

NCC Test Report

Equipment : WiFi and Bluetooth Module
Brand Name : tuya
Model Name : TYWE3SE
Applicant : 杭州塗鴉信息技術有限公司
浙江省杭州市西湖區浙商財富中心 3 幢 701 室
Manufacturer : 杭州塗鴉信息技術有限公司
浙江省杭州市西湖區浙商財富中心 3 幢 701 室
Standard : LP0002 Section 4.10 (2020-07-01)

The product was received on Dec. 23, 2020, and testing was started from Dec. 28, 2020 and completed on Dec. 30, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	4.10.1.4	Antenna Requirement	PASS	-
3.1	3.3	AC Power-line Conducted Emissions	PASS	-
3.2	4.10.1.6	DTS Bandwidth	PASS	-
3.3	4.10.1.2	Maximum Conducted Output Power	PASS	-
3.4	4.10.1.6	Power Spectral Density	PASS	-
3.5	4.10.1.5	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	4.10.1.5	Emissions in Restricted Frequency Bands	PASS	-
3.7	3.9	Receiver Radiated Unwanted Emissions	PASS	-
3.8	6.20	Maximum Permissible Exposure	PASS	-

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: Ben Tseng

Report Producer: Jenny Yang

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	Hangzhou TUYA	TYWE3SE	PCB	N/A

Ant.	Port	Gain (dBi)	
		2.4G	BT
1	1	2.5	2.5

Note 1: The EUT has one antenna.

For 2.4GHz function:

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

Ant. 1 (port 1) can be used as transmitting/receiving antenna.

For BT function:

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

Ant. 1 (port 1) can be used as transmitting/receiving antenna.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From Host system		
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) $\geq 1/T$
802.11b_Nss1,(1Mbps)_1TX	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g_Nss1,(6Mbps)_1TX	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11n HT20_Nss1,(MCS0)_1TX	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11n HT40_Nss1,(MCS0)_1TX	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

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

1.2 Testing Applied Standards

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

- ♦ LP0002 (2020-07-01)
- ♦ ANSI C63.10-2013
- ♦ ANSI C63.4-2014

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

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

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
☐	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
		TEL : 886-3-318-0787	FAX : 886-3-318-0287

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward Wang	22.3~23.0°C / 58~ 63%	30/Dec/2020
RF Conducted	TH01-HY	Barry Hsiao	20.6~21.9°C / 57~62%	28/Dec/2020~ 30/Dec/2020
Radiated	03CH03-HY	Edward Wang	20.1~26.9°C / 50~60%	28/Dec/2020~ 30/Dec/2020

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
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 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 Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	110V

2.2 Test Channel Mode

Test Software Version	espRFTTool v1.1.0
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Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	0
2437MHz	0
2462MHz	0
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	0
2437MHz	0
2462MHz	0
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	7
2437MHz	7
2462MHz	7
802.11n HT40_Nss1,(MCS0)_1TX	-
2422MHz	26
2437MHz	8
2447MHz	12
2452MHz	15

2.3 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
Operating Mode	CTX/CRX
1	Fixture mode; CTX
2	Fixture mode; CRX

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

2.4 Support Equipment

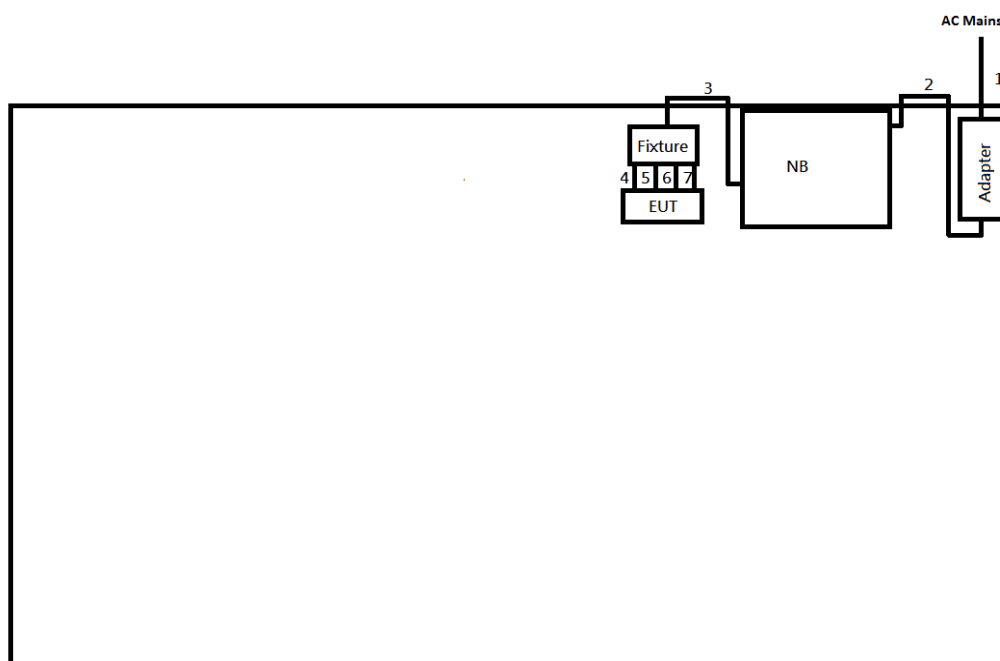
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	HP	5220M	-	-
2	Adapter for NB	HP	PPP012L-E	-	-
3	AC Power Cable for NB	Power sync	PW-GPC180-3	-	-
4	USB cable	cingkang	US-46	-	-
5	Earphone	Apple	MD827FE/A	-	-
6	Apple 30-pin to USB Original Cable	Apple	MA591G/C	-	-
7	iPod	Apple	A1199	-	-
8	Fixture(Sporton)	TAIWANIOT	CP2102 MODULES	-	-
9	Dupont line	TAIWANIOT	40P 1P-1P	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Fixture(Sporton)	TAIWANIOT	CP2102 MODULES	-	-
4	Dupont line	TAIWANIOT	40P 1P-1P	-	-

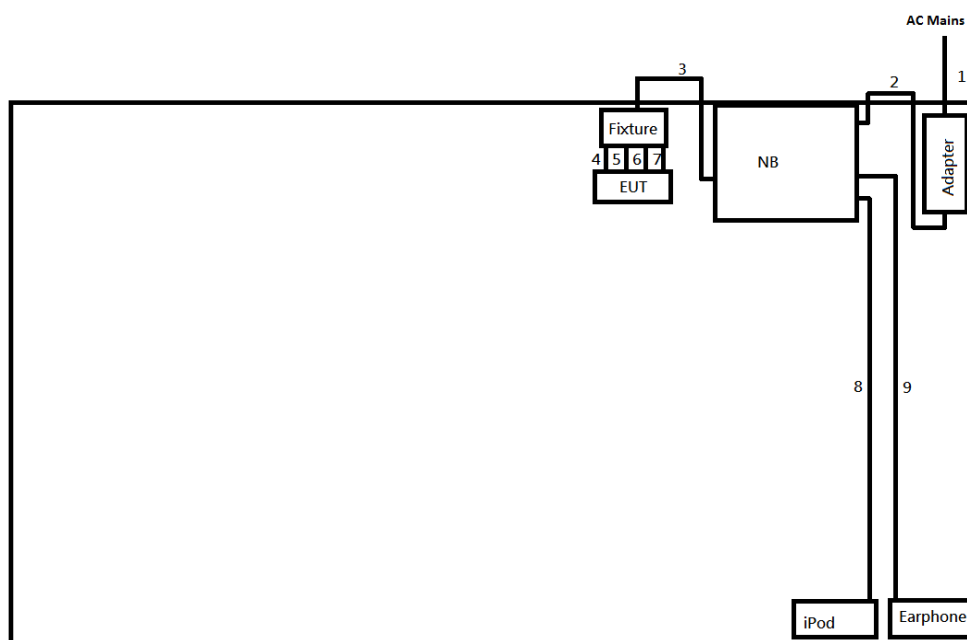
Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	HP	5220M	-	-
2	Adapter for NB	HP	PPP012L-E	-	-
3	AC Power Cable for NB	Power sync	PW-GPC180-3	-	-
4	USB cable	cingkang	US-46	-	-
5	Earphone	Apple	MD827FE/A	-	-
6	Apple 30-pin to USB Original Cable	Apple	MA591G/C	-	-
7	iPod	Apple	A1199	-	-
8	Fixture(Sporton)	TAIWANIOT	CP2102 MODULES	-	-
9	Dupont line	TAIWANIOT	40P 1P-1P	-	-

2.5 Test Setup Diagram

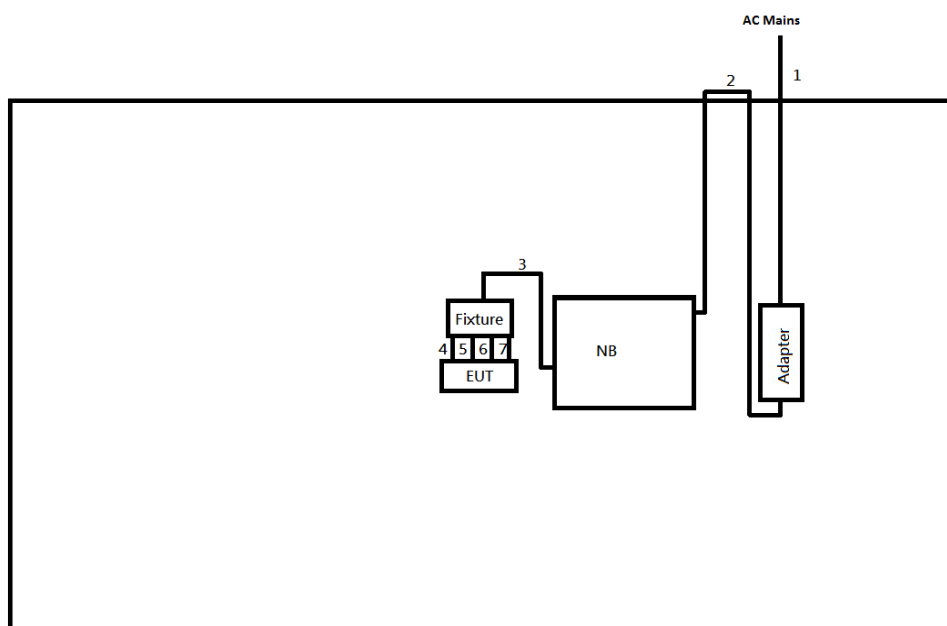
Test Setup Diagram – AC Line Conducted Emission Test -TX



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	2.0	-
3	USB Cable (extension)	No	1.2	-
4	Dupont line	No	0.1	-
5	Dupont line	No	0.1	-
6	Dupont line	No	0.1	-
7	Dupont line	No	0.1	-

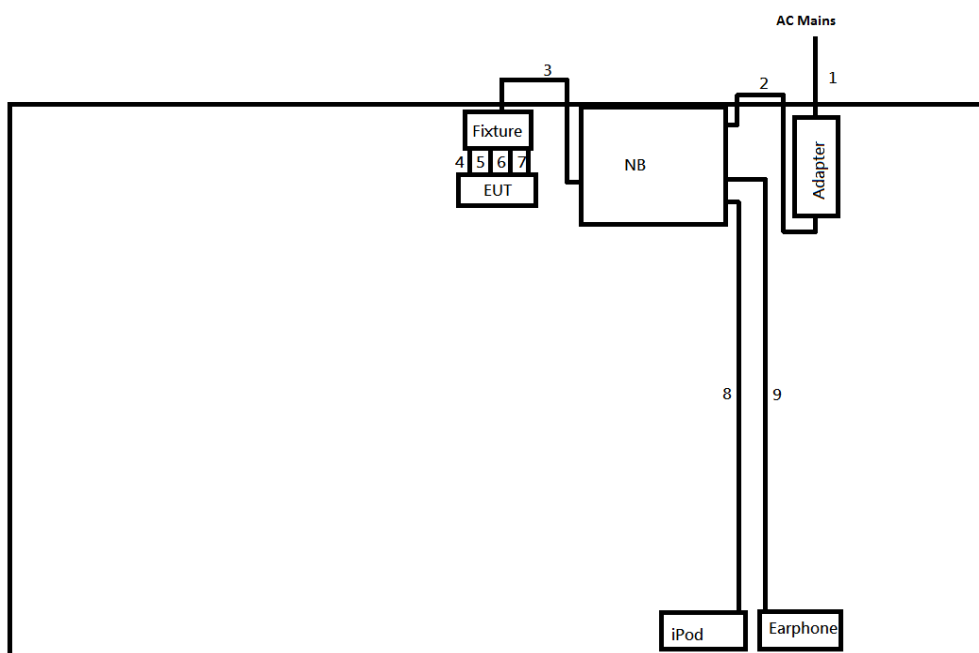
Test Setup Diagram – AC Line Conducted Emission Test -RX


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	2.0	-
3	USB Cable (extension)	No	1.2	-
4	Dupont line	No	0.1	-
5	Dupont line	No	0.1	-
6	Dupont line	No	0.1	-
7	Dupont line	No	0.1	-
8	30-pin to USB Original Cable	No	1.0	-
9	Audio Cable	No	1.25	-

Test Setup Diagram - Radiated Test-TX


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	2.0	-
3	USB Cable (extension)	No	1.2	-
4	Dupont line	No	0.1	-
5	Dupont line	No	0.1	-
6	Dupont line	No	0.1	-
7	Dupont line	No	0.1	-

Test Setup Diagram - Radiated Test-RX



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	2.0	-
3	USB Cable (extension)	No	1.2	-
4	Dupont line	No	0.1	-
5	Dupont line	No	0.1	-
6	Dupont line	No	0.1	-
7	Dupont line	No	0.1	-
8	30-pin to USB Original Cable	No	1.0	-
9	Audio Cable	No	1.25	-

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

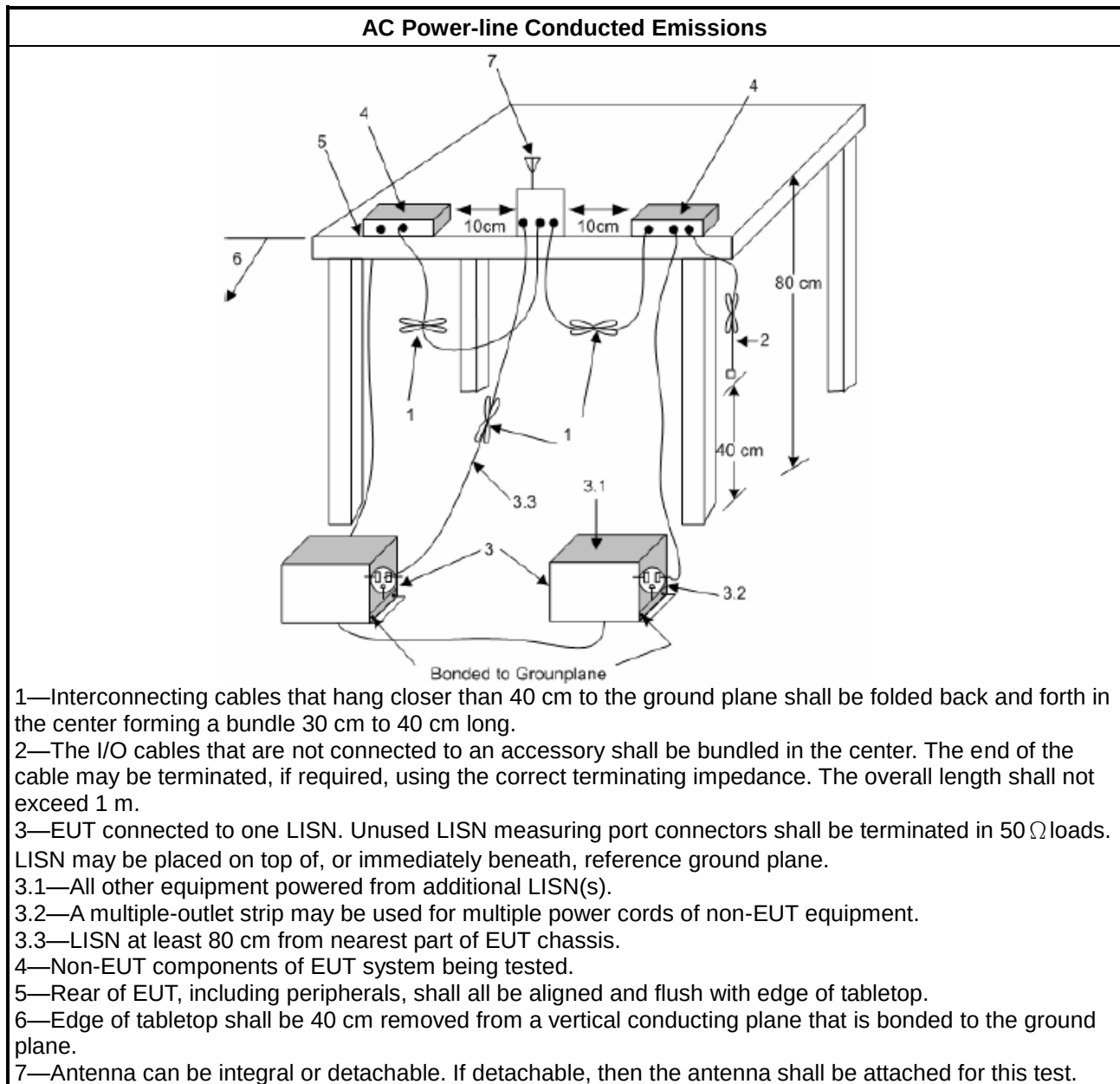
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

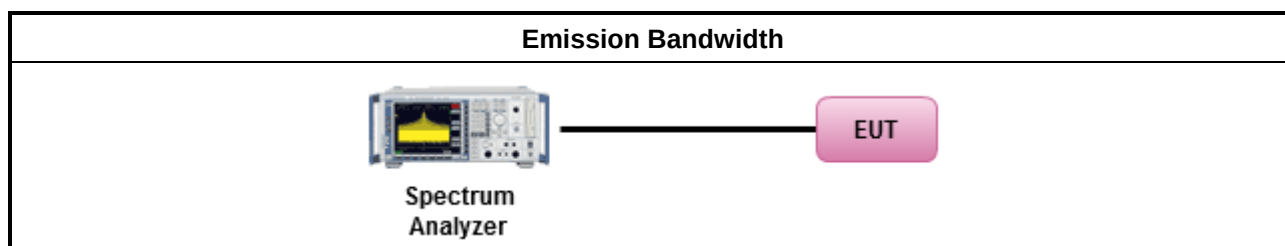
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

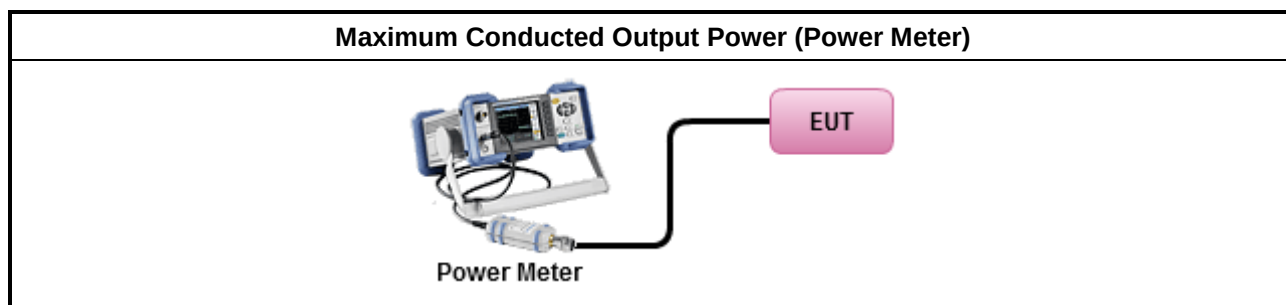
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (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: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

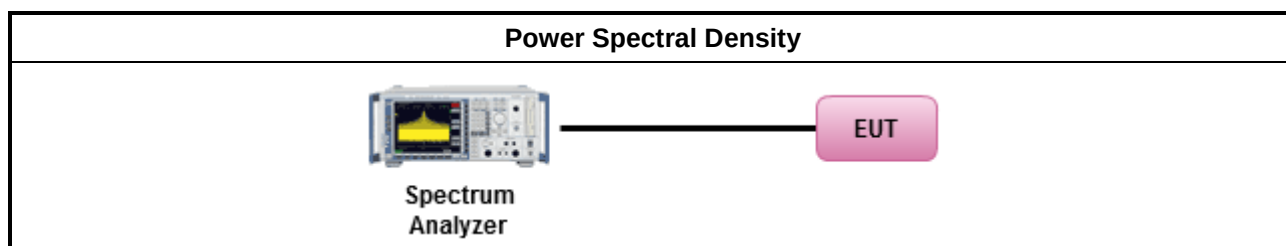
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

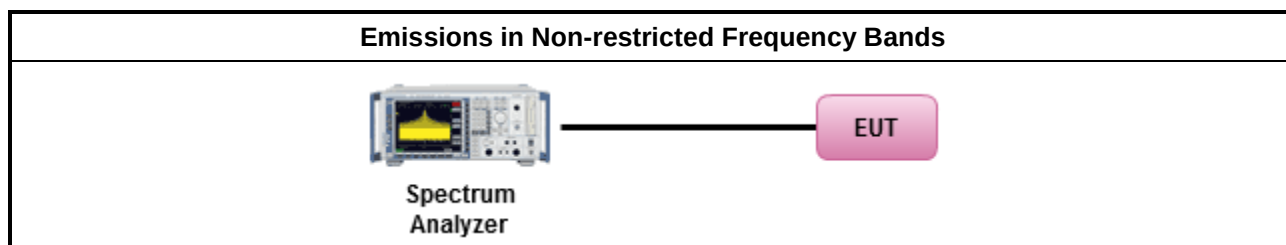
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

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

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

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

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

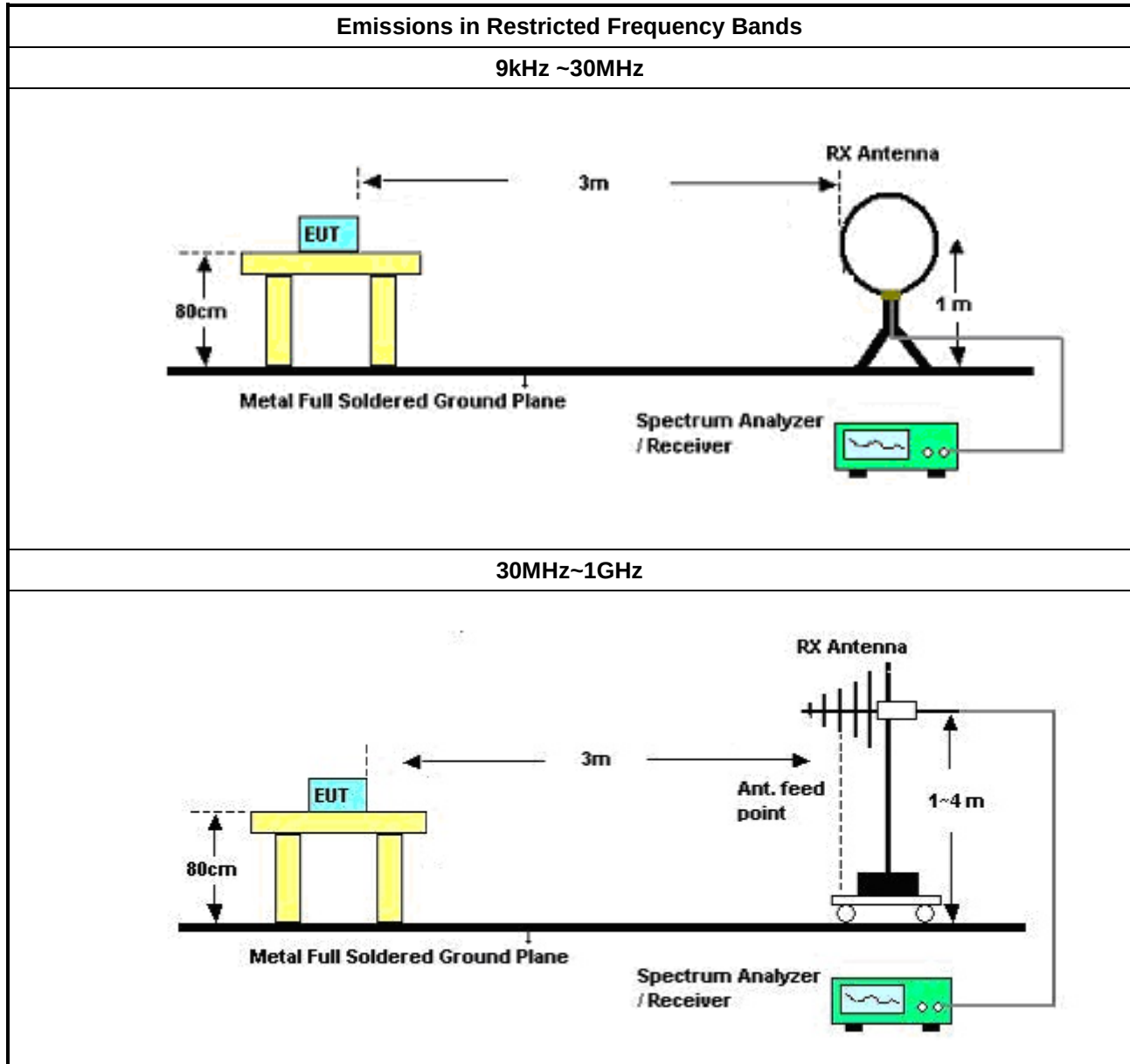
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on LP0002 6.5.2: measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

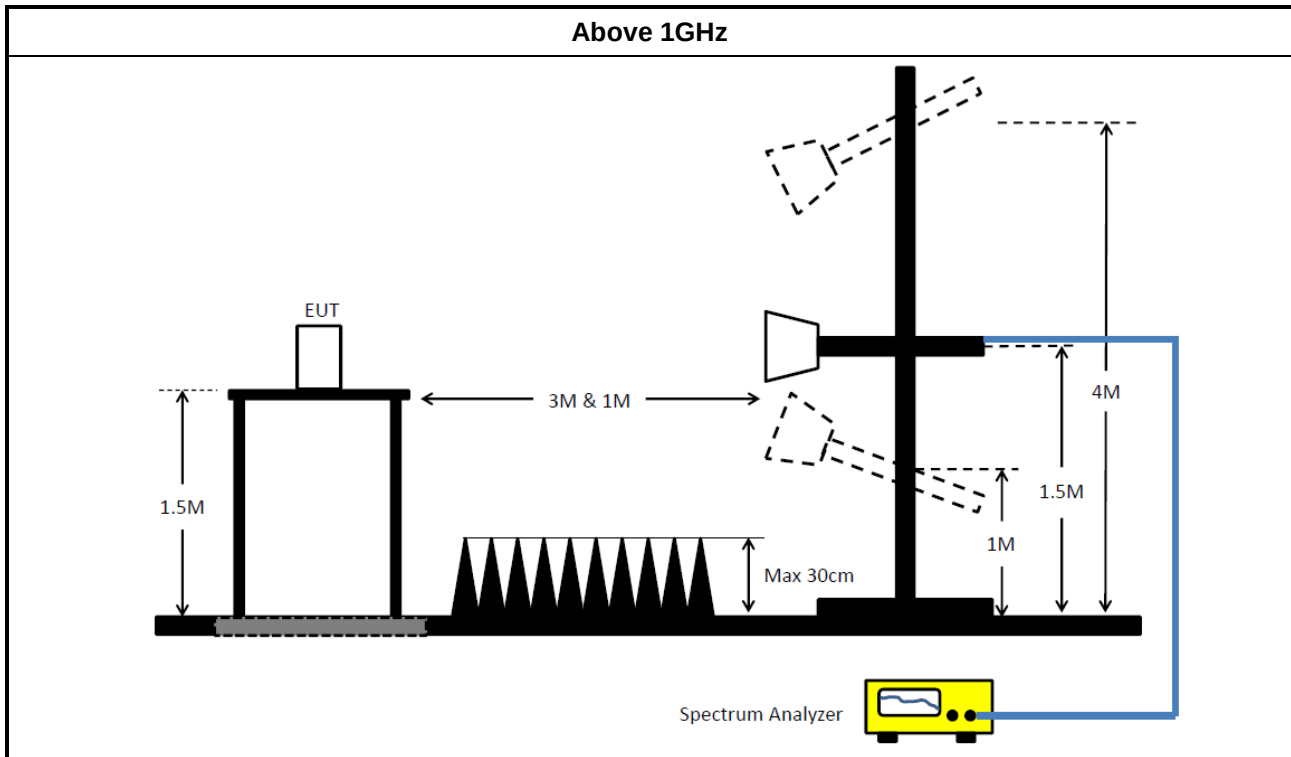
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.5 Test Setup





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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

3.7 Receiver Radiated Spurious Emissions

3.7.1 Receiver in Radiated Spurious Emissions Limit

Restricted Spurious 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.

3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

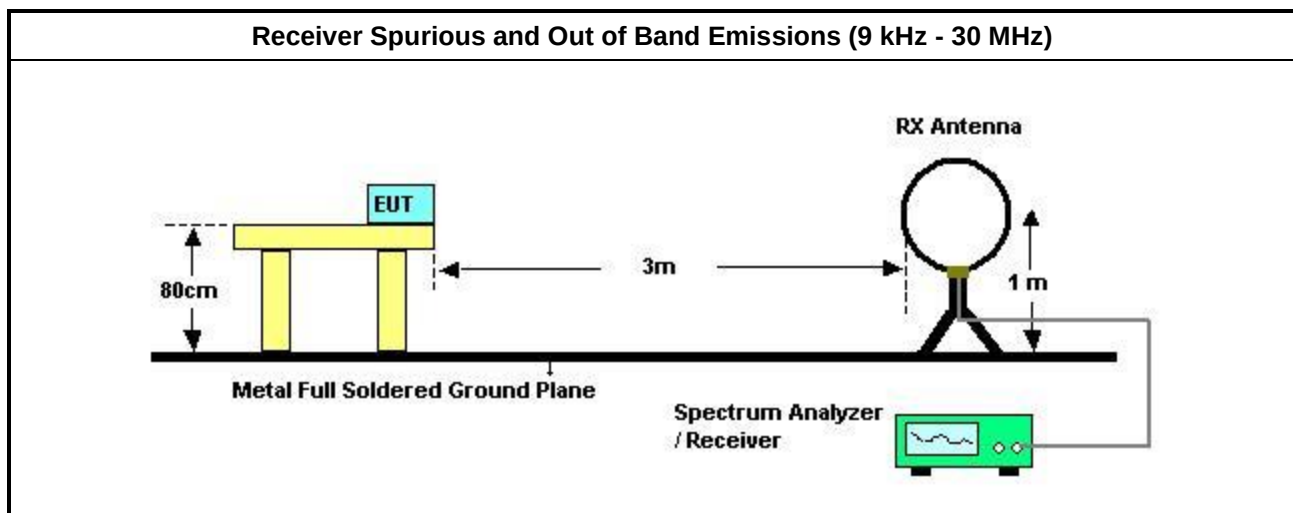
Test Method	
☒	The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least 3 times the highest tuneable or local oscillator frequency, whichever is higher, without exceeding 40 GHz.
☒	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).
☒	For radiated measurement, refer as ANSI C63.4, clause 8.3.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from below 30 MHz.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from 30 MHz-1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the QP-Limit so that the QP level does not need to be reported in addition.
☒	Refer as ANSI C63.4, clause 8.3.1.2 and 8.3.2.2 for radiated emissions from above 1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
☒	All amplitude of spurious emissions that are attenuated by more than 30 dB below the permissible value has no need to be reported.

3.7.4 Measurement Results Calculation

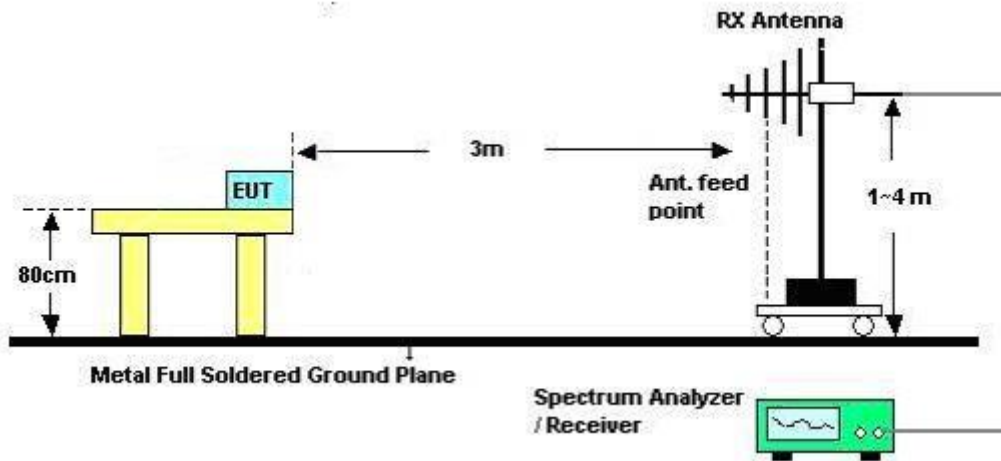
The measured Level is calculated using:

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

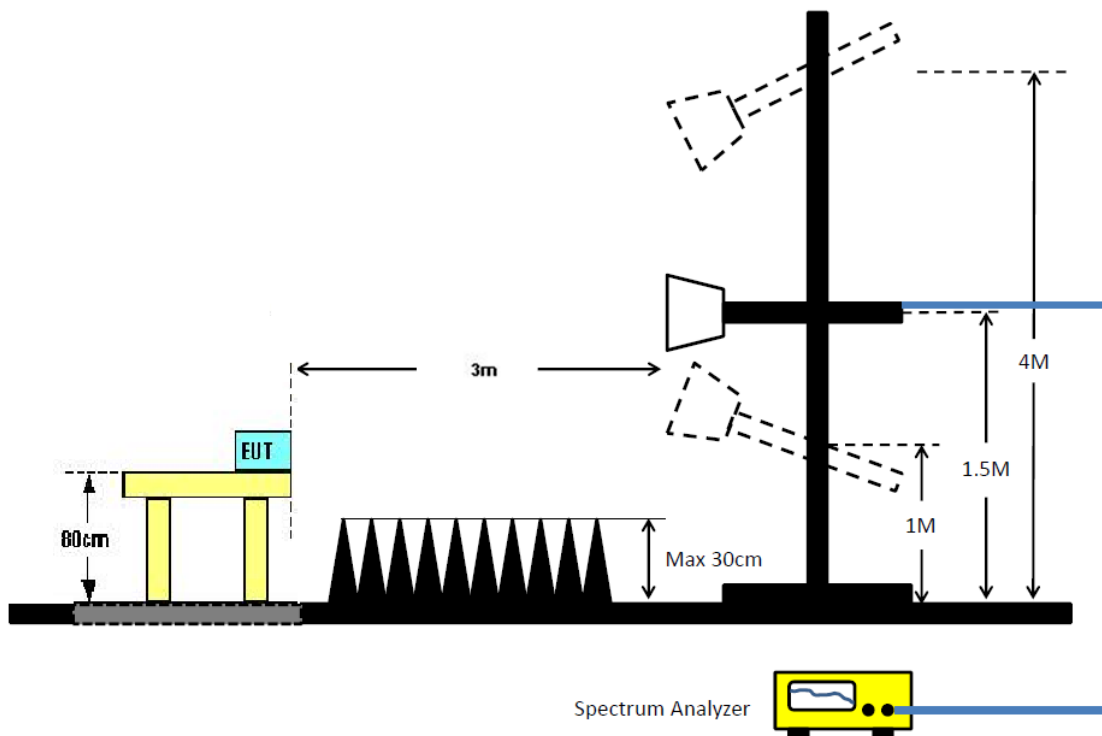
3.7.5 Test Setup



Receiver Radiated Unwanted Emissions (below 1GHz)



Receiver Radiated Unwanted Emissions (above 1GHz)



3.7.6 Receiver Radiated Unwanted Emissions (Below 30MHz)

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

3.7.7 Test Result of Receiver Radiated Unwanted Emissions

Refer as Appendix G

3.8 Maximum Permissible Exposure

3.8.1 Maximum Permissible Exposure Limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	*100	6
3-30	1842 / f	4.89 / f	*900 / f ²	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5.0	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	*100	30
3-30	1842/f	4.89/f	*180/f ²	30
30-300	27.5	0.073	1.0	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

3.8.2 Measuring Instruments

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

3.8.3 MPE Calculation Method

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

3.8.4 Test Result of Calculated Result and Limit

Refer as Appendix H

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	29/May/2020	28/May/2021
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	11/Nov/2020	10/Nov/2021
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	31/Aug/2020	30/Aug/2021
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	21/Sep/2020	20/Sep/2021

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	19/Mar/2020	18/Mar/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	917017	300MHz~40GHz	17/Feb/2020	16/Feb/2021
Power Meter	Anritsu	ML2495A	949003	300MHz~40GHz	17/Feb/2020	16/Feb/2021

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	06/Aug/2020	05/Aug/2021
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	04/Aug/2020	03/Aug/2021
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	19/Aug/2020	18/Aug/2021
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	14/Apr/2020	13/Apr/2021
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz~26.5GHz	06/Oct/2020	05/Oct/2021
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	25/Oct/2020	24/Oct/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	26/Mar/2020	25/Mar/2021
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz~30MHz	20/Jun/2020	19/Jun/2021
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz~1GHz	18/Mar/2020	17/Mar/2021
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	SN MY38596/4+SN 804300/4	1GHz~40GHz	04/Aug/2020	03/Aug/2021
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2020	15/Mar/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	29/May/2020	28/May/2021
Preamplifier	MITEQ	TTA1840-35- HG	1864481	18GHz~40GHz	10/Mar/2020	09/Mar/2021



Conducted Emissions at Powerline

Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	213.137k	48.43	63.07	-14.64	Line
Mode 2	Pass	QP	213.137k	48.65	63.07	-14.42	Neutral

Mode Configure

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	213.137k	48.43	63.07	-14.64	Line	"Worst"
Mode 1	Pass	AV	213.137k	35.74	53.07	-17.33	Line	-
Mode 1	Pass	QP	284.109k	39.53	60.70	-21.17	Line	-
Mode 1	Pass	AV	284.109k	27.87	50.70	-22.83	Line	-
Mode 1	Pass	QP	566.784k	33.09	56.00	-22.91	Line	-
Mode 1	Pass	AV	566.784k	29.63	46.00	-16.37	Line	-
Mode 1	Pass	QP	1.489M	31.16	56.00	-24.84	Line	-
Mode 1	Pass	AV	1.489M	29.70	46.00	-16.30	Line	-
Mode 1	Pass	QP	2.125M	31.19	56.00	-24.81	Line	-
Mode 1	Pass	AV	2.125M	29.39	46.00	-16.61	Line	-
Mode 1	Pass	QP	9.919M	29.24	60.00	-30.76	Line	-
Mode 1	Pass	AV	9.919M	25.41	50.00	-24.59	Line	-
Mode 1	Pass	QP	211.442k	48.36	63.15	-14.79	Neutral	"Worst"
Mode 1	Pass	AV	211.442k	35.46	53.15	-17.69	Neutral	-
Mode 1	Pass	QP	280.727k	38.32	60.80	-22.48	Neutral	-
Mode 1	Pass	AV	280.727k	26.54	50.80	-24.26	Neutral	-
Mode 1	Pass	QP	564.526k	30.62	56.00	-25.38	Neutral	-
Mode 1	Pass	AV	564.526k	27.63	46.00	-18.37	Neutral	-
Mode 1	Pass	QP	2.125M	31.48	56.00	-24.52	Neutral	-
Mode 1	Pass	AV	2.125M	29.77	46.00	-16.23	Neutral	-
Mode 1	Pass	QP	9.919M	29.96	60.00	-30.04	Neutral	-
Mode 1	Pass	AV	9.919M	26.21	50.00	-23.79	Neutral	-
Mode 1	Pass	QP	12.111M	29.94	60.00	-30.06	Neutral	-
Mode 1	Pass	AV	12.111M	25.27	50.00	-24.73	Neutral	-
Mode 2	Pass	QP	213.137k	48.49	63.07	-14.58	Line	"Worst"
Mode 2	Pass	AV	213.137k	35.89	53.07	-17.18	Line	-
Mode 2	Pass	QP	284.109k	39.67	60.70	-21.03	Line	-
Mode 2	Pass	AV	284.109k	27.98	50.70	-22.72	Line	-
Mode 2	Pass	QP	566.784k	33.29	56.00	-22.71	Line	-
Mode 2	Pass	AV	566.784k	29.83	46.00	-16.17	Line	-
Mode 2	Pass	QP	2.125M	31.20	56.00	-24.80	Line	-
Mode 2	Pass	AV	2.125M	29.54	46.00	-16.46	Line	-
Mode 2	Pass	QP	9.418M	29.52	60.00	-30.48	Line	-
Mode 2	Pass	AV	9.418M	25.26	50.00	-24.74	Line	-
Mode 2	Pass	QP	12.961M	30.04	60.00	-29.96	Line	-
Mode 2	Pass	AV	12.961M	25.87	50.00	-24.13	Line	-
Mode 2	Pass	QP	213.137k	48.65	63.07	-14.42	Neutral	"Worst"
Mode 2	Pass	AV	213.137k	35.85	53.07	-17.22	Neutral	-
Mode 2	Pass	QP	284.109k	39.81	60.70	-20.89	Neutral	-
Mode 2	Pass	AV	284.109k	28.08	50.70	-22.62	Neutral	-
Mode 2	Pass	QP	569.051k	30.23	56.00	-25.77	Neutral	-
Mode 2	Pass	AV	569.051k	27.21	46.00	-18.79	Neutral	-
Mode 2	Pass	QP	2.194M	29.63	56.00	-26.37	Neutral	-

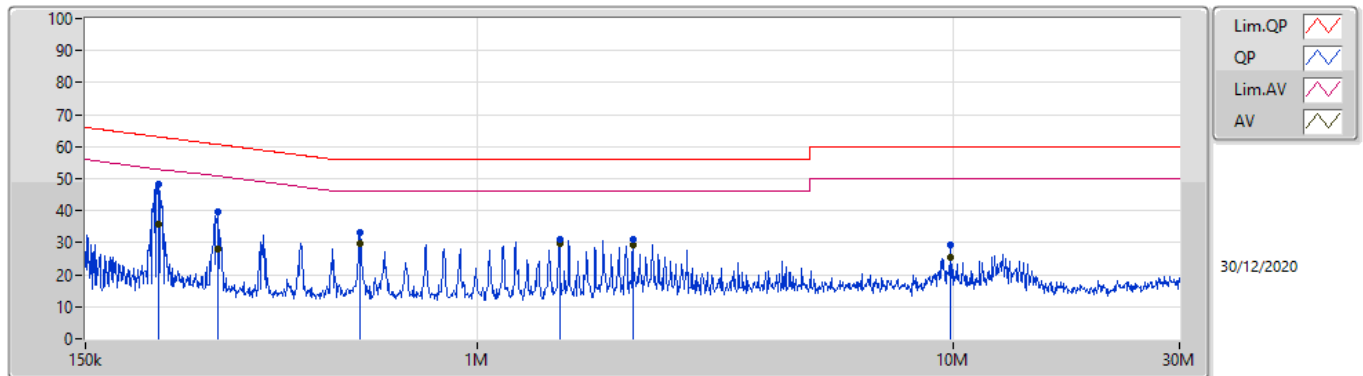


Conducted Emissions at Powerline

Appendix A

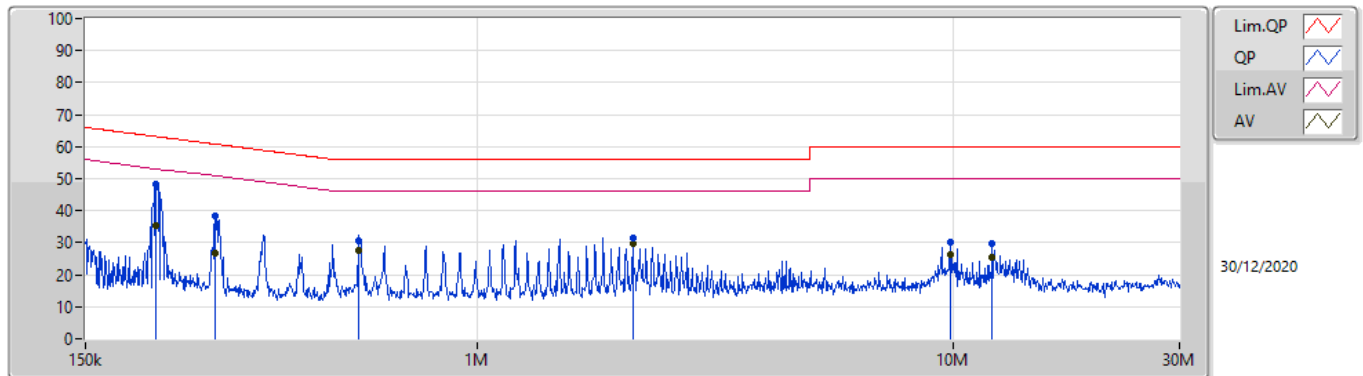
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 2	Pass	AV	2.194M	27.30	46.00	-18.70	Neutral	-
Mode 2	Pass	QP	9.418M	30.60	60.00	-29.40	Neutral	-
Mode 2	Pass	AV	9.418M	26.28	50.00	-23.72	Neutral	-
Mode 2	Pass	QP	12.111M	30.05	60.00	-29.95	Neutral	-
Mode 2	Pass	AV	12.111M	25.39	50.00	-24.61	Neutral	-

Conducted Emissions at Powerline_Mode 1



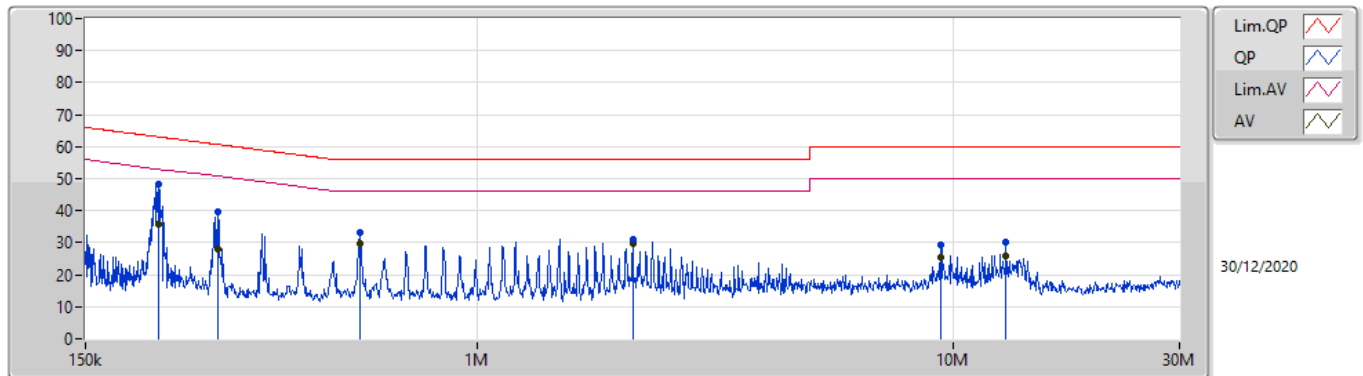
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	213.137k	48.43	63.07	-14.64	19.59	Line	"Worst"	28.84	9.68	0.01	9.90			
AV	213.137k	35.74	53.07	-17.33	19.59	Line	-	16.15	9.68	0.01	9.90			
QP	284.109k	39.53	60.70	-21.17	19.59	Line	-	19.94	9.67	0.02	9.90			
AV	284.109k	27.87	50.70	-22.83	19.59	Line	-	8.28	9.67	0.02	9.90			
QP	566.784k	33.09	56.00	-22.91	19.56	Line	-	13.53	9.67	0.03	9.86			
AV	566.784k	29.63	46.00	-16.37	19.56	Line	-	10.07	9.67	0.03	9.86			
QP	1.489M	31.16	56.00	-24.84	19.55	Line	-	11.61	9.68	0.07	9.80			
AV	1.489M	29.70	46.00	-16.30	19.55	Line	-	10.15	9.68	0.07	9.80			
QP	2.125M	31.19	56.00	-24.81	19.57	Line	-	11.62	9.68	0.08	9.81			
AV	2.125M	29.39	46.00	-16.61	19.57	Line	-	9.82	9.68	0.08	9.81			
QP	9.919M	29.24	60.00	-30.76	19.83	Line	-	9.41	9.72	0.21	9.90			
AV	9.919M	25.41	50.00	-24.59	19.83	Line	-	5.58	9.72	0.21	9.90			

Conducted Emissions at Powerline_Mode 1



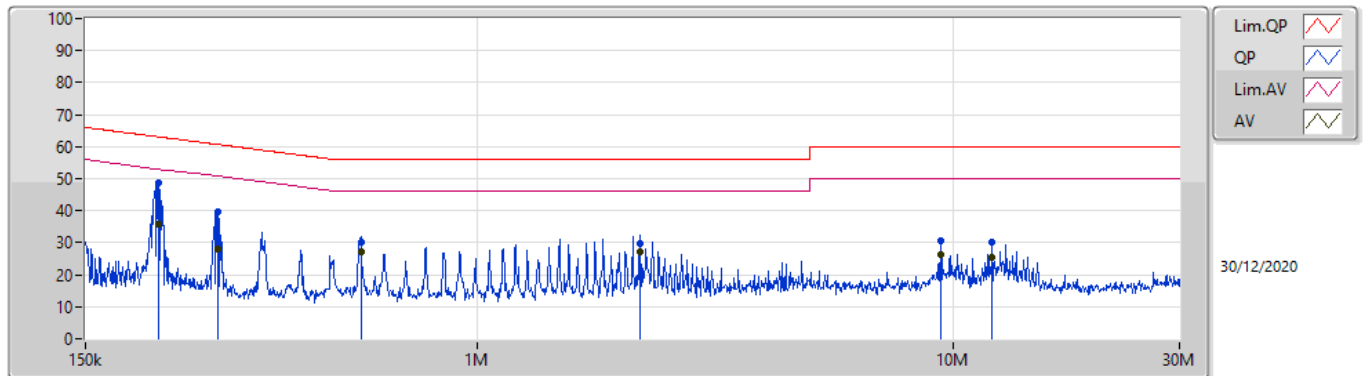
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	211.442k	48.36	63.15	-14.79	19.59	Neutral	"Worst"	28.77	9.68	0.01	9.90			
AV	211.442k	35.46	53.15	-17.69	19.59	Neutral	-	15.87	9.68	0.01	9.90			
QP	280.727k	38.32	60.80	-22.48	19.59	Neutral	-	18.73	9.68	0.01	9.90			
AV	280.727k	26.54	50.80	-24.26	19.59	Neutral	-	6.95	9.68	0.01	9.90			
QP	564.526k	30.62	56.00	-25.38	19.56	Neutral	-	11.06	9.67	0.03	9.86			
AV	564.526k	27.63	46.00	-18.37	19.56	Neutral	-	8.07	9.67	0.03	9.86			
QP	2.125M	31.48	56.00	-24.52	19.57	Neutral	-	11.91	9.68	0.08	9.81			
AV	2.125M	29.77	46.00	-16.23	19.57	Neutral	-	10.20	9.68	0.08	9.81			
QP	9.919M	29.96	60.00	-30.04	19.84	Neutral	-	10.12	9.73	0.21	9.90			
AV	9.919M	26.21	50.00	-23.79	19.84	Neutral	-	6.37	9.73	0.21	9.90			
QP	12.111M	29.94	60.00	-30.06	19.87	Neutral	-	10.07	9.74	0.23	9.90			
AV	12.111M	25.27	50.00	-24.73	19.87	Neutral	-	5.40	9.74	0.23	9.90			

Conducted Emissions at Powerline_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	213.137k	48.49	63.07	-14.58	19.59	Line	"Worst"	28.90	9.68	0.01	9.90			
AV	213.137k	35.89	53.07	-17.18	19.59	Line	-	16.30	9.68	0.01	9.90			
QP	284.109k	39.67	60.70	-21.03	19.59	Line	-	20.08	9.67	0.02	9.90			
AV	284.109k	27.98	50.70	-22.72	19.59	Line	-	8.39	9.67	0.02	9.90			
QP	566.784k	33.29	56.00	-22.71	19.56	Line	-	13.73	9.67	0.03	9.86			
AV	566.784k	29.83	46.00	-16.17	19.56	Line	-	10.27	9.67	0.03	9.86			
QP	2.125M	31.20	56.00	-24.80	19.57	Line	-	11.63	9.68	0.08	9.81			
AV	2.125M	29.54	46.00	-16.46	19.57	Line	-	9.97	9.68	0.08	9.81			
QP	9.418M	29.52	60.00	-30.48	19.82	Line	-	9.70	9.72	0.20	9.90			
AV	9.418M	25.26	50.00	-24.74	19.82	Line	-	5.44	9.72	0.20	9.90			
QP	12.961M	30.04	60.00	-29.96	19.84	Line	-	10.20	9.70	0.24	9.90			
AV	12.961M	25.87	50.00	-24.13	19.84	Line	-	6.03	9.70	0.24	9.90			

Conducted Emissions at Powerline_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	213.137k	48.65	63.07	-14.42	19.59	Neutral	"Worst"	29.06	9.68	0.01	9.90			
AV	213.137k	35.85	53.07	-17.22	19.59	Neutral	-	16.26	9.68	0.01	9.90			
QP	284.109k	39.81	60.70	-20.89	19.59	Neutral	-	20.22	9.67	0.02	9.90			
AV	284.109k	28.08	50.70	-22.62	19.59	Neutral	-	8.49	9.67	0.02	9.90			
QP	569.051k	30.23	56.00	-25.77	19.56	Neutral	-	10.67	9.67	0.03	9.86			
AV	569.051k	27.21	46.00	-18.79	19.56	Neutral	-	7.65	9.67	0.03	9.86			
QP	2.194M	29.63	56.00	-26.37	19.58	Neutral	-	10.05	9.68	0.09	9.81			
AV	2.194M	27.30	46.00	-18.70	19.58	Neutral	-	7.72	9.68	0.09	9.81			
QP	9.418M	30.60	60.00	-29.40	19.83	Neutral	-	10.77	9.73	0.20	9.90			
AV	9.418M	26.28	50.00	-23.72	19.83	Neutral	-	6.45	9.73	0.20	9.90			
QP	12.111M	30.05	60.00	-29.95	19.87	Neutral	-	10.18	9.74	0.23	9.90			
AV	12.111M	25.39	50.00	-24.61	19.87	Neutral	-	5.52	9.74	0.23	9.90			

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	9.075M	13.293M	13M3G1D	8.6M	13.093M
802.11g_Nss1,(6Mbps)_1TX	16.4M	16.617M	16M6D1D	16.4M	16.492M
802.11n HT20_Nss1,(MCS0)_1TX	17.55M	17.466M	17M5D1D	17.55M	17.416M
802.11n HT40_Nss1,(MCS0)_1TX	36.4M	36.532M	36M5D1D	36.35M	36.382M

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

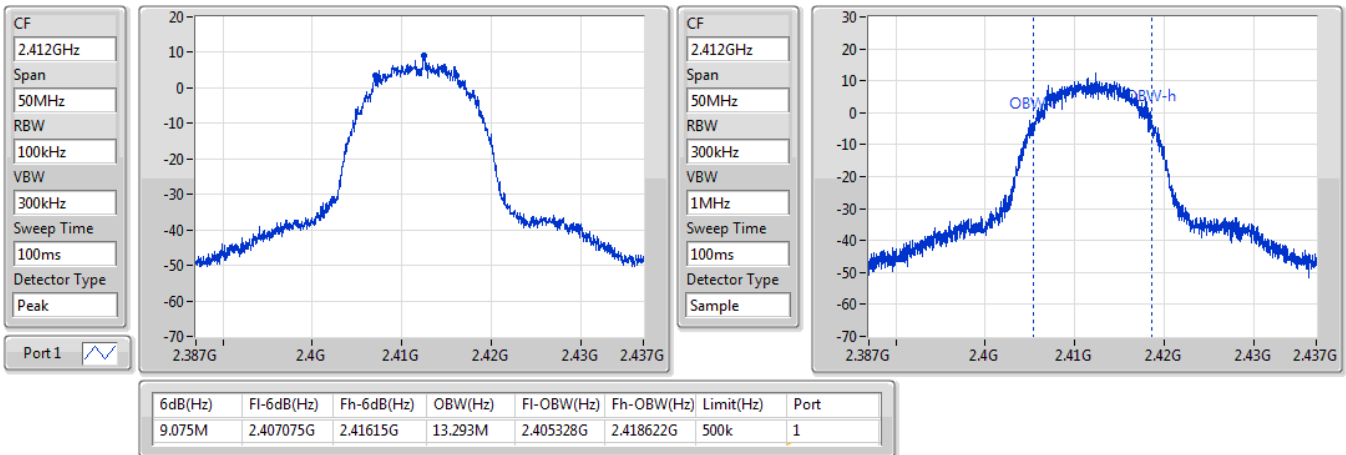
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	9.075M	13.293M
2437MHz	Pass	500k	8.6M	13.168M
2462MHz	Pass	500k	8.625M	13.093M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.4M	16.617M
2437MHz	Pass	500k	16.4M	16.567M
2462MHz	Pass	500k	16.4M	16.492M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.55M	17.441M
2437MHz	Pass	500k	17.55M	17.466M
2462MHz	Pass	500k	17.55M	17.416M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	36.4M	36.482M
2437MHz	Pass	500k	36.35M	36.532M
2452MHz	Pass	500k	36.35M	36.382M

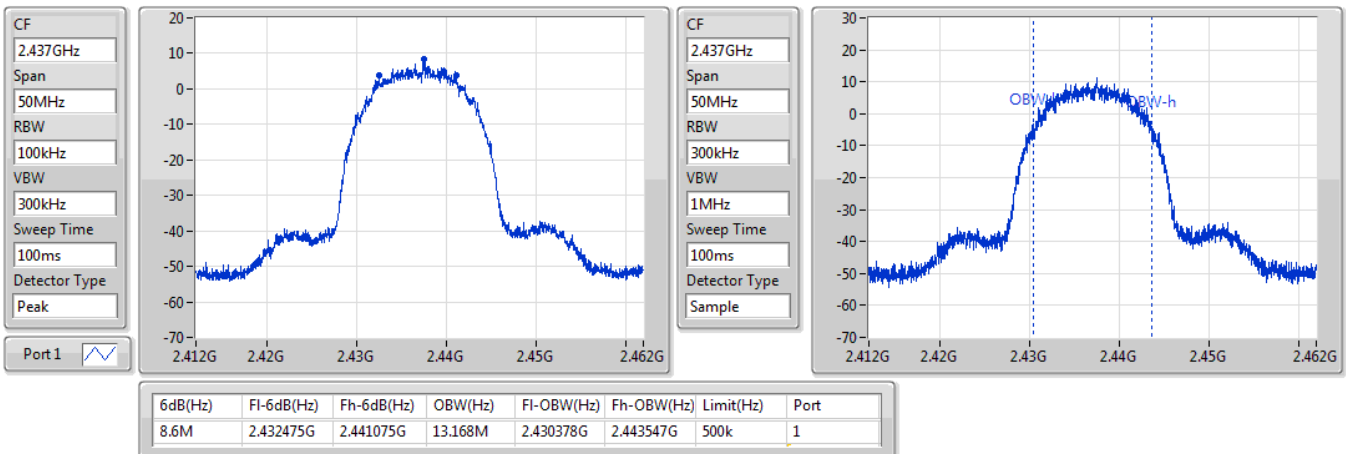
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_1TX
EBW
2412MHz

30/12/2020


802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

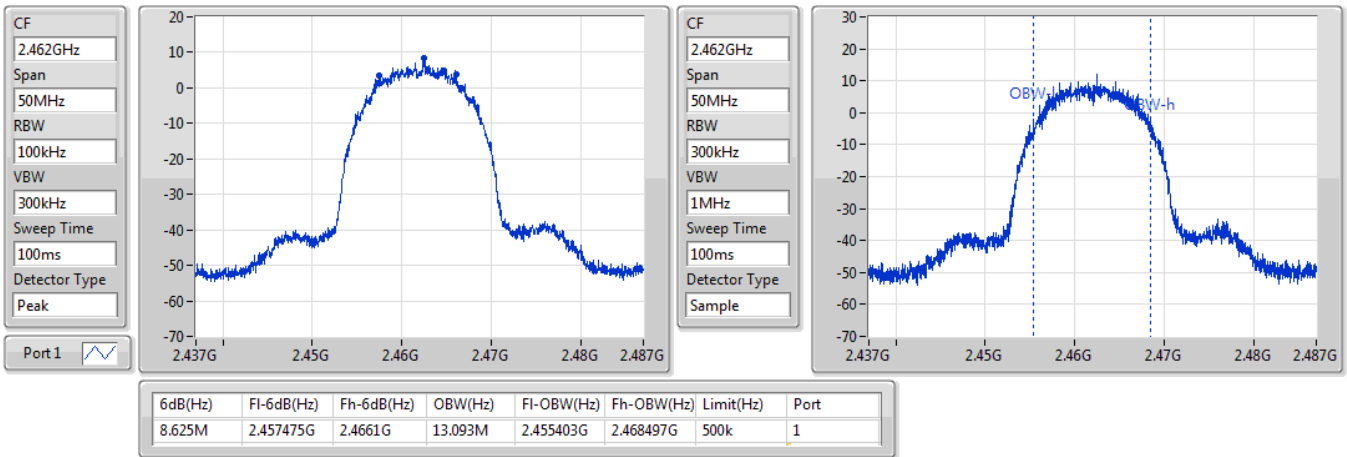
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802.11b_Nss1,(1Mbps)_1TX

EBW
2462MHz

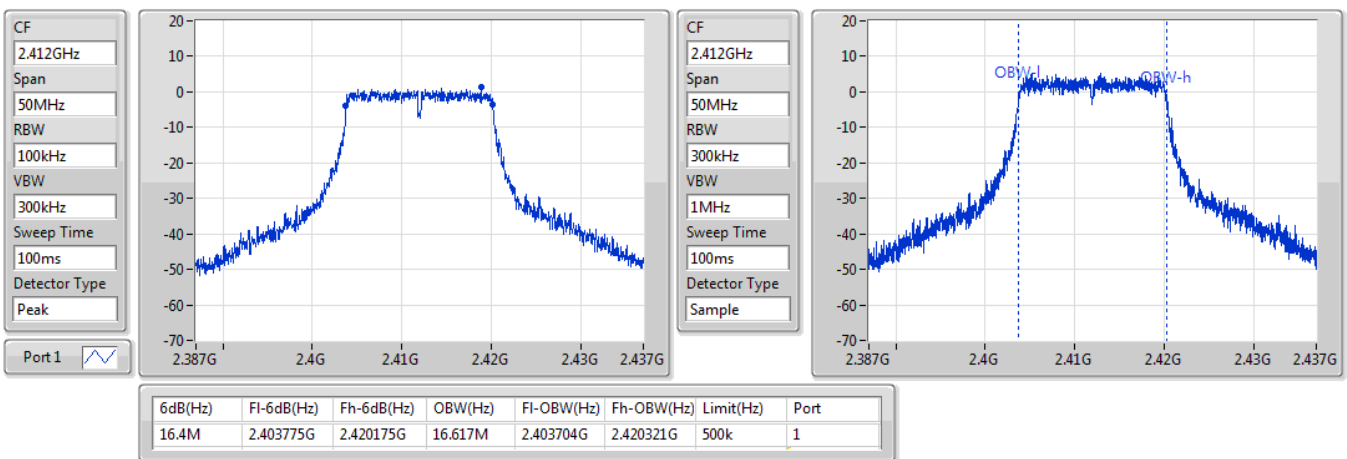
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802.11g_Nss1,(6Mbps)_1TX

EBW
2412MHz

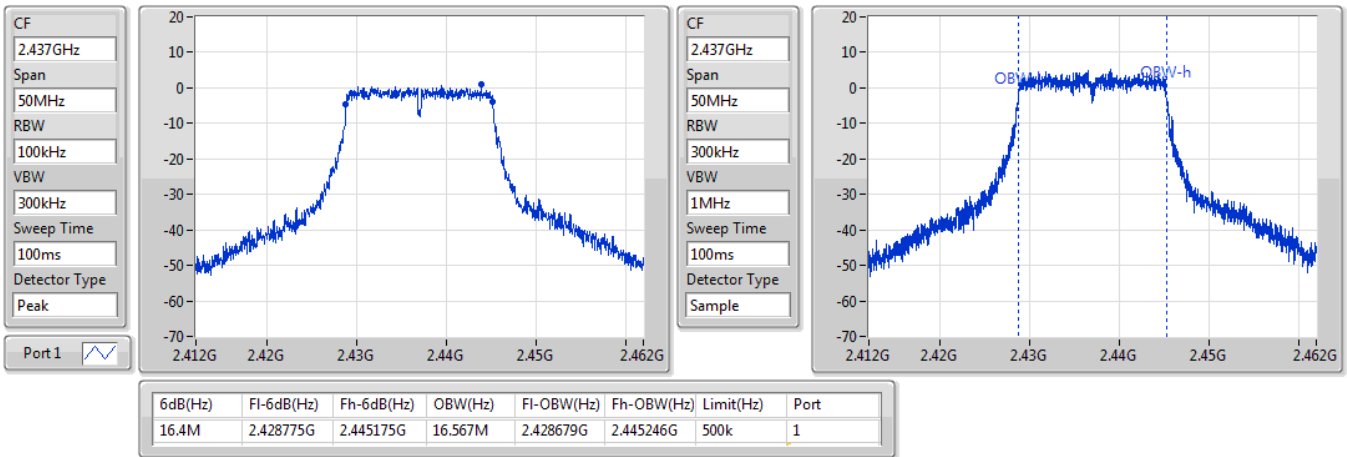
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802.11g_Nss1,(6Mbps)_1TX

EBW
2437MHz

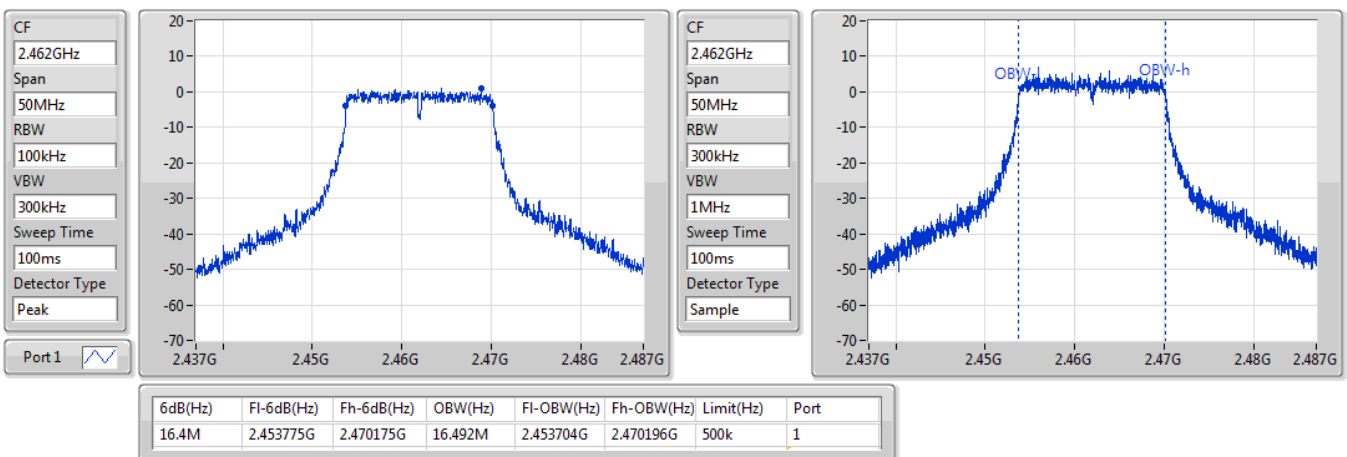
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802.11g_Nss1,(6Mbps)_1TX

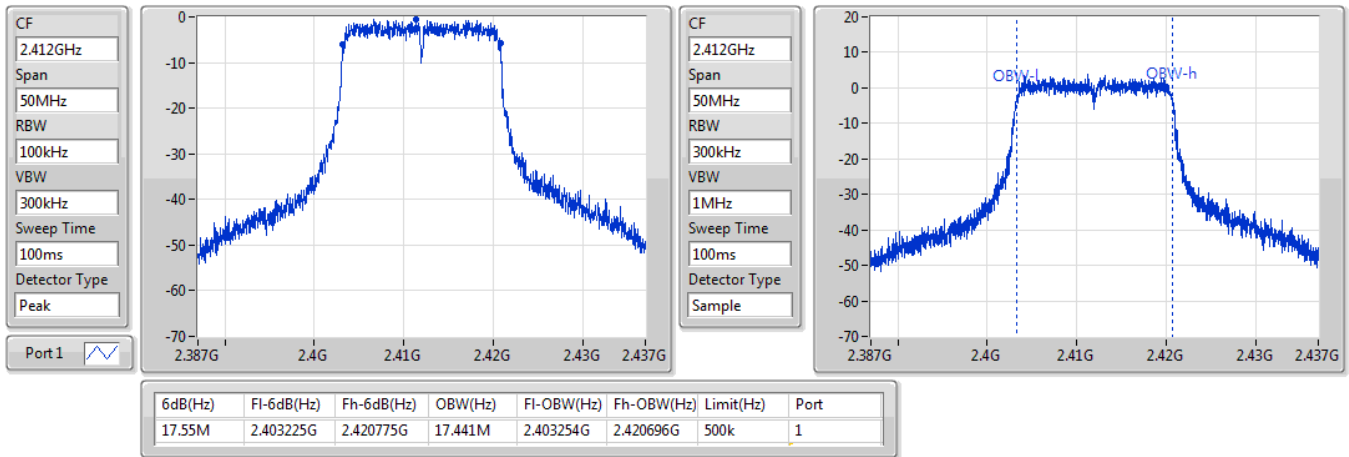
EBW
2462MHz

29/12/2020

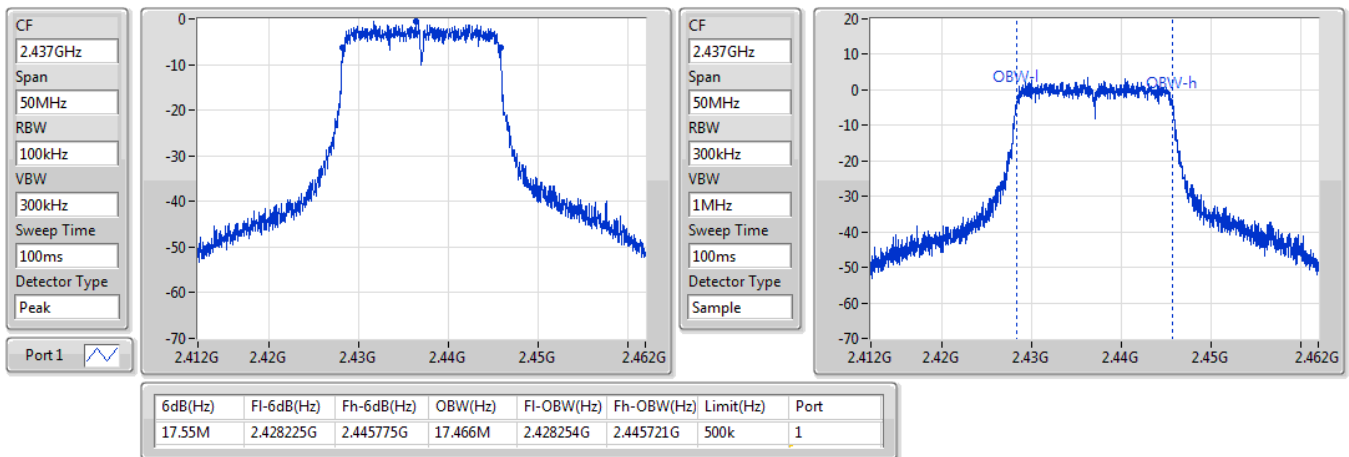


802.11n HT20_Nss1,(MCS0)_1TX
EBW
2412MHz

29/12/2020

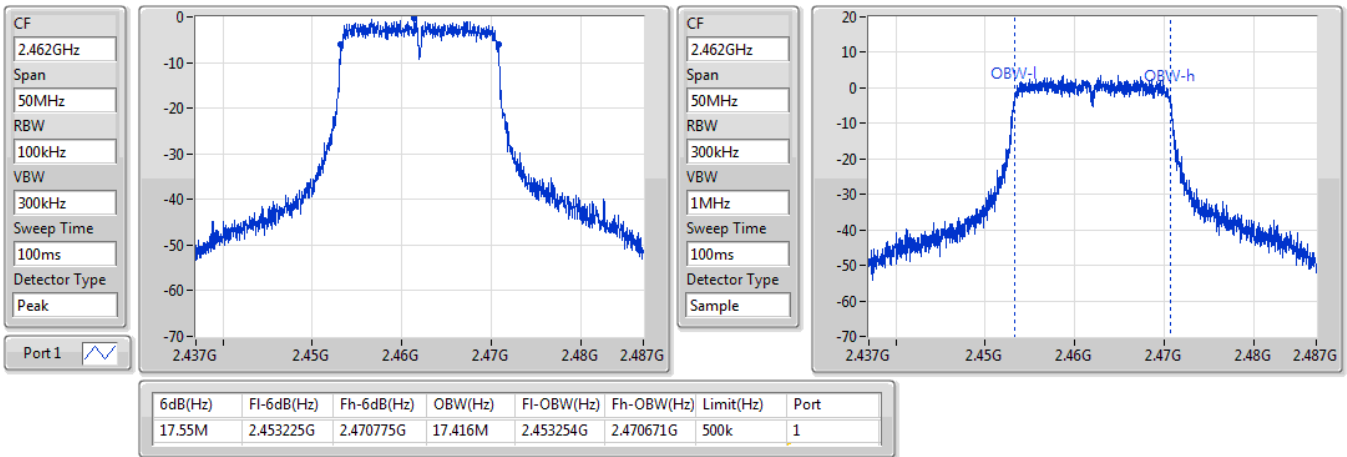

802.11n HT20_Nss1,(MCS0)_1TX
EBW
2437MHz

29/12/2020

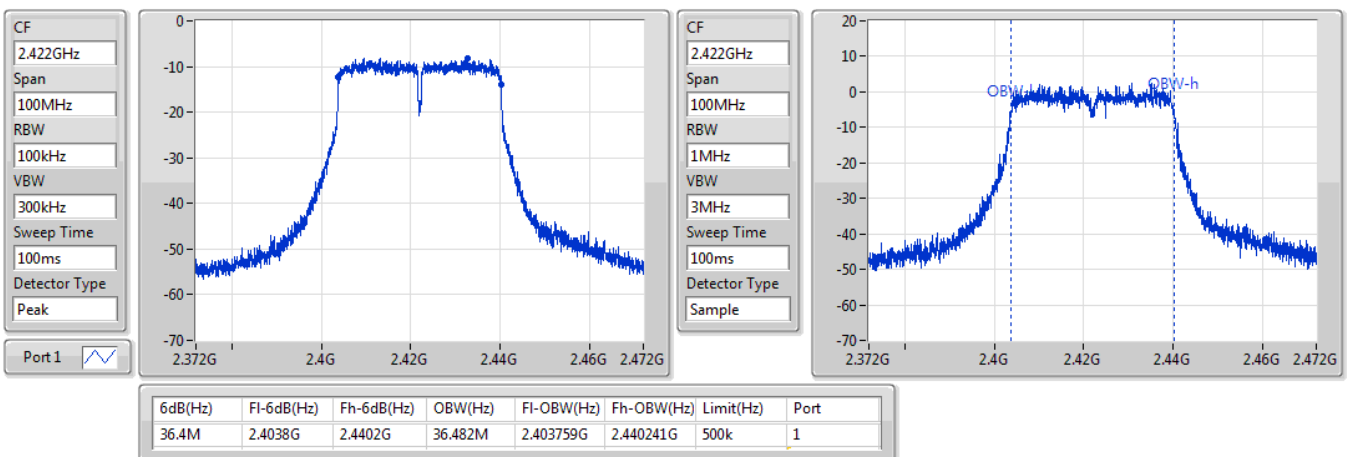


802.11n HT20_Nss1,(MCS0)_1TX
EBW
2462MHz

29/12/2020

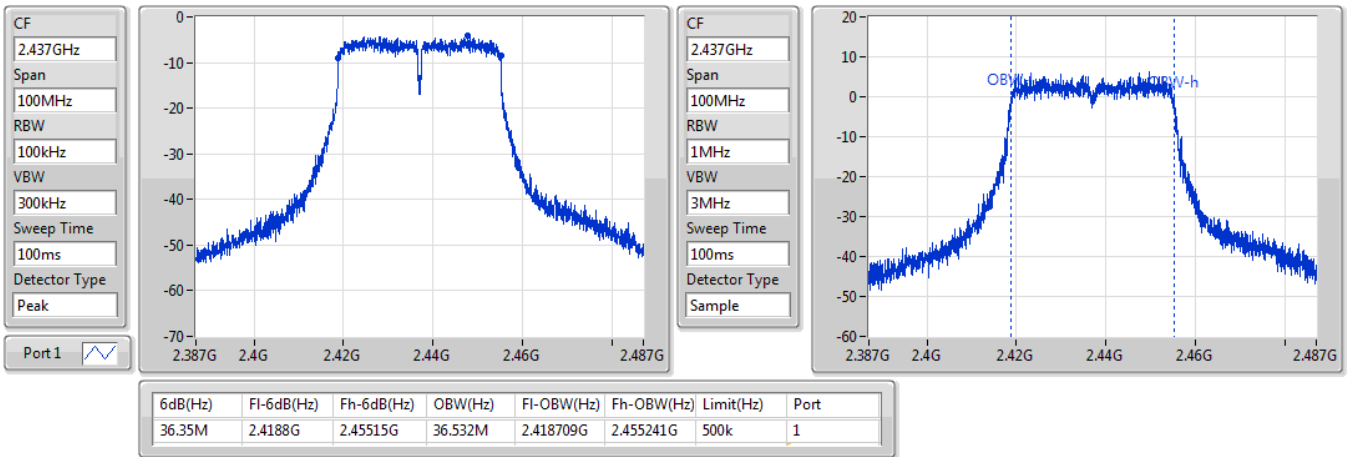

802.11n HT40_Nss1,(MCS0)_1TX
EBW
2422MHz

30/12/2020

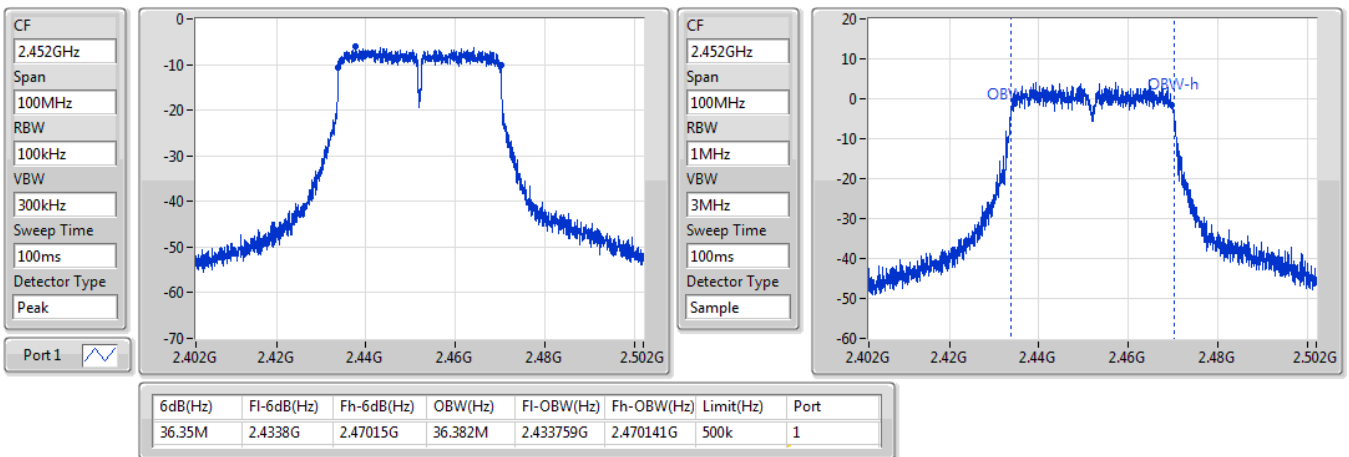


802.11n HT40_Nss1,(MCS0)_1TX
EBW
2437MHz

29/12/2020


802.11n HT40_Nss1,(MCS0)_1TX
EBW
2452MHz

30/12/2020





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	16.15	0.04121
802.11g_Nss1,(6Mbps)_1TX	14.93	0.03112
802.11n HT20_Nss1,(MCS0)_1TX	13.18	0.02080
802.11n HT40_Nss1,(MCS0)_1TX	12.64	0.01837

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	16.15	16.15	30.00
2437MHz	Pass	2.50	16.03	16.03	30.00
2462MHz	Pass	2.50	16.11	16.11	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	14.93	14.93	30.00
2437MHz	Pass	2.50	14.42	14.42	30.00
2462MHz	Pass	2.50	14.69	14.69	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	13.18	13.18	30.00
2437MHz	Pass	2.50	12.86	12.86	30.00
2462MHz	Pass	2.50	13.10	13.10	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	2.50	8.81	8.81	30.00
2437MHz	Pass	2.50	12.64	12.64	30.00
2447MHz	Pass	2.50	11.75	11.75	30.00
2452MHz	Pass	2.50	10.92	10.92	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-6.84
802.11g_Nss1,(6Mbps)_1TX	-14.07
802.11n HT20_Nss1,(MCS0)_1TX	-15.43
802.11n HT40_Nss1,(MCS0)_1TX	-17.83

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	-6.84	-6.84	8.00
2437MHz	Pass	2.50	-7.67	-7.67	8.00
2462MHz	Pass	2.50	-7.74	-7.74	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	-14.08	-14.08	8.00
2437MHz	Pass	2.50	-14.43	-14.43	8.00
2462MHz	Pass	2.50	-14.07	-14.07	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	-15.43	-15.43	8.00
2437MHz	Pass	2.50	-16.05	-16.05	8.00
2462MHz	Pass	2.50	-15.63	-15.63	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	2.50	-21.42	-21.42	8.00
2437MHz	Pass	2.50	-17.83	-17.83	8.00
2452MHz	Pass	2.50	-18.97	-18.97	8.00

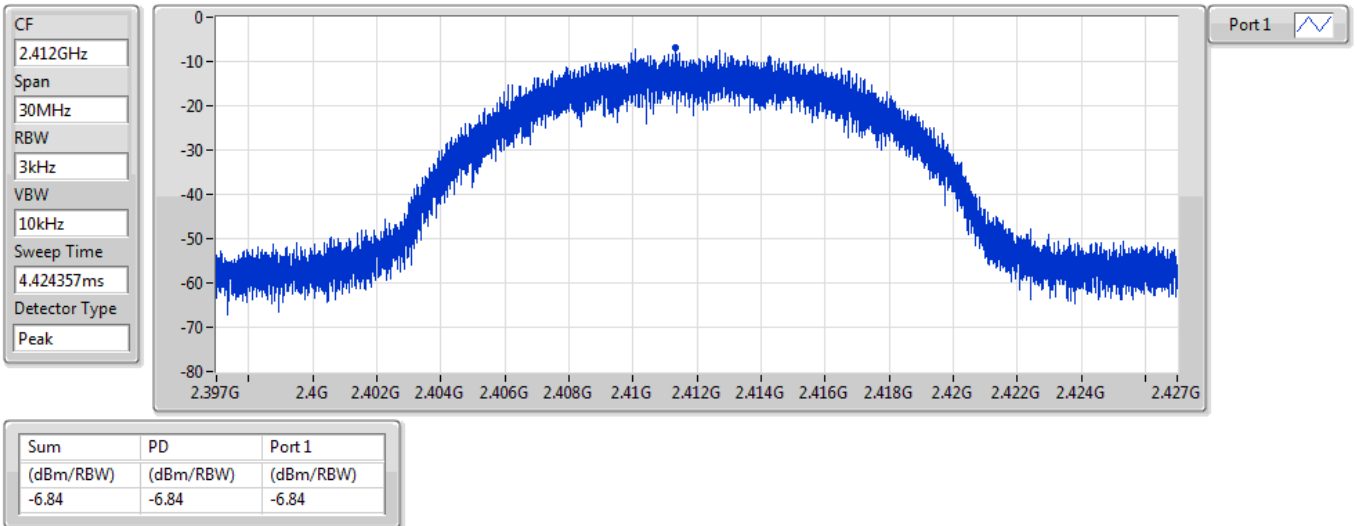
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

30/12/2020

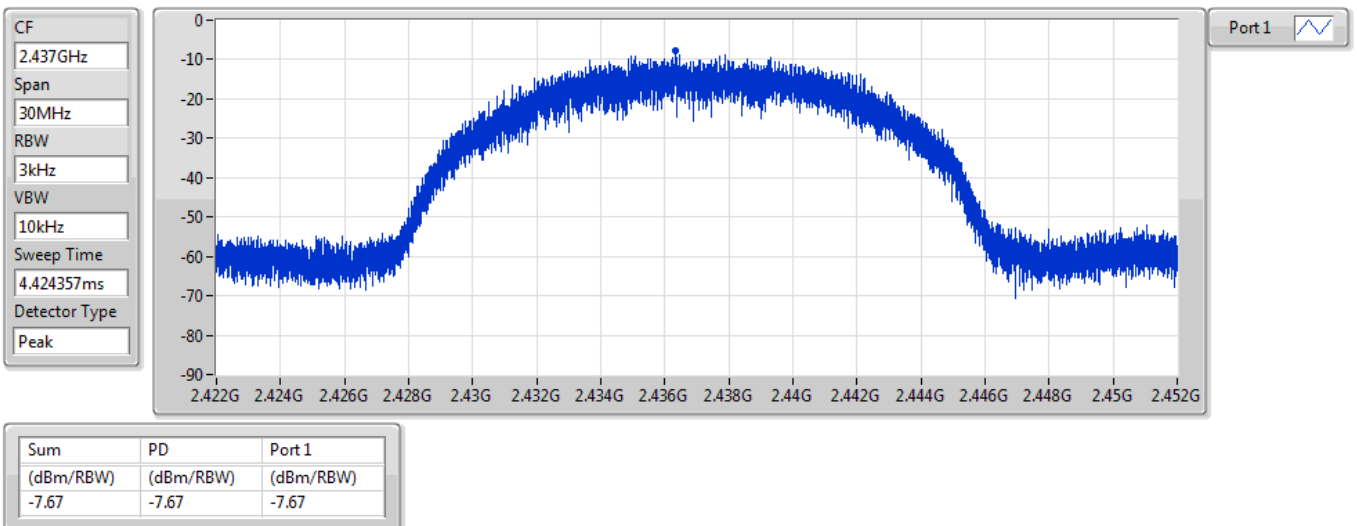


802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

30/12/2020

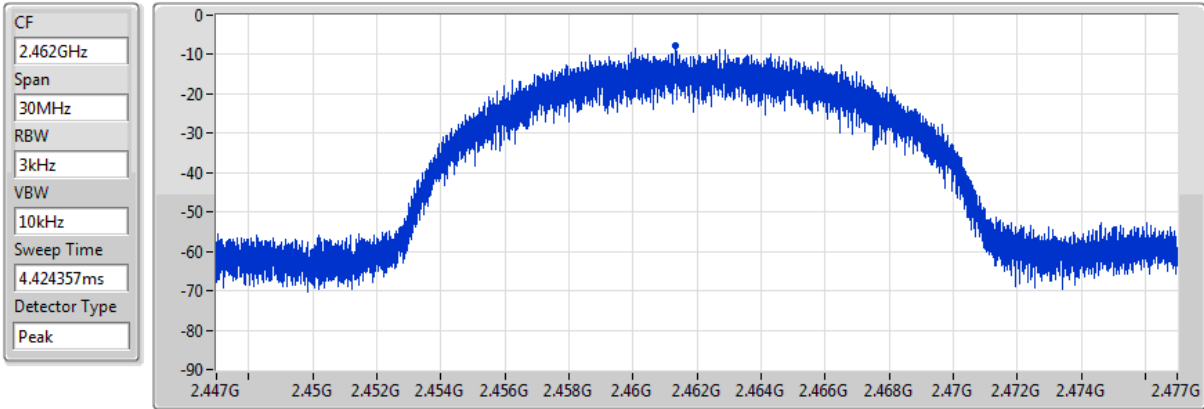


802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

30/12/2020



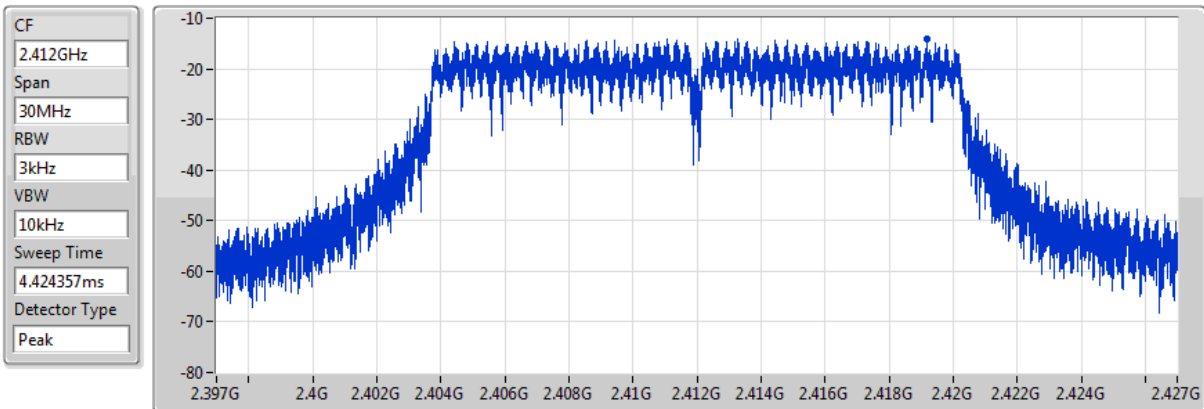
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.74	-7.74	-7.74

802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

29/12/2020



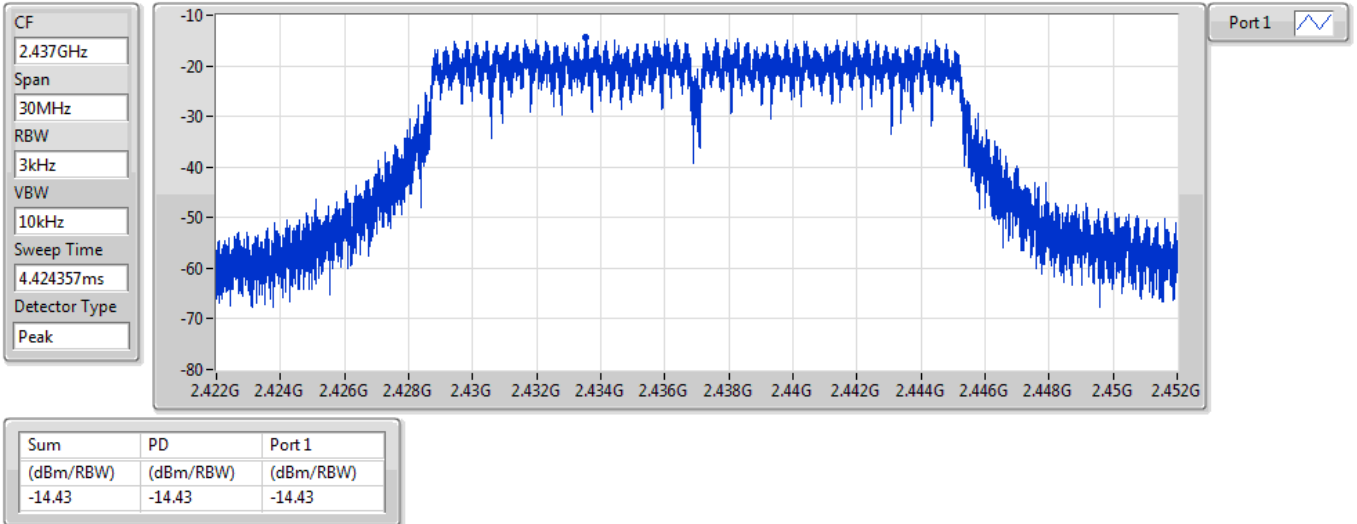
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.08	-14.08	-14.08

802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

29/12/2020

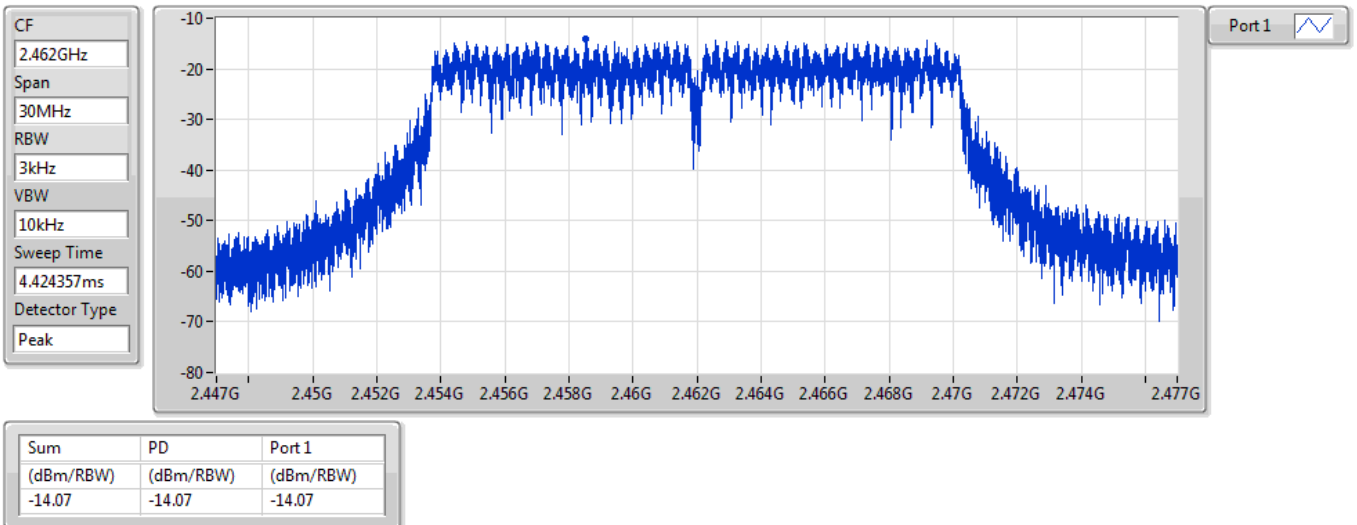


802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

29/12/2020

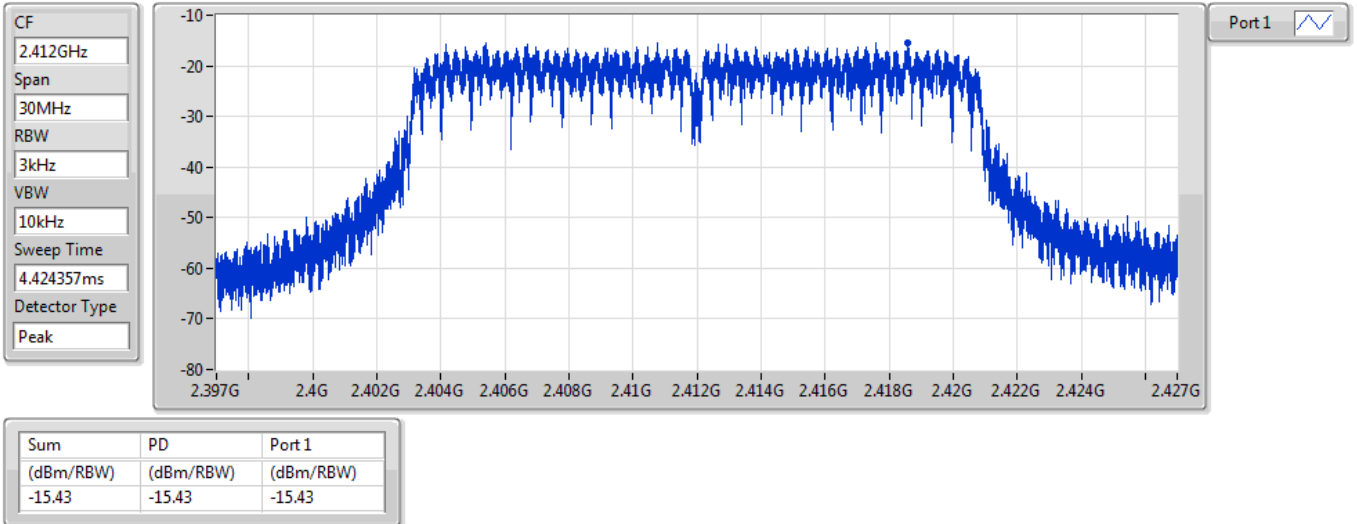


802.11n HT20_Nss1,(MCS0)_1TX

PSD

2412MHz

29/12/2020

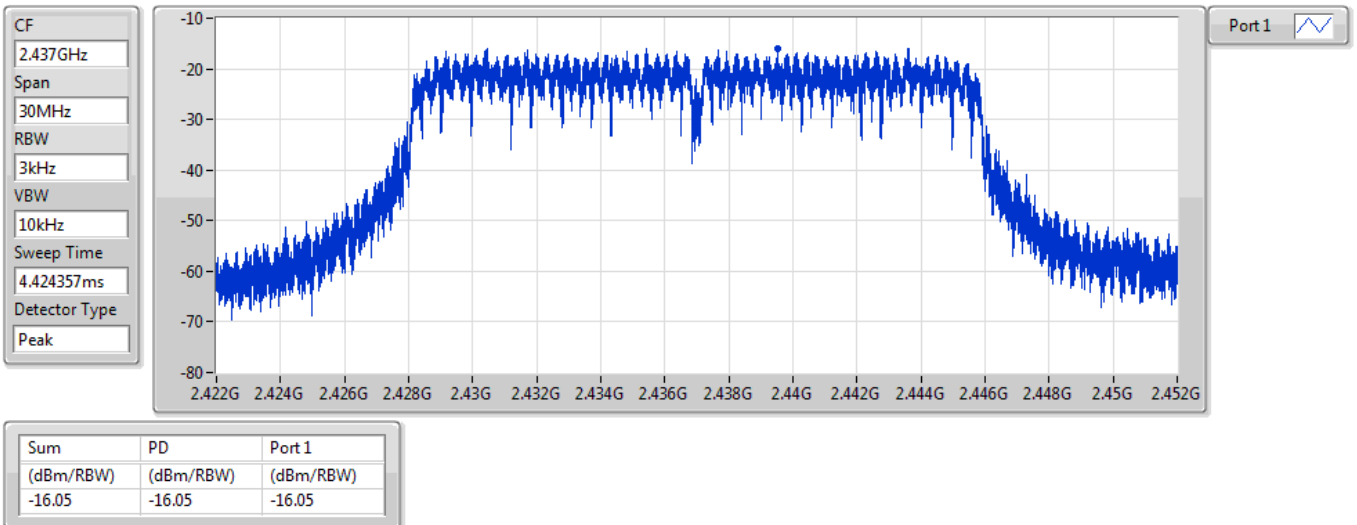


802.11n HT20_Nss1,(MCS0)_1TX

PSD

2437MHz

29/12/2020

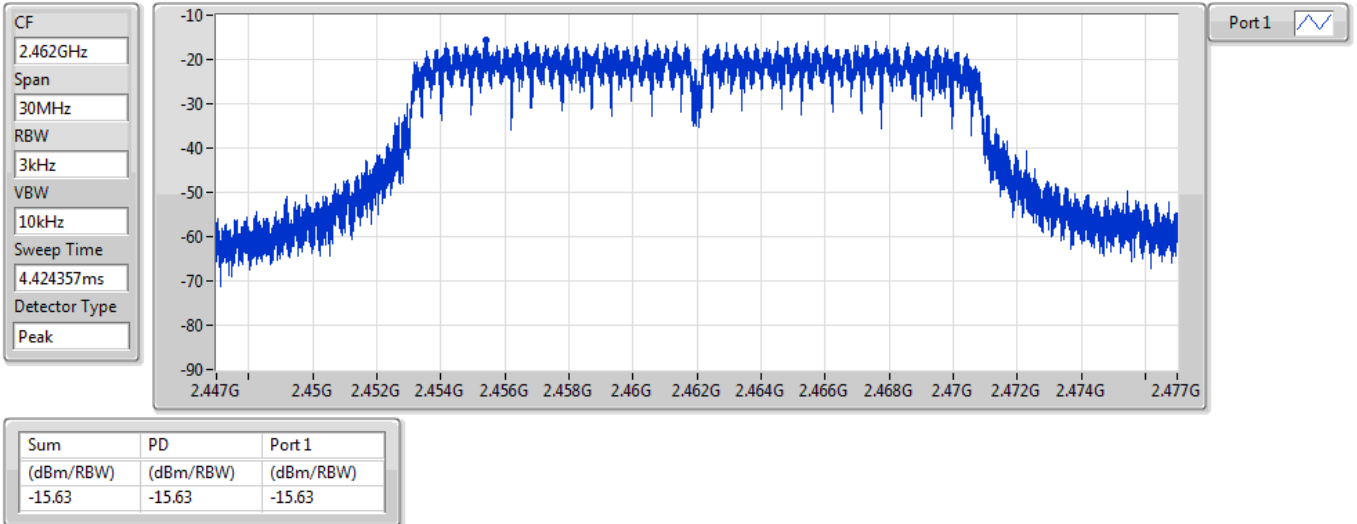


802.11n HT20_Nss1,(MCS0)_1TX

PSD

2462MHz

29/12/2020

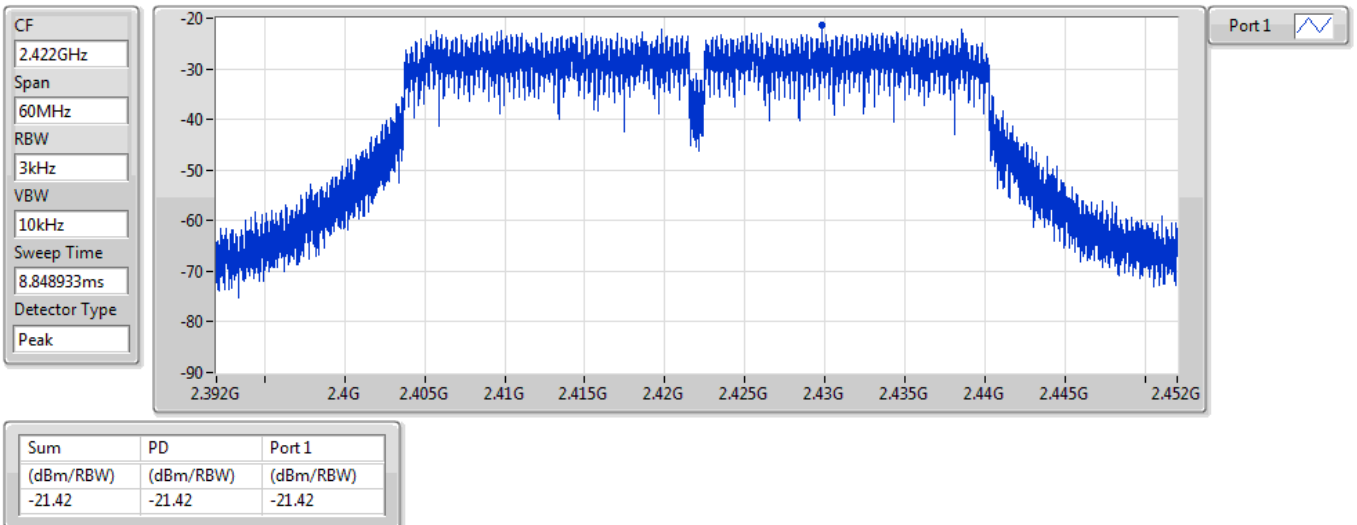


802.11n HT40_Nss1,(MCS0)_1TX

PSD

2422MHz

30/12/2020

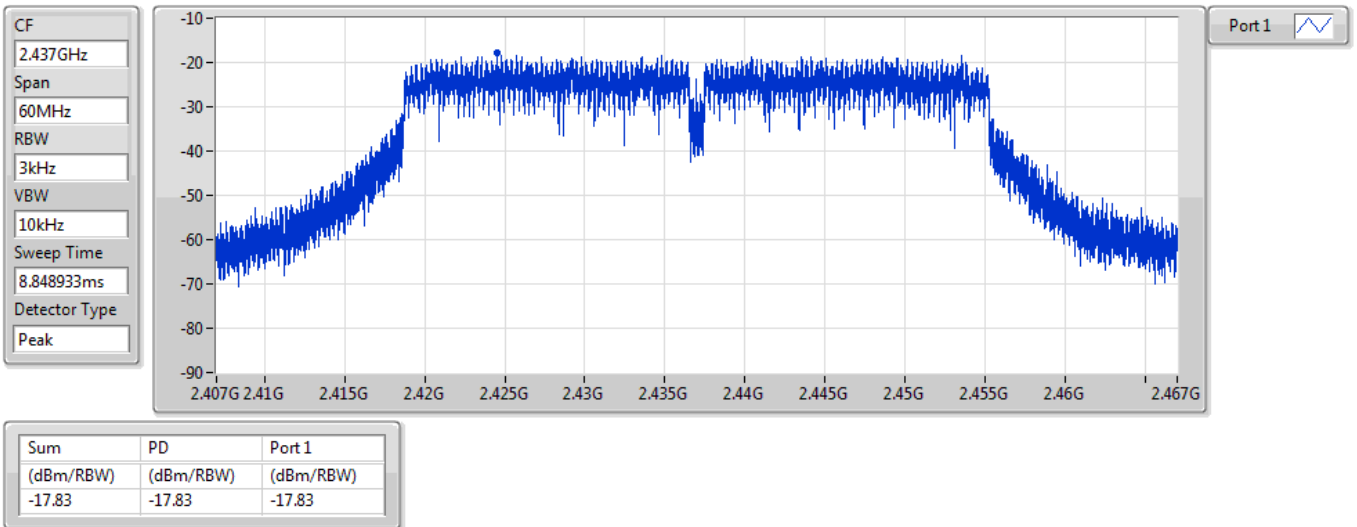


802.11n HT40_Nss1,(MCS0)_1TX

PSD

2437MHz

29/12/2020

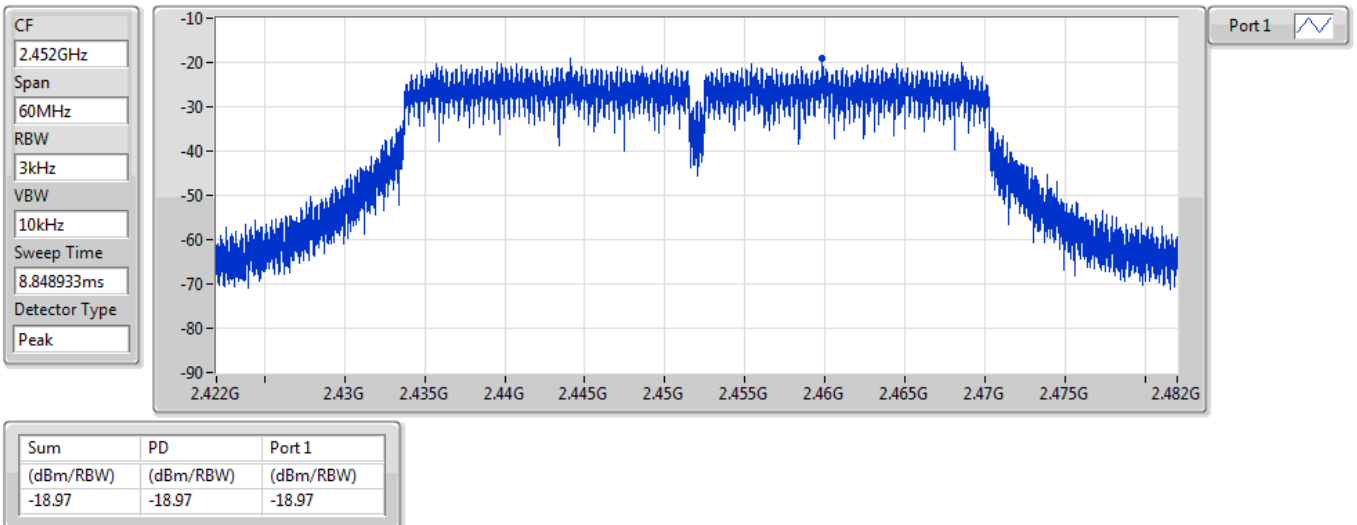


802.11n HT40_Nss1,(MCS0)_1TX

PSD

2452MHz

30/12/2020



**Summary**

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.41244G	7.80	-22.20	807.06M	-52.32	2.3978G	-39.95	2.4G	-42.72	2.49452G	-52.50	15.29296G	-41.18	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.41883G	1.52	-28.48	805.31M	-53.95	2.39984G	-31.66	2.4G	-32.99	2.48976G	-52.15	17.67547G	-41.00	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.4066G	-0.14	-30.14	809.39M	-55.36	2.39962G	-35.06	2.4G	-38.04	2.48588G	-52.31	3.21465G	-41.11	1
802.11n HT40_Nss1,(MCS0)_1TX	Pass	2.42822G	-4.36	-34.36	2.17773G	-55.43	2.39988G	-34.43	2.4G	-35.38	2.52342G	-52.03	3.22818G	-41.03	1

**Result**

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41244G	7.80	-22.20	807.06M	-52.32	2.3978G	-39.95	2.4G	-42.72	2.49452G	-52.50	15.29296G	-41.18	1
2437MHz	Pass	2.41244G	7.80	-22.20	810.26M	-52.65	2.39712G	-52.00	2.4G	-52.70	2.49964G	-52.45	17.65299G	-40.85	1
2462MHz	Pass	2.41244G	7.80	-22.20	820.16M	-50.52	2.39998G	-51.65	2.4G	-53.34	2.48692G	-49.53	15.30139G	-40.91	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41883G	1.52	-28.48	805.31M	-53.95	2.39984G	-31.66	2.4G	-32.99	2.48976G	-52.15	17.67547G	-41.00	1
2437MHz	Pass	2.41883G	1.52	-28.48	2.3067G	-54.44	2.39998G	-52.09	2.4G	-51.55	2.48458G	-52.25	3.24837G	-40.83	1
2462MHz	Pass	2.41883G	1.52	-28.48	827.73M	-54.96	2.39998G	-52.65	2.4835G	-44.13	2.48354G	-42.16	3.28208G	-40.95	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4066G	-0.14	-30.14	809.39M	-55.36	2.39962G	-35.06	2.4G	-38.04	2.48588G	-52.31	3.21465G	-41.11	1
2437MHz	Pass	2.4066G	-0.14	-30.14	2.30845G	-53.89	2.4G	-51.11	2.4G	-51.54	2.49692G	-52.10	3.24837G	-41.31	1
2462MHz	Pass	2.4066G	-0.14	-30.14	2.30699G	-55.12	2.39998G	-52.73	2.4835G	-45.50	2.48418G	-43.59	23.44069G	-40.73	1
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42822G	-4.36	-34.36	2.17773G	-55.43	2.39988G	-34.43	2.4G	-35.38	2.52342G	-52.03	3.22818G	-41.03	1
2437MHz	Pass	2.42822G	-4.36	-34.36	2.30139G	-54.43	2.39852G	-43.51	2.4G	-46.31	2.48358G	-46.06	16.64801G	-41.32	1
2452MHz	Pass	2.42822G	-4.36	-34.36	2.30855G	-55.22	2.4G	-51.02	2.4835G	-43.34	2.48358G	-42.80	23.49395G	-41.00	1

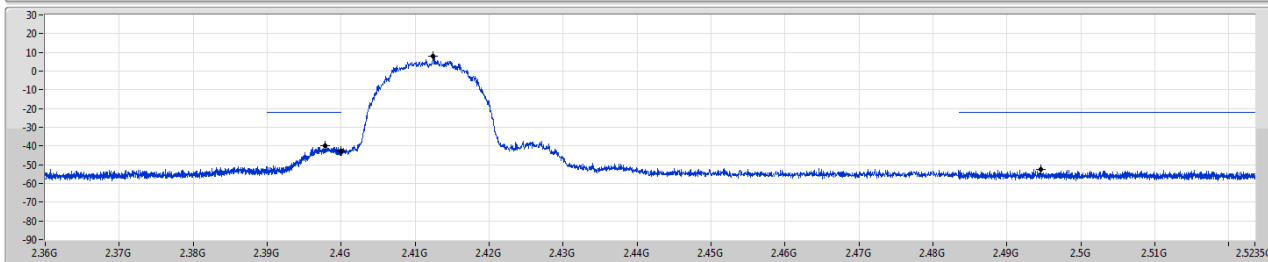
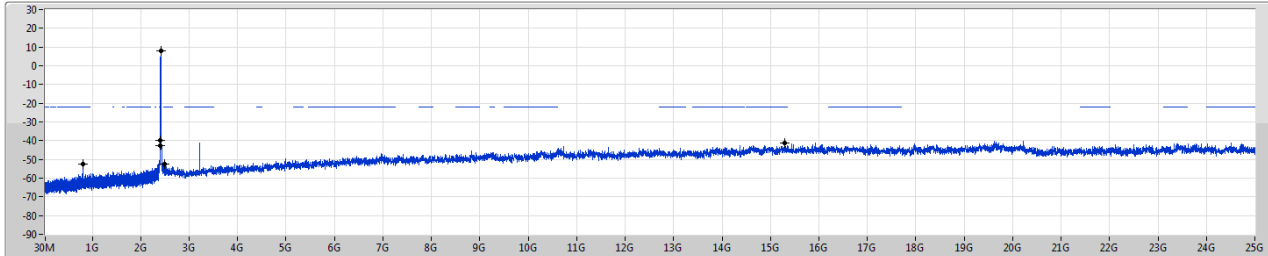
802.11b_Nss1,(1Mbps)_1TX

2412MHz

CSEndB

30/12/2020

Port1



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41244G	7.80	-22.20	807.06M	-52.32	2.3978G	-39.95	2.4G	-42.72	2.49452G	-52.50	15.29296G	-41.18	1

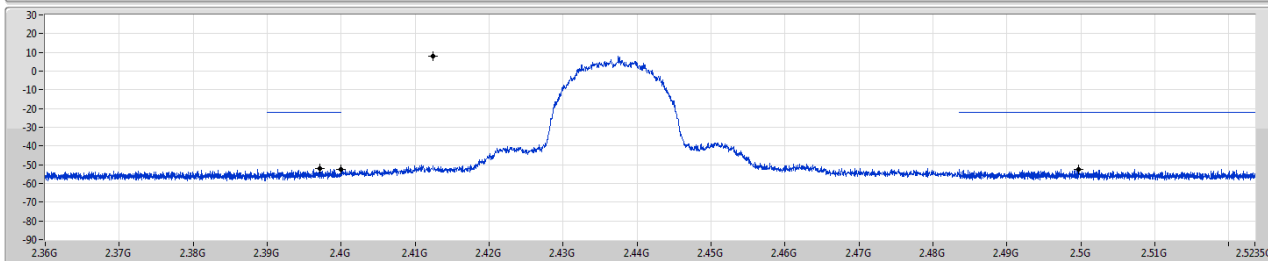
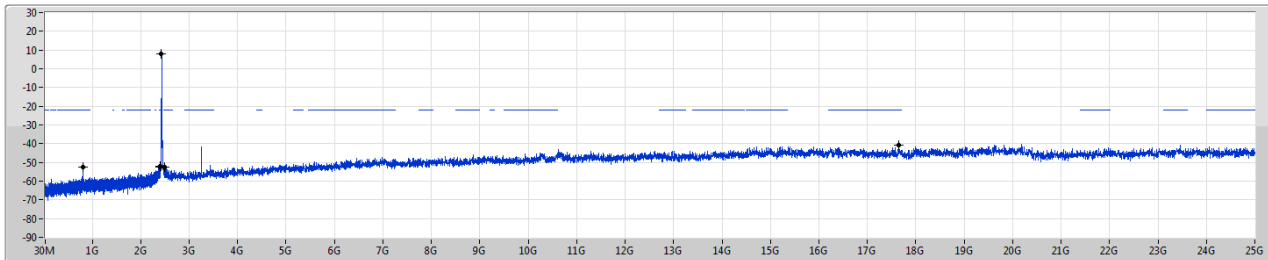
802.11b_Nss1,(1Mbps)_1TX

2437MHz

CSEndB

30/12/2020

Port1



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41244G	7.80	-22.20	810.26M	-52.65	2.39712G	-52.00	2.4G	-52.70	2.49964G	-52.45	17.65299G	-40.85	1

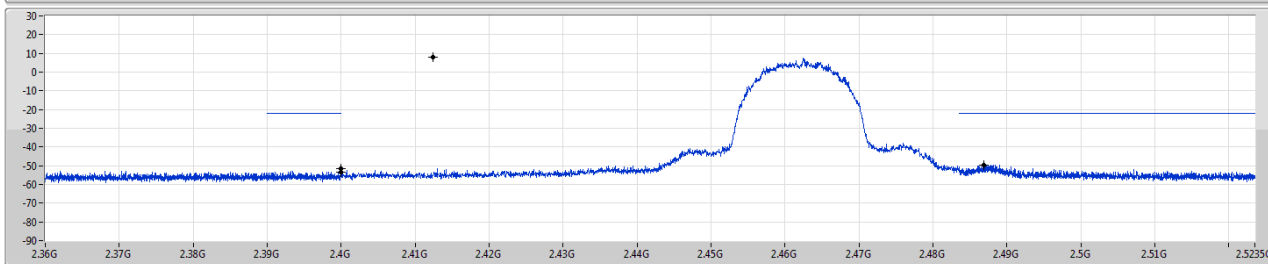
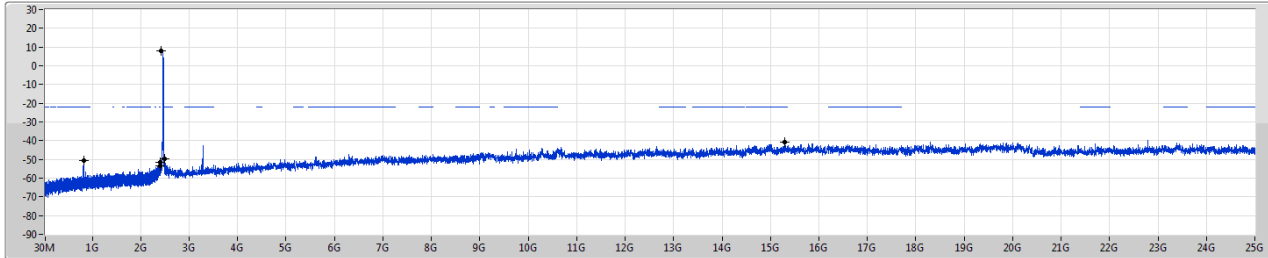
802.11b_Nss1,(1Mbps)_1TX

2462MHz

CSENdB

30/12/2020

Port 1



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41244G	7.80	-22.20	820.16M	-50.52	2.39998G	-51.65	2.4G	-53.34	2.48692G	-49.53	15.30139G	-40.91	1

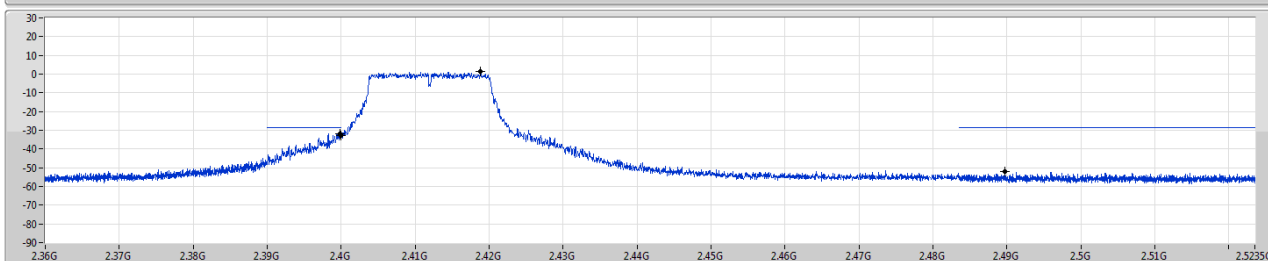
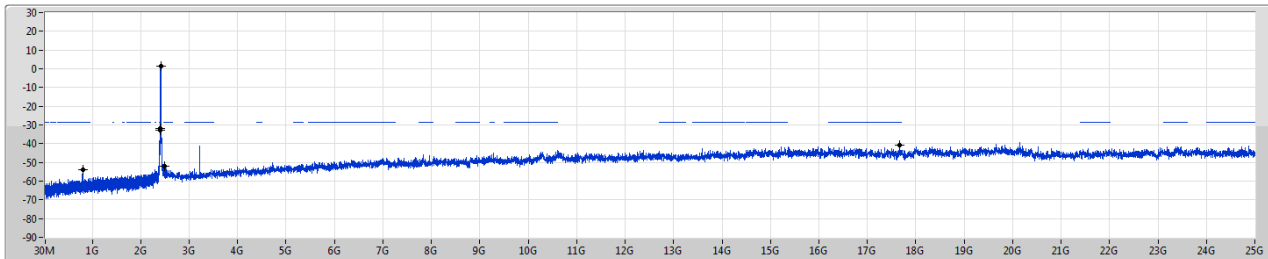
802.11g_Nss1,(6Mbps)_1TX

2412MHz

CSENdB

29/12/2020

Port 1



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41883G	1.52	-28.48	805.31M	-53.95	2.39984G	-31.66	2.4G	-32.99	2.48976G	-52.15	17.67547G	-41.00	1

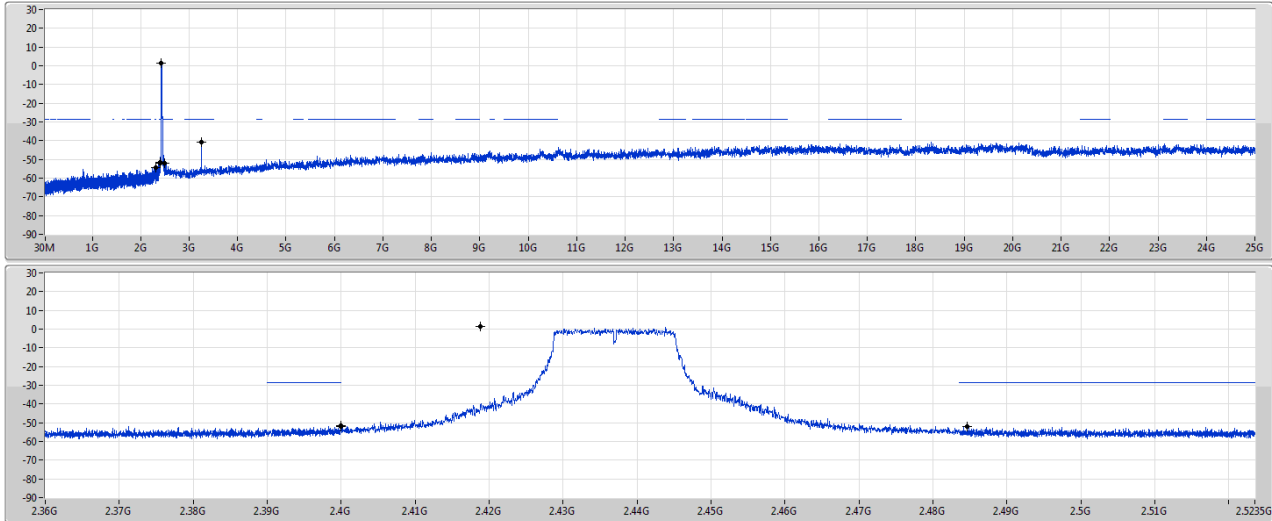
802.11g_Nss1,(6Mbps)_1TX

2437MHz

CSENdB

29/12/2020

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41883G	1.52	-28.48	2.3067G	-54.44	2.39998G	-52.09	2.4G	-51.55	2.48458G	-52.25	3.24837G	-40.83	1

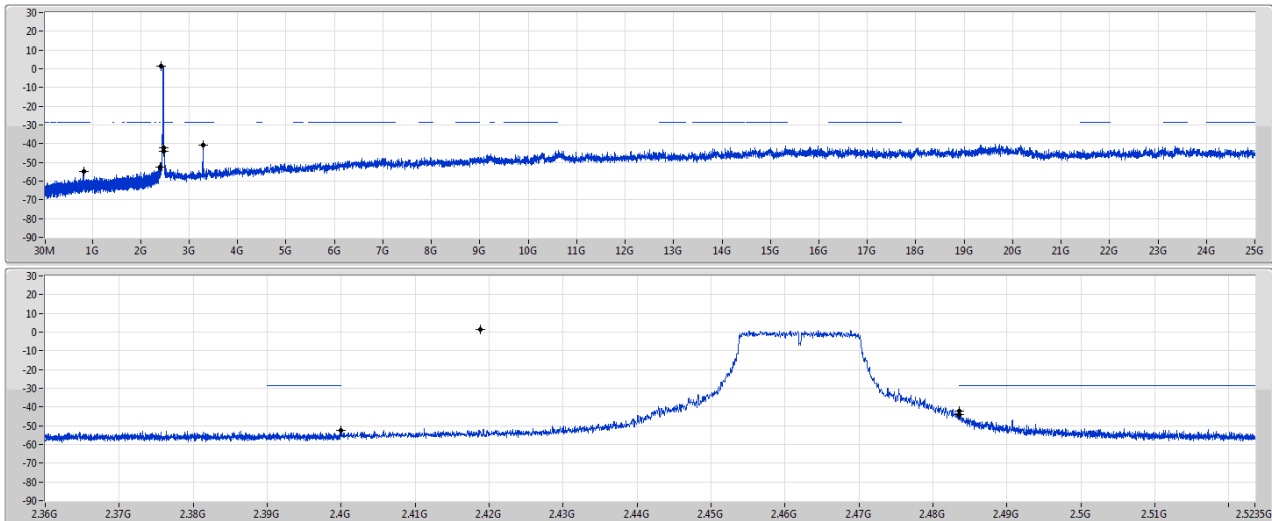
802.11g_Nss1,(6Mbps)_1TX

2462MHz

CSENdB

29/12/2020

Port 1



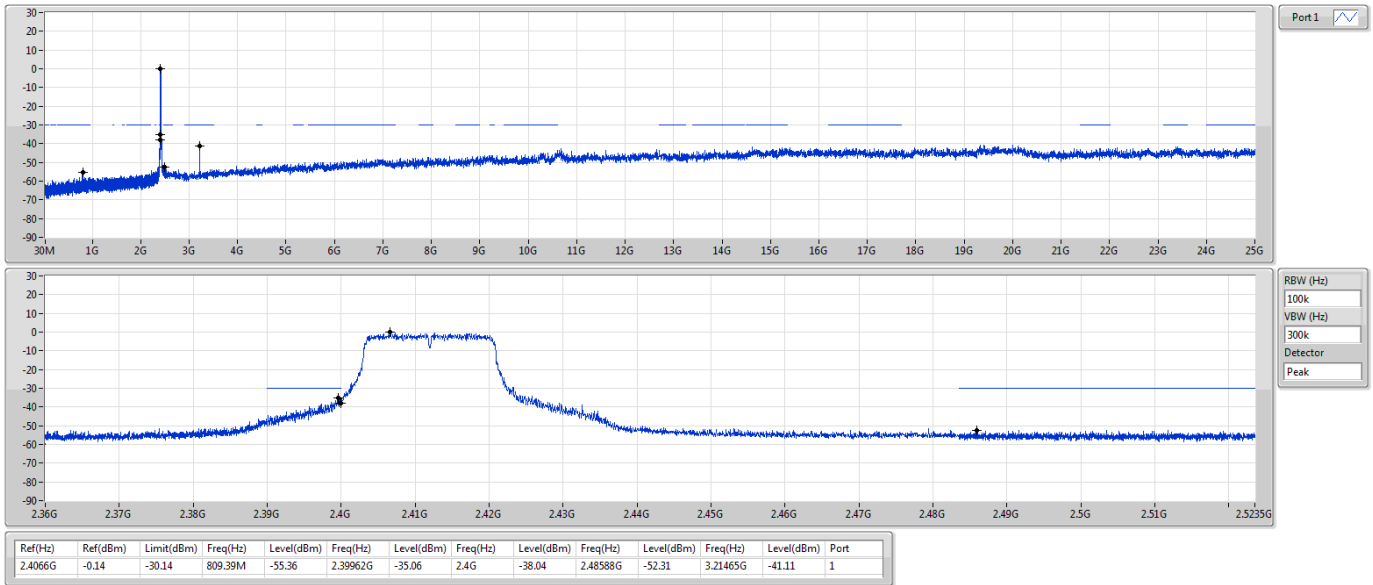
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41883G	1.52	-28.48	827.73M	-54.96	2.39998G	-52.65	2.4835G	-44.13	2.48354G	-42.16	3.28208G	-40.95	1

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz

CSENdB

29/12/2020

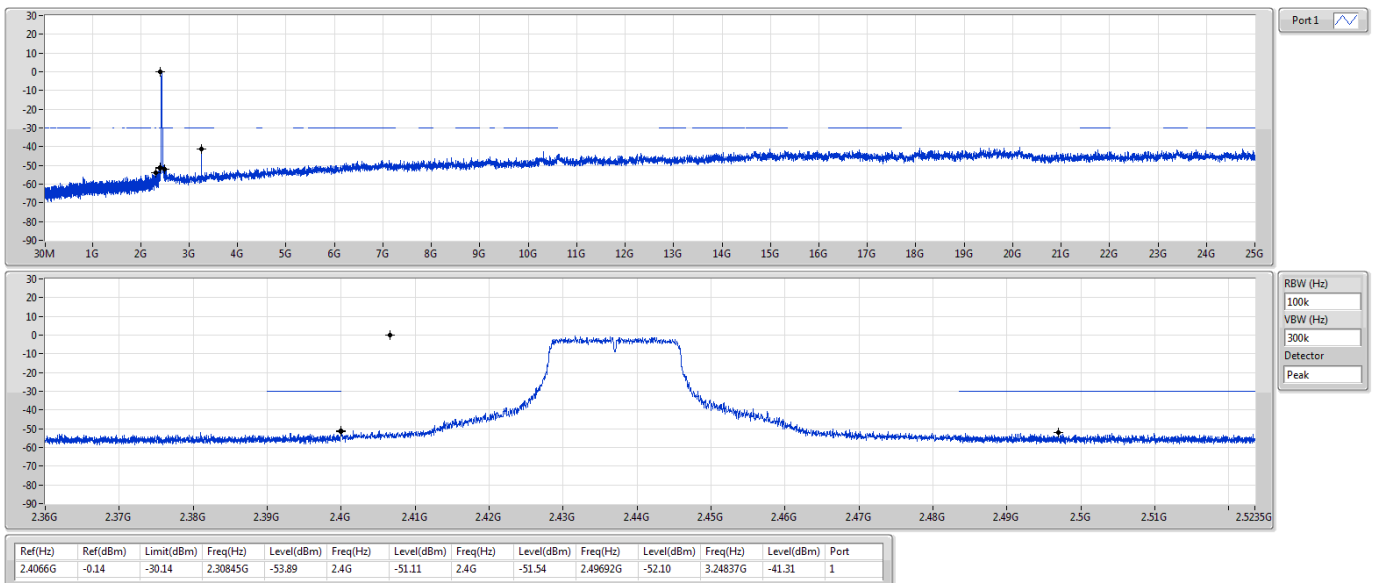


802.11n HT20_Nss1,(MCS0)_1TX

2437MHz

CSENdB

29/12/2020

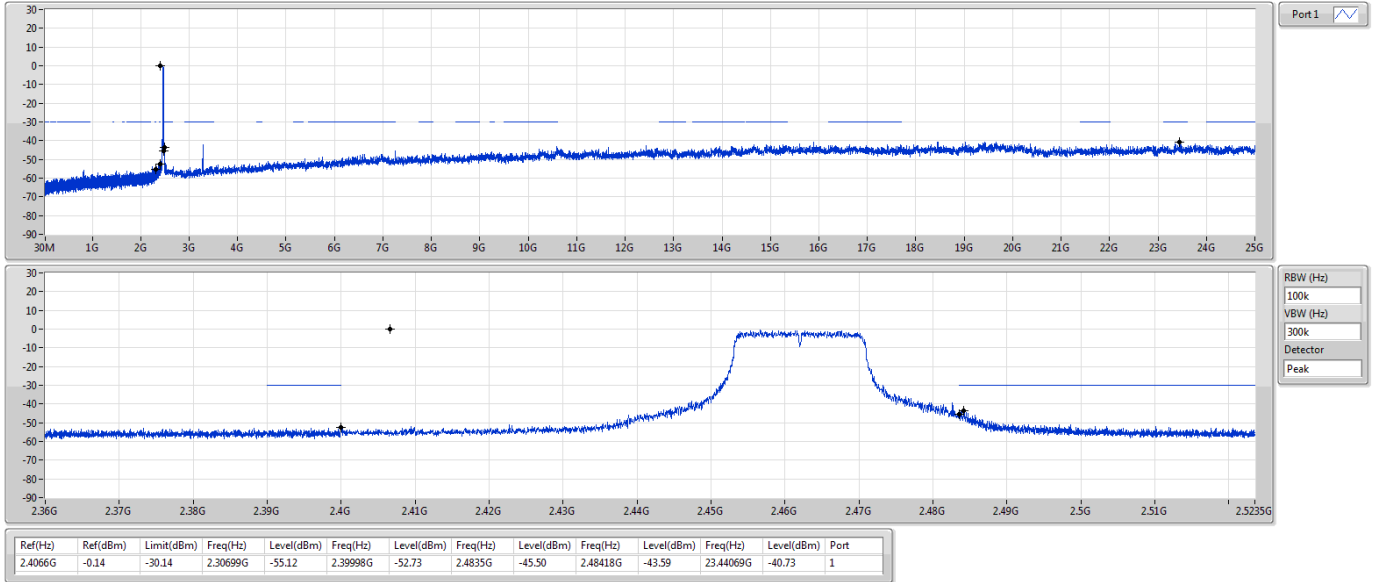


802.11n HT20_Nss1,(MCS0)_1TX

2462MHz

CSENdB

29/12/2020

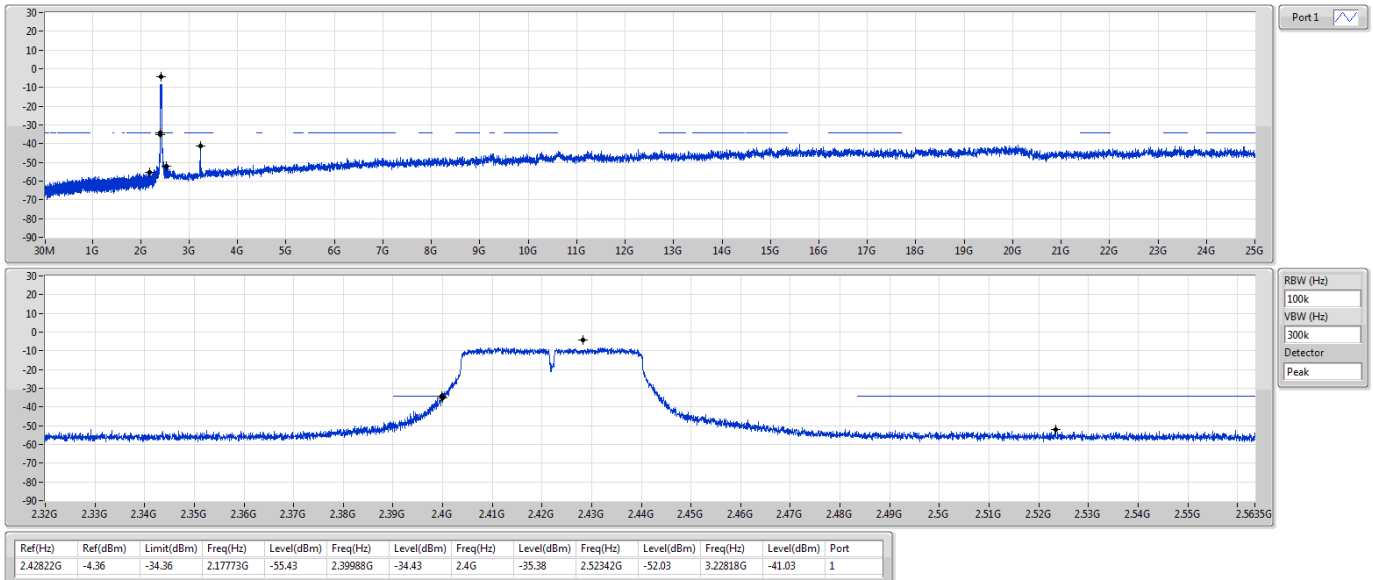


802.11n HT40_Nss1,(MCS0)_1TX

2422MHz

CSENdB

30/12/2020



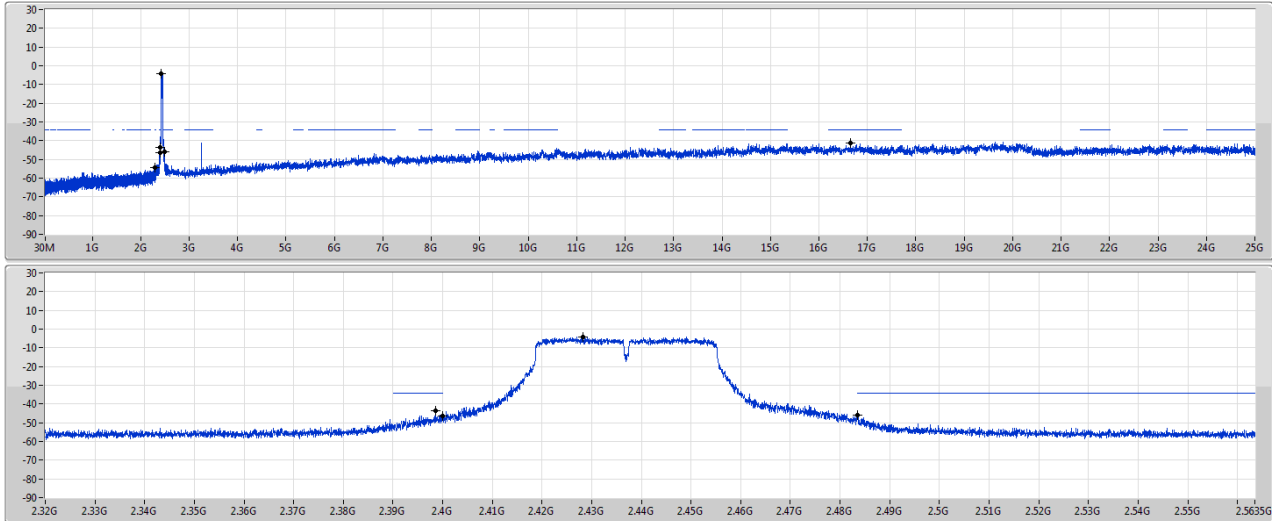
802.11n HT40_Nss1,(MCS0)_1TX

2437MHz

CSENdB

30/12/2020

Port 1



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42822G	-4.36	-34.36	2.30139G	-54.43	2.39852G	-43.51	2.4G	-46.31	2.48358G	-46.06	16.64801G	-41.32	1

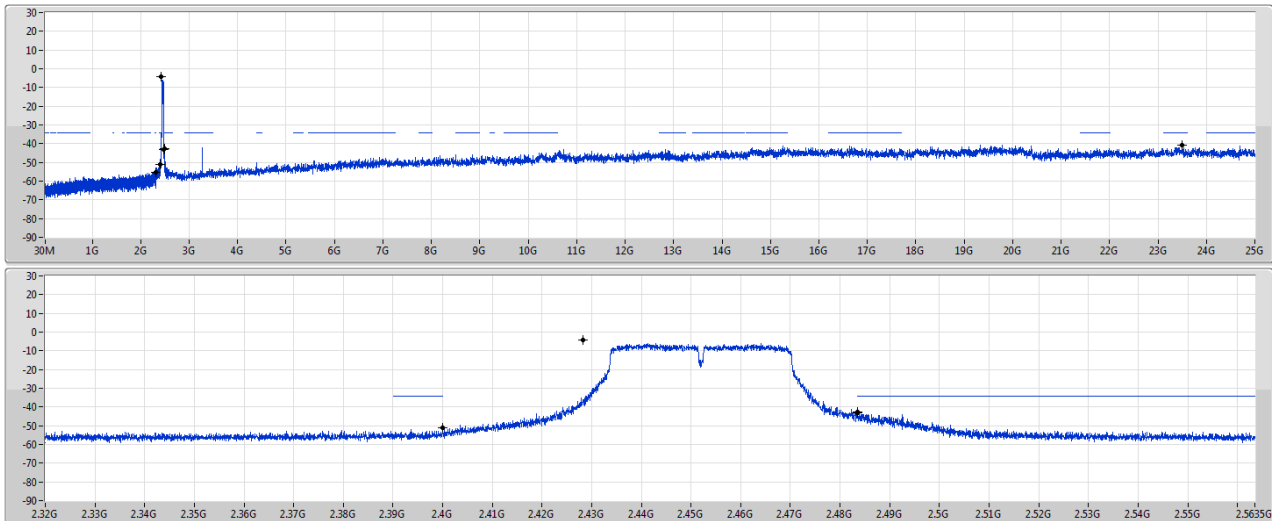
802.11n HT40_Nss1,(MCS0)_1TX

2452MHz

CSENdB

30/12/2020

Port 1



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42822G	-4.36	-34.36	2.30855G	-55.22	2.4G	-51.02	2.4835G	-43.34	2.48358G	-42.80	23.49395G	-41.00	1



Summary

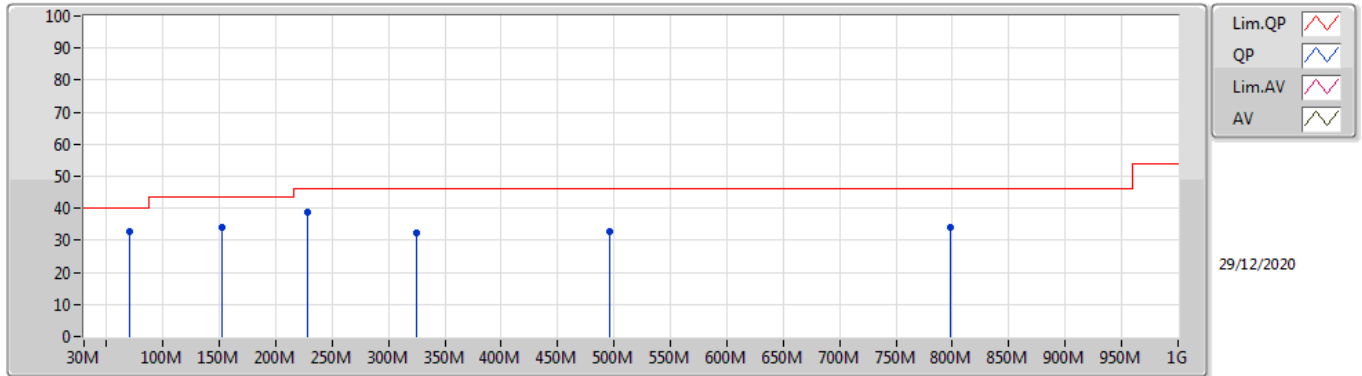
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	PK	70.74M	34.37	40.00	-5.63	3	Horizontal	360	1.00	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1.(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	152.22M	33.95	43.50	-9.55	3	Vertical	0	1.00	-
2437MHz	Pass	PK	227.88M	38.68	46.00	-7.32	3	Vertical	0	1.00	-
2437MHz	Pass	PK	324.88M	32.51	46.00	-13.49	3	Vertical	0	1.00	-
2437MHz	Pass	PK	495.6M	32.83	46.00	-13.17	3	Vertical	0	1.00	-
2437MHz	Pass	PK	798.24M	34.02	46.00	-11.98	3	Vertical	0	1.00	-
2437MHz	Pass	QP	70.74M	32.60	40.00	-7.40	3	Vertical	75	1.00	-
2437MHz	Pass	PK	70.74M	34.37	40.00	-5.63	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	99.84M	36.15	43.50	-7.35	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	324.88M	34.04	46.00	-11.96	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	495.6M	32.15	46.00	-13.85	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	730.34M	34.68	46.00	-11.32	3	Horizontal	360	1.00	-
2437MHz	Pass	QP	216M	34.00	46.00	-12.00	3	Horizontal	0	1.17	-

802.11n HT40_Nss1,(MCS0)_1TX

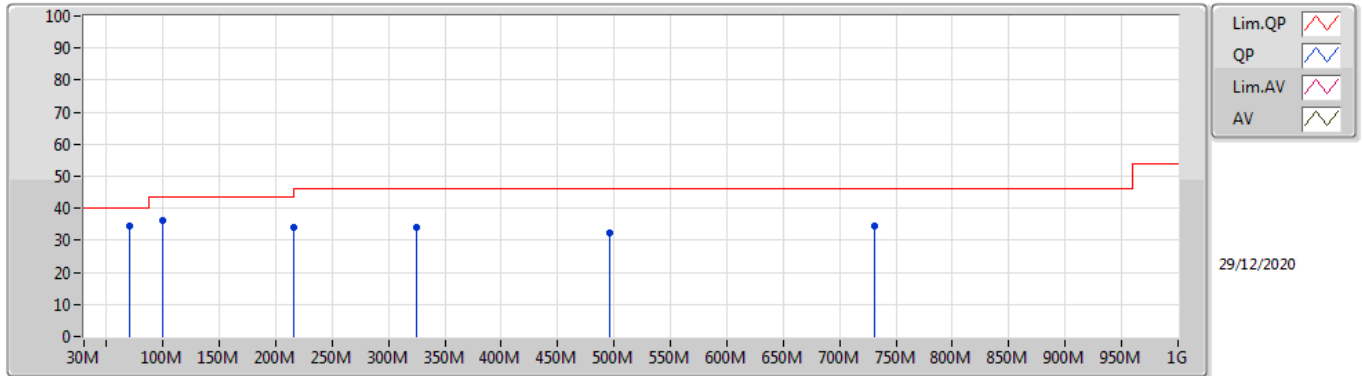
2437MHz_Test Fixture



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	152.22M	33.95	43.50	-9.55	-9.77	3	Vertical	0	1.00	-	43.72	15.44	1.96	27.17
PK	227.88M	38.68	46.00	-7.32	-9.15	3	Vertical	0	1.00	-	47.83	15.18	2.47	26.80
PK	324.88M	32.51	46.00	-13.49	-4.93	3	Vertical	0	1.00	-	37.44	18.86	3.00	26.79
PK	495.6M	32.83	46.00	-13.17	-1.42	3	Vertical	0	1.00	-	34.25	22.69	3.67	27.78
PK	798.24M	34.02	46.00	-11.98	2.60	3	Vertical	0	1.00	-	31.42	25.61	4.79	27.80
QP	70.74M	32.60	40.00	-7.40	-14.79	3	Vertical	75	1.00	-	47.39	11.35	1.31	27.45

802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_Test Fixture



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	70.74M	34.37	40.00	-5.63	-14.79	3	Horizontal	360	1.00	-	49.16	11.35	1.31	27.45
PK	99.84M	36.15	43.50	-7.35	-9.59	3	Horizontal	360	1.00	-	45.74	16.20	1.60	27.39
PK	324.88M	34.04	46.00	-11.96	-4.93	3	Horizontal	360	1.00	-	38.97	18.86	3.00	26.79
PK	495.6M	32.15	46.00	-13.85	-1.42	3	Horizontal	360	1.00	-	33.57	22.69	3.67	27.78
PK	730.34M	34.68	46.00	-11.32	1.71	3	Horizontal	360	1.00	-	32.97	25.19	4.52	28.00
QP	216M	34.00	46.00	-12.00	-10.26	3	Horizontal	0	1.17	-	44.26	14.19	2.40	26.85

**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)_1TX	Pass	AV	4.82316G	53.84	54.00	-0.16	3	Vertical	178	1.62	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4835G	50.99	54.00	-3.01	3	Vertical	108	1.06	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.4835G	50.13	54.00	-3.87	3	Vertical	108	1.05	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	AV	2.485G	53.87	54.00	-0.13	3	Horizontal	344	1.45	-



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)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	47.27	54.00	-6.73	3	Vertical	78	1.41	-
2412MHz	Pass	AV	2.4128G	98.73	Inf	-Inf	3	Vertical	78	1.41	-
2412MHz	Pass	PK	2.3746G	59.46	74.00	-14.54	3	Vertical	78	1.41	-
2412MHz	Pass	PK	2.4124G	108.04	Inf	-Inf	3	Vertical	78	1.41	-
2412MHz	Pass	AV	2.39G	47.27	54.00	-6.73	3	Horizontal	342	1.14	-
2412MHz	Pass	AV	2.4128G	100.98	Inf	-Inf	3	Horizontal	342	1.14	-
2412MHz	Pass	PK	2.3678G	59.52	74.00	-14.48	3	Horizontal	342	1.14	-
2412MHz	Pass	PK	2.4124G	110.09	Inf	-Inf	3	Horizontal	342	1.14	-
2412MHz	Pass	AV	4.82316G	53.84	54.00	-0.16	3	Vertical	178	1.62	-
2412MHz	Pass	PK	4.82408G	62.60	74.00	-11.40	3	Vertical	178	1.62	-
2412MHz	Pass	AV	4.82316G	50.89	54.00	-3.11	3	Horizontal	30	2.44	-
2412MHz	Pass	PK	4.82408G	59.78	74.00	-14.22	3	Horizontal	30	2.44	-
2437MHz	Pass	AV	2.3414G	47.32	54.00	-6.68	3	Vertical	74	1.65	-
2437MHz	Pass	AV	2.4378G	97.46	Inf	-Inf	3	Vertical	74	1.65	-
2437MHz	Pass	AV	2.497G	47.86	54.00	-6.14	3	Vertical	74	1.65	-
2437MHz	Pass	PK	2.367G	59.32	74.00	-14.68	3	Vertical	74	1.65	-
2437MHz	Pass	PK	2.4374G	106.67	Inf	-Inf	3	Vertical	74	1.65	-
2437MHz	Pass	PK	2.4918G	59.56	74.00	-14.44	3	Vertical	74	1.65	-
2437MHz	Pass	AV	2.3374G	47.37	54.00	-6.63	3	Horizontal	343	1.50	-
2437MHz	Pass	AV	2.4362G	100.37	Inf	-Inf	3	Horizontal	343	1.50	-
2437MHz	Pass	AV	2.4874G	47.86	54.00	-6.14	3	Horizontal	343	1.50	-
2437MHz	Pass	PK	2.3374G	59.45	74.00	-14.55	3	Horizontal	343	1.50	-
2437MHz	Pass	PK	2.4374G	109.50	Inf	-Inf	3	Horizontal	343	1.50	-
2437MHz	Pass	PK	2.4934G	59.33	74.00	-14.67	3	Horizontal	343	1.50	-
2437MHz	Pass	AV	4.87316G	53.50	54.00	-0.50	3	Vertical	166	1.57	-
2437MHz	Pass	PK	4.87408G	62.28	74.00	-11.72	3	Vertical	166	1.57	-
2437MHz	Pass	AV	4.8732G	50.67	54.00	-3.33	3	Horizontal	34	2.29	-
2437MHz	Pass	PK	4.87408G	59.60	74.00	-14.40	3	Horizontal	34	2.29	-
2462MHz	Pass	AV	2.4628G	100.47	Inf	-Inf	3	Vertical	109	1.00	-
2462MHz	Pass	AV	2.4868G	48.37	54.00	-5.63	3	Vertical	109	1.00	-
2462MHz	Pass	PK	2.4626G	109.57	Inf	-Inf	3	Vertical	109	1.00	-
2462MHz	Pass	PK	2.4988G	60.01	74.00	-13.99	3	Vertical	109	1.00	-
2462MHz	Pass	AV	2.4628G	100.09	Inf	-Inf	3	Horizontal	64	1.07	-
2462MHz	Pass	AV	2.4868G	48.37	54.00	-5.63	3	Horizontal	64	1.07	-
2462MHz	Pass	PK	2.4624G	109.29	Inf	-Inf	3	Horizontal	64	1.07	-
2462MHz	Pass	PK	2.4928G	60.43	74.00	-13.57	3	Horizontal	64	1.07	-
2462MHz	Pass	AV	4.92316G	50.52	54.00	-3.48	3	Vertical	192	1.43	-
2462MHz	Pass	PK	4.92408G	59.65	74.00	-14.35	3	Vertical	192	1.43	-
2462MHz	Pass	AV	4.92316G	45.40	54.00	-8.60	3	Horizontal	303	2.21	-
2462MHz	Pass	PK	4.92404G	54.90	74.00	-19.10	3	Horizontal	303	2.21	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3898G	48.32	54.00	-5.68	3	Vertical	103	1.32	-
2412MHz	Pass	AV	2.417G	95.12	Inf	-Inf	3	Vertical	103	1.32	-
2412MHz	Pass	PK	2.389G	59.98	74.00	-14.02	3	Vertical	103	1.32	-
2412MHz	Pass	PK	2.4128G	103.91	Inf	-Inf	3	Vertical	103	1.32	-
2412MHz	Pass	AV	2.3898G	48.32	54.00	-5.68	3	Horizontal	63	1.09	-
2412MHz	Pass	AV	2.4172G	94.23	Inf	-Inf	3	Horizontal	63	1.09	-
2412MHz	Pass	PK	2.3856G	60.47	74.00	-13.53	3	Horizontal	63	1.09	-
2412MHz	Pass	PK	2.4128G	102.95	Inf	-Inf	3	Horizontal	63	1.09	-
2412MHz	Pass	AV	4.82588G	47.50	54.00	-6.50	3	Vertical	188	1.50	-
2412MHz	Pass	PK	4.82472G	60.34	74.00	-13.66	3	Vertical	188	1.50	-
2412MHz	Pass	AV	4.82592G	45.50	54.00	-8.50	3	Horizontal	18	1.24	-
2412MHz	Pass	PK	4.82464G	58.17	74.00	-15.83	3	Horizontal	18	1.24	-
2437MHz	Pass	AV	2.3862G	47.46	54.00	-6.54	3	Vertical	107	1.10	-
2437MHz	Pass	AV	2.4422G	94.77	Inf	-Inf	3	Vertical	107	1.10	-
2437MHz	Pass	AV	2.4854G	48.09	54.00	-5.91	3	Vertical	107	1.10	-
2437MHz	Pass	PK	2.3526G	59.92	74.00	-14.08	3	Vertical	107	1.10	-
2437MHz	Pass	PK	2.4426G	103.33	Inf	-Inf	3	Vertical	107	1.10	-
2437MHz	Pass	PK	2.4974G	60.23	74.00	-13.77	3	Vertical	107	1.10	-
2437MHz	Pass	AV	2.337G	47.31	54.00	-6.69	3	Horizontal	32	1.43	-

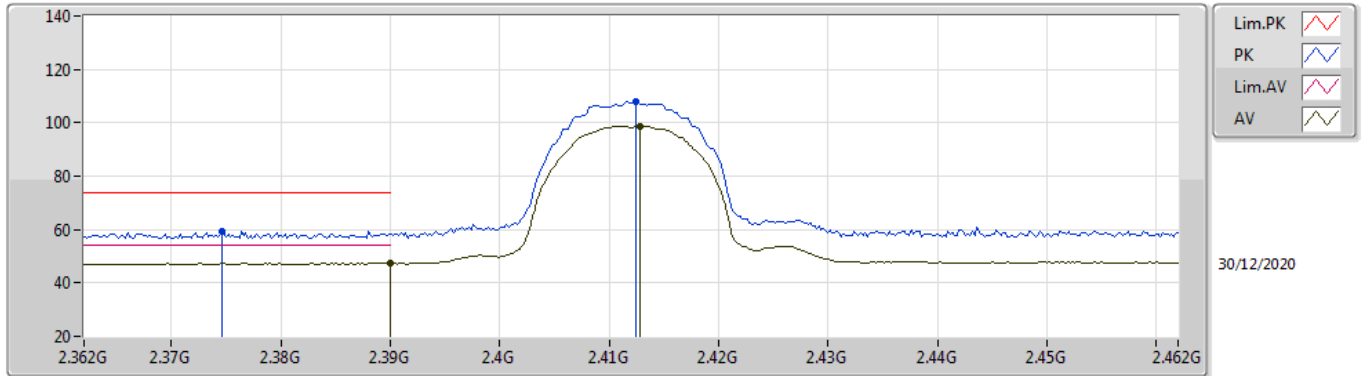
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	AV	2.4422G	93.62	Inf	-Inf	3	Horizontal	32	1.43	-
2437MHz	Pass	AV	2.4862G	48.09	54.00	-5.91	3	Horizontal	32	1.43	-
2437MHz	Pass	PK	2.3626G	59.93	74.00	-14.07	3	Horizontal	32	1.43	-
2437MHz	Pass	PK	2.4426G	102.13	Inf	-Inf	3	Horizontal	32	1.43	-
2437MHz	Pass	PK	2.4846G	60.15	74.00	-13.85	3	Horizontal	32	1.43	-
2437MHz	Pass	AV	4.87596G	47.15	54.00	-6.85	3	Vertical	192	1.21	-
2437MHz	Pass	PK	4.87472G	59.74	74.00	-14.26	3	Vertical	192	1.21	-
2437MHz	Pass	AV	4.876G	45.46	54.00	-8.54	3	Horizontal	11	1.02	-
2437MHz	Pass	PK	4.87416G	57.96	74.00	-16.04	3	Horizontal	11	1.02	-
2462MHz	Pass	AV	2.4672G	95.17	Inf	-Inf	3	Vertical	108	1.06	-
2462MHz	Pass	AV	2.4835G	50.99	54.00	-3.01	3	Vertical	108	1.06	-
2462MHz	Pass	PK	2.4628G	103.97	Inf	-Inf	3	Vertical	108	1.06	-
2462MHz	Pass	PK	2.4835G	63.98	74.00	-10.02	3	Vertical	108	1.06	-
2462MHz	Pass	AV	2.4672G	94.51	Inf	-Inf	3	Horizontal	65	1.00	-
2462MHz	Pass	AV	2.4835G	50.99	54.00	-3.01	3	Horizontal	65	1.00	-
2462MHz	Pass	PK	2.4676G	103.03	Inf	-Inf	3	Horizontal	65	1.00	-
2462MHz	Pass	PK	2.4835G	63.30	74.00	-10.70	3	Horizontal	65	1.00	-
2462MHz	Pass	AV	4.92592G	44.69	54.00	-9.31	3	Vertical	192	1.27	-
2462MHz	Pass	PK	4.9246G	57.99	74.00	-16.01	3	Vertical	192	1.27	-
2462MHz	Pass	AV	4.922G	41.87	54.00	-12.13	3	Horizontal	304	2.31	-
2462MHz	Pass	PK	4.92476G	54.67	74.00	-19.33	3	Horizontal	304	2.31	-
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	47.78	54.00	-6.22	3	Vertical	103	1.30	-
2412MHz	Pass	AV	2.4172G	93.37	Inf	-Inf	3	Vertical	103	1.30	-
2412MHz	Pass	PK	2.3896G	60.19	74.00	-13.81	3	Vertical	103	1.30	-
2412MHz	Pass	PK	2.4168G	102.79	Inf	-Inf	3	Vertical	103	1.30	-
2412MHz	Pass	AV	2.3896G	48.05	54.00	-5.95	3	Horizontal	64	1.09	-
2412MHz	Pass	AV	2.4172G	92.45	Inf	-Inf	3	Horizontal	64	1.09	-
2412MHz	Pass	PK	2.3778G	59.98	74.00	-14.02	3	Horizontal	64	1.09	-
2412MHz	Pass	PK	2.4168G	101.83	Inf	-Inf	3	Horizontal	64	1.09	-
2412MHz	Pass	AV	4.82104G	45.07	54.00	-8.93	3	Vertical	222	1.47	-
2412MHz	Pass	PK	4.82G	58.27	74.00	-15.73	3	Vertical	222	1.47	-
2412MHz	Pass	AV	4.82712G	43.76	54.00	-10.24	3	Horizontal	19	1.00	-
2412MHz	Pass	PK	4.82668G	57.18	74.00	-16.82	3	Horizontal	19	1.00	-
2437MHz	Pass	AV	2.3854G	47.45	54.00	-6.55	3	Vertical	107	1.11	-
2437MHz	Pass	AV	2.4422G	92.96	Inf	-Inf	3	Vertical	107	1.11	-
2437MHz	Pass	AV	2.4854G	48.09	54.00	-5.91	3	Vertical	107	1.11	-
2437MHz	Pass	PK	2.3874G	59.26	74.00	-14.74	3	Vertical	107	1.11	-
2437MHz	Pass	PK	2.4418G	102.18	Inf	-Inf	3	Vertical	107	1.11	-
2437MHz	Pass	PK	2.4898G	59.94	74.00	-14.06	3	Vertical	107	1.11	-
2437MHz	Pass	AV	2.3774G	47.42	54.00	-6.58	3	Horizontal	33	1.42	-
2437MHz	Pass	AV	2.4422G	91.83	Inf	-Inf	3	Horizontal	33	1.42	-
2437MHz	Pass	AV	2.4874G	48.09	54.00	-5.91	3	Horizontal	33	1.42	-
2437MHz	Pass	PK	2.3846G	59.14	74.00	-14.86	3	Horizontal	33	1.42	-
2437MHz	Pass	PK	2.4418G	101.05	Inf	-Inf	3	Horizontal	33	1.42	-
2437MHz	Pass	PK	2.4854G	60.51	74.00	-13.49	3	Horizontal	33	1.42	-
2437MHz	Pass	AV	4.87104G	43.82	54.00	-10.18	3	Vertical	193	1.21	-
2437MHz	Pass	PK	4.8766G	57.28	74.00	-16.72	3	Vertical	193	1.21	-
2437MHz	Pass	AV	4.87728G	41.85	54.00	-12.15	3	Horizontal	18	1.03	-
2437MHz	Pass	PK	4.87672G	54.98	74.00	-19.02	3	Horizontal	18	1.03	-
2462MHz	Pass	AV	2.4672G	93.38	Inf	-Inf	3	Vertical	108	1.05	-
2462MHz	Pass	AV	2.4835G	50.13	54.00	-3.87	3	Vertical	108	1.05	-
2462MHz	Pass	PK	2.4668G	102.72	Inf	-Inf	3	Vertical	108	1.05	-
2462MHz	Pass	PK	2.4842G	63.05	74.00	-10.95	3	Vertical	108	1.05	-
2462MHz	Pass	AV	2.4672G	92.64	Inf	-Inf	3	Horizontal	65	1.00	-
2462MHz	Pass	AV	2.4835G	50.13	54.00	-3.87	3	Horizontal	65	1.00	-
2462MHz	Pass	PK	2.4666G	101.97	Inf	-Inf	3	Horizontal	65	1.00	-
2462MHz	Pass	PK	2.484G	62.13	74.00	-11.87	3	Horizontal	65	1.00	-
2462MHz	Pass	AV	4.92144G	43.66	54.00	-10.34	3	Vertical	192	1.26	-
2462MHz	Pass	PK	4.92168G	56.87	74.00	-17.13	3	Vertical	192	1.26	-
2462MHz	Pass	AV	4.92068G	41.15	54.00	-12.85	3	Horizontal	13	1.00	-
2462MHz	Pass	PK	4.92212G	54.45	74.00	-19.55	3	Horizontal	13	1.00	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.3888G	48.82	54.00	-5.18	3	Vertical	104	1.23	-
2422MHz	Pass	AV	2.434G	90.13	Inf	-Inf	3	Vertical	104	1.23	-
2422MHz	Pass	AV	2.4852G	48.09	54.00	-5.91	3	Vertical	104	1.23	-
2422MHz	Pass	PK	2.336G	60.05	74.00	-13.95	3	Vertical	104	1.23	-
2422MHz	Pass	PK	2.4348G	99.48	Inf	-Inf	3	Vertical	104	1.23	-
2422MHz	Pass	PK	2.4928G	59.78	74.00	-14.22	3	Vertical	104	1.23	-
2422MHz	Pass	AV	2.3892G	49.07	54.00	-4.93	3	Horizontal	34	1.18	-
2422MHz	Pass	AV	2.434G	89.62	Inf	-Inf	3	Horizontal	34	1.18	-
2422MHz	Pass	AV	2.4852G	48.09	54.00	-5.91	3	Horizontal	34	1.18	-
2422MHz	Pass	PK	2.3772G	61.19	74.00	-12.81	3	Horizontal	34	1.18	-
2422MHz	Pass	PK	2.432G	98.93	Inf	-Inf	3	Horizontal	34	1.18	-
2422MHz	Pass	PK	2.4835G	60.36	74.00	-13.64	3	Horizontal	34	1.18	-
2422MHz	Pass	AV	4.84392G	43.51	54.00	-10.49	3	Vertical	194	1.44	-
2422MHz	Pass	PK	4.84384G	54.39	74.00	-19.61	3	Vertical	194	1.44	-
2422MHz	Pass	AV	4.8438G	41.86	54.00	-12.14	3	Horizontal	20	1.11	-
2422MHz	Pass	PK	4.84392G	53.31	74.00	-20.69	3	Horizontal	20	1.11	-
2437MHz	Pass	AV	2.3898G	47.78	54.00	-6.22	3	Vertical	108	1.22	-
2437MHz	Pass	AV	2.449G	90.75	Inf	-Inf	3	Vertical	108	1.22	-
2437MHz	Pass	AV	2.4835G	49.89	54.00	-4.11	3	Vertical	108	1.22	-
2437MHz	Pass	PK	2.3698G	59.68	74.00	-14.32	3	Vertical	108	1.22	-
2437MHz	Pass	PK	2.4502G	100.05	Inf	-Inf	3	Vertical	108	1.22	-
2437MHz	Pass	PK	2.4835G	61.10	74.00	-12.90	3	Vertical	108	1.22	-
2437MHz	Pass	AV	2.347G	47.49	54.00	-6.51	3	Horizontal	33	1.06	-
2437MHz	Pass	AV	2.4262G	89.48	Inf	-Inf	3	Horizontal	33	1.06	-
2437MHz	Pass	AV	2.4835G	49.41	54.00	-4.59	3	Horizontal	33	1.06	-
2437MHz	Pass	PK	2.3486G	59.84	74.00	-14.16	3	Horizontal	33	1.06	-
2437MHz	Pass	PK	2.4258G	98.65	Inf	-Inf	3	Horizontal	33	1.06	-
2437MHz	Pass	PK	2.4835G	61.29	74.00	-12.71	3	Horizontal	33	1.06	-
2437MHz	Pass	AV	4.87396G	42.71	54.00	-11.29	3	Vertical	193	1.22	-
2437MHz	Pass	PK	4.87312G	53.92	74.00	-20.08	3	Vertical	193	1.22	-
2437MHz	Pass	AV	4.87396G	41.17	54.00	-12.83	3	Horizontal	12	1.11	-
2437MHz	Pass	PK	4.87392G	53.60	74.00	-20.40	3	Horizontal	12	1.11	-
2447MHz	Pass	AV	2.3478G	47.26	54.00	-6.74	3	Vertical	76	1.97	-
2447MHz	Pass	AV	2.459G	89.05	Inf	-Inf	3	Vertical	76	1.97	-
2447MHz	Pass	AV	2.4854G	51.76	54.00	-2.24	3	Vertical	76	1.97	-
2447MHz	Pass	PK	2.3654G	59.02	74.00	-14.98	3	Vertical	76	1.97	-
2447MHz	Pass	PK	2.4598G	98.44	Inf	-Inf	3	Vertical	76	1.97	-
2447MHz	Pass	PK	2.487G	63.76	74.00	-10.24	3	Vertical	76	1.97	-
2447MHz	Pass	AV	2.389G	47.26	54.00	-6.74	3	Horizontal	344	1.45	-
2447MHz	Pass	AV	2.4594G	91.48	Inf	-Inf	3	Horizontal	344	1.45	-
2447MHz	Pass	AV	2.485G	53.87	54.00	-0.13	3	Horizontal	344	1.45	-
2447MHz	Pass	PK	2.3702G	59.17	74.00	-14.83	3	Horizontal	344	1.45	-
2447MHz	Pass	PK	2.4598G	101.00	Inf	-Inf	3	Horizontal	344	1.45	-
2447MHz	Pass	PK	2.487G	66.10	74.00	-7.90	3	Horizontal	344	1.45	-
2452MHz	Pass	AV	2.3896G	46.97	54.00	-7.03	3	Vertical	74	1.24	-
2452MHz	Pass	AV	2.4628G	87.55	Inf	-Inf	3	Vertical	74	1.24	-
2452MHz	Pass	AV	2.4848G	51.56	54.00	-2.44	3	Vertical	74	1.24	-
2452MHz	Pass	PK	2.3892G	58.82	74.00	-15.18	3	Vertical	74	1.24	-
2452MHz	Pass	PK	2.4624G	96.95	Inf	-Inf	3	Vertical	74	1.24	-
2452MHz	Pass	PK	2.4856G	62.74	74.00	-11.26	3	Vertical	74	1.24	-
2452MHz	Pass	AV	2.3876G	47.24	54.00	-6.76	3	Horizontal	343	1.46	-
2452MHz	Pass	AV	2.464G	91.04	Inf	-Inf	3	Horizontal	343	1.46	-
2452MHz	Pass	AV	2.4848G	53.58	54.00	-0.42	3	Horizontal	343	1.46	-
2452MHz	Pass	PK	2.3692G	59.66	74.00	-14.34	3	Horizontal	343	1.46	-
2452MHz	Pass	PK	2.4624G	100.57	Inf	-Inf	3	Horizontal	343	1.46	-
2452MHz	Pass	PK	2.4868G	65.67	74.00	-8.33	3	Horizontal	343	1.46	-
2452MHz	Pass	AV	4.90384G	43.30	54.00	-10.70	3	Vertical	166	1.54	-
2452MHz	Pass	PK	4.90404G	54.93	74.00	-19.07	3	Vertical	166	1.54	-
2452MHz	Pass	AV	4.90384G	41.35	54.00	-12.65	3	Horizontal	45	2.69	-
2452MHz	Pass	PK	4.90388G	53.29	74.00	-20.71	3	Horizontal	45	2.69	-

802.11b_Nss1,(1Mbps)_1TX

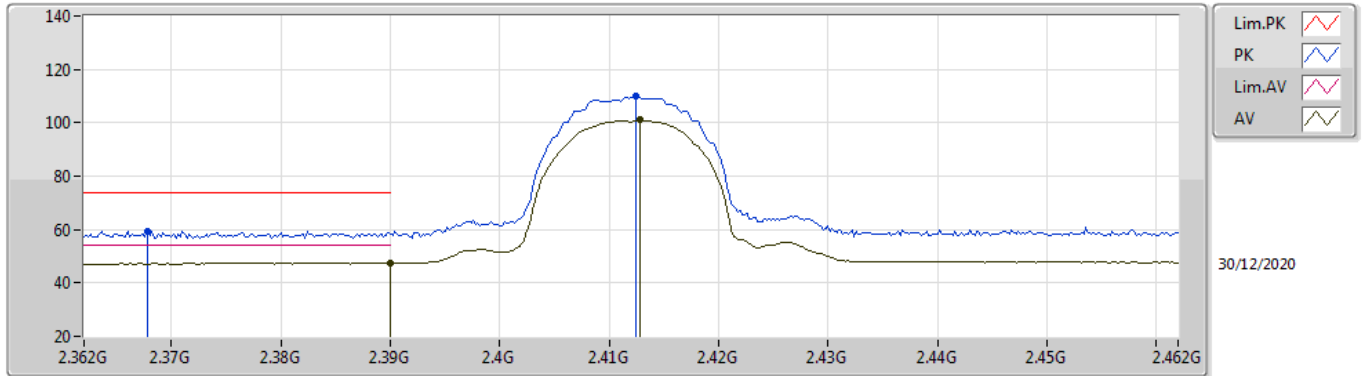
2412MHz_TX



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	47.27	54.00	-6.73	31.91	3	Vertical	78	1.41	-	15.36	27.62	4.29	-
AV	2.4128G	98.73	Inf	-Inf	31.88	3	Vertical	78	1.41	-	66.85	27.57	4.31	-
PK	2.3746G	59.46	74.00	-14.54	31.92	3	Vertical	78	1.41	-	27.54	27.65	4.27	-
PK	2.4124G	108.04	Inf	-Inf	31.89	3	Vertical	78	1.41	-	76.15	27.58	4.31	-

802.11b_Nss1,(1Mbps)_1TX

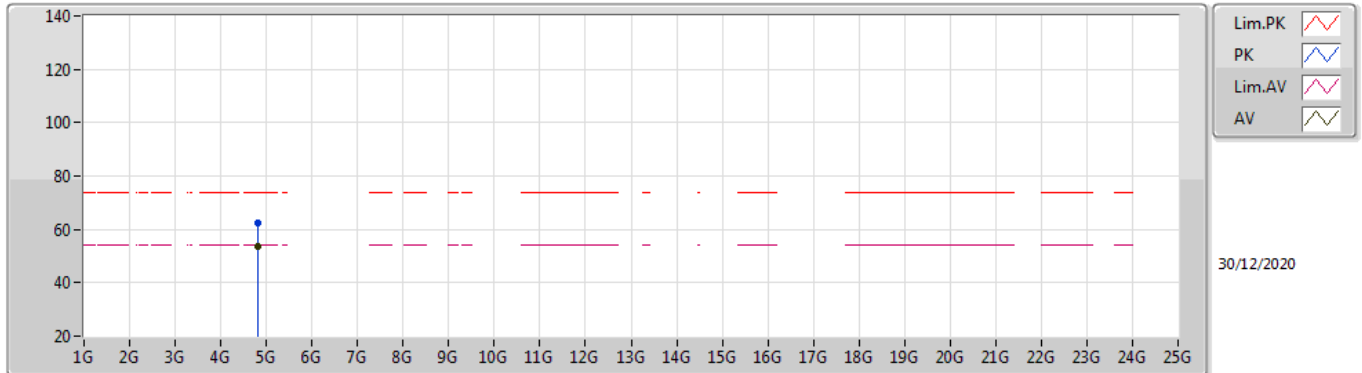
2412MHz_TX



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	47.27	54.00	-6.73	31.91	3	Horizontal	342	1.14	-	15.36	27.62	4.29	-
AV	2.4128G	100.98	Inf	-Inf	31.88	3	Horizontal	342	1.14	-	69.10	27.57	4.31	-
PK	2.3678G	59.52	74.00	-14.48	31.93	3	Horizontal	342	1.14	-	27.59	27.66	4.27	-
PK	2.4124G	110.09	Inf	-Inf	31.89	3	Horizontal	342	1.14	-	78.20	27.58	4.31	-

802.11b_Nss1,(1Mbps)_1TX

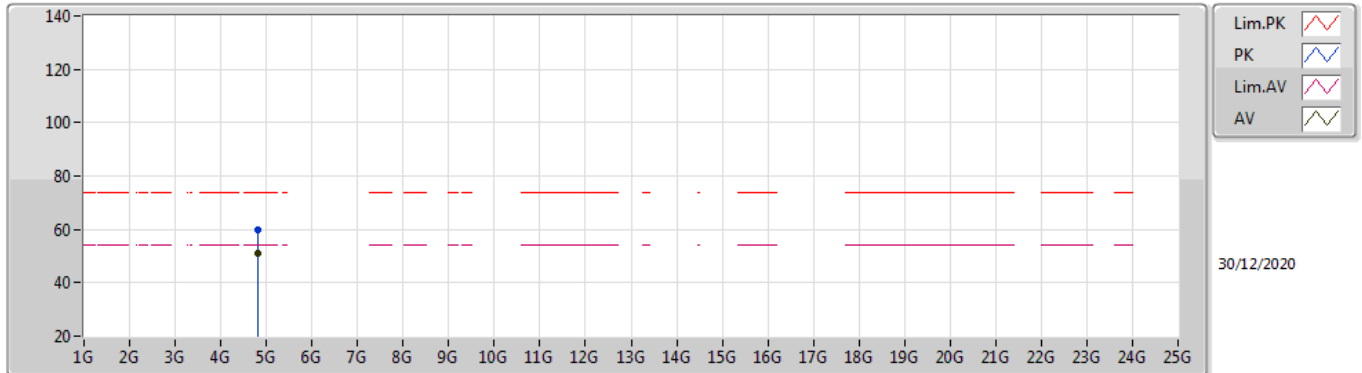
2412MHz_TX



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	4.82316G	53.84	54.00	-0.16	8.39	3	Vertical	178	1.62	-	45.45	31.10	6.52	29.23
PK	4.82408G	62.60	74.00	-11.40	8.39	3	Vertical	178	1.62	-	54.21	31.10	6.52	29.23

802.11b_Nss1,(1Mbps)_1TX

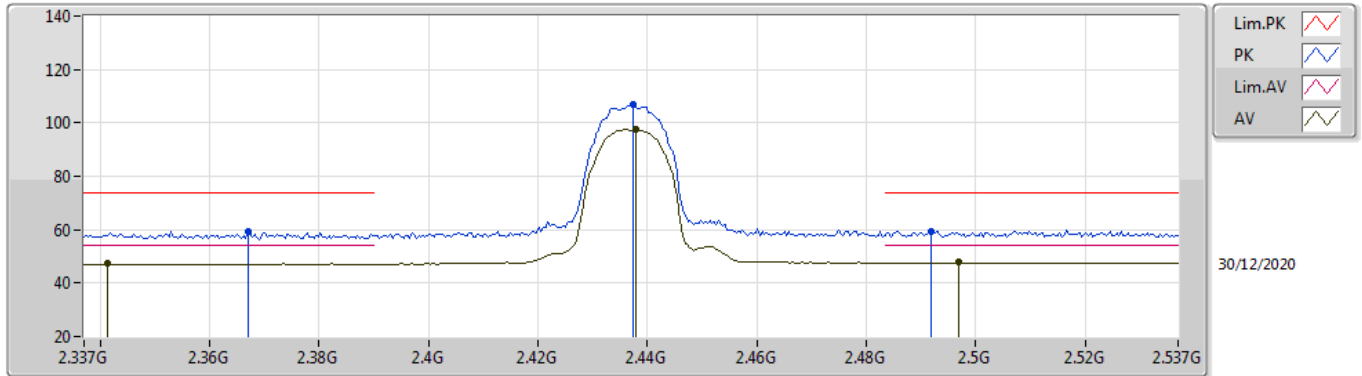
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82316G	50.89	54.00	-3.11	8.39	3	Horizontal	30	2.44	-	42.50	31.10	6.52	29.23
PK	4.82408G	59.78	74.00	-14.22	8.39	3	Horizontal	30	2.44	-	51.39	31.10	6.52	29.23

802.11b_Nss1,(1Mbps)_1TX

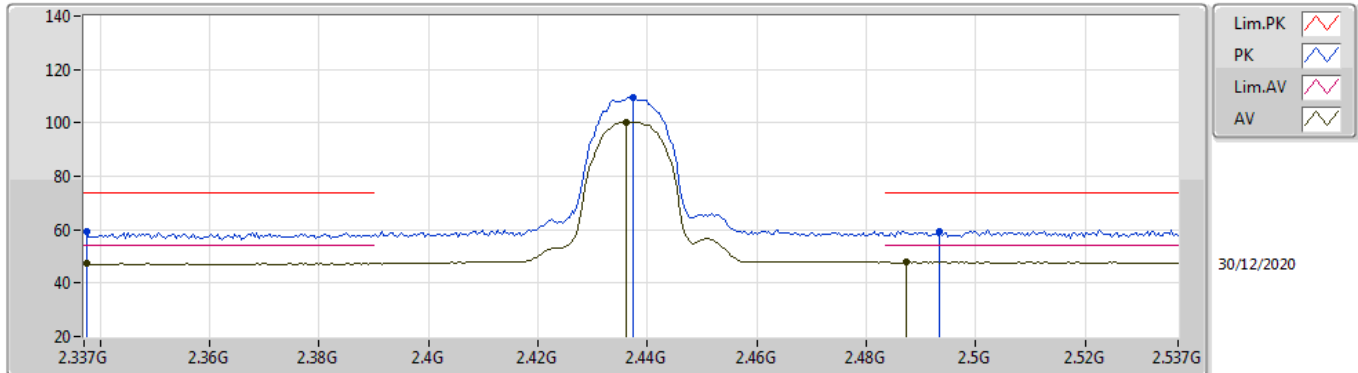
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3414G	47.32	54.00	-6.68	31.97	3	Vertical	74	1.65	-	15.35	27.73	4.24	-
AV	2.4378G	97.46	Inf	-Inf	31.86	3	Vertical	74	1.65	-	65.60	27.52	4.34	-
AV	2.497G	47.86	54.00	-6.14	31.81	3	Vertical	74	1.65	-	16.05	27.41	4.40	-
PK	2.367G	59.32	74.00	-14.68	31.94	3	Vertical	74	1.65	-	27.38	27.67	4.27	-
PK	2.4374G	106.67	Inf	-Inf	31.87	3	Vertical	74	1.65	-	74.80	27.53	4.34	-
PK	2.4918G	59.56	74.00	-14.44	31.81	3	Vertical	74	1.65	-	27.75	27.42	4.39	-

802.11b_Nss1,(1Mbps)_1TX

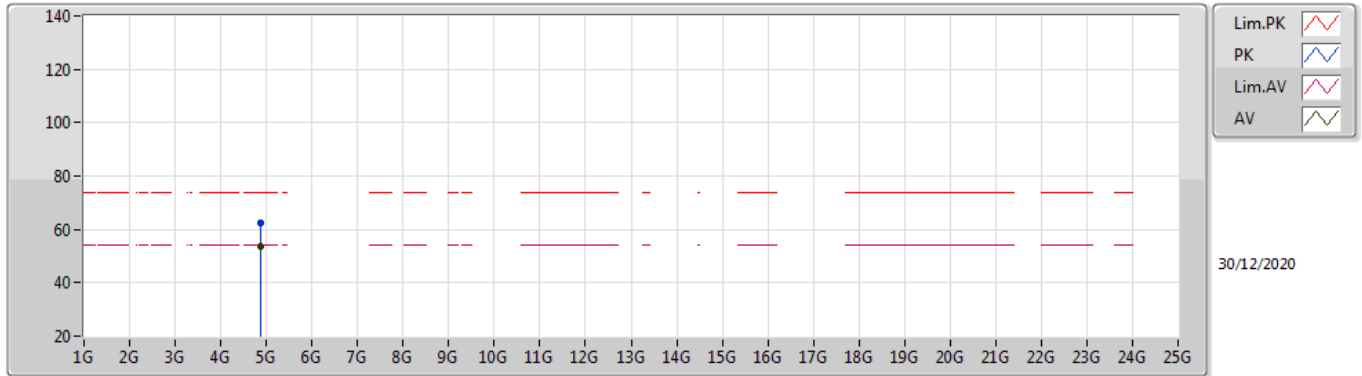
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3374G	47.37	54.00	-6.63	31.99	3	Horizontal	343	1.50	-	15.38	27.75	4.24	-
AV	2.4362G	100.37	Inf	-Inf	31.87	3	Horizontal	343	1.50	-	68.50	27.53	4.34	-
AV	2.4874G	47.86	54.00	-6.14	31.82	3	Horizontal	343	1.50	-	16.04	27.43	4.39	-
PK	2.3374G	59.45	74.00	-14.55	31.99	3	Horizontal	343	1.50	-	27.46	27.75	4.24	-
PK	2.4374G	109.50	Inf	-Inf	31.87	3	Horizontal	343	1.50	-	77.63	27.53	4.34	-
PK	2.4934G	59.33	74.00	-14.67	31.80	3	Horizontal	343	1.50	-	27.53	27.41	4.39	-

802.11b_Nss1,(1Mbps)_1TX

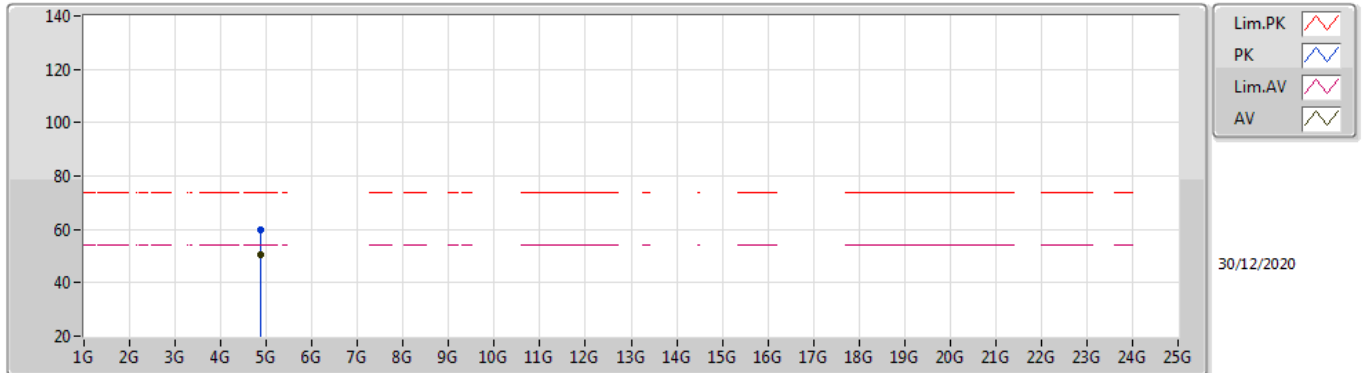
2437MHz_TX



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	4.87316G	53.50	54.00	-0.50	8.46	3	Vertical	166	1.57	-	45.04	31.10	6.57	29.21
PK	4.87408G	62.28	74.00	-11.72	8.46	3	Vertical	166	1.57	-	53.82	31.10	6.57	29.21

802.11b_Nss1,(1Mbps)_1TX

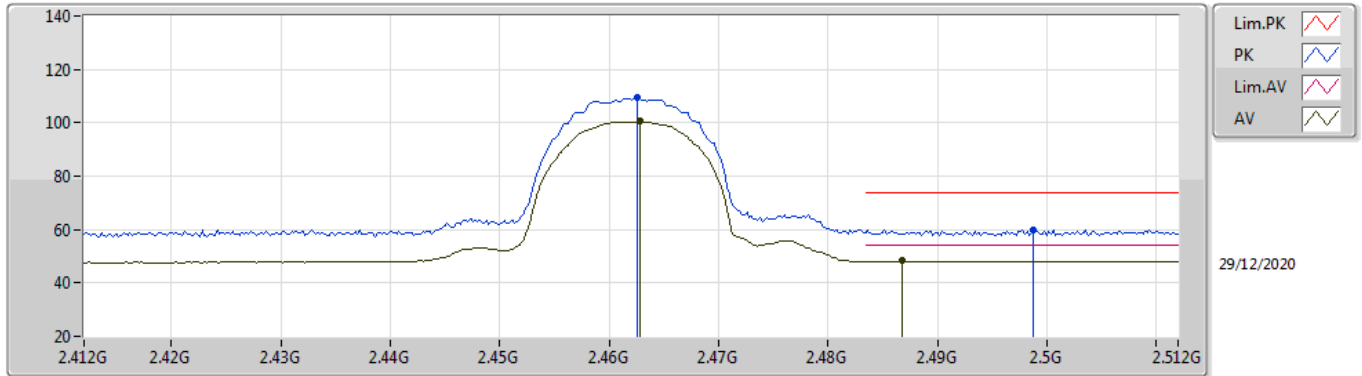
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8732G	50.67	54.00	-3.33	8.46	3	Horizontal	34	2.29	-	42.21	31.10	6.57	29.21
PK	4.87408G	59.60	74.00	-14.40	8.46	3	Horizontal	34	2.29	-	51.14	31.10	6.57	29.21

802.11b_Nss1,(1Mbps)_1TX

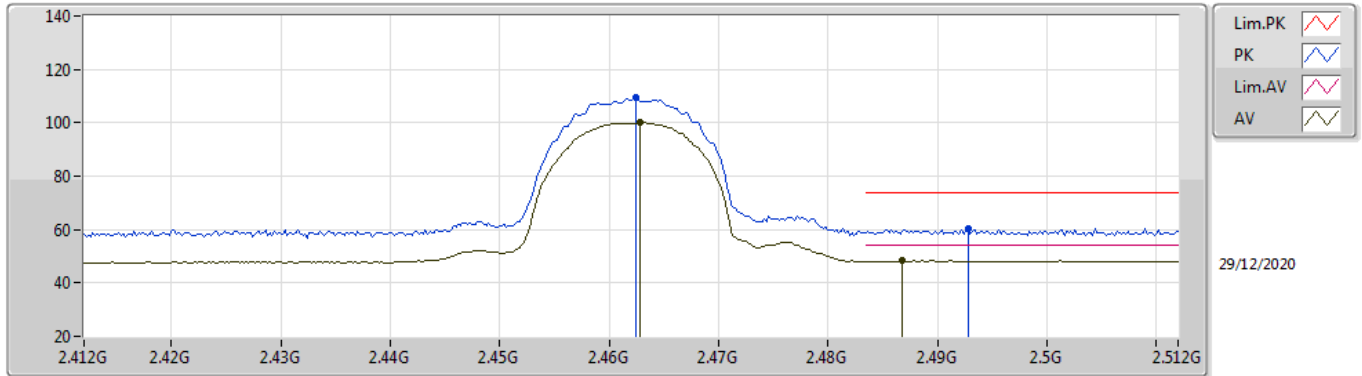
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4628G	100.47	Inf	-Inf	31.83	3	Vertical	109	1.00	-	68.64	27.47	4.36	-
AV	2.4868G	48.37	54.00	-5.63	31.82	3	Vertical	109	1.00	-	16.55	27.43	4.39	-
PK	2.4626G	109.57	Inf	-Inf	31.83	3	Vertical	109	1.00	-	77.74	27.47	4.36	-
PK	2.4988G	60.01	74.00	-13.99	31.80	3	Vertical	109	1.00	-	28.21	27.40	4.40	-

802.11b_Nss1,(1Mbps)_1TX

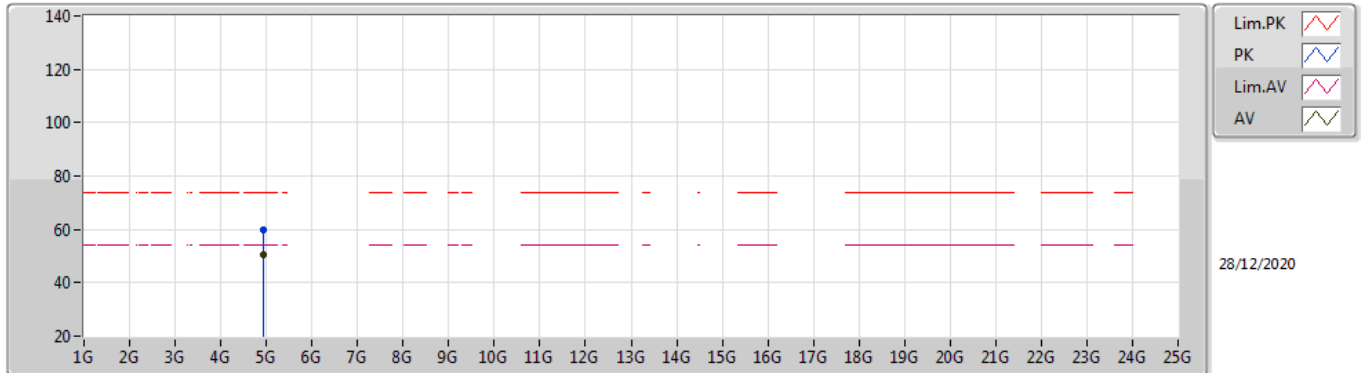
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4628G	100.09	Inf	-Inf	31.83	3	Horizontal	64	1.07	-	68.26	27.47	4.36	-
AV	2.4868G	48.37	54.00	-5.63	31.82	3	Horizontal	64	1.07	-	16.55	27.43	4.39	-
PK	2.4624G	109.29	Inf	-Inf	31.84	3	Horizontal	64	1.07	-	77.45	27.48	4.36	-
PK	2.4928G	60.43	74.00	-13.57	31.80	3	Horizontal	64	1.07	-	28.63	27.41	4.39	-

802.11b_Nss1,(1Mbps)_1TX

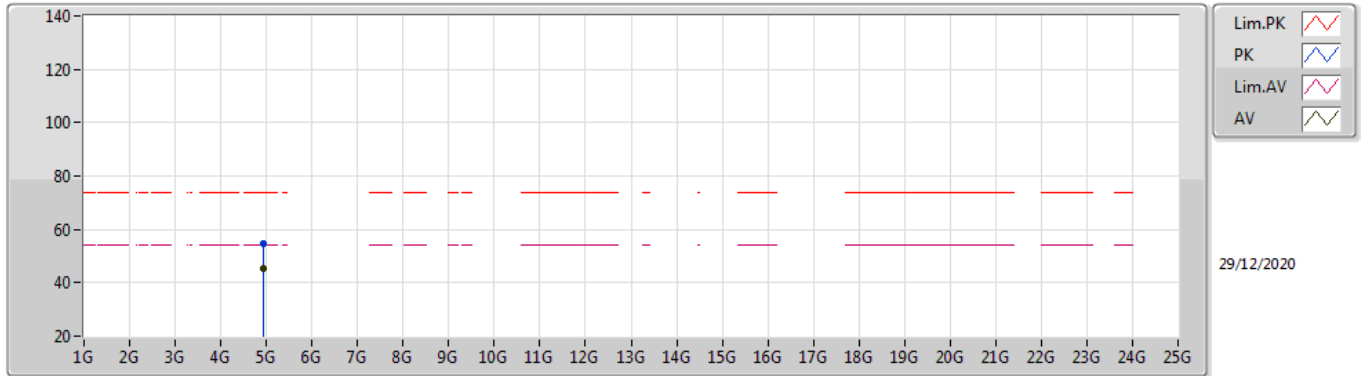
2462MHz_TX



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	4.92316G	50.52	54.00	-3.48	8.58	3	Vertical	192	1.43	-	41.94	31.15	6.62	29.19
PK	4.92408G	59.65	74.00	-14.35	8.58	3	Vertical	192	1.43	-	51.07	31.15	6.62	29.19

802.11b_Nss1,(1Mbps)_1TX

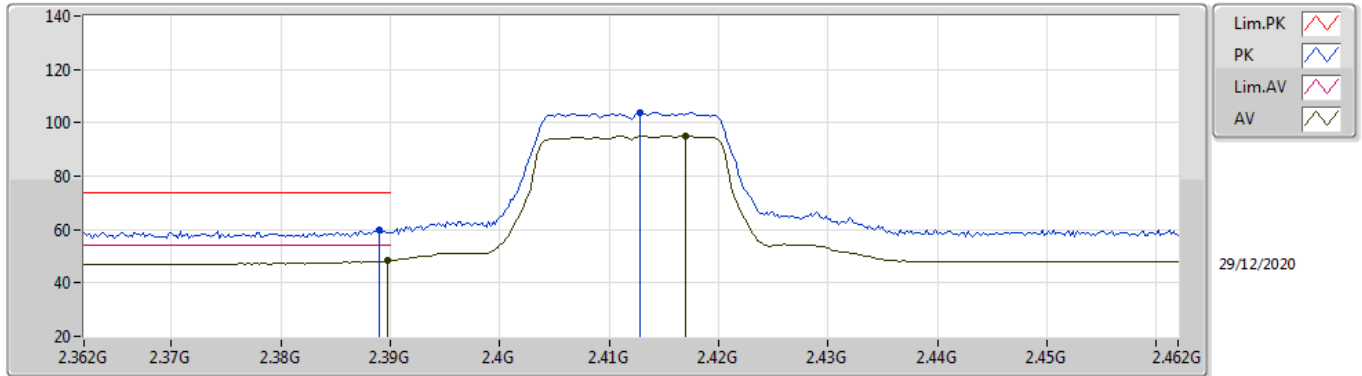
2462MHz_TX



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	4.92316G	45.40	54.00	-8.60	8.58	3	Horizontal	303	2.21	-	36.82	31.15	6.62	29.19
PK	4.92404G	54.90	74.00	-19.10	8.58	3	Horizontal	303	2.21	-	46.32	31.15	6.62	29.19

802.11g_Nss1,(6Mbps)_1TX

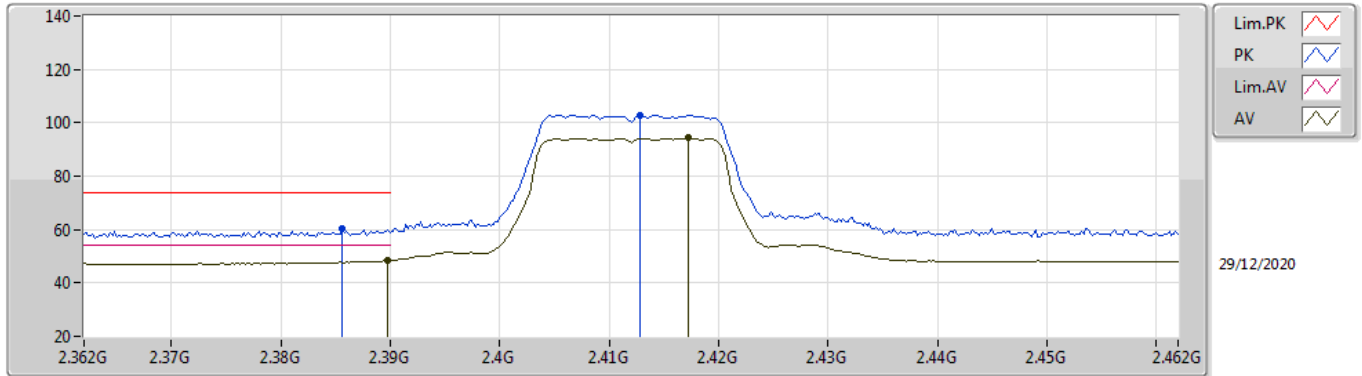
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	48.32	54.00	-5.68	31.91	3	Vertical	103	1.32	-	16.41	27.62	4.29	-
AV	2.417G	95.12	Inf	-Inf	31.89	3	Vertical	103	1.32	-	63.23	27.57	4.32	-
PK	2.389G	59.98	74.00	-14.02	31.91	3	Vertical	103	1.32	-	28.07	27.62	4.29	-
PK	2.4128G	103.91	Inf	-Inf	31.88	3	Vertical	103	1.32	-	72.03	27.57	4.31	-

802.11g_Nss1,(6Mbps)_1TX

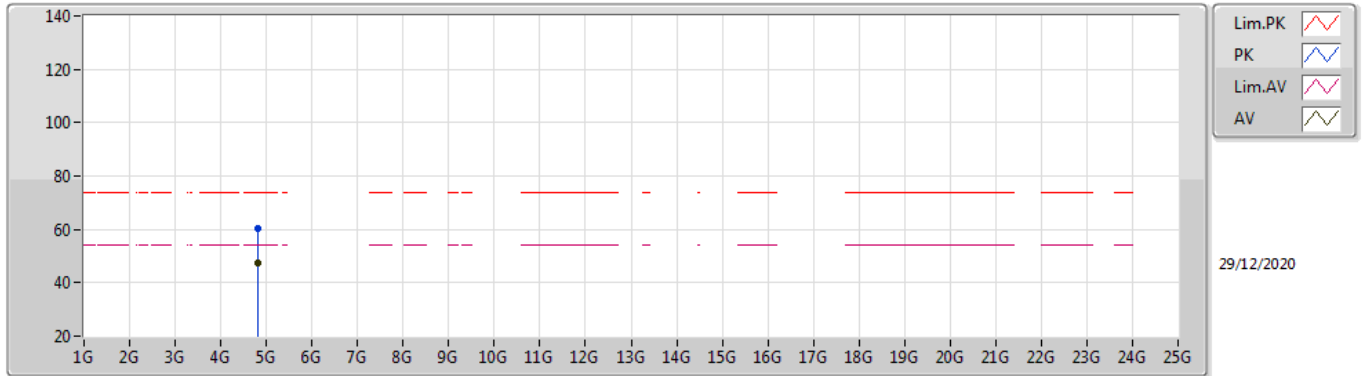
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	48.32	54.00	-5.68	31.91	3	Horizontal	63	1.09	-	16.41	27.62	4.29	-
AV	2.4172G	94.23	Inf	-Inf	31.89	3	Horizontal	63	1.09	-	62.34	27.57	4.32	-
PK	2.3856G	60.47	74.00	-13.53	31.92	3	Horizontal	63	1.09	-	28.55	27.63	4.29	-
PK	2.4128G	102.95	Inf	-Inf	31.88	3	Horizontal	63	1.09	-	71.07	27.57	4.31	-

802.11g_Nss1,(6Mbps)_1TX

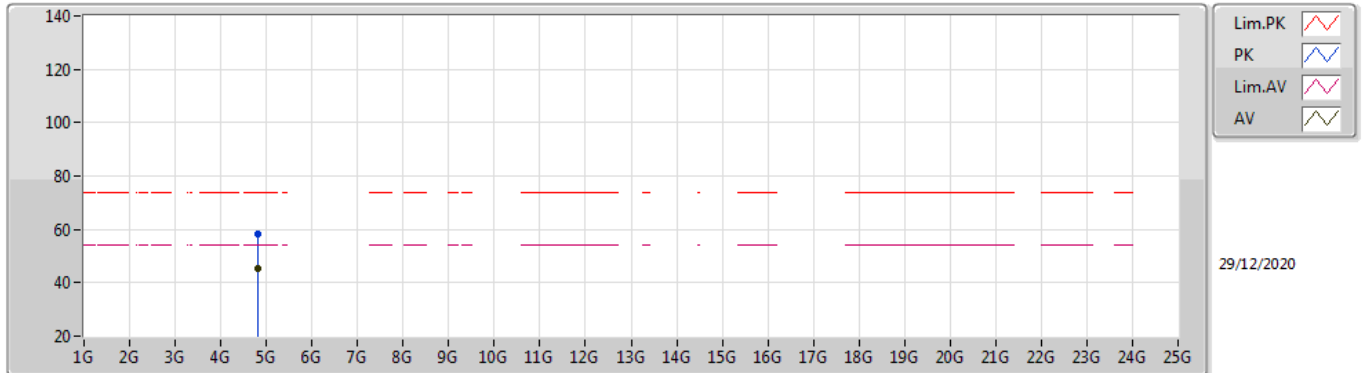
2412MHz_TX



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	4.82588G	47.50	54.00	-6.50	8.40	3	Vertical	188	1.50	-	39.10	31.10	6.53	29.23
PK	4.82472G	60.34	74.00	-13.66	8.39	3	Vertical	188	1.50	-	51.95	31.10	6.52	29.23

802.11g_Nss1,(6Mbps)_1TX

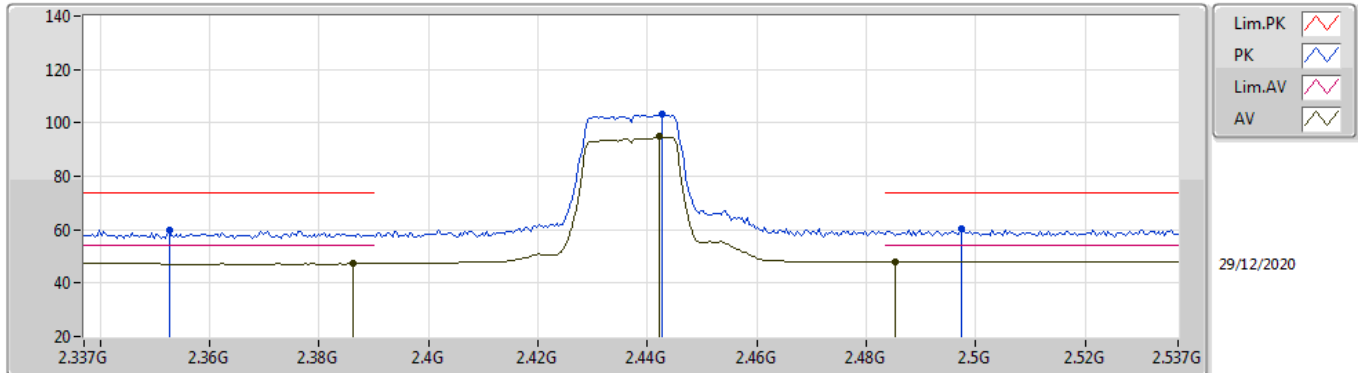
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82592G	45.50	54.00	-8.50	8.40	3	Horizontal	18	1.24	-	37.10	31.10	6.53	29.23
PK	4.82464G	58.17	74.00	-15.83	8.39	3	Horizontal	18	1.24	-	49.78	31.10	6.52	29.23

802.11g_Nss1,(6Mbps)_1TX

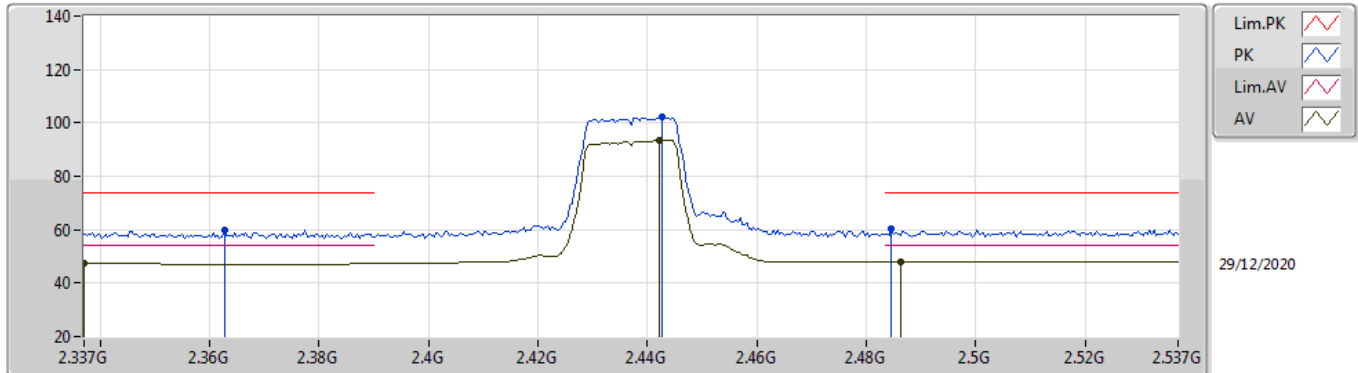
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3862G	47.46	54.00	-6.54	31.92	3	Vertical	107	1.10	-	15.54	27.63	4.29	-
AV	2.4422G	94.77	Inf	-Inf	31.86	3	Vertical	107	1.10	-	62.91	27.52	4.34	-
AV	2.4854G	48.09	54.00	-5.91	31.82	3	Vertical	107	1.10	-	16.27	27.43	4.39	-
PK	2.3526G	59.92	74.00	-14.08	31.94	3	Vertical	107	1.10	-	27.98	27.69	4.25	-
PK	2.4426G	103.33	Inf	-Inf	31.85	3	Vertical	107	1.10	-	71.48	27.51	4.34	-
PK	2.4974G	60.23	74.00	-13.77	31.81	3	Vertical	107	1.10	-	28.42	27.41	4.40	-

802.11g_Nss1,(6Mbps)_1TX

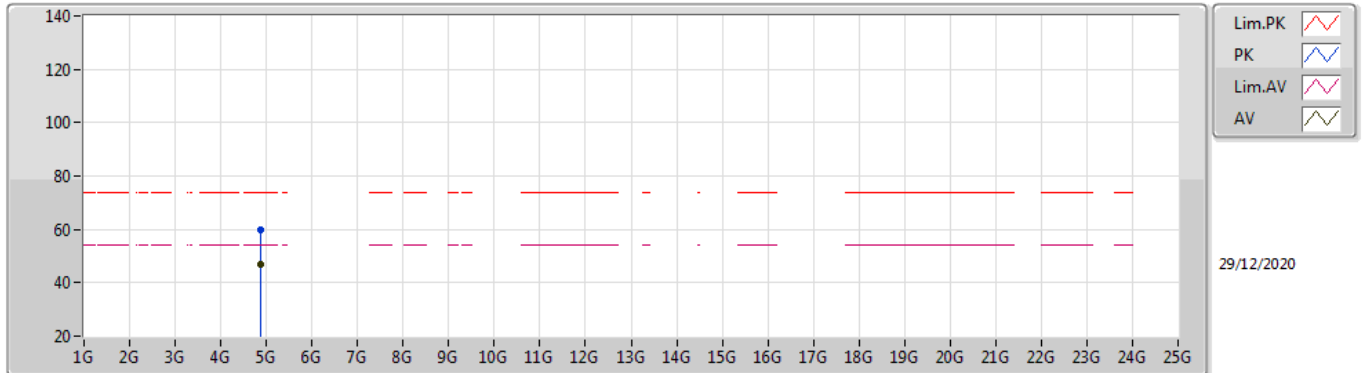
2437MHz_TX



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	2.337G	47.31	54.00	-6.69	31.99	3	Horizontal	32	1.43	-	15.32	27.75	4.24	-
AV	2.442G	93.62	Inf	-Inf	31.86	3	Horizontal	32	1.43	-	61.76	27.52	4.34	-
AV	2.486G	48.09	54.00	-5.91	31.82	3	Horizontal	32	1.43	-	16.27	27.43	4.39	-
PK	2.362G	59.93	74.00	-14.07	31.93	3	Horizontal	32	1.43	-	28.00	27.67	4.26	-
PK	2.442G	102.13	Inf	-Inf	31.85	3	Horizontal	32	1.43	-	70.28	27.51	4.34	-
PK	2.486G	60.15	74.00	-13.85	31.81	3	Horizontal	32	1.43	-	28.34	27.43	4.38	-

802.11g_Nss1,(6Mbps)_1TX

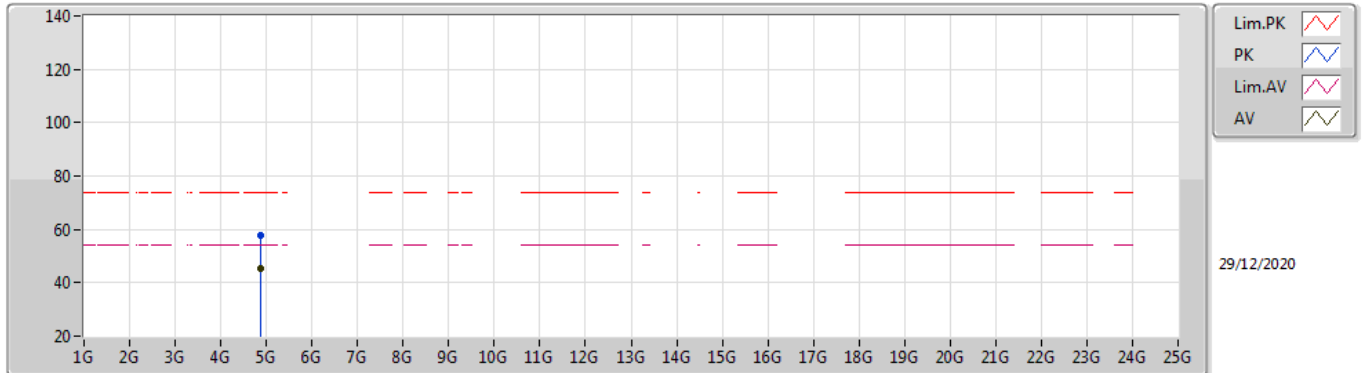
2437MHz_TX



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	4.87596G	47.15	54.00	-6.85	8.47	3	Vertical	192	1.21	-	38.68	31.10	6.58	29.21
PK	4.87472G	59.74	74.00	-14.26	8.46	3	Vertical	192	1.21	-	51.28	31.10	6.57	29.21

802.11g_Nss1,(6Mbps)_1TX

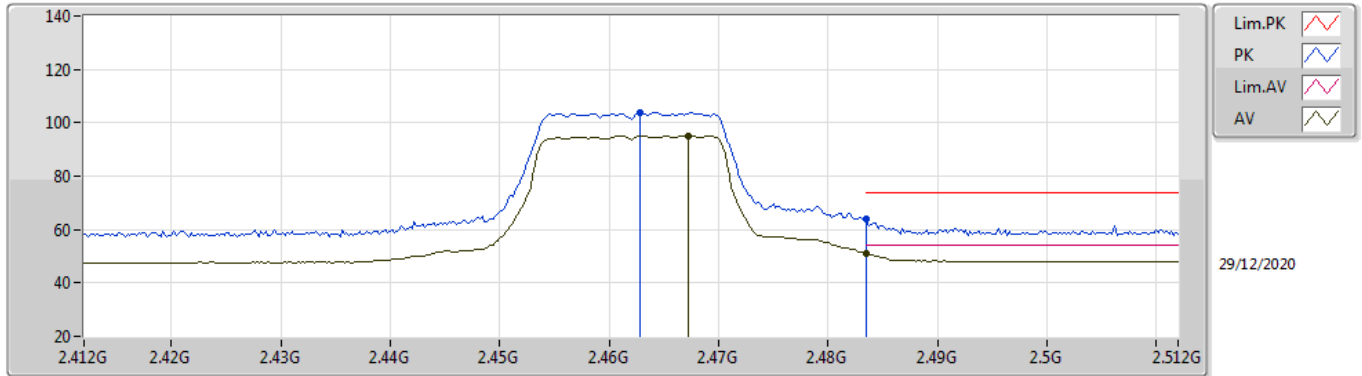
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.876G	45.46	54.00	-8.54	8.47	3	Horizontal	11	1.02	-	36.99	31.10	6.58	29.21
PK	4.87416G	57.96	74.00	-16.04	8.46	3	Horizontal	11	1.02	-	49.50	31.10	6.57	29.21

802.11g_Nss1,(6Mbps)_1TX

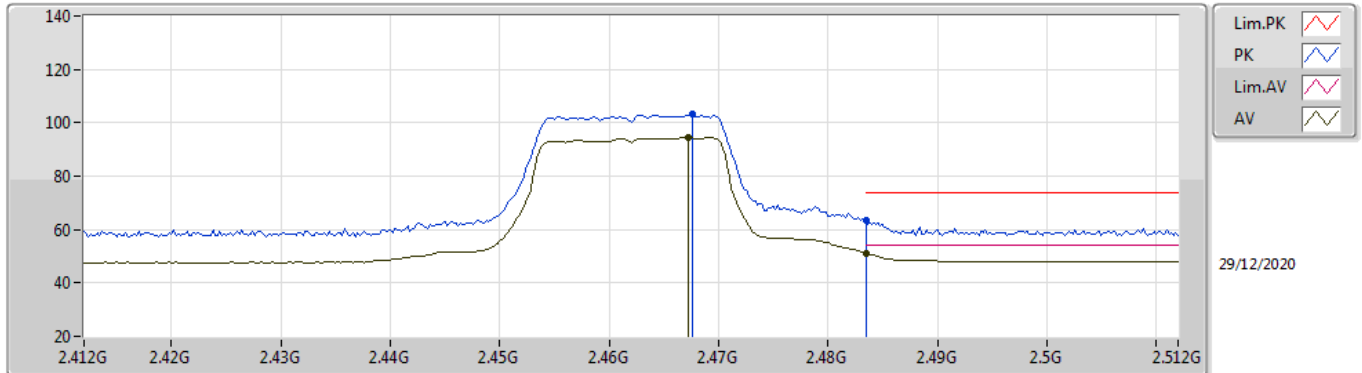
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4672G	95.17	Inf	-Inf	31.84	3	Vertical	108	1.06	-	63.33	27.47	4.37	-
AV	2.4835G	50.99	54.00	-3.01	31.81	3	Vertical	108	1.06	-	19.18	27.43	4.38	-
PK	2.4628G	103.97	Inf	-Inf	31.83	3	Vertical	108	1.06	-	72.14	27.47	4.36	-
PK	2.4835G	63.98	74.00	-10.02	31.81	3	Vertical	108	1.06	-	32.17	27.43	4.38	-

802.11g_Nss1,(6Mbps)_1TX

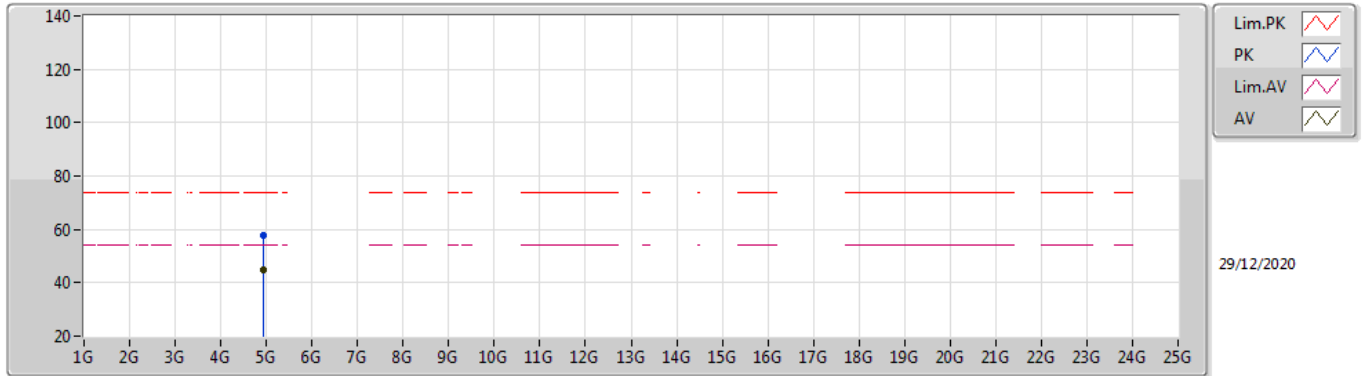
2462MHz_TX



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	2.4672G	94.51	Inf	-Inf	31.84	3	Horizontal	65	1.00	-	62.67	27.47	4.37	-
AV	2.4835G	50.99	54.00	-3.01	31.81	3	Horizontal	65	1.00	-	19.18	27.43	4.38	-
PK	2.4676G	103.03	Inf	-Inf	31.83	3	Horizontal	65	1.00	-	71.20	27.46	4.37	-
PK	2.4835G	63.30	74.00	-10.70	31.81	3	Horizontal	65	1.00	-	31.49	27.43	4.38	-

802.11g_Nss1,(6Mbps)_1TX

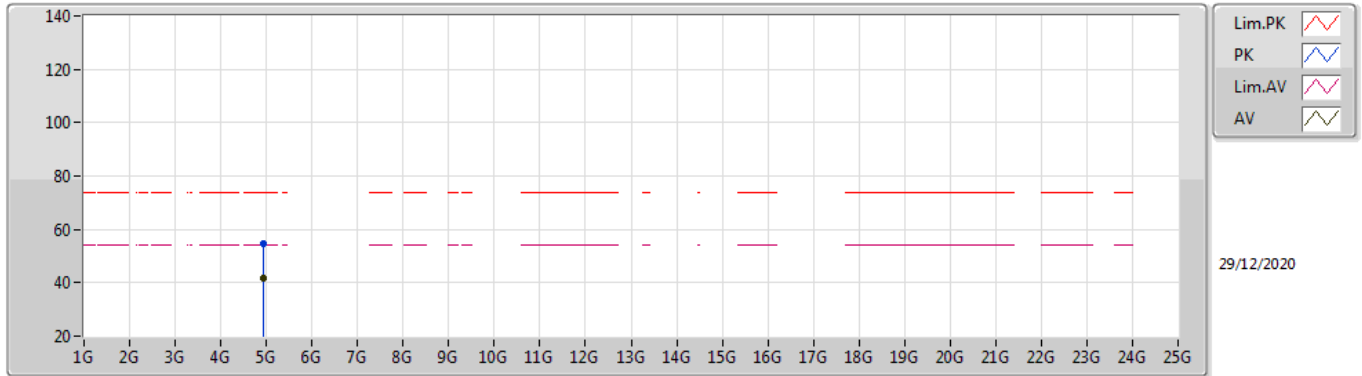
2462MHz_TX



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	4.92592G	44.69	54.00	-9.31	8.59	3	Vertical	192	1.27	-	36.10	31.15	6.63	29.19
PK	4.9246G	57.99	74.00	-16.01	8.58	3	Vertical	192	1.27	-	49.41	31.15	6.62	29.19

802.11g_Nss1,(6Mbps)_1TX

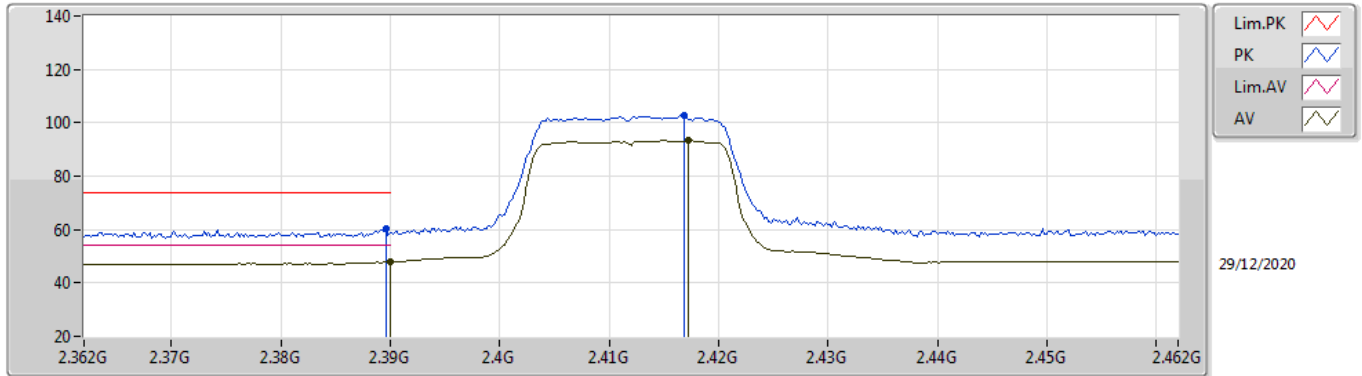
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.922G	41.87	54.00	-12.13	8.57	3	Horizontal	304	2.31	-	33.30	31.14	6.62	29.19
PK	4.92476G	54.67	74.00	-19.33	8.58	3	Horizontal	304	2.31	-	46.09	31.15	6.62	29.19

802.11n HT20_Nss1,(MCS0)_1TX

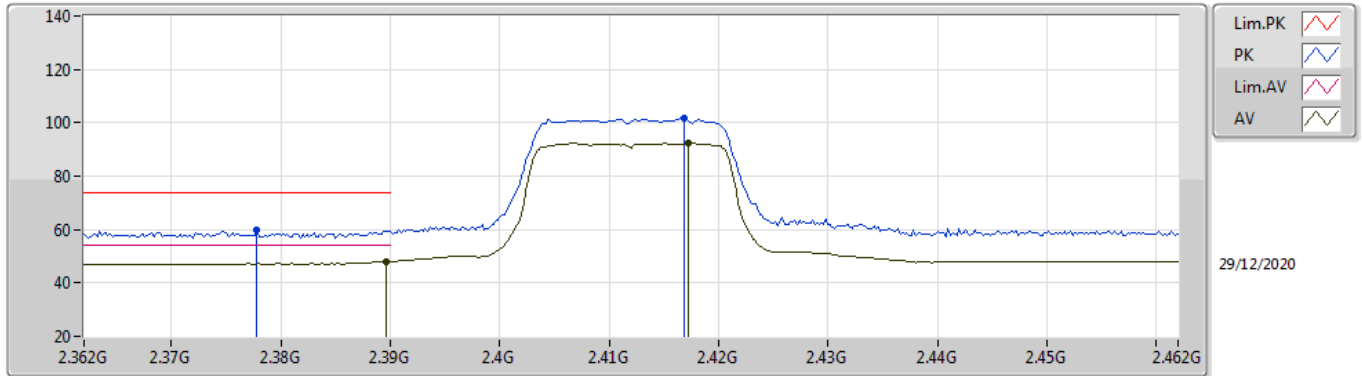
2412MHz_TX



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	47.78	54.00	-6.22	31.91	3	Vertical	103	1.30	-	15.87	27.62	4.29	-
AV	2.4172G	93.37	Inf	-Inf	31.89	3	Vertical	103	1.30	-	61.48	27.57	4.32	-
PK	2.3896G	60.19	74.00	-13.81	31.91	3	Vertical	103	1.30	-	28.28	27.62	4.29	-
PK	2.4168G	102.79	Inf	-Inf	31.89	3	Vertical	103	1.30	-	70.90	27.57	4.32	-

802.11n HT20_Nss1,(MCS0)_1TX

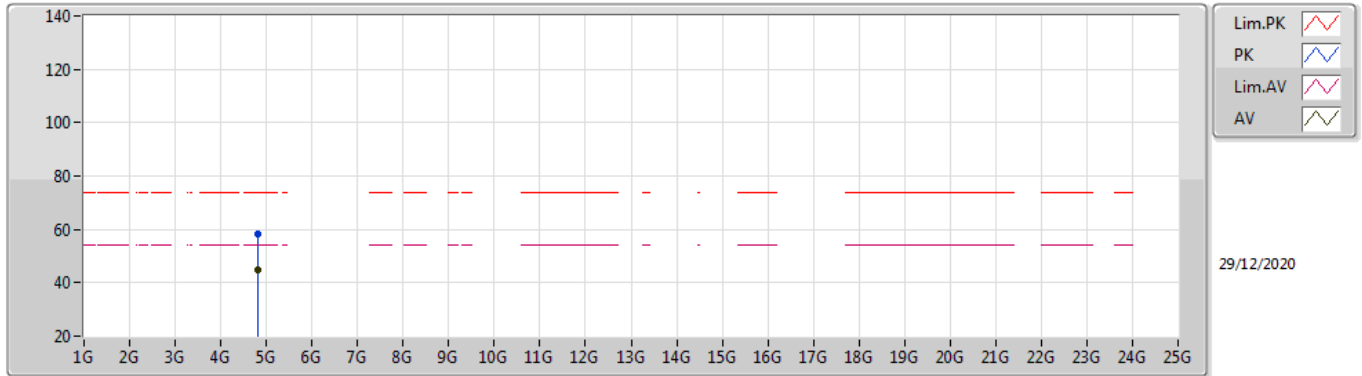
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3896G	48.05	54.00	-5.95	31.91	3	Horizontal	64	1.09	-	16.14	27.62	4.29	-
AV	2.4172G	92.45	Inf	-Inf	31.89	3	Horizontal	64	1.09	-	60.56	27.57	4.32	-
PK	2.3778G	59.98	74.00	-14.02	31.92	3	Horizontal	64	1.09	-	28.06	27.64	4.28	-
PK	2.4168G	101.83	Inf	-Inf	31.89	3	Horizontal	64	1.09	-	69.94	27.57	4.32	-

802.11n HT20_Nss1,(MCS0)_1TX

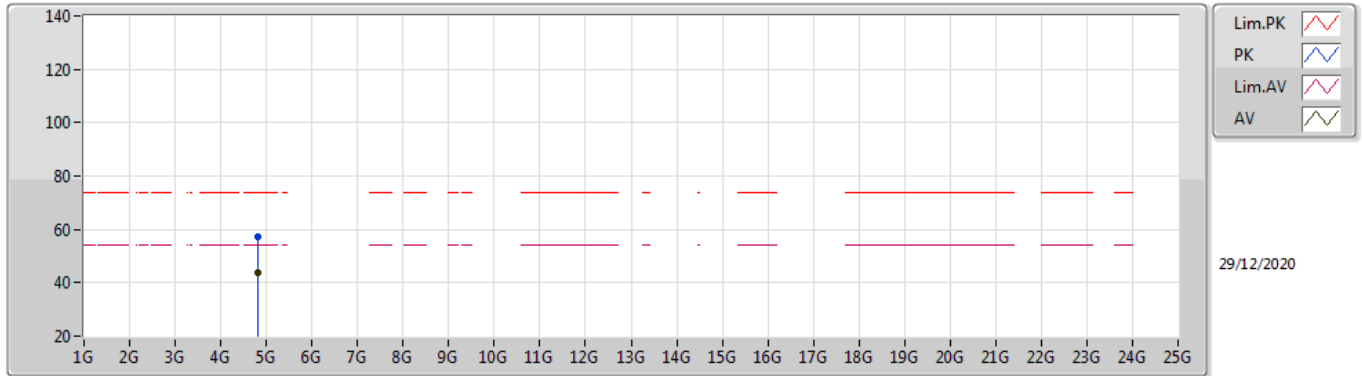
2412MHz_TX



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	4.82104G	45.07	54.00	-8.93	8.39	3	Vertical	222	1.47	-	36.68	31.10	6.52	29.23
PK	4.82G	58.27	74.00	-15.73	8.39	3	Vertical	222	1.47	-	49.88	31.10	6.52	29.23

802.11n HT20_Nss1,(MCS0)_1TX

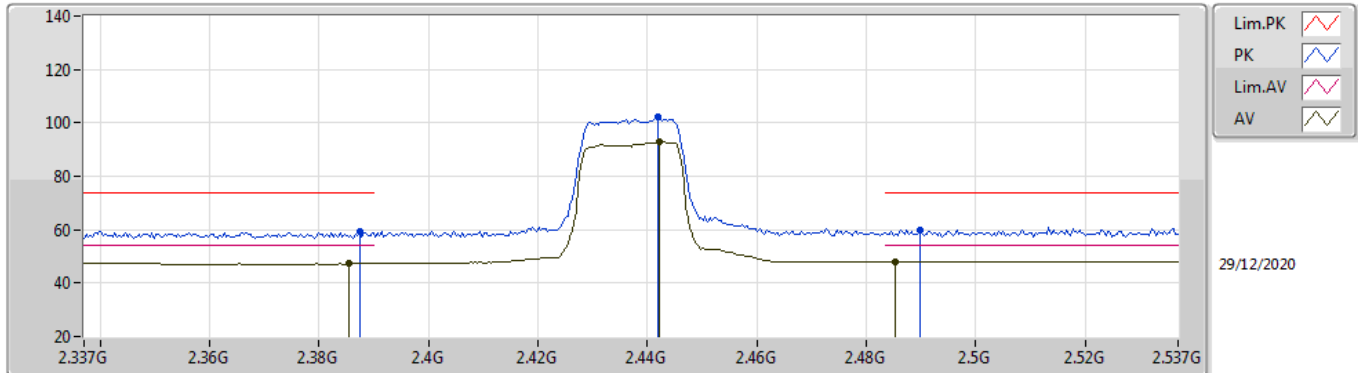
2412MHz_TX



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	4.82712G	43.76	54.00	-10.24	8.40	3	Horizontal	19	1.00	-	35.36	31.10	6.53	29.23
PK	4.82668G	57.18	74.00	-16.82	8.40	3	Horizontal	19	1.00	-	48.78	31.10	6.53	29.23

802.11n HT20_Nss1,(MCS0)_1TX

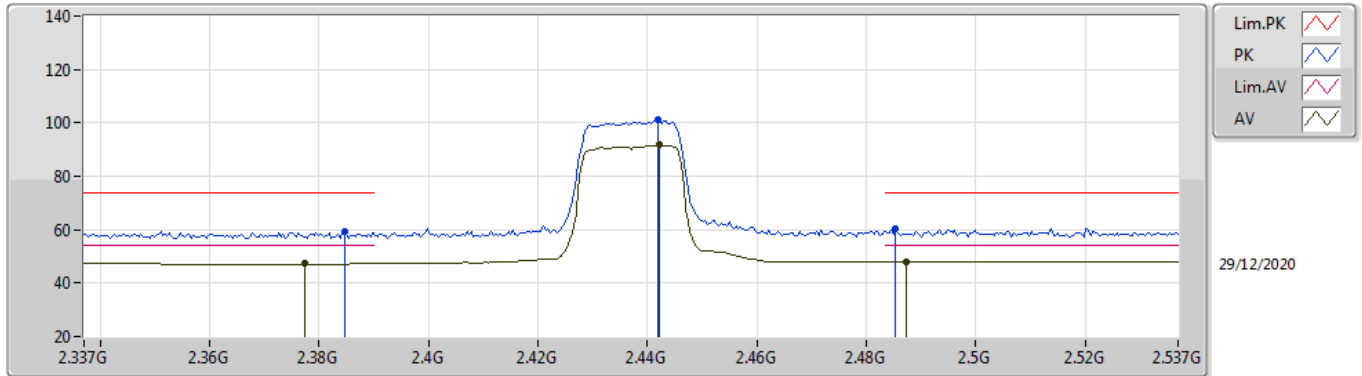
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3854G	47.45	54.00	-6.55	31.92	3	Vertical	107	1.11	-	15.53	27.63	4.29	-
AV	2.4422G	92.96	Inf	-Inf	31.86	3	Vertical	107	1.11	-	61.10	27.52	4.34	-
AV	2.4854G	48.09	54.00	-5.91	31.82	3	Vertical	107	1.11	-	16.27	27.43	4.39	-
PK	2.3874G	59.26	74.00	-14.74	31.92	3	Vertical	107	1.11	-	27.34	27.63	4.29	-
PK	2.4418G	102.18	Inf	-Inf	31.86	3	Vertical	107	1.11	-	70.32	27.52	4.34	-
PK	2.4898G	59.94	74.00	-14.06	31.81	3	Vertical	107	1.11	-	28.13	27.42	4.39	-

802.11n HT20_Nss1,(MCS0)_1TX

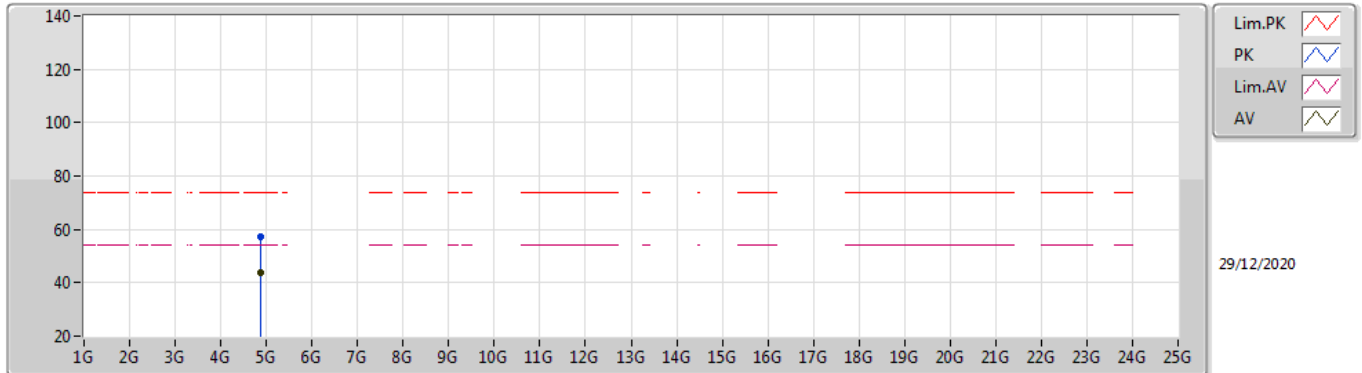
2437MHz_TX



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	2.3774G	47.42	54.00	-6.58	31.93	3	Horizontal	33	1.42	-	15.49	27.65	4.28	-
AV	2.4422G	91.83	Inf	-Inf	31.86	3	Horizontal	33	1.42	-	59.97	27.52	4.34	-
AV	2.4874G	48.09	54.00	-5.91	31.82	3	Horizontal	33	1.42	-	16.27	27.43	4.39	-
PK	2.3846G	59.14	74.00	-14.86	31.91	3	Horizontal	33	1.42	-	27.23	27.63	4.28	-
PK	2.4418G	101.05	Inf	-Inf	31.86	3	Horizontal	33	1.42	-	69.19	27.52	4.34	-
PK	2.4854G	60.51	74.00	-13.49	31.82	3	Horizontal	33	1.42	-	28.69	27.43	4.39	-

802.11n HT20_Nss1,(MCS0)_1TX

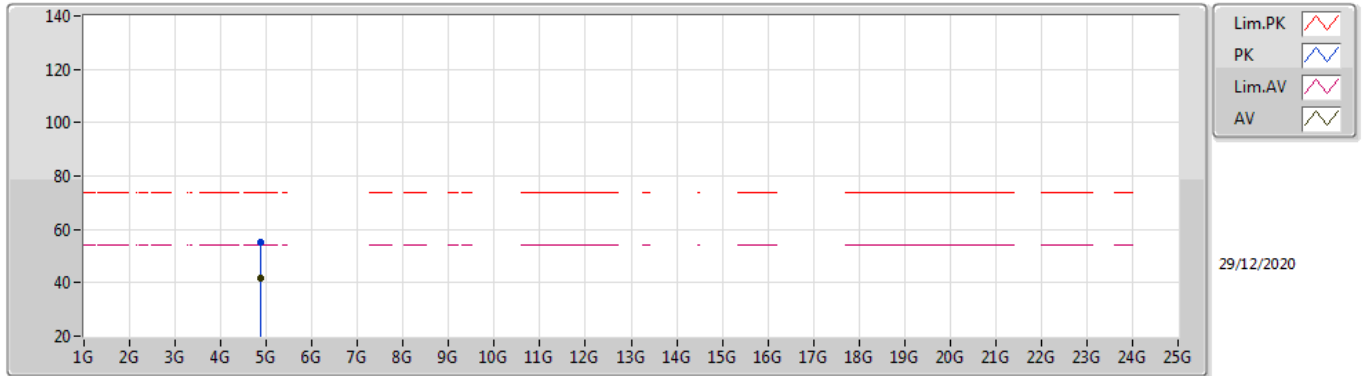
2437MHz_TX



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	4.87104G	43.82	54.00	-10.18	8.46	3	Vertical	193	1.21	-	35.36	31.10	6.57	29.21
PK	4.8766G	57.28	74.00	-16.72	8.47	3	Vertical	193	1.21	-	48.81	31.10	6.58	29.21

802.11n HT20_Nss1,(MCS0)_1TX

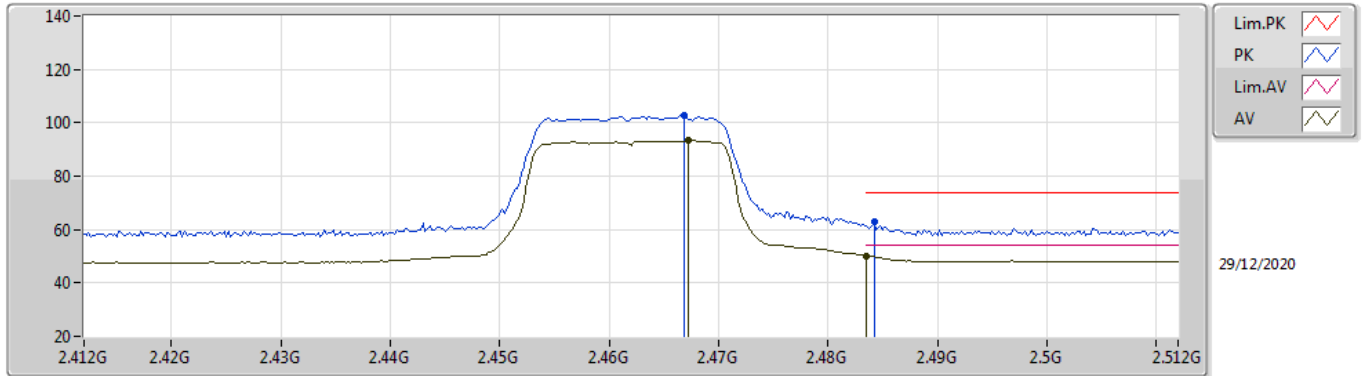
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87728G	41.85	54.00	-12.15	8.47	3	Horizontal	18	1.03	-	33.38	31.10	6.58	29.21
PK	4.87672G	54.98	74.00	-19.02	8.47	3	Horizontal	18	1.03	-	46.51	31.10	6.58	29.21

802.11n HT20_Nss1,(MCS0)_1TX

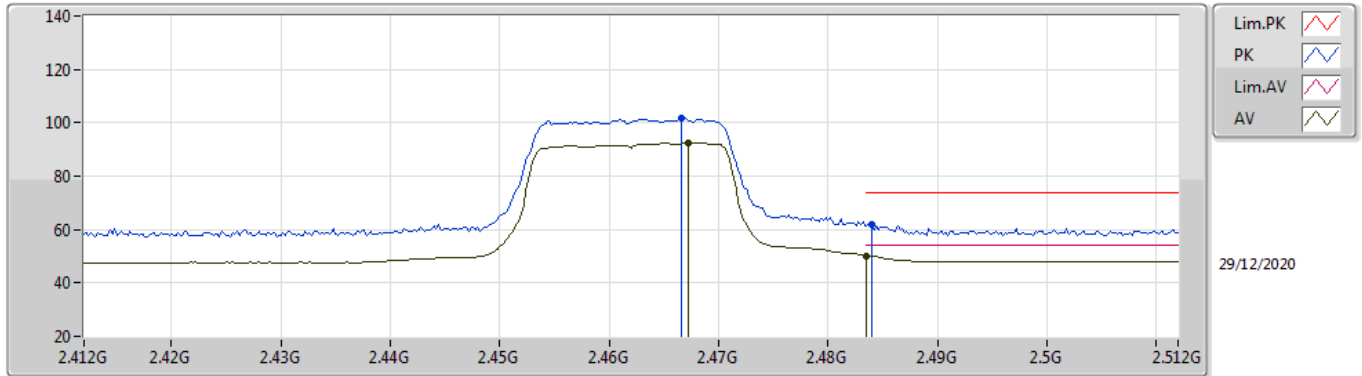
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4672G	93.38	Inf	-Inf	31.84	3	Vertical	108	1.05	-	61.54	27.47	4.37	-
AV	2.4835G	50.13	54.00	-3.87	31.81	3	Vertical	108	1.05	-	18.32	27.43	4.38	-
PK	2.4668G	102.72	Inf	-Inf	31.84	3	Vertical	108	1.05	-	70.88	27.47	4.37	-
PK	2.4842G	63.05	74.00	-10.95	31.81	3	Vertical	108	1.05	-	31.24	27.43	4.38	-

802.11n HT20_Nss1,(MCS0)_1TX

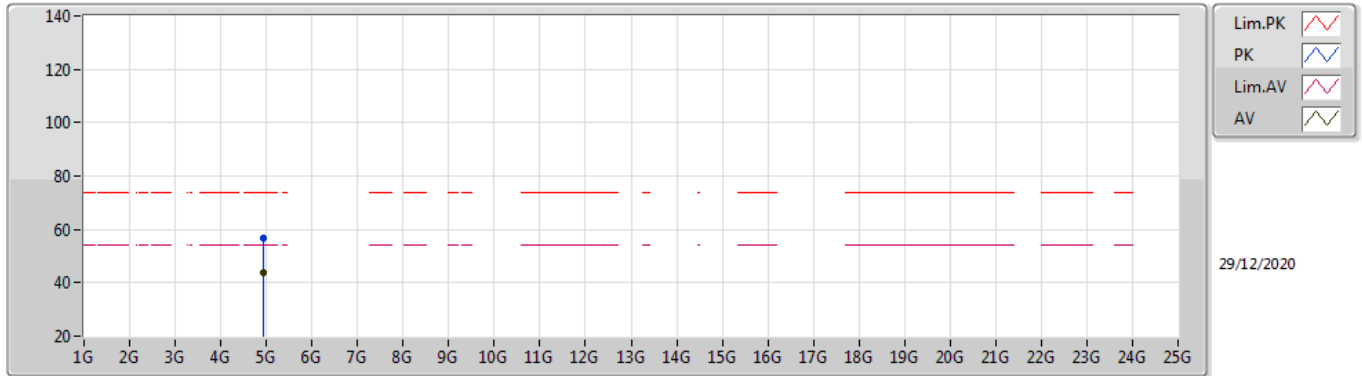
2462MHz_TX



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	2.4672G	92.64	Inf	-Inf	31.84	3	Horizontal	65	1.00	-	60.80	27.47	4.37	-
AV	2.4835G	50.13	54.00	-3.87	31.81	3	Horizontal	65	1.00	-	18.32	27.43	4.38	-
PK	2.4666G	101.97	Inf	-Inf	31.84	3	Horizontal	65	1.00	-	70.13	27.47	4.37	-
PK	2.484G	62.13	74.00	-11.87	31.81	3	Horizontal	65	1.00	-	30.32	27.43	4.38	-

802.11n HT20_Nss1,(MCS0)_1TX

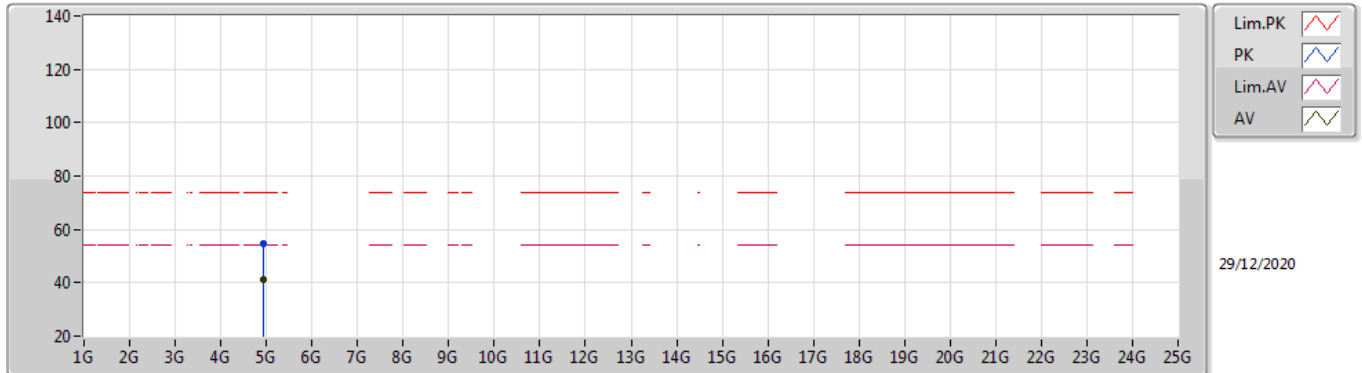
2462MHz_TX



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	4.92144G	43.66	54.00	-10.34	8.56	3	Vertical	192	1.26	-	35.10	31.14	6.62	29.20
PK	4.92168G	56.87	74.00	-17.13	8.56	3	Vertical	192	1.26	-	48.31	31.14	6.62	29.20

802.11n HT20_Nss1,(MCS0)_1TX

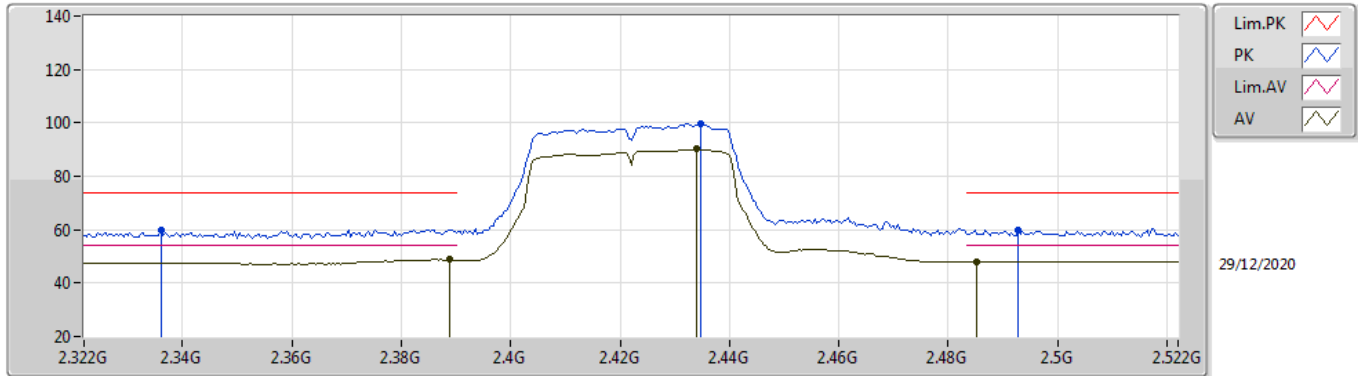
2462MHz_TX



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	4.92068G	41.15	54.00	-12.85	8.56	3	Horizontal	13	1.00	-	32.59	31.14	6.62	29.20
PK	4.92212G	54.45	74.00	-19.55	8.57	3	Horizontal	13	1.00	-	45.88	31.14	6.62	29.19

802.11n HT40_Nss1,(MCS0)_1TX

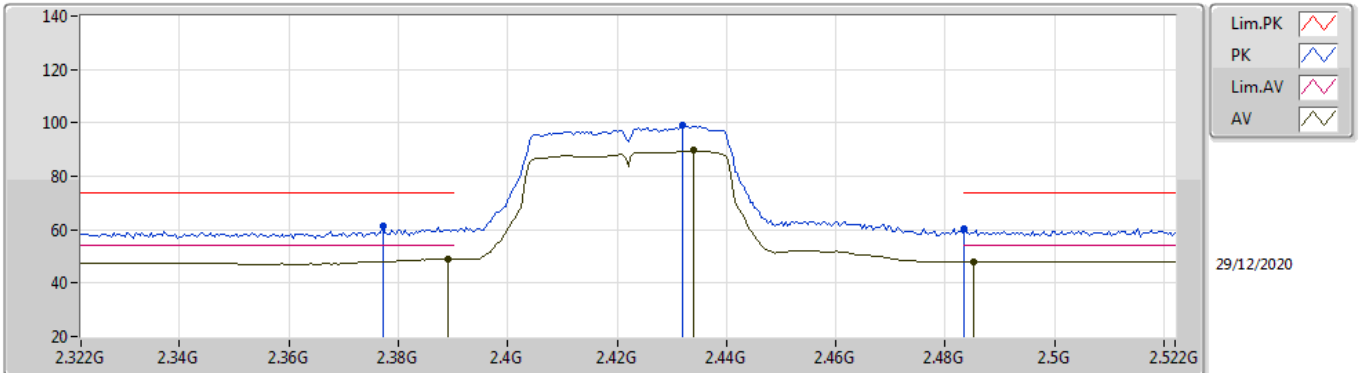
2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3888G	48.82	54.00	-5.18	31.91	3	Vertical	104	1.23	-	16.91	27.62	4.29	-
AV	2.434G	90.13	Inf	-Inf	31.86	3	Vertical	104	1.23	-	58.27	27.53	4.33	-
AV	2.4852G	48.09	54.00	-5.91	31.82	3	Vertical	104	1.23	-	16.27	27.43	4.39	-
PK	2.336G	60.05	74.00	-13.95	32.00	3	Vertical	104	1.23	-	28.05	27.76	4.24	-
PK	2.4348G	99.48	Inf	-Inf	31.86	3	Vertical	104	1.23	-	67.62	27.53	4.33	-
PK	2.4928G	59.78	74.00	-14.22	31.80	3	Vertical	104	1.23	-	27.98	27.41	4.39	-

802.11n HT40_Nss1,(MCS0)_1TX

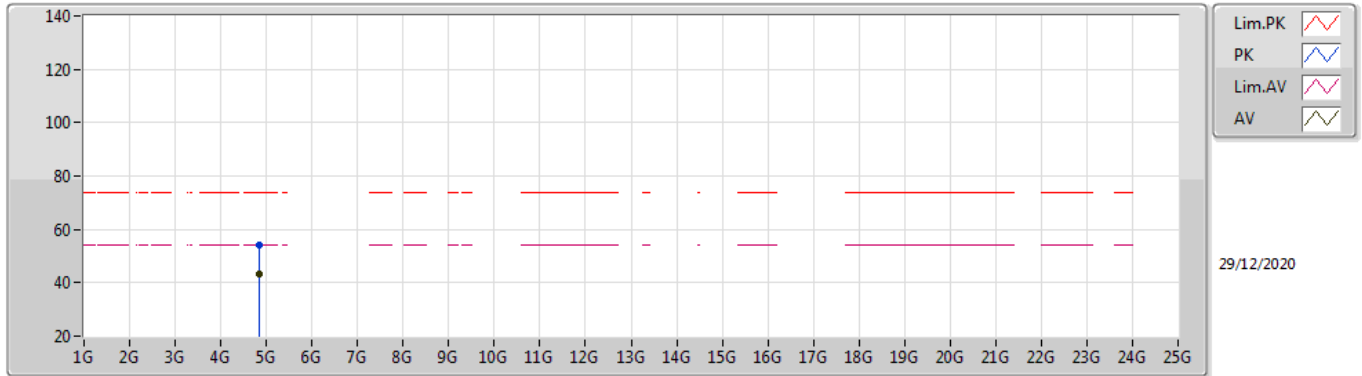
2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3892G	49.07	54.00	-4.93	31.91	3	Horizontal	34	1.18	-	17.16	27.62	4.29	-
AV	2.434G	89.62	Inf	-Inf	31.86	3	Horizontal	34	1.18	-	57.76	27.53	4.33	-
AV	2.4852G	48.09	54.00	-5.91	31.82	3	Horizontal	34	1.18	-	16.27	27.43	4.39	-
PK	2.3772G	61.19	74.00	-12.81	31.93	3	Horizontal	34	1.18	-	29.26	27.65	4.28	-
PK	2.432G	98.93	Inf	-Inf	31.87	3	Horizontal	34	1.18	-	67.06	27.54	4.33	-
PK	2.4835G	60.36	74.00	-13.64	31.81	3	Horizontal	34	1.18	-	28.55	27.43	4.38	-

802.11n HT40_Nss1,(MCS0)_1TX

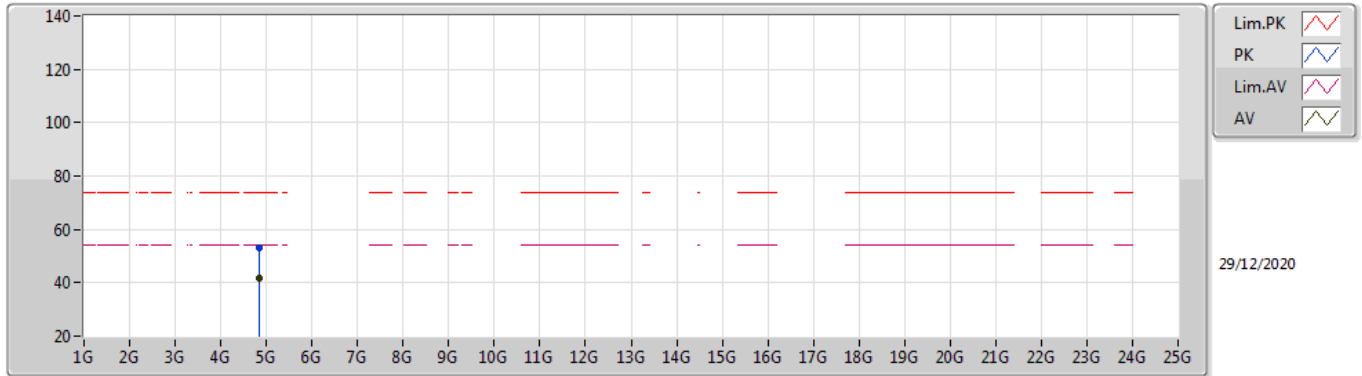
2422MHz_TX



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	4.84392G	43.51	54.00	-10.49	8.42	3	Vertical	194	1.44	-	35.09	31.10	6.54	29.22
PK	4.84384G	54.39	74.00	-19.61	8.42	3	Vertical	194	1.44	-	45.97	31.10	6.54	29.22

802.11n HT40_Nss1,(MCS0)_1TX

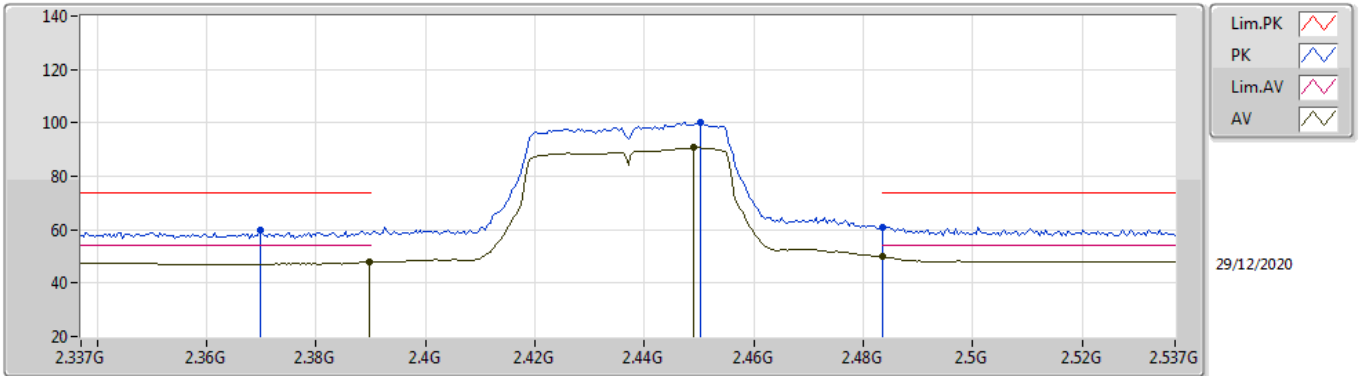
2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8438G	41.86	54.00	-12.14	8.42	3	Horizontal	20	1.11	-	33.44	31.10	6.54	29.22
PK	4.84392G	53.31	74.00	-20.69	8.42	3	Horizontal	20	1.11	-	44.89	31.10	6.54	29.22

802.11n HT40_Nss1,(MCS0)_1TX

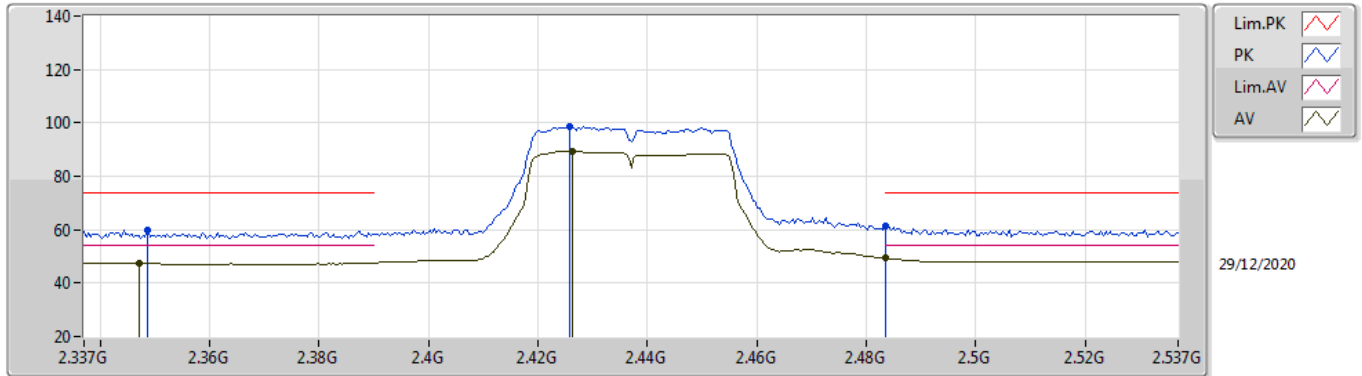
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	47.78	54.00	-6.22	31.91	3	Vertical	108	1.22	-	15.87	27.62	4.29	-
AV	2.449G	90.75	Inf	-Inf	31.85	3	Vertical	108	1.22	-	58.90	27.50	4.35	-
AV	2.4835G	49.89	54.00	-4.11	31.81	3	Vertical	108	1.22	-	18.08	27.43	4.38	-
PK	2.3698G	59.68	74.00	-14.32	31.93	3	Vertical	108	1.22	-	27.75	27.66	4.27	-
PK	2.4502G	100.05	Inf	-Inf	31.85	3	Vertical	108	1.22	-	68.20	27.50	4.35	-
PK	2.4835G	61.10	74.00	-12.90	31.81	3	Vertical	108	1.22	-	29.29	27.43	4.38	-

802.11n HT40_Nss1,(MCS0)_1TX

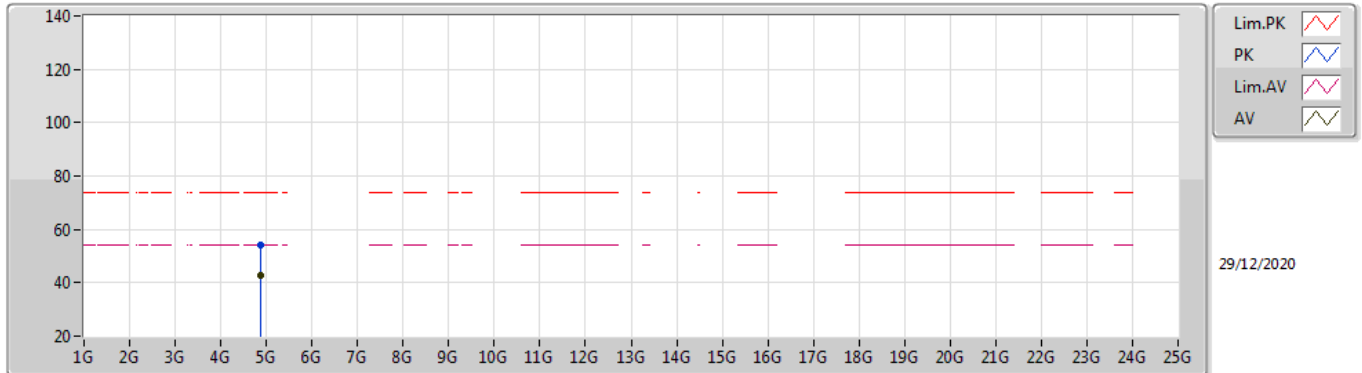
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.347G	47.49	54.00	-6.51	31.96	3	Horizontal	33	1.06	-	15.53	27.71	4.25	-
AV	2.4262G	89.48	Inf	-Inf	31.88	3	Horizontal	33	1.06	-	57.60	27.55	4.33	-
AV	2.4835G	49.41	54.00	-4.59	31.81	3	Horizontal	33	1.06	-	17.60	27.43	4.38	-
PK	2.3486G	59.84	74.00	-14.16	31.96	3	Horizontal	33	1.06	-	27.88	27.71	4.25	-
PK	2.4258G	98.65	Inf	-Inf	31.88	3	Horizontal	33	1.06	-	66.77	27.55	4.33	-
PK	2.4835G	61.29	74.00	-12.71	31.81	3	Horizontal	33	1.06	-	29.48	27.43	4.38	-

802.11n HT40_Nss1,(MCS0)_1TX

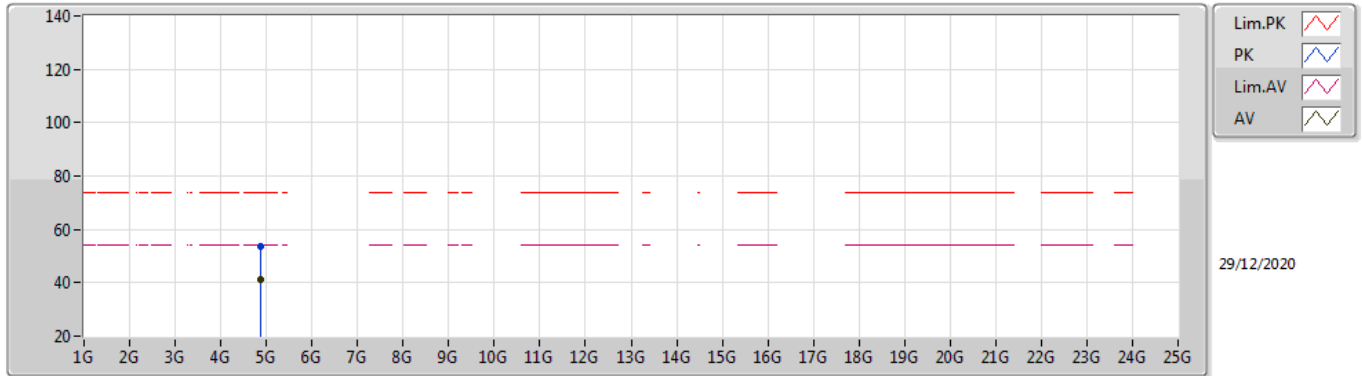
2437MHz_TX



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	4.87396G	42.71	54.00	-11.29	8.46	3	Vertical	193	1.22	-	34.25	31.10	6.57	29.21
PK	4.87312G	53.92	74.00	-20.08	8.46	3	Vertical	193	1.22	-	45.46	31.10	6.57	29.21

802.11n HT40_Nss1,(MCS0)_1TX

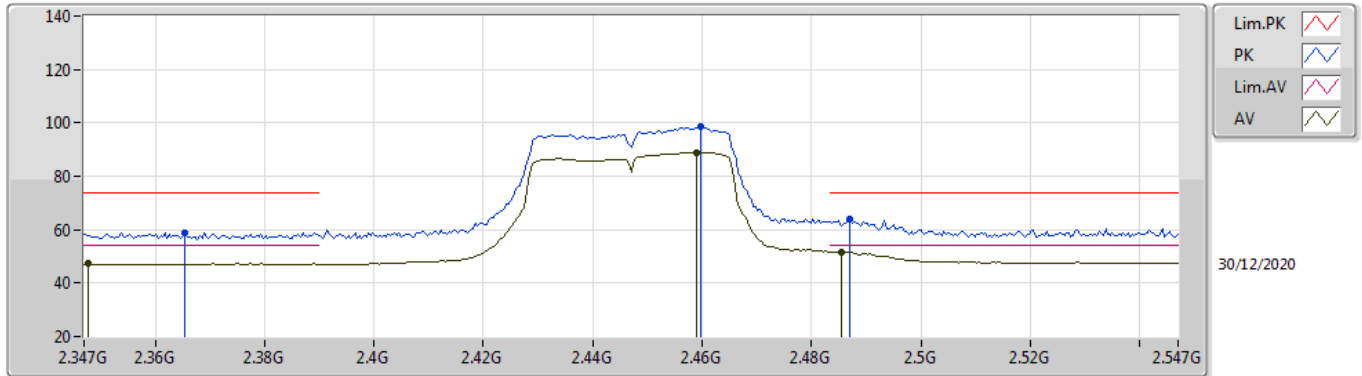
2437MHz_TX



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	4.87396G	41.17	54.00	-12.83	8.46	3	Horizontal	12	1.11	-	32.71	31.10	6.57	29.21
PK	4.87392G	53.60	74.00	-20.40	8.46	3	Horizontal	12	1.11	-	45.14	31.10	6.57	29.21

802.11n HT40_Nss1,(MCS0)_1TX

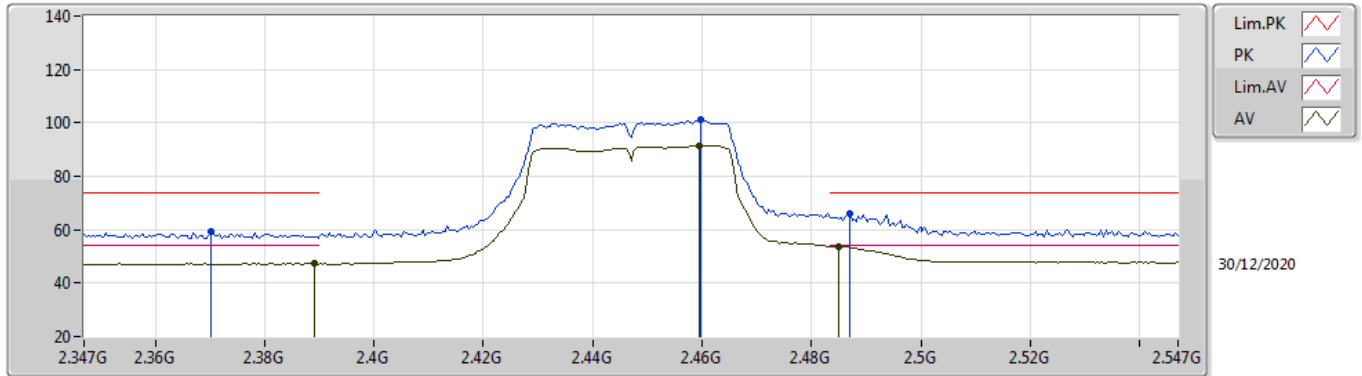
2447MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3478G	47.26	54.00	-6.74	31.96	3	Vertical	76	1.97	-	15.30	27.71	4.25	-
AV	2.459G	89.05	Inf	-Inf	31.84	3	Vertical	76	1.97	-	57.21	27.48	4.36	-
AV	2.4854G	51.76	54.00	-2.24	31.82	3	Vertical	76	1.97	-	19.94	27.43	4.39	-
PK	2.3654G	59.02	74.00	-14.98	31.94	3	Vertical	76	1.97	-	27.08	27.67	4.27	-
PK	2.4598G	98.44	Inf	-Inf	31.84	3	Vertical	76	1.97	-	66.60	27.48	4.36	-
PK	2.487G	63.76	74.00	-10.24	31.82	3	Vertical	76	1.97	-	31.94	27.43	4.39	-

802.11n HT40_Nss1,(MCS0)_1TX

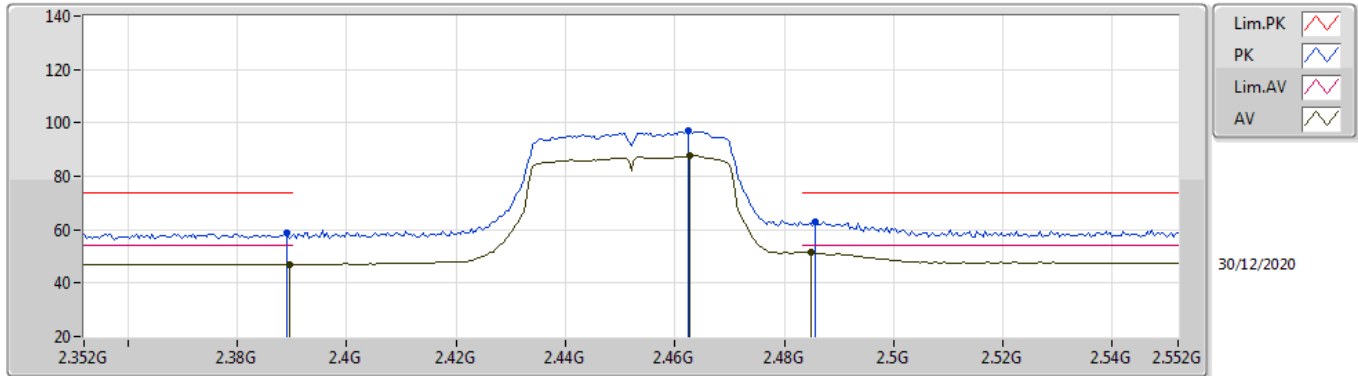
2447MHz_TX



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	2.389G	47.26	54.00	-6.74	31.91	3	Horizontal	344	1.45	-	15.35	27.62	4.29	-
AV	2.4594G	91.48	Inf	-Inf	31.84	3	Horizontal	344	1.45	-	59.64	27.48	4.36	-
AV	2.485G	53.87	54.00	-0.13	31.81	3	Horizontal	344	1.45	-	22.06	27.43	4.38	-
PK	2.3702G	59.17	74.00	-14.83	31.93	3	Horizontal	344	1.45	-	27.24	27.66	4.27	-
PK	2.4598G	101.00	Inf	-Inf	31.84	3	Horizontal	344	1.45	-	69.16	27.48	4.36	-
PK	2.487G	66.10	74.00	-7.90	31.82	3	Horizontal	344	1.45	-	34.28	27.43	4.39	-

802.11n HT40_Nss1,(MCS0)_1TX

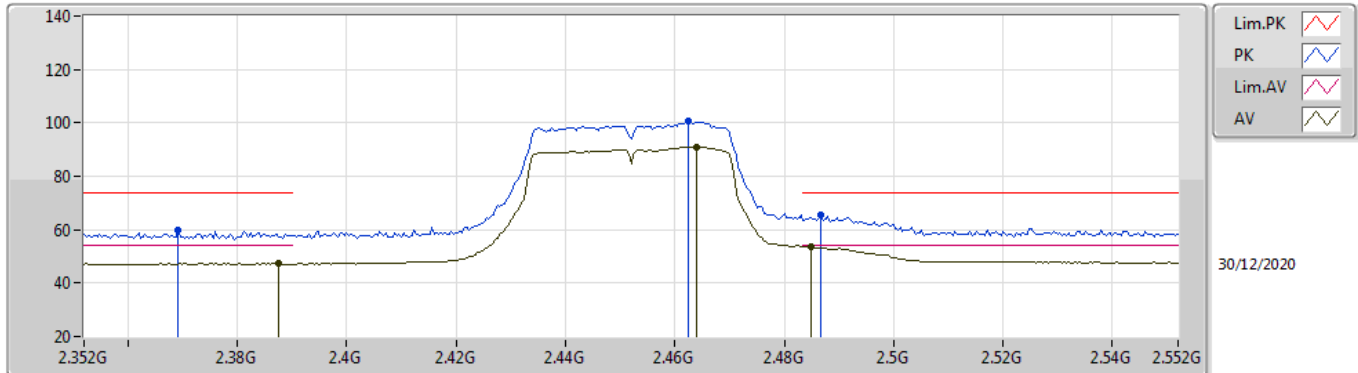
2452MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3896G	46.97	54.00	-7.03	31.91	3	Vertical	74	1.24	-	15.06	27.62	4.29	-
AV	2.4628G	87.55	Inf	-Inf	31.83	3	Vertical	74	1.24	-	55.72	27.47	4.36	-
AV	2.4848G	51.56	54.00	-2.44	31.81	3	Vertical	74	1.24	-	19.75	27.43	4.38	-
PK	2.3892G	58.82	74.00	-15.18	31.91	3	Vertical	74	1.24	-	26.91	27.62	4.29	-
PK	2.4624G	96.95	Inf	-Inf	31.84	3	Vertical	74	1.24	-	65.11	27.48	4.36	-
PK	2.4856G	62.74	74.00	-11.26	31.82	3	Vertical	74	1.24	-	30.92	27.43	4.39	-

802.11n HT40_Nss1,(MCS0)_1TX

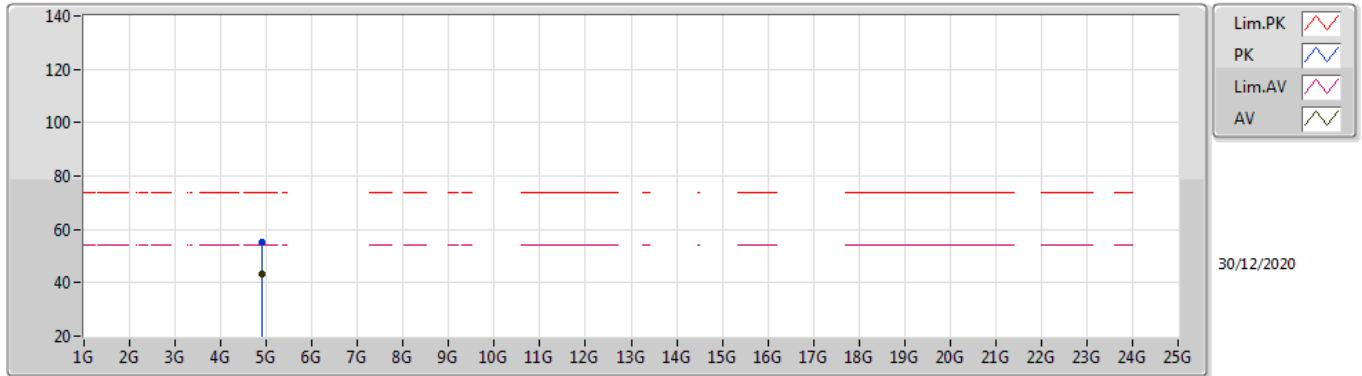
2452MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3876G	47.24	54.00	-6.76	31.91	3	Horizontal	343	1.46	-	15.33	27.62	4.29	-
AV	2.464G	91.04	Inf	-Inf	31.83	3	Horizontal	343	1.46	-	59.21	27.47	4.36	-
AV	2.4848G	53.58	54.00	-0.42	31.81	3	Horizontal	343	1.46	-	21.77	27.43	4.38	-
PK	2.3692G	59.66	74.00	-14.34	31.93	3	Horizontal	343	1.46	-	27.73	27.66	4.27	-
PK	2.4624G	100.57	Inf	-Inf	31.84	3	Horizontal	343	1.46	-	68.73	27.48	4.36	-
PK	2.4868G	65.67	74.00	-8.33	31.82	3	Horizontal	343	1.46	-	33.85	27.43	4.39	-

802.11n HT40_Nss1,(MCS0)_1TX

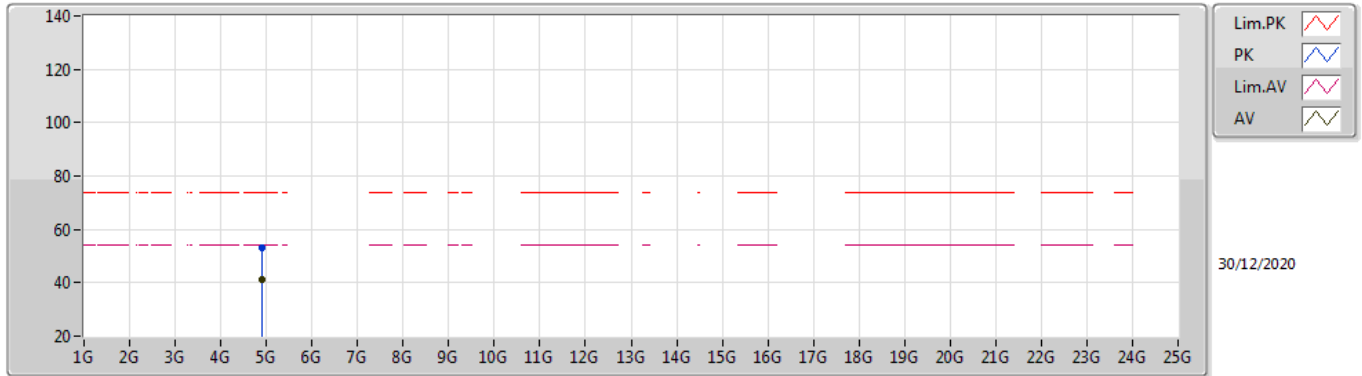
2452MHz_TX



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	4.90384G	43.30	54.00	-10.70	8.51	3	Vertical	166	1.54	-	34.79	31.11	6.60	29.20
PK	4.90404G	54.93	74.00	-19.07	8.51	3	Vertical	166	1.54	-	46.42	31.11	6.60	29.20

802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_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	4.90384G	41.35	54.00	-12.65	8.51	3	Horizontal	45	2.69	-	32.84	31.11	6.60	29.20
PK	4.90388G	53.29	74.00	-20.71	8.51	3	Horizontal	45	2.69	-	44.78	31.11	6.60	29.20



Summary

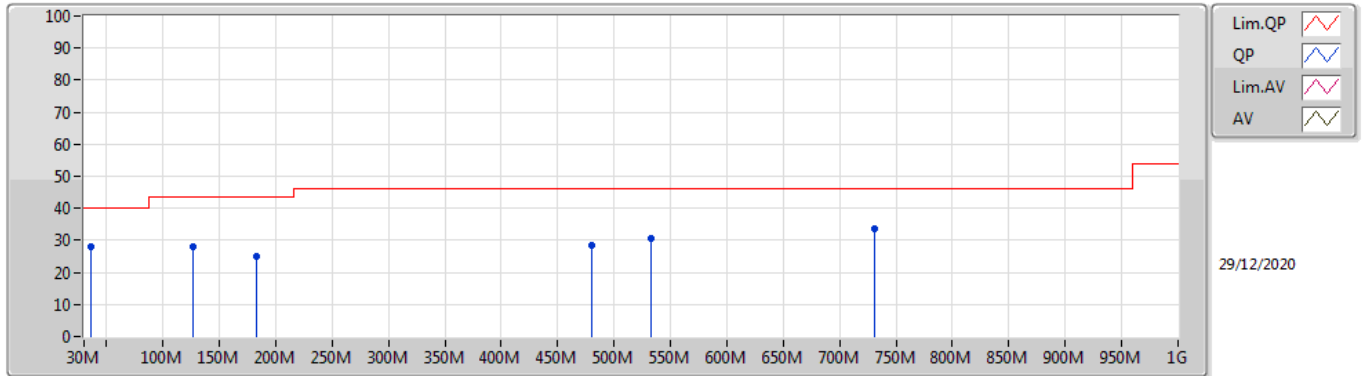
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	PK	88M	31.05	40.00	-8.95	3	Horizontal	0	1.00	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1.(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	35.82M	28.16	40.00	-11.84	3	Vertical	360	1.00	-
2437MHz	Pass	PK	127M	28.23	43.50	-15.27	3	Vertical	360	1.00	-
2437MHz	Pass	PK	183.26M	24.81	43.50	-18.69	3	Vertical	360	1.00	-
2437MHz	Pass	PK	480.08M	28.34	46.00	-17.66	3	Vertical	360	1.00	-
2437MHz	Pass	PK	532.46M	30.58	46.00	-15.42	3	Vertical	360	1.00	-
2437MHz	Pass	PK	730.34M	33.62	46.00	-12.38	3	Vertical	360	1.00	-
2437MHz	Pass	PK	88M	31.05	40.00	-8.95	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	125.06M	31.55	43.50	-11.95	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	185.2M	30.43	43.50	-13.07	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	321M	33.88	46.00	-12.12	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	367.56M	33.58	46.00	-12.42	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	730.34M	35.99	46.00	-10.01	3	Horizontal	0	1.00	-

802.11n HT40_Nss1,(MCS0)_1RX

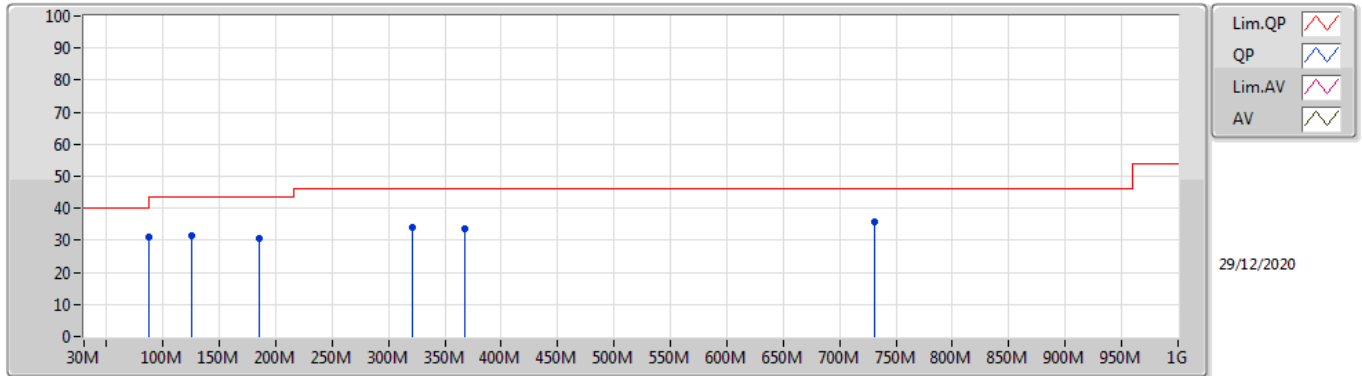
2437MHz_Test Fixture



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	35.82M	28.16	40.00	-11.84	-6.51	3	Vertical	360	1.00	-	34.67	20.12	0.92	27.55
PK	127M	28.23	43.50	-15.27	-8.06	3	Vertical	360	1.00	-	36.29	17.37	1.84	27.27
PK	183.26M	24.81	43.50	-18.69	-10.35	3	Vertical	360	1.00	-	35.16	14.43	2.22	27.00
PK	480.08M	28.34	46.00	-17.66	-1.50	3	Vertical	360	1.00	-	29.84	22.67	3.58	27.75
PK	532.46M	30.58	46.00	-15.42	-0.61	3	Vertical	360	1.00	-	31.19	23.50	3.83	27.94
PK	730.34M	33.62	46.00	-12.38	1.71	3	Vertical	360	1.00	-	31.91	25.19	4.52	28.00

802.11n HT40_Nss1,(MCS0)_1RX

2437MHz_Test Fixture



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	88M	31.05	40.00	-8.95	-12.09	3	Horizontal	0	1.00	-	43.14	13.83	1.50	27.42
PK	125.06M	31.55	43.50	-11.95	-7.89	3	Horizontal	0	1.00	-	39.44	17.55	1.83	27.27
PK	185.2M	30.43	43.50	-13.07	-10.41	3	Horizontal	0	1.00	-	40.84	14.35	2.23	26.99
PK	321M	33.88	46.00	-12.12	-5.01	3	Horizontal	0	1.00	-	38.89	18.78	2.98	26.77
PK	367.56M	33.58	46.00	-12.42	-3.78	3	Horizontal	0	1.00	-	37.36	20.10	3.17	27.05
PK	730.34M	35.99	46.00	-10.01	1.71	3	Horizontal	0	1.00	-	34.28	25.19	4.52	28.00



Summary

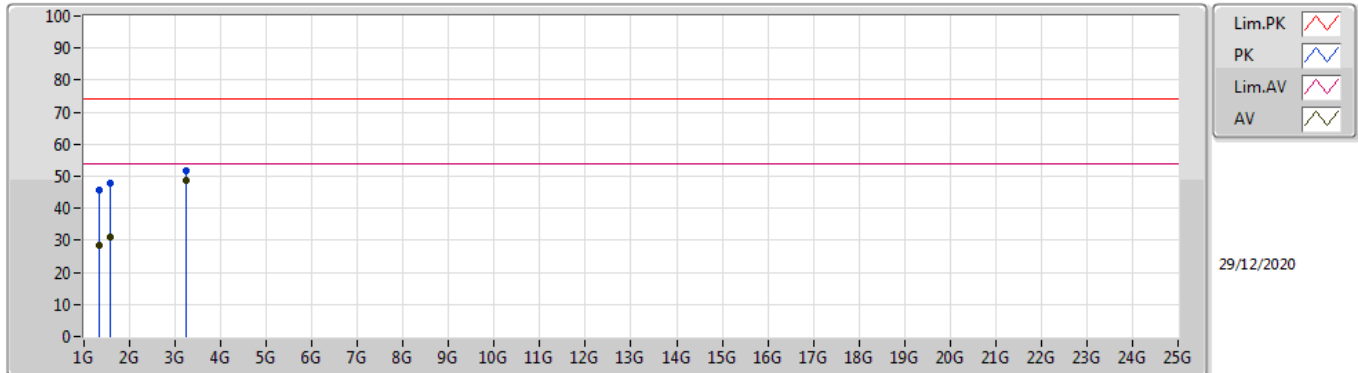
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	AV	3.24923G	49.51	54.00	-4.49	3	Horizontal	178	1.32	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	AV	1.336G	28.41	54.00	-25.59	3	Vertical	360	1.00	-
2437MHz	Pass	AV	1.576G	31.12	54.00	-22.88	3	Vertical	360	1.00	-
2437MHz	Pass	AV	3.24941G	48.63	54.00	-5.37	3	Vertical	213	1.00	-
2437MHz	Pass	PK	1.336G	45.79	74.00	-28.21	3	Vertical	360	1.00	-
2437MHz	Pass	PK	1.576G	47.95	74.00	-26.05	3	Vertical	360	1.00	-
2437MHz	Pass	PK	3.24941G	51.72	74.00	-22.28	3	Vertical	213	1.00	-
2437MHz	Pass	AV	1.36G	28.53	54.00	-25.47	3	Horizontal	0	1.00	-
2437MHz	Pass	AV	1.576G	29.92	54.00	-24.08	3	Horizontal	0	1.00	-
2437MHz	Pass	AV	3.24923G	49.51	54.00	-4.49	3	Horizontal	178	1.32	-
2437MHz	Pass	PK	1.36G	44.39	74.00	-29.61	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	1.576G	44.00	74.00	-30.00	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	3.24923G	52.07	74.00	-21.93	3	Horizontal	178	1.32	-

802.11n HT40_Nss1,(MCS0)_1RX

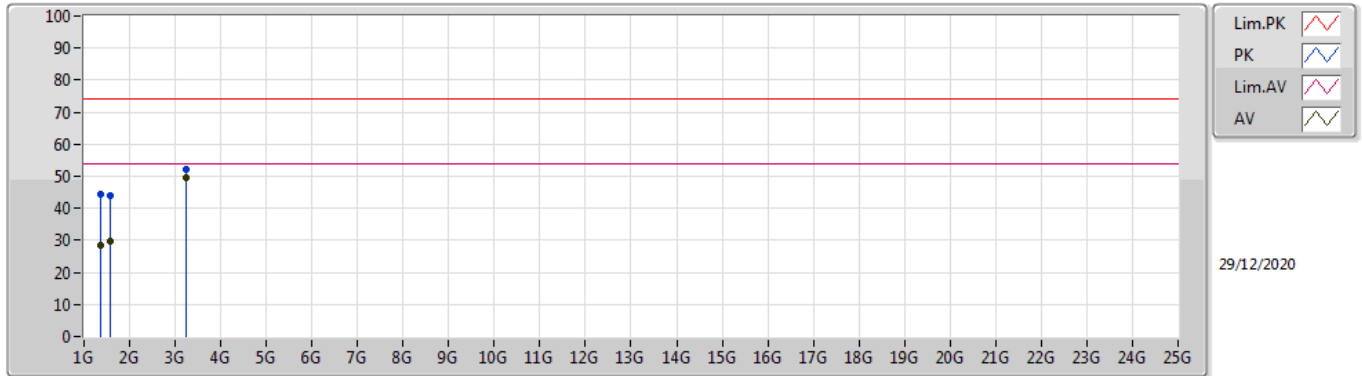
2437MHz_RX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	1.336G	28.41	54.00	-25.59	-2.40	3	Vertical	360	1.00	-	30.81	26.09	3.10	31.59
AV	1.576G	31.12	54.00	-22.88	-2.03	3	Vertical	360	1.00	-	33.15	25.40	3.38	30.81
AV	3.24941G	48.63	54.00	-5.37	4.16	3	Vertical	213	1.00	-	44.47	28.70	5.25	29.79
PK	1.336G	45.79	74.00	-28.21	-2.40	3	Vertical	360	1.00	-	48.19	26.09	3.10	31.59
PK	1.576G	47.95	74.00	-26.05	-2.03	3	Vertical	360	1.00	-	49.98	25.40	3.38	30.81
PK	3.24941G	51.72	74.00	-22.28	4.16	3	Vertical	213	1.00	-	47.56	28.70	5.25	29.79

802.11n HT40_Nss1,(MCS0)_1RX

2437MHz_RX



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	1.36G	28.53	54.00	-25.47	-2.19	3	Horizontal	0	1.00	-	30.72	26.16	3.14	31.49
AV	1.576G	29.92	54.00	-24.08	-2.03	3	Horizontal	0	1.00	-	31.95	25.40	3.38	30.81
AV	3.24923G	49.51	54.00	-4.49	4.16	3	Horizontal	178	1.32	-	45.35	28.70	5.25	29.79
PK	1.36G	44.39	74.00	-29.61	-2.19	3	Horizontal	0	1.00	-	46.58	26.16	3.14	31.49
PK	1.576G	44.00	74.00	-30.00	-2.03	3	Horizontal	0	1.00	-	46.03	25.40	3.38	30.81
PK	3.24923G	52.07	74.00	-21.93	4.16	3	Horizontal	178	1.32	-	47.91	28.70	5.25	29.79



Exposure Environment: General Population / Uncontrolled Exposure

For WLAN 2.4G

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
2.4G;G1D	2.50	16.15	18.65	0.50	19.15	0.08222	20	0.01636	1.00000
2.4G;D1D	2.50	14.93	17.43	0.50	17.93	0.06209	20	0.01235	1.00000