	-13.40	3	Vertical	27	1.50

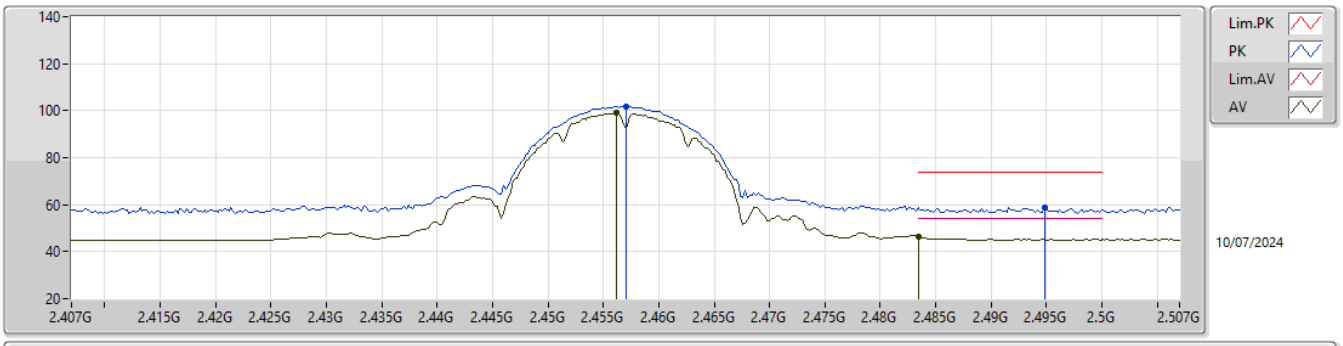
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2437MHz	Pass	AV	2.3898G	49.26	54.00	-4.74	3	Horizontal	360	1.00
2437MHz	Pass	AV	2.4438G	100.90	Inf	-Inf	3	Horizontal	360	1.00
2437MHz	Pass	AV	2.4835G	53.86	54.00	-0.14	3	Horizontal	360	1.00
2437MHz	Pass	PK	2.3898G	64.42	74.00	-9.58	3	Horizontal	360	1.00
2437MHz	Pass	PK	2.4406G	111.01	Inf	-Inf	3	Horizontal	360	1.00
2437MHz	Pass	PK	2.4838G	70.92	74.00	-3.08	3	Horizontal	360	1.00
2437MHz	Pass	AV	4.8749G	31.53	54.00	-22.47	3	Vertical	360	1.50
2437MHz	Pass	AV	7.30976G	38.89	54.00	-15.11	3	Vertical	344	1.05
2437MHz	Pass	AV	12.1866G	42.80	54.00	-11.20	3	Vertical	96	1.30
2437MHz	Pass	PK	4.87518G	44.89	74.00	-29.11	3	Vertical	360	1.50
2437MHz	Pass	PK	7.31227G	52.86	74.00	-21.14	3	Vertical	344	1.05
2437MHz	Pass	PK	12.18417G	56.83	74.00	-17.17	3	Vertical	96	1.30
2437MHz	Pass	AV	4.87476G	31.36	54.00	-22.64	3	Horizontal	39	1.50
2437MHz	Pass	AV	7.31275G	39.42	54.00	-14.58	3	Horizontal	0	1.50
2437MHz	Pass	AV	12.18721G	42.51	54.00	-11.49	3	Horizontal	15	1.50
2437MHz	Pass	PK	4.8719G	44.99	74.00	-29.01	3	Horizontal	39	1.50
2437MHz	Pass	PK	7.31071G	53.81	74.00	-20.19	3	Horizontal	0	1.50
2437MHz	Pass	PK	12.18627G	56.31	74.00	-17.69	3	Horizontal	15	1.50
2457MHz	Pass	AV	2.4544G	91.14	Inf	-Inf	3	Vertical	36	1.06
2457MHz	Pass	AV	2.4835G	47.17	54.00	-6.83	3	Vertical	36	1.06
2457MHz	Pass	PK	2.4538G	100.69	Inf	-Inf	3	Vertical	36	1.06
2457MHz	Pass	PK	2.4838G	61.79	74.00	-12.21	3	Vertical	36	1.06
2457MHz	Pass	AV	2.4544G	101.82	Inf	-Inf	3	Horizontal	360	1.50
2457MHz	Pass	AV	2.4835G	52.77	54.00	-1.23	3	Horizontal	360	1.50
2457MHz	Pass	PK	2.4536G	111.46	Inf	-Inf	3	Horizontal	360	1.50
2457MHz	Pass	PK	2.4854G	70.29	74.00	-3.71	3	Horizontal	360	1.50
2462MHz	Pass	AV	2.4556G	88.29	Inf	-Inf	3	Vertical	29	1.05
2462MHz	Pass	AV	2.4835G	47.07	54.00	-6.93	3	Vertical	29	1.05
2462MHz	Pass	PK	2.4584G	97.93	Inf	-Inf	3	Vertical	29	1.05
2462MHz	Pass	PK	2.4844G	61.87	74.00	-12.13	3	Vertical	29	1.05
2462MHz	Pass	AV	2.4556G	99.10	Inf	-Inf	3	Horizontal	360	1.50
2462MHz	Pass	AV	2.4836G	51.98	54.00	-2.02	3	Horizontal	360	1.50
2462MHz	Pass	PK	2.4584G	108.79	Inf	-Inf	3	Horizontal	360	1.50
2462MHz	Pass	PK	2.4835G	72.07	74.00	-1.93	3	Horizontal	360	1.50
2462MHz	Pass	AV	4.92604G	31.79	54.00	-22.21	3	Vertical	247	1.47
2462MHz	Pass	AV	7.38499G	37.51	54.00	-16.49	3	Vertical	343	1.50
2462MHz	Pass	AV	12.3099G	41.08	54.00	-12.92	3	Vertical	280	2.16
2462MHz	Pass	PK	4.92527G	45.47	74.00	-28.53	3	Vertical	247	1.47
2462MHz	Pass	PK	7.38575G	50.81	74.00	-23.19	3	Vertical	343	1.50
2462MHz	Pass	PK	12.30885G	54.43	74.00	-19.57	3	Vertical	280	2.16
2462MHz	Pass	AV	4.92623G	31.99	54.00	-22.01	3	Horizontal	293	2.24
2462MHz	Pass	AV	7.3884G	37.43	54.00	-16.57	3	Horizontal	344	2.37
2462MHz	Pass	AV	12.30897G	41.06	54.00	-12.94	3	Horizontal	80	1.50
2462MHz	Pass	PK	4.92211G	45.44	74.00	-28.56	3	Horizontal	293	2.24
2462MHz	Pass	PK	7.38788G	51.28	74.00	-22.72	3	Horizontal	344	2.37
2462MHz	Pass	PK	12.31031G	55.55	74.00	-18.45	3	Horizontal	80	1.50
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.39G	48.00	54.00	-6.00	3	Vertical	5	2.87
2422MHz	Pass	AV	2.4176G	86.93	Inf	-Inf	3	Vertical	5	2.87
2422MHz	Pass	AV	2.494G	46.95	54.00	-7.05	3	Vertical	5	2.87
2422MHz	Pass	PK	2.39G	62.54	74.00	-11.46	3	Vertical	5	2.87
2422MHz	Pass	PK	2.4148G	97.14	Inf	-Inf	3	Vertical	5	2.87
2422MHz	Pass	PK	2.4924G	59.46	74.00	-14.54	3	Vertical	5	2.87
2422MHz	Pass	AV	2.39G	53.67	54.00	-0.33	3	Horizontal	360	1.25
2422MHz	Pass	AV	2.4144G	96.42	Inf	-Inf	3	Horizontal	360	1.25
2422MHz	Pass	AV	2.484G	48.17	54.00	-5.83	3	Horizontal	360	1.25
2422MHz	Pass	PK	2.39G	72.34	74.00	-1.66	3	Horizontal	360	1.25
2422MHz	Pass	PK	2.4148G	106.86	Inf	-Inf	3	Horizontal	360	1.25
2422MHz	Pass	PK	2.484G	62.05	74.00	-11.95	3	Horizontal	360	1.25
2422MHz	Pass	AV	4.84589G	31.97	54.00	-22.03	3	Vertical	160	1.50
2422MHz	Pass	AV	7.26843G	38.76	54.00	-15.24	3	Vertical	106	1.50
2422MHz	Pass	AV	12.10924G	42.71	54.00	-11.29	3	Vertical	240	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2422MHz	Pass	PK	4.84469G	44.77	74.00	-29.23	3	Vertical	160	1.50
2422MHz	Pass	PK	7.26386G	51.14	74.00	-22.86	3	Vertical	106	1.50
2422MHz	Pass	PK	12.11241G	55.86	74.00	-18.14	3	Vertical	240	1.50
2422MHz	Pass	AV	4.8451G	32.05	54.00	-21.95	3	Horizontal	0	1.50
2422MHz	Pass	AV	7.26637G	39.38	54.00	-14.62	3	Horizontal	0	1.71
2422MHz	Pass	AV	12.1086G	42.91	54.00	-11.09	3	Horizontal	253	1.16
2422MHz	Pass	PK	4.84642G	44.74	74.00	-29.26	3	Horizontal	0	1.50
2422MHz	Pass	PK	7.26762G	51.79	74.00	-22.21	3	Horizontal	0	1.71
2422MHz	Pass	PK	12.11171G	55.80	74.00	-18.20	3	Horizontal	253	1.16
2437MHz	Pass	AV	2.3886G	46.61	54.00	-7.39	3	Vertical	29	1.04
2437MHz	Pass	AV	2.4518G	84.79	Inf	-Inf	3	Vertical	29	1.04
2437MHz	Pass	AV	2.4838G	47.69	54.00	-6.31	3	Vertical	29	1.04
2437MHz	Pass	PK	2.3886G	58.30	74.00	-15.70	3	Vertical	29	1.04
2437MHz	Pass	PK	2.4522G	94.52	Inf	-Inf	3	Vertical	29	1.04
2437MHz	Pass	PK	2.4854G	60.20	74.00	-13.80	3	Vertical	29	1.04
2437MHz	Pass	AV	2.3898G	50.16	54.00	-3.84	3	Horizontal	360	1.50
2437MHz	Pass	AV	2.4506G	95.93	Inf	-Inf	3	Horizontal	360	1.50
2437MHz	Pass	AV	2.4835G	52.47	54.00	-1.53	3	Horizontal	360	1.50
2437MHz	Pass	PK	2.3898G	63.60	74.00	-10.40	3	Horizontal	360	1.50
2437MHz	Pass	PK	2.4522G	105.67	Inf	-Inf	3	Horizontal	360	1.50
2437MHz	Pass	PK	2.485G	67.89	74.00	-6.11	3	Horizontal	360	1.50
2437MHz	Pass	AV	4.8747G	32.41	54.00	-21.59	3	Vertical	164	1.50
2437MHz	Pass	AV	7.31038G	38.87	54.00	-15.13	3	Vertical	160	1.50
2437MHz	Pass	AV	12.18563G	43.01	54.00	-10.99	3	Vertical	212	1.50
2437MHz	Pass	PK	4.87495G	45.96	74.00	-28.04	3	Vertical	164	1.50
2437MHz	Pass	PK	7.31185G	51.48	74.00	-22.52	3	Vertical	160	1.50
2437MHz	Pass	PK	12.18523G	55.35	74.00	-18.65	3	Vertical	212	1.50
2437MHz	Pass	AV	4.87382G	32.40	54.00	-21.60	3	Horizontal	296	1.76
2437MHz	Pass	AV	7.31235G	39.21	54.00	-14.79	3	Horizontal	358	1.71
2437MHz	Pass	AV	12.18618G	42.73	54.00	-11.27	3	Horizontal	216	2.37
2437MHz	Pass	PK	4.87637G	45.48	74.00	-28.52	3	Horizontal	296	1.76
2437MHz	Pass	PK	7.31039G	52.07	74.00	-21.93	3	Horizontal	358	1.71
2437MHz	Pass	PK	12.18726G	56.07	74.00	-17.93	3	Horizontal	216	2.37
2447MHz	Pass	AV	2.3862G	46.44	54.00	-7.56	3	Vertical	27	1.00
2447MHz	Pass	AV	2.4522G	84.39	Inf	-Inf	3	Vertical	27	1.00
2447MHz	Pass	AV	2.4835G	47.55	54.00	-6.45	3	Vertical	27	1.00
2447MHz	Pass	PK	2.347G	58.54	74.00	-15.46	3	Vertical	27	1.00
2447MHz	Pass	PK	2.4526G	94.20	Inf	-Inf	3	Vertical	27	1.00
2447MHz	Pass	PK	2.4842G	60.29	74.00	-13.71	3	Vertical	27	1.00
2447MHz	Pass	AV	2.3886G	46.97	54.00	-7.03	3	Horizontal	360	1.00
2447MHz	Pass	AV	2.4546G	95.37	Inf	-Inf	3	Horizontal	360	1.00
2447MHz	Pass	AV	2.4835G	52.92	54.00	-1.08	3	Horizontal	360	1.00
2447MHz	Pass	PK	2.3886G	59.52	74.00	-14.48	3	Horizontal	360	1.00
2447MHz	Pass	PK	2.4534G	104.99	Inf	-Inf	3	Horizontal	360	1.00
2447MHz	Pass	PK	2.4835G	68.69	74.00	-5.31	3	Horizontal	360	1.00
2452MHz	Pass	AV	2.3628G	46.45	54.00	-7.55	3	Vertical	38	1.07
2452MHz	Pass	AV	2.4556G	84.88	Inf	-Inf	3	Vertical	38	1.07
2452MHz	Pass	AV	2.4844G	47.81	54.00	-6.19	3	Vertical	38	1.07
2452MHz	Pass	PK	2.3744G	58.33	74.00	-15.67	3	Vertical	38	1.07
2452MHz	Pass	PK	2.4548G	94.13	Inf	-Inf	3	Vertical	38	1.07
2452MHz	Pass	PK	2.4835G	61.29	74.00	-12.71	3	Vertical	38	1.07
2452MHz	Pass	AV	2.39G	47.12	54.00	-6.88	3	Horizontal	360	1.00
2452MHz	Pass	AV	2.4532G	95.75	Inf	-Inf	3	Horizontal	360	1.00
2452MHz	Pass	AV	2.4835G	53.89	54.00	-0.11	3	Horizontal	360	1.00
2452MHz	Pass	PK	2.39G	59.84	74.00	-14.16	3	Horizontal	360	1.00
2452MHz	Pass	PK	2.4548G	105.08	Inf	-Inf	3	Horizontal	360	1.00
2452MHz	Pass	PK	2.486G	71.60	74.00	-2.40	3	Horizontal	360	1.00
2452MHz	Pass	AV	4.90567G	32.82	54.00	-21.18	3	Vertical	0	1.50
2452MHz	Pass	AV	7.35404G	38.78	54.00	-15.22	3	Vertical	360	1.50
2452MHz	Pass	AV	12.25955G	42.31	54.00	-11.69	3	Vertical	79	1.50
2452MHz	Pass	PK	4.90267G	45.75	74.00	-28.25	3	Vertical	0	1.50
2452MHz	Pass	PK	7.35444G	52.03	74.00	-21.97	3	Vertical	360	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2452MHz	Pass	PK	12.25875G	54.88	74.00	-19.12	3	Vertical	79	1.50
2452MHz	Pass	AV	4.90487G	32.76	54.00	-21.24	3	Horizontal	308	1.50
2452MHz	Pass	AV	7.35775G	39.16	54.00	-14.84	3	Horizontal	0	1.50
2452MHz	Pass	AV	12.25825G	42.31	54.00	-11.69	3	Horizontal	31	2.61
2452MHz	Pass	PK	4.90316G	45.51	74.00	-28.49	3	Horizontal	308	1.50
2452MHz	Pass	PK	7.3535G	51.62	74.00	-22.38	3	Horizontal	0	1.50
2452MHz	Pass	PK	12.26029G	54.99	74.00	-19.01	3	Horizontal	31	2.61

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

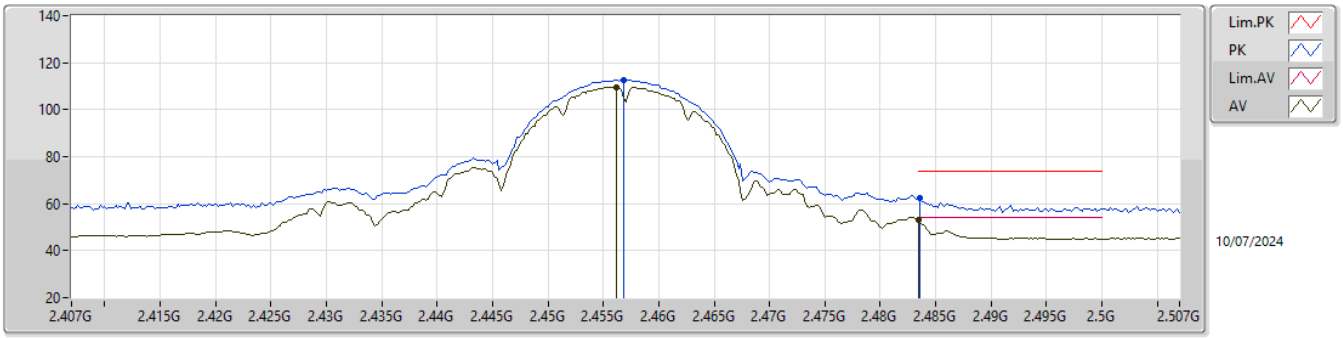
2457MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.4562G	98.88	Inf	-Inf	33.10	3	Vertical	29	1.05	65.78	27.64	5.46	-
AV	2.4835G	46.33	54.00	-7.67	33.30	3	Vertical	29	1.05	13.03	27.80	5.50	-
PK	2.457G	101.96	Inf	-Inf	33.10	3	Vertical	29	1.05	68.86	27.63	5.47	-
PK	2.4948G	59.00	74.00	-15.00	33.31	3	Vertical	29	1.05	25.69	27.80	5.51	-

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

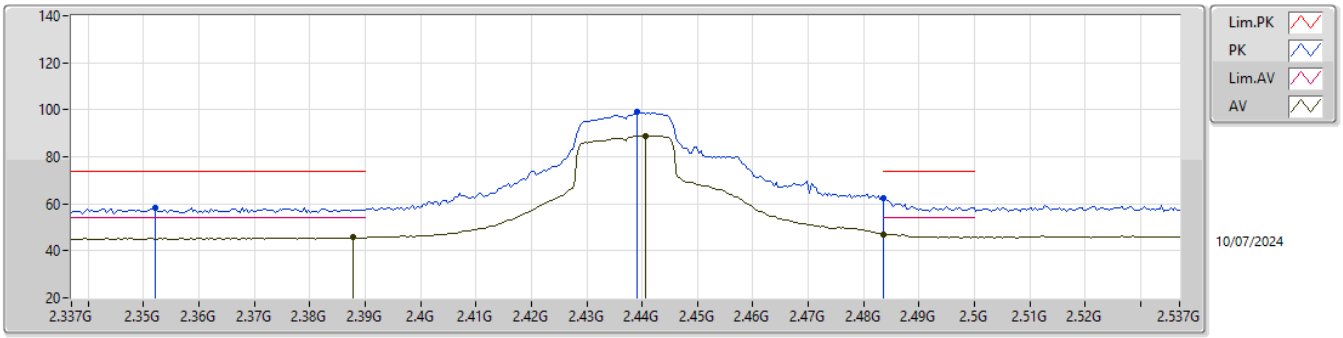
2457MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.4562G	109.69	Inf	-Inf	33.10	3	Horizontal	360	1.50	76.59	27.64	5.46	-
AV	2.4835G	52.92	54.00	-1.08	33.30	3	Horizontal	360	1.50	19.62	27.80	5.50	-
PK	2.4568G	112.78	Inf	-Inf	33.10	3	Horizontal	360	1.50	79.68	27.63	5.47	-
PK	2.4836G	62.22	74.00	-11.78	33.30	3	Horizontal	360	1.50	28.92	27.80	5.50	-

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

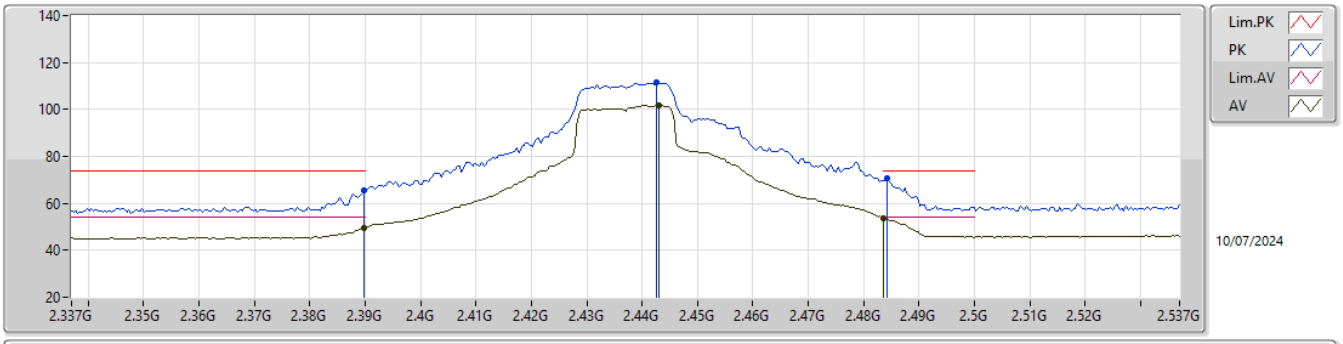
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.3878G	45.68	54.00	-8.32	32.97	3	Vertical	30	1.22	12.71	27.58	5.39	-
AV	2.4406G	89.02	Inf	-Inf	33.15	3	Vertical	30	1.22	55.87	27.70	5.45	-
AV	2.4835G	47.14	54.00	-6.86	33.30	3	Vertical	30	1.22	13.84	27.80	5.50	-
PK	2.3522G	58.27	74.00	-15.73	32.75	3	Vertical	30	1.22	25.52	27.40	5.35	-
PK	2.439G	99.05	Inf	-Inf	33.15	3	Vertical	30	1.22	65.90	27.71	5.44	-
PK	2.4835G	62.34	74.00	-11.66	33.30	3	Vertical	30	1.22	29.04	27.80	5.50	-

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

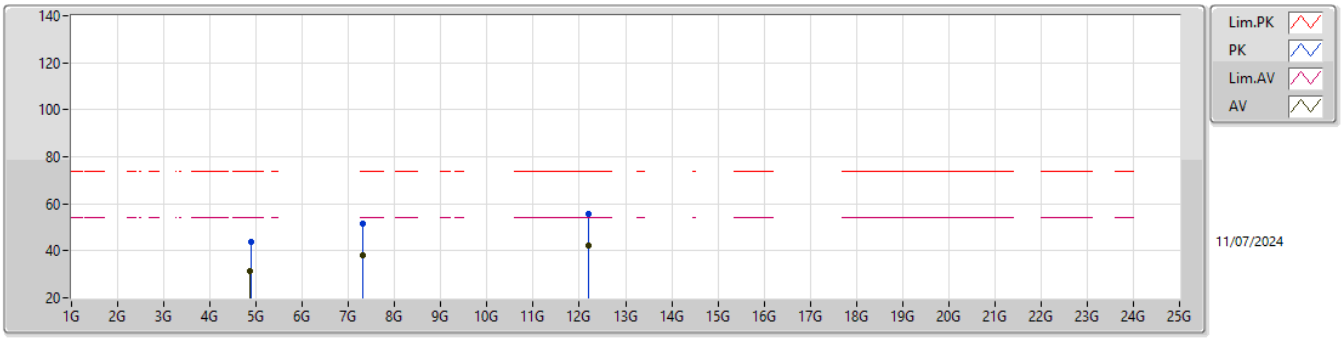
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	49.39	54.00	-4.61	32.99	3	Horizontal	357	1.00	16.40	27.60	5.39	-
AV	2.443G	101.53	Inf	-Inf	33.15	3	Horizontal	357	1.00	68.38	27.70	5.45	-
AV	2.4835G	53.63	54.00	-0.37	33.30	3	Horizontal	357	1.00	20.33	27.80	5.50	-
PK	2.3898G	65.39	74.00	-8.61	32.99	3	Horizontal	357	1.00	32.40	27.60	5.39	-
PK	2.4426G	111.45	Inf	-Inf	33.15	3	Horizontal	357	1.00	78.30	27.70	5.45	-
PK	2.4842G	70.78	74.00	-3.22	33.30	3	Horizontal	357	1.00	37.48	27.80	5.50	-

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

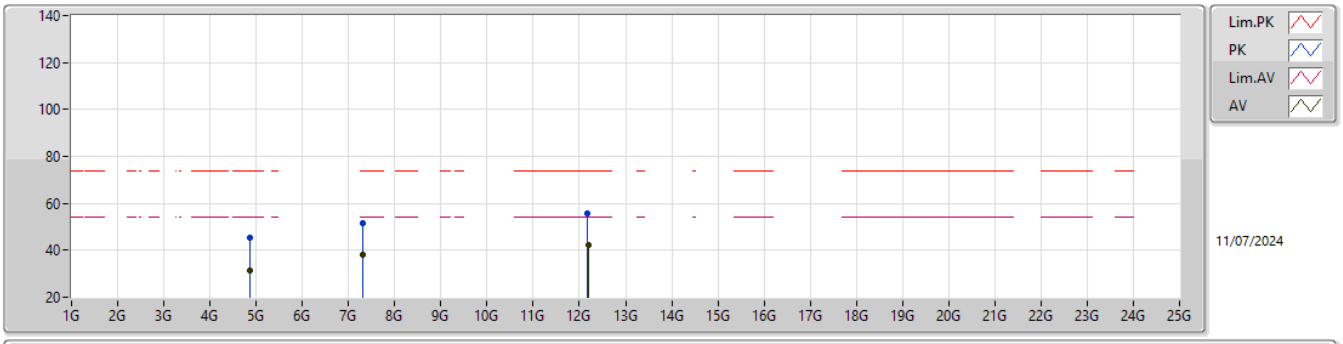
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.86876G	31.28	54.00	-22.72	2.98	3	Vertical	255	1.69	28.30	32.80	7.53	37.35
AV	7.30014G	38.13	54.00	-15.87	10.24	3	Vertical	159	1.50	27.89	37.30	9.49	36.55
AV	12.19724G	42.19	54.00	-11.81	12.27	3	Vertical	327	1.50	29.92	39.39	10.92	38.04
PK	4.88212G	43.72	74.00	-30.28	3.00	3	Vertical	255	1.69	40.72	32.80	7.53	37.33
PK	7.31274G	51.71	74.00	-22.29	10.20	3	Vertical	159	1.50	41.51	37.25	9.49	36.54
PK	12.19226G	55.65	74.00	-18.35	12.25	3	Vertical	327	1.50	43.40	39.38	10.91	38.04

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

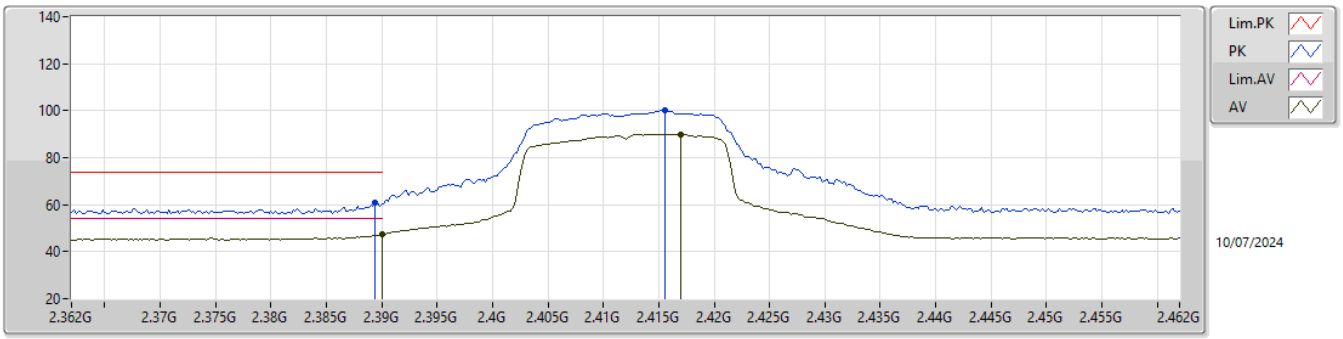
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.8654G	31.39	54.00	-22.61	2.98	3	Horizontal	330	1.82	28.41	32.80	7.53	37.35
AV	7.3005G	38.03	54.00	-15.97	10.24	3	Horizontal	39	1.99	27.79	37.30	9.49	36.55
AV	12.19346G	42.25	54.00	-11.75	12.26	3	Horizontal	241	2.91	29.99	39.39	10.91	38.04
PK	4.86948G	45.10	74.00	-28.90	2.98	3	Horizontal	330	1.82	42.12	32.80	7.53	37.35
PK	7.31766G	51.51	74.00	-22.49	10.18	3	Horizontal	39	1.99	41.33	37.23	9.49	36.54
PK	12.17456G	55.67	74.00	-18.33	12.20	3	Horizontal	241	2.91	43.47	39.35	10.88	38.03

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

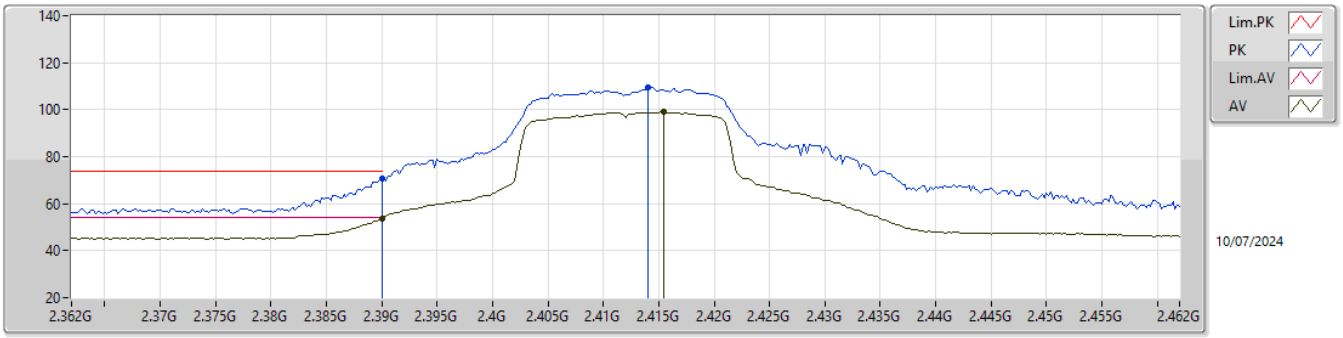
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	47.31	54.00	-6.69	32.99	3	Vertical	5	2.85	14.32	27.60	5.39	-
AV	2.417G	90.08	Inf	-Inf	33.12	3	Vertical	5	2.85	56.96	27.70	5.42	-
PK	2.3894G	61.00	74.00	-13.00	32.98	3	Vertical	5	2.85	28.02	27.59	5.39	-
PK	2.4156G	100.00	Inf	-Inf	33.12	3	Vertical	5	2.85	66.88	27.70	5.42	-

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

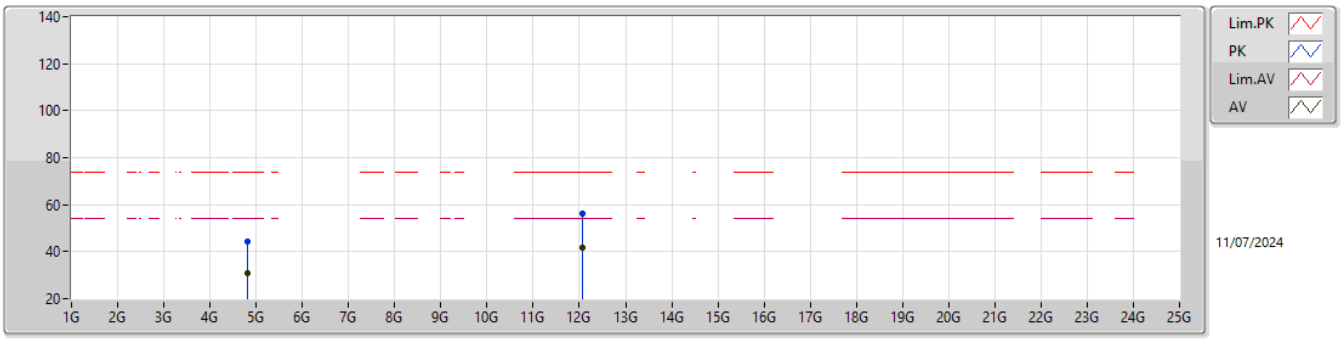
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	53.86	54.00	-0.14	32.99	3	Horizontal	360	1.25	20.87	27.60	5.39	-
AV	2.4154G	98.98	Inf	-Inf	33.12	3	Horizontal	360	1.25	65.86	27.70	5.42	-
PK	2.39G	70.45	74.00	-3.55	32.99	3	Horizontal	360	1.25	37.46	27.60	5.39	-
PK	2.414G	109.69	Inf	-Inf	33.12	3	Horizontal	360	1.25	76.57	27.70	5.42	-

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

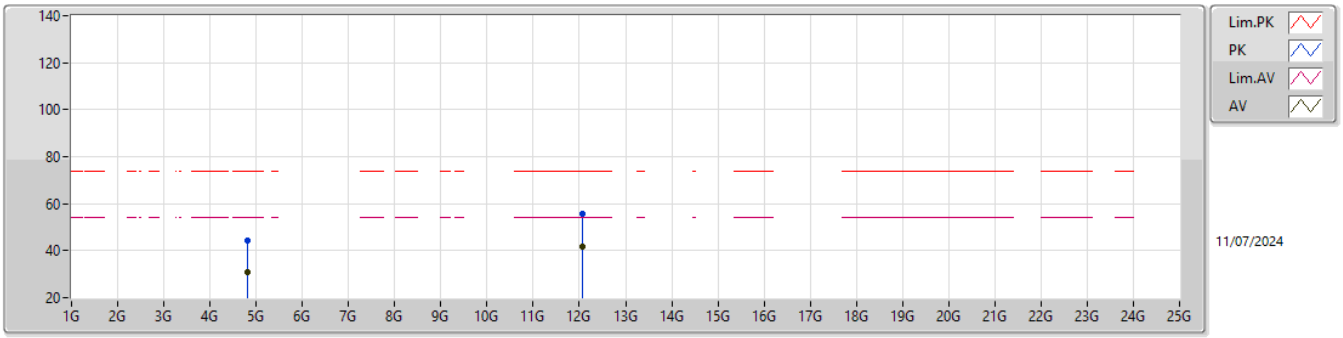
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.8224G	30.62	54.00	-23.38	2.75	3	Vertical	133	1.25	27.87	32.63	7.52	37.40
AV	12.05803G	41.84	54.00	-12.16	12.02	3	Vertical	257	1.50	29.82	39.30	10.69	37.97
PK	4.82452G	44.48	74.00	-29.52	2.77	3	Vertical	133	1.25	41.71	32.65	7.52	37.40
PK	12.06136G	56.11	74.00	-17.89	12.02	3	Vertical	257	1.50	44.09	39.30	10.69	37.97

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

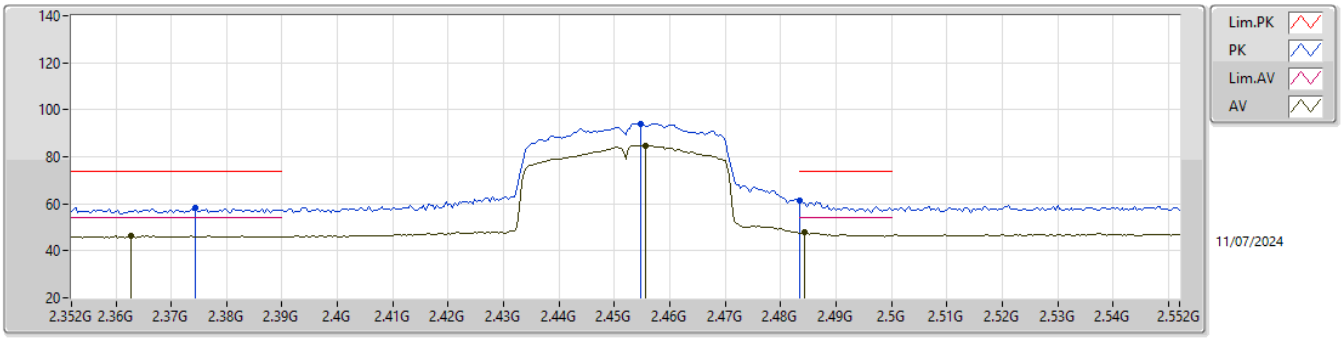
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.82261G	30.63	54.00	-23.37	2.76	3	Horizontal	299	1.64	27.87	32.64	7.52	37.40
AV	12.05936G	41.97	54.00	-12.03	12.02	3	Horizontal	24	1.50	29.95	39.30	10.69	37.97
PK	4.82255G	44.56	74.00	-29.44	2.76	3	Horizontal	299	1.64	41.80	32.64	7.52	37.40
PK	12.05895G	55.47	74.00	-18.53	12.02	3	Horizontal	24	1.50	43.45	39.30	10.69	37.97

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

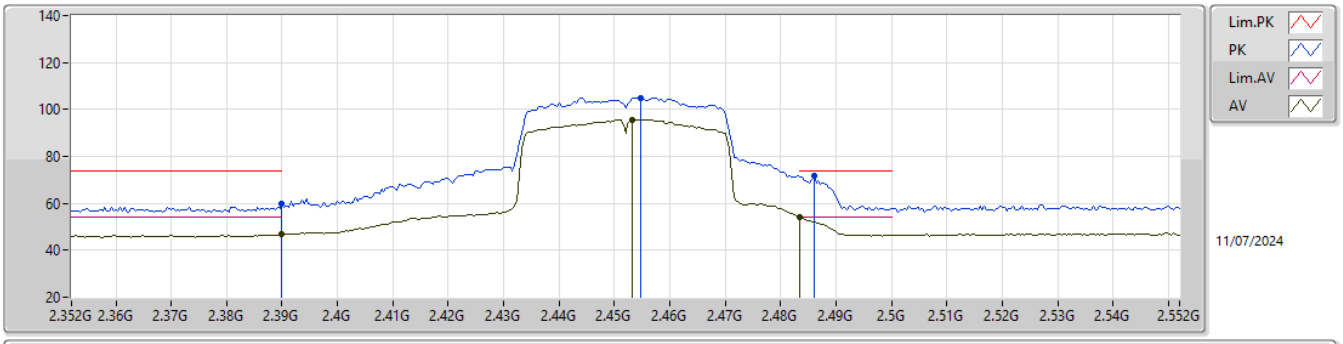
2452MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.3628G	46.45	54.00	-7.55	32.79	3	Vertical	38	1.07	13.66	27.43	5.36	-
AV	2.4556G	84.88	Inf	-Inf	33.10	3	Vertical	38	1.07	51.78	27.64	5.46	-
AV	2.4844G	47.81	54.00	-6.19	33.30	3	Vertical	38	1.07	14.51	27.80	5.50	-
PK	2.3744G	58.33	74.00	-15.67	32.87	3	Vertical	38	1.07	25.46	27.50	5.37	-
PK	2.4548G	94.13	Inf	-Inf	33.11	3	Vertical	38	1.07	61.02	27.65	5.46	-
PK	2.4835G	61.29	74.00	-12.71	33.30	3	Vertical	38	1.07	27.99	27.80	5.50	-

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

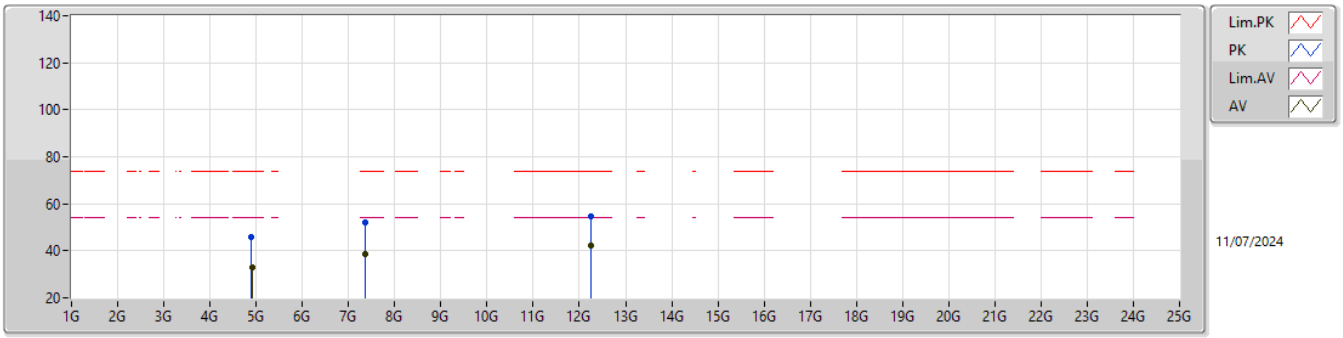
2452MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	47.12	54.00	-6.88	32.99	3	Horizontal	360	1.00	14.13	27.60	5.39	-
AV	2.4532G	95.75	Inf	-Inf	33.13	3	Horizontal	360	1.00	62.62	27.67	5.46	-
AV	2.4835G	53.89	54.00	-0.11	33.30	3	Horizontal	360	1.00	20.59	27.80	5.50	-
PK	2.39G	59.84	74.00	-14.16	32.99	3	Horizontal	360	1.00	26.85	27.60	5.39	-
PK	2.4548G	105.08	Inf	-Inf	33.11	3	Horizontal	360	1.00	71.97	27.65	5.46	-
PK	2.486G	71.60	74.00	-2.40	33.30	3	Horizontal	360	1.00	38.30	27.80	5.50	-

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

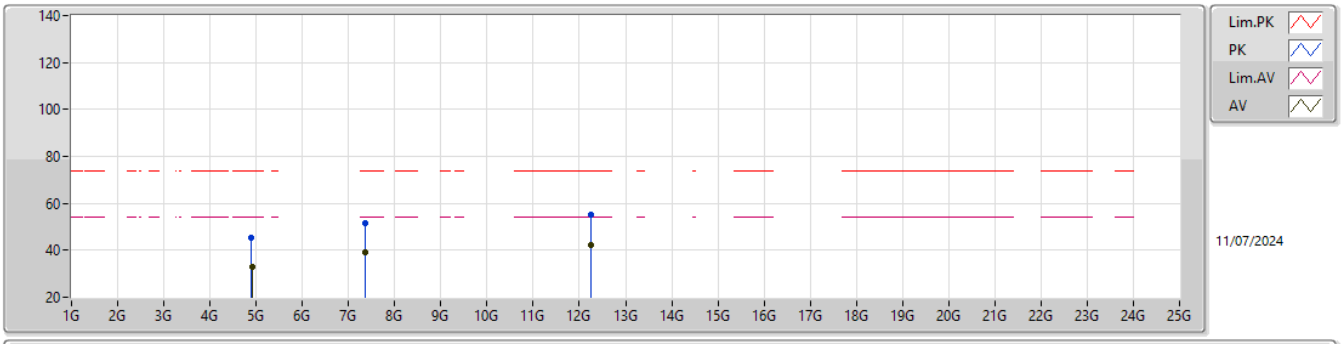
2452MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.90567G	32.82	54.00	-21.18	3.06	3	Vertical	0	1.50	29.76	32.83	7.54	37.31
AV	7.35404G	38.78	54.00	-15.22	10.05	3	Vertical	360	1.50	28.73	37.08	9.50	36.53
AV	12.25955G	42.31	54.00	-11.69	12.23	3	Vertical	79	1.50	30.08	39.28	11.02	38.07
PK	4.90267G	45.75	74.00	-28.25	3.05	3	Vertical	0	1.50	42.70	32.82	7.54	37.31
PK	7.35444G	52.03	74.00	-21.97	10.04	3	Vertical	360	1.50	41.99	37.07	9.50	36.53
PK	12.25875G	54.88	74.00	-19.12	12.23	3	Vertical	79	1.50	42.65	39.28	11.02	38.07

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

2452MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.90487G	32.76	54.00	-21.24	3.06	3	Horizontal	308	1.50	29.70	32.83	7.54	37.31
AV	7.35775G	39.16	54.00	-14.84	10.02	3	Horizontal	0	1.50	29.14	37.05	9.50	36.53
AV	12.25825G	42.31	54.00	-11.69	12.23	3	Horizontal	31	2.61	30.08	39.28	11.02	38.07
PK	4.90316G	45.51	74.00	-28.49	3.05	3	Horizontal	308	1.50	42.46	32.82	7.54	37.31
PK	7.3535G	51.62	74.00	-22.38	10.05	3	Horizontal	0	1.50	41.57	37.08	9.50	36.53
PK	12.26029G	54.99	74.00	-19.01	12.22	3	Horizontal	31	2.61	42.77	39.28	11.02	38.08