FCC Radio Test Report

FCC ID	:	**YL6VDB750**
Equipment	:	**Video Doorbell**
Brand Name	:	**Alarm.com**
Model Name	:	**ADC-VDB750**
Applicant	:	**Alarm.com Incorporated** **8281 Greensboro Drive** **Suite 100 , Tysons, VA 22102 , USA**
Manufacturer	:	**Chicony Electronics Co. Ltd** **36F No.69, Sec. 2, Guangfu Rd., Sanchong Dist.,** **New Taipei City 24158, Taiwan, R.O.C**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Jun. 30, 2022, and testing was started from Jul. 14, 2022 and completed on Jul. 29, 2022. 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.

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
FR262244AC	01	Initial issue of report	Sep. 12, 2022
FR262244AC	02	Revised typo (This report is the latest version replacing for the report issued on Sep. 12, 2022).	Dec. 07, 2022

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: Ryan Hsiao

Report Producer: Amber Chiu

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 (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX

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
1	2J	2JF0602P	PCB antenna	I-PEX
2	2J	2JF0702P	PCB antenna	I-PEX

Ant.	Port	Gain (dBi)	
		2.4G	5G
1	1	1.5	1.5
2	2	0.6	1.5

Directional Gain (dBi)		
Test Item	2.4G	5G
Power	1.5	1.5
PSD	4.07	4.51

Note 1: The EUT has two antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

Note 2: Directional gain information

	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From Transformer			
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)_2TX	0.991	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g_Nss1,(6Mbps)_2TX	0.936	0.29	1.433m	1k
802.11n HT20_Nss1,(MCS0)_2TX	0.931	0.31	1.34m	1k

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

1.2 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013

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

- KDB 558074 D01 v05r02
- KDB 662911 D01 v02r01
- KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab.：Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua	**ADD:** No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
(TAF: 3785**)**	**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	21.6~22.4°C / 53~57%	18/Jul/2022
RF Conducted	TH01-HY	Luby Hsu	20.1~26.9°C / 50~60%	21/Jul/2022~22/Jul/2022
Radiated	03CH03-HY	Billy Wang	23.5~24.1°C / 50~60%	14/Jul/2022~29/Jul/2022
☐ Wen 33rd.St.	**ADD:** No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
(TAF: 3785**)**	**TEL:** 886-3-318-0787		**FAX:** 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

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%
Receiver Radiated Unwanted Emissions	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	DOSV6.1

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	88
2437MHz	88
2462MHz	88
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	63
2417MHz	88
2437MHz	88
2457MHz	63
2462MHz	59
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	50
2417MHz	88
2437MHz	88
2457MHz	88
2462MHz	49

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

2.3 Support Equipment

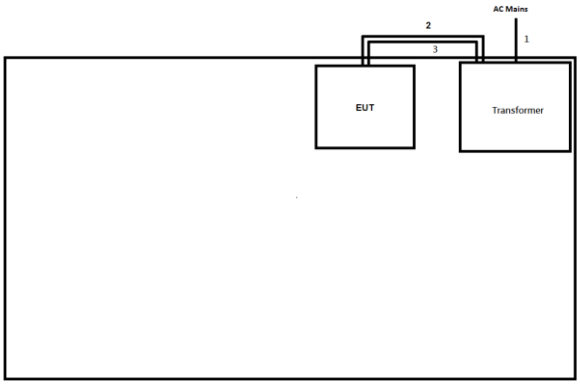
Support Equipment – AC Conduction					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Transformer	NUTONE	C905	-	Provided by Customer

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	Transformer	NUTONE	C905	-	Provided by Customer

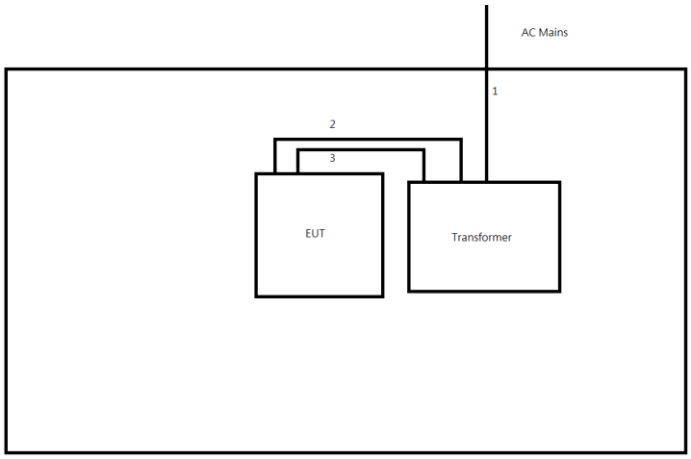
2.4 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	0.6	-
3	DC Power cable	No	0.6	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	0.6	-
3	DC Power cable	No	0.6	-

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

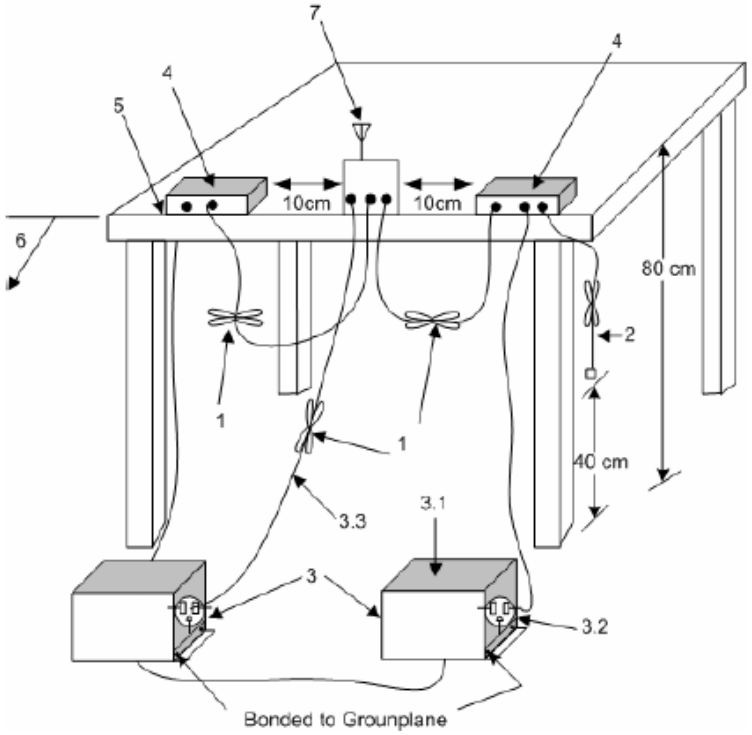
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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.

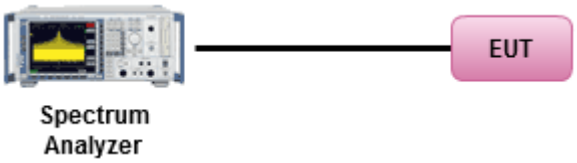
3.2.2 Measuring Instruments

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} ≤ 6 dBi, then P_{Out} ≤ 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 + 8dB dBm	
e.i.r.p. Power Limit:			
▪ 2400-2483.5 MHz Band			
	▪ Point-to-multipoint systems (P2M): P_{eirp} ≤ 36 dBm (4 W)		
	▪ Point-to-point systems (P2P): P_{eirp} ≤ MAX(36, [P_{Out} + G_{TX}]) dBm		
	▪ Smart antenna system (SAS)		
		- Single beam: P_{eirp} ≤ MAX(36, P_{Out} + G_{TX}) dBm	
		- Overlap beam: P_{eirp} ≤ MAX(36, P_{Out} + G_{TX}) dBm	
		- Aggregate power on all beams: P_{eirp} ≤ 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

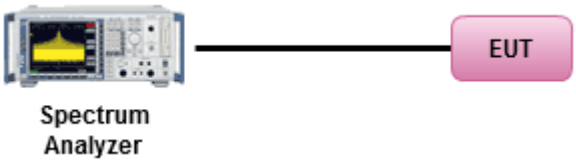
3.4.2 Measuring Instruments

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.	

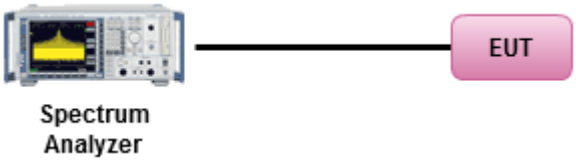
3.5.2 Measuring Instruments

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.

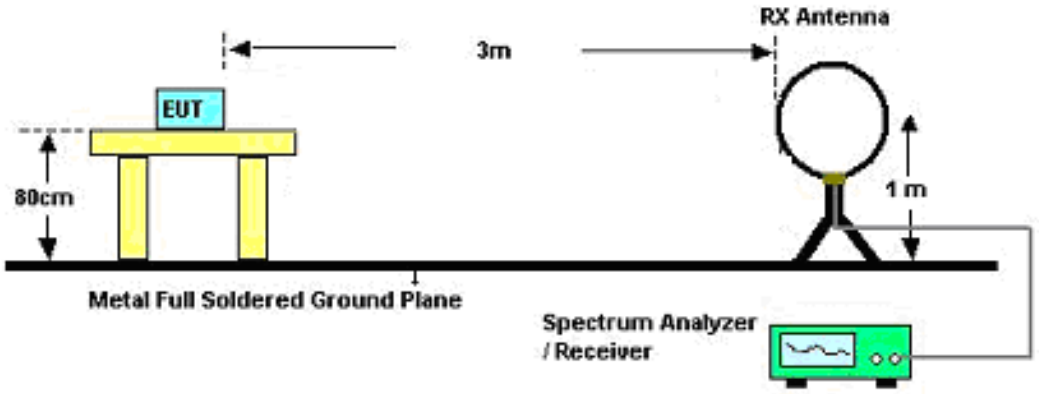
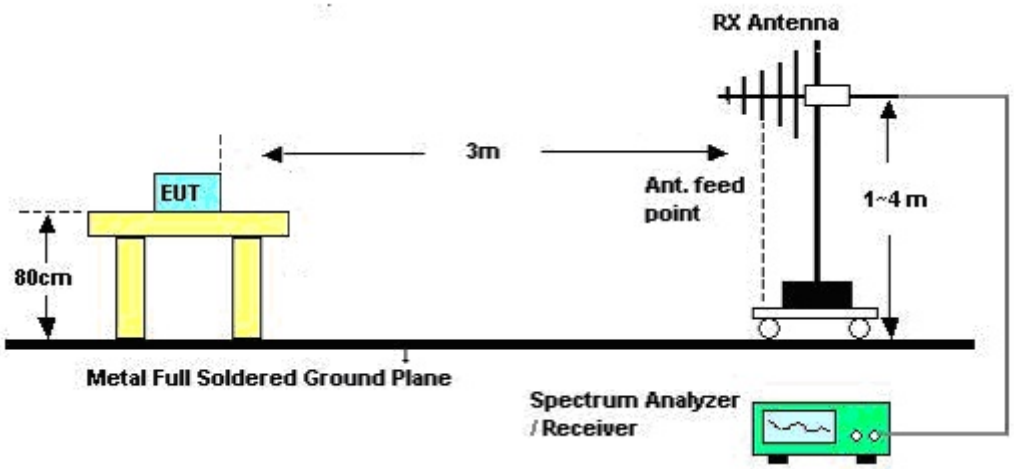
3.6.3 Test Procedures

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.

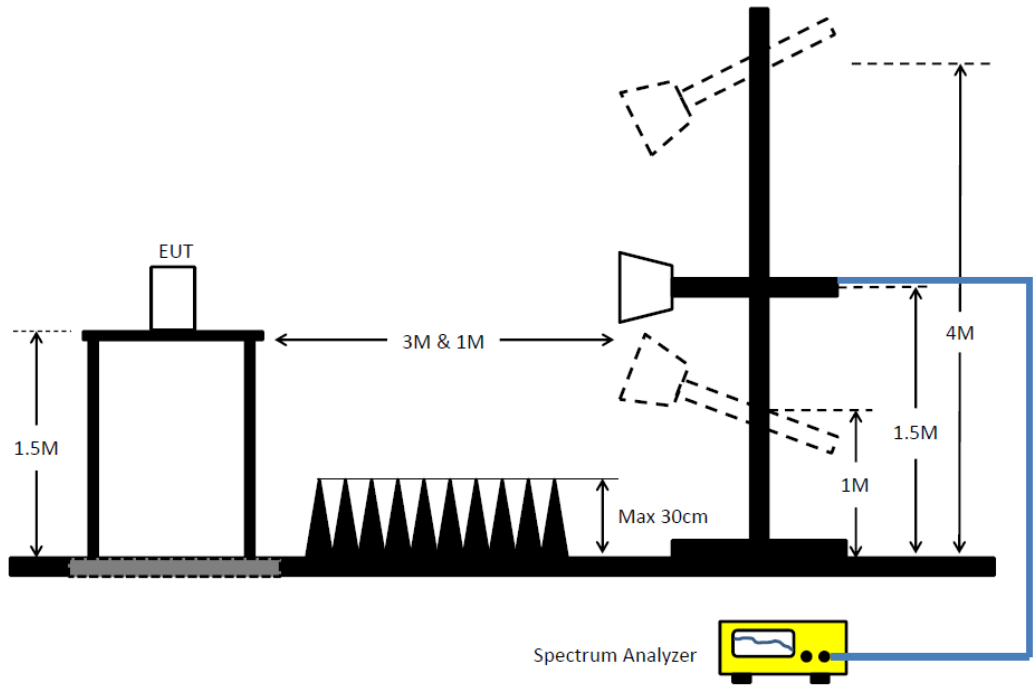
3.6.4 Measurement Results Calculation

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	R&S	ESR3	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	18/Feb/2022	17/Feb/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	26/Oct/2021	25/Oct/2022
Software	Sporton	SENSE-EMI	V5.1014	-	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	101013	10Hz~40GHz	01/Apr/2022	31/Mar/2023
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2021	20/Oct/2022
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	21/Feb/2022	20/Feb/2023
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	21/Feb/2022	20/Feb/2023
SENSE-15247_DTS	Sporton	V5.10.8.3	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	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	03/Aug/2021	02/Aug/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	03/Aug/2021	02/Aug/2022
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	12/Oct/2021	11/Oct/2022
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	08/Apr/2022	07/Apr/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz ~18GHz	14/Sep/2021	13/Sep/2022
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	17/Oct/2021	16/Oct/2022
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	13/Jun/2022	12/Jun/2023
RF Cable-R03m	Jye Bao	RG142	MY37335/4+CB021-1+CB021-2	30MHz~1GHz	22/Mar/2022	21/Mar/2023
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	SN MY38596/4+SN 804300/4	1GHz~40GHz	28/Jul/2021	27/Jul/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	08/Mar/2022	07/Mar/2023
Microwave Preamplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	15/Jul/2021	14/Jul/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	13/May/2022	12/May/2023
SENSE-15247_DTS	Sporton	NA	NA	2.4G	NA	NA

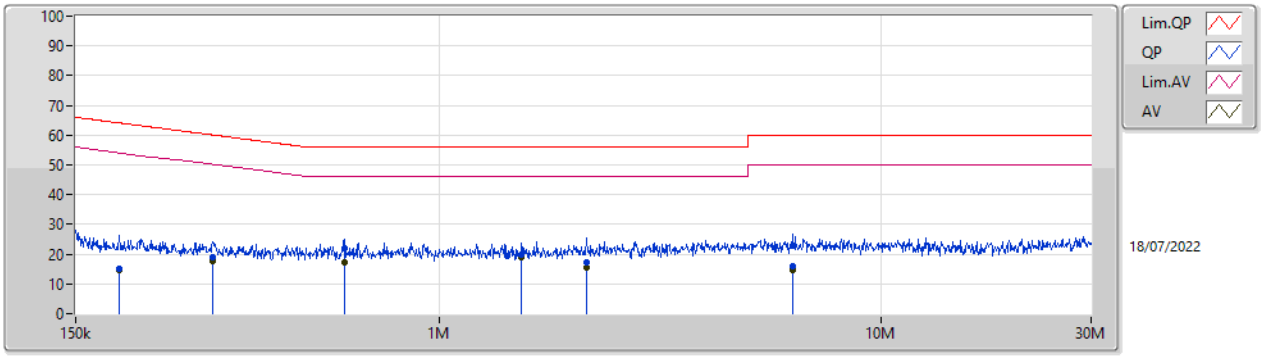
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	1.538M	18.89	46.00	-27.11	Neutral

Result

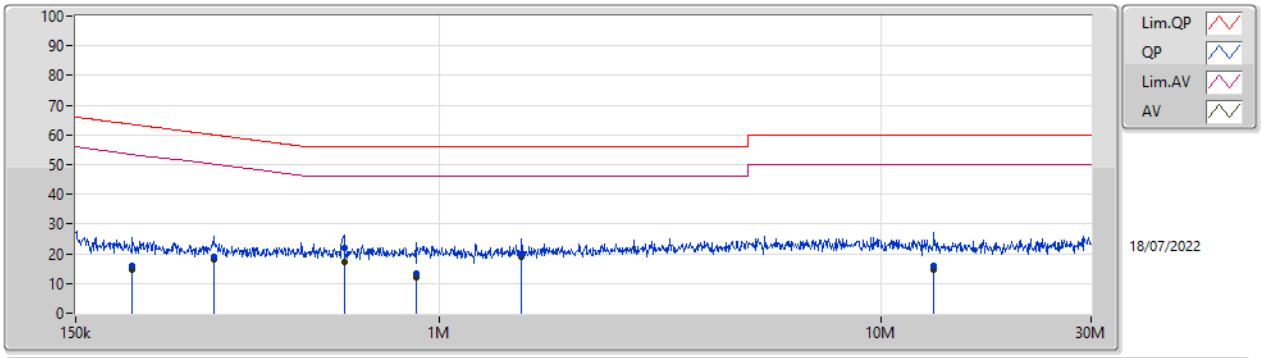
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	188.327k	15.08	64.11	-49.03	Line	-
Mode 1	Pass	AV	188.327k	14.50	54.11	-39.61	Line	-
Mode 1	Pass	QP	306.497k	18.97	60.07	-41.10	Line	-
Mode 1	Pass	AV	306.497k	17.69	50.07	-32.38	Line	-
Mode 1	Pass	QP	609.01k	21.98	56.00	-34.02	Line	-
Mode 1	Pass	AV	609.01k	17.31	46.00	-28.69	Line	-
Mode 1	Pass	QP	1.538M	19.80	56.00	-36.20	Line	-
Mode 1	Pass	AV	1.538M	18.76	46.00	-27.24	Line	-
Mode 1	Pass	QP	2.15M	17.16	56.00	-38.84	Line	-
Mode 1	Pass	AV	2.15M	15.57	46.00	-30.43	Line	-
Mode 1	Pass	QP	6.318M	15.83	60.00	-44.17	Line	-
Mode 1	Pass	AV	6.318M	14.75	50.00	-35.25	Line	-
Mode 1	Pass	QP	201.551k	16.10	63.55	-47.45	Neutral	-
Mode 1	Pass	AV	201.551k	14.53	53.55	-39.02	Neutral	-
Mode 1	Pass	QP	307.723k	19.16	60.03	-40.87	Neutral	-
Mode 1	Pass	AV	307.723k	18.12	50.03	-31.91	Neutral	-
Mode 1	Pass	QP	609.01k	21.80	56.00	-34.20	Neutral	-
Mode 1	Pass	AV	609.01k	17.28	46.00	-28.72	Neutral	-
Mode 1	Pass	QP	889.871k	13.45	56.00	-42.55	Neutral	-
Mode 1	Pass	AV	889.871k	12.09	46.00	-33.91	Neutral	-
Mode 1	Pass	QP	1.538M	19.95	56.00	-36.05	Neutral	-
Mode 1	Pass	AV	1.538M	18.89	46.00	-27.11	Neutral	-
Mode 1	Pass	QP	13.223M	16.08	60.00	-43.92	Neutral	-
Mode 1	Pass	AV	13.223M	14.76	50.00	-35.24	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	188.327k	15.08	64.11	-49.03	19.63	Line	-	-4.55	9.69	0.03	9.91
AV	188.327k	14.50	54.11	-39.61	19.63	Line	-	-5.13	9.69	0.03	9.91
QP	306.497k	18.97	60.07	-41.10	19.63	Line	-	-0.66	9.68	0.04	9.91
AV	306.497k	17.69	50.07	-32.38	19.63	Line	-	-1.94	9.68	0.04	9.91
QP	609.01k	21.98	56.00	-34.02	19.63	Line	-	2.35	9.68	0.04	9.91
AV	609.01k	17.31	46.00	-28.69	19.63	Line	-	-2.32	9.68	0.04	9.91
QP	1.538M	19.80	56.00	-36.20	19.68	Line	-	0.12	9.69	0.07	9.92
AV	1.538M	18.76	46.00	-27.24	19.68	Line	-	-0.92	9.69	0.07	9.92
QP	2.15M	17.16	56.00	-38.84	19.71	Line	-	-2.55	9.70	0.09	9.92
AV	2.15M	15.57	46.00	-30.43	19.71	Line	-	-4.14	9.70	0.09	9.92
QP	6.318M	15.83	60.00	-44.17	19.84	Line	-	-4.01	9.76	0.15	9.93
AV	6.318M	14.75	50.00	-35.25	19.84	Line	-	-5.09	9.76	0.15	9.93

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	201.551k	16.10	63.55	-47.45	19.66	Neutral	-	-3.56	9.72	0.03	9.91
AV	201.551k	14.53	53.55	-39.02	19.66	Neutral	-	-5.13	9.72	0.03	9.91
QP	307.723k	19.16	60.03	-40.87	19.67	Neutral	-	-0.51	9.72	0.04	9.91
AV	307.723k	18.12	50.03	-31.91	19.67	Neutral	-	-1.55	9.72	0.04	9.91
QP	609.01k	21.80	56.00	-34.20	19.67	Neutral	-	2.13	9.72	0.04	9.91
AV	609.01k	17.28	46.00	-28.72	19.67	Neutral	-	-2.39	9.72	0.04	9.91
QP	889.871k	13.45	56.00	-42.55	19.70	Neutral	-	-6.25	9.73	0.05	9.92
AV	889.871k	12.09	46.00	-33.91	19.70	Neutral	-	-7.61	9.73	0.05	9.92
QP	1.538M	19.95	56.00	-36.05	19.73	Neutral	-	0.22	9.74	0.07	9.92
AV	1.538M	18.89	46.00	-27.11	19.73	Neutral	-	-0.84	9.74	0.07	9.92
QP	13.223M	16.08	60.00	-43.92	20.08	Neutral	-	-4.00	9.93	0.22	9.93
AV	13.223M	14.76	50.00	-35.24	20.08	Neutral	-	-5.32	9.93	0.22	9.93

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)_2TX	8.55M	12.4M	12M4G1D	7.075M	10.775M
802.11g_Nss1,(6Mbps)_2TX	16.325M	18.05M	18M1D1D	16.3M	16.875M
802.11n HT20_Nss1,(MCS0)_2TX	17.575M	18.35M	18M4D1D	17.55M	17.925M

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

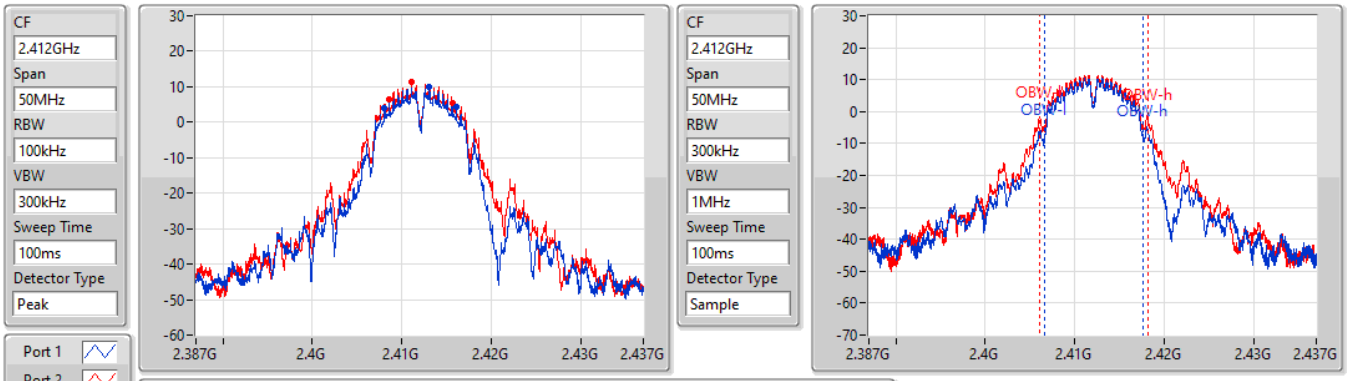
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	8.05M	10.925M	7.075M	12.15M
2437MHz	Pass	500k	7.525M	11.25M	8.55M	12.4M
2462MHz	Pass	500k	7.55M	10.775M	8.55M	12.175M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	17.125M	16.3M	16.875M
2437MHz	Pass	500k	16.3M	17.1M	16.3M	18.05M
2462MHz	Pass	500k	16.3M	16.925M	16.325M	16.875M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.55M	17.95M	17.55M	18M
2437MHz	Pass	500k	17.55M	18.1M	17.575M	18.35M
2462MHz	Pass	500k	17.55M	17.925M	17.575M	17.95M

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

802.11b_Nss1,(1Mbps)_2TX EBW

2412MHz

21/07/2022

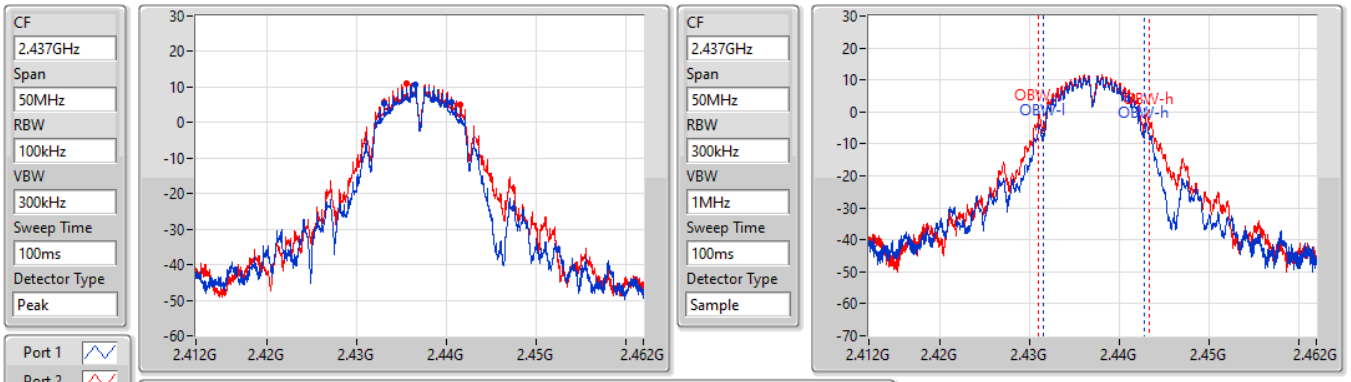


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.05M	2.408075G	2.416125G	10.925M	2.4067G	2.417625G	500k	1
7.075M	2.408575G	2.41565G	12.15M	2.40605G	2.4182G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2437MHz

21/07/2022

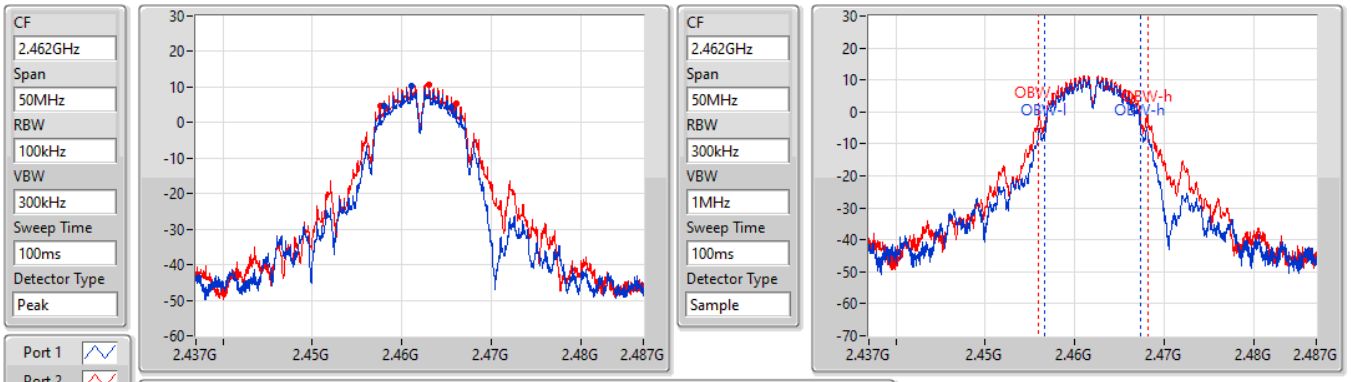


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.525M	2.43305G	2.440575G	11.25M	2.4315G	2.44275G	500k	1
8.55M	2.433025G	2.441575G	12.4M	2.430925G	2.443325G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2462MHz

21/07/2022

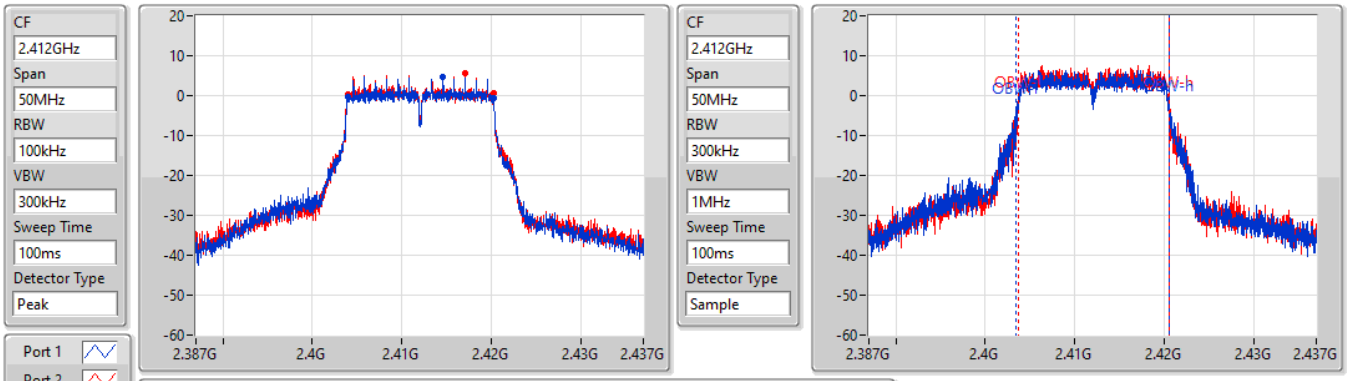


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.55M	2.45805G	2.4656G	10.775M	2.45665G	2.467425G	500k	1
8.55M	2.45755G	2.4661G	12.175M	2.456G	2.468175G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2412MHz

21/07/2022

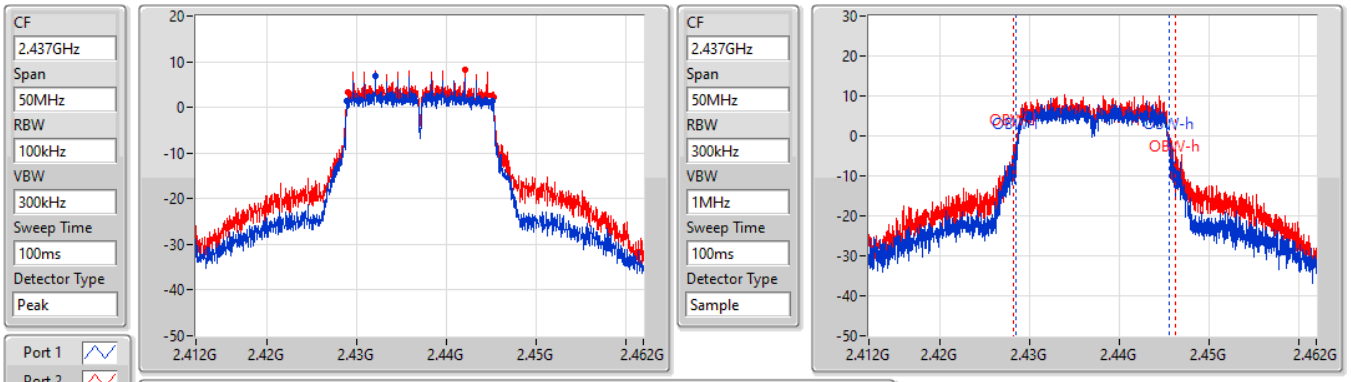


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.403925G	2.42025G	17.125M	2.4035G	2.420625G	500k	1
16.3M	2.403925G	2.420225G	16.875M	2.40365G	2.420525G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2437MHz

21/07/2022

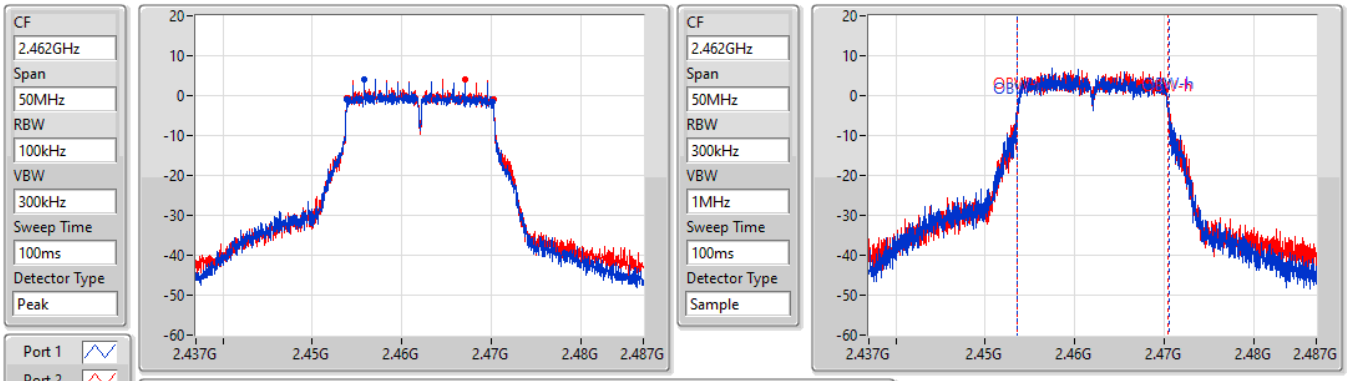


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.3M	2.4289G	2.4452G	17.1M	2.4285G	2.4456G	500k	1
16.3M	2.42895G	2.44525G	18.05M	2.428225G	2.446275G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2462MHz

21/07/2022

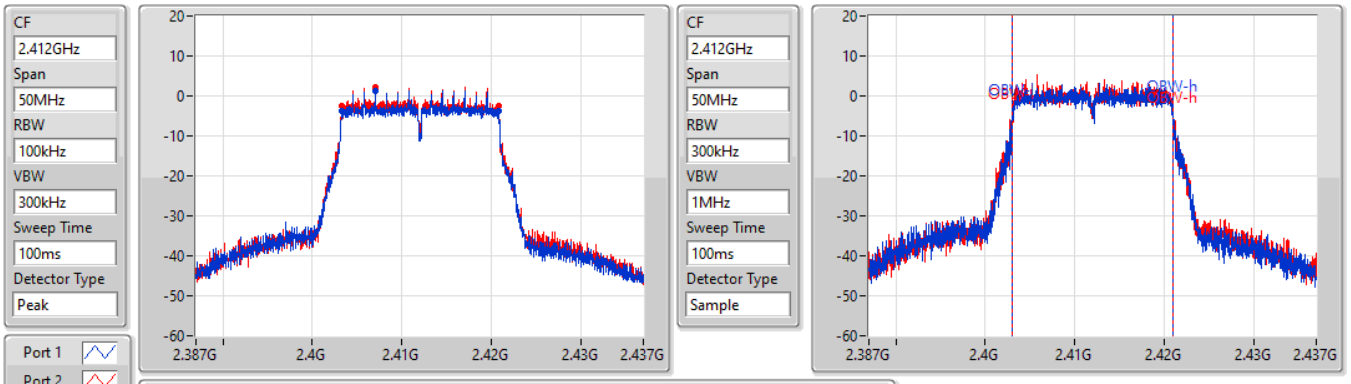


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.3M	2.4539G	2.4702G	16.925M	2.453575G	2.4705G	500k	1
16.325M	2.4539G	2.470225G	16.875M	2.4536G	2.470475G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX EBW

2412MHz

21/07/2022

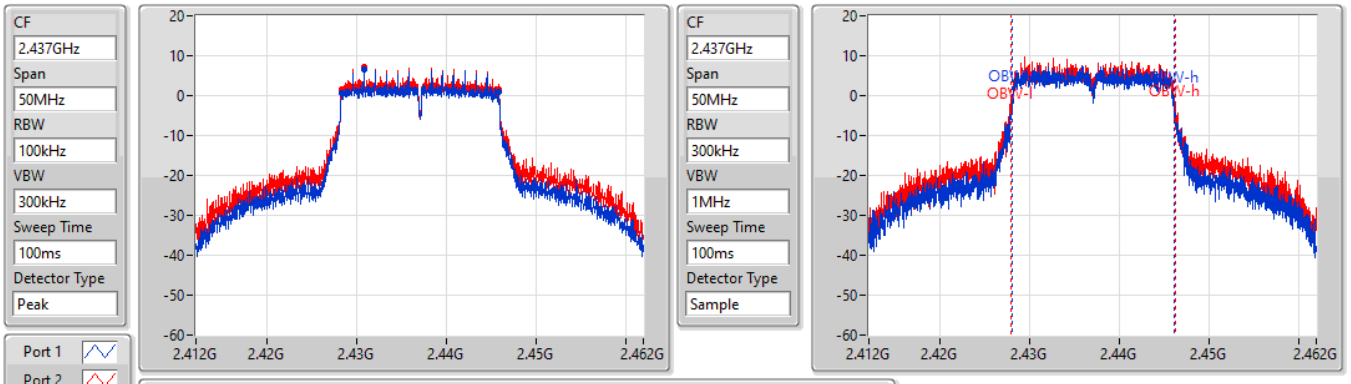


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	2.403275G	2.420825G	17.95M	2.40305G	2.421G	500k	1
17.55M	2.403275G	2.420825G	18M	2.403025G	2.421025G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX EBW

2437MHz

21/07/2022

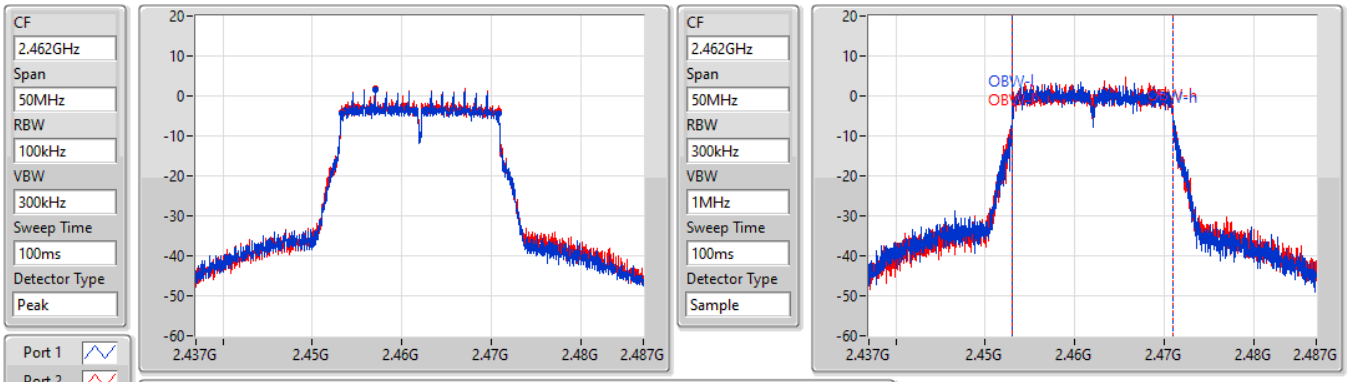


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	2.428275G	2.445825G	18.1M	2.428G	2.4461G	500k	1
17.575M	2.428275G	2.44585G	18.35M	2.427875G	2.446225G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX **EBW**

2462MHz

21/07/2022



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	2.45325G	2.4708G	17.925M	2.453075G	2.471G	500k	1
17.575M	2.45325G	2.470825G	17.95M	2.453025G	2.470975G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	22.50	0.17783
802.11g_Nss1,(6Mbps)_2TX	21.46	0.13996
802.11n HT20_Nss1,(MCS0)_2TX	20.38	0.10914

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.50	18.95	19.97	22.50	30.00
2437MHz	Pass	1.50	18.66	19.65	22.19	30.00
2462MHz	Pass	1.50	18.21	19.47	21.90	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.50	15.94	16.59	19.29	30.00
2417MHz	Pass	1.50	17.75	19.05	21.46	30.00
2437MHz	Pass	1.50	17.47	18.81	21.20	30.00
2457MHz	Pass	1.50	16.13	16.20	19.18	30.00
2462MHz	Pass	1.50	14.92	15.35	18.15	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.50	12.47	13.04	15.77	30.00
2417MHz	Pass	1.50	16.76	17.34	20.07	30.00
2437MHz	Pass	1.50	16.71	17.94	20.38	30.00
2457MHz	Pass	1.50	16.70	17.77	20.28	30.00
2462MHz	Pass	1.50	12.49	12.80	15.66	30.00

DG = Directional Gain; Port X = Port X output power

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-0.88
802.11g_Nss1,(6Mbps)_2TX	-4.10
802.11n HT20_Nss1,(MCS0)_2TX	-6.93

RBW = 3kHz;

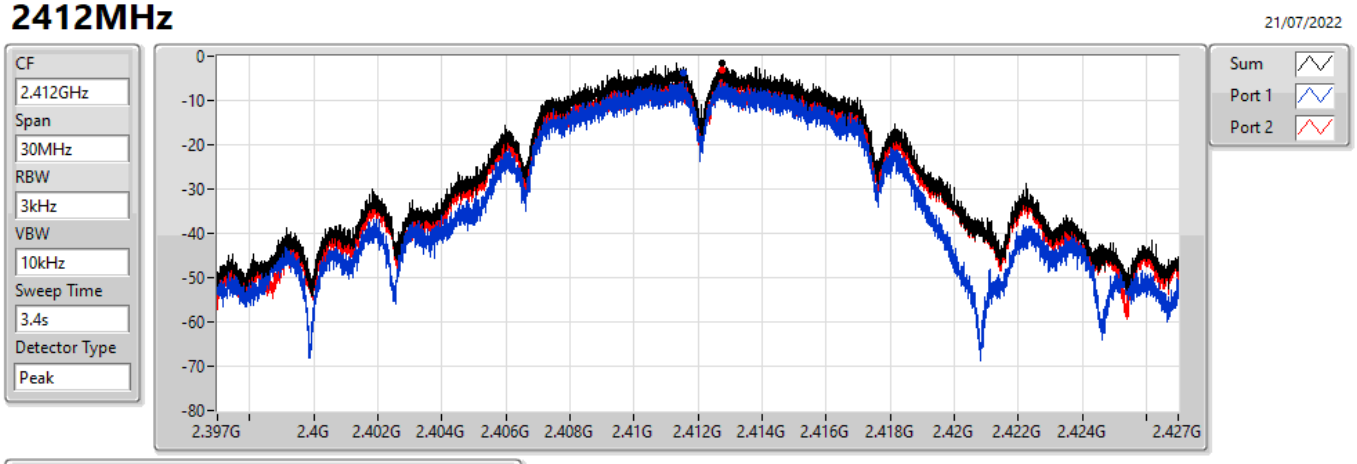
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.07	-3.87	-3.21	-1.56	8.00
2437MHz	Pass	4.07	-3.24	-2.53	-0.88	8.00
2462MHz	Pass	4.07	-3.39	-4.86	-1.94	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.07	-8.75	-8.45	-6.05	8.00
2437MHz	Pass	4.07	-7.31	-6.92	-4.10	8.00
2462MHz	Pass	4.07	-9.98	-9.84	-7.25	8.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.07	-12.64	-12.70	-11.50	8.00
2437MHz	Pass	4.07	-9.38	-8.49	-6.93	8.00
2462MHz	Pass	4.07	-13.48	-13.65	-11.41	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;

802.11b_Nss1,(1Mbps)_2TX PSD

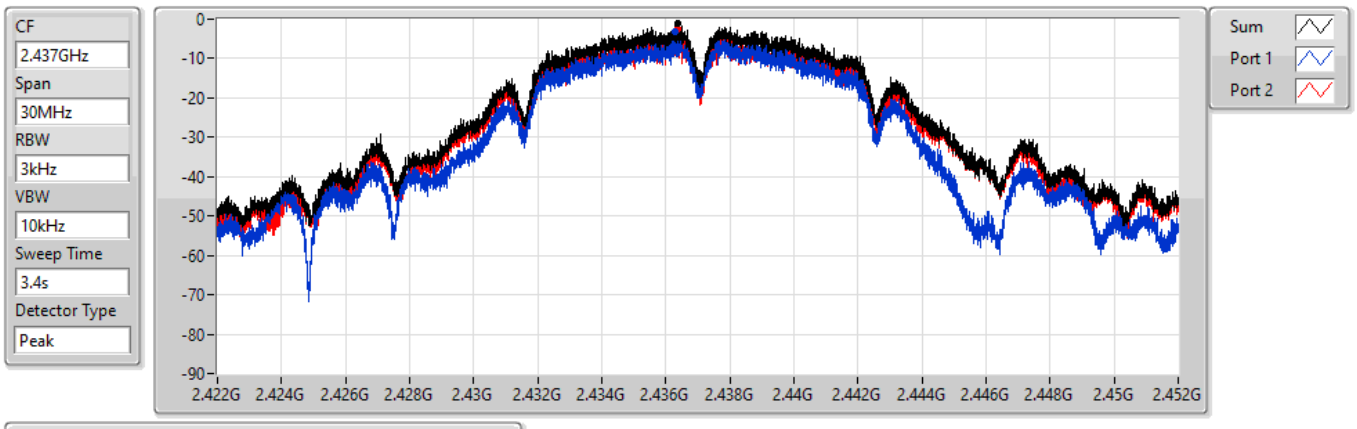
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.56	-1.56	-3.87	-3.21

802.11b_Nss1,(1Mbps)_2TX PSD

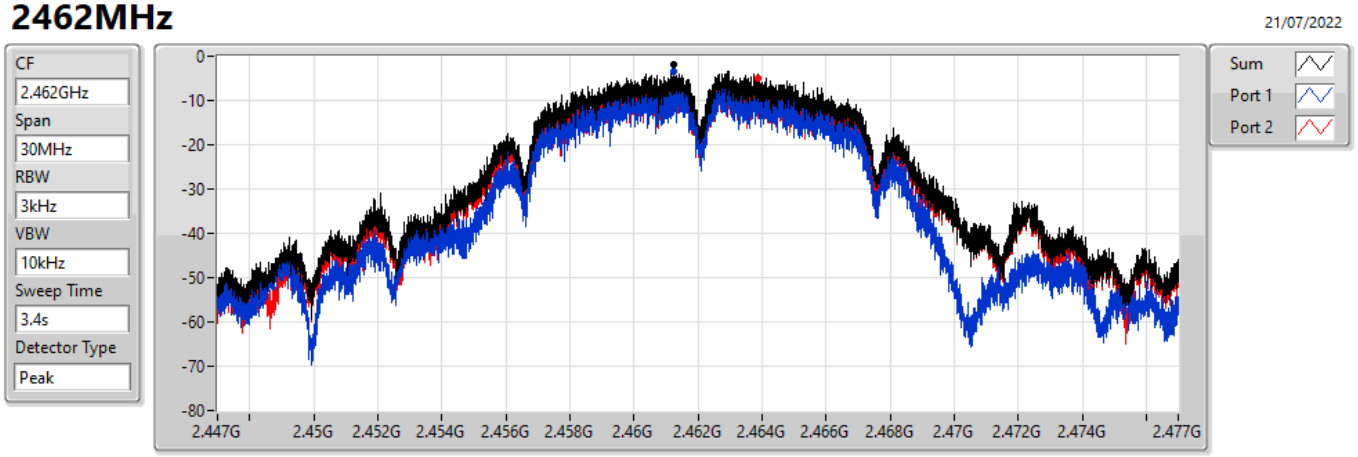
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.88	-0.88	-3.24	-2.53

802.11b_Nss1,(1Mbps)_2TX PSD

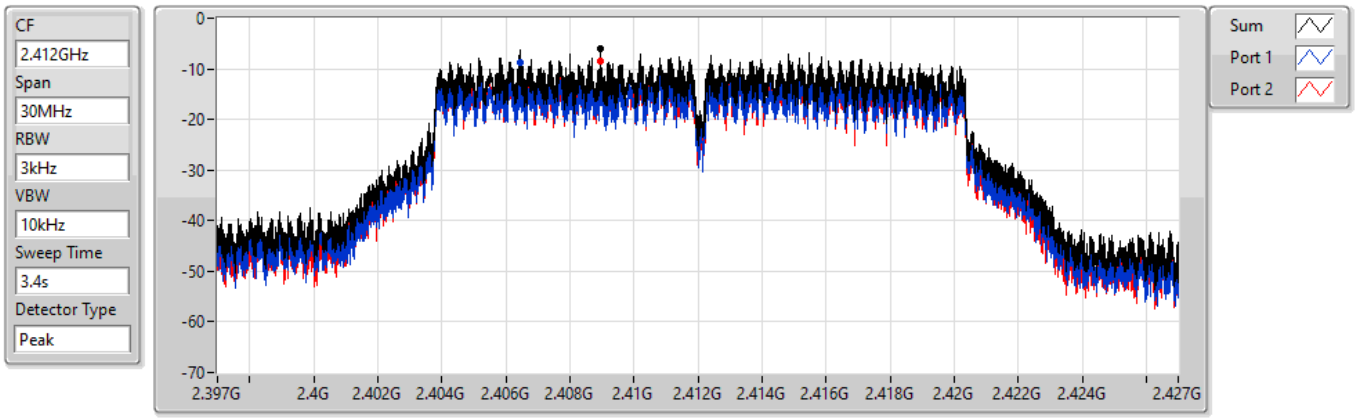
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.94	-1.94	-3.39	-4.86

802.11g_Nss1,(6Mbps)_2TX PSD

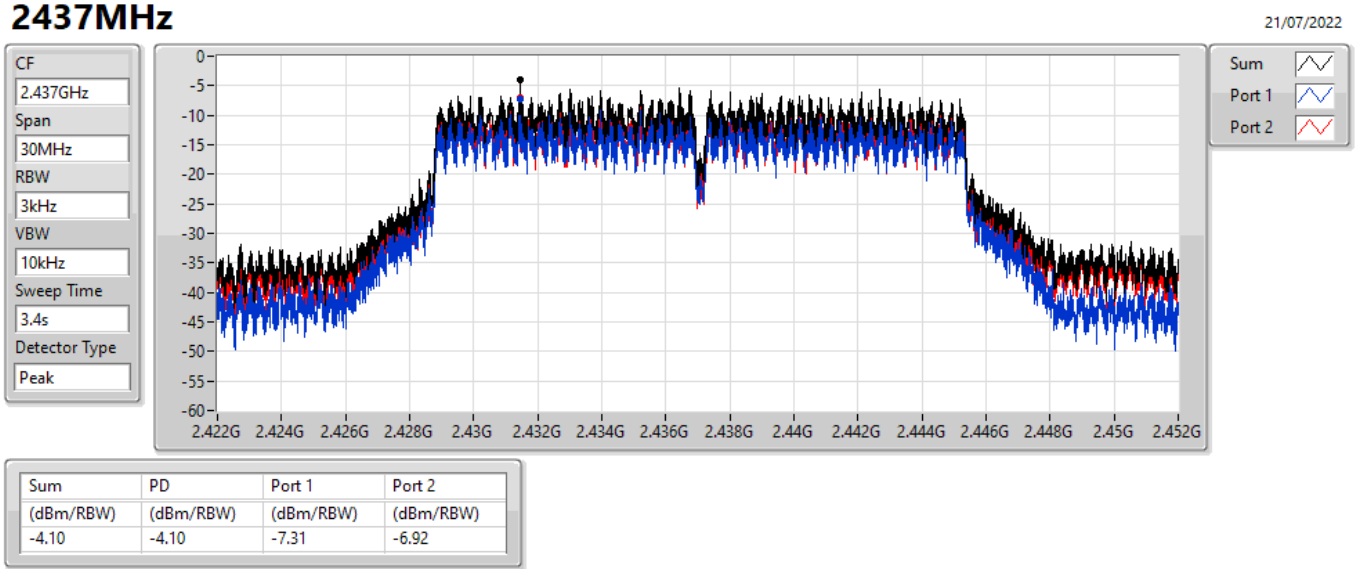
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.05	-6.05	-8.75	-8.45

802.11g_Nss1,(6Mbps)_2TX PSD

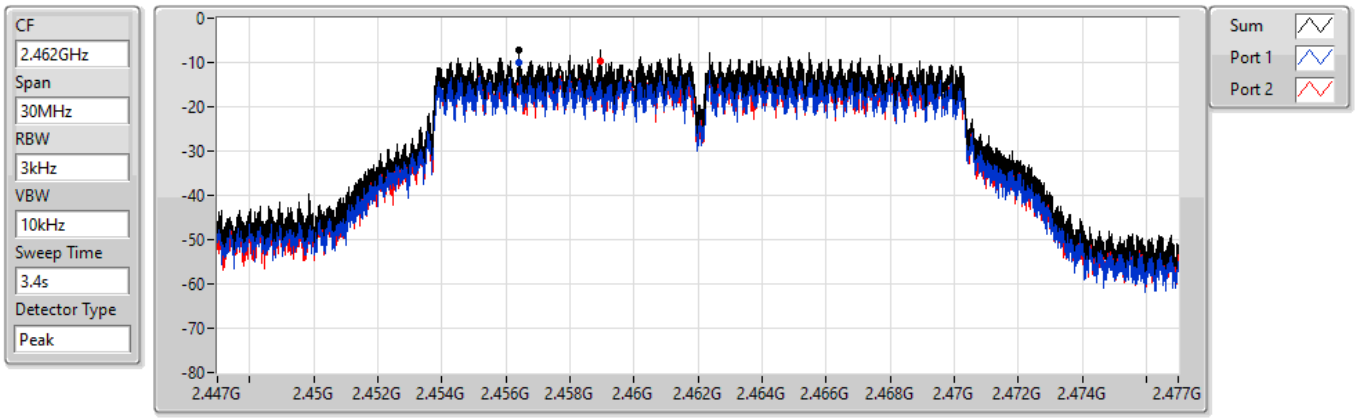
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.10	-4.10	-7.31	-6.92

802.11g_Nss1,(6Mbps)_2TX PSD

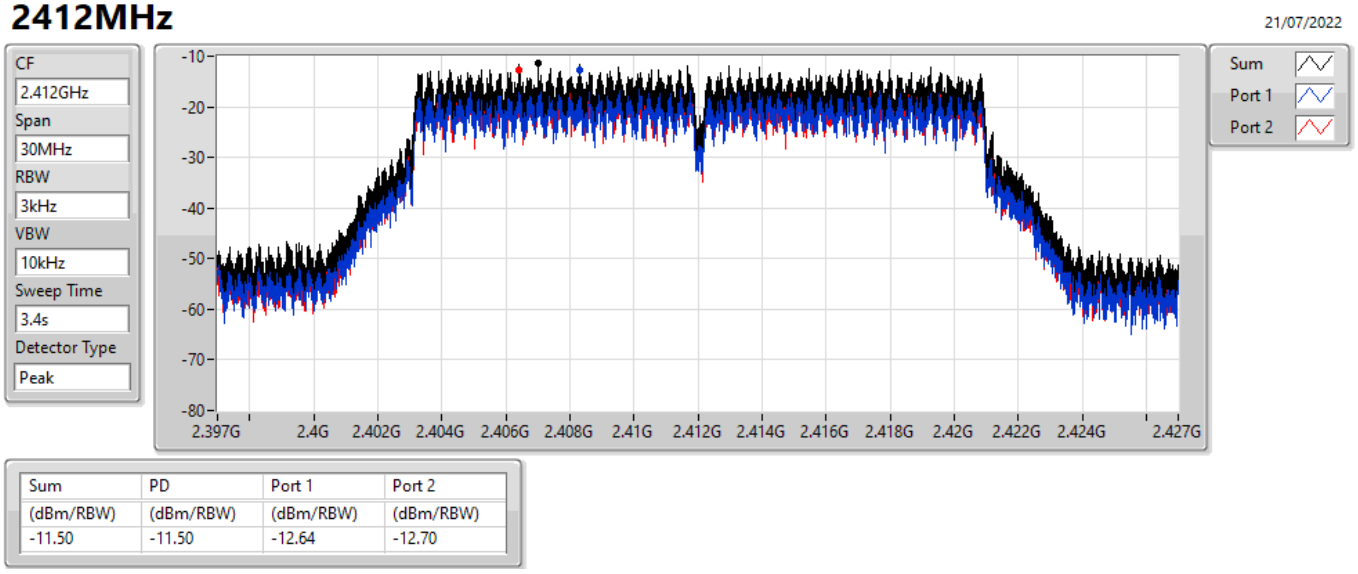
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.25	-7.25	-9.98	-9.84

802.11n HT20_Nss1,(MCS0)_2TX PSD

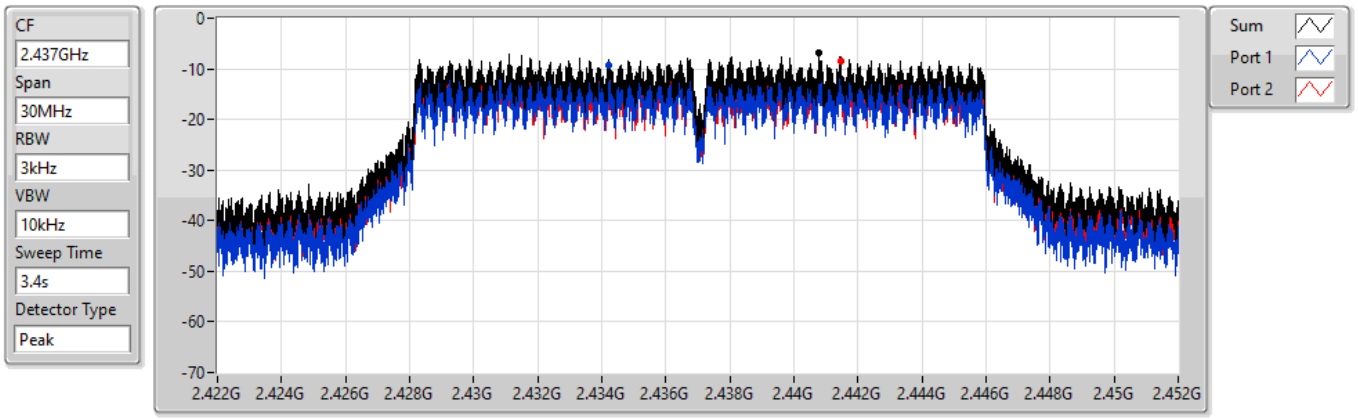
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.50	-11.50	-12.64	-12.70

802.11n HT20_Nss1,(MCS0)_2TX PSD

2437MHz

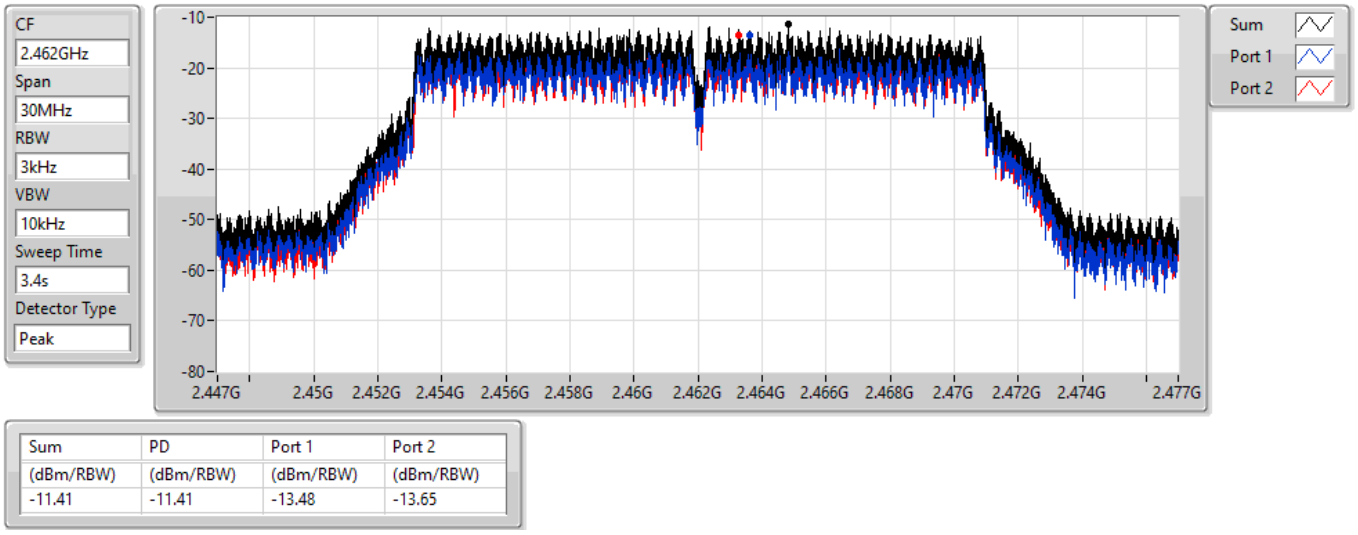


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.93	-6.93	-9.38	-8.49

802.11n HT20_Nss1,(MCS0)_2TX PSD

2462MHz

21/07/2022



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.41	-11.41	-13.48	-13.65

Summary

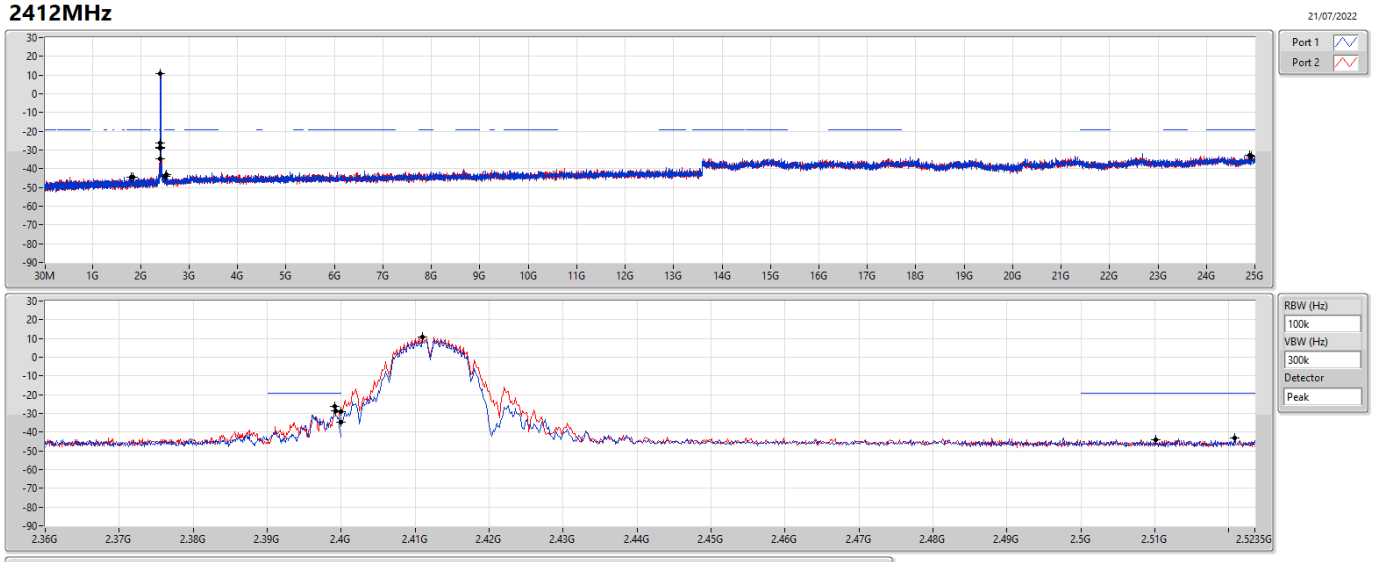
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.41102G	10.97	-19.03	1.84857G	-44.40	2.39912G	-26.39	2.4G	-28.83	2.51006G	-44.17	24.89605G	-32.94	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.4309G	7.71	-22.29	1.98953G	-44.43	2.3996G	-24.42	2.4G	-26.38	2.51054G	-43.67	24.24142G	-33.04	1
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.44208G	7.51	-22.49	1.90216G	-44.26	2.3952G	-32.57	2.4G	-36.29	2.50374G	-43.11	24.44933G	-32.68	2

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)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41102G	10.97	-19.03	1.79731G	-44.72	2.3992G	-28.81	2.4G	-34.65	2.52078G	-43.18	24.92695G	-33.37	1
2412MHz	Pass	2.41102G	10.97	-19.03	1.84857G	-44.40	2.39912G	-26.39	2.4G	-28.83	2.51006G	-44.17	24.89605G	-32.94	2
2437MHz	Pass	2.41102G	10.97	-19.03	2.16894G	-44.41	2.39896G	-42.78	2.4G	-46.55	2.52214G	-44.28	14.9811G	-32.33	1
2437MHz	Pass	2.41102G	10.97	-19.03	1.65168G	-44.54	2.39768G	-43.03	2.4G	-44.96	2.5155G	-43.95	24.19085G	-32.70	2
2462MHz	Pass	2.41102G	10.97	-19.03	2.13749G	-43.72	2.39336G	-43.40	2.4G	-46.29	2.50774G	-43.01	24.96909G	-32.90	1
2462MHz	Pass	2.41102G	10.97	-19.03	1.81129G	-44.75	2.39008G	-44.11	2.4G	-45.65	2.52118G	-43.79	24.23861G	-33.21	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4309G	7.71	-22.29	1.98953G	-44.43	2.3996G	-24.42	2.4G	-26.38	2.51054G	-43.67	24.24142G	-33.04	1
2412MHz	Pass	2.4309G	7.71	-22.29	2.04545G	-45.06	2.3996G	-24.79	2.4G	-27.61	2.51974G	-43.14	24.49428G	-32.90	2
2437MHz	Pass	2.4309G	7.71	-22.29	2.06409G	-43.87	2.39904G	-39.20	2.4G	-39.77	2.50278G	-43.47	24.12904G	-31.88	1
2437MHz	Pass	2.4309G	7.71	-22.29	2.02448G	-44.02	2.3996G	-33.57	2.4G	-37.54	2.50374G	-43.07	24.37628G	-32.77	2
2462MHz	Pass	2.4309G	7.71	-22.29	1.77401G	-44.78	2.39256G	-43.92	2.4G	-45.76	2.51398G	-43.67	24.31728G	-31.77	1
2462MHz	Pass	2.4309G	7.71	-22.29	1.64819G	-44.55	2.39392G	-43.95	2.4G	-45.57	2.50198G	-43.56	24.31166G	-33.06	2
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44208G	7.51	-22.49	1.87653G	-44.41	2.39712G	-32.58	2.4G	-33.95	2.50918G	-44.01	24.11218G	-32.85	1
2412MHz	Pass	2.44208G	7.51	-22.49	1.90216G	-44.26	2.3952G	-32.57	2.4G	-36.29	2.50374G	-43.11	24.44933G	-32.68	2
2437MHz	Pass	2.44208G	7.51	-22.49	1.85789G	-43.62	2.39856G	-42.65	2.4G	-41.26	2.50558G	-44.15	24.95505G	-33.50	1
2437MHz	Pass	2.44208G	7.51	-22.49	948.02M	-44.69	2.39768G	-41.87	2.4G	-44.23	2.5171G	-42.97	24.95224G	-32.80	2
2462MHz	Pass	2.44208G	7.51	-22.49	2.12234G	-44.45	2.39696G	-44.22	2.4G	-46.05	2.5127G	-43.22	24.96909G	-33.20	1
2462MHz	Pass	2.44208G	7.51	-22.49	1.80896G	-44.23	2.39776G	-44.19	2.4G	-47.39	2.50398G	-43.48	24.43247G	-33.57	2

802.11b_Nss1,(1Mbps)_2TX **CSENdB**

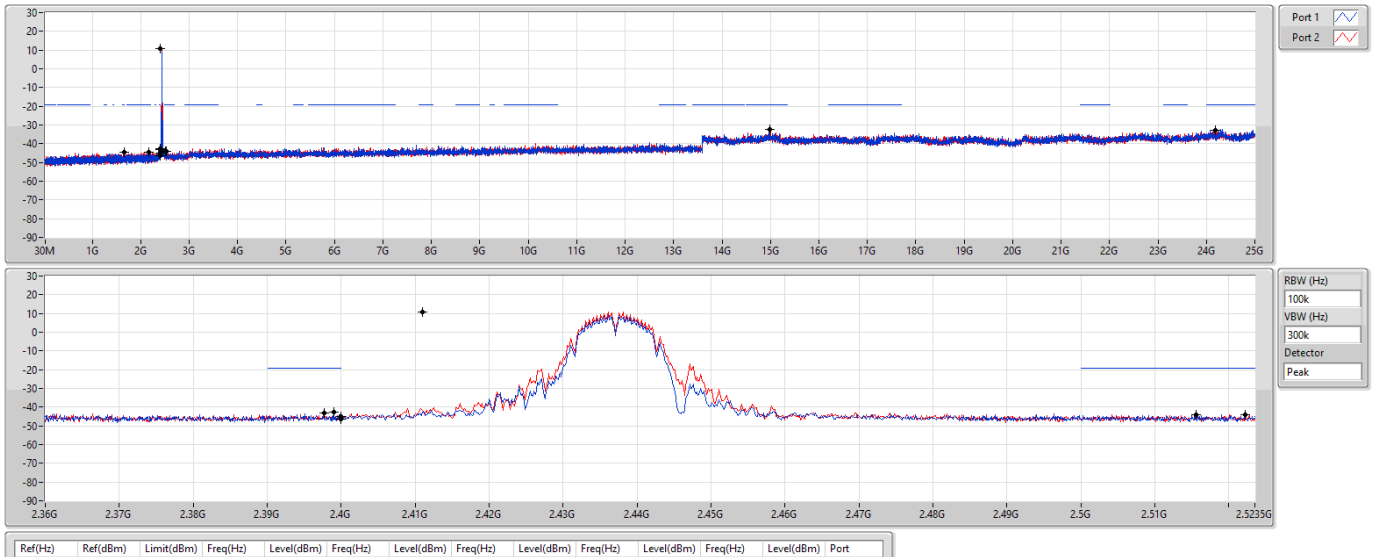
2412MHz



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
2.41102G	10.97	-19.03	1.79731G	-44.72	2.3992G	-28.81	2.4G	-34.65	2.52078G	-43.18	24.92695G	-33.37	1
2.41102G	10.97	-19.03	1.84857G	-44.40	2.39912G	-26.39	2.4G	-28.83	2.51006G	-44.17	24.89605G	-32.94	2

802.11b_Nss1,(1Mbps)_2TX **CSENdB**

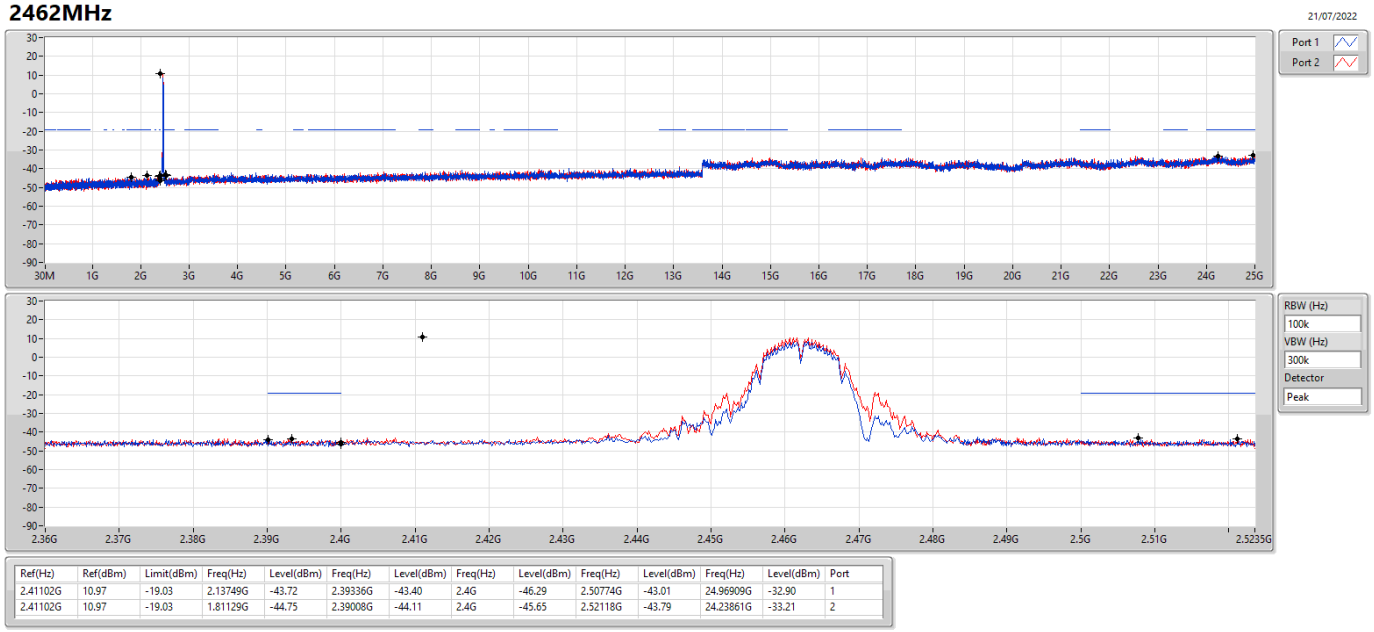
2437MHz



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
2.41102G	10.97	-19.03	2.16894G	-44.41	2.39896G	-42.78	2.4G	-46.55	2.52214G	-44.28	14.9811G	-32.33	1
2.41102G	10.97	-19.03	1.65168G	-44.54	2.39768G	-43.03	2.4G	-44.96	2.5155G	-43.95	24.19085G	-32.70	2

802.11b_Nss1,(1Mbps)_2TX **CSENdB**

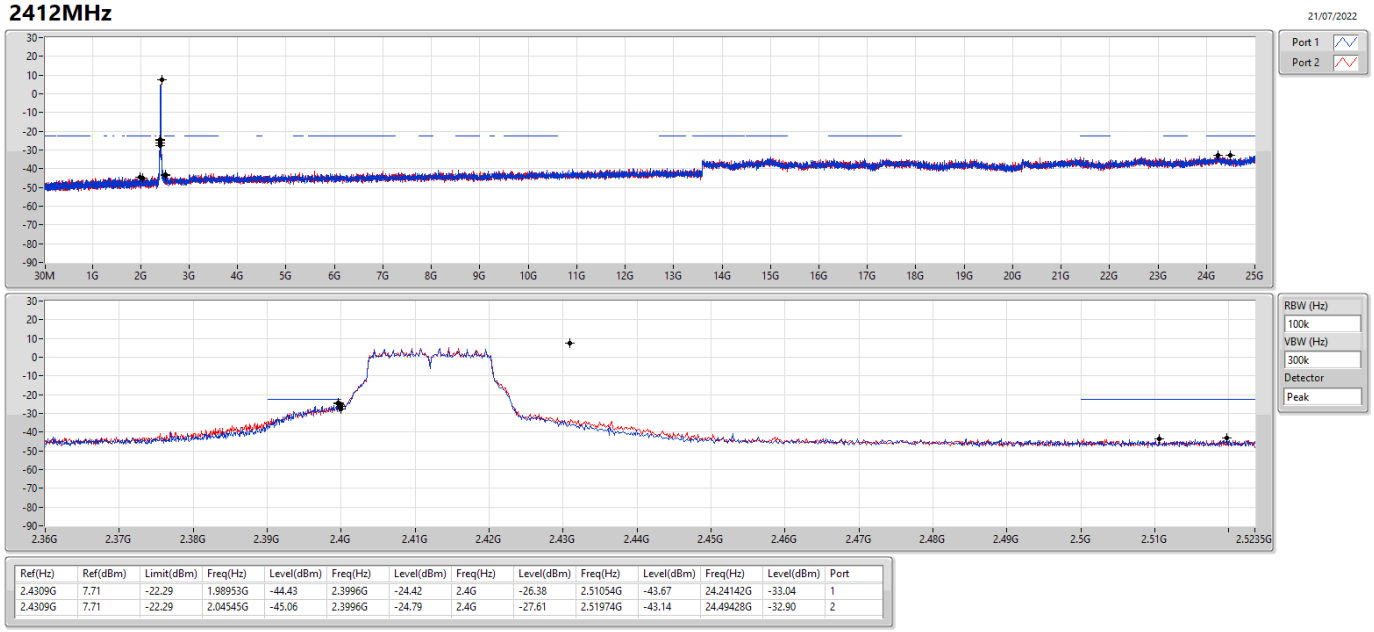
2462MHz



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
2.41102G	10.97	-19.03	2.13749G	-43.72	2.39336G	-43.40	2.4G	-46.29	2.50774G	-43.01	24.96909G	-32.90	1
2.41102G	10.97	-19.03	1.81129G	-44.75	2.39008G	-44.11	2.4G	-45.65	2.52118G	-43.79	24.23861G	-33.21	2

802.11g_Nss1,(6Mbps)_2TX **CSENdB**

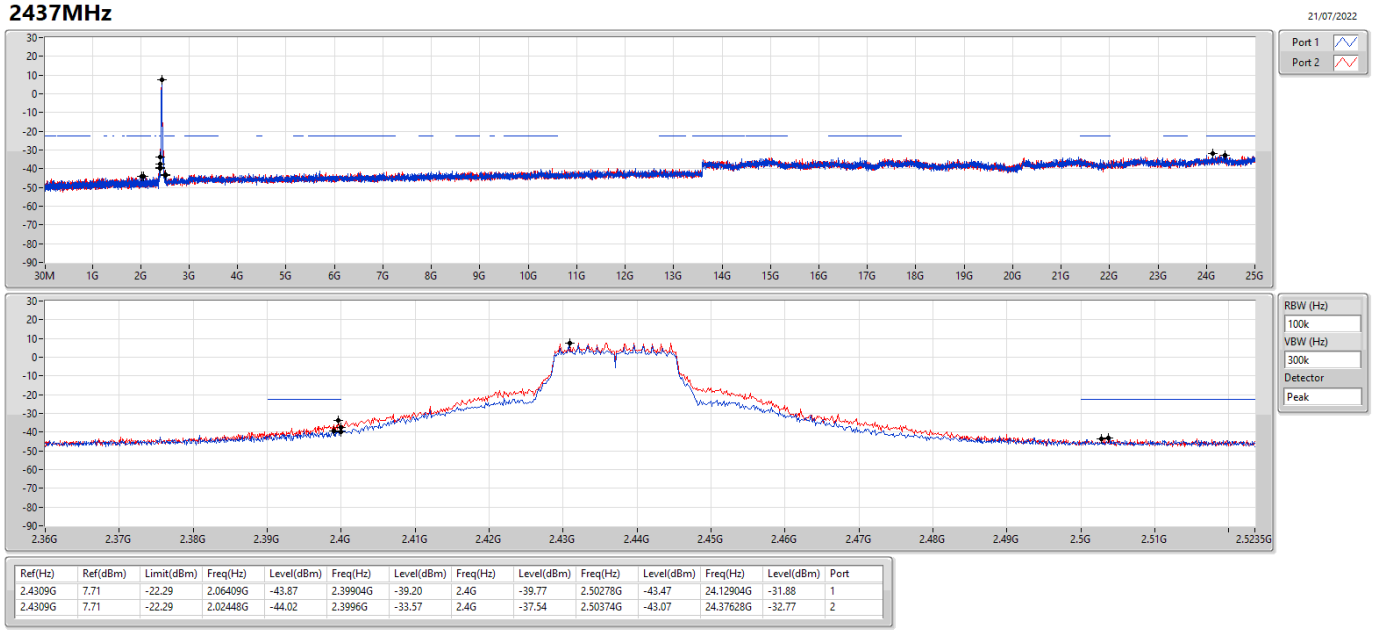
2412MHz



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
2.4309G	7.71	-22.29	1.98953G	-44.43	2.3996G	-24.42	2.4G	-26.38	2.51054G	-43.67	24.24142G	-33.04	1
2.4309G	7.71	-22.29	2.04545G	-45.06	2.3996G	-24.79	2.4G	-27.61	2.51974G	-43.14	24.49428G	-32.90	2

802.11g_Nss1,(6Mbps)_2TX **CSENdB**

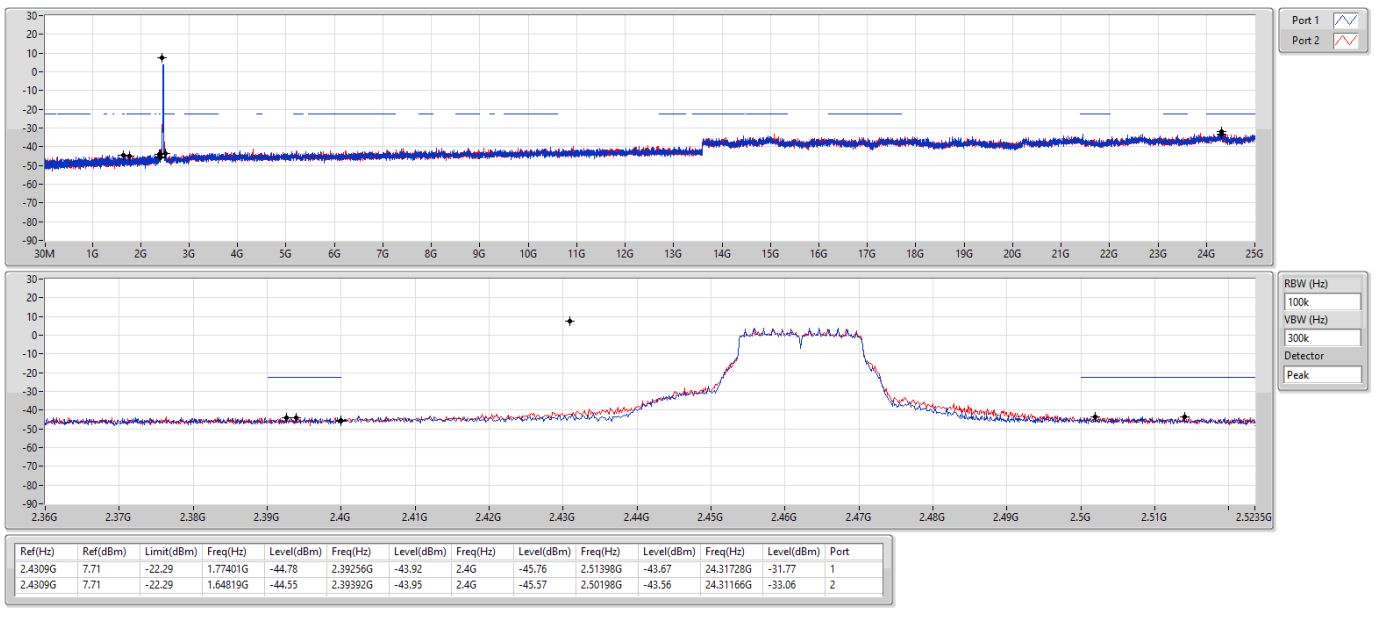
2437MHz



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
2.4309G	7.71	-22.29	2.06409G	-43.87	2.39904G	-39.20	2.4G	-39.77	2.50278G	-43.47	24.12904G	-31.88	1
2.4309G	7.71	-22.29	2.02448G	-44.02	2.3996G	-33.57	2.4G	-37.54	2.50374G	-43.07	24.37628G	-32.77	2

802.11g_Nss1,(6Mbps)_2TX **CSENdB**

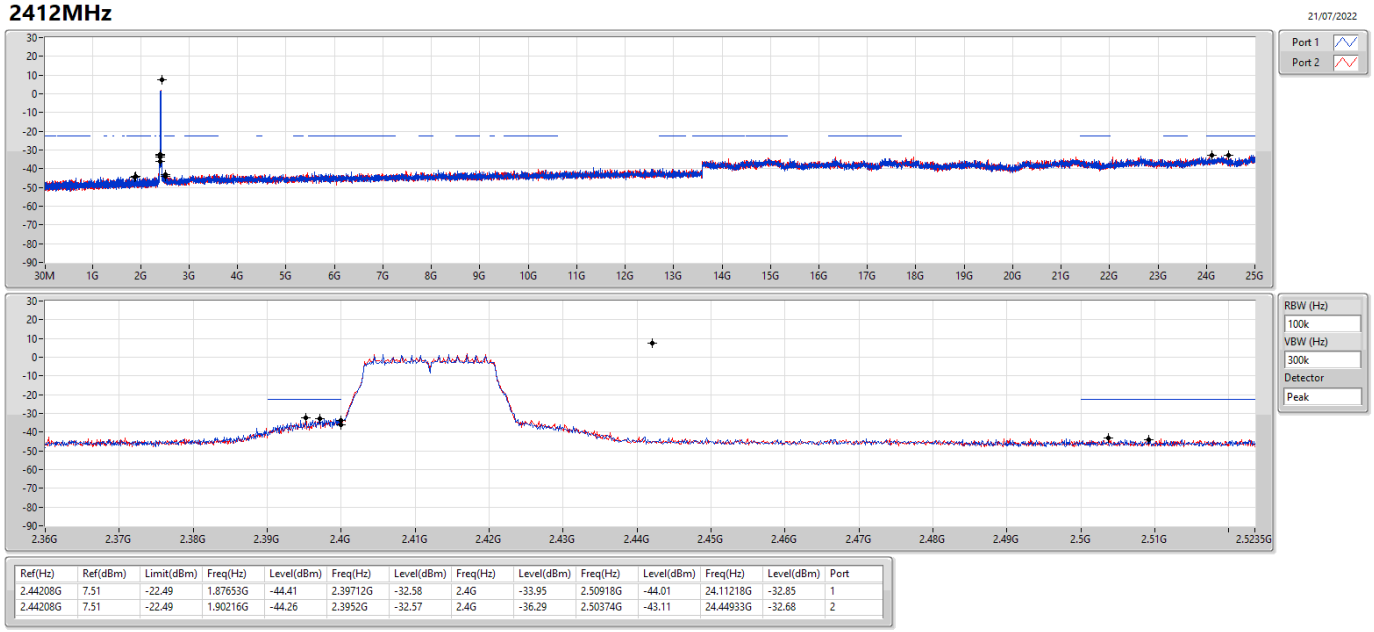
2462MHz



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
2.4309G	7.71	-22.29	1.77401G	-44.78	2.39256G	-43.92	2.4G	-45.76	2.51398G	-43.67	24.31728G	-31.77	1
2.4309G	7.71	-22.29	1.64819G	-44.55	2.39392G	-43.95	2.4G	-45.57	2.50198G	-43.56	24.31166G	-33.06	2

802.11n HT20_Nss1,(MCS0)_2TX **CSENdB**

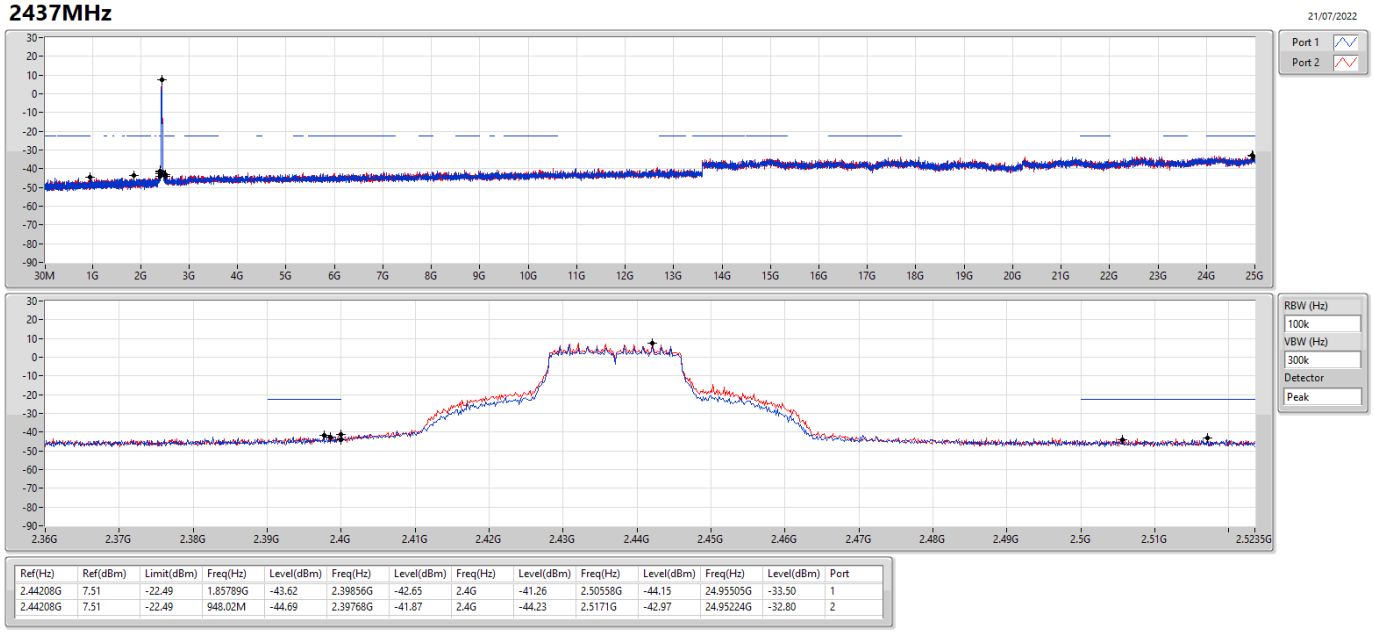
2412MHz



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
2.44208G	7.51	-22.49	1.87653G	-44.41	2.39712G	-32.58	2.4G	-33.95	2.50918G	-44.01	24.11218G	-32.85	1
2.44208G	7.51	-22.49	1.90216G	-44.26	2.3952G	-32.57	2.4G	-36.29	2.50374G	-43.11	24.44933G	-32.68	2

802.11n HT20_Nss1,(MCS0)_2TX **CSENdB**

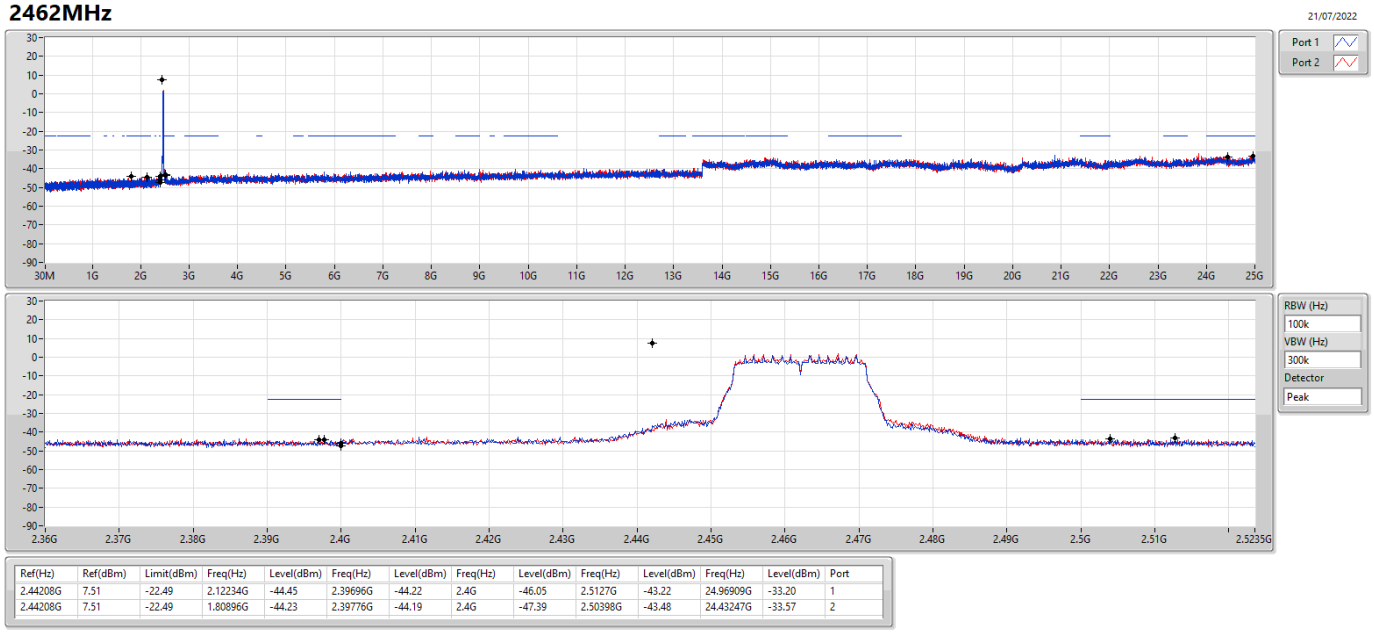
2437MHz



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
2.44208G	7.51	-22.49	1.85789G	-43.62	2.39856G	-42.65	2.4G	-41.26	2.50558G	-44.15	24.95505G	-33.50	1
2.44208G	7.51	-22.49	948.02M	-44.69	2.39768G	-41.87	2.4G	-44.23	2.5171G	-42.97	24.95224G	-32.80	2

802.11n HT20_Nss1,(MCS0)_2TX **CSENdB**

2462MHz



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
2.44208G	7.51	-22.49	2.12234G	-44.45	2.39696G	-44.22	2.4G	-46.05	2.5127G	-43.22	24.96909G	-33.20	1
2.44208G	7.51	-22.49	1.80896G	-44.23	2.39776G	-44.19	2.4G	-47.39	2.50398G	-43.48	24.43247G	-33.57	2

Summary

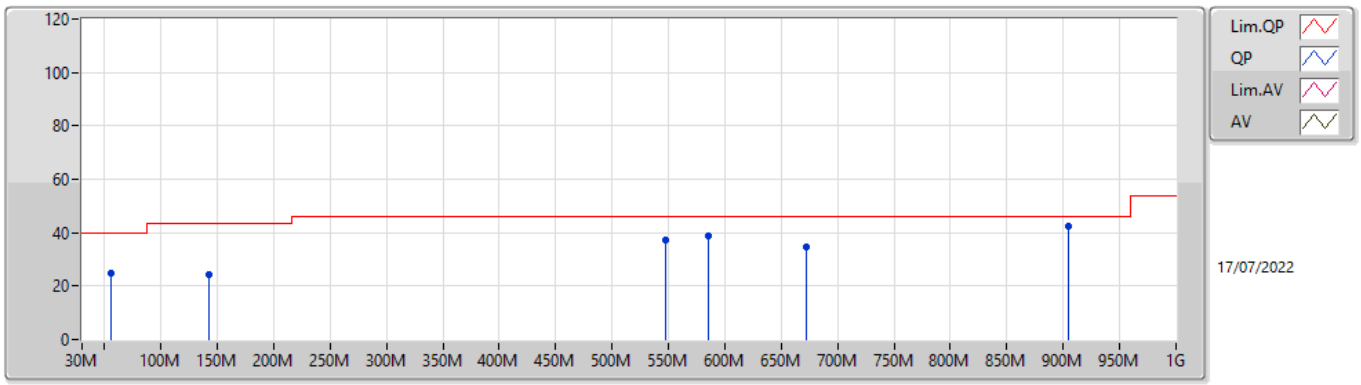
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	QP	904.94M	44.26	46.00	-1.74	3	Horizontal	119	1.52	-

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)_2TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	55.22M	24.83	40.00	-15.17	3	Vertical	0	1.00	-
2437MHz	Pass	PK	142.52M	24.25	43.50	-19.25	3	Vertical	0	1.00	-
2437MHz	Pass	PK	547.98M	37.22	46.00	-8.78	3	Vertical	0	1.00	-
2437MHz	Pass	PK	584.84M	38.73	46.00	-7.27	3	Vertical	0	1.00	-
2437MHz	Pass	PK	672.14M	34.88	46.00	-11.12	3	Vertical	0	1.00	-
2437MHz	Pass	PK	904.94M	42.24	46.00	-3.76	3	Vertical	0	1.00	-
2437MHz	Pass	PK	144.46M	28.96	43.50	-14.54	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	262.8M	27.09	46.00	-18.91	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	598.42M	38.89	46.00	-7.11	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	720.64M	38.07	46.00	-7.93	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	769.14M	36.57	46.00	-9.43	3	Horizontal	360	1.00	-
2437MHz	Pass	QP	904.94M	44.26	46.00	-1.74	3	Horizontal	119	1.52	-

802.11n HT20_Nss1,(MCS0)_2TX

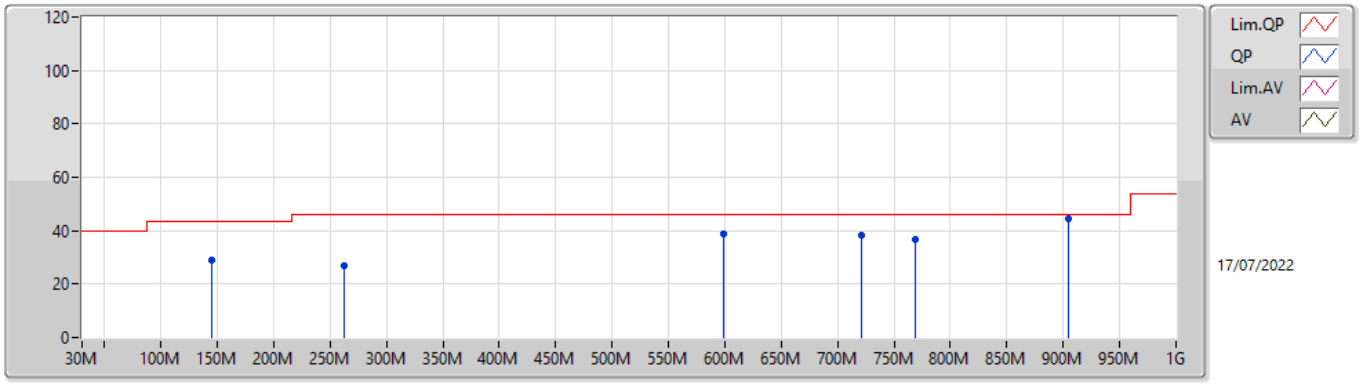
2437MHz_Transformer



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	55.22M	24.83	40.00	-15.17	-14.19	3	Vertical	0	1.00	-	39.02	12.11	1.20	27.50
PK	142.52M	24.25	43.50	-19.25	-9.21	3	Vertical	0	1.00	-	33.46	16.01	1.96	27.18
PK	547.98M	37.22	46.00	-8.78	0.27	3	Vertical	0	1.00	-	36.95	24.29	3.96	27.98
PK	584.84M	38.73	46.00	-7.27	-0.03	3	Vertical	0	1.00	-	38.76	23.79	4.14	27.96
PK	672.14M	34.88	46.00	-11.12	0.63	3	Vertical	0	1.00	-	34.25	24.12	4.47	27.96
PK	904.94M	42.24	46.00	-3.76	3.25	3	Vertical	0	1.00	-	38.99	25.49	5.29	27.53

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_Transformer



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	144.46M	28.96	43.50	-14.54	-9.36	3	Horizontal	360	1.00	-	38.32	15.84	1.97	27.17
PK	262.8M	27.09	46.00	-18.91	-5.51	3	Horizontal	360	1.00	-	32.60	18.45	2.70	26.66
PK	598.42M	38.89	46.00	-7.11	0.00	3	Horizontal	360	1.00	-	38.89	23.75	4.20	27.95
PK	720.64M	38.07	46.00	-7.93	1.29	3	Horizontal	360	1.00	-	36.78	24.48	4.63	27.82
PK	769.14M	36.57	46.00	-9.43	2.18	3	Horizontal	360	1.00	-	34.39	25.13	4.81	27.76
QP	904.94M	44.26	46.00	-1.74	3.25	3	Horizontal	119	1.52	-	41.01	25.49	5.29	27.53

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	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	2.3872G	50.82	54.00	-3.18	3	Horizontal	192	2.55	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.4835G	53.68	54.00	-0.32	3	Horizontal	349	1.46	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	2.39G	53.47	54.00	-0.53	3	Horizontal	338	2.57	-

Result

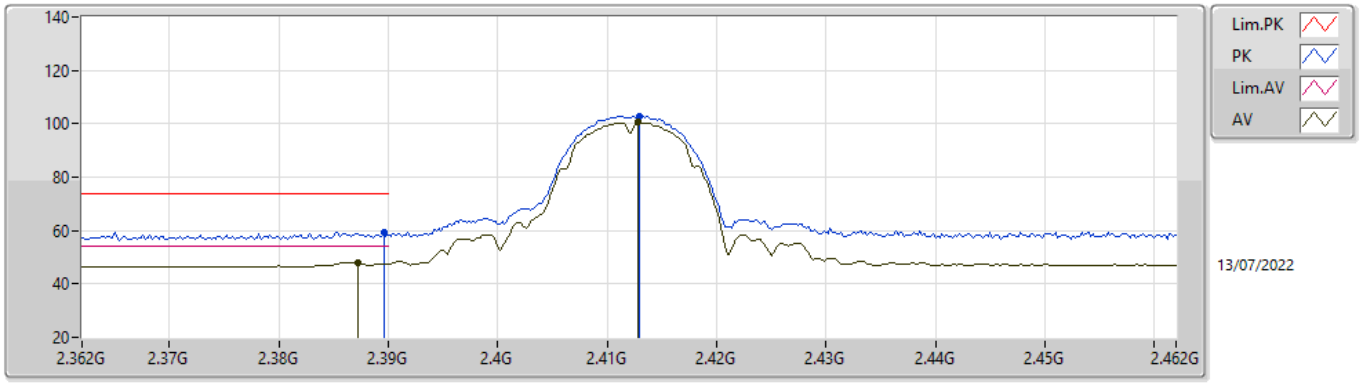
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3872G	48.00	54.00	-6.00	3	Vertical	189	2.41	-
2412MHz	Pass	AV	2.4128G	100.50	Inf	-Inf	3	Vertical	189	2.41	-
2412MHz	Pass	PK	2.3896G	59.45	74.00	-14.55	3	Vertical	189	2.41	-
2412MHz	Pass	PK	2.413G	102.95	Inf	-Inf	3	Vertical	189	2.41	-
2412MHz	Pass	AV	2.3872G	50.82	54.00	-3.18	3	Horizontal	192	2.55	-
2412MHz	Pass	AV	2.4128G	106.20	Inf	-Inf	3	Horizontal	192	2.55	-
2412MHz	Pass	PK	2.3868G	60.22	74.00	-13.78	3	Horizontal	192	2.55	-
2412MHz	Pass	PK	2.413G	108.68	Inf	-Inf	3	Horizontal	192	2.55	-
2412MHz	Pass	AV	4.82424G	42.98	54.00	-11.02	3	Vertical	196	1.84	-
2412MHz	Pass	PK	4.82424G	48.27	74.00	-25.73	3	Vertical	196	1.84	-
2412MHz	Pass	AV	4.82424G	47.91	54.00	-6.09	3	Horizontal	180	1.00	-
2412MHz	Pass	PK	4.82424G	51.16	74.00	-22.84	3	Horizontal	180	1.00	-
2437MHz	Pass	AV	2.3854G	46.52	54.00	-7.48	3	Vertical	180	2.60	-
2437MHz	Pass	AV	2.4362G	101.46	Inf	-Inf	3	Vertical	180	2.60	-
2437MHz	Pass	AV	2.487G	47.55	54.00	-6.45	3	Vertical	180	2.60	-
2437MHz	Pass	PK	2.3534G	58.14	74.00	-15.86	3	Vertical	180	2.60	-
2437MHz	Pass	PK	2.4366G	103.94	Inf	-Inf	3	Vertical	180	2.60	-
2437MHz	Pass	PK	2.4914G	59.23	74.00	-14.77	3	Vertical	180	2.60	-
2437MHz	Pass	AV	2.3866G	46.54	54.00	-7.46	3	Horizontal	1	1.50	-
2437MHz	Pass	AV	2.4362G	102.53	Inf	-Inf	3	Horizontal	1	1.50	-
2437MHz	Pass	AV	2.4934G	47.58	54.00	-6.42	3	Horizontal	1	1.50	-
2437MHz	Pass	PK	2.367G	57.72	74.00	-16.28	3	Horizontal	1	1.50	-
2437MHz	Pass	PK	2.4366G	105.09	Inf	-Inf	3	Horizontal	1	1.50	-
2437MHz	Pass	PK	2.495G	59.39	74.00	-14.61	3	Horizontal	1	1.50	-
2437MHz	Pass	AV	4.8743G	43.79	54.00	-10.21	3	Vertical	232	2.33	-
2437MHz	Pass	PK	4.87414G	48.93	74.00	-25.07	3	Vertical	232	2.33	-
2437MHz	Pass	AV	4.87426G	46.66	54.00	-7.34	3	Horizontal	176	1.10	-
2437MHz	Pass	PK	4.87434G	50.90	74.00	-23.10	3	Horizontal	176	1.10	-
2462MHz	Pass	AV	2.4614G	101.68	Inf	-Inf	3	Vertical	180	2.29	-
2462MHz	Pass	AV	2.4886G	49.22	54.00	-4.78	3	Vertical	180	2.29	-
2462MHz	Pass	PK	2.4612G	104.14	Inf	-Inf	3	Vertical	180	2.29	-
2462MHz	Pass	PK	2.486G	60.48	74.00	-13.52	3	Vertical	180	2.29	-
2462MHz	Pass	AV	2.4614G	104.90	Inf	-Inf	3	Horizontal	181	1.94	-
2462MHz	Pass	AV	2.4884G	50.62	54.00	-3.38	3	Horizontal	181	1.94	-
2462MHz	Pass	PK	2.4612G	107.39	Inf	-Inf	3	Horizontal	181	1.94	-
2462MHz	Pass	PK	2.488G	60.49	74.00	-13.51	3	Horizontal	181	1.94	-
2462MHz	Pass	AV	4.9243G	44.77	54.00	-9.23	3	Vertical	350	1.02	-
2462MHz	Pass	PK	4.92424G	49.66	74.00	-24.34	3	Vertical	350	1.02	-
2462MHz	Pass	AV	4.92424G	46.15	54.00	-7.85	3	Horizontal	177	1.02	-
2462MHz	Pass	PK	4.92424G	50.18	74.00	-23.82	3	Horizontal	177	1.02	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	52.85	54.00	-1.15	3	Vertical	177	2.70	-
2412MHz	Pass	AV	2.4062G	96.00	Inf	-Inf	3	Vertical	177	2.70	-
2412MHz	Pass	PK	2.39G	63.88	74.00	-10.12	3	Vertical	177	2.70	-
2412MHz	Pass	PK	2.4064G	103.90	Inf	-Inf	3	Vertical	177	2.70	-
2412MHz	Pass	AV	2.3898G	53.59	54.00	-0.41	3	Horizontal	338	2.56	-
2412MHz	Pass	AV	2.4144G	99.91	Inf	-Inf	3	Horizontal	338	2.56	-
2412MHz	Pass	PK	2.3896G	66.59	74.00	-7.41	3	Horizontal	338	2.56	-
2412MHz	Pass	PK	2.4142G	107.80	Inf	-Inf	3	Horizontal	338	2.56	-
2412MHz	Pass	AV	4.8262G	34.39	54.00	-19.61	3	Vertical	357	1.06	-
2412MHz	Pass	PK	4.8256G	46.24	74.00	-27.76	3	Vertical	357	1.06	-
2412MHz	Pass	AV	4.82308G	35.97	54.00	-18.03	3	Horizontal	165	1.98	-
2412MHz	Pass	PK	4.82704G	48.01	74.00	-25.99	3	Horizontal	165	1.98	-
2417MHz	Pass	AV	2.39G	49.46	54.00	-4.54	3	Vertical	175	2.41	-
2417MHz	Pass	AV	2.4162G	95.67	Inf	-Inf	3	Vertical	175	2.41	-
2417MHz	Pass	PK	2.39G	62.77	74.00	-11.23	3	Vertical	175	2.41	-
2417MHz	Pass	PK	2.4164G	103.55	Inf	-Inf	3	Vertical	175	2.41	-
2417MHz	Pass	AV	2.39G	52.33	54.00	-1.67	3	Horizontal	337	2.46	-
2417MHz	Pass	AV	2.4194G	100.55	Inf	-Inf	3	Horizontal	337	2.46	-
2417MHz	Pass	PK	2.39G	64.83	74.00	-9.17	3	Horizontal	337	2.46	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2417MHz	Pass	PK	2.4194G	108.80	Inf	-Inf	3	Horizontal	337	2.46	-
2437MHz	Pass	AV	2.3898G	47.80	54.00	-6.20	3	Vertical	171	2.32	-
2437MHz	Pass	AV	2.441G	97.04	Inf	-Inf	3	Vertical	171	2.32	-
2437MHz	Pass	AV	2.4846G	48.53	54.00	-5.47	3	Vertical	171	2.32	-
2437MHz	Pass	PK	2.3758G	58.36	74.00	-15.64	3	Vertical	171	2.32	-
2437MHz	Pass	PK	2.441G	105.16	Inf	-Inf	3	Vertical	171	2.32	-
2437MHz	Pass	PK	2.4862G	59.74	74.00	-14.26	3	Vertical	171	2.32	-
2437MHz	Pass	AV	2.3886G	48.24	54.00	-5.76	3	Horizontal	336	2.26	-
2437MHz	Pass	AV	2.4394G	101.53	Inf	-Inf	3	Horizontal	336	2.26	-
2437MHz	Pass	AV	2.4842G	48.76	54.00	-5.24	3	Horizontal	336	2.26	-
2437MHz	Pass	PK	2.3894G	58.44	74.00	-15.56	3	Horizontal	336	2.26	-
2437MHz	Pass	PK	2.4346G	109.15	Inf	-Inf	3	Horizontal	336	2.26	-
2437MHz	Pass	PK	2.4854G	59.92	74.00	-14.08	3	Horizontal	336	2.26	-
2437MHz	Pass	AV	4.87652G	34.88	54.00	-19.12	3	Vertical	350	1.00	-
2437MHz	Pass	PK	4.88078G	46.26	74.00	-27.74	3	Vertical	350	1.00	-
2437MHz	Pass	AV	4.86986G	35.14	54.00	-18.86	3	Horizontal	173	1.01	-
2437MHz	Pass	PK	4.86938G	46.89	74.00	-27.11	3	Horizontal	173	1.01	-
2457MHz	Pass	AV	2.456G	96.56	Inf	-Inf	3	Vertical	173	2.27	-
2457MHz	Pass	AV	2.4848G	50.23	54.00	-3.77	3	Vertical	173	2.27	-
2457MHz	Pass	PK	2.4558G	104.84	Inf	-Inf	3	Vertical	173	2.27	-
2457MHz	Pass	PK	2.4854G	63.49	74.00	-10.51	3	Vertical	173	2.27	-
2457MHz	Pass	AV	2.4544G	101.03	Inf	-Inf	3	Horizontal	336	2.74	-
2457MHz	Pass	AV	2.4836G	53.14	54.00	-0.86	3	Horizontal	336	2.74	-
2457MHz	Pass	PK	2.4554G	108.93	Inf	-Inf	3	Horizontal	336	2.74	-
2457MHz	Pass	PK	2.4856G	66.84	74.00	-7.16	3	Horizontal	336	2.74	-
2462MHz	Pass	AV	2.461G	95.56	Inf	-Inf	3	Vertical	170	2.28	-
2462MHz	Pass	AV	2.4844G	50.03	54.00	-3.97	3	Vertical	170	2.28	-
2462MHz	Pass	PK	2.4608G	104.00	Inf	-Inf	3	Vertical	170	2.28	-
2462MHz	Pass	PK	2.485G	62.33	74.00	-11.67	3	Vertical	170	2.28	-
2462MHz	Pass	AV	2.4652G	100.25	Inf	-Inf	3	Horizontal	349	1.46	-
2462MHz	Pass	AV	2.4835G	53.68	54.00	-0.32	3	Horizontal	349	1.46	-
2462MHz	Pass	PK	2.465G	108.15	Inf	-Inf	3	Horizontal	349	1.46	-
2462MHz	Pass	PK	2.4838G	67.85	74.00	-6.15	3	Horizontal	349	1.46	-
2462MHz	Pass	AV	4.9261G	34.50	54.00	-19.50	3	Vertical	355	1.01	-
2462MHz	Pass	PK	4.92172G	46.68	74.00	-27.32	3	Vertical	355	1.01	-
2462MHz	Pass	AV	4.9249G	34.10	54.00	-19.90	3	Horizontal	174	1.45	-
2462MHz	Pass	PK	4.92364G	45.24	74.00	-28.76	3	Horizontal	174	1.45	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3896G	51.16	54.00	-2.84	3	Vertical	179	2.13	-
2412MHz	Pass	AV	2.4094G	91.45	Inf	-Inf	3	Vertical	179	2.13	-
2412MHz	Pass	PK	2.39G	63.91	74.00	-10.09	3	Vertical	179	2.13	-
2412MHz	Pass	PK	2.4068G	99.75	Inf	-Inf	3	Vertical	179	2.13	-
2412MHz	Pass	AV	2.39G	53.47	54.00	-0.53	3	Horizontal	338	2.57	-
2412MHz	Pass	AV	2.4158G	96.47	Inf	-Inf	3	Horizontal	338	2.57	-
2412MHz	Pass	PK	2.3882G	66.28	74.00	-7.72	3	Horizontal	338	2.57	-
2412MHz	Pass	PK	2.4154G	105.09	Inf	-Inf	3	Horizontal	338	2.57	-
2412MHz	Pass	AV	4.82508G	33.37	54.00	-20.63	3	Vertical	353	1.03	-
2412MHz	Pass	PK	4.81998G	45.24	74.00	-28.76	3	Vertical	353	1.03	-
2412MHz	Pass	AV	4.8243G	34.89	54.00	-19.11	3	Horizontal	176	1.00	-
2412MHz	Pass	PK	4.824G	46.65	74.00	-27.35	3	Horizontal	176	1.00	-
2417MHz	Pass	AV	2.3892G	50.35	54.00	-3.65	3	Vertical	181	2.06	-
2417MHz	Pass	AV	2.4194G	94.57	Inf	-Inf	3	Vertical	181	2.06	-
2417MHz	Pass	PK	2.3866G	60.69	74.00	-13.31	3	Vertical	181	2.06	-
2417MHz	Pass	PK	2.4198G	102.77	Inf	-Inf	3	Vertical	181	2.06	-
2417MHz	Pass	AV	2.39G	52.19	54.00	-1.81	3	Horizontal	339	2.56	-
2417MHz	Pass	AV	2.4182G	99.47	Inf	-Inf	3	Horizontal	339	2.56	-
2417MHz	Pass	PK	2.3876G	63.57	74.00	-10.43	3	Horizontal	339	2.56	-
2417MHz	Pass	PK	2.4154G	108.00	Inf	-Inf	3	Horizontal	339	2.56	-
2437MHz	Pass	AV	2.3894G	47.33	54.00	-6.67	3	Vertical	172	2.31	-
2437MHz	Pass	AV	2.4442G	96.04	Inf	-Inf	3	Vertical	172	2.31	-
2437MHz	Pass	AV	2.4886G	48.31	54.00	-5.69	3	Vertical	172	2.31	-
2437MHz	Pass	PK	2.3562G	58.39	74.00	-15.61	3	Vertical	172	2.31	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	2.4342G	104.52	Inf	-Inf	3	Vertical	172	2.31	-
2437MHz	Pass	PK	2.4842G	58.49	74.00	-15.51	3	Vertical	172	2.31	-
2437MHz	Pass	AV	2.3882G	47.79	54.00	-6.21	3	Horizontal	338	2.25	-
2437MHz	Pass	AV	2.4406G	100.67	Inf	-Inf	3	Horizontal	338	2.25	-
2437MHz	Pass	AV	2.4835G	48.52	54.00	-5.48	3	Horizontal	338	2.25	-
2437MHz	Pass	PK	2.389G	58.44	74.00	-15.56	3	Horizontal	338	2.25	-
2437MHz	Pass	PK	2.4394G	109.18	Inf	-Inf	3	Horizontal	338	2.25	-
2437MHz	Pass	PK	2.4902G	60.32	74.00	-13.68	3	Horizontal	338	2.25	-
2437MHz	Pass	AV	4.87502G	34.55	54.00	-19.45	3	Vertical	351	1.00	-
2437MHz	Pass	PK	4.87376G	46.11	74.00	-27.89	3	Vertical	351	1.00	-
2437MHz	Pass	AV	4.8743G	34.86	54.00	-19.14	3	Horizontal	173	1.03	-
2437MHz	Pass	PK	4.86932G	46.86	74.00	-27.14	3	Horizontal	173	1.03	-
2457MHz	Pass	AV	2.459G	96.08	Inf	-Inf	3	Vertical	170	2.25	-
2457MHz	Pass	AV	2.4835G	50.41	54.00	-3.59	3	Vertical	170	2.25	-
2457MHz	Pass	PK	2.459G	105.45	Inf	-Inf	3	Vertical	170	2.25	-
2457MHz	Pass	PK	2.4835G	62.22	74.00	-11.78	3	Vertical	170	2.25	-
2457MHz	Pass	AV	2.4636G	100.34	Inf	-Inf	3	Horizontal	350	1.47	-
2457MHz	Pass	AV	2.4835G	53.28	54.00	-0.72	3	Horizontal	350	1.47	-
2457MHz	Pass	PK	2.4638G	108.96	Inf	-Inf	3	Horizontal	350	1.47	-
2457MHz	Pass	PK	2.4835G	63.93	74.00	-10.07	3	Horizontal	350	1.47	-
2462MHz	Pass	AV	2.459G	91.94	Inf	-Inf	3	Vertical	171	2.27	-
2462MHz	Pass	AV	2.4835G	51.47	54.00	-2.53	3	Vertical	171	2.27	-
2462MHz	Pass	PK	2.459G	101.43	Inf	-Inf	3	Vertical	171	2.27	-
2462MHz	Pass	PK	2.4836G	63.52	74.00	-10.48	3	Vertical	171	2.27	-
2462MHz	Pass	AV	2.4606G	96.82	Inf	-Inf	3	Horizontal	337	1.93	-
2462MHz	Pass	AV	2.4835G	53.41	54.00	-0.59	3	Horizontal	337	1.93	-
2462MHz	Pass	PK	2.4606G	105.20	Inf	-Inf	3	Horizontal	337	1.93	-
2462MHz	Pass	PK	2.4838G	65.65	74.00	-8.35	3	Horizontal	337	1.93	-
2462MHz	Pass	AV	4.9243G	32.82	54.00	-21.18	3	Vertical	70	1.50	-
2462MHz	Pass	PK	4.9189G	44.57	74.00	-29.43	3	Vertical	70	1.50	-
2462MHz	Pass	AV	4.92418G	33.24	54.00	-20.76	3	Horizontal	182	2.24	-
2462MHz	Pass	PK	4.92466G	44.67	74.00	-29.33	3	Horizontal	182	2.24	-

802.11b_Nss1,(1Mbps)_2TX

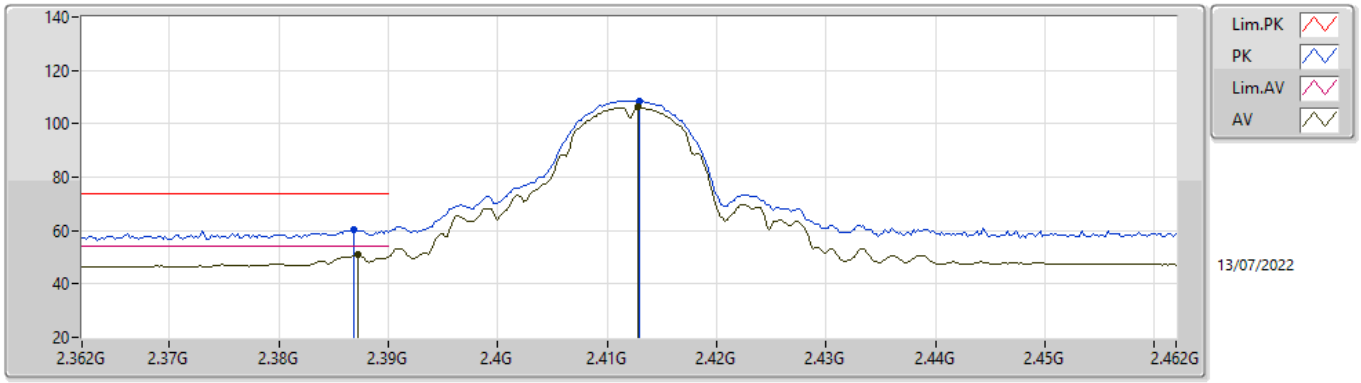
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3872G	48.00	54.00	-6.00	31.74	3	Vertical	189	2.41	-	16.26	27.37	4.37	-
AV	2.4128G	100.50	Inf	-Inf	31.85	3	Vertical	189	2.41	-	68.65	27.45	4.40	-
PK	2.3896G	59.45	74.00	-14.55	31.75	3	Vertical	189	2.41	-	27.70	27.38	4.37	-
PK	2.413G	102.95	Inf	-Inf	31.85	3	Vertical	189	2.41	-	71.10	27.45	4.40	-

802.11b_Nss1,(1Mbps)_2TX

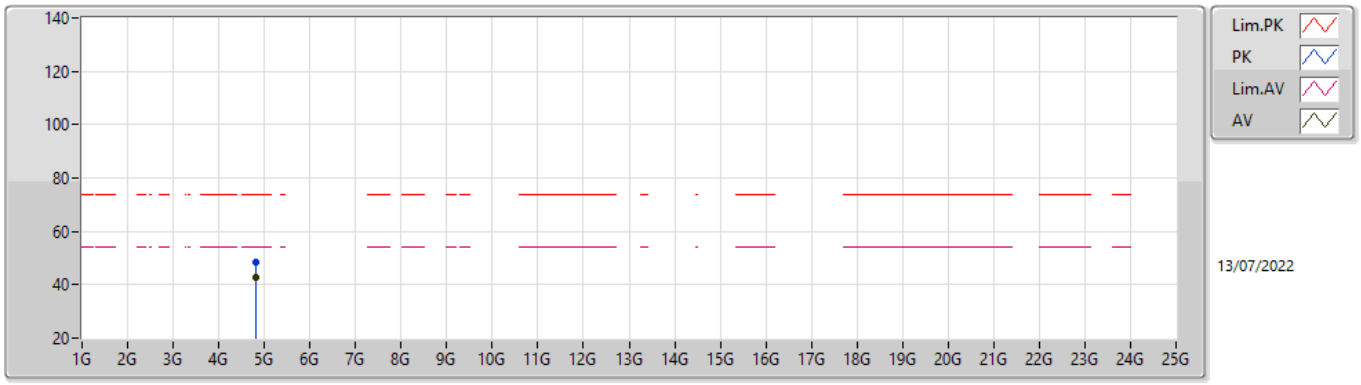
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3872G	50.82	54.00	-3.18	31.74	3	Horizontal	192	2.55	-	19.08	27.37	4.37	-
AV	2.4128G	106.20	Inf	-Inf	31.85	3	Horizontal	192	2.55	-	74.35	27.45	4.40	-
PK	2.3868G	60.22	74.00	-13.78	31.74	3	Horizontal	192	2.55	-	28.48	27.37	4.37	-
PK	2.413G	108.68	Inf	-Inf	31.85	3	Horizontal	192	2.55	-	76.83	27.45	4.40	-

802.11b_Nss1,(1Mbps)_2TX

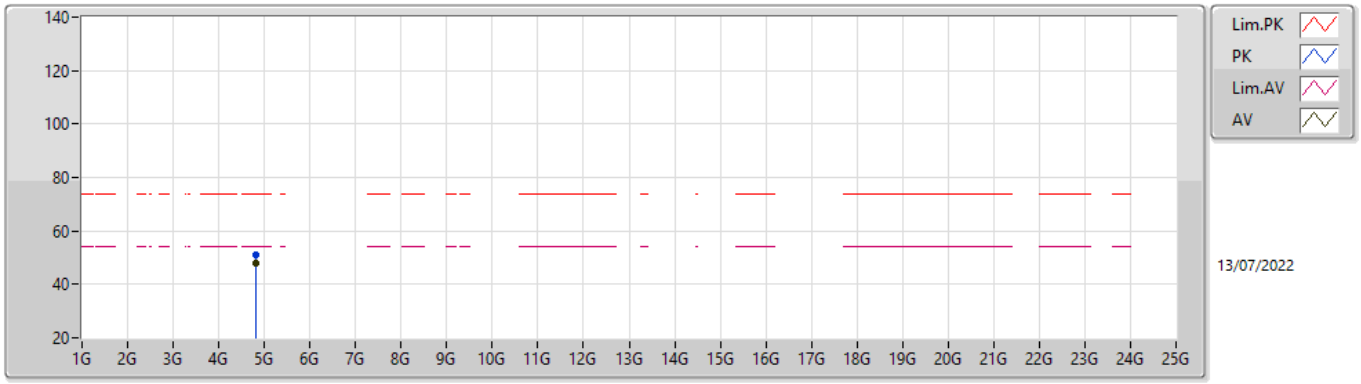
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82424G	42.98	54.00	-11.02	4.42	3	Vertical	196	1.84	-	38.56	32.60	6.27	34.45
PK	4.82424G	48.27	74.00	-25.73	4.42	3	Vertical	196	1.84	-	43.85	32.60	6.27	34.45

802.11b_Nss1,(1Mbps)_2TX

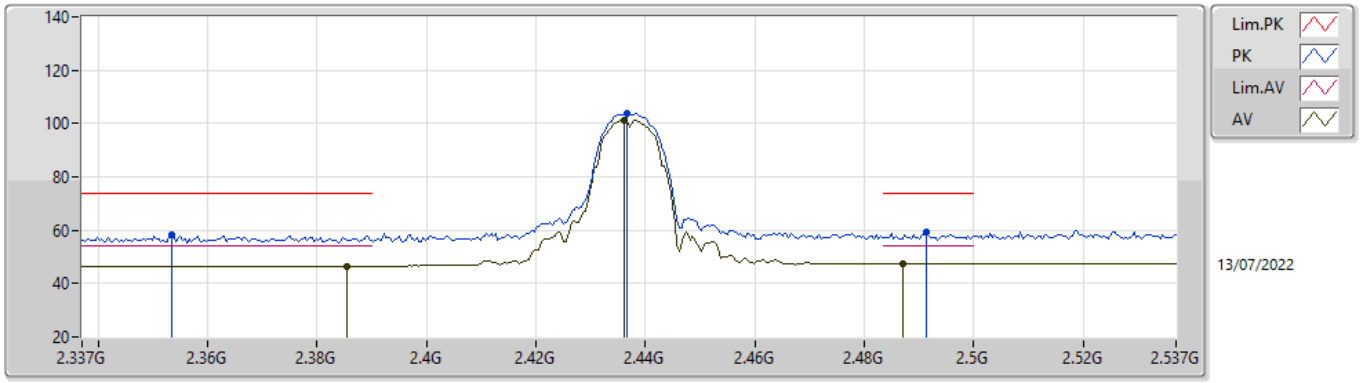
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82424G	47.91	54.00	-6.09	4.42	3	Horizontal	180	1.00	-	43.49	32.60	6.27	34.45
PK	4.82424G	51.16	74.00	-22.84	4.42	3	Horizontal	180	1.00	-	46.74	32.60	6.27	34.45

802.11b_Nss1,(1Mbps)_2TX

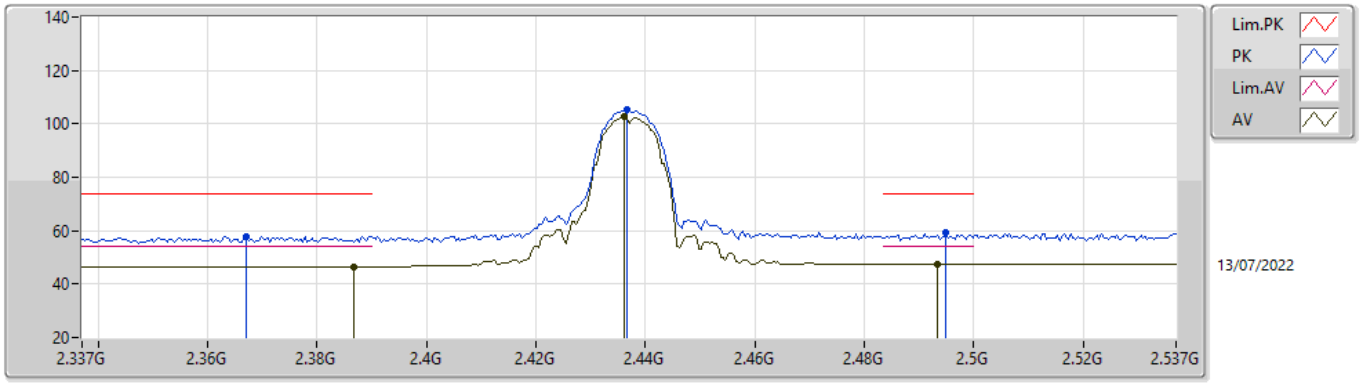
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3854G	46.52	54.00	-7.48	31.73	3	Vertical	180	2.60	-	14.79	27.37	4.36	-
AV	2.4362G	101.46	Inf	-Inf	31.97	3	Vertical	180	2.60	-	69.49	27.54	4.43	-
AV	2.487G	47.55	54.00	-6.45	32.33	3	Vertical	180	2.60	-	15.22	27.82	4.51	-
PK	2.3534G	58.14	74.00	-15.86	31.64	3	Vertical	180	2.60	-	26.50	27.31	4.33	-
PK	2.4366G	103.94	Inf	-Inf	31.98	3	Vertical	180	2.60	-	71.96	27.55	4.43	-
PK	2.4914G	59.23	74.00	-14.77	32.36	3	Vertical	180	2.60	-	26.87	27.85	4.51	-

802.11b_Nss1,(1Mbps)_2TX

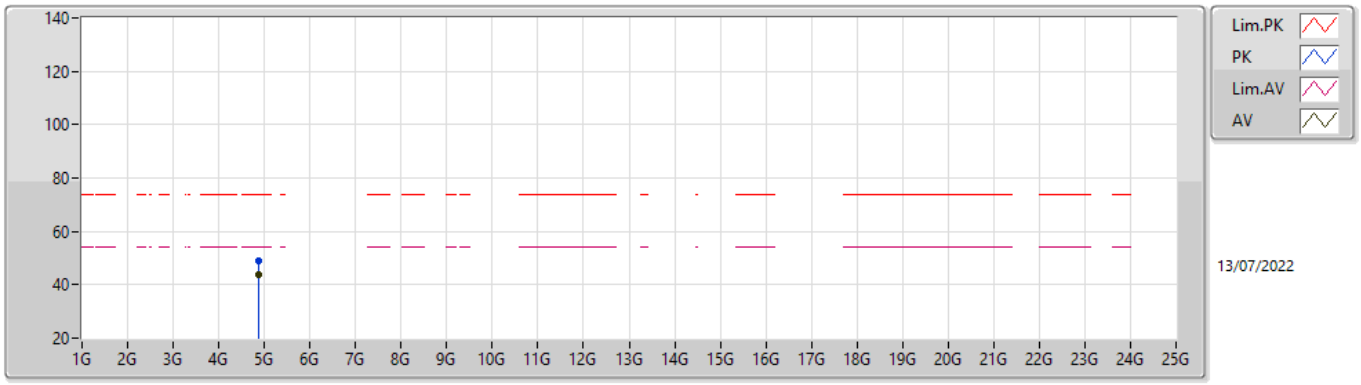
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3866G	46.54	54.00	-7.46	31.74	3	Horizontal	1	1.50	-	14.80	27.37	4.37	-
AV	2.4362G	102.53	Inf	-Inf	31.97	3	Horizontal	1	1.50	-	70.56	27.54	4.43	-
AV	2.4934G	47.58	54.00	-6.42	32.38	3	Horizontal	1	1.50	-	15.20	27.86	4.52	-
PK	2.367G	57.72	74.00	-16.28	31.68	3	Horizontal	1	1.50	-	26.04	27.33	4.35	-
PK	2.4366G	105.09	Inf	-Inf	31.98	3	Horizontal	1	1.50	-	73.11	27.55	4.43	-
PK	2.495G	59.39	74.00	-14.61	32.39	3	Horizontal	1	1.50	-	27.00	27.87	4.52	-

802.11b_Nss1,(1Mbps)_2TX

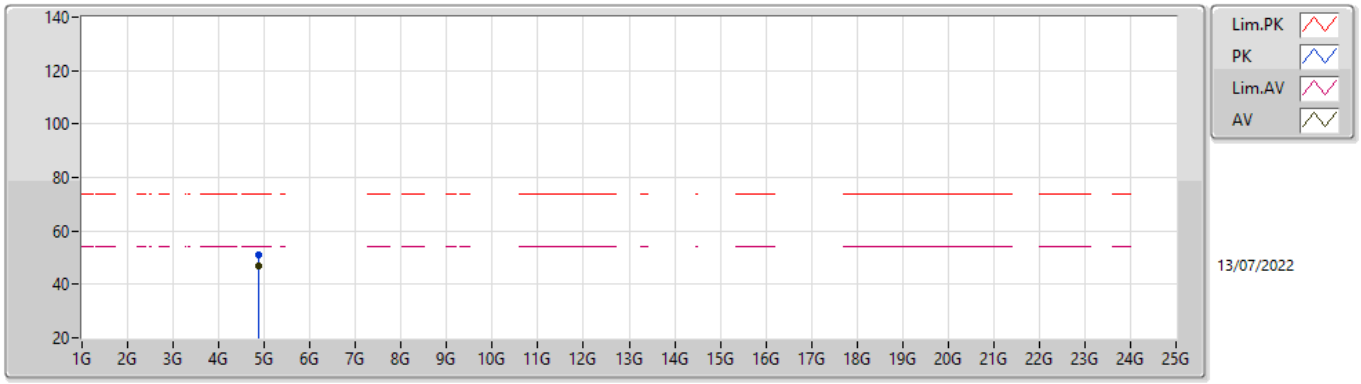
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8743G	43.79	54.00	-10.21	4.61	3	Vertical	232	2.33	-	39.18	32.75	6.30	34.44
PK	4.87414G	48.93	74.00	-25.07	4.61	3	Vertical	232	2.33	-	44.32	32.75	6.30	34.44

802.11b_Nss1,(1Mbps)_2TX

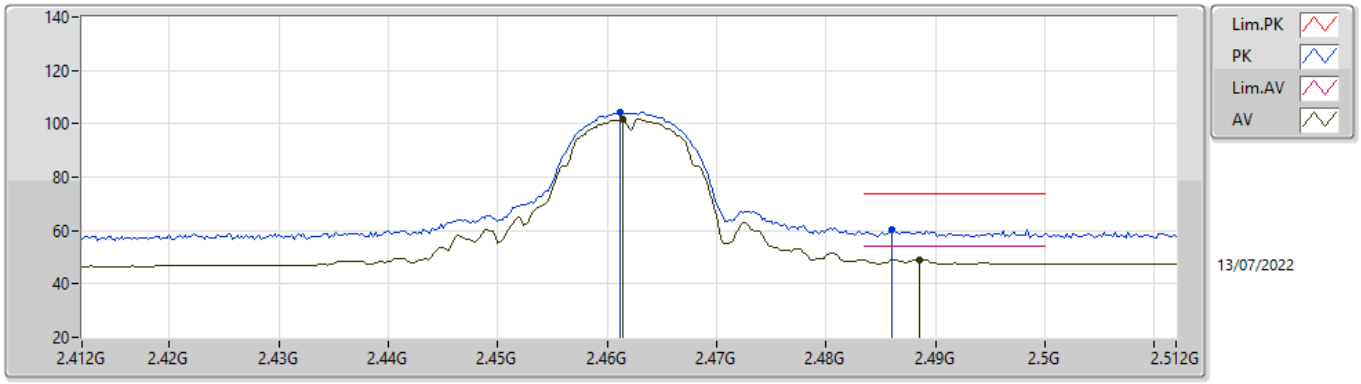
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87426G	46.66	54.00	-7.34	4.61	3	Horizontal	176	1.10	-	42.05	32.75	6.30	34.44
PK	4.87434G	50.90	74.00	-23.10	4.61	3	Horizontal	176	1.10	-	46.29	32.75	6.30	34.44

802.11b_Nss1,(1Mbps)_2TX

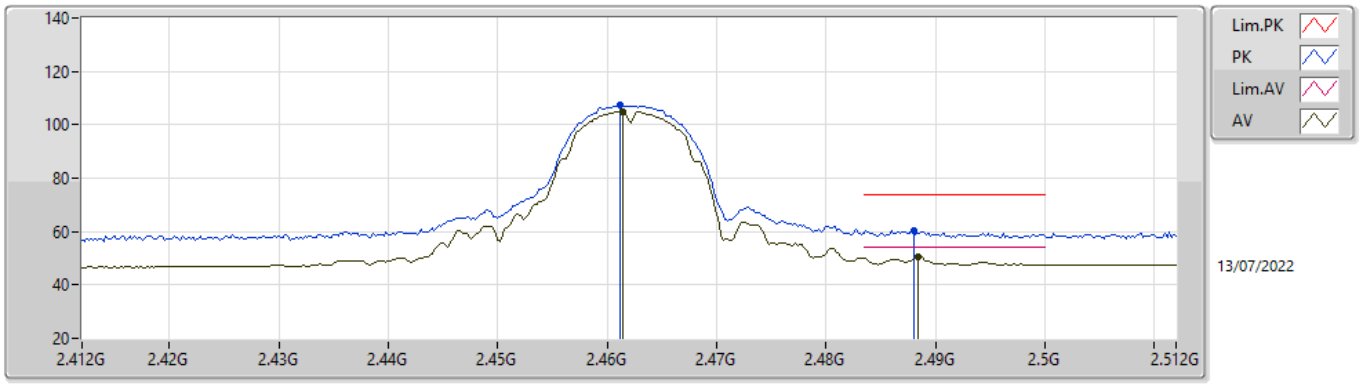
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4614G	101.68	Inf	-Inf	32.14	3	Vertical	180	2.29	-	69.54	27.67	4.47	-
AV	2.4886G	49.22	54.00	-4.78	32.34	3	Vertical	180	2.29	-	16.88	27.83	4.51	-
PK	2.4612G	104.14	Inf	-Inf	32.14	3	Vertical	180	2.29	-	72.00	27.67	4.47	-
PK	2.486G	60.48	74.00	-13.52	32.32	3	Vertical	180	2.29	-	28.16	27.82	4.50	-

802.11b_Nss1,(1Mbps)_2TX

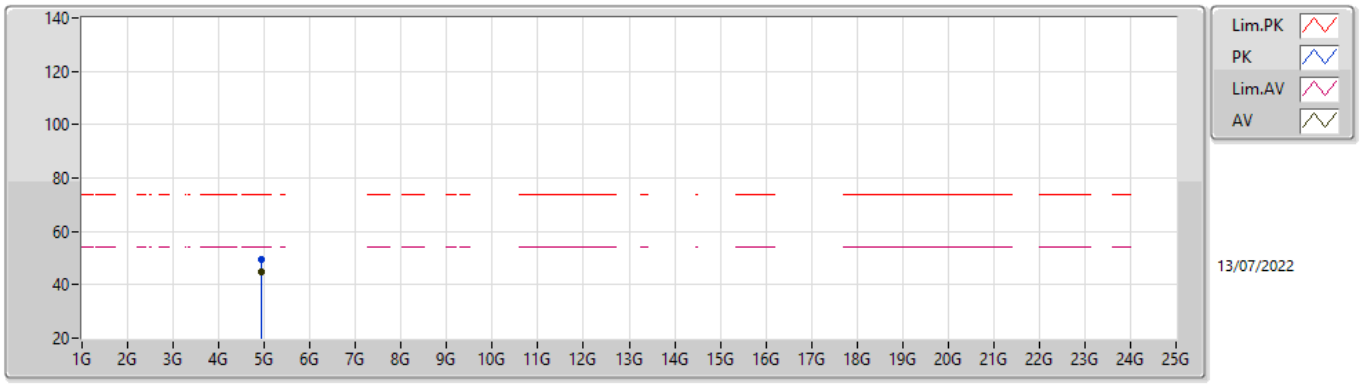
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4614G	104.90	Inf	-Inf	32.14	3	Horizontal	181	1.94	-	72.76	27.67	4.47	-
AV	2.4884G	50.62	54.00	-3.38	32.34	3	Horizontal	181	1.94	-	18.28	27.83	4.51	-
PK	2.4612G	107.39	Inf	-Inf	32.14	3	Horizontal	181	1.94	-	75.25	27.67	4.47	-
PK	2.488G	60.49	74.00	-13.51	32.34	3	Horizontal	181	1.94	-	28.15	27.83	4.51	-

802.11b_Nss1,(1Mbps)_2TX

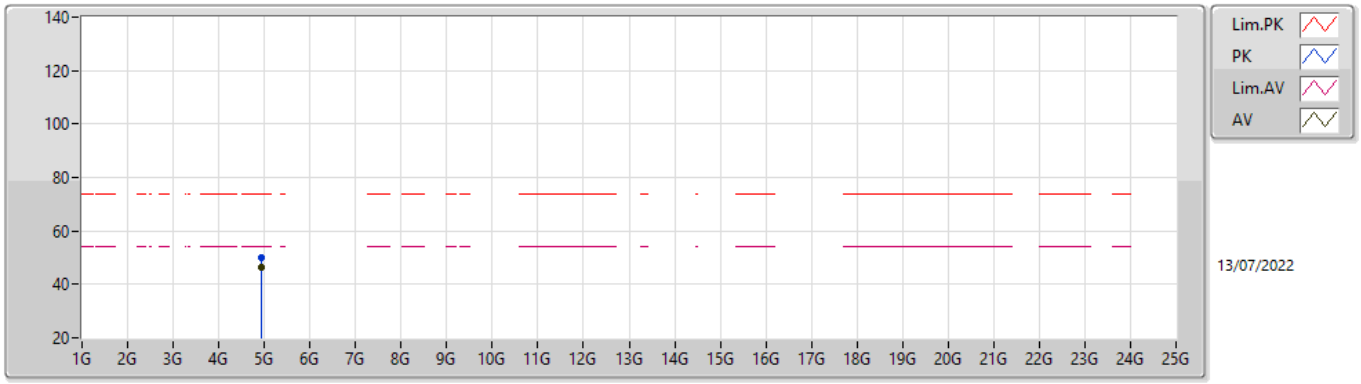
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.9243G	44.77	54.00	-9.23	4.84	3	Vertical	350	1.02	-	39.93	32.95	6.33	34.44
PK	4.92424G	49.66	74.00	-24.34	4.84	3	Vertical	350	1.02	-	44.82	32.95	6.33	34.44

802.11b_Nss1,(1Mbps)_2TX

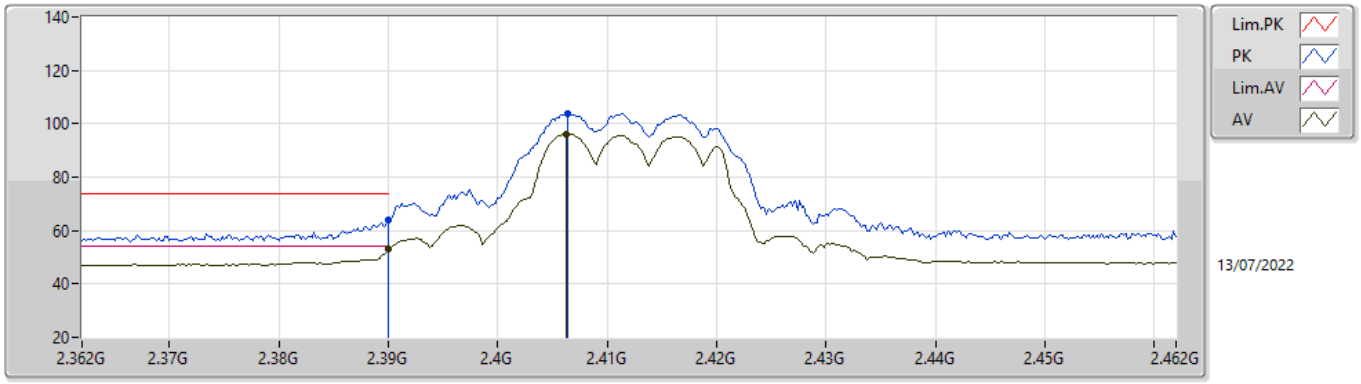
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92424G	46.15	54.00	-7.85	4.84	3	Horizontal	177	1.02	-	41.31	32.95	6.33	34.44
PK	4.92424G	50.18	74.00	-23.82	4.84	3	Horizontal	177	1.02	-	45.34	32.95	6.33	34.44

802.11g_Nss1,(6Mbps)_2TX

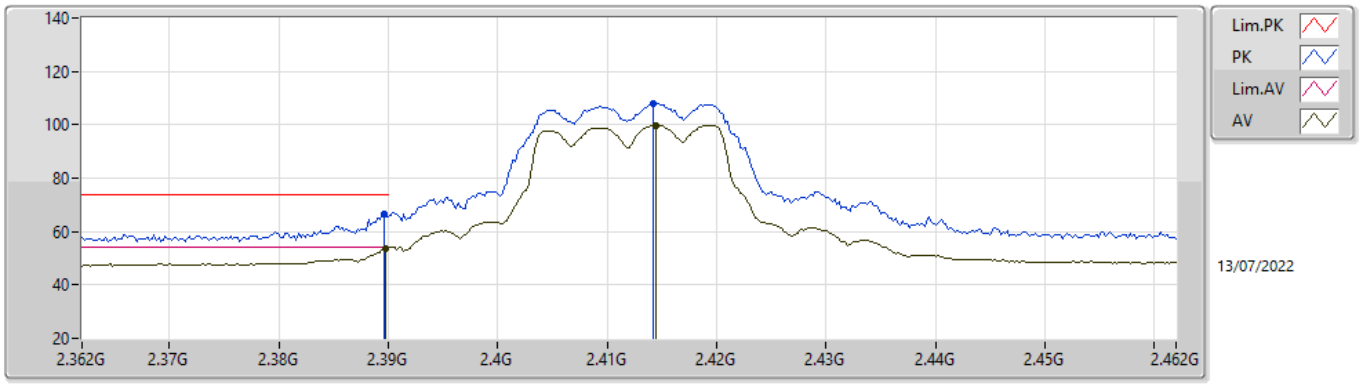
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	52.85	54.00	-1.15	31.75	3	Vertical	177	2.70	-	21.10	27.38	4.37	-
AV	2.4062G	96.00	Inf	-Inf	31.81	3	Vertical	177	2.70	-	64.19	27.42	4.39	-
PK	2.39G	63.88	74.00	-10.12	31.75	3	Vertical	177	2.70	-	32.13	27.38	4.37	-
PK	2.4064G	103.90	Inf	-Inf	31.82	3	Vertical	177	2.70	-	72.08	27.43	4.39	-

802.11g_Nss1,(6Mbps)_2TX

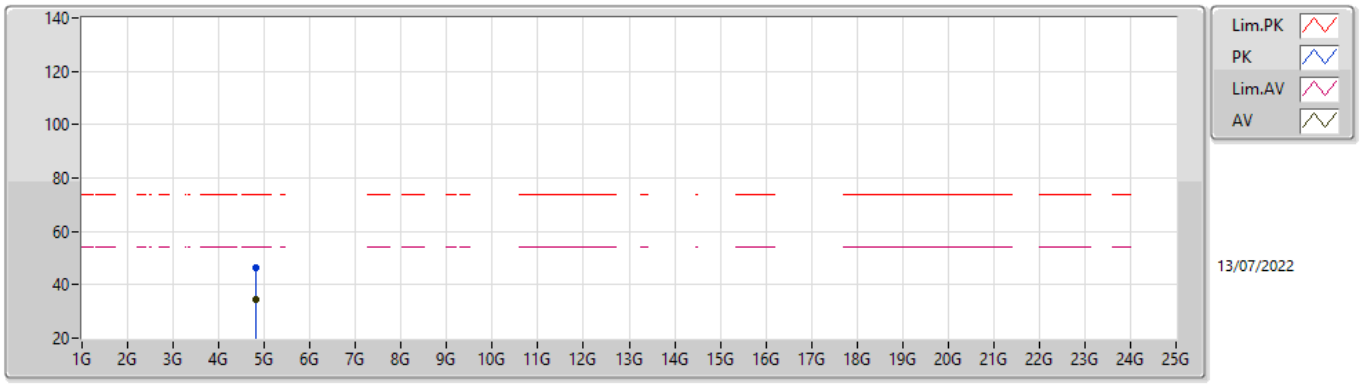
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	53.59	54.00	-0.41	31.75	3	Horizontal	338	2.56	-	21.84	27.38	4.37	-
AV	2.4144G	99.91	Inf	-Inf	31.86	3	Horizontal	338	2.56	-	68.05	27.46	4.40	-
PK	2.3896G	66.59	74.00	-7.41	31.75	3	Horizontal	338	2.56	-	34.84	27.38	4.37	-
PK	2.4142G	107.80	Inf	-Inf	31.86	3	Horizontal	338	2.56	-	75.94	27.46	4.40	-

802.11g_Nss1,(6Mbps)_2TX

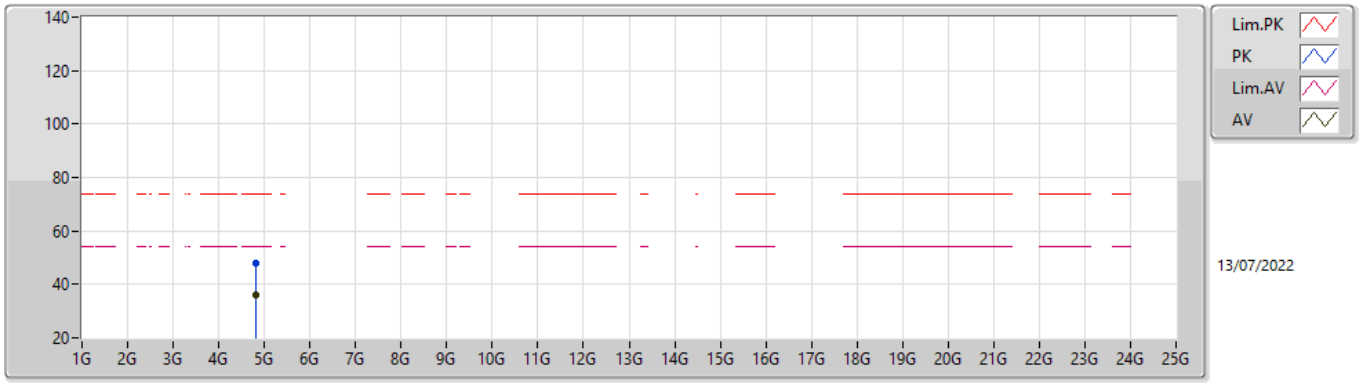
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8262G	34.39	54.00	-19.61	4.43	3	Vertical	357	1.06	-	29.96	32.60	6.28	34.45
PK	4.8256G	46.24	74.00	-27.76	4.43	3	Vertical	357	1.06	-	41.81	32.60	6.28	34.45

802.11g_Nss1,(6Mbps)_2TX

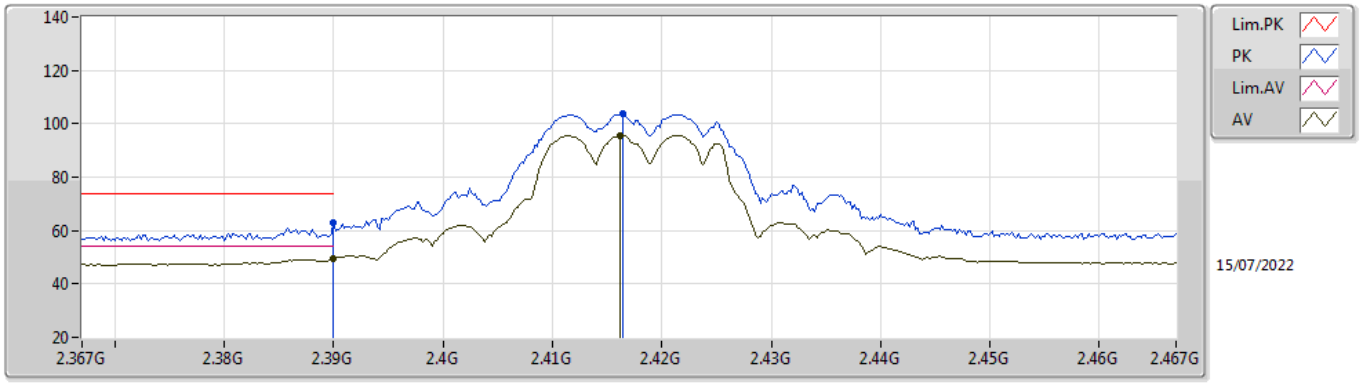
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82308G	35.97	54.00	-18.03	4.41	3	Horizontal	165	1.98	-	31.56	32.59	6.27	34.45
PK	4.82704G	48.01	74.00	-25.99	4.44	3	Horizontal	165	1.98	-	43.57	32.61	6.28	34.45

802.11g_Nss1,(6Mbps)_2TX

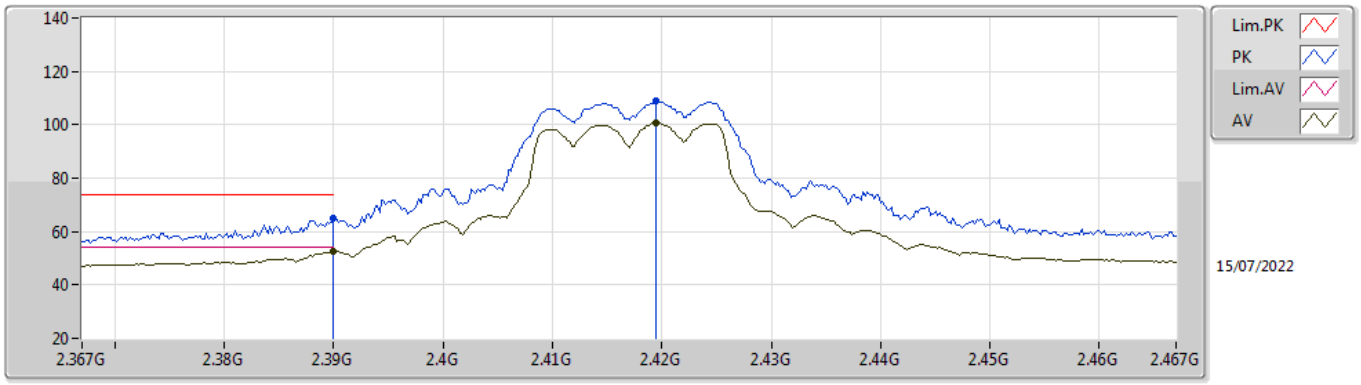
2417MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	49.46	54.00	-4.54	31.75	3	Vertical	175	2.41	-	17.71	27.38	4.37	-
AV	2.4162G	95.67	Inf	-Inf	31.86	3	Vertical	175	2.41	-	63.81	27.46	4.40	-
PK	2.39G	62.77	74.00	-11.23	31.75	3	Vertical	175	2.41	-	31.02	27.38	4.37	-
PK	2.4164G	103.55	Inf	-Inf	31.87	3	Vertical	175	2.41	-	71.68	27.47	4.40	-

802.11g_Nss1,(6Mbps)_2TX

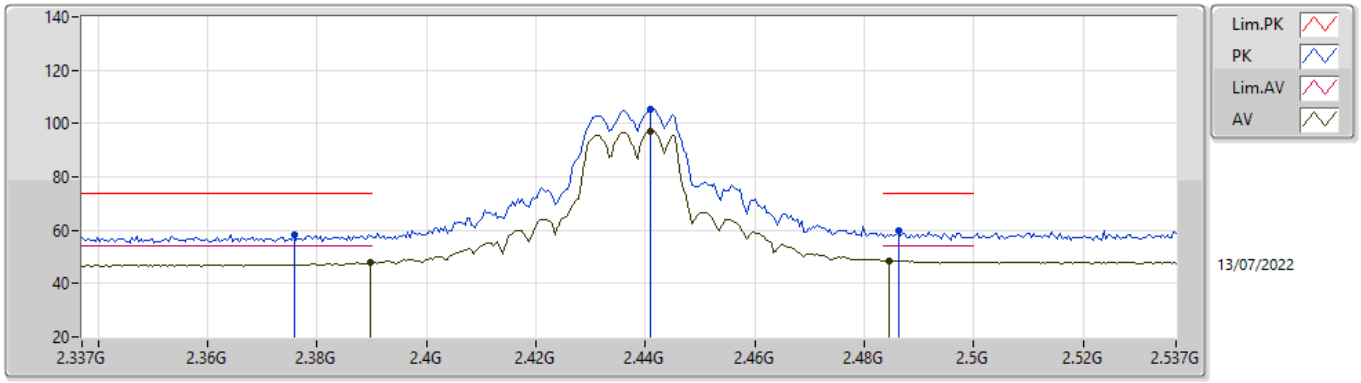
2417MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	52.33	54.00	-1.67	31.75	3	Horizontal	337	2.46	-	20.58	27.38	4.37	-
AV	2.4194G	100.55	Inf	-Inf	31.89	3	Horizontal	337	2.46	-	68.66	27.48	4.41	-
PK	2.39G	64.83	74.00	-9.17	31.75	3	Horizontal	337	2.46	-	33.08	27.38	4.37	-
PK	2.4194G	108.80	Inf	-Inf	31.89	3	Horizontal	337	2.46	-	76.91	27.48	4.41	-

802.11g_Nss1,(6Mbps)_2TX

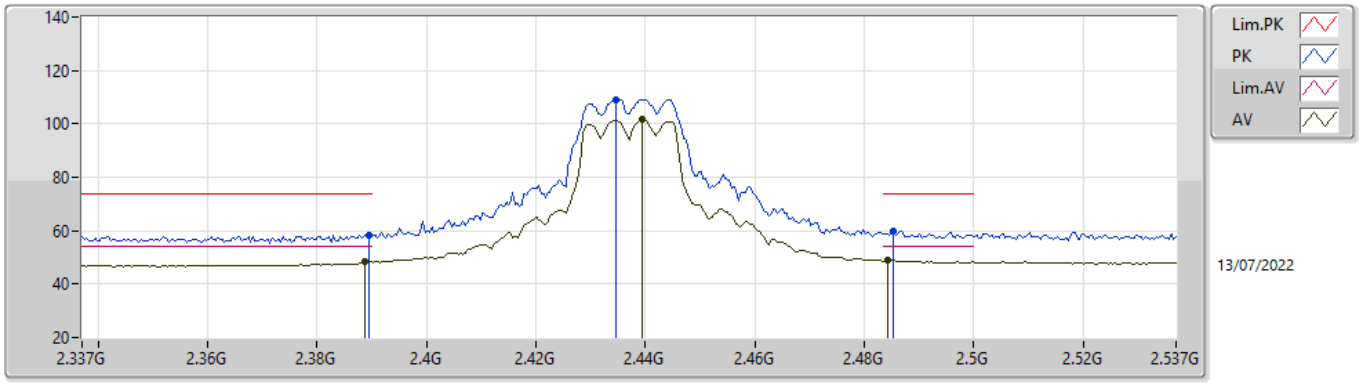
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	47.80	54.00	-6.20	31.75	3	Vertical	171	2.32	-	16.05	27.38	4.37	-
AV	2.441G	97.04	Inf	-Inf	32.00	3	Vertical	171	2.32	-	65.04	27.56	4.44	-
AV	2.4846G	48.53	54.00	-5.47	32.31	3	Vertical	171	2.32	-	16.22	27.81	4.50	-
PK	2.3758G	58.36	74.00	-15.64	31.70	3	Vertical	171	2.32	-	26.66	27.35	4.35	-
PK	2.441G	105.16	Inf	-Inf	32.00	3	Vertical	171	2.32	-	73.16	27.56	4.44	-
PK	2.4862G	59.74	74.00	-14.26	32.32	3	Vertical	171	2.32	-	27.42	27.82	4.50	-

802.11g_Nss1,(6Mbps)_2TX

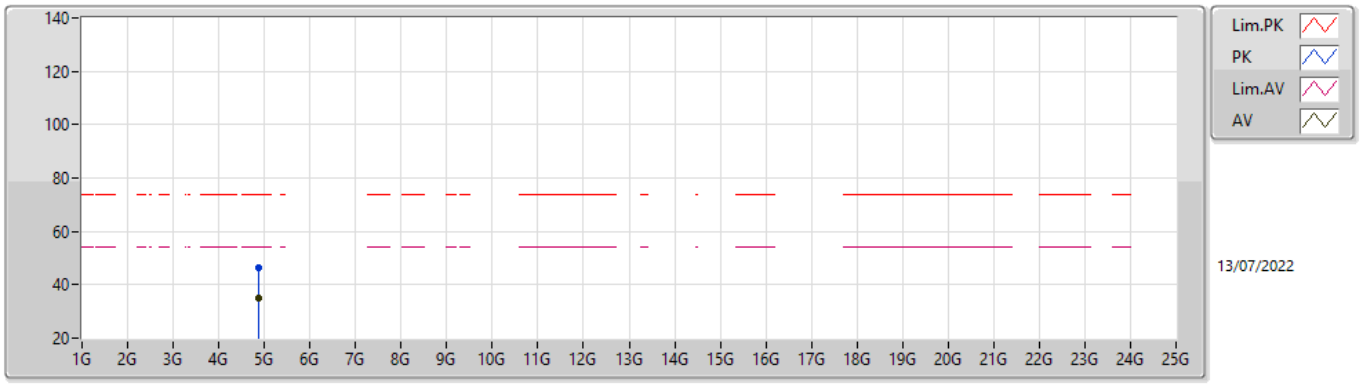
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3886G	48.24	54.00	-5.76	31.75	3	Horizontal	336	2.26	-	16.49	27.38	4.37	-
AV	2.4394G	101.53	Inf	-Inf	32.00	3	Horizontal	336	2.26	-	69.53	27.56	4.44	-
AV	2.4842G	48.76	54.00	-5.24	32.31	3	Horizontal	336	2.26	-	16.45	27.81	4.50	-
PK	2.3894G	58.44	74.00	-15.56	31.75	3	Horizontal	336	2.26	-	26.69	27.38	4.37	-
PK	2.4346G	109.15	Inf	-Inf	31.97	3	Horizontal	336	2.26	-	77.18	27.54	4.43	-
PK	2.4854G	59.92	74.00	-14.08	32.31	3	Horizontal	336	2.26	-	27.61	27.81	4.50	-

802.11g_Nss1,(6Mbps)_2TX

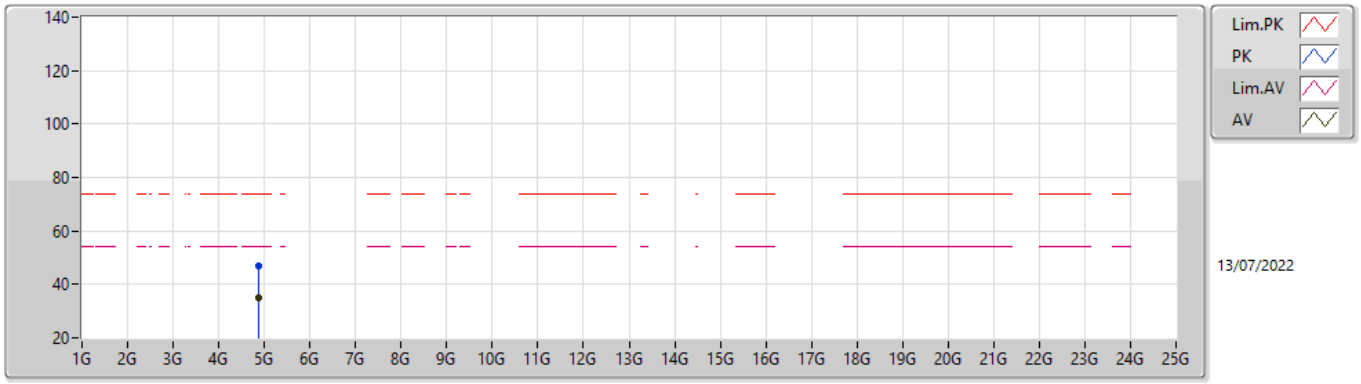
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87652G	34.88	54.00	-19.12	4.62	3	Vertical	350	1.00	-	30.26	32.75	6.31	34.44
PK	4.88078G	46.26	74.00	-27.74	4.63	3	Vertical	350	1.00	-	41.63	32.76	6.31	34.44

802.11g_Nss1,(6Mbps)_2TX

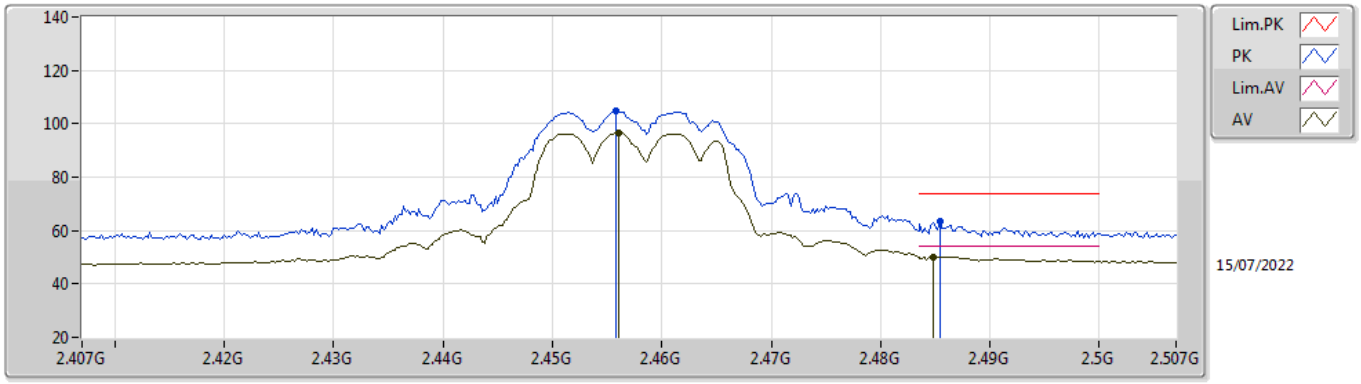
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.86986G	35.14	54.00	-18.86	4.60	3	Horizontal	173	1.01	-	30.54	32.74	6.30	34.44
PK	4.86938G	46.89	74.00	-27.11	4.60	3	Horizontal	173	1.01	-	42.29	32.74	6.30	34.44

802.11g_Nss1,(6Mbps)_2TX

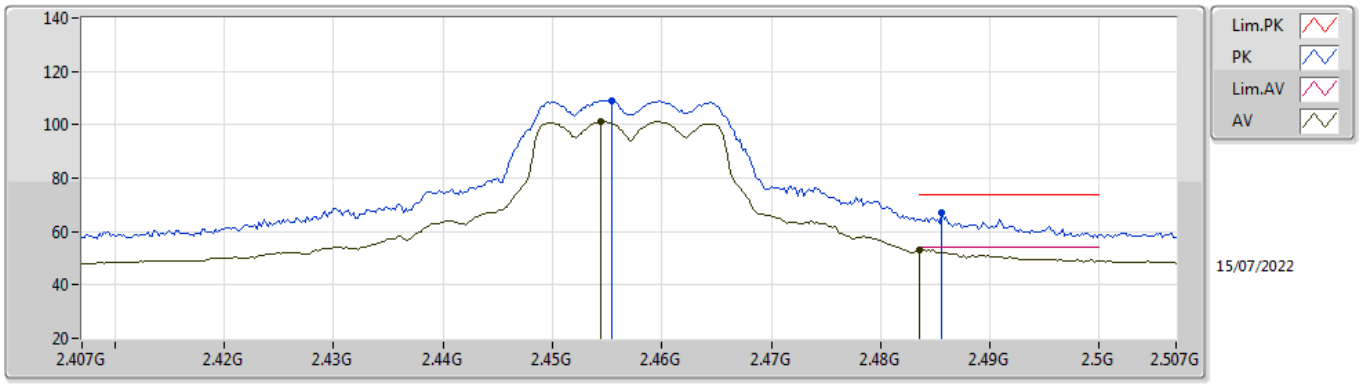
2457MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.456G	96.56	Inf	-Inf	32.10	3	Vertical	173	2.27	-	64.46	27.64	4.46	-
AV	2.4848G	50.23	54.00	-3.77	32.31	3	Vertical	173	2.27	-	17.92	27.81	4.50	-
PK	2.4558G	104.84	Inf	-Inf	32.09	3	Vertical	173	2.27	-	72.75	27.63	4.46	-
PK	2.4854G	63.49	74.00	-10.51	32.31	3	Vertical	173	2.27	-	31.18	27.81	4.50	-

802.11g_Nss1,(6Mbps)_2TX

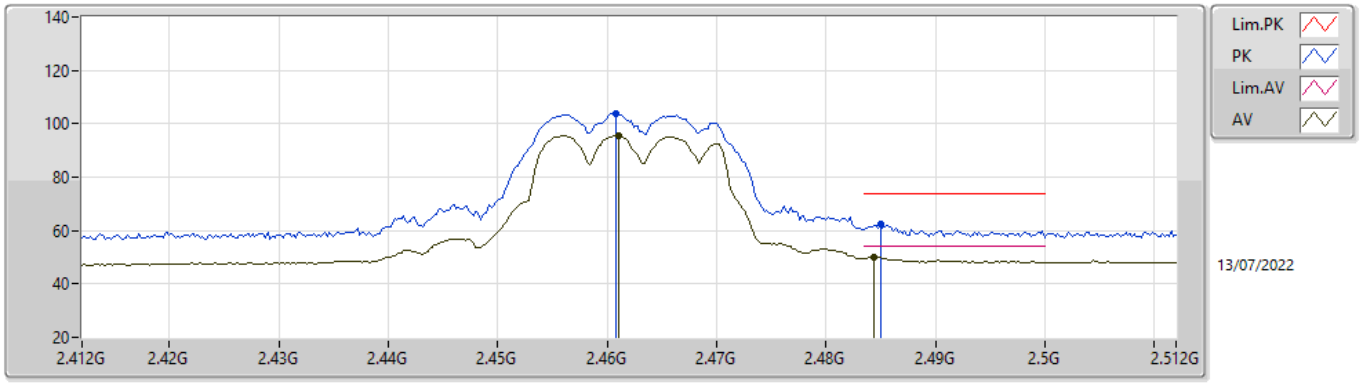
2457MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4544G	101.03	Inf	-Inf	32.09	3	Horizontal	336	2.74	-	68.94	27.63	4.46	-
AV	2.4836G	53.14	54.00	-0.86	32.30	3	Horizontal	336	2.74	-	20.84	27.80	4.50	-
PK	2.4554G	108.93	Inf	-Inf	32.09	3	Horizontal	336	2.74	-	76.84	27.63	4.46	-
PK	2.4856G	66.84	74.00	-7.16	32.31	3	Horizontal	336	2.74	-	34.53	27.81	4.50	-

802.11g_Nss1,(6Mbps)_2TX

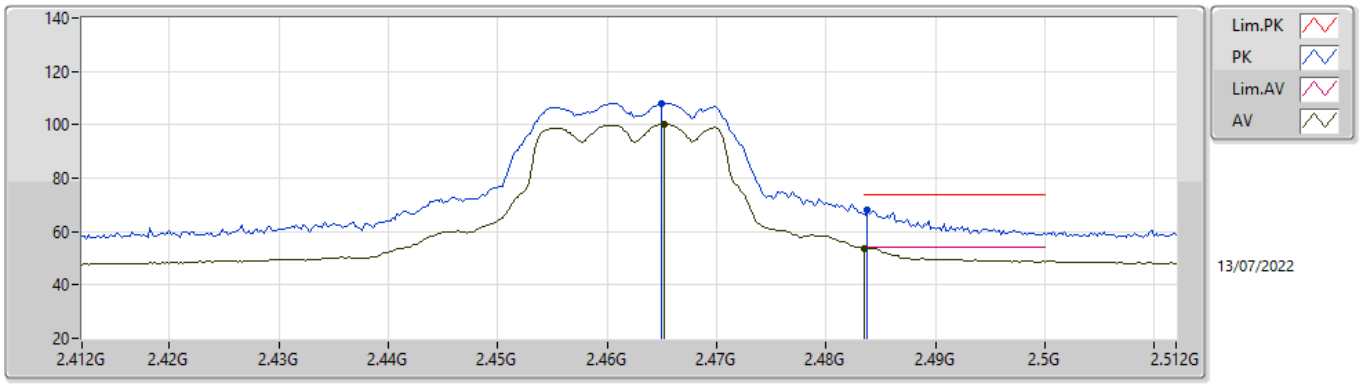
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.461G	95.56	Inf	-Inf	32.14	3	Vertical	170	2.28	-	63.42	27.67	4.47	-
AV	2.4844G	50.03	54.00	-3.97	32.31	3	Vertical	170	2.28	-	17.72	27.81	4.50	-
PK	2.4608G	104.00	Inf	-Inf	32.13	3	Vertical	170	2.28	-	71.87	27.66	4.47	-
PK	2.485G	62.33	74.00	-11.67	32.31	3	Vertical	170	2.28	-	30.02	27.81	4.50	-

802.11g_Nss1,(6Mbps)_2TX

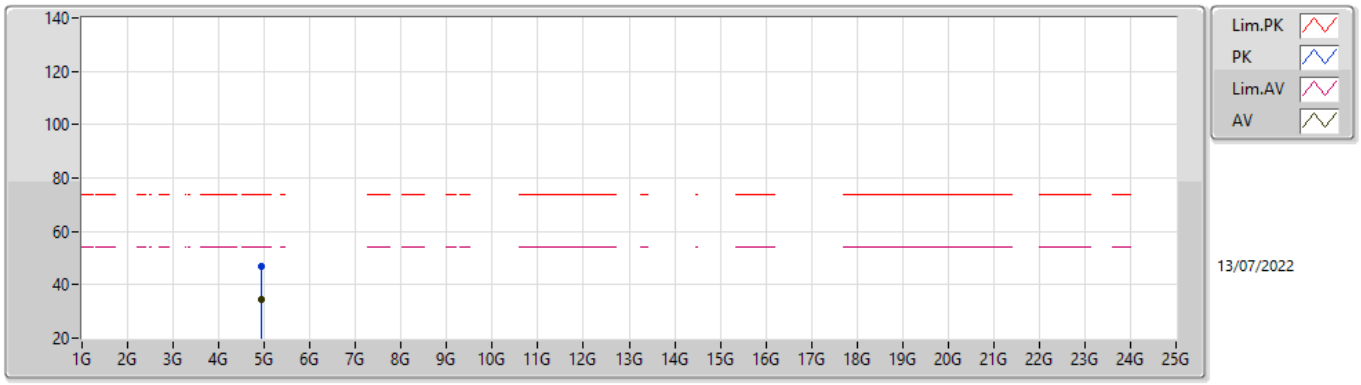
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4652G	100.25	Inf	-Inf	32.16	3	Horizontal	349	1.46	-	68.09	27.69	4.47	-
AV	2.4835G	53.68	54.00	-0.32	32.30	3	Horizontal	349	1.46	-	21.38	27.80	4.50	-
PK	2.465G	108.15	Inf	-Inf	32.16	3	Horizontal	349	1.46	-	75.99	27.69	4.47	-
PK	2.4838G	67.85	74.00	-6.15	32.30	3	Horizontal	349	1.46	-	35.55	27.80	4.50	-

802.11g_Nss1,(6Mbps)_2TX

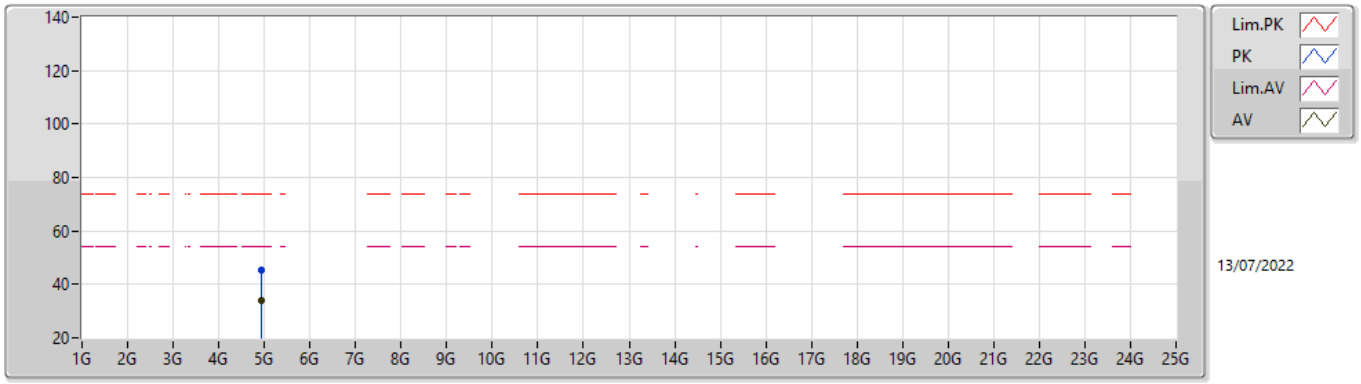
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.9261G	34.50	54.00	-19.50	4.86	3	Vertical	355	1.01	-	29.64	32.96	6.34	34.44
PK	4.92172G	46.68	74.00	-27.32	4.82	3	Vertical	355	1.01	-	41.86	32.93	6.33	34.44

802.11g_Nss1,(6Mbps)_2TX

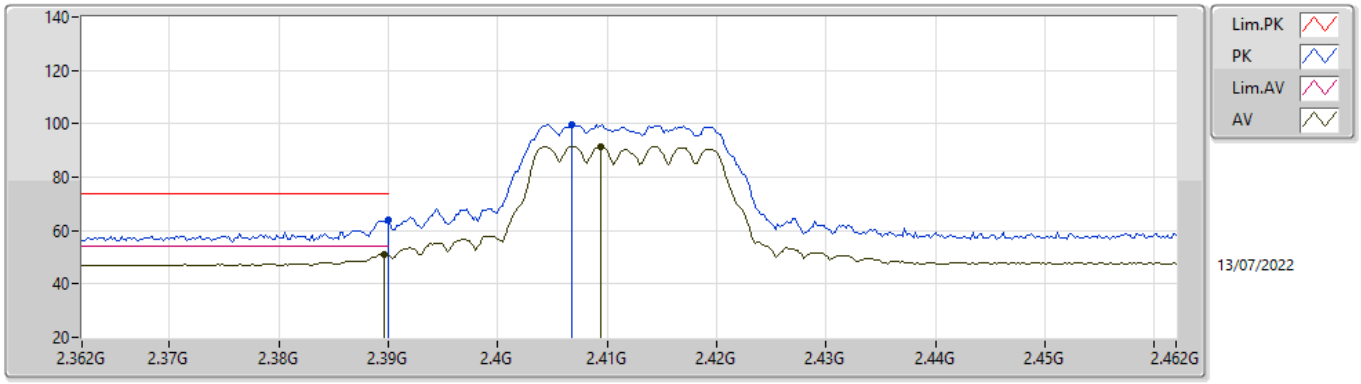
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.9249G	34.10	54.00	-19.90	4.84	3	Horizontal	174	1.45	-	29.26	32.95	6.33	34.44
PK	4.92364G	45.24	74.00	-28.76	4.83	3	Horizontal	174	1.45	-	40.41	32.94	6.33	34.44

802.11n HT20_Nss1,(MCS0)_2TX

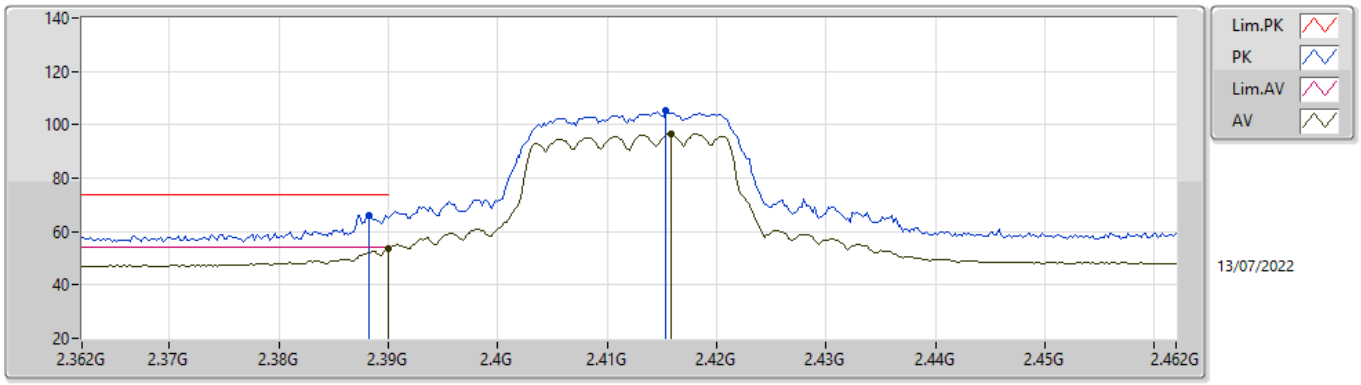
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3896G	51.16	54.00	-2.84	31.75	3	Vertical	179	2.13	-	19.41	27.38	4.37	-
AV	2.4094G	91.45	Inf	-Inf	31.83	3	Vertical	179	2.13	-	59.62	27.44	4.39	-
PK	2.39G	63.91	74.00	-10.09	31.75	3	Vertical	179	2.13	-	32.16	27.38	4.37	-
PK	2.4068G	99.75	Inf	-Inf	31.82	3	Vertical	179	2.13	-	67.93	27.43	4.39	-

802.11n HT20_Nss1,(MCS0)_2TX

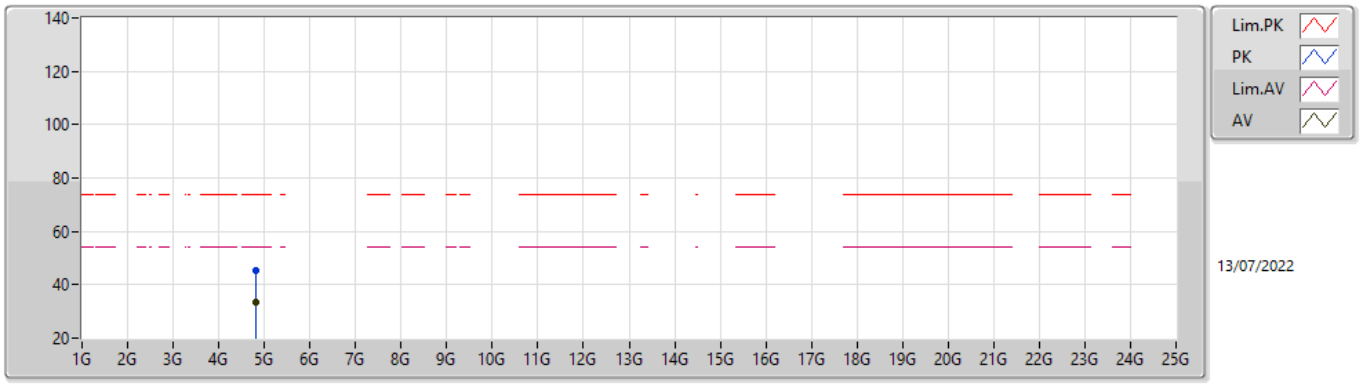
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	53.47	54.00	-0.53	31.75	3	Horizontal	338	2.57	-	21.72	27.38	4.37	-
AV	2.4158G	96.47	Inf	-Inf	31.86	3	Horizontal	338	2.57	-	64.61	27.46	4.40	-
PK	2.3882G	66.28	74.00	-7.72	31.75	3	Horizontal	338	2.57	-	34.53	27.38	4.37	-
PK	2.4154G	105.09	Inf	-Inf	31.86	3	Horizontal	338	2.57	-	73.23	27.46	4.40	-

802.11n HT20_Nss1,(MCS0)_2TX

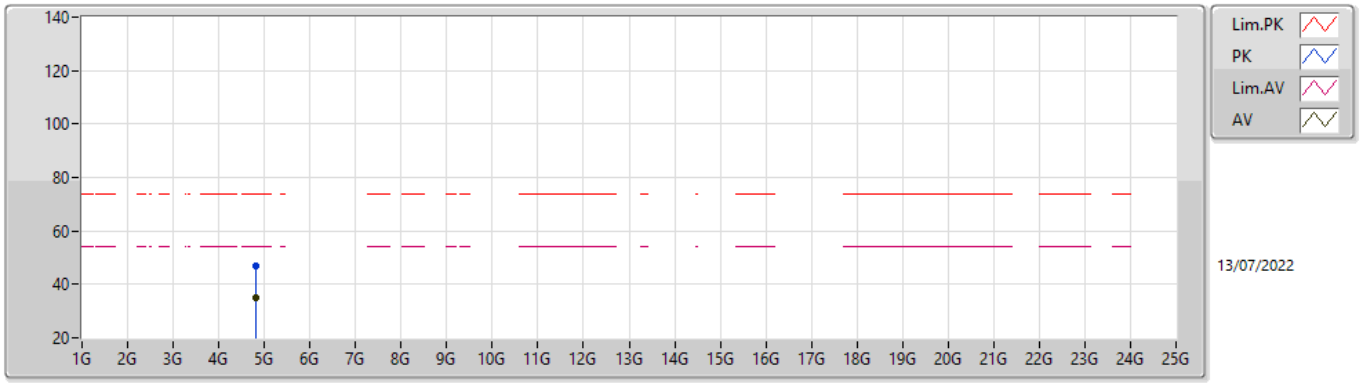
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82508G	33.37	54.00	-20.63	4.43	3	Vertical	353	1.03	-	28.94	32.60	6.28	34.45
PK	4.81998G	45.24	74.00	-28.76	4.40	3	Vertical	353	1.03	-	40.84	32.58	6.27	34.45

802.11n HT20_Nss1,(MCS0)_2TX

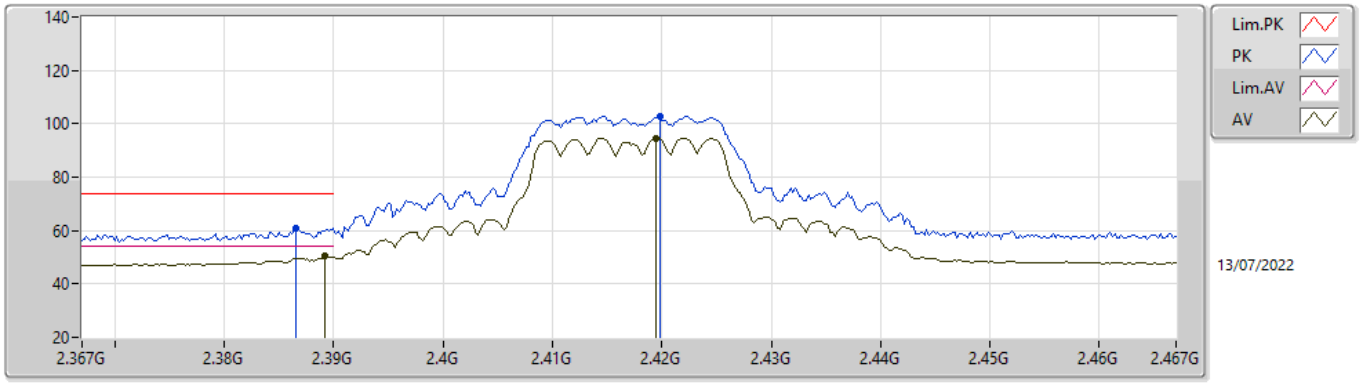
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8243G	34.89	54.00	-19.11	4.42	3	Horizontal	176	1.00	-	30.47	32.60	6.27	34.45
PK	4.824G	46.65	74.00	-27.35	4.42	3	Horizontal	176	1.00	-	42.23	32.60	6.27	34.45

802.11n HT20_Nss1,(MCS0)_2TX

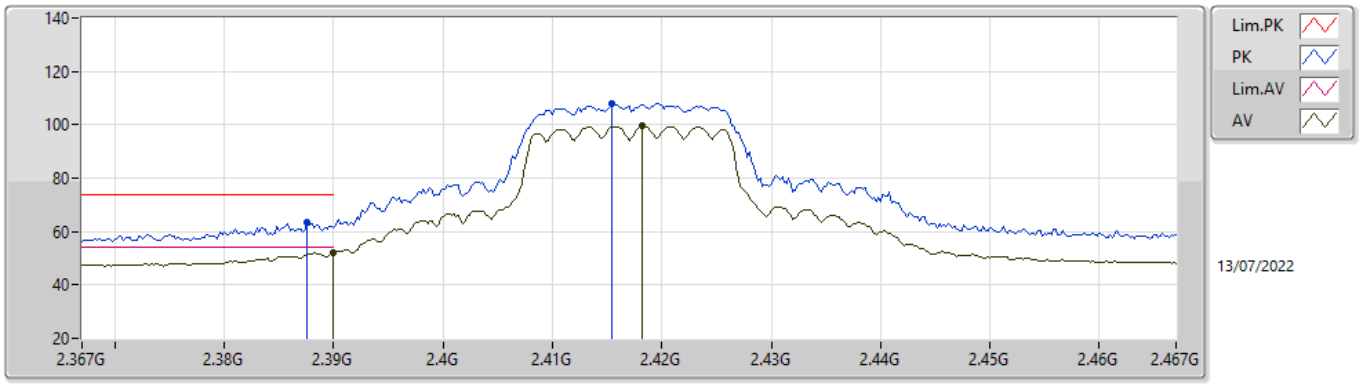
2417MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3892G	50.35	54.00	-3.65	31.75	3	Vertical	181	2.06	-	18.60	27.38	4.37	-
AV	2.4194G	94.57	Inf	-Inf	31.89	3	Vertical	181	2.06	-	62.68	27.48	4.41	-
PK	2.3866G	60.69	74.00	-13.31	31.74	3	Vertical	181	2.06	-	28.95	27.37	4.37	-
PK	2.4198G	102.77	Inf	-Inf	31.89	3	Vertical	181	2.06	-	70.88	27.48	4.41	-

802.11n HT20_Nss1,(MCS0)_2TX

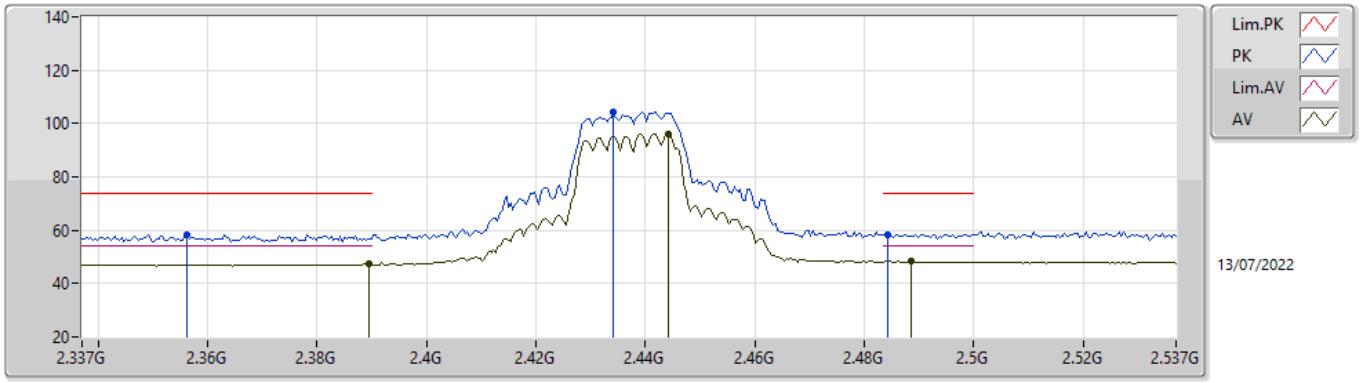
2417MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	52.19	54.00	-1.81	31.75	3	Horizontal	339	2.56	-	20.44	27.38	4.37	-
AV	2.4182G	99.47	Inf	-Inf	31.88	3	Horizontal	339	2.56	-	67.59	27.47	4.41	-
PK	2.3876G	63.57	74.00	-10.43	31.75	3	Horizontal	339	2.56	-	31.82	27.38	4.37	-
PK	2.4154G	108.00	Inf	-Inf	31.86	3	Horizontal	339	2.56	-	76.14	27.46	4.40	-

802.11n HT20_Nss1,(MCS0)_2TX

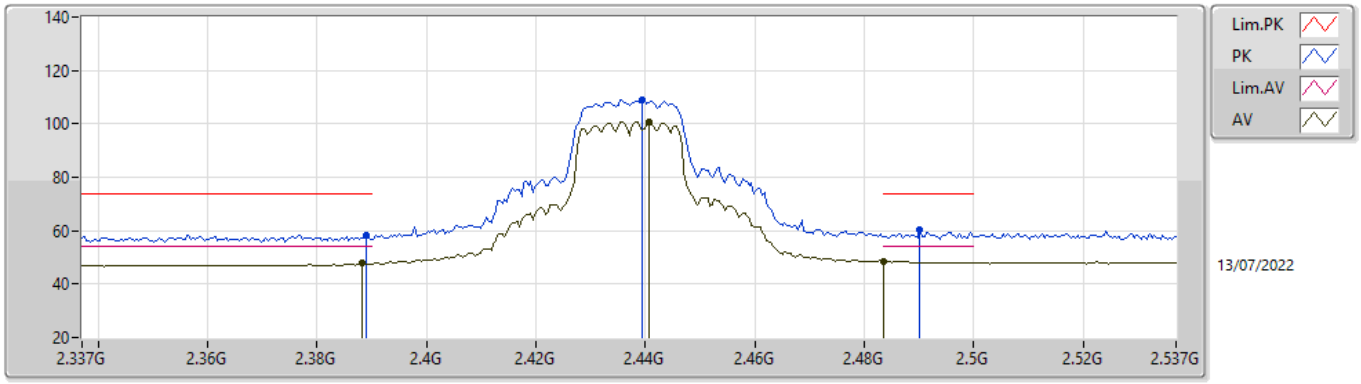
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3894G	47.33	54.00	-6.67	31.75	3	Vertical	172	2.31	-	15.58	27.38	4.37	-
AV	2.4442G	96.04	Inf	-Inf	32.02	3	Vertical	172	2.31	-	64.02	27.58	4.44	-
AV	2.4886G	48.31	54.00	-5.69	32.34	3	Vertical	172	2.31	-	15.97	27.83	4.51	-
PK	2.3562G	58.39	74.00	-15.61	31.64	3	Vertical	172	2.31	-	26.75	27.31	4.33	-
PK	2.4342G	104.52	Inf	-Inf	31.97	3	Vertical	172	2.31	-	72.55	27.54	4.43	-
PK	2.4842G	58.49	74.00	-15.51	32.31	3	Vertical	172	2.31	-	26.18	27.81	4.50	-

802.11n HT20_Nss1,(MCS0)_2TX

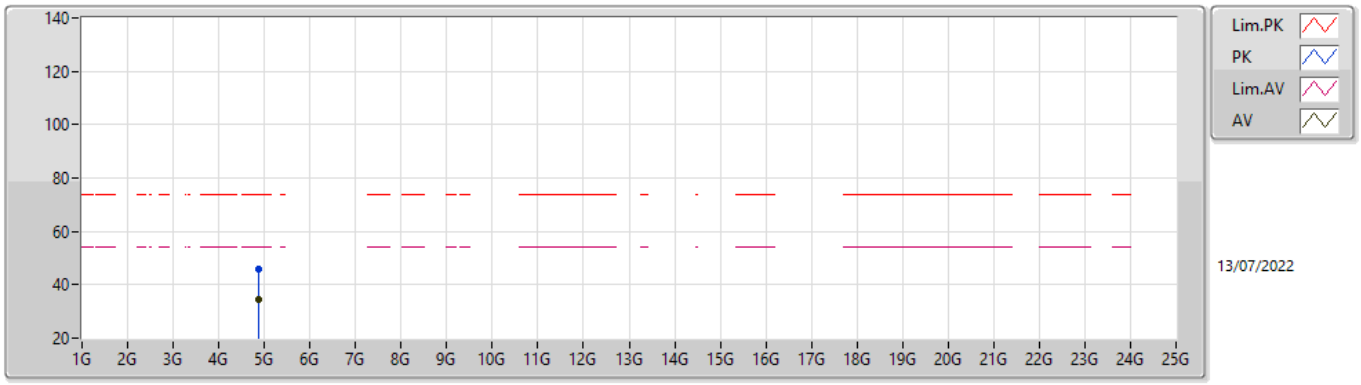
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3882G	47.79	54.00	-6.21	31.75	3	Horizontal	338	2.25	-	16.04	27.38	4.37	-
AV	2.4406G	100.67	Inf	-Inf	32.00	3	Horizontal	338	2.25	-	68.67	27.56	4.44	-
AV	2.4835G	48.52	54.00	-5.48	32.30	3	Horizontal	338	2.25	-	16.22	27.80	4.50	-
PK	2.389G	58.44	74.00	-15.56	31.75	3	Horizontal	338	2.25	-	26.69	27.38	4.37	-
PK	2.4394G	109.18	Inf	-Inf	32.00	3	Horizontal	338	2.25	-	77.18	27.56	4.44	-
PK	2.4902G	60.32	74.00	-13.68	32.35	3	Horizontal	338	2.25	-	27.97	27.84	4.51	-

802.11n HT20_Nss1,(MCS0)_2TX

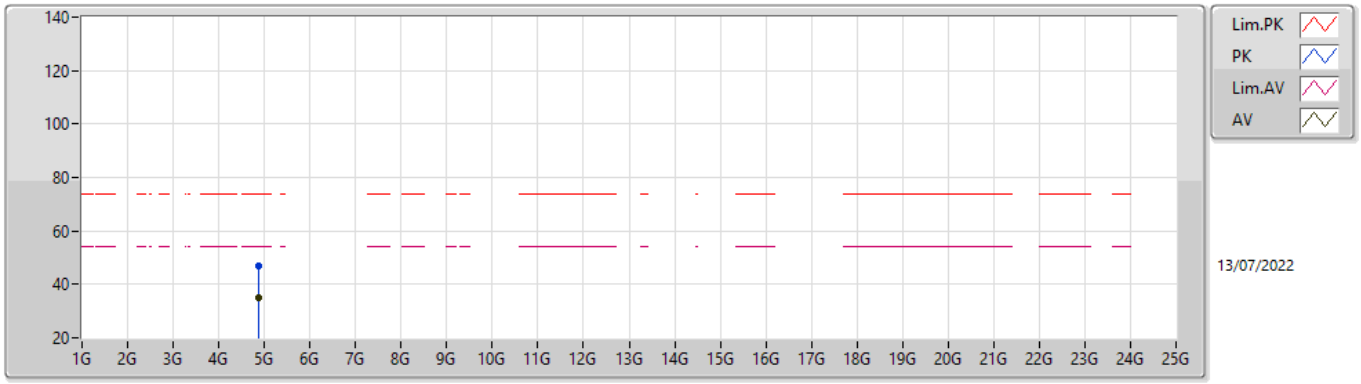
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87502G	34.55	54.00	-19.45	4.62	3	Vertical	351	1.00	-	29.93	32.75	6.31	34.44
PK	4.87376G	46.11	74.00	-27.89	4.61	3	Vertical	351	1.00	-	41.50	32.75	6.30	34.44

802.11n HT20_Nss1,(MCS0)_2TX

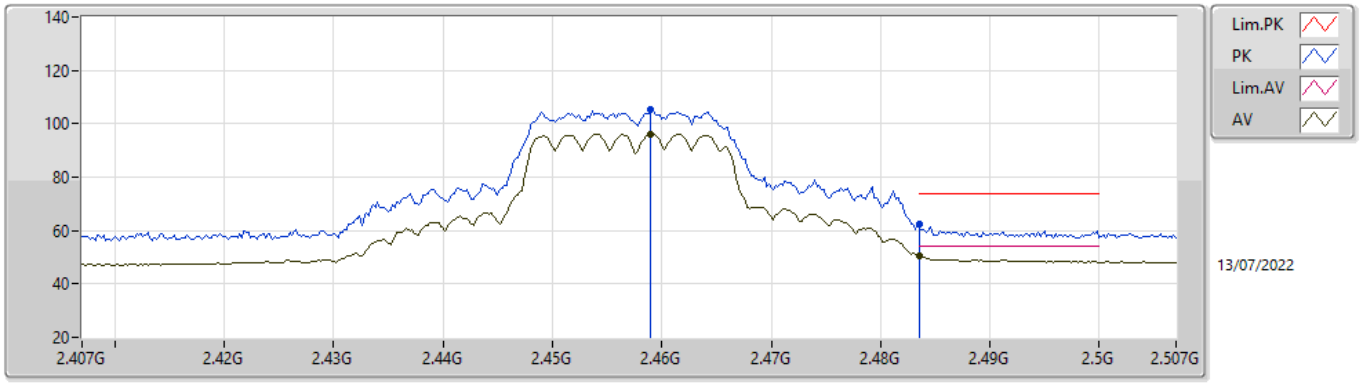
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8743G	34.86	54.00	-19.14	4.61	3	Horizontal	173	1.03	-	30.25	32.75	6.30	34.44
PK	4.86932G	46.86	74.00	-27.14	4.60	3	Horizontal	173	1.03	-	42.26	32.74	6.30	34.44

802.11n HT20_Nss1,(MCS0)_2TX

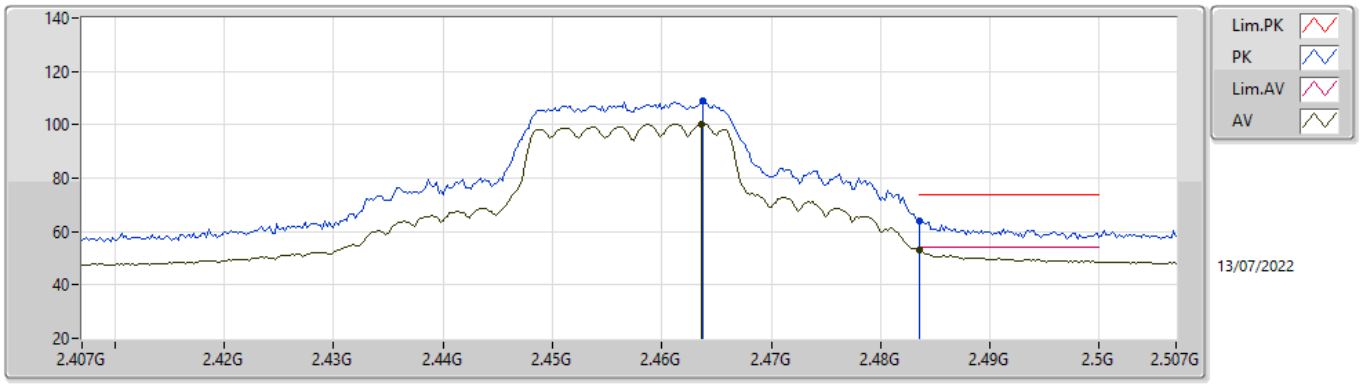
2457MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.459G	96.08	Inf	-Inf	32.12	3	Vertical	170	2.25	-	63.96	27.65	4.47	-
AV	2.4835G	50.41	54.00	-3.59	32.30	3	Vertical	170	2.25	-	18.11	27.80	4.50	-
PK	2.459G	105.45	Inf	-Inf	32.12	3	Vertical	170	2.25	-	73.33	27.65	4.47	-
PK	2.4835G	62.22	74.00	-11.78	32.30	3	Vertical	170	2.25	-	29.92	27.80	4.50	-

802.11n HT20_Nss1,(MCS0)_2TX

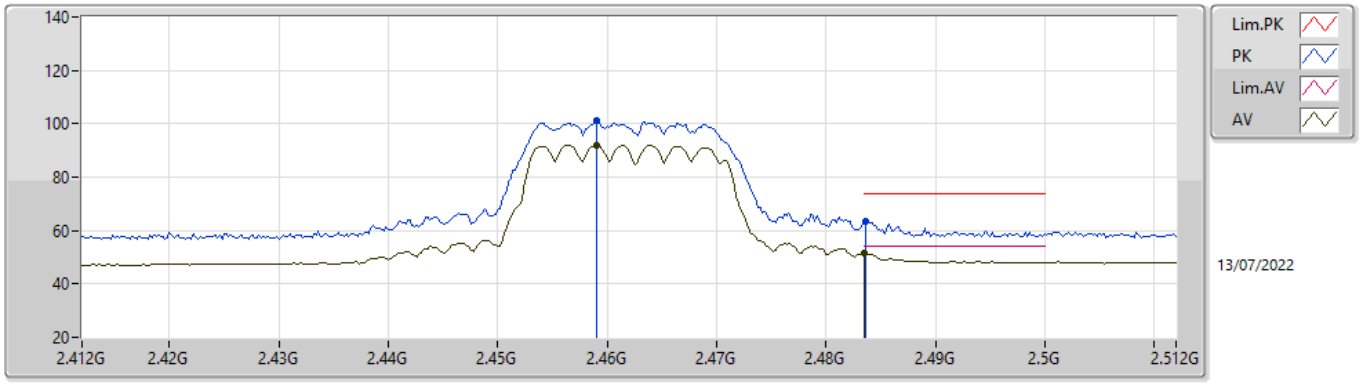
2457MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4636G	100.34	Inf	-Inf	32.15	3	Horizontal	350	1.47	-	68.19	27.68	4.47	-
AV	2.4835G	53.28	54.00	-0.72	32.30	3	Horizontal	350	1.47	-	20.98	27.80	4.50	-
PK	2.4638G	108.96	Inf	-Inf	32.15	3	Horizontal	350	1.47	-	76.81	27.68	4.47	-
PK	2.4835G	63.93	74.00	-10.07	32.30	3	Horizontal	350	1.47	-	31.63	27.80	4.50	-

802.11n HT20_Nss1,(MCS0)_2TX

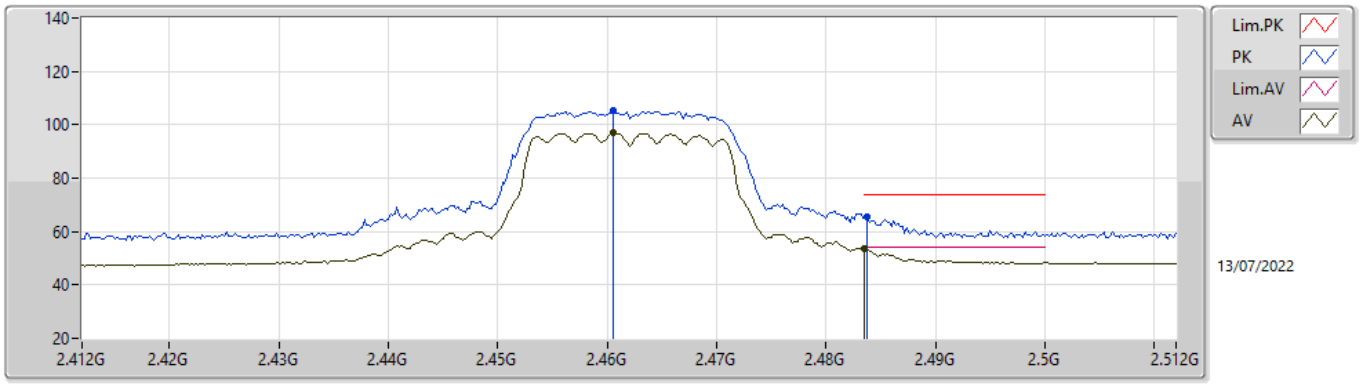
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.459G	91.94	Inf	-Inf	32.12	3	Vertical	171	2.27	-	59.82	27.65	4.47	-
AV	2.4835G	51.47	54.00	-2.53	32.30	3	Vertical	171	2.27	-	19.17	27.80	4.50	-
PK	2.459G	101.43	Inf	-Inf	32.12	3	Vertical	171	2.27	-	69.31	27.65	4.47	-
PK	2.4836G	63.52	74.00	-10.48	32.30	3	Vertical	171	2.27	-	31.22	27.80	4.50	-

802.11n HT20_Nss1,(MCS0)_2TX

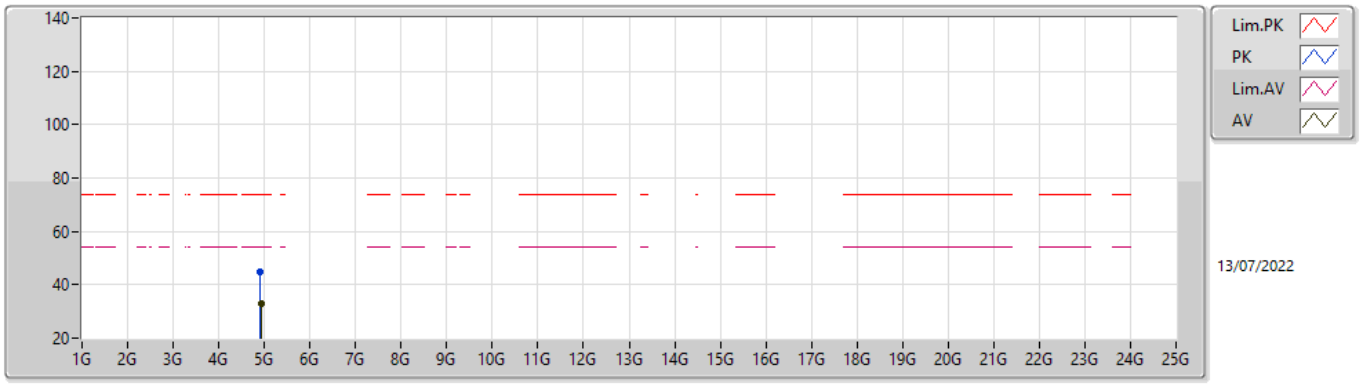
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4606G	96.82	Inf	-Inf	32.13	3	Horizontal	337	1.93	-	64.69	27.66	4.47	-
AV	2.4835G	53.41	54.00	-0.59	32.30	3	Horizontal	337	1.93	-	21.11	27.80	4.50	-
PK	2.4606G	105.20	Inf	-Inf	32.13	3	Horizontal	337	1.93	-	73.07	27.66	4.47	-
PK	2.4838G	65.65	74.00	-8.35	32.30	3	Horizontal	337	1.93	-	33.35	27.80	4.50	-

802.11n HT20_Nss1,(MCS0)_2TX

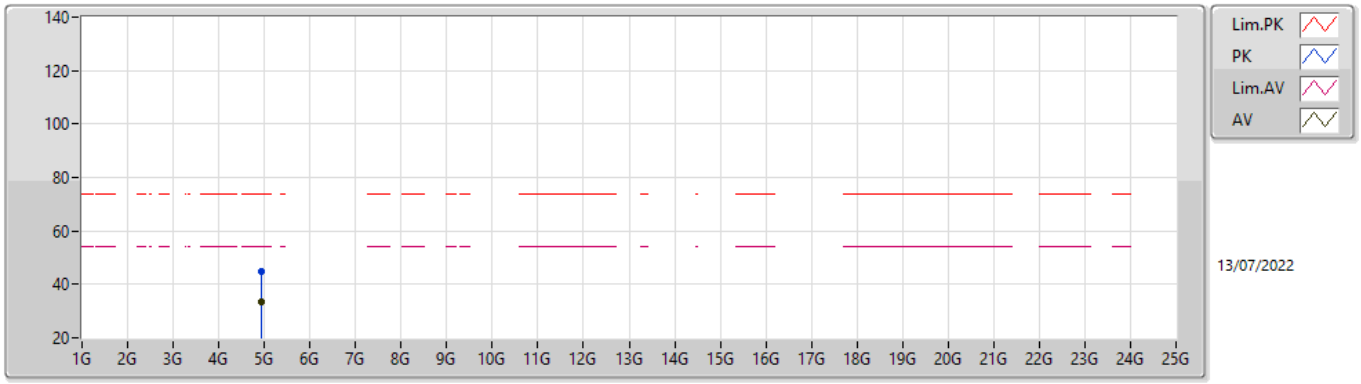
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.9243G	32.82	54.00	-21.18	4.84	3	Vertical	70	1.50	-	27.98	32.95	6.33	34.44
PK	4.9189G	44.57	74.00	-29.43	4.80	3	Vertical	70	1.50	-	39.77	32.91	6.33	34.44

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92418G	33.24	54.00	-20.76	4.84	3	Horizontal	182	2.24	-	28.40	32.95	6.33	34.44
PK	4.92466G	44.67	74.00	-29.33	4.84	3	Horizontal	182	2.24	-	39.83	32.95	6.33	34.44