

NCC Test Report

Equipment : 藍牙音箱
Brand Name : MARSHALL
Model Name : UXBRIDGE WITH GOOGLE ASSISTANT
Applicant : 百滋國際股份有限公司
台北市松山區寶清街 17 號 5 樓之 1
Manufacturer : Zound Industries International AB
Room 411-412, 4th Floor, Main Building, No. 99 Qiao Cheng
East Road, Nanshan District, Shenzhen City, China
Standard : LP0002 Section 3.10 (2018-01-10)

The product was received on Apr. 21, 2020, and testing was started from Jun. 09, 2020 and completed on Jun. 13, 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

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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	3.10.1.4	Antenna Requirement	PASS	-
3.1	2.3	AC Power-line Conducted Emissions	PASS	-
3.2	3.10.1.6	DTS Bandwidth	PASS	-
3.3	3.10.1.2	Maximum Conducted Output Power	PASS	-
3.4	3.10.1.6	Power Spectral Density	PASS	-
3.5	3.10.1.5	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	3.10.1.5	Emissions in Restricted Frequency Bands	PASS	-
3.7	2.11	Receiver Radiated Unwanted Emissions	PASS	-
3.8	5.20	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: Michelle Tsai

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	Walsin	RFPCA242312EMLB301	PCB	NA
2	Walsin	RFPCA232011EMLB301	PCB	NA

Ant.	Port	Gain (dBi)					
		2.4G	5G				BT
			Band 1	Band 2	Band 3	Band 4	
1	1	2.46	3.25	3.25	3.64	3.5	2.46
2	2	3.15	3.67	3.67	3.47	2.95	-

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

Support diversity function and pre-tested on each single chain, the worst case was Ant. 2(port 2) and it was recorded in this test report.

For BT function:

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

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

For 5GHz function:

For IEEE 802.11 a/n/ac mode (1TX/1RX)

Support diversity function and pre-tested on each single chain, the worst case was Ant. 2(port 2) and it was recorded in this test report.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From Switching Power Supply			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point
Beamforming Function	☐	With beamforming	☒	Without beamforming
Type of EUT				
☒	Stand-alone			
☐	Combined (EUT where the radio part is fully integrated within another device)			
	Combined Equipment - Brand Name / Model No.:		...	
☐	Plug-in radio (EUT intended for a variety of host systems)			
	Host System - Brand Name / Model No.:		...	
☐	Other:			

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b_Nss1,(1Mbps)_1TX(Port2)	0.991	0.04	8.418m	10
802.11g_Nss1,(6Mbps)_1TX(Port2)	0.934	0.3	1.397m	1k
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	0.929	0.32	1.309m	1k

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

1.1.5 Table for Multiple Listing

Sample	Description
1	There are two samples of EUT, the only difference between samples is the appearance color.
2	

Note: Sample 1 configuration was measured during the test.

1.2 Testing Applied Standards

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

- ♦ LP0002 (2018-01-10)
- ♦ 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	21.4~23.6°C/57~60%	13/Jun/2020
RF Conducted	TH06-HY	Alan Chien	21.1~26.9°C/50~60%	10/Jun/2020~11/Jun/2020
Radiated	03CH09-HY	Daniel Hsu	21.3~22.8°C/55~58%	09/Jun/2020~12/Jun/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	Dos
---------------	-----

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX(Port2)	-
2412MHz	19
2417MHz	20
2437MHz	20
2457MHz	20
2462MHz	18
802.11g_Nss1,(6Mbps)_1TX(Port2)	-
2412MHz	16
2417MHz	17
2437MHz	21
2457MHz	18
2462MHz	16
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	-
2412MHz	15
2417MHz	18
2437MHz	21
2457MHz	18
2462MHz	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	Switching Power Supply Mode; TX
2	Switching Power Supply Mode; RX

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 Receiver Radiated Spurious Emissions
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	Switching Power Supply Mode
Operating Mode > 1GHz	CTX/CRX
Orthogonal Planes of EUT	Y Plane
	

2.4 Accessories

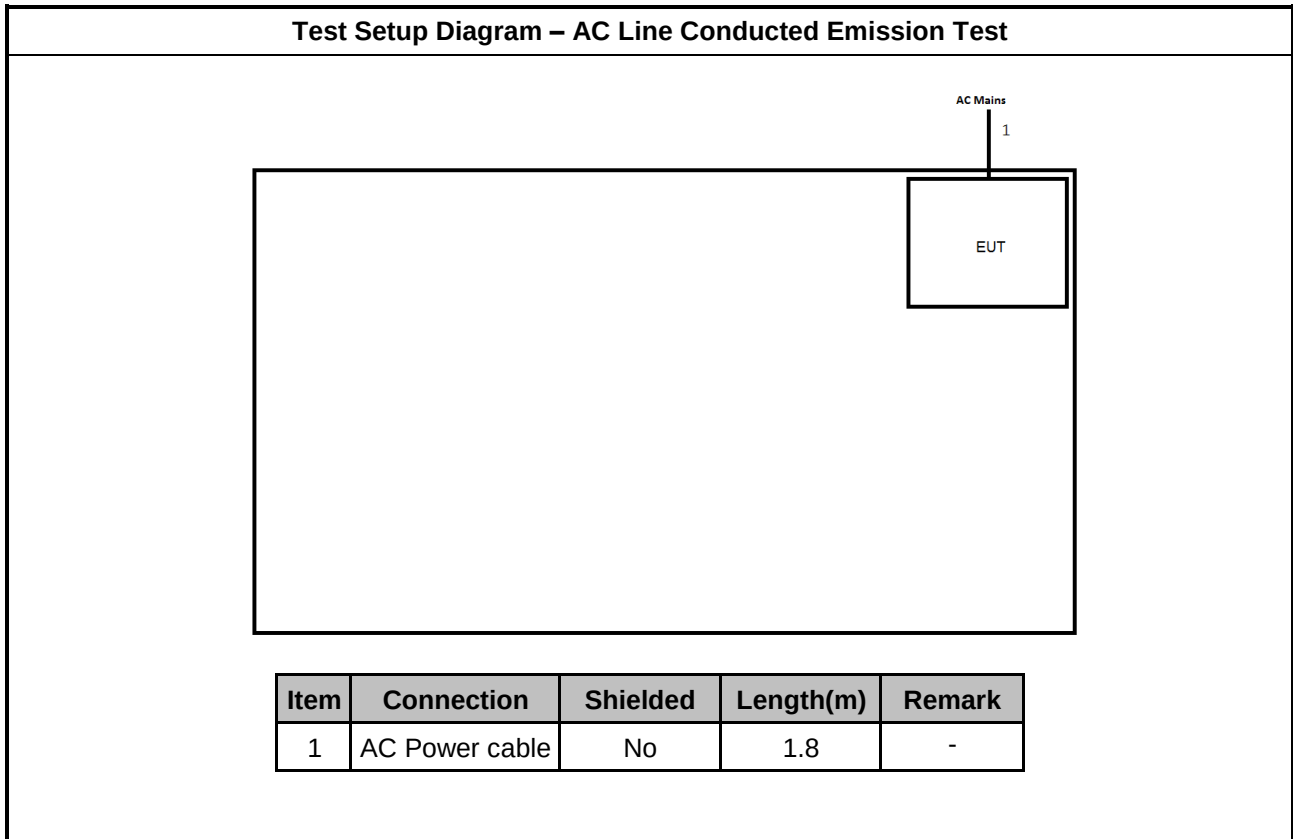
Accessories Information				
AC Power Cord	Brand Name	景盛電線材料股份有限公司	Model Name	EL-403+EL-713
	Signal Line	1.8 meter, non-shielded cable, w/o ferrite core		

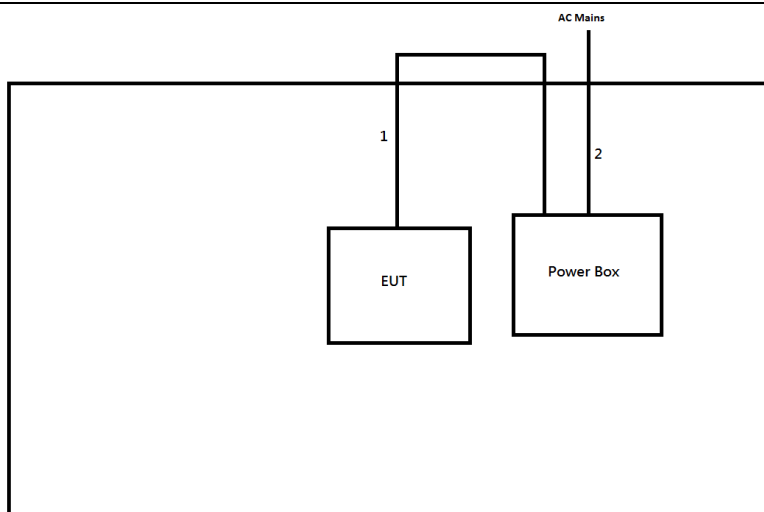
Reminder: Regarding to more detail and other information, please refer to user manual.

2.5 Support Equipment

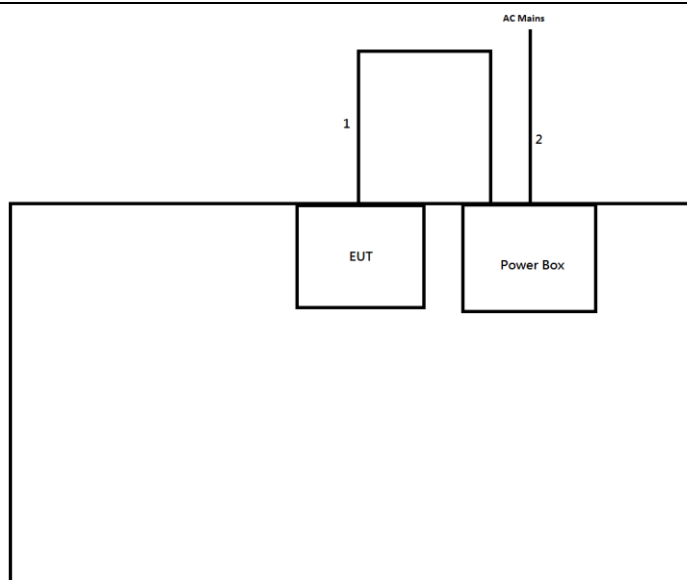
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test (TX)


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

Test Setup Diagram - Radiated Test (RX)


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

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.		

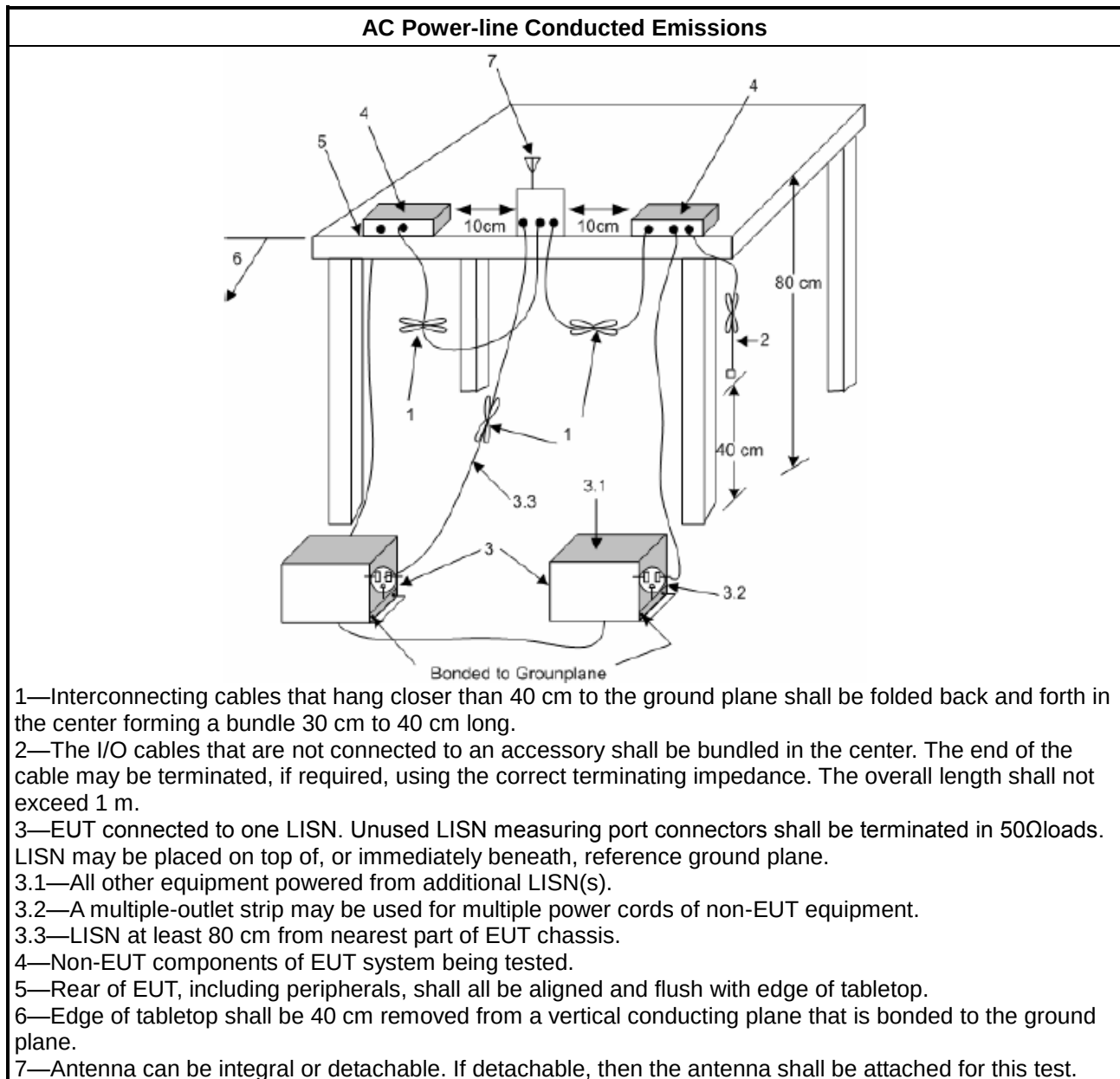
3.1.2 Measuring Instruments

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 Test Setup



3.1.5 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.

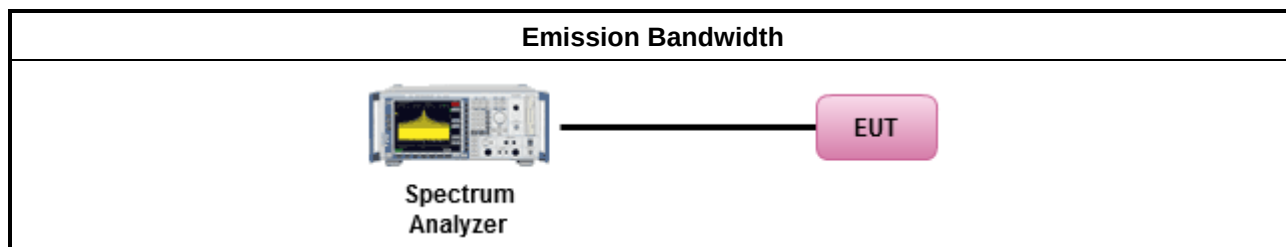
3.2.2 Measuring Instruments

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.		

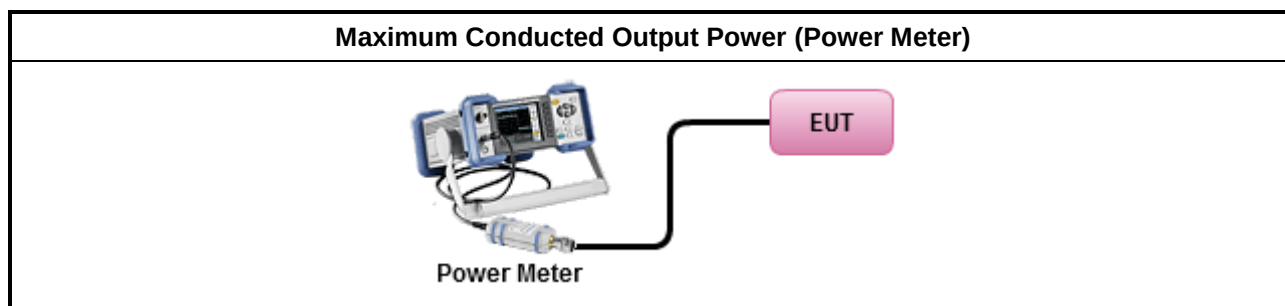
3.3.2 Measuring Instruments

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

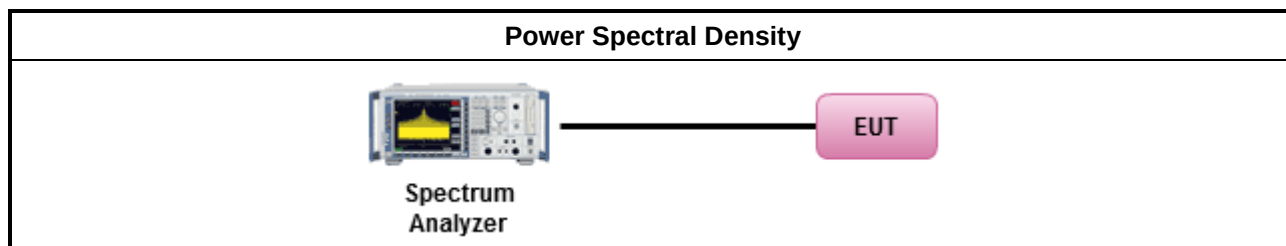
3.4.2 Measuring Instruments

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.	

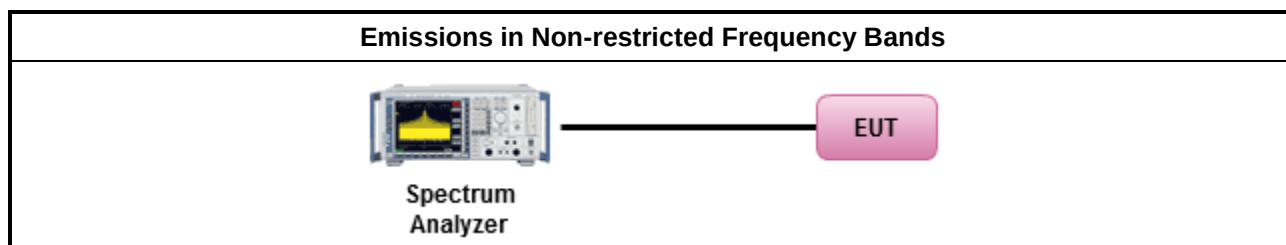
3.5.2 Measuring Instruments

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.

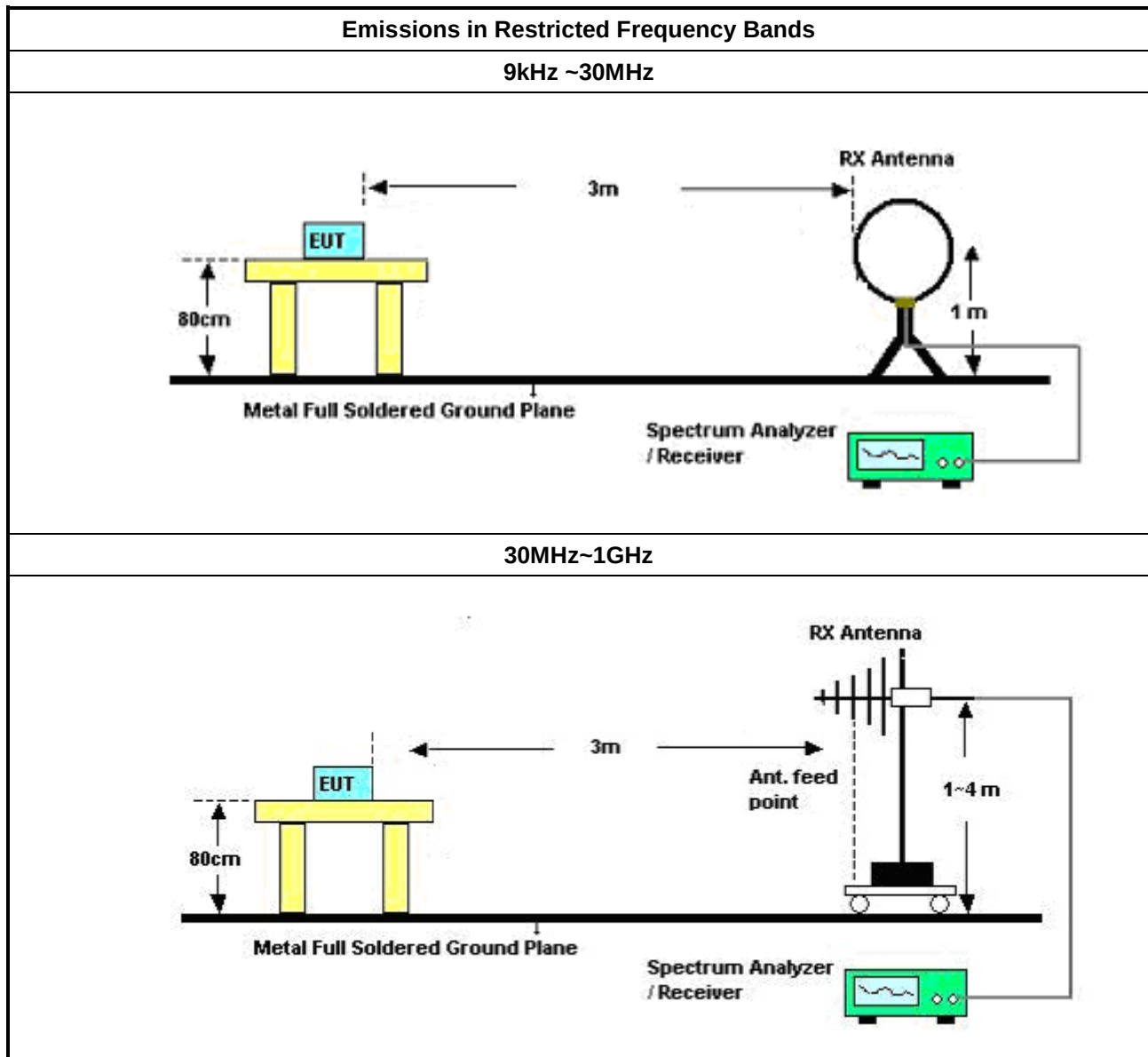
3.6.2 Measuring Instruments

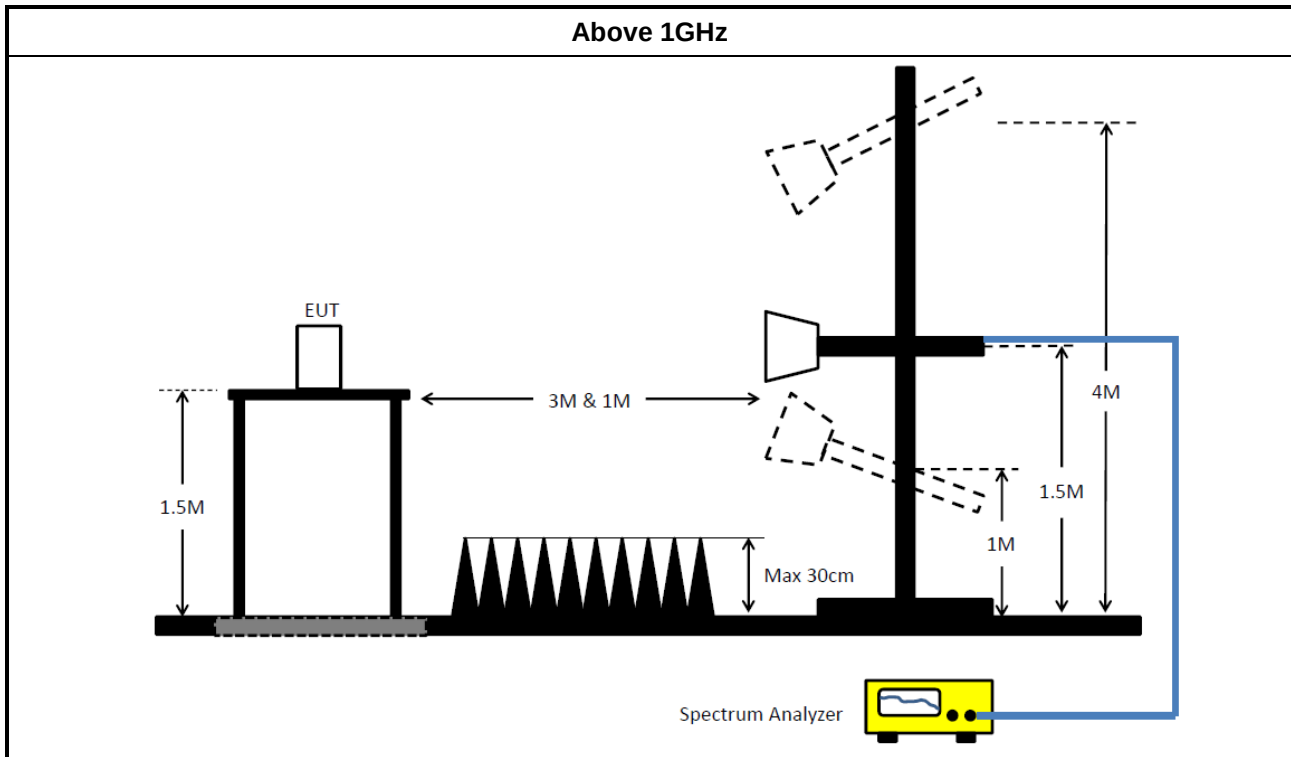
Refer a test equipment and calibration data table in this test report.

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 5.5.2: 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 Test Setup





3.6.5 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.

3.6.6 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.

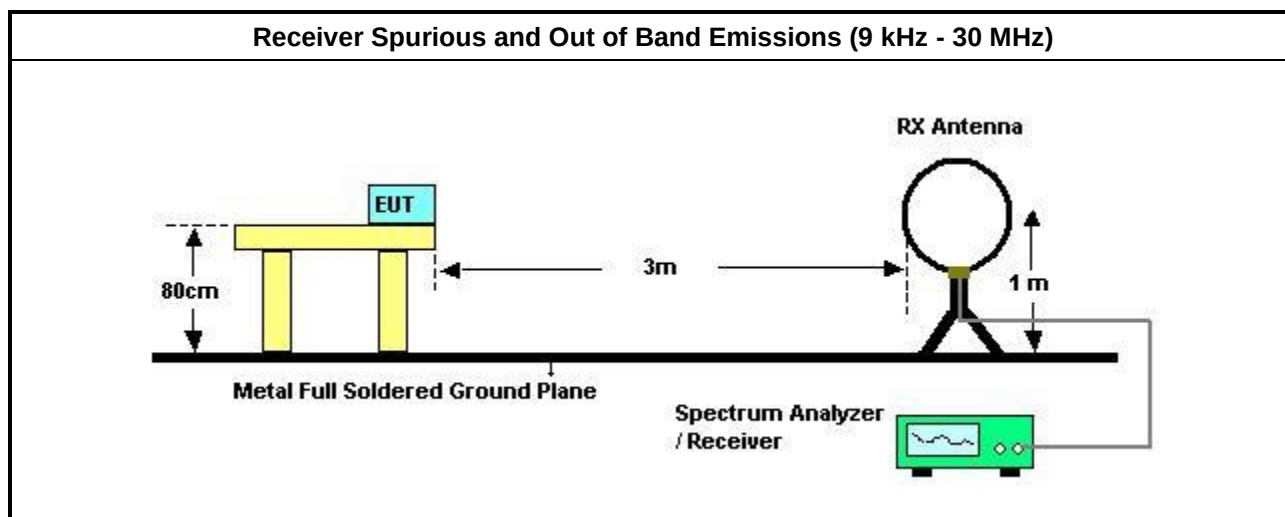
3.7.2 Measuring Instruments

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

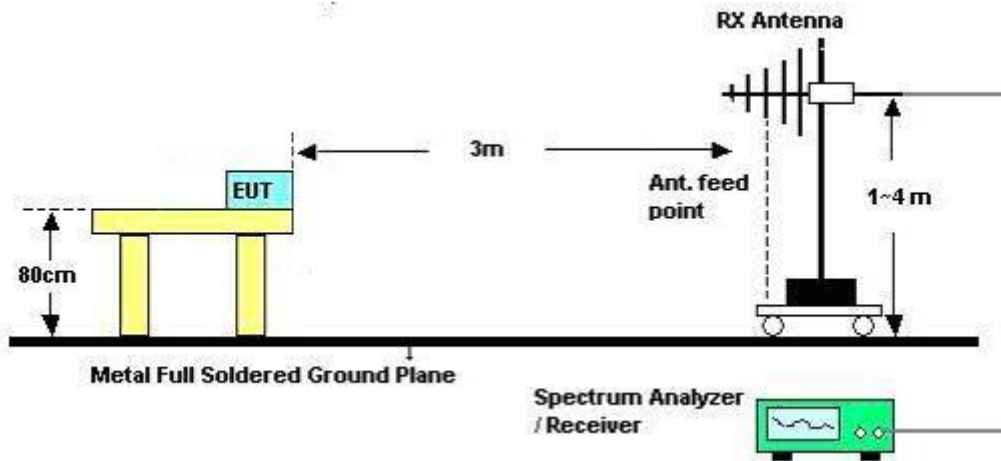
3.7.3 Test Procedures

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.

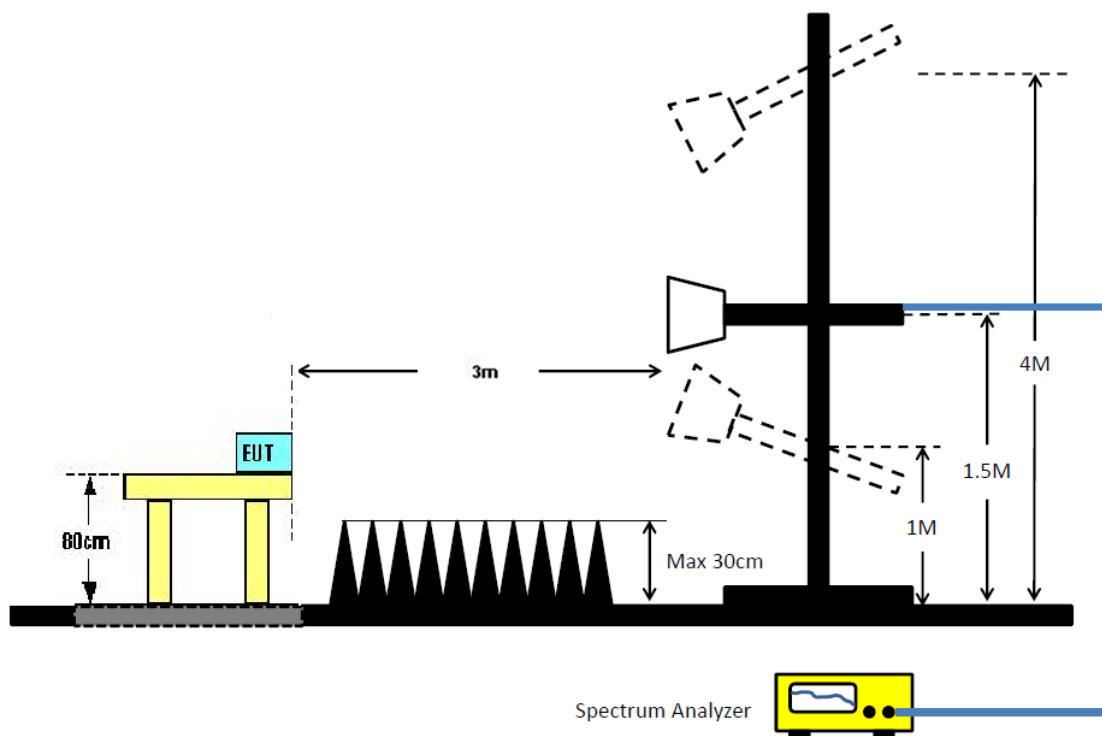
3.7.4 Test Setup



Receiver Radiated Unwanted Emissions (below 1GHz)



Receiver Radiated Unwanted Emissions (above 1GHz)



3.7.5 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.

3.7.6 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	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR	102051	9kHz ~ 3.6GHz	29/May/2020	28/May/2021
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	05/Nov/2019	04/Nov/2020
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	23/Sep/2019	22/Sep/2020
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	24/Sep/2019	23/Sep/2020

NCR: Non-Calibration Require

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	27/Mar/2020	26/Mar/2021
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	19/Mar/2020	18/Mar/2021
Microwave Preamplifier	Agilent	8449B	3008A02326	1GHz ~ 26.5GHz	15/Jul/2019	14/Jul/2020
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	14/Apr/2020	13/Apr/2021
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	29/May/2020	28/May/2021
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	07/Aug/2019	06/Aug/2020
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30MHz~1GHz	11/Oct/2019	10/Oct/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	28/May/2020	27/May/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	10/Mar/2020	09/Mar/2021
Loop Antenna	TESEQ	HLA 6120	31244	9kHz-30MHz	16/Mar/2020	15/Mar/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/4	9kHz ~ 1GHz	12/Feb/2020	11/Feb/2021
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	324530/4+17173/4	1GHz ~ 40GHz	12/Feb/2020	11/Feb/2021

**Instrument for Conducted Test**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101029	10kHz ~ 40GHz	01/Oct/2019	30/Sep/2020
Pulse Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	18/Mar/2020	17/Mar/2021
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	18/Mar/2020	17/Mar/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition
Mode 1	Pass	AV	908.364k	33.94	46.00	-12.06	19.63	Line
Mode 2	Pass	AV	908.364k	34.03	46.00	-11.97	19.63	Line

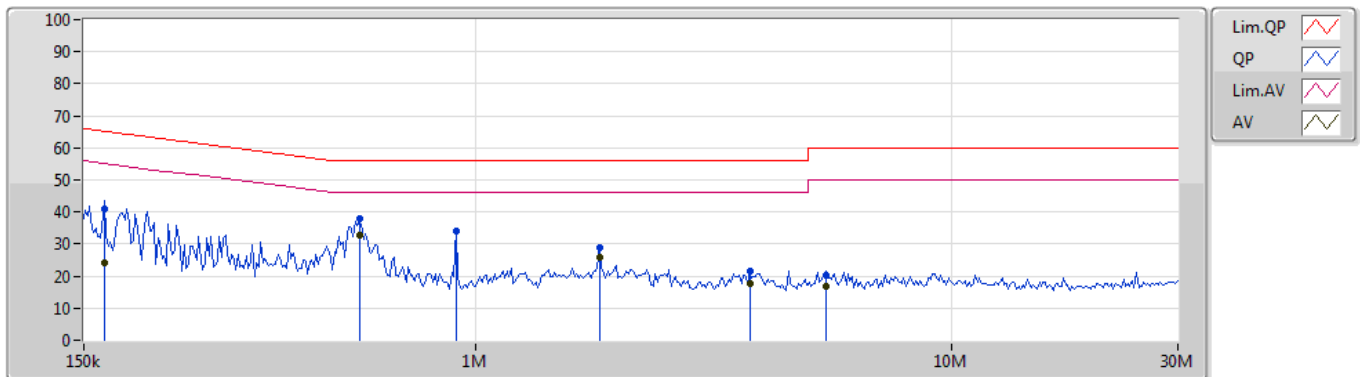
Mode Configure

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comments	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
Mode 1	Pass	QP	165.693k	41.03	65.18	-24.15	19.64	Line	-	21.39	9.66	0.11	9.87
Mode 1	Pass	AV	165.693k	23.97	55.18	-31.21	19.64	Line	-	4.33	9.66	0.11	9.87
Mode 1	Pass	QP	569.056k	37.91	56.00	-18.09	19.64	Line	-	18.27	9.64	0.13	9.87
Mode 1	Pass	AV	569.056k	32.96	46.00	-13.04	19.64	Line	-	13.32	9.64	0.13	9.87
Mode 1	Pass	QP	908.364k	34.09	56.00	-21.91	19.63	Line	-	14.46	9.64	0.11	9.88
Mode 1	Pass	AV	908.364k	33.94	46.00	-12.06	19.63	Line	"Worst"	14.31	9.64	0.11	9.88
Mode 1	Pass	QP	1.823M	28.77	56.00	-27.23	19.66	Line	-	9.11	9.65	0.14	9.87
Mode 1	Pass	AV	1.823M	25.93	46.00	-20.07	19.66	Line	-	6.27	9.65	0.14	9.87
Mode 1	Pass	QP	3.769M	21.74	56.00	-34.26	19.72	Line	-	2.02	9.66	0.18	9.88
Mode 1	Pass	AV	3.769M	17.85	46.00	-28.15	19.72	Line	-	-1.87	9.66	0.18	9.88
Mode 1	Pass	QP	5.446M	20.42	60.00	-39.58	19.76	Line	-	0.66	9.67	0.21	9.88
Mode 1	Pass	AV	5.446M	16.75	50.00	-33.25	19.76	Line	-	-3.01	9.67	0.21	9.88
Mode 1	Pass	QP	160.82k	41.04	65.43	-24.39	19.63	Neutral	-	21.41	9.65	0.11	9.87
Mode 1	Pass	AV	160.82k	27.12	55.43	-28.31	19.63	Neutral	-	7.49	9.65	0.11	9.87
Mode 1	Pass	QP	563.422k	37.90	56.00	-18.10	19.63	Neutral	-	18.27	9.63	0.13	9.87
Mode 1	Pass	AV	563.422k	32.43	46.00	-13.57	19.63	Neutral	-	12.80	9.63	0.13	9.87
Mode 1	Pass	QP	908.364k	34.53	56.00	-21.47	19.62	Neutral	-	14.91	9.63	0.11	9.88
Mode 1	Pass	AV	908.364k	33.83	46.00	-12.17	19.62	Neutral	"Worst"	14.21	9.63	0.11	9.88
Mode 1	Pass	QP	1.823M	28.46	56.00	-27.54	19.66	Neutral	-	8.80	9.65	0.14	9.87
Mode 1	Pass	AV	1.823M	26.16	46.00	-19.84	19.66	Neutral	-	6.50	9.65	0.14	9.87
Mode 1	Pass	QP	3.446M	22.73	56.00	-33.27	19.72	Neutral	-	3.01	9.66	0.18	9.88
Mode 1	Pass	AV	3.446M	17.35	46.00	-28.65	19.72	Neutral	-	-2.37	9.66	0.18	9.88
Mode 1	Pass	QP	5.286M	22.13	60.00	-37.87	19.76	Neutral	-	2.37	9.67	0.21	9.88
Mode 1	Pass	AV	5.286M	18.22	50.00	-31.78	19.76	Neutral	-	-1.54	9.67	0.21	9.88
Mode 2	Pass	QP	151.5k	42.28	65.92	-23.64	19.64	Line	-	22.64	9.66	0.11	9.87
Mode 2	Pass	AV	151.5k	26.20	55.92	-29.72	19.64	Line	-	6.56	9.66	0.11	9.87
Mode 2	Pass	QP	563.422k	38.19	56.00	-17.81	19.64	Line	-	18.55	9.64	0.13	9.87
Mode 2	Pass	AV	563.422k	32.99	46.00	-13.01	19.64	Line	-	13.35	9.64	0.13	9.87
Mode 2	Pass	QP	908.364k	34.11	56.00	-21.89	19.63	Line	-	14.48	9.64	0.11	9.88
Mode 2	Pass	AV	908.364k	34.03	46.00	-11.97	19.63	Line	"Worst"	14.40	9.64	0.11	9.88
Mode 2	Pass	QP	1.823M	28.78	56.00	-27.22	19.66	Line	-	9.12	9.65	0.14	9.87
Mode 2	Pass	AV	1.823M	25.76	46.00	-20.24	19.66	Line	-	6.10	9.65	0.14	9.87
Mode 2	Pass	QP	3.622M	20.00	56.00	-36.00	19.72	Line	-	0.28	9.66	0.18	9.88
Mode 2	Pass	AV	3.622M	16.27	46.00	-29.73	19.72	Line	-	-3.45	9.66	0.18	9.88
Mode 2	Pass	QP	5.556M	20.37	60.00	-39.63	19.76	Line	-	0.61	9.67	0.21	9.88
Mode 2	Pass	AV	5.556M	16.80	50.00	-33.20	19.76	Line	-	-2.96	9.67	0.21	9.88
Mode 2	Pass	QP	153.015k	43.09	65.83	-22.74	19.63	Neutral	-	23.46	9.65	0.11	9.87
Mode 2	Pass	AV	153.015k	28.25	55.83	-27.58	19.63	Neutral	-	8.62	9.65	0.11	9.87
Mode 2	Pass	QP	569.056k	37.97	56.00	-18.03	19.63	Neutral	-	18.34	9.63	0.13	9.87
Mode 2	Pass	AV	569.056k	32.91	46.00	-13.09	19.63	Neutral	-	13.28	9.63	0.13	9.87
Mode 2	Pass	QP	908.364k	34.62	56.00	-21.38	19.62	Neutral	-	15.00	9.63	0.11	9.88
Mode 2	Pass	AV	908.364k	33.94	46.00	-12.06	19.62	Neutral	"Worst"	14.32	9.63	0.11	9.88
Mode 2	Pass	QP	1.823M	27.88	56.00	-28.12	19.66	Neutral	-	8.22	9.65	0.14	9.87

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comments	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
Mode 2	Pass	AV	1.823M	25.13	46.00	-20.87	19.66	Neutral	-	5.47	9.65	0.14	9.87
Mode 2	Pass	QP	3.515M	22.29	56.00	-33.71	19.72	Neutral	-	2.57	9.66	0.18	9.88
Mode 2	Pass	AV	3.515M	17.06	46.00	-28.94	19.72	Neutral	-	-2.66	9.66	0.18	9.88
Mode 2	Pass	QP	5.131M	21.16	60.00	-38.84	19.75	Neutral	-	1.41	9.67	0.20	9.88
Mode 2	Pass	AV	5.131M	17.26	50.00	-32.74	19.75	Neutral	-	-2.49	9.67	0.20	9.88

Conducted Emissions at Powerline_Mode 1

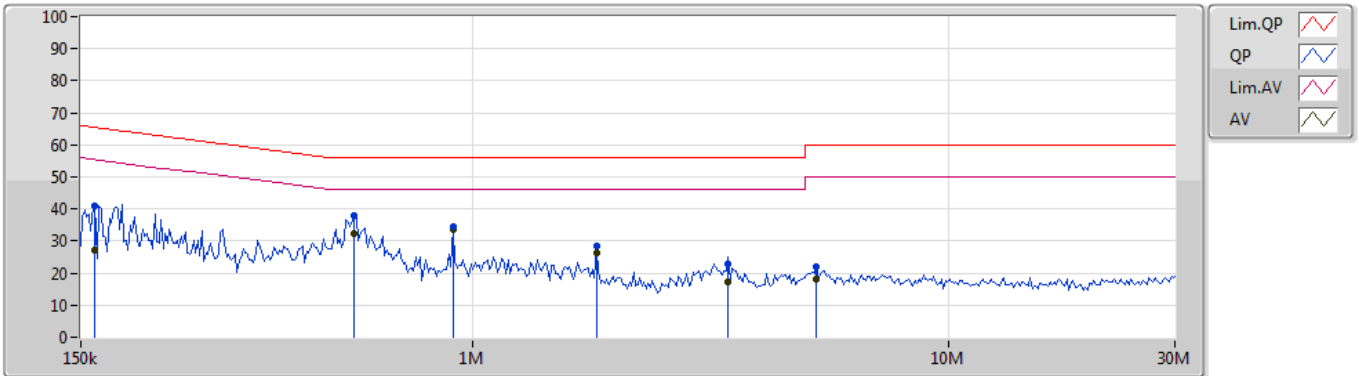
13/06/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	165.693k	41.03	65.18	-24.15	19.64	Line	-	21.39	9.66	0.11	9.87			
AV	165.693k	23.97	55.18	-31.21	19.64	Line	-	4.33	9.66	0.11	9.87			
QP	569.056k	37.91	56.00	-18.09	19.64	Line	-	18.27	9.64	0.13	9.87			
AV	569.056k	32.96	46.00	-13.04	19.64	Line	-	13.32	9.64	0.13	9.87			
QP	908.364k	34.09	56.00	-21.91	19.63	Line	-	14.46	9.64	0.11	9.88			
AV	908.364k	33.94	46.00	-12.06	19.63	Line	"Worst"	14.31	9.64	0.11	9.88			
QP	1.823M	28.77	56.00	-27.23	19.66	Line	-	9.11	9.65	0.14	9.87			
AV	1.823M	25.93	46.00	-20.07	19.66	Line	-	6.27	9.65	0.14	9.87			
QP	3.769M	21.74	56.00	-34.26	19.72	Line	-	2.02	9.66	0.18	9.88			
AV	3.769M	17.85	46.00	-28.15	19.72	Line	-	-1.87	9.66	0.18	9.88			
QP	5.446M	20.42	60.00	-39.58	19.76	Line	-	0.66	9.67	0.21	9.88			
AV	5.446M	16.75	50.00	-33.25	19.76	Line	-	-3.01	9.67	0.21	9.88			

Conducted Emissions at Powerline_Mode 1

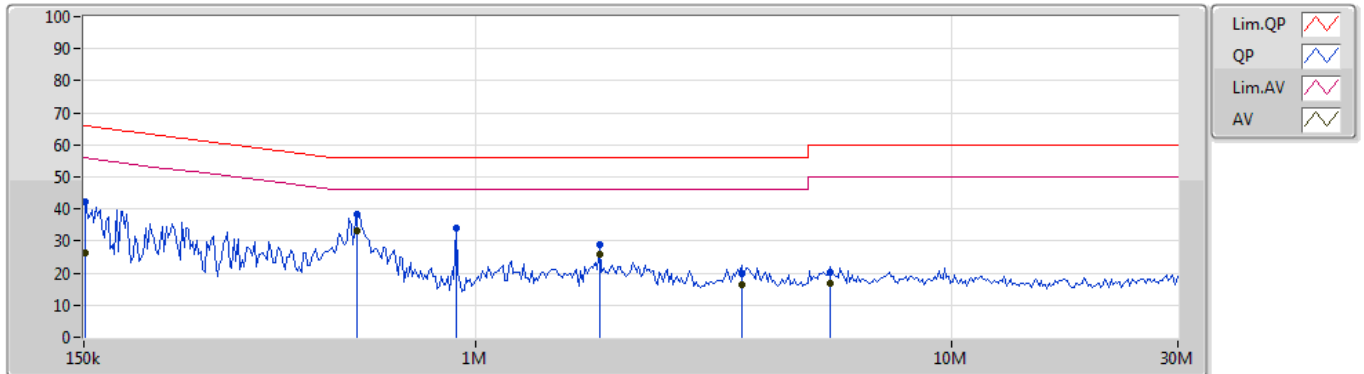
13/06/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	160.82k	41.04	65.43	-24.39	19.63	Neutral	-	21.41	9.65	0.11	9.87			
AV	160.82k	27.12	55.43	-28.31	19.63	Neutral	-	7.49	9.65	0.11	9.87			
QP	563.422k	37.90	56.00	-18.10	19.63	Neutral	-	18.27	9.63	0.13	9.87			
AV	563.422k	32.43	46.00	-13.57	19.63	Neutral	-	12.80	9.63	0.13	9.87			
QP	908.364k	34.53	56.00	-21.47	19.62	Neutral	-	14.91	9.63	0.11	9.88			
AV	908.364k	33.83	46.00	-12.17	19.62	Neutral	"Worst"	14.21	9.63	0.11	9.88			
QP	1.823M	28.46	56.00	-27.54	19.66	Neutral	-	8.80	9.65	0.14	9.87			
AV	1.823M	26.16	46.00	-19.84	19.66	Neutral	-	6.50	9.65	0.14	9.87			
QP	3.446M	22.73	56.00	-33.27	19.72	Neutral	-	3.01	9.66	0.18	9.88			
AV	3.446M	17.35	46.00	-28.65	19.72	Neutral	-	-2.37	9.66	0.18	9.88			
QP	5.286M	22.13	60.00	-37.87	19.76	Neutral	-	2.37	9.67	0.21	9.88			
AV	5.286M	18.22	50.00	-31.78	19.76	Neutral	-	-1.54	9.67	0.21	9.88			

Conducted Emissions at Powerline_Mode 2

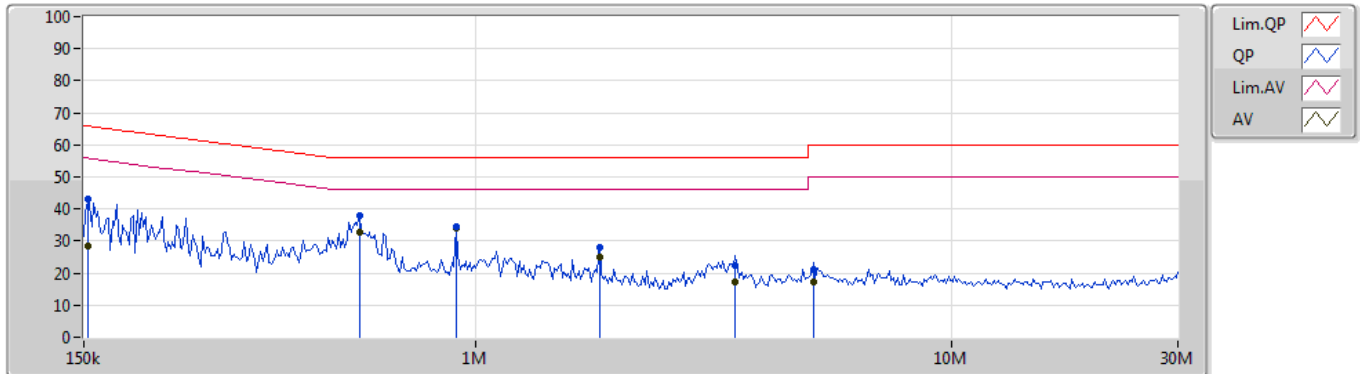
13/06/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.5k	42.28	65.92	-23.64	19.64	Line	-	22.64	9.66	0.11	9.87			
AV	151.5k	26.20	55.92	-29.72	19.64	Line	-	6.56	9.66	0.11	9.87			
QP	563.422k	38.19	56.00	-17.81	19.64	Line	-	18.55	9.64	0.13	9.87			
AV	563.422k	32.99	46.00	-13.01	19.64	Line	-	13.35	9.64	0.13	9.87			
QP	908.364k	34.11	56.00	-21.89	19.63	Line	-	14.48	9.64	0.11	9.88			
AV	908.364k	34.03	46.00	-11.97	19.63	Line	"Worst"	14.40	9.64	0.11	9.88			
QP	1.823M	28.78	56.00	-27.22	19.66	Line	-	9.12	9.65	0.14	9.87			
AV	1.823M	25.76	46.00	-20.24	19.66	Line	-	6.10	9.65	0.14	9.87			
QP	3.622M	20.00	56.00	-36.00	19.72	Line	-	0.28	9.66	0.18	9.88			
AV	3.622M	16.27	46.00	-29.73	19.72	Line	-	-3.45	9.66	0.18	9.88			
QP	5.556M	20.37	60.00	-39.63	19.76	Line	-	0.61	9.67	0.21	9.88			
AV	5.556M	16.80	50.00	-33.20	19.76	Line	-	-2.96	9.67	0.21	9.88			

Conducted Emissions at Powerline_Mode 2

13/06/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.015k	43.09	65.83	-22.74	19.63	Neutral	-	23.46	9.65	0.11	9.87			
AV	153.015k	28.25	55.83	-27.58	19.63	Neutral	-	8.62	9.65	0.11	9.87			
QP	569.056k	37.97	56.00	-18.03	19.63	Neutral	-	18.34	9.63	0.13	9.87			
AV	569.056k	32.91	46.00	-13.09	19.63	Neutral	-	13.28	9.63	0.13	9.87			
QP	908.364k	34.62	56.00	-21.38	19.62	Neutral	-	15.00	9.63	0.11	9.88			
AV	908.364k	33.94	46.00	-12.06	19.62	Neutral	"Worst"	14.32	9.63	0.11	9.88			
QP	1.823M	27.88	56.00	-28.12	19.66	Neutral	-	8.22	9.65	0.14	9.87			
AV	1.823M	25.13	46.00	-20.87	19.66	Neutral	-	5.47	9.65	0.14	9.87			
QP	3.515M	22.29	56.00	-33.71	19.72	Neutral	-	2.57	9.66	0.18	9.88			
AV	3.515M	17.06	46.00	-28.94	19.72	Neutral	-	-2.66	9.66	0.18	9.88			
QP	5.131M	21.16	60.00	-38.84	19.75	Neutral	-	1.41	9.67	0.20	9.88			
AV	5.131M	17.26	50.00	-32.74	19.75	Neutral	-	-2.49	9.67	0.20	9.88			

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(Port2)	9.025M	12.354M	12M4G1D	8.55M	12.214M
802.11g_Nss1,(6Mbps)_1TX(Port2)	16.3M	16.892M	16M9D1D	16M	16.512M
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	17.3M	17.851M	17M9D1D	16.5M	17.671M

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

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

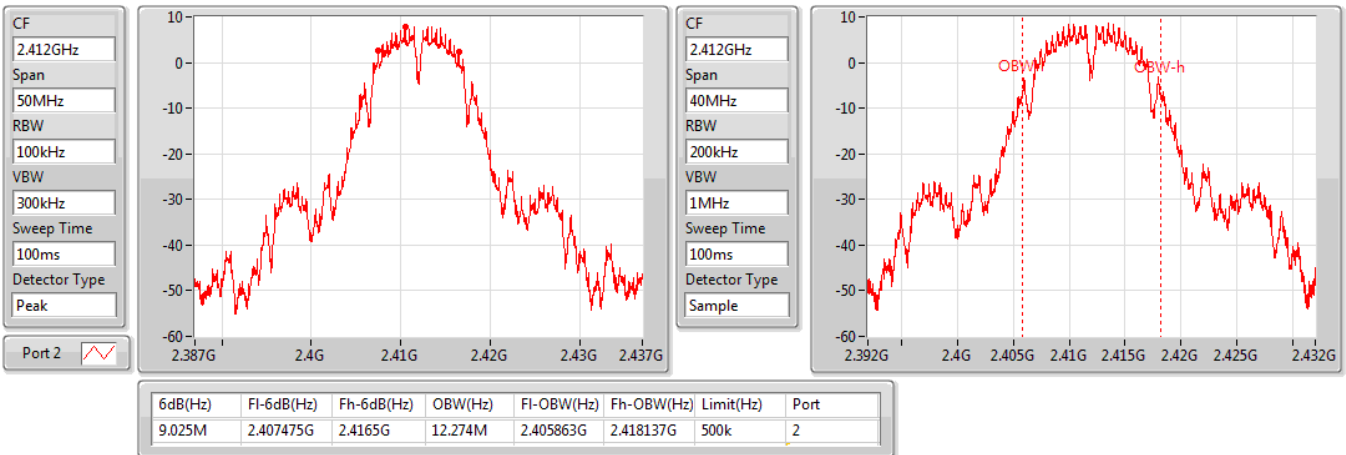
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX(Port2)	-	-	-	-	-	-
2412MHz	Pass	500k	-	-	9.025M	12.274M
2437MHz	Pass	500k	-	-	8.55M	12.354M
2462MHz	Pass	500k	-	-	8.55M	12.214M
802.11g_Nss1,(6Mbps)_1TX(Port2)	-	-	-	-	-	-
2412MHz	Pass	500k	-	-	16.275M	16.552M
2437MHz	Pass	500k	-	-	16M	16.892M
2462MHz	Pass	500k	-	-	16.3M	16.512M
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-
2412MHz	Pass	500k	-	-	17.275M	17.691M
2437MHz	Pass	500k	-	-	16.5M	17.851M
2462MHz	Pass	500k	-	-	17.3M	17.671M

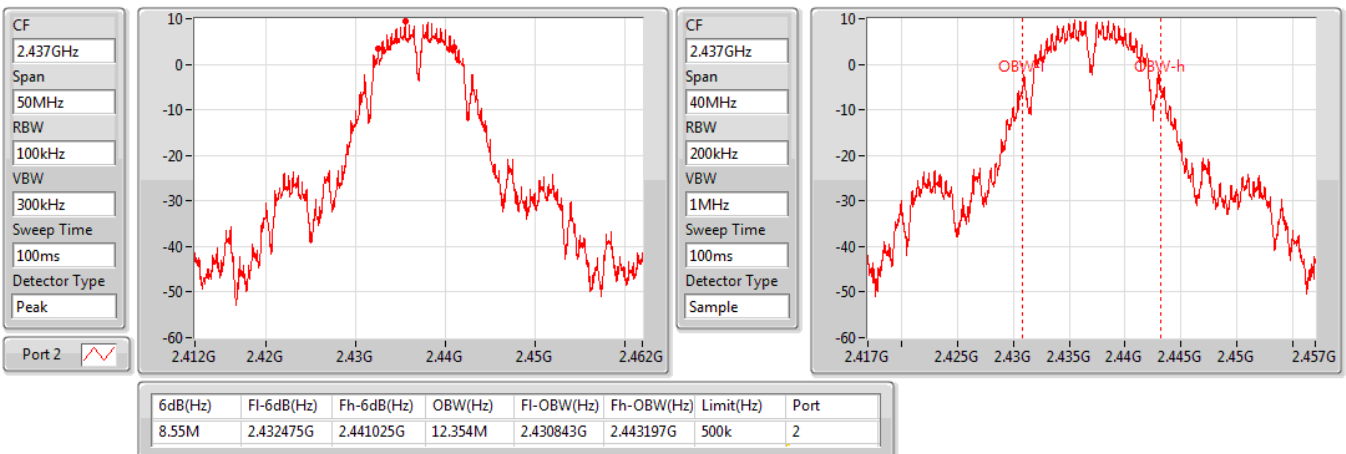
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_1TX(Port2)
EBW
2412MHz

10/06/2020

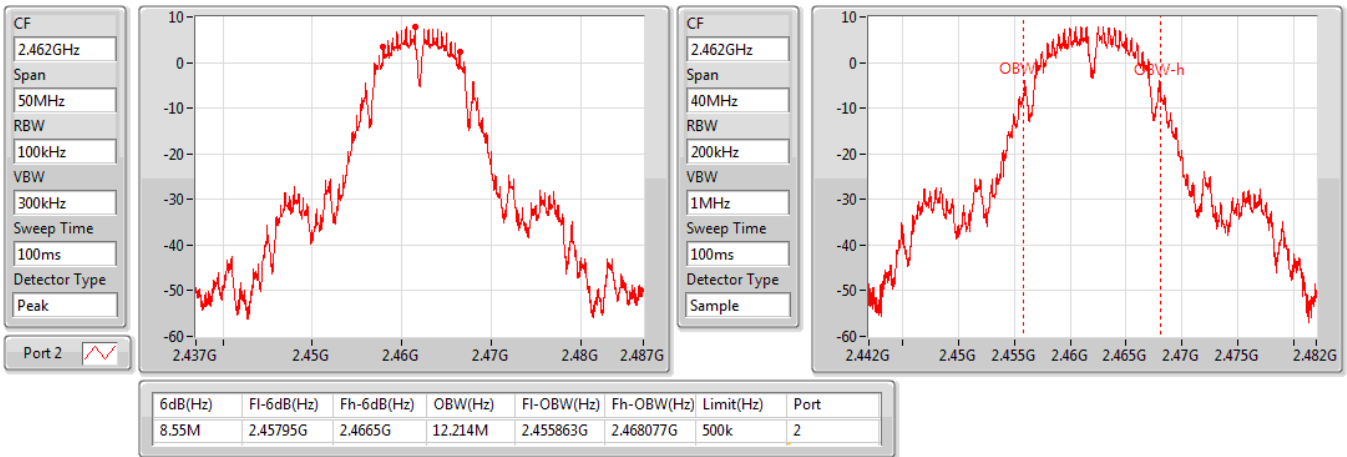

802.11b_Nss1,(1Mbps)_1TX(Port2)
EBW
2437MHz

10/06/2020

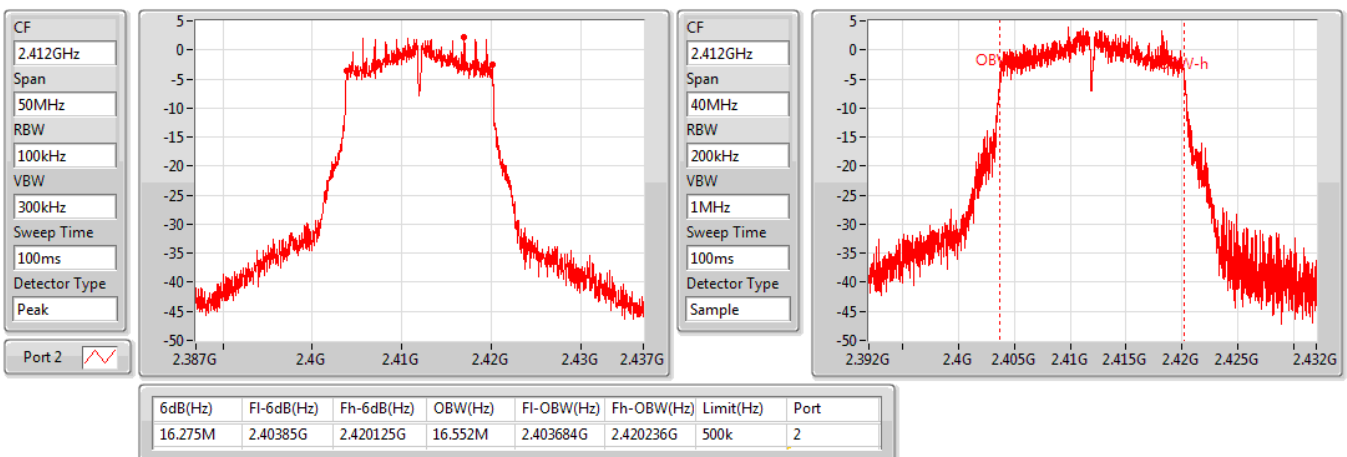


802.11b_Nss1,(1Mbps)_1TX(Port2)
EBW
2462MHz

10/06/2020

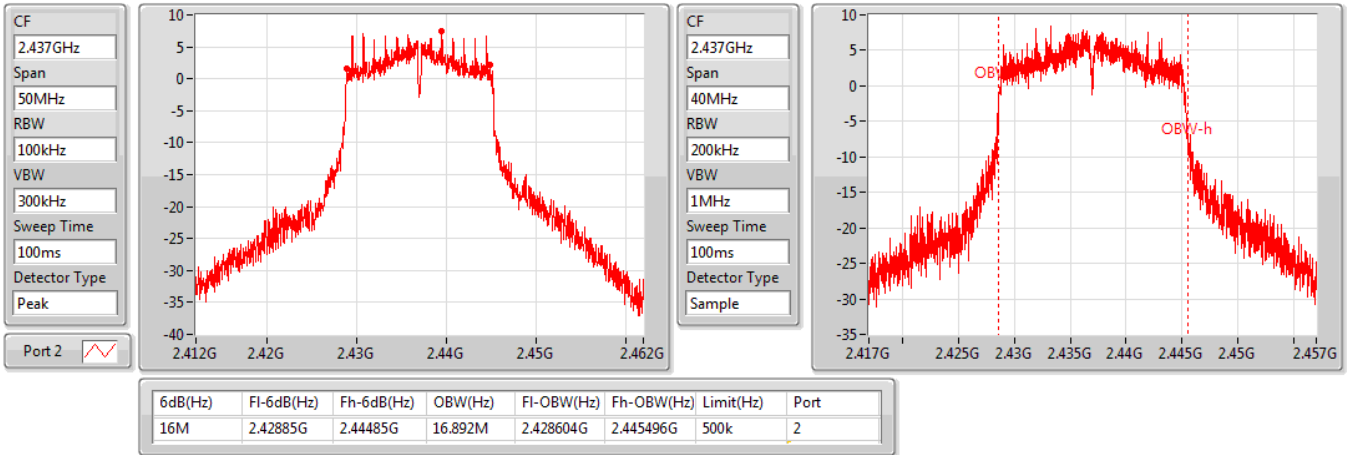

802.11g_Nss1,(6Mbps)_1TX(Port2)
EBW
2412MHz

10/06/2020

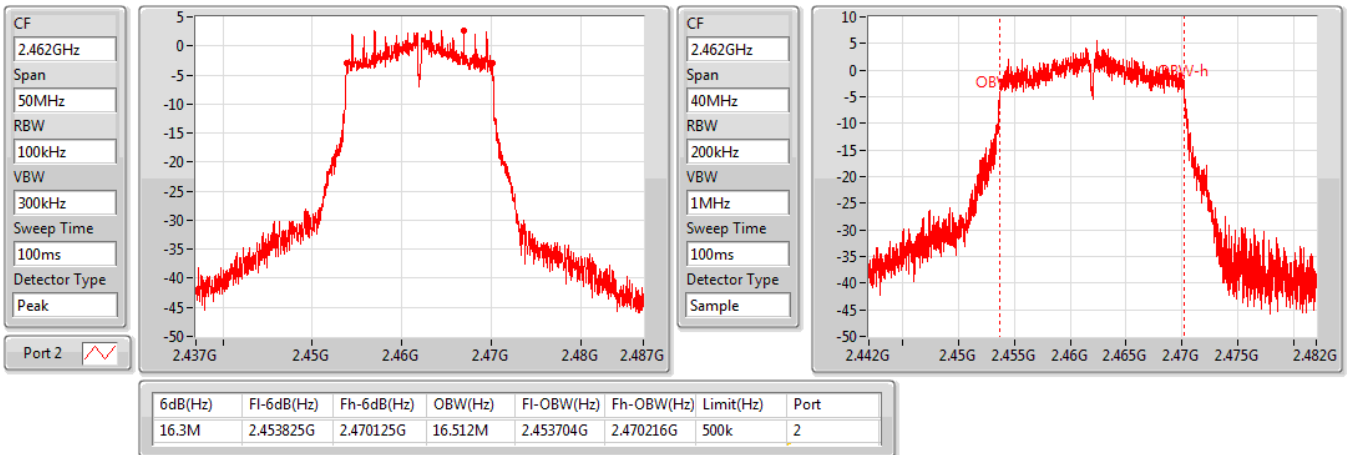


802.11g_Nss1,(6Mbps)_1TX(Port2)
EBW
2437MHz

10/06/2020

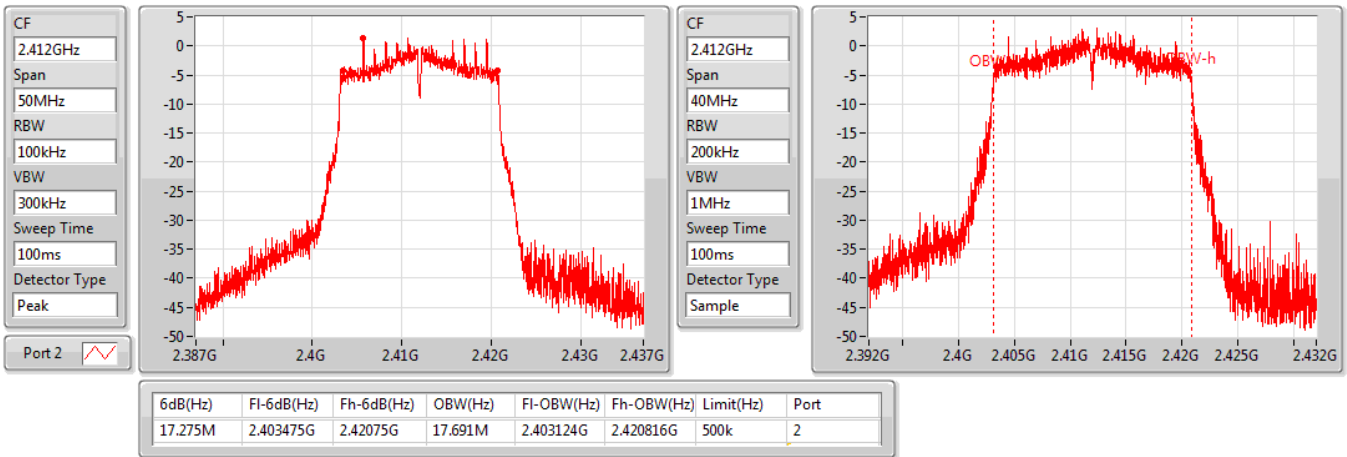

802.11g_Nss1,(6Mbps)_1TX(Port2)
EBW
2462MHz

10/06/2020

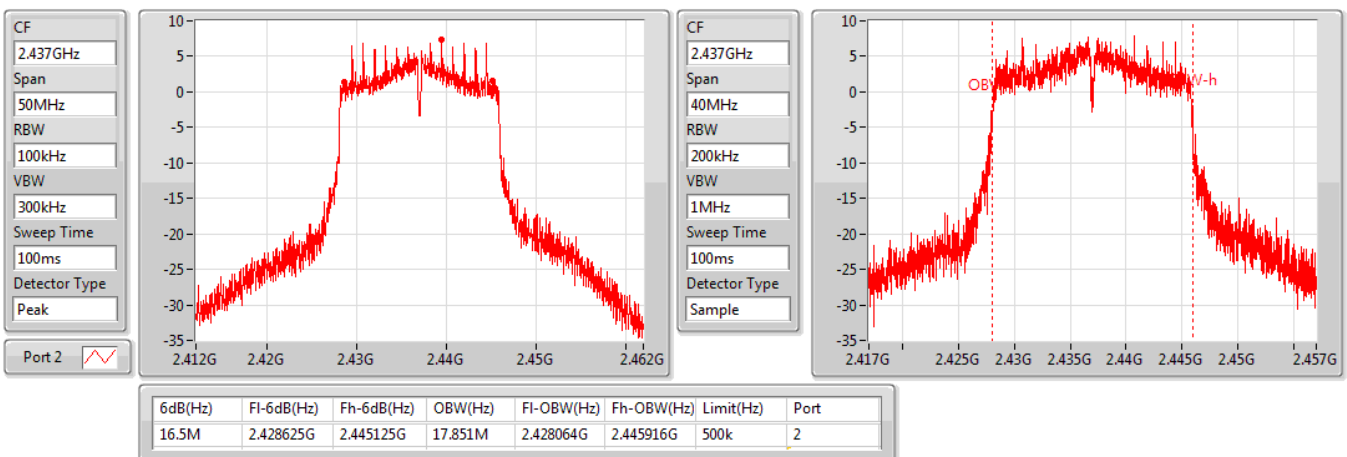


802.11n HT20_Nss1,(MCS0)_1TX(Port2)
EBW
2412MHz

10/06/2020


802.11n HT20_Nss1,(MCS0)_1TX(Port2)
EBW
2437MHz

10/06/2020

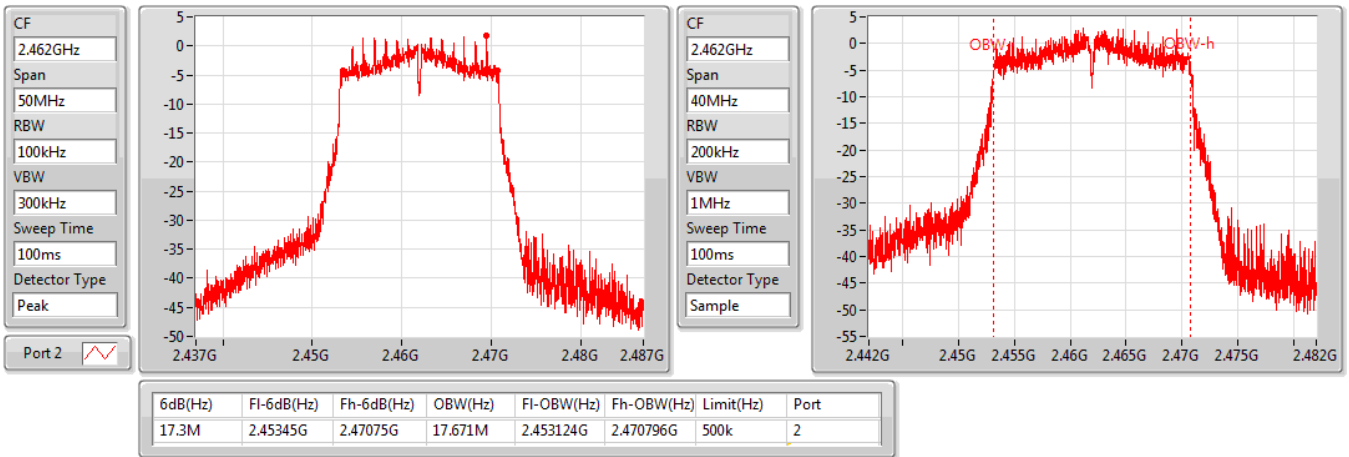


802.11n HT20_Nss1,(MCS0)_1TX(Port2)

EBW

2462MHz

10/06/2020





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX(Port2)	18.62	0.07278
802.11g_Nss1,(6Mbps)_1TX(Port2)	18.79	0.07568
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	18.88	0.07727

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX(Port2)	-	-	-	-	-	-
2412MHz	Pass	3.15	-	17.50	17.50	30.00
2417MHz	Pass	3.15	-	18.28	18.28	30.00
2437MHz	Pass	3.15	-	18.51	18.51	30.00
2457MHz	Pass	3.15	-	18.62	18.62	30.00
2462MHz	Pass	3.15	-	16.90	16.90	30.00
802.11g_Nss1,(6Mbps)_1TX(Port2)	-	-	-	-	-	-
2412MHz	Pass	3.15	-	14.47	14.47	30.00
2417MHz	Pass	3.15	-	15.72	15.72	30.00
2437MHz	Pass	3.15	-	18.79	18.79	30.00
2457MHz	Pass	3.15	-	16.66	16.66	30.00
2462MHz	Pass	3.15	-	15.21	15.21	30.00
802.11n_HT20_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-
2412MHz	Pass	3.15	-	13.91	13.91	30.00
2417MHz	Pass	3.15	-	16.75	16.75	30.00
2437MHz	Pass	3.15	-	18.88	18.88	30.00
2457MHz	Pass	3.15	-	16.48	16.48	30.00
2462MHz	Pass	3.15	-	13.94	13.94	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(Port2)	-5.54
802.11g_Nss1,(6Mbps)_1TX(Port2)	-5.85
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	-6.92

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX(Port2)	-	-	-	-	-	-
2412MHz	Pass	3.15	-	-6.87	-6.87	8.00
2437MHz	Pass	3.15	-	-5.54	-5.54	8.00
2462MHz	Pass	3.15	-	-6.67	-6.67	8.00
802.11g_Nss1,(6Mbps)_1TX(Port2)	-	-	-	-	-	-
2412MHz	Pass	3.15	-	-10.31	-10.31	8.00
2437MHz	Pass	3.15	-	-5.85	-5.85	8.00
2462MHz	Pass	3.15	-	-9.01	-9.01	8.00
802.11n_HT20_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-
2412MHz	Pass	3.15	-	-11.94	-11.94	8.00
2437MHz	Pass	3.15	-	-6.92	-6.92	8.00
2462MHz	Pass	3.15	-	-10.66	-10.66	8.00

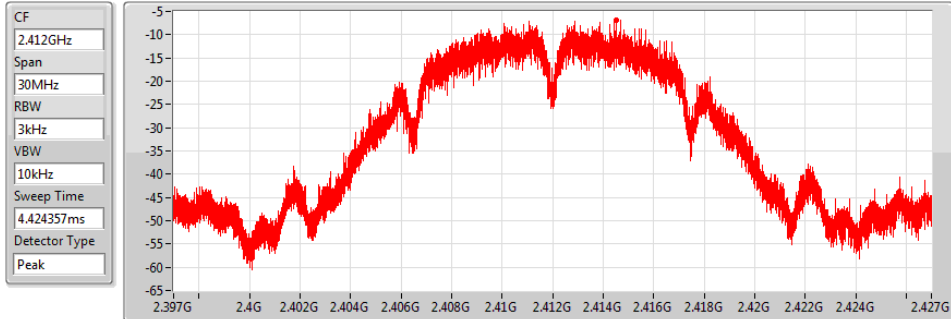
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_1TX(Port2)

PSD

2412MHz

10/06/2020



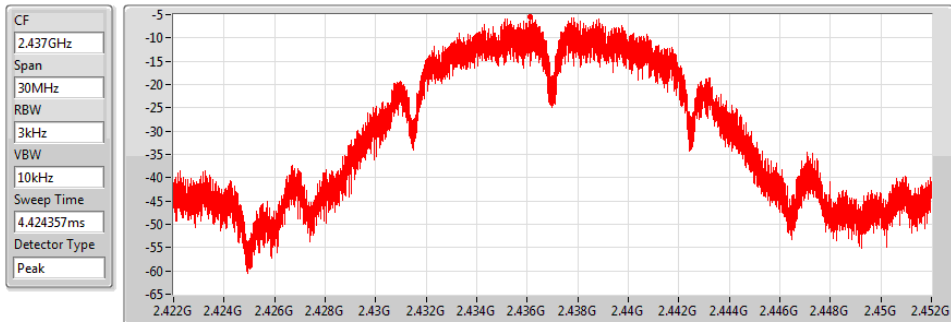
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.87	-6.87	-	-6.87

802.11b_Nss1,(1Mbps)_1TX(Port2)

PSD

2437MHz

10/06/2020



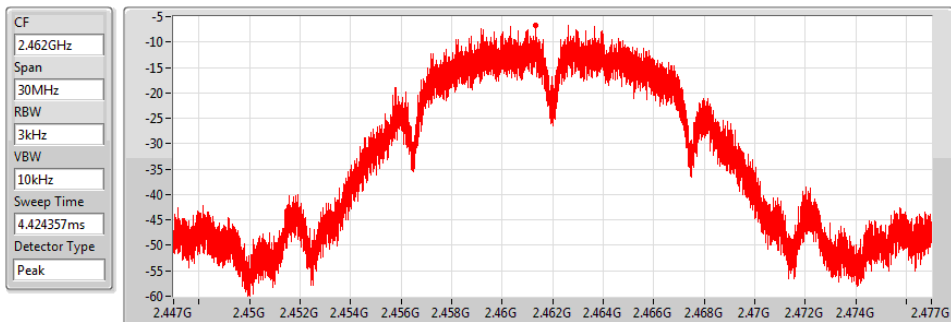
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.54	-5.54	-	-5.54

802.11b_Nss1,(1Mbps)_1TX(Port2)

PSD

2462MHz

10/06/2020



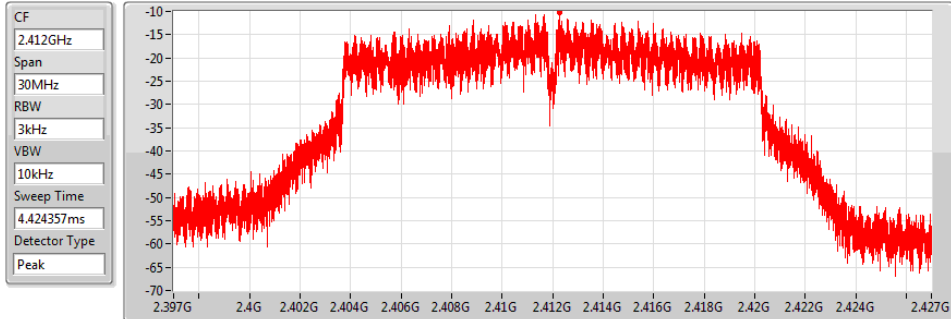
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.67	-6.67	-	-6.67

802.11g_Nss1,(6Mbps)_1TX(Port2)

PSD

2412MHz

10/06/2020



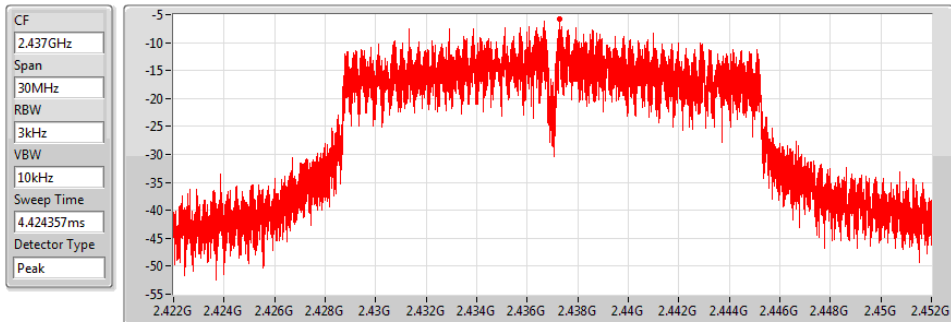
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-10.31	-10.31	-	-10.31

802.11g_Nss1,(6Mbps)_1TX(Port2)

PSD

2437MHz

10/06/2020



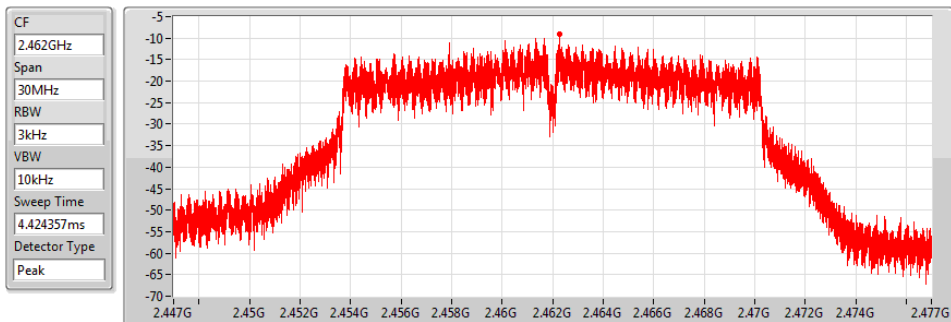
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-5.85	-5.85	-	-5.85

802.11g_Nss1,(6Mbps)_1TX(Port2)

PSD

2462MHz

10/06/2020



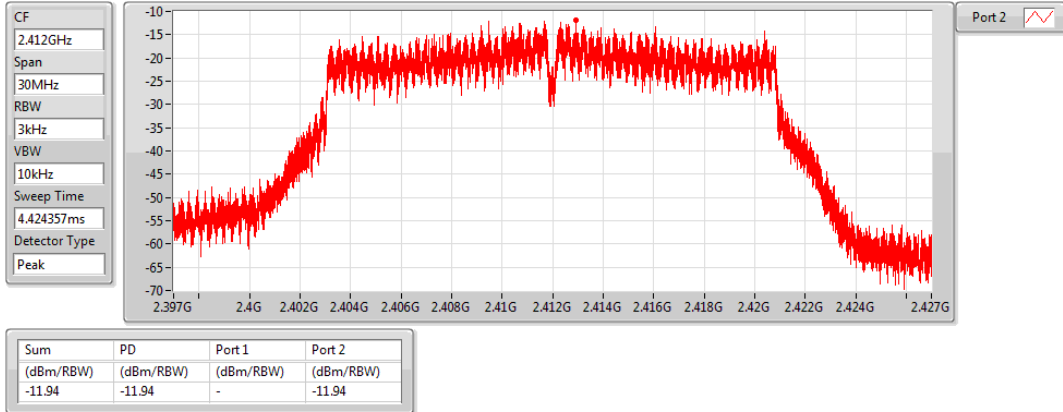
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-9.01	-9.01	-	-9.01

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

PSD

2412MHz

10/06/2020

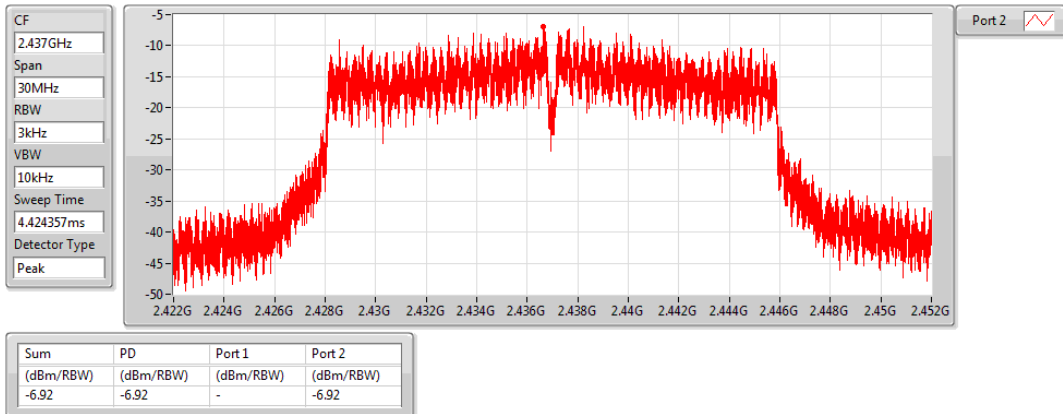


802.11n HT20_Nss1,(MCS0)_1TX(Port2)

PSD

2437MHz

10/06/2020

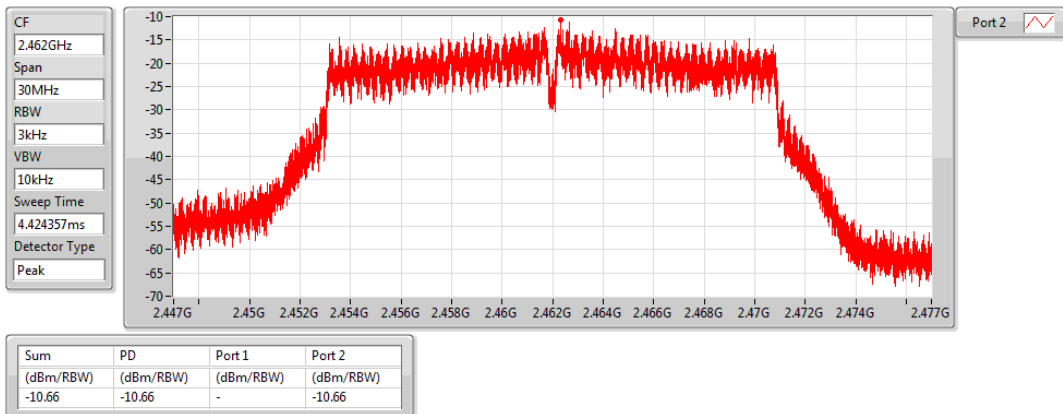


802.11n HT20_Nss1,(MCS0)_1TX(Port2)

PSD

2462MHz

10/06/2020





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(Port2)	Pass	2.43845G	9.33	-20.67	2.17768G	-55.60	2.39802G	-27.04	2.4G	-37.32	2.48714G	-51.37	24.64038G	-41.69	2
802.11g_Nss1,(6Mbps)_1TX(Port2)	Pass	2.43945G	7.03	-22.97	2.03205G	-55.39	2.39946G	-29.48	2.4G	-32.45	2.48718G	-52.33	23.59803G	-42.24	2
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	Pass	2.4395G	7.19	-22.81	2.19108G	-55.57	2.39982G	-29.56	2.4G	-33.51	2.48952G	-52.87	21.41219G	-42.22	2

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43845G	9.33	-20.67	2.17768G	-55.60	2.39802G	-27.04	2.4G	-37.32	2.48714G	-51.37	24.64038G	-41.69	2
2437MHz	Pass	2.43845G	9.33	-20.67	2.11914G	-55.44	2.39996G	-53.43	2.4G	-55.16	2.51432G	-50.81	24.89605G	-42.37	2
2462MHz	Pass	2.43845G	9.33	-20.67	874.04M	-55.29	2.39742G	-52.57	2.4835G	-43.11	2.48352G	-44.26	23.34517G	-41.61	2
802.11g_Nss1,(6Mbps)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43945G	7.03	-22.97	2.03205G	-55.39	2.39946G	-29.48	2.4G	-32.45	2.48718G	-52.33	23.59803G	-42.24	2
2437MHz	Pass	2.43945G	7.03	-22.97	2.13341G	-55.95	2.39952G	-41.91	2.4G	-42.86	2.4841G	-46.94	15.15248G	-41.73	2
2462MHz	Pass	2.43945G	7.03	-22.97	1.73207G	-55.69	2.39282G	-54.38	2.4835G	-39.18	2.48354G	-37.95	23.29741G	-41.46	2
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4395G	7.19	-22.81	2.19108G	-55.57	2.39982G	-29.56	2.4G	-33.51	2.48952G	-52.87	21.41219G	-42.22	2
2437MHz	Pass	2.4395G	7.19	-22.81	909.87M	-54.91	2.39948G	-37.27	2.4G	-41.54	2.48436G	-44.62	24.07846G	-42.22	2
2462MHz	Pass	2.4395G	7.19	-22.81	2.09438G	-55.45	2.3904G	-53.92	2.4835G	-44.15	2.48362G	-39.40	23.53622G	-42.08	2

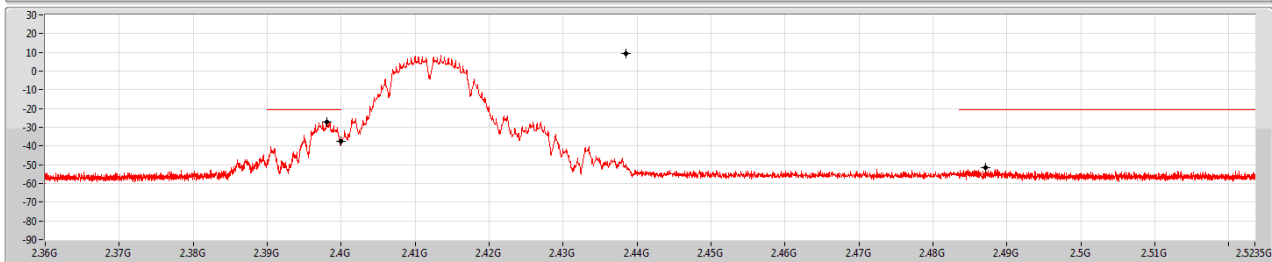
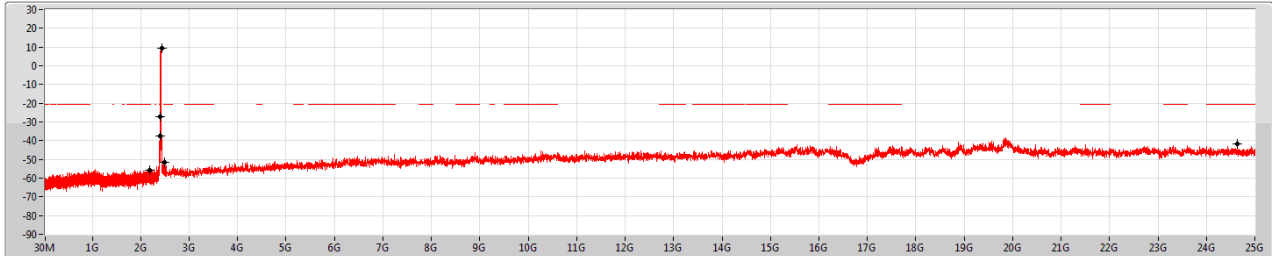
802.11b_Nss1,(1Mbps)_1TX(Port2)

2412MHz

CSEndB

10/06/2020

Port 2



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
2.43845G	9.33	-20.67	2.17768G	-55.60	2.39802G	-27.04	2.4G	-37.32	2.48714G	-51.37	2.64038G	-41.69	2

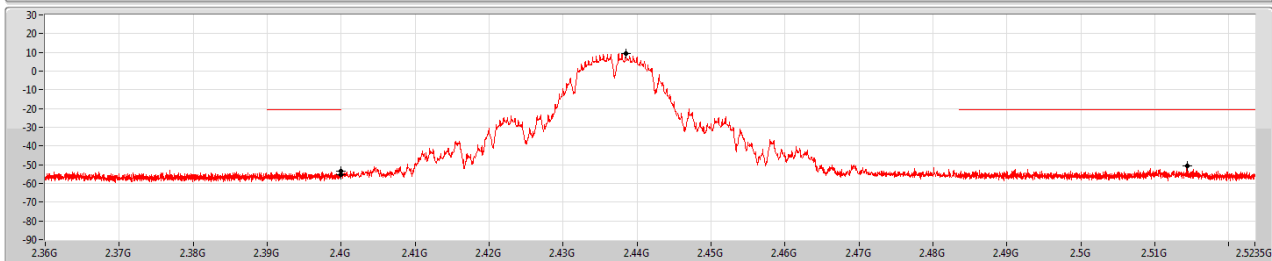
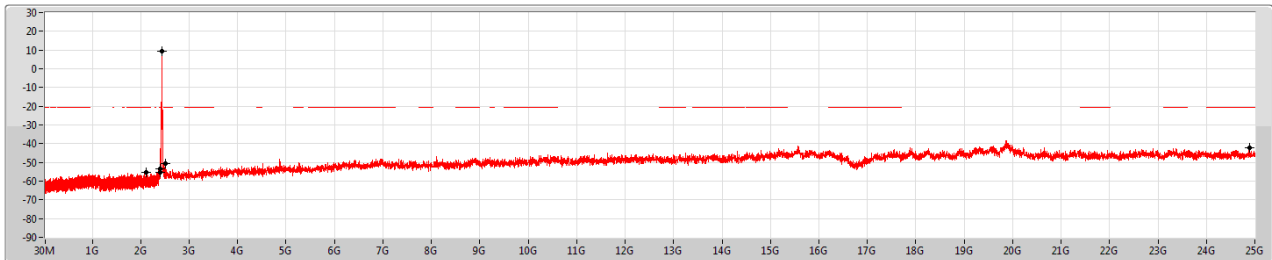
802.11b_Nss1,(1Mbps)_1TX(Port2)

2437MHz

CSEndB

10/06/2020

Port 2



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
2.43845G	9.33	-20.67	2.11914G	-55.44	2.39996G	-53.43	2.4G	-55.16	2.51432G	-50.81	2.69605G	-42.37	2

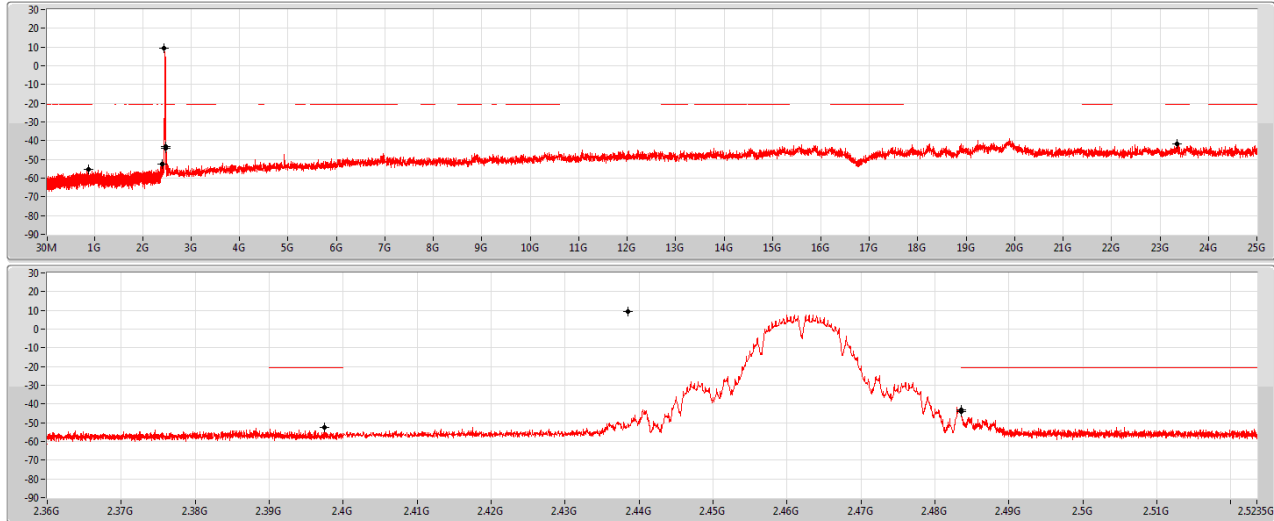
802.11b_Nss1,(1Mbps)_1TX(Port2)

2462MHz

CSEndB

10/06/2020

Port 2



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
2.43845G	9.33	-20.67	874.04M	-55.29	2.39742G	-52.57	2.4835G	-43.11	2.48352G	-44.26	23.34517G	-41.61	2

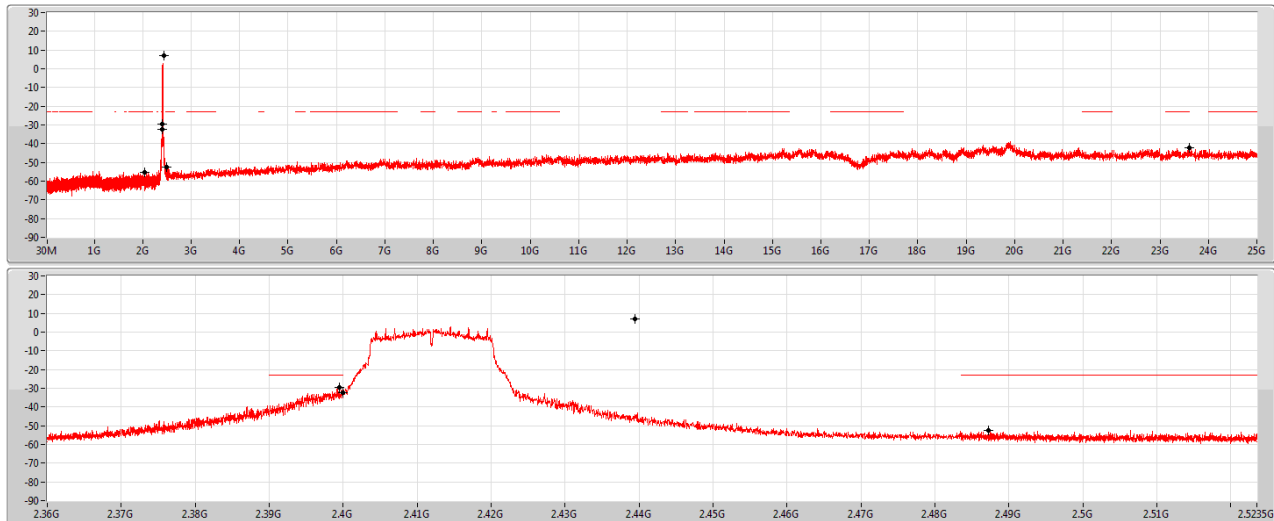
802.11g_Nss1,(6Mbps)_1TX(Port2)

2412MHz

CSEndB

10/06/2020

Port 2



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
2.43945G	7.03	-22.97	2.03205G	-55.39	2.39946G	-29.48	2.4G	-32.45	2.48718G	-52.33	23.59803G	-42.24	2

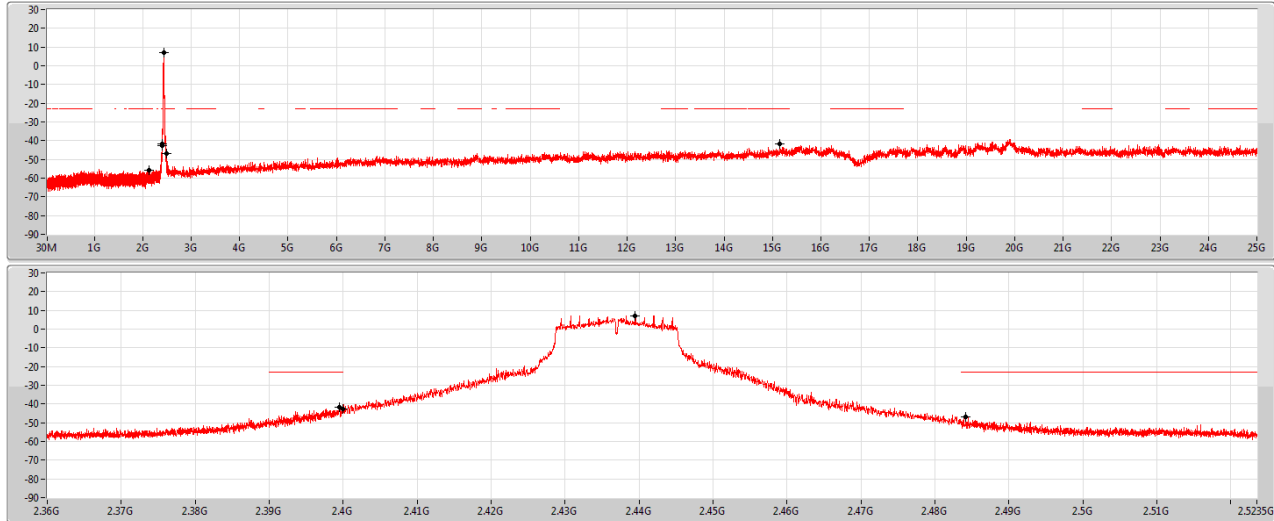
802.11g_Nss1,(6Mbps)_1TX(Port2)

2437MHz

CSENdB

10/06/2020

Port 2



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
2.43945G	7.03	-22.97	2.13341G	-55.95	2.39952G	-41.91	2.4G	-42.86	2.4841G	-46.94	15.15248G	-41.73	2

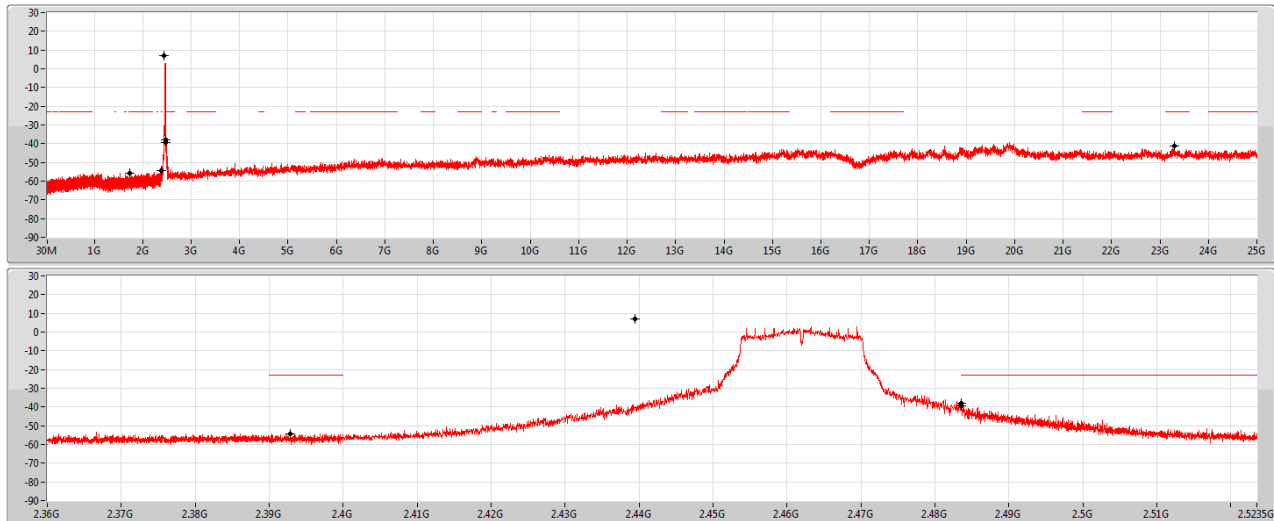
802.11g_Nss1,(6Mbps)_1TX(Port2)

2462MHz

CSENdB

10/06/2020

Port 2



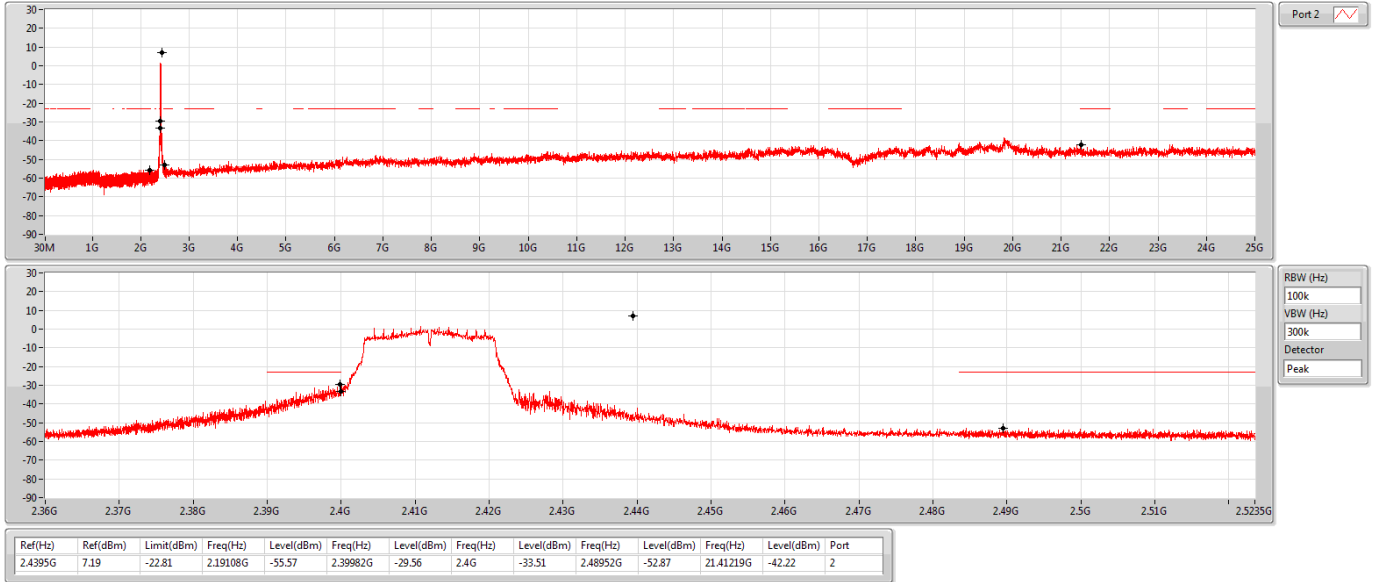
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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
2.43945G	7.03	-22.97	1.73207G	-55.69	2.39282G	-54.38	2.4835G	-39.18	2.48354G	-37.95	23.29741G	-41.46	2

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

CSENdB

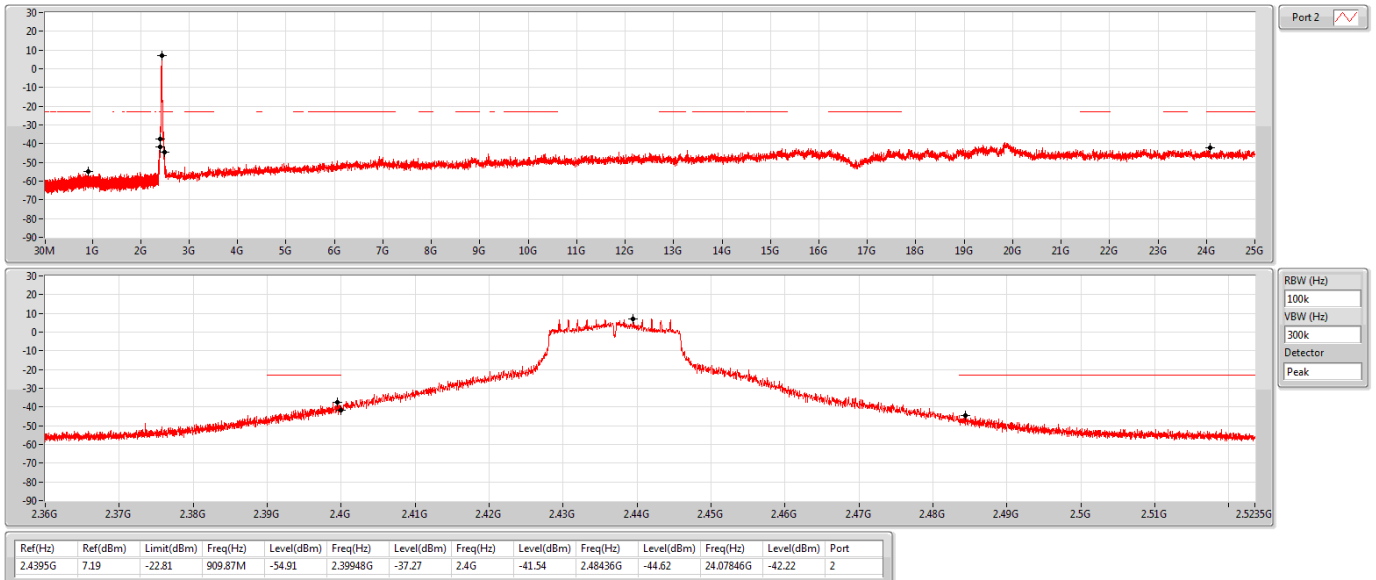
2412MHz



802.11n HT20_Nss1,(MCS0)_1TX(Port2)

CSENdB

2437MHz

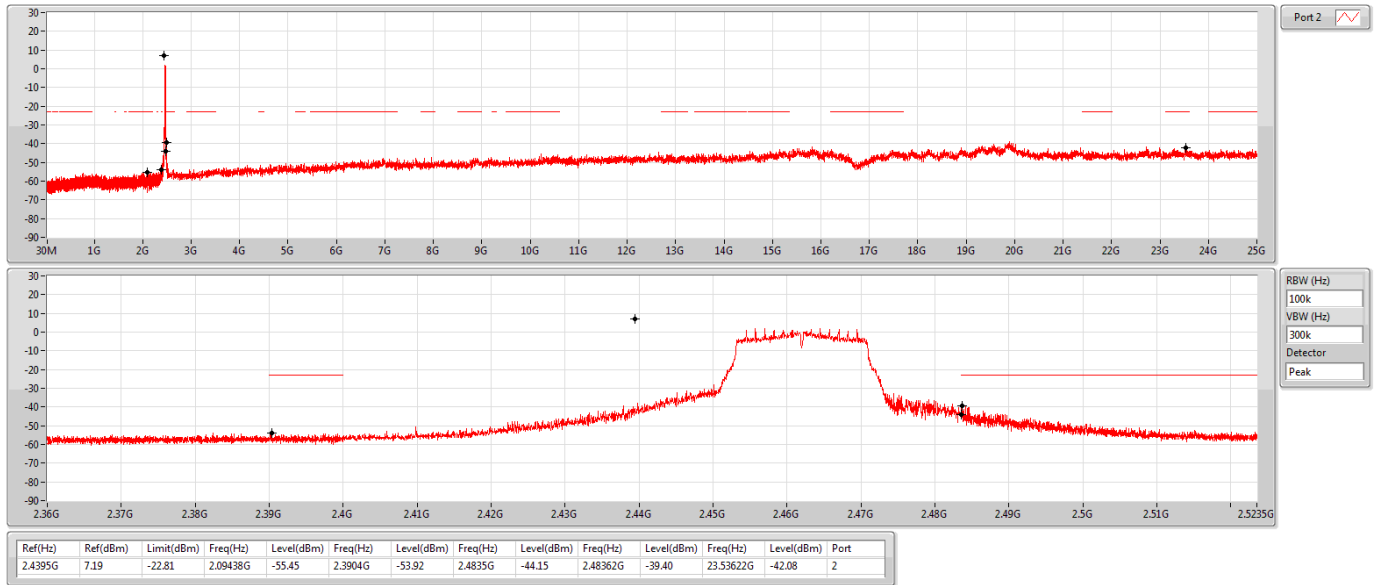


802.11n HT20_Nss1,(MCS0)_1TX(Port2)

CSEndB

2462MHz

10/06/2020





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	Pass	PK	355.92M	35.79	46.00	-10.21	3	Horizontal	0	1.00	-

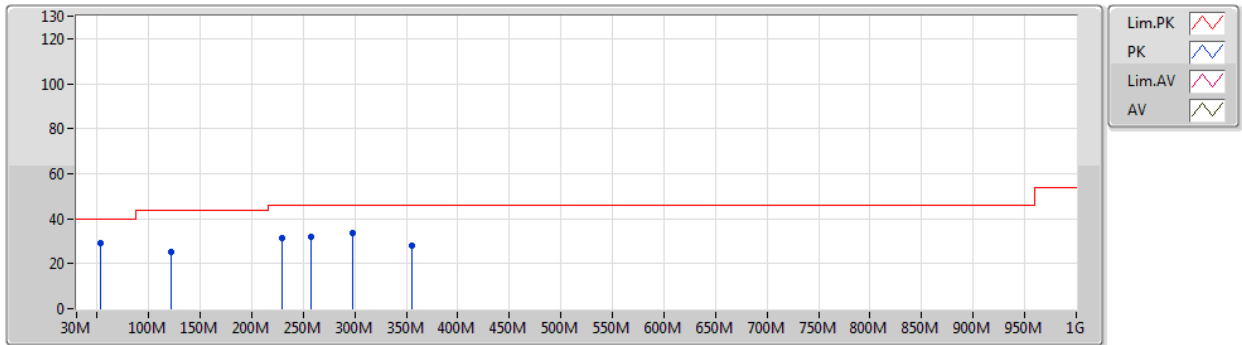
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	53.28M	29.27	40.00	-10.73	3	Vertical	360	1.00	-
2437MHz	Pass	PK	121.18M	25.19	43.50	-18.31	3	Vertical	360	1.00	-
2437MHz	Pass	PK	229.82M	31.20	46.00	-14.80	3	Vertical	360	1.00	-
2437MHz	Pass	PK	256.98M	31.80	46.00	-14.20	3	Vertical	360	1.00	-
2437MHz	Pass	PK	297.72M	33.86	46.00	-12.14	3	Vertical	360	1.00	-
2437MHz	Pass	PK	355.92M	28.27	46.00	-17.73	3	Vertical	360	1.00	-
2437MHz	Pass	PK	59.1M	26.45	40.00	-13.55	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	181.32M	27.62	43.50	-15.88	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	268.62M	34.05	46.00	-11.95	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	286.08M	33.10	46.00	-12.90	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	355.92M	35.79	46.00	-10.21	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	555.74M	30.33	46.00	-15.67	3	Horizontal	0	1.00	-

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

12/06/2020

2437MHz_Switching power supply

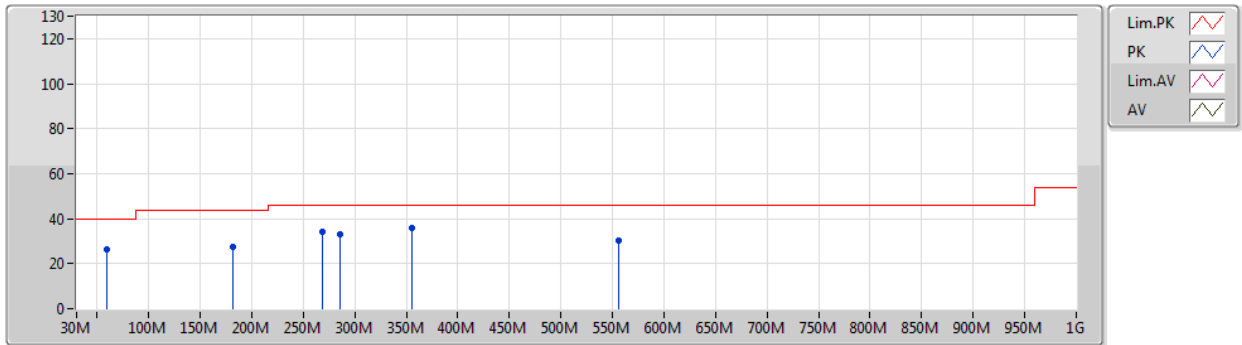


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	53.28M	29.27	40.00	-10.73	-24.58	3	Vertical	360	1.00	-	53.85	11.99	0.57	37.14
PK	121.18M	25.19	43.50	-18.31	-19.13	3	Vertical	360	1.00	-	44.32	16.57	0.81	36.51
PK	229.82M	31.20	46.00	-14.80	-19.94	3	Vertical	360	1.00	-	51.14	15.24	1.22	36.40
PK	256.98M	31.80	46.00	-14.20	-16.37	3	Vertical	360	1.00	-	48.17	18.75	1.31	36.43
PK	297.72M	33.86	46.00	-12.14	-16.77	3	Vertical	360	1.00	-	50.63	18.21	1.40	36.38
PK	355.92M	28.27	46.00	-17.73	-15.41	3	Vertical	360	1.00	-	43.68	19.61	1.52	36.54

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

12/06/2020

2437MHz_Switching power supply



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	59.1M	26.45	40.00	-13.55	-25.79	3	Horizontal	0	1.00	-	52.24	10.69	0.60	37.08
PK	181.32M	27.62	43.50	-15.88	-21.24	3	Horizontal	0	1.00	-	48.86	14.06	1.10	36.40
PK	268.62M	34.05	46.00	-11.95	-16.69	3	Horizontal	0	1.00	-	50.74	18.41	1.34	36.44
PK	286.08M	33.10	46.00	-12.90	-17.07	3	Horizontal	0	1.00	-	50.17	18.03	1.37	36.47
PK	355.92M	35.79	46.00	-10.21	-15.41	3	Horizontal	0	1.00	-	51.20	19.61	1.52	36.54
PK	555.74M	30.33	46.00	-15.67	-10.32	3	Horizontal	0	1.00	-	40.65	24.76	2.02	37.10

**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(Port2)	Pass	AV	2.4835G	51.74	54.00	-2.26	3	Horizontal	272	1.10	-
802.11g_Nss1,(6Mbps)_1TX(Port2)	Pass	AV	2.4835G	53.70	54.00	-0.30	3	Horizontal	274	1.26	-
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	Pass	PK	2.4838G	73.57	74.00	-0.43	3	Vertical	150	2.84	-

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(Port2)	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3892G	48.69	54.00	-5.31	3	Vertical	156	2.07	-
2412MHz	Pass	AV	2.4138G	102.93	Inf	-Inf	3	Vertical	156	2.07	-
2412MHz	Pass	PK	2.3894G	58.59	74.00	-15.41	3	Vertical	156	2.07	-
2412MHz	Pass	PK	2.4128G	105.87	Inf	-Inf	3	Vertical	156	2.07	-
2412MHz	Pass	AV	2.39G	50.55	54.00	-3.45	3	Horizontal	275	1.07	-
2412MHz	Pass	AV	2.4112G	105.44	Inf	-Inf	3	Horizontal	275	1.07	-
2412MHz	Pass	PK	2.3872G	60.47	74.00	-13.53	3	Horizontal	275	1.07	-
2412MHz	Pass	PK	2.411G	108.26	Inf	-Inf	3	Horizontal	275	1.07	-
2412MHz	Pass	AV	4.82402G	36.05	54.00	-17.95	3	Vertical	208	1.54	-
2412MHz	Pass	PK	4.82396G	47.08	74.00	-26.92	3	Vertical	208	1.54	-
2412MHz	Pass	AV	4.82395G	36.73	54.00	-17.27	3	Horizontal	262	1.79	-
2412MHz	Pass	PK	4.82408G	48.24	74.00	-25.76	3	Horizontal	262	1.79	-
2417MHz	Pass	AV	2.39G	45.75	54.00	-8.25	3	Vertical	150	2.88	-
2417MHz	Pass	AV	2.4152G	105.66	Inf	-Inf	3	Vertical	150	2.88	-
2417MHz	Pass	PK	2.373G	58.97	74.00	-15.03	3	Vertical	150	2.88	-
2417MHz	Pass	PK	2.416G	108.46	Inf	-Inf	3	Vertical	150	2.88	-
2417MHz	Pass	AV	2.39G	45.67	54.00	-8.33	3	Horizontal	273	1.50	-
2417MHz	Pass	AV	2.4186G	104.85	Inf	-Inf	3	Horizontal	273	1.50	-
2417MHz	Pass	PK	2.3856G	57.86	74.00	-16.14	3	Horizontal	273	1.50	-
2417MHz	Pass	PK	2.4178G	107.54	Inf	-Inf	3	Horizontal	273	1.50	-
2437MHz	Pass	AV	2.365G	44.62	54.00	-9.38	3	Vertical	158	2.09	-
2437MHz	Pass	AV	2.4386G	104.12	Inf	-Inf	3	Vertical	158	2.09	-
2437MHz	Pass	AV	2.5142G	45.29	54.00	-8.71	3	Vertical	158	2.09	-
2437MHz	Pass	PK	2.3746G	58.23	74.00	-15.77	3	Vertical	158	2.09	-
2437MHz	Pass	PK	2.4362G	106.87	Inf	-Inf	3	Vertical	158	2.09	-
2437MHz	Pass	PK	2.513G	58.40	74.00	-15.60	3	Vertical	158	2.09	-
2437MHz	Pass	AV	2.361G	44.74	54.00	-9.26	3	Horizontal	272	1.08	-
2437MHz	Pass	AV	2.435G	105.39	Inf	-Inf	3	Horizontal	272	1.08	-
2437MHz	Pass	AV	2.5126G	45.39	54.00	-8.61	3	Horizontal	272	1.08	-
2437MHz	Pass	PK	2.3598G	58.25	74.00	-15.75	3	Horizontal	272	1.08	-
2437MHz	Pass	PK	2.4362G	108.10	Inf	-Inf	3	Horizontal	272	1.08	-
2437MHz	Pass	PK	2.4906G	58.11	74.00	-15.89	3	Horizontal	272	1.08	-
2437MHz	Pass	AV	4.874G	37.45	54.00	-16.55	3	Vertical	203	1.64	-
2437MHz	Pass	PK	4.87384G	47.00	74.00	-27.00	3	Vertical	203	1.64	-
2437MHz	Pass	AV	4.87396G	38.02	54.00	-15.98	3	Horizontal	258	1.80	-
2437MHz	Pass	PK	4.87365G	48.16	74.00	-25.84	3	Horizontal	258	1.80	-
2457MHz	Pass	AV	2.4586G	104.57	Inf	-Inf	3	Vertical	160	2.04	-
2457MHz	Pass	AV	2.4835G	50.11	54.00	-3.89	3	Vertical	160	2.04	-
2457MHz	Pass	PK	2.456G	107.34	Inf	-Inf	3	Vertical	160	2.04	-
2457MHz	Pass	PK	2.4835G	60.25	74.00	-13.75	3	Vertical	160	2.04	-
2457MHz	Pass	AV	2.4552G	105.81	Inf	-Inf	3	Horizontal	275	1.25	-
2457MHz	Pass	AV	2.4835G	50.75	54.00	-3.25	3	Horizontal	275	1.25	-
2457MHz	Pass	PK	2.456G	108.54	Inf	-Inf	3	Horizontal	275	1.25	-
2457MHz	Pass	PK	2.486G	60.18	74.00	-13.82	3	Horizontal	275	1.25	-
2462MHz	Pass	AV	2.4612G	103.27	Inf	-Inf	3	Vertical	160	2.04	-
2462MHz	Pass	AV	2.4835G	51.28	54.00	-2.72	3	Vertical	160	2.04	-
2462MHz	Pass	PK	2.461G	106.04	Inf	-Inf	3	Vertical	160	2.04	-

Remark :

Page No. : F2 of F53

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

042149

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	2.4835G	60.32	74.00	-13.68	3	Vertical	160	2.04	-
2462MHz	Pass	AV	2.4638G	104.09	Inf	-Inf	3	Horizontal	272	1.10	-
2462MHz	Pass	AV	2.4835G	51.74	54.00	-2.26	3	Horizontal	272	1.10	-
2462MHz	Pass	PK	2.4628G	106.88	Inf	-Inf	3	Horizontal	272	1.10	-
2462MHz	Pass	PK	2.4835G	60.56	74.00	-13.44	3	Horizontal	272	1.10	-
2462MHz	Pass	AV	4.92399G	38.98	54.00	-15.02	3	Vertical	200	1.32	-
2462MHz	Pass	PK	4.92406G	48.74	74.00	-25.26	3	Vertical	200	1.32	-
2462MHz	Pass	AV	4.924G	39.07	54.00	-14.93	3	Horizontal	265	1.77	-
2462MHz	Pass	PK	4.92396G	48.07	74.00	-25.93	3	Horizontal	265	1.77	-
802.11g_Nss1,(6Mbps)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	51.90	54.00	-2.10	3	Vertical	162	2.10	-
2412MHz	Pass	AV	2.4114G	97.82	Inf	-Inf	3	Vertical	162	2.10	-
2412MHz	Pass	PK	2.3898G	69.22	74.00	-4.78	3	Vertical	162	2.10	-
2412MHz	Pass	PK	2.4126G	106.82	Inf	-Inf	3	Vertical	162	2.10	-
2412MHz	Pass	AV	2.39G	52.64	54.00	-1.36	3	Horizontal	275	1.03	-
2412MHz	Pass	AV	2.4114G	99.81	Inf	-Inf	3	Horizontal	275	1.03	-
2412MHz	Pass	PK	2.39G	69.66	74.00	-4.34	3	Horizontal	275	1.03	-
2412MHz	Pass	PK	2.4126G	108.73	Inf	-Inf	3	Horizontal	275	1.03	-
2412MHz	Pass	AV	4.82376G	33.31	54.00	-20.69	3	Vertical	102	1.50	-
2412MHz	Pass	PK	4.81732G	46.43	74.00	-27.57	3	Vertical	102	1.50	-
2412MHz	Pass	AV	4.83028G	33.31	54.00	-20.69	3	Horizontal	12	1.50	-
2412MHz	Pass	PK	4.82664G	46.48	74.00	-27.52	3	Horizontal	12	1.50	-
2417MHz	Pass	AV	2.39G	53.38	54.00	-0.62	3	Vertical	148	2.91	-
2417MHz	Pass	AV	2.4164G	100.71	Inf	-Inf	3	Vertical	148	2.91	-
2417MHz	Pass	PK	2.3872G	68.48	74.00	-5.52	3	Vertical	148	2.91	-
2417MHz	Pass	PK	2.4176G	109.70	Inf	-Inf	3	Vertical	148	2.91	-
2417MHz	Pass	AV	2.39G	53.47	54.00	-0.53	3	Horizontal	273	1.07	-
2417MHz	Pass	AV	2.4164G	100.68	Inf	-Inf	3	Horizontal	273	1.07	-
2417MHz	Pass	PK	2.3898G	68.17	74.00	-5.83	3	Horizontal	273	1.07	-
2417MHz	Pass	PK	2.4176G	109.67	Inf	-Inf	3	Horizontal	273	1.07	-
2437MHz	Pass	AV	2.3894G	47.78	54.00	-6.22	3	Vertical	159	2.10	-
2437MHz	Pass	AV	2.4362G	101.48	Inf	-Inf	3	Vertical	159	2.10	-
2437MHz	Pass	AV	2.4838G	47.22	54.00	-6.78	3	Vertical	159	2.10	-
2437MHz	Pass	PK	2.3894G	60.29	74.00	-13.71	3	Vertical	159	2.10	-
2437MHz	Pass	PK	2.4378G	110.30	Inf	-Inf	3	Vertical	159	2.10	-
2437MHz	Pass	PK	2.5138G	59.02	74.00	-14.98	3	Vertical	159	2.10	-
2437MHz	Pass	AV	2.3898G	48.55	54.00	-5.45	3	Horizontal	274	1.36	-
2437MHz	Pass	AV	2.4362G	102.90	Inf	-Inf	3	Horizontal	274	1.36	-
2437MHz	Pass	AV	2.4835G	47.56	54.00	-6.44	3	Horizontal	274	1.36	-
2437MHz	Pass	PK	2.3878G	61.21	74.00	-12.79	3	Horizontal	274	1.36	-
2437MHz	Pass	PK	2.4374G	111.80	Inf	-Inf	3	Horizontal	274	1.36	-
2437MHz	Pass	PK	2.4966G	59.23	74.00	-14.77	3	Horizontal	274	1.36	-
2437MHz	Pass	AV	4.86844G	33.20	54.00	-20.80	3	Vertical	184	1.50	-
2437MHz	Pass	PK	4.86544G	45.48	74.00	-28.52	3	Vertical	184	1.50	-
2437MHz	Pass	AV	4.88324G	33.24	54.00	-20.76	3	Horizontal	265	1.04	-
2437MHz	Pass	PK	4.86792G	46.18	74.00	-27.82	3	Horizontal	265	1.04	-
2457MHz	Pass	AV	2.4562G	100.10	Inf	-Inf	3	Vertical	161	2.05	-
2457MHz	Pass	AV	2.4835G	53.18	54.00	-0.82	3	Vertical	161	2.05	-
2457MHz	Pass	PK	2.4576G	109.18	Inf	-Inf	3	Vertical	161	2.05	-

Remark :

Page No. : F3 of F53

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

042149

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2457MHz	Pass	PK	2.4835G	68.39	74.00	-5.61	3	Vertical	161	2.05	-
2457MHz	Pass	AV	2.4562G	101.47	Inf	-Inf	3	Horizontal	274	1.26	-
2457MHz	Pass	AV	2.4835G	53.70	54.00	-0.30	3	Horizontal	274	1.26	-
2457MHz	Pass	PK	2.4576G	109.97	Inf	-Inf	3	Horizontal	274	1.26	-
2457MHz	Pass	PK	2.4835G	70.12	74.00	-3.88	3	Horizontal	274	1.26	-
2462MHz	Pass	AV	2.4614G	98.92	Inf	-Inf	3	Vertical	160	2.02	-
2462MHz	Pass	AV	2.4836G	52.38	54.00	-1.62	3	Vertical	160	2.02	-
2462MHz	Pass	PK	2.4626G	107.98	Inf	-Inf	3	Vertical	160	2.02	-
2462MHz	Pass	PK	2.4835G	70.91	74.00	-3.09	3	Vertical	160	2.02	-
2462MHz	Pass	AV	2.4614G	99.21	Inf	-Inf	3	Horizontal	274	1.50	-
2462MHz	Pass	AV	2.4835G	52.15	54.00	-1.85	3	Horizontal	274	1.50	-
2462MHz	Pass	PK	2.4626G	108.21	Inf	-Inf	3	Horizontal	274	1.50	-
2462MHz	Pass	PK	2.4835G	70.29	74.00	-3.71	3	Horizontal	274	1.50	-
2462MHz	Pass	AV	4.92272G	33.75	54.00	-20.25	3	Vertical	200	1.50	-
2462MHz	Pass	PK	4.9276G	46.12	74.00	-27.88	3	Vertical	200	1.50	-
2462MHz	Pass	AV	4.93084G	33.60	54.00	-20.40	3	Horizontal	253	1.00	-
2462MHz	Pass	PK	4.92756G	46.73	74.00	-27.27	3	Horizontal	253	1.00	-
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	50.18	54.00	-3.82	3	Vertical	160	2.10	-
2412MHz	Pass	AV	2.4112G	96.66	Inf	-Inf	3	Vertical	160	2.10	-
2412MHz	Pass	PK	2.3896G	67.74	74.00	-6.26	3	Vertical	160	2.10	-
2412MHz	Pass	PK	2.411G	106.44	Inf	-Inf	3	Vertical	160	2.10	-
2412MHz	Pass	AV	2.39G	51.49	54.00	-2.51	3	Horizontal	275	1.08	-
2412MHz	Pass	AV	2.4124G	98.03	Inf	-Inf	3	Horizontal	275	1.08	-
2412MHz	Pass	PK	2.39G	70.82	74.00	-3.18	3	Horizontal	275	1.08	-
2412MHz	Pass	PK	2.4114G	106.94	Inf	-Inf	3	Horizontal	275	1.08	-
2412MHz	Pass	AV	4.82712G	33.33	54.00	-20.67	3	Vertical	88	1.17	-
2412MHz	Pass	PK	4.81408G	46.05	74.00	-27.95	3	Vertical	88	1.17	-
2412MHz	Pass	AV	4.82656G	33.42	54.00	-20.58	3	Horizontal	11	1.50	-
2412MHz	Pass	PK	4.83216G	45.57	74.00	-28.43	3	Horizontal	11	1.50	-
2417MHz	Pass	AV	2.3898G	52.55	54.00	-1.45	3	Vertical	159	2.11	-
2417MHz	Pass	AV	2.4176G	98.89	Inf	-Inf	3	Vertical	159	2.11	-
2417MHz	Pass	PK	2.3854G	67.75	74.00	-6.25	3	Vertical	159	2.11	-
2417MHz	Pass	PK	2.4156G	107.97	Inf	-Inf	3	Vertical	159	2.11	-
2417MHz	Pass	AV	2.39G	52.75	54.00	-1.25	3	Horizontal	273	1.06	-
2417MHz	Pass	AV	2.4164G	100.11	Inf	-Inf	3	Horizontal	273	1.06	-
2417MHz	Pass	PK	2.3888G	68.91	74.00	-5.09	3	Horizontal	273	1.06	-
2417MHz	Pass	PK	2.4184G	109.27	Inf	-Inf	3	Horizontal	273	1.06	-
2437MHz	Pass	AV	2.3894G	48.01	54.00	-5.99	3	Vertical	159	2.09	-
2437MHz	Pass	AV	2.4374G	101.66	Inf	-Inf	3	Vertical	159	2.09	-
2437MHz	Pass	AV	2.4835G	47.78	54.00	-6.22	3	Vertical	159	2.09	-
2437MHz	Pass	PK	2.3898G	61.51	74.00	-12.49	3	Vertical	159	2.09	-
2437MHz	Pass	PK	2.4366G	110.83	Inf	-Inf	3	Vertical	159	2.09	-
2437MHz	Pass	PK	2.4835G	59.94	74.00	-14.06	3	Vertical	159	2.09	-
2437MHz	Pass	AV	2.3898G	48.63	54.00	-5.37	3	Horizontal	274	1.53	-
2437MHz	Pass	AV	2.4378G	102.27	Inf	-Inf	3	Horizontal	274	1.53	-
2437MHz	Pass	AV	2.4838G	47.25	54.00	-6.75	3	Horizontal	274	1.53	-
2437MHz	Pass	PK	2.3874G	62.73	74.00	-11.27	3	Horizontal	274	1.53	-
2437MHz	Pass	PK	2.4358G	111.87	Inf	-Inf	3	Horizontal	274	1.53	-

Remark :

Page No. : F4 of F53

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

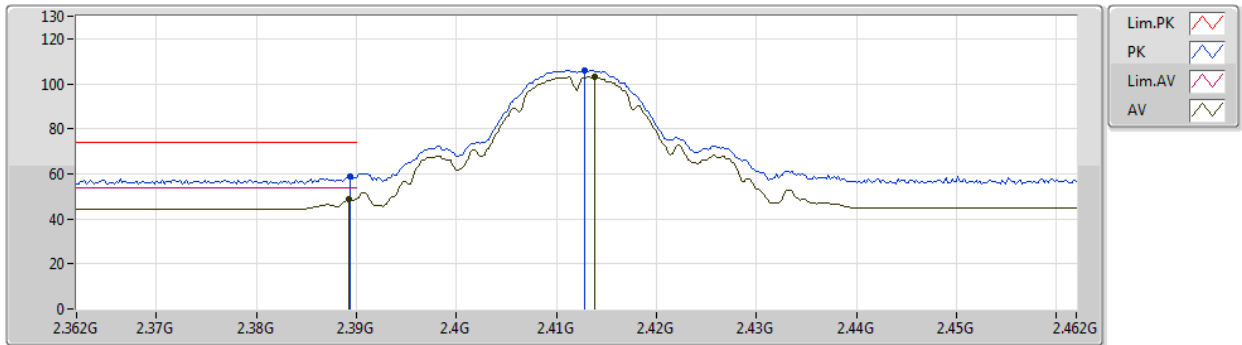
042149

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	2.4954G	60.11	74.00	-13.89	3	Horizontal	274	1.53	-
2437MHz	Pass	AV	4.88344G	33.10	54.00	-20.90	3	Vertical	15	1.50	-
2437MHz	Pass	PK	4.87524G	45.79	74.00	-28.21	3	Vertical	15	1.50	-
2437MHz	Pass	AV	4.88056G	33.35	54.00	-20.65	3	Horizontal	267	1.22	-
2437MHz	Pass	PK	4.87264G	46.13	74.00	-27.87	3	Horizontal	267	1.22	-
2457MHz	Pass	AV	2.4576G	97.13	Inf	-Inf	3	Vertical	166	1.50	-
2457MHz	Pass	AV	2.4835G	50.77	54.00	-3.23	3	Vertical	166	1.50	-
2457MHz	Pass	PK	2.4578G	106.55	Inf	-Inf	3	Vertical	166	1.50	-
2457MHz	Pass	PK	2.4835G	65.28	74.00	-8.72	3	Vertical	166	1.50	-
2457MHz	Pass	AV	2.4564G	100.40	Inf	-Inf	3	Horizontal	275	1.26	-
2457MHz	Pass	AV	2.4842G	52.46	54.00	-1.54	3	Horizontal	275	1.26	-
2457MHz	Pass	PK	2.457G	109.60	Inf	-Inf	3	Horizontal	275	1.26	-
2457MHz	Pass	PK	2.4838G	67.69	74.00	-6.31	3	Horizontal	275	1.26	-
2462MHz	Pass	AV	2.4614G	97.89	Inf	-Inf	3	Vertical	150	2.84	-
2462MHz	Pass	AV	2.4838G	49.50	54.00	-4.50	3	Vertical	150	2.84	-
2462MHz	Pass	PK	2.4596G	107.78	Inf	-Inf	3	Vertical	150	2.84	-
2462MHz	Pass	PK	2.4838G	73.57	74.00	-0.43	3	Vertical	150	2.84	-
2462MHz	Pass	AV	2.4624G	97.66	Inf	-Inf	3	Horizontal	278	1.10	-
2462MHz	Pass	AV	2.4835G	49.31	54.00	-4.69	3	Horizontal	278	1.10	-
2462MHz	Pass	PK	2.4642G	107.72	Inf	-Inf	3	Horizontal	278	1.10	-
2462MHz	Pass	PK	2.484G	73.22	74.00	-0.78	3	Horizontal	278	1.10	-
2462MHz	Pass	AV	4.92276G	33.52	54.00	-20.48	3	Vertical	198	2.27	-
2462MHz	Pass	PK	4.93224G	45.90	74.00	-28.10	3	Vertical	198	2.27	-
2462MHz	Pass	AV	4.92404G	33.41	54.00	-20.59	3	Horizontal	274	1.46	-
2462MHz	Pass	PK	4.92816G	47.27	74.00	-26.73	3	Horizontal	274	1.46	-

802.11b_Nss1,(1Mbps)_1TX(Port2)

09/06/2020

2412MHz_TX

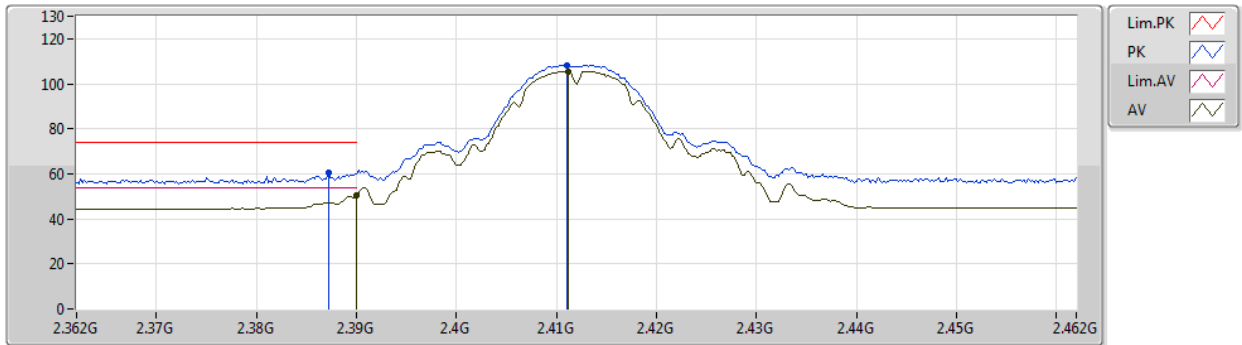


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3892G	48.69	54.00	-5.31	32.71	3	Vertical	156	2.07	-	15.98	27.63	5.08	-
AV	2.4138G	102.93	Inf	-Inf	32.72	3	Vertical	156	2.07	-	70.21	27.60	5.12	-
PK	2.3894G	58.59	74.00	-15.41	32.71	3	Vertical	156	2.07	-	25.88	27.63	5.08	-
PK	2.4128G	105.87	Inf	-Inf	32.72	3	Vertical	156	2.07	-	73.15	27.60	5.12	-

802.11b_Nss1,(1Mbps)_1TX(Port2)

09/06/2020

2412MHz_TX

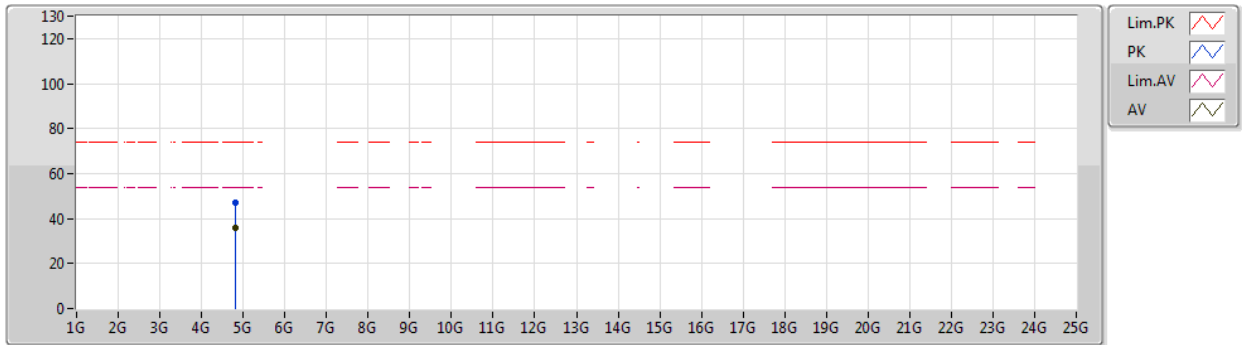


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	50.55	54.00	-3.45	32.71	3	Horizontal	275	1.07	-	17.84	27.63	5.08	-
AV	2.4112G	105.44	Inf	-Inf	32.72	3	Horizontal	275	1.07	-	72.72	27.60	5.12	-
PK	2.3872G	60.47	74.00	-13.53	32.71	3	Horizontal	275	1.07	-	27.76	27.64	5.07	-
PK	2.411G	108.26	Inf	-Inf	32.72	3	Horizontal	275	1.07	-	75.54	27.60	5.12	-

802.11b_Nss1,(1Mbps)_1TX(Port2)

09/06/2020

2412MHz_TX

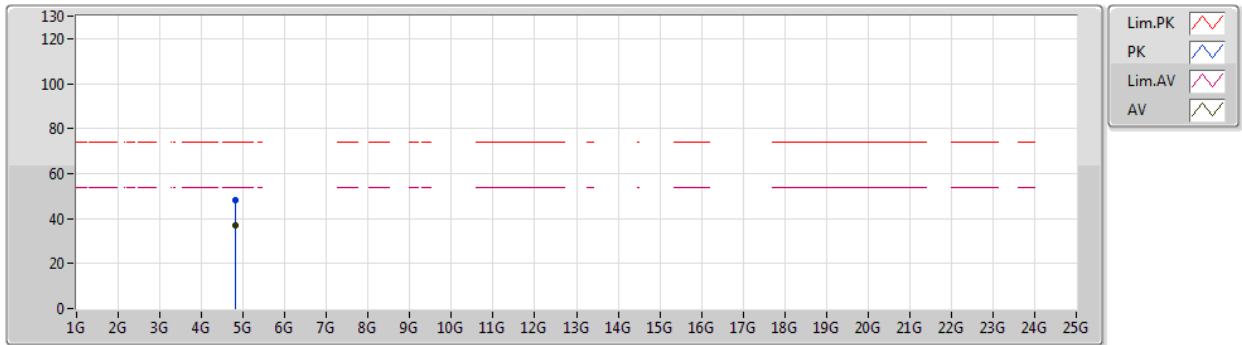


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82402G	36.05	54.00	-17.95	4.15	3	Vertical	208	1.54	-	31.90	31.12	7.32	34.29
PK	4.82396G	47.08	74.00	-26.92	4.15	3	Vertical	208	1.54	-	42.93	31.12	7.32	34.29

802.11b_Nss1,(1Mbps)_1TX(Port2)

09/06/2020

2412MHz_TX

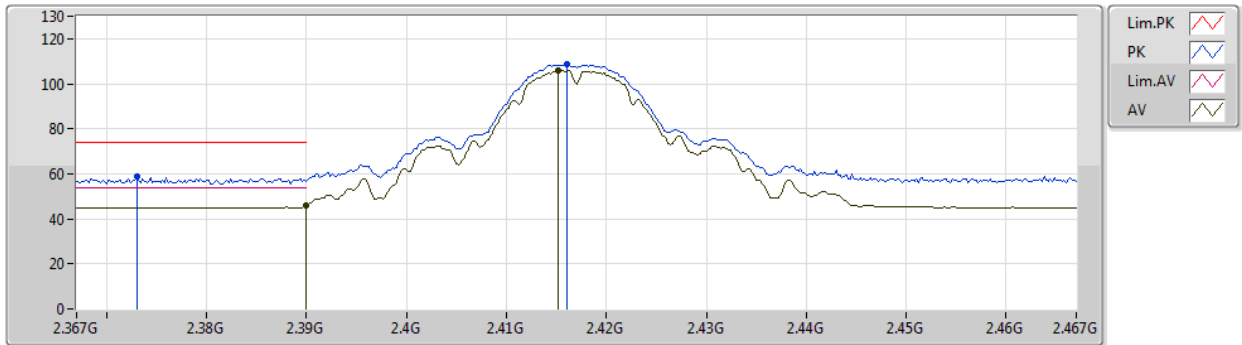


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82395G	36.73	54.00	-17.27	4.15	3	Horizontal	262	1.79	-	32.58	31.12	7.32	34.29
PK	4.82408G	48.24	74.00	-25.76	4.15	3	Horizontal	262	1.79	-	44.09	31.12	7.32	34.29

802.11b_Nss1,(1Mbps)_1TX(Port2)

09/06/2020

2417MHz_TX

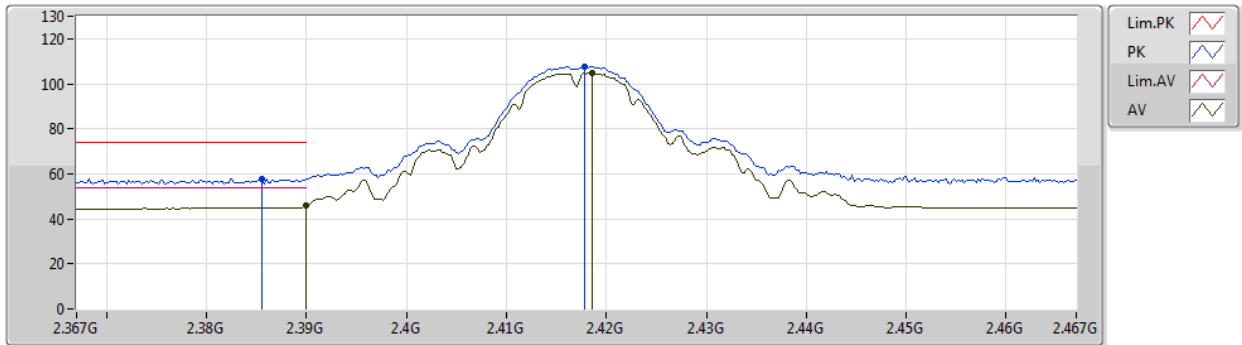


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	45.75	54.00	-8.25	32.71	3	Vertical	150	2.88	-	13.04	27.63	5.08	-
AV	2.4152G	105.66	Inf	-Inf	32.72	3	Vertical	150	2.88	-	72.94	27.60	5.12	-
PK	2.373G	58.97	74.00	-15.03	32.73	3	Vertical	150	2.88	-	26.24	27.68	5.05	-
PK	2.416G	108.46	Inf	-Inf	32.72	3	Vertical	150	2.88	-	75.74	27.60	5.12	-

802.11b_Nss1,(1Mbps)_1TX(Port2)

09/06/2020

2417MHz_TX

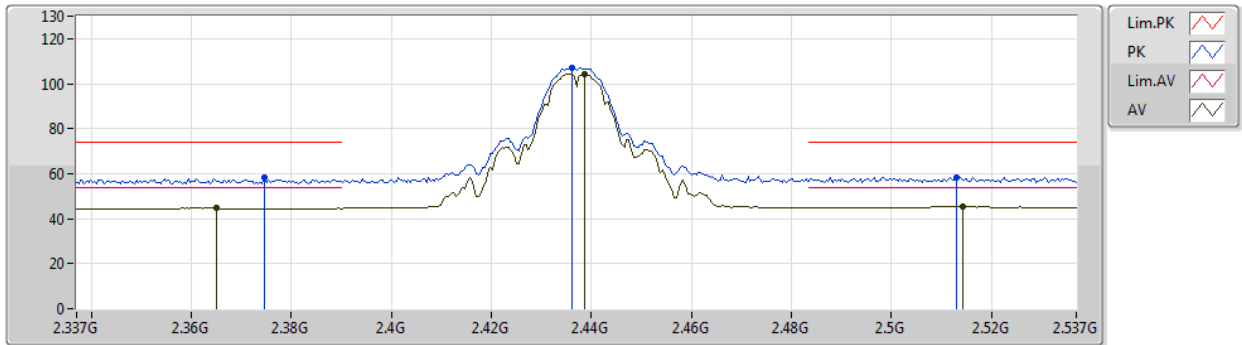


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	45.67	54.00	-8.33	32.71	3	Horizontal	273	1.50	-	12.96	27.63	5.08	-
AV	2.4186G	104.85	Inf	-Inf	32.73	3	Horizontal	273	1.50	-	72.12	27.60	5.13	-
PK	2.3856G	57.86	74.00	-16.14	32.71	3	Horizontal	273	1.50	-	25.15	27.64	5.07	-
PK	2.4178G	107.54	Inf	-Inf	32.73	3	Horizontal	273	1.50	-	74.81	27.60	5.13	-

802.11b_Nss1,(1Mbps)_1TX(Port2)

09/06/2020

2437MHz_TX

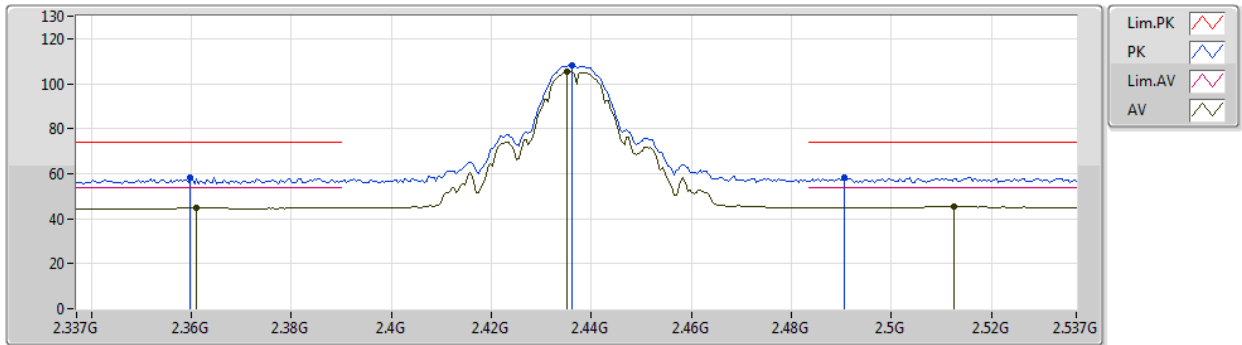


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.365G	44.62	54.00	-9.38	32.74	3	Vertical	158	2.09	-	11.88	27.71	5.03	-
AV	2.4386G	104.12	Inf	-Inf	32.76	3	Vertical	158	2.09	-	71.36	27.60	5.16	-
AV	2.5142G	45.29	54.00	-8.71	32.87	3	Vertical	158	2.09	-	12.42	27.60	5.27	-
PK	2.3746G	58.23	74.00	-15.77	32.73	3	Vertical	158	2.09	-	25.50	27.68	5.05	-
PK	2.4362G	106.87	Inf	-Inf	32.75	3	Vertical	158	2.09	-	74.12	27.60	5.15	-
PK	2.513G	58.40	74.00	-15.60	32.87	3	Vertical	158	2.09	-	25.53	27.60	5.27	-

802.11b_Nss1,(1Mbps)_1TX(Port2)

09/06/2020

2437MHz_TX

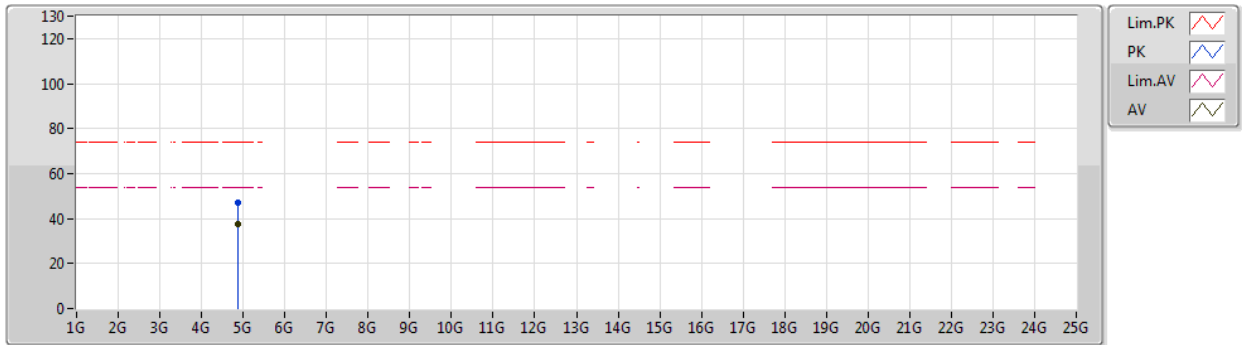


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.361G	44.74	54.00	-9.26	32.74	3	Horizontal	272	1.08	-	12.00	27.72	5.02	-
AV	2.435G	105.39	Inf	-Inf	32.75	3	Horizontal	272	1.08	-	72.64	27.60	5.15	-
AV	2.5126G	45.39	54.00	-8.61	32.87	3	Horizontal	272	1.08	-	12.52	27.60	5.27	-
PK	2.3598G	58.25	74.00	-15.75	32.74	3	Horizontal	272	1.08	-	25.51	27.72	5.02	-
PK	2.4362G	108.10	Inf	-Inf	32.75	3	Horizontal	272	1.08	-	75.35	27.60	5.15	-
PK	2.4906G	58.11	74.00	-15.89	32.84	3	Horizontal	272	1.08	-	25.27	27.60	5.24	-

802.11b_Nss1,(1Mbps)_1TX(Port2)

09/06/2020

2437MHz_TX

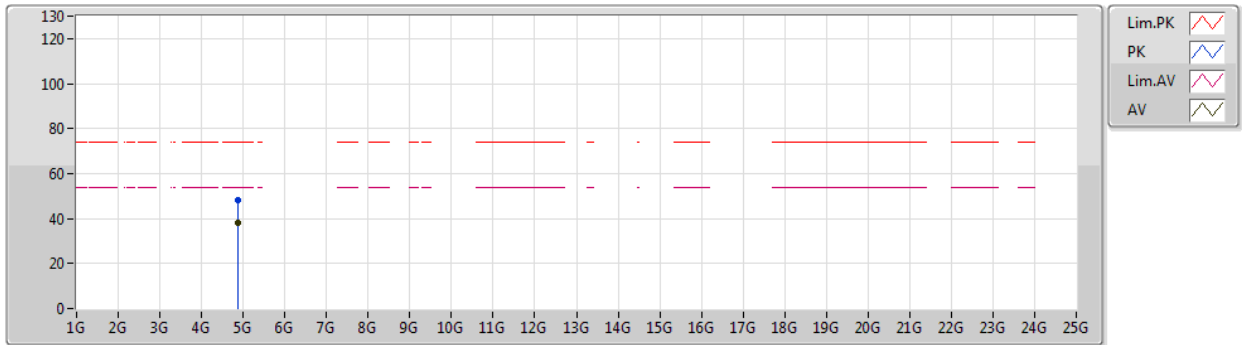


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.874G	37.45	54.00	-16.55	4.26	3	Vertical	203	1.64	-	33.19	31.17	7.37	34.28
PK	4.87384G	47.00	74.00	-27.00	4.26	3	Vertical	203	1.64	-	42.74	31.17	7.37	34.28

802.11b_Nss1,(1Mbps)_1TX(Port2)

09/06/2020

2437MHz_TX

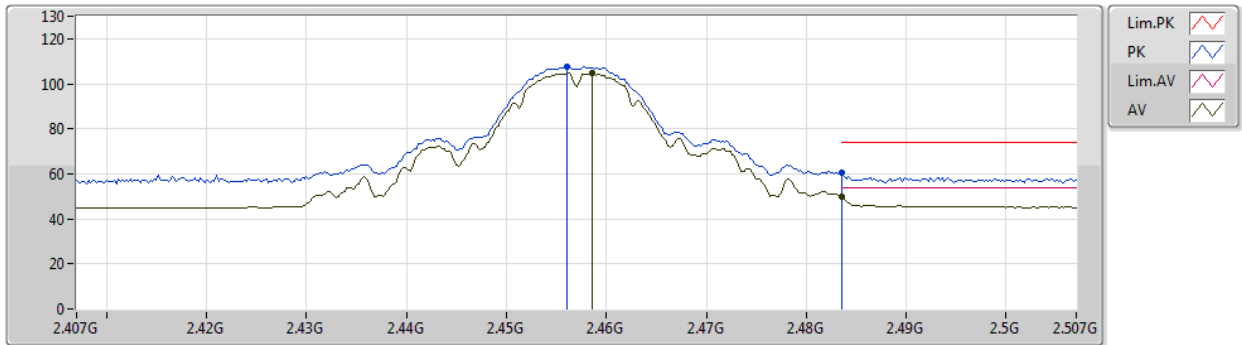


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87396G	38.02	54.00	-15.98	4.26	3	Horizontal	258	1.80	-	33.76	31.17	7.37	34.28
PK	4.87365G	48.16	74.00	-25.84	4.26	3	Horizontal	258	1.80	-	43.90	31.17	7.37	34.28

802.11b_Nss1,(1Mbps)_1TX(Port2)

09/06/2020

2457MHz_TX

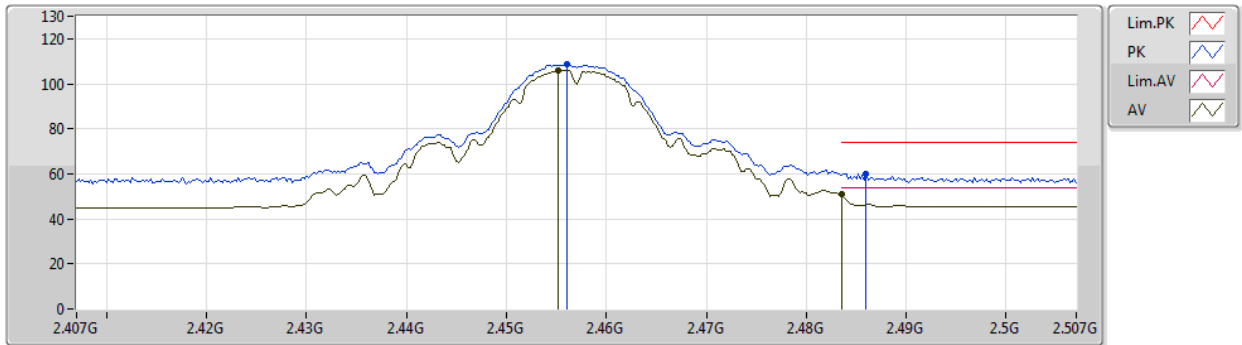


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4586G	104.57	Inf	-Inf	32.79	3	Vertical	160	2.04	-	71.78	27.60	5.19	-
AV	2.4835G	50.11	54.00	-3.89	32.83	3	Vertical	160	2.04	-	17.28	27.60	5.23	-
PK	2.456G	107.34	Inf	-Inf	32.78	3	Vertical	160	2.04	-	74.56	27.60	5.18	-
PK	2.4835G	60.25	74.00	-13.75	32.83	3	Vertical	160	2.04	-	27.42	27.60	5.23	-

802.11b_Nss1,(1Mbps)_1TX(Port2)

09/06/2020

2457MHz_TX

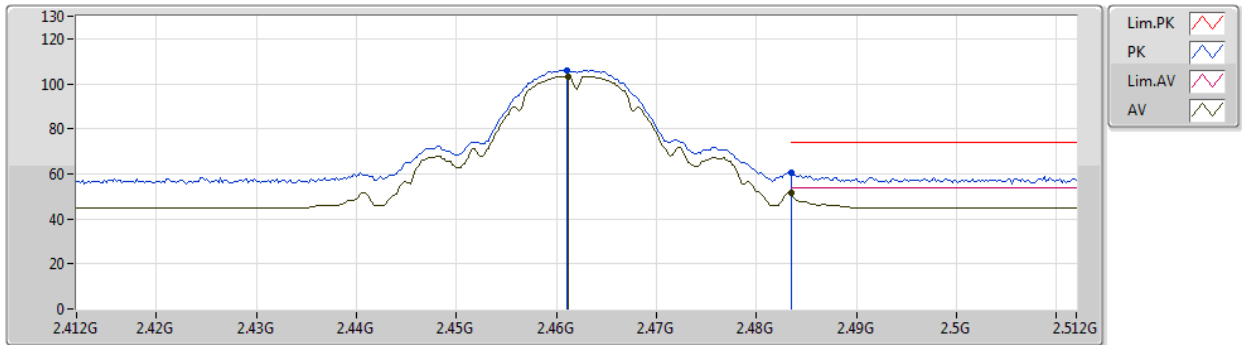


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4552G	105.81	Inf	-Inf	32.78	3	Horizontal	275	1.25	-	73.03	27.60	5.18	-
AV	2.4835G	50.75	54.00	-3.25	32.83	3	Horizontal	275	1.25	-	17.92	27.60	5.23	-
PK	2.456G	108.54	Inf	-Inf	32.78	3	Horizontal	275	1.25	-	75.76	27.60	5.18	-
PK	2.486G	60.18	74.00	-13.82	32.83	3	Horizontal	275	1.25	-	27.35	27.60	5.23	-

802.11b_Nss1,(1Mbps)_1TX(Port2)

09/06/2020

2462MHz_TX

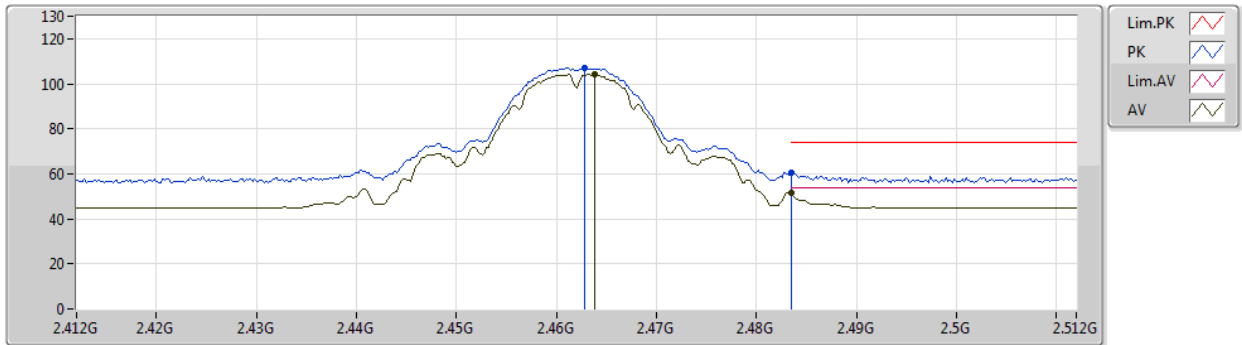


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4612G	103.27	Inf	-Inf	32.79	3	Vertical	160	2.04	-	70.48	27.60	5.19	-
AV	2.4835G	51.28	54.00	-2.72	32.83	3	Vertical	160	2.04	-	18.45	27.60	5.23	-
PK	2.461G	106.04	Inf	-Inf	32.79	3	Vertical	160	2.04	-	73.25	27.60	5.19	-
PK	2.4835G	60.32	74.00	-13.68	32.83	3	Vertical	160	2.04	-	27.49	27.60	5.23	-

802.11b_Nss1,(1Mbps)_1TX(Port2)

09/06/2020

2462MHz_TX

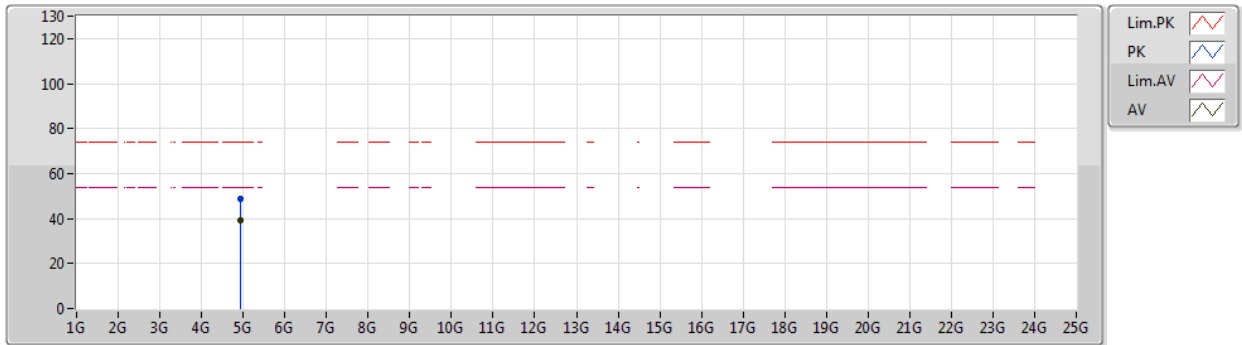


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4638G	104.09	Inf	-Inf	32.80	3	Horizontal	272	1.10	-	71.29	27.60	5.20	-
AV	2.4835G	51.74	54.00	-2.26	32.83	3	Horizontal	272	1.10	-	18.91	27.60	5.23	-
PK	2.4628G	106.88	Inf	-Inf	32.79	3	Horizontal	272	1.10	-	74.09	27.60	5.19	-
PK	2.4835G	60.56	74.00	-13.44	32.83	3	Horizontal	272	1.10	-	27.73	27.60	5.23	-

802.11b_Nss1,(1Mbps)_1TX(Port2)

09/06/2020

2462MHz_TX

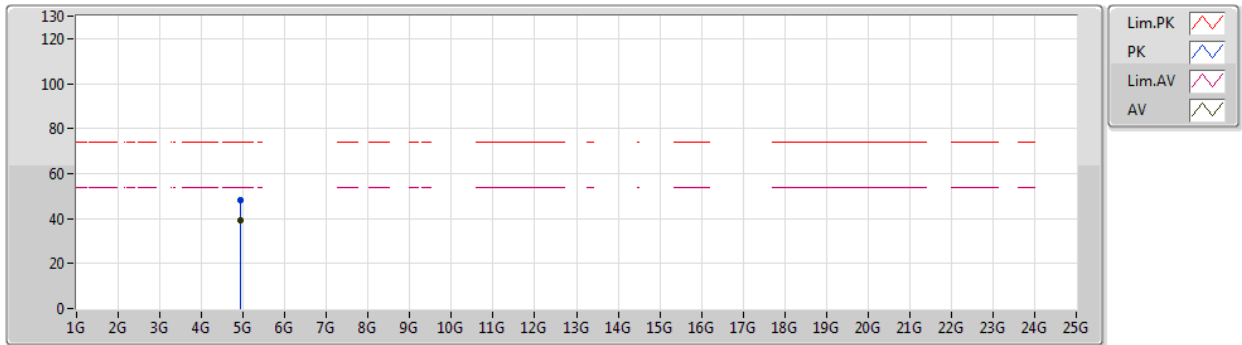


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92399G	38.98	54.00	-15.02	4.47	3	Vertical	200	1.32	-	34.51	31.27	7.42	34.22
PK	4.92406G	48.74	74.00	-25.26	4.47	3	Vertical	200	1.32	-	44.27	31.27	7.42	34.22

802.11b_Nss1,(1Mbps)_1TX(Port2)

09/06/2020

2462MHz_TX

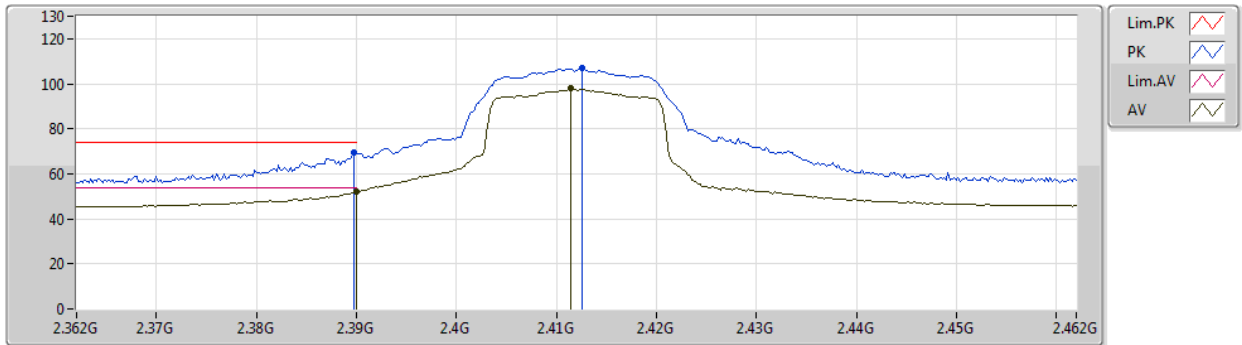


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.924G	39.07	54.00	-14.93	4.47	3	Horizontal	265	1.77	-	34.60	31.27	7.42	34.22
PK	4.92396G	48.07	74.00	-25.93	4.47	3	Horizontal	265	1.77	-	43.60	31.27	7.42	34.22

802.11g_Nss1,(6Mbps)_1TX(Port2)

09/06/2020

2412MHz_TX

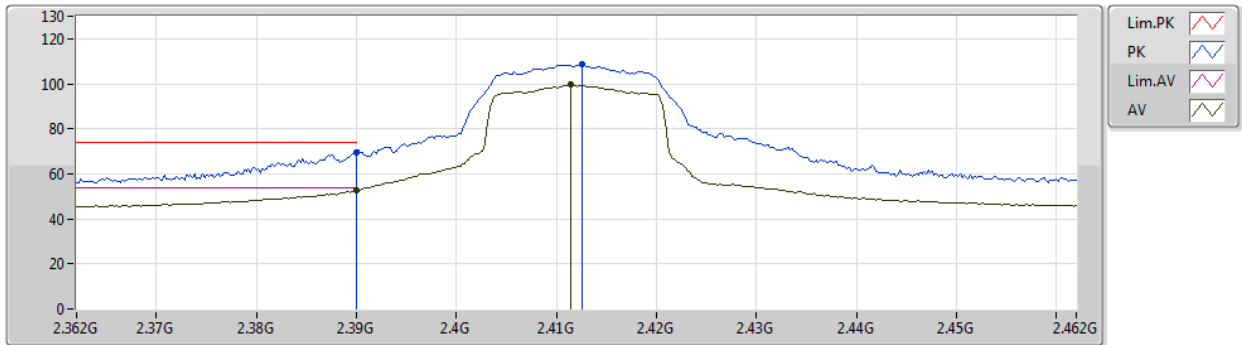


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	51.90	54.00	-2.10	32.71	3	Vertical	162	2.10	-	19.19	27.63	5.08	-
AV	2.4114G	97.82	Inf	-Inf	32.72	3	Vertical	162	2.10	-	65.10	27.60	5.12	-
PK	2.3898G	69.22	74.00	-4.78	32.71	3	Vertical	162	2.10	-	36.51	27.63	5.08	-
PK	2.4126G	106.82	Inf	-Inf	32.72	3	Vertical	162	2.10	-	74.10	27.60	5.12	-

802.11g_Nss1,(6Mbps)_1TX(Port2)

09/06/2020

2412MHz_TX

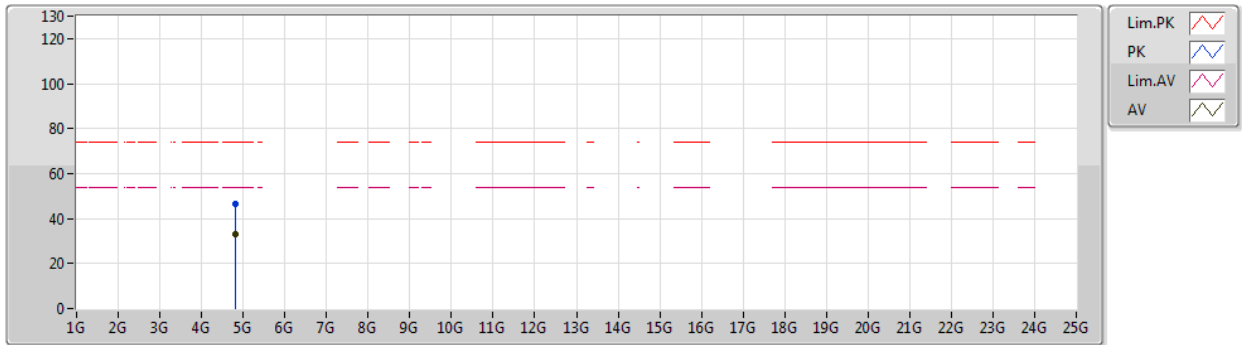


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	52.64	54.00	-1.36	32.71	3	Horizontal	275	1.03	-	19.93	27.63	5.08	-
AV	2.4114G	99.81	Inf	-Inf	32.72	3	Horizontal	275	1.03	-	67.09	27.60	5.12	-
PK	2.39G	69.66	74.00	-4.34	32.71	3	Horizontal	275	1.03	-	36.95	27.63	5.08	-
PK	2.4126G	108.73	Inf	-Inf	32.72	3	Horizontal	275	1.03	-	76.01	27.60	5.12	-

802.11g_Nss1,(6Mbps)_1TX(Port2)

09/06/2020

2412MHz_TX

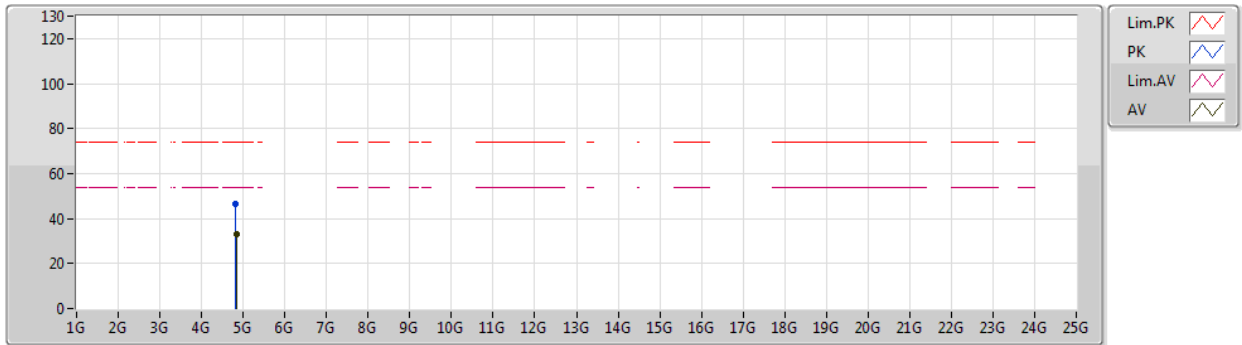


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82376G	33.31	54.00	-20.69	4.15	3	Vertical	102	1.50	-	29.16	31.12	7.32	34.29
PK	4.81732G	46.43	74.00	-27.57	4.15	3	Vertical	102	1.50	-	42.28	31.12	7.32	34.29

802.11g_Nss1,(6Mbps)_1TX(Port2)

09/06/2020

2412MHz_TX

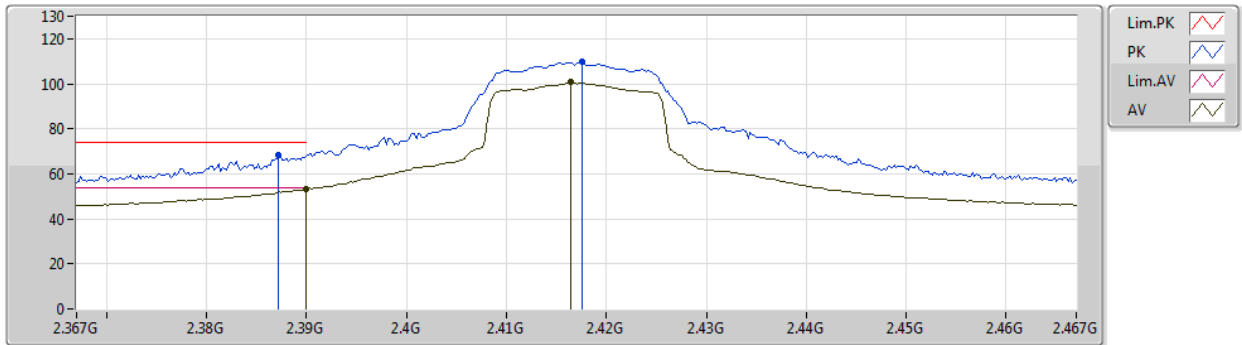


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.83028G	33.31	54.00	-20.69	4.17	3	Horizontal	12	1.50	-	29.14	31.13	7.33	34.29
PK	4.82664G	46.48	74.00	-27.52	4.17	3	Horizontal	12	1.50	-	42.31	31.13	7.33	34.29

802.11g_Nss1,(6Mbps)_1TX(Port2)

09/06/2020

2417MHz_TX

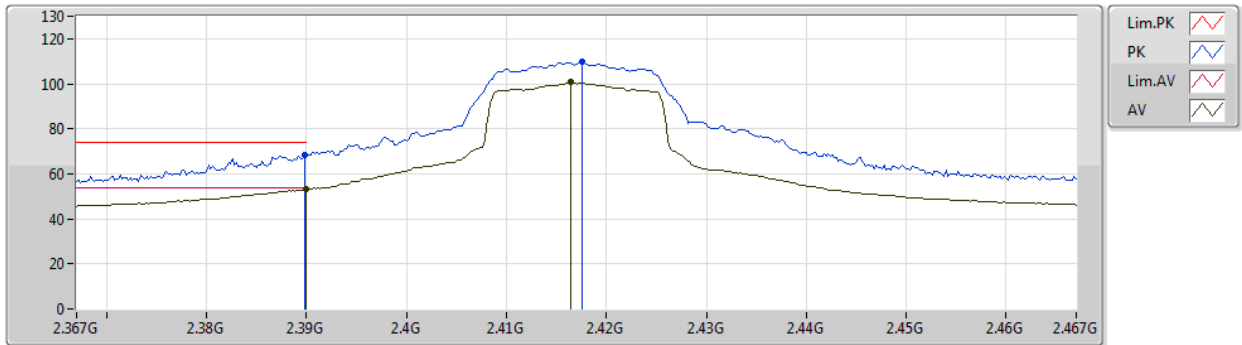


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	53.38	54.00	-0.62	32.71	3	Vertical	148	2.91	-	20.67	27.63	5.08	-
AV	2.4164G	100.71	Inf	-Inf	32.72	3	Vertical	148	2.91	-	67.99	27.60	5.12	-
PK	2.3872G	68.48	74.00	-5.52	32.71	3	Vertical	148	2.91	-	35.77	27.64	5.07	-
PK	2.4176G	109.70	Inf	-Inf	32.73	3	Vertical	148	2.91	-	76.97	27.60	5.13	-

802.11g_Nss1,(6Mbps)_1TX(Port2)

09/06/2020

2417MHz_TX

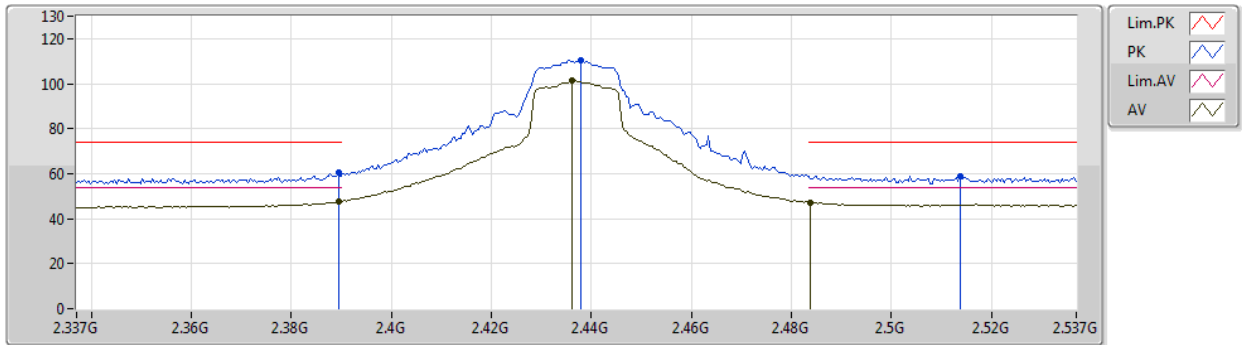


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	53.47	54.00	-0.53	32.71	3	Horizontal	273	1.07	-	20.76	27.63	5.08	-
AV	2.4164G	100.68	Inf	-Inf	32.72	3	Horizontal	273	1.07	-	67.96	27.60	5.12	-
PK	2.3898G	68.17	74.00	-5.83	32.71	3	Horizontal	273	1.07	-	35.46	27.63	5.08	-
PK	2.4176G	109.67	Inf	-Inf	32.73	3	Horizontal	273	1.07	-	76.94	27.60	5.13	-

802.11g_Nss1,(6Mbps)_1TX(Port2)

09/06/2020

2437MHz_TX

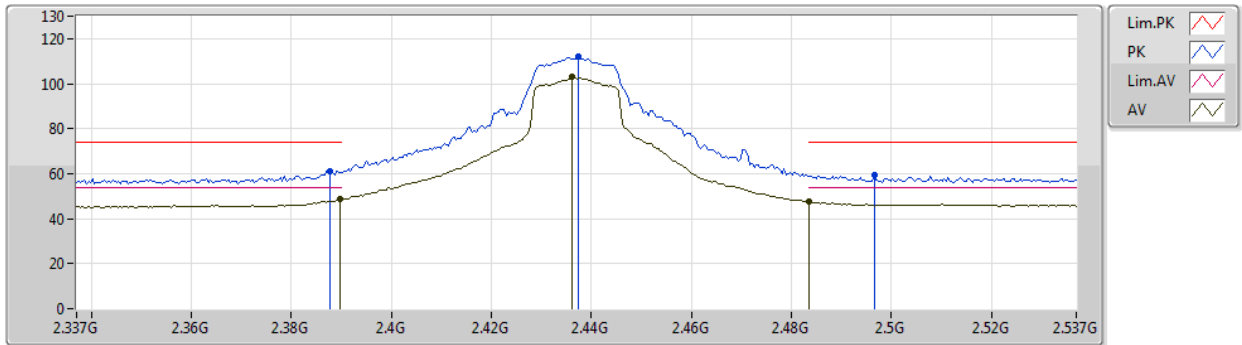


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	47.78	54.00	-6.22	32.71	3	Vertical	159	2.10	-	15.07	27.63	5.08	-
AV	2.4362G	101.48	Inf	-Inf	32.75	3	Vertical	159	2.10	-	68.73	27.60	5.15	-
AV	2.4838G	47.22	54.00	-6.78	32.83	3	Vertical	159	2.10	-	14.39	27.60	5.23	-
PK	2.3894G	60.29	74.00	-13.71	32.71	3	Vertical	159	2.10	-	27.58	27.63	5.08	-
PK	2.4378G	110.30	Inf	-Inf	32.76	3	Vertical	159	2.10	-	77.54	27.60	5.16	-
PK	2.5138G	59.02	74.00	-14.98	32.87	3	Vertical	159	2.10	-	26.15	27.60	5.27	-

802.11g_Nss1,(6Mbps)_1TX(Port2)

09/06/2020

2437MHz_TX

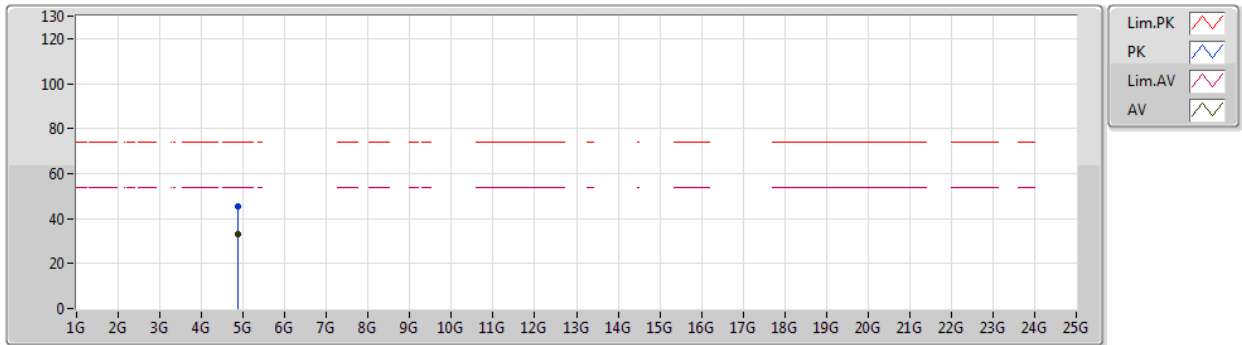


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	48.55	54.00	-5.45	32.71	3	Horizontal	274	1.36	-	15.84	27.63	5.08	-
AV	2.4362G	102.90	Inf	-Inf	32.75	3	Horizontal	274	1.36	-	70.15	27.60	5.15	-
AV	2.4835G	47.56	54.00	-6.44	32.83	3	Horizontal	274	1.36	-	14.73	27.60	5.23	-
PK	2.3878G	61.21	74.00	-12.79	32.72	3	Horizontal	274	1.36	-	28.49	27.64	5.08	-
PK	2.4374G	111.80	Inf	-Inf	32.76	3	Horizontal	274	1.36	-	79.04	27.60	5.16	-
PK	2.4966G	59.23	74.00	-14.77	32.84	3	Horizontal	274	1.36	-	26.39	27.60	5.24	-

802.11g_Nss1,(6Mbps)_1TX(Port2)

09/06/2020

2437MHz_TX

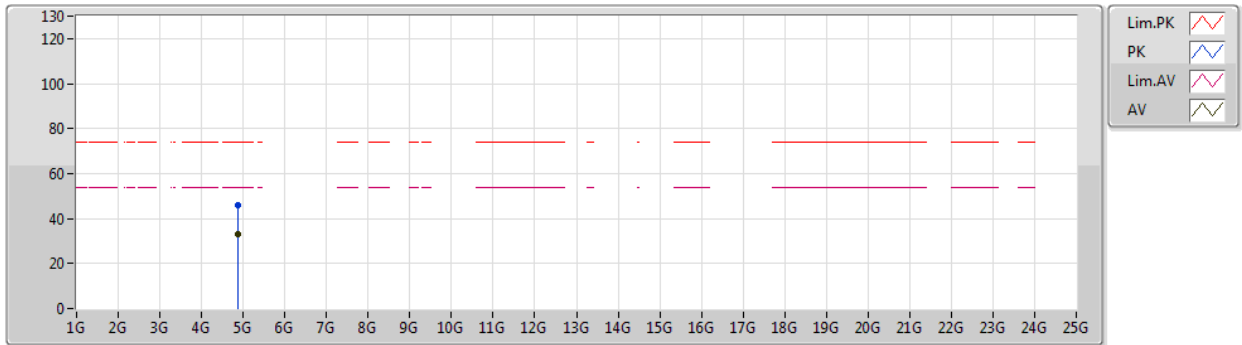


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.86844G	33.20	54.00	-20.80	4.26	3	Vertical	184	1.50	-	28.94	31.17	7.37	34.28
PK	4.86544G	45.48	74.00	-28.52	4.26	3	Vertical	184	1.50	-	41.22	31.17	7.37	34.28

802.11g_Nss1,(6Mbps)_1TX(Port2)

09/06/2020

2437MHz_TX

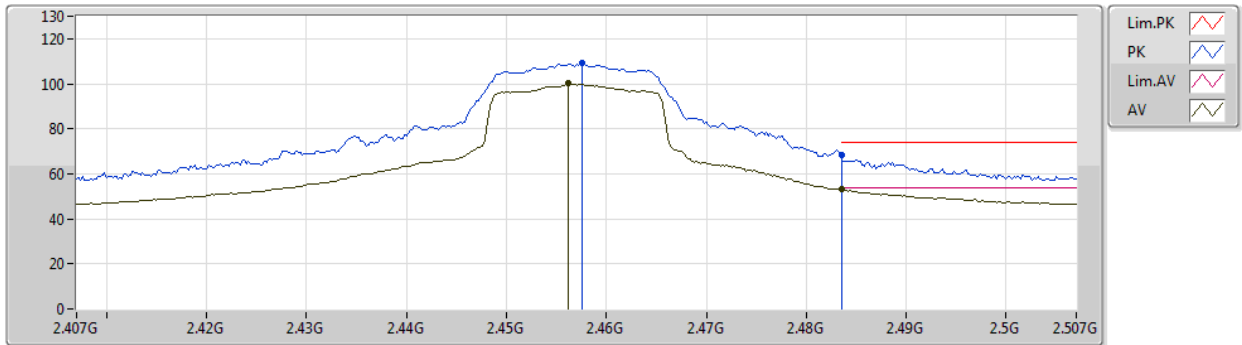


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88324G	33.24	54.00	-20.76	4.28	3	Horizontal	265	1.04	-	28.96	31.18	7.38	34.28
PK	4.86792G	46.18	74.00	-27.82	4.26	3	Horizontal	265	1.04	-	41.92	31.17	7.37	34.28

802.11g_Nss1,(6Mbps)_1TX(Port2)

09/06/2020

2457MHz_TX

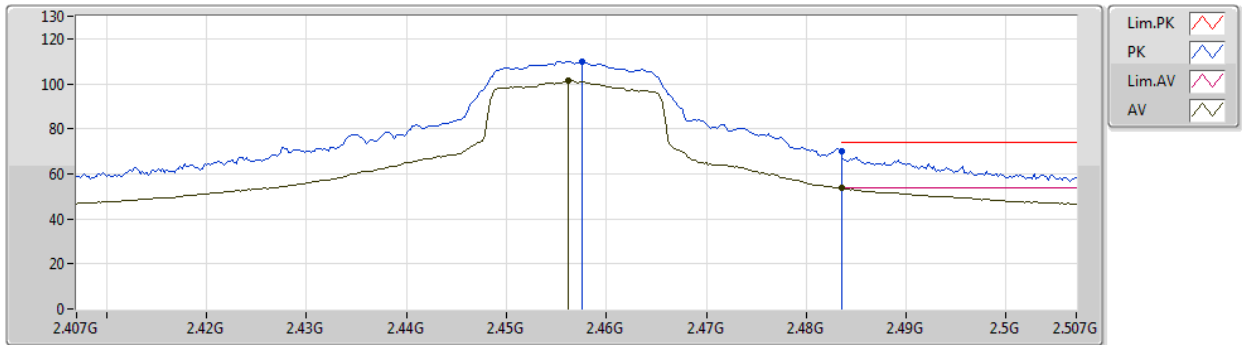


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4562G	100.10	Inf	-Inf	32.78	3	Vertical	161	2.05	-	67.32	27.60	5.18	-
AV	2.4835G	53.18	54.00	-0.82	32.83	3	Vertical	161	2.05	-	20.35	27.60	5.23	-
PK	2.4576G	109.18	Inf	-Inf	32.79	3	Vertical	161	2.05	-	76.39	27.60	5.19	-
PK	2.4835G	68.39	74.00	-5.61	32.83	3	Vertical	161	2.05	-	35.56	27.60	5.23	-

802.11g_Nss1,(6Mbps)_1TX(Port2)

09/06/2020

2457MHz_TX

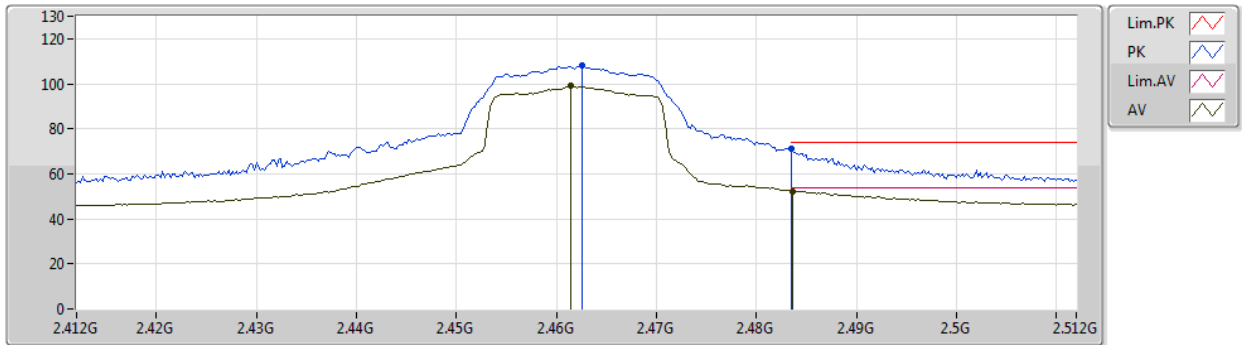


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4562G	101.47	Inf	-Inf	32.78	3	Horizontal	274	1.26	-	68.69	27.60	5.18	-
AV	2.4835G	53.70	54.00	-0.30	32.83	3	Horizontal	274	1.26	-	20.87	27.60	5.23	-
PK	2.4576G	109.97	Inf	-Inf	32.79	3	Horizontal	274	1.26	-	77.18	27.60	5.19	-
PK	2.4835G	70.12	74.00	-3.88	32.83	3	Horizontal	274	1.26	-	37.29	27.60	5.23	-

802.11g_Nss1,(6Mbps)_1TX(Port2)

09/06/2020

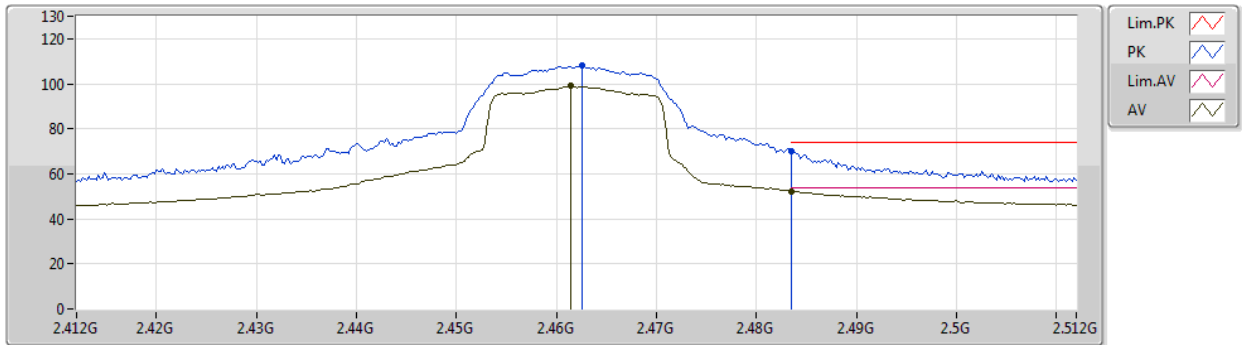
2462MHz_TX



802.11g_Nss1,(6Mbps)_1TX(Port2)

09/06/2020

2462MHz_TX

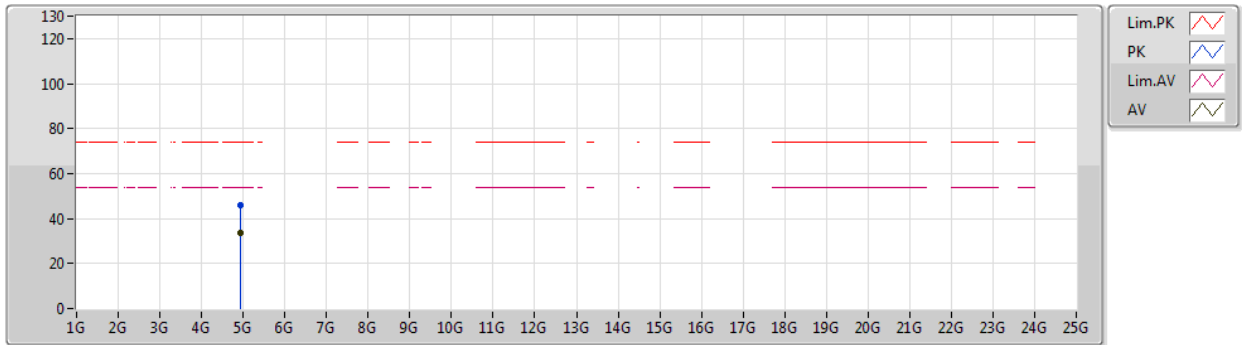


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4614G	99.21	Inf	-Inf	32.79	3	Horizontal	274	1.50	-	66.42	27.60	5.19	-
AV	2.4835G	52.15	54.00	-1.85	32.83	3	Horizontal	274	1.50	-	19.32	27.60	5.23	-
PK	2.4626G	108.21	Inf	-Inf	32.79	3	Horizontal	274	1.50	-	75.42	27.60	5.19	-
PK	2.4835G	70.29	74.00	-3.71	32.83	3	Horizontal	274	1.50	-	37.46	27.60	5.23	-

802.11g_Nss1,(6Mbps)_1TX(Port2)

09/06/2020

2462MHz_TX

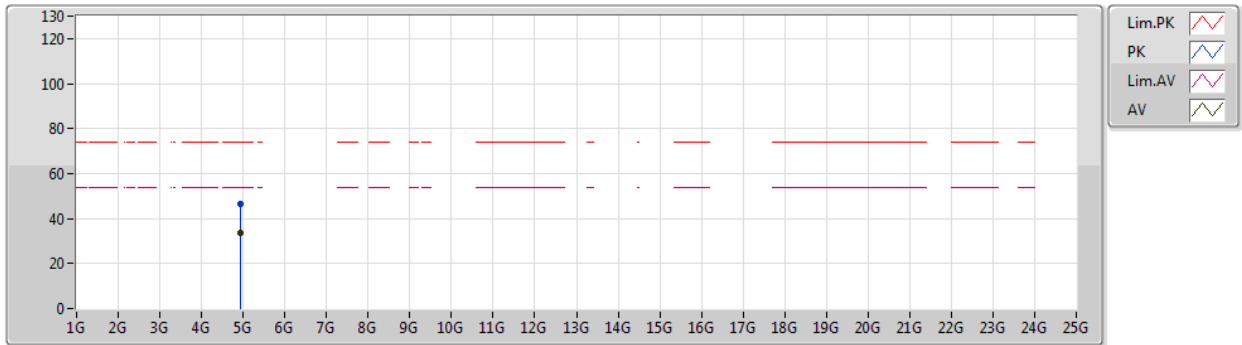


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92272G	33.75	54.00	-20.25	4.46	3	Vertical	200	1.50	-	29.29	31.27	7.42	34.23
PK	4.9276G	46.12	74.00	-27.88	4.49	3	Vertical	200	1.50	-	41.63	31.28	7.43	34.22

802.11g_Nss1,(6Mbps)_1TX(Port2)

09/06/2020

2462MHz_TX

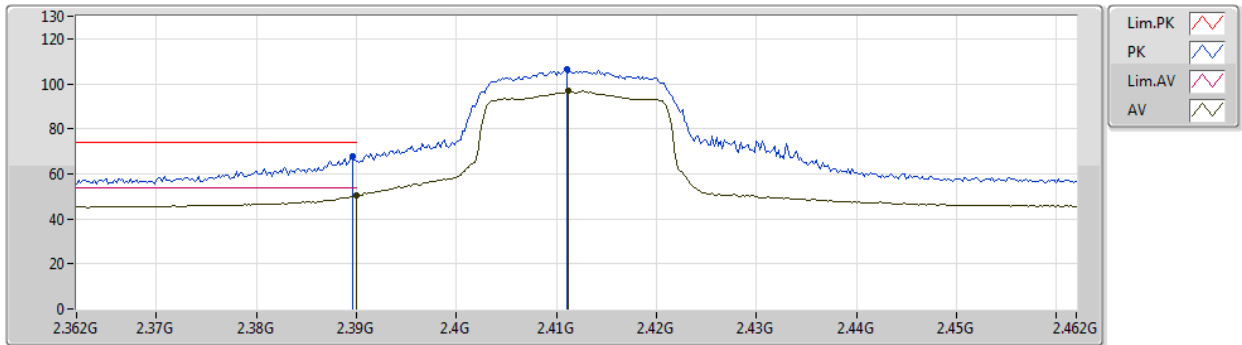


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.93084G	33.60	54.00	-20.40	4.51	3	Horizontal	253	1.00	-	29.09	31.29	7.43	34.21
PK	4.92756G	46.73	74.00	-27.27	4.49	3	Horizontal	253	1.00	-	42.24	31.28	7.43	34.22

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

09/06/2020

2412MHz_TX

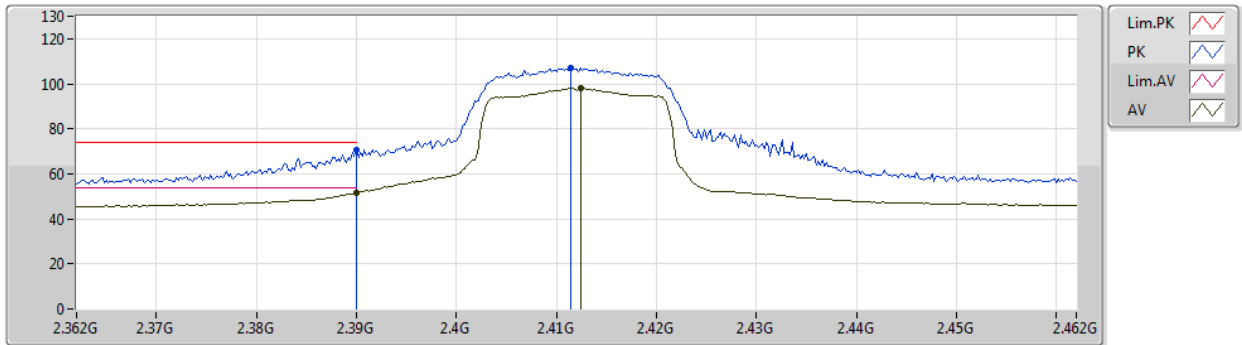


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	50.18	54.00	-3.82	32.71	3	Vertical	160	2.10	-	17.47	27.63	5.08	-
AV	2.4112G	96.66	Inf	-Inf	32.72	3	Vertical	160	2.10	-	63.94	27.60	5.12	-
PK	2.3896G	67.74	74.00	-6.26	32.71	3	Vertical	160	2.10	-	35.03	27.63	5.08	-
PK	2.411G	106.44	Inf	-Inf	32.72	3	Vertical	160	2.10	-	73.72	27.60	5.12	-

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

09/06/2020

2412MHz_TX

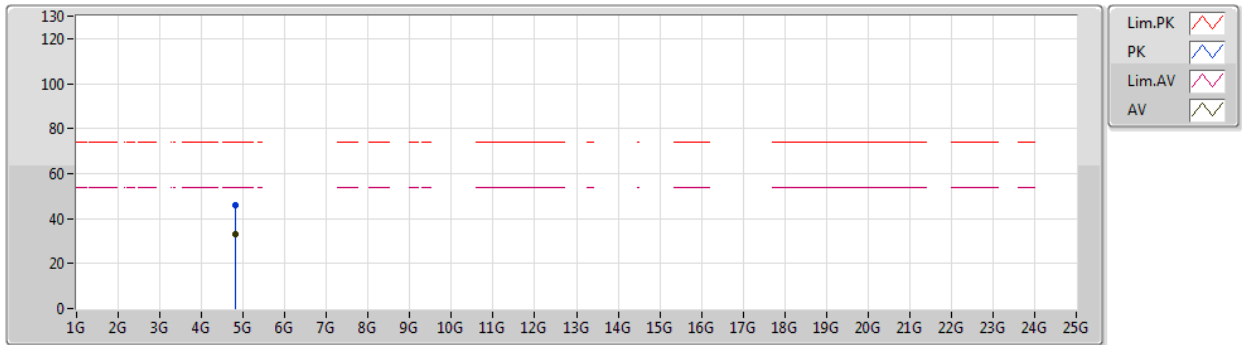


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	51.49	54.00	-2.51	32.71	3	Horizontal	275	1.08	-	18.78	27.63	5.08	-
AV	2.4124G	98.03	Inf	-Inf	32.72	3	Horizontal	275	1.08	-	65.31	27.60	5.12	-
PK	2.39G	70.82	74.00	-3.18	32.71	3	Horizontal	275	1.08	-	38.11	27.63	5.08	-
PK	2.4114G	106.94	Inf	-Inf	32.72	3	Horizontal	275	1.08	-	74.22	27.60	5.12	-

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

09/06/2020

2412MHz_TX

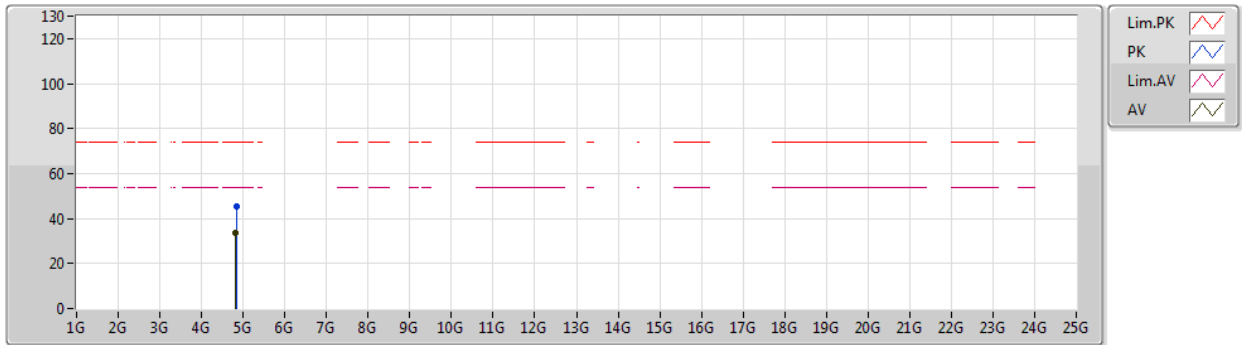


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82712G	33.33	54.00	-20.67	4.17	3	Vertical	88	1.17	-	29.16	31.13	7.33	34.29
PK	4.81408G	46.05	74.00	-27.95	4.12	3	Vertical	88	1.17	-	41.93	31.11	7.31	34.30

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

09/06/2020

2412MHz_TX

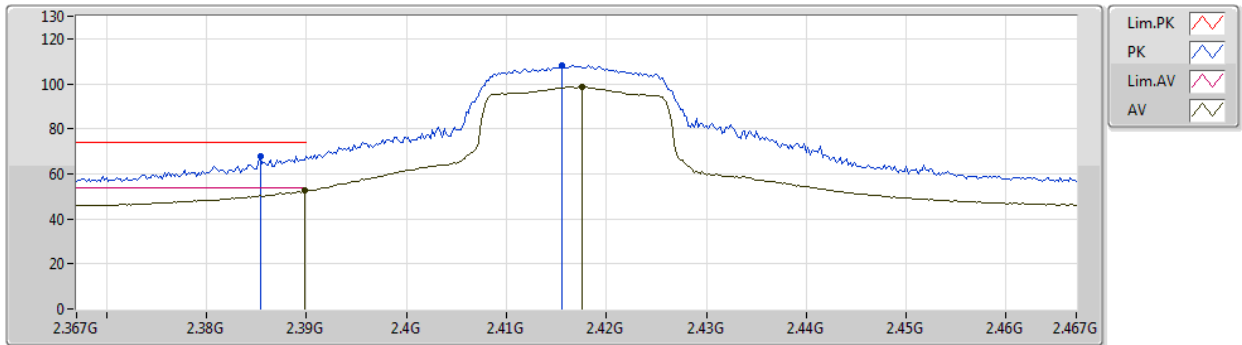


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82656G	33.42	54.00	-20.58	4.17	3	Horizontal	11	1.50	-	29.25	31.13	7.33	34.29
PK	4.83216G	45.57	74.00	-28.43	4.17	3	Horizontal	11	1.50	-	41.40	31.13	7.33	34.29

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

09/06/2020

2417MHz_TX

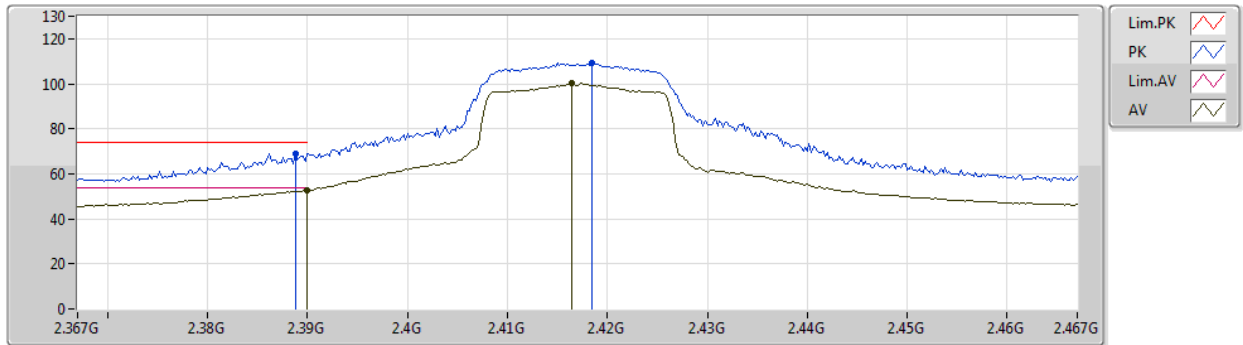


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	52.55	54.00	-1.45	32.71	3	Vertical	159	2.11	-	19.84	27.63	5.08	-
AV	2.4176G	98.89	Inf	-Inf	32.73	3	Vertical	159	2.11	-	66.16	27.60	5.13	-
PK	2.3854G	67.75	74.00	-6.25	32.71	3	Vertical	159	2.11	-	35.04	27.64	5.07	-
PK	2.4156G	107.97	Inf	-Inf	32.72	3	Vertical	159	2.11	-	75.25	27.60	5.12	-

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

09/06/2020

2417MHz_TX

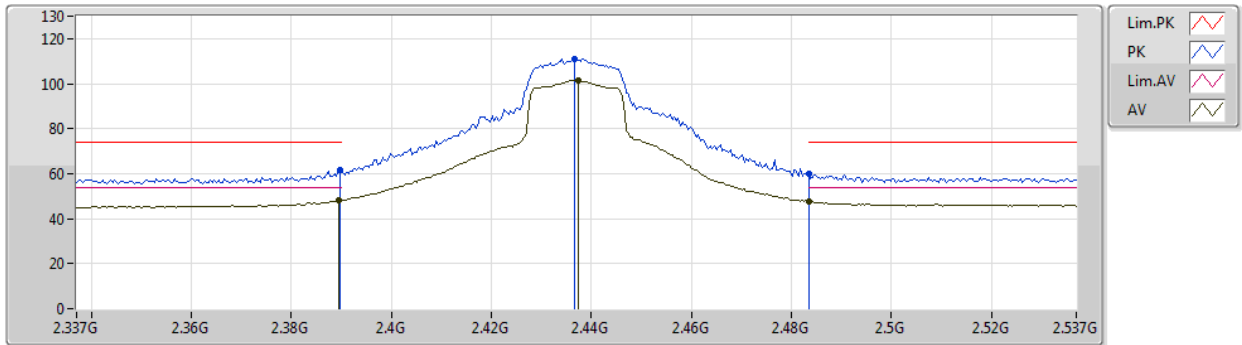


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	52.75	54.00	-1.25	32.71	3	Horizontal	273	1.06	-	20.04	27.63	5.08	-
AV	2.4164G	100.11	Inf	-Inf	32.72	3	Horizontal	273	1.06	-	67.39	27.60	5.12	-
PK	2.3888G	68.91	74.00	-5.09	32.71	3	Horizontal	273	1.06	-	36.20	27.63	5.08	-
PK	2.4184G	109.27	Inf	-Inf	32.73	3	Horizontal	273	1.06	-	76.54	27.60	5.13	-

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

09/06/2020

2437MHz_TX

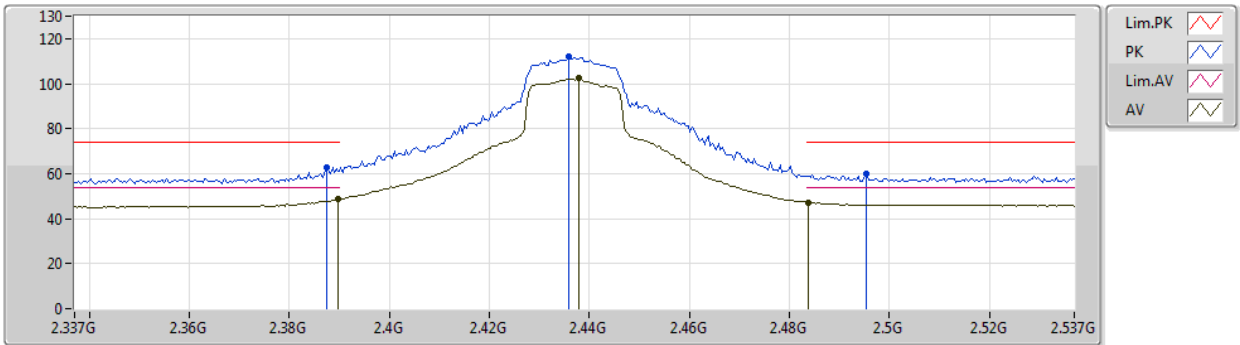


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	48.01	54.00	-5.99	32.71	3	Vertical	159	2.09	-	15.30	27.63	5.08	-
AV	2.4374G	101.66	Inf	-Inf	32.76	3	Vertical	159	2.09	-	68.90	27.60	5.16	-
AV	2.4835G	47.78	54.00	-6.22	32.83	3	Vertical	159	2.09	-	14.95	27.60	5.23	-
PK	2.3898G	61.51	74.00	-12.49	32.71	3	Vertical	159	2.09	-	28.80	27.63	5.08	-
PK	2.4366G	110.83	Inf	-Inf	32.75	3	Vertical	159	2.09	-	78.08	27.60	5.15	-
PK	2.4835G	59.94	74.00	-14.06	32.83	3	Vertical	159	2.09	-	27.11	27.60	5.23	-

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

09/06/2020

2437MHz_TX

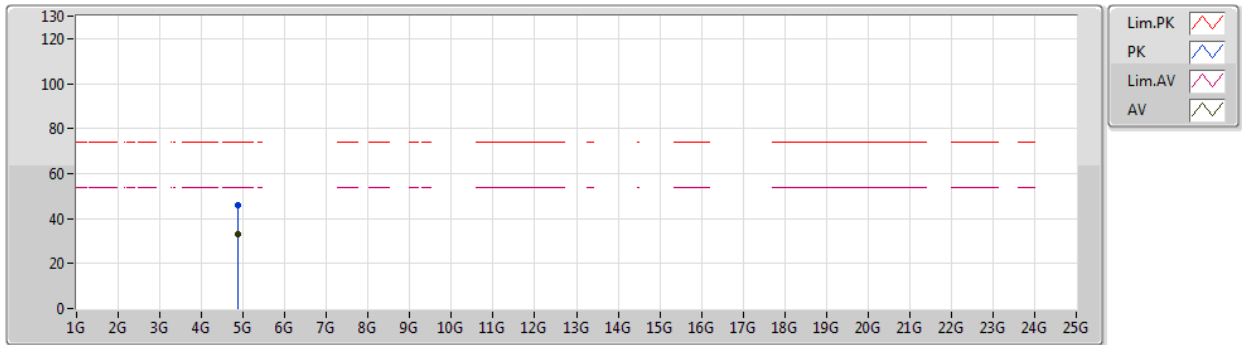


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	48.63	54.00	-5.37	32.71	3	Horizontal	274	1.53	-	15.92	27.63	5.08	-
AV	2.4378G	102.27	Inf	-Inf	32.76	3	Horizontal	274	1.53	-	69.51	27.60	5.16	-
AV	2.4838G	47.25	54.00	-6.75	32.83	3	Horizontal	274	1.53	-	14.42	27.60	5.23	-
PK	2.3874G	62.73	74.00	-11.27	32.71	3	Horizontal	274	1.53	-	30.02	27.64	5.07	-
PK	2.4358G	111.87	Inf	-Inf	32.75	3	Horizontal	274	1.53	-	79.12	27.60	5.15	-
PK	2.4954G	60.11	74.00	-13.89	32.84	3	Horizontal	274	1.53	-	27.27	27.60	5.24	-

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

09/06/2020

2437MHz_TX

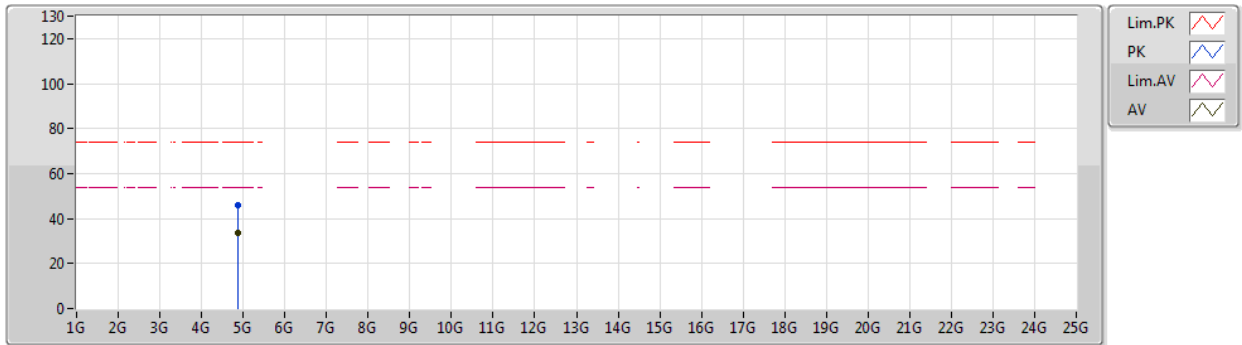


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88344G	33.10	54.00	-20.90	4.29	3	Vertical	15	1.50	-	28.81	31.18	7.38	34.27
PK	4.87524G	45.79	74.00	-28.21	4.28	3	Vertical	15	1.50	-	41.51	31.18	7.38	34.28

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

09/06/2020

2437MHz_TX

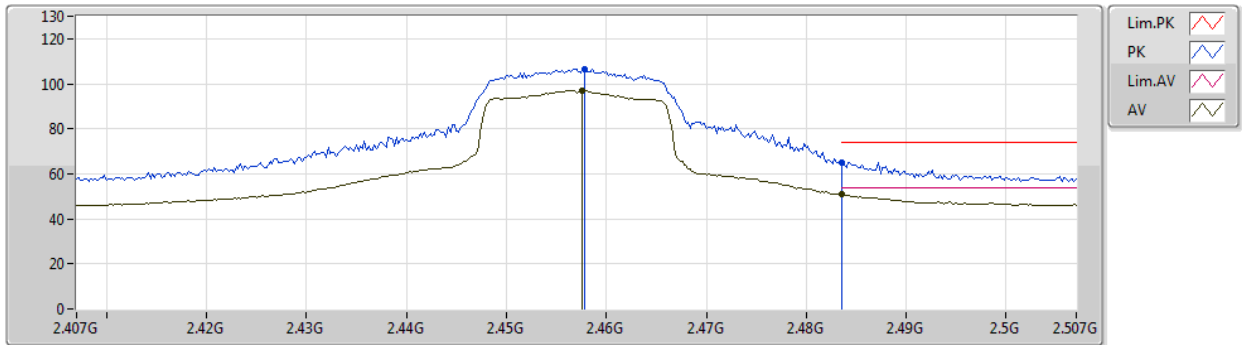


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88056G	33.35	54.00	-20.65	4.28	3	Horizontal	267	1.22	-	29.07	31.18	7.38	34.28
PK	4.87264G	46.13	74.00	-27.87	4.26	3	Horizontal	267	1.22	-	41.87	31.17	7.37	34.28

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

09/06/2020

2457MHz_TX

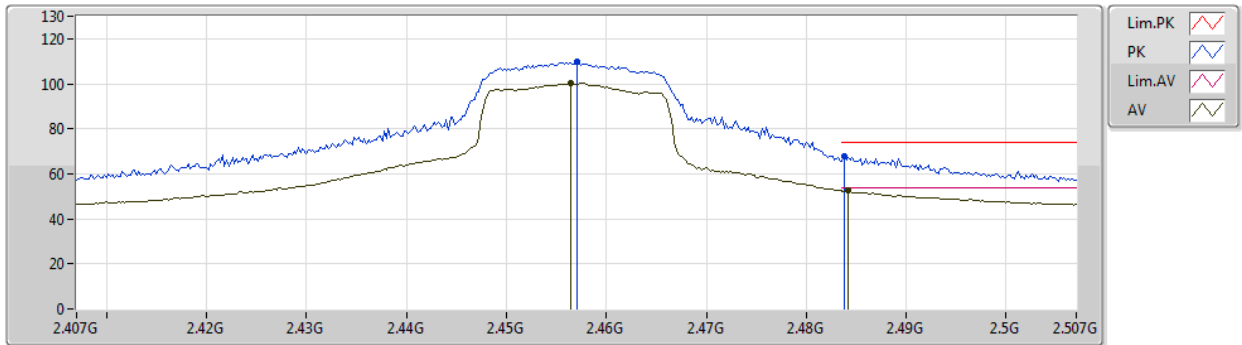


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4576G	97.13	Inf	-Inf	32.79	3	Vertical	166	1.50	-	64.34	27.60	5.19	-
AV	2.4835G	50.77	54.00	-3.23	32.83	3	Vertical	166	1.50	-	17.94	27.60	5.23	-
PK	2.4578G	106.55	Inf	-Inf	32.79	3	Vertical	166	1.50	-	73.76	27.60	5.19	-
PK	2.4835G	65.28	74.00	-8.72	32.83	3	Vertical	166	1.50	-	32.45	27.60	5.23	-

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

09/06/2020

2457MHz_TX

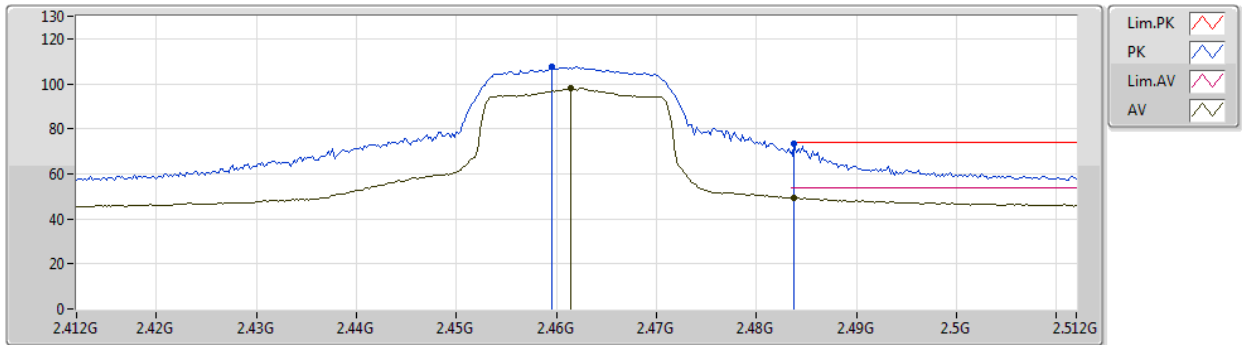


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4564G	100.40	Inf	-Inf	32.78	3	Horizontal	275	1.26	-	67.62	27.60	5.18	-
AV	2.4842G	52.46	54.00	-1.54	32.83	3	Horizontal	275	1.26	-	19.63	27.60	5.23	-
PK	2.457G	109.60	Inf	-Inf	32.79	3	Horizontal	275	1.26	-	76.81	27.60	5.19	-
PK	2.4838G	67.69	74.00	-6.31	32.83	3	Horizontal	275	1.26	-	34.86	27.60	5.23	-

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

09/06/2020

2462MHz_TX

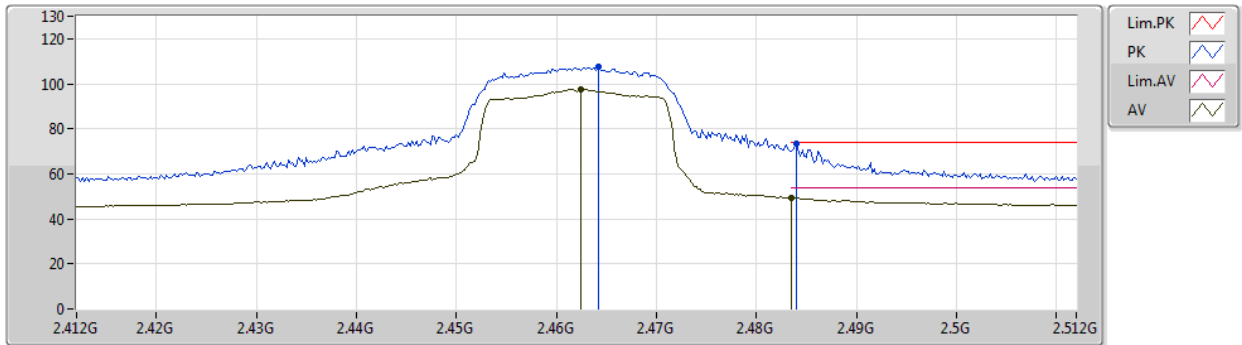


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4614G	97.89	Inf	-Inf	32.79	3	Vertical	150	2.84	-	65.10	27.60	5.19	-
AV	2.4838G	49.50	54.00	-4.50	32.83	3	Vertical	150	2.84	-	16.67	27.60	5.23	-
PK	2.4596G	107.78	Inf	-Inf	32.79	3	Vertical	150	2.84	-	74.99	27.60	5.19	-
PK	2.4838G	73.57	74.00	-0.43	32.83	3	Vertical	150	2.84	-	40.74	27.60	5.23	-

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

09/06/2020

2462MHz_TX

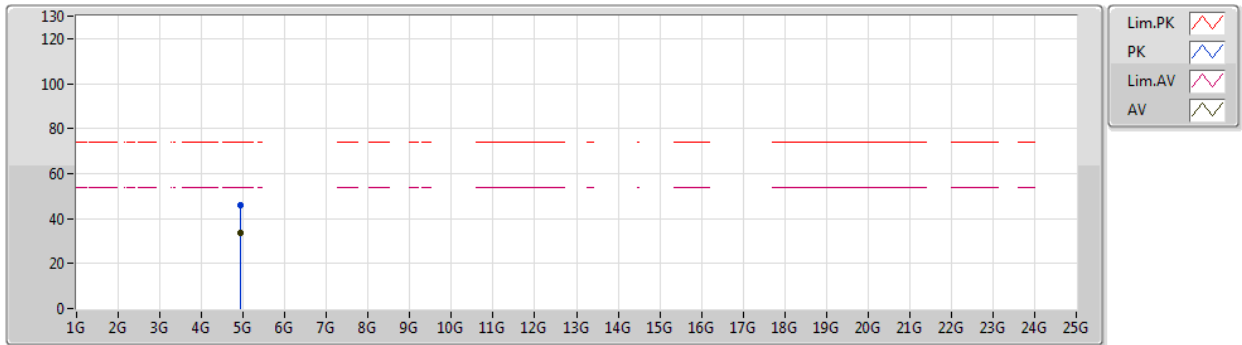


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4624G	97.66	Inf	-Inf	32.79	3	Horizontal	278	1.10	-	64.87	27.60	5.19	-
AV	2.4835G	49.31	54.00	-4.69	32.83	3	Horizontal	278	1.10	-	16.48	27.60	5.23	-
PK	2.4642G	107.72	Inf	-Inf	32.80	3	Horizontal	278	1.10	-	74.92	27.60	5.20	-
PK	2.484G	73.22	74.00	-0.78	32.83	3	Horizontal	278	1.10	-	40.39	27.60	5.23	-

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

09/06/2020

2462MHz_TX

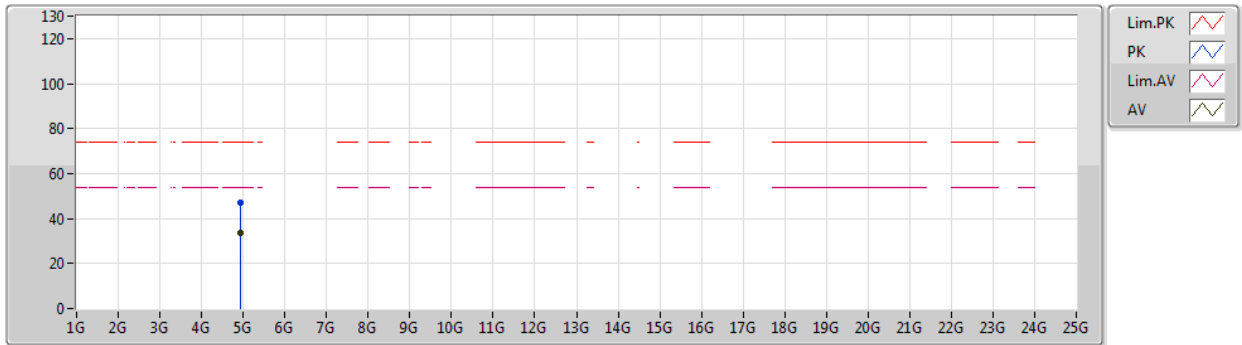


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92276G	33.52	54.00	-20.48	4.46	3	Vertical	198	2.27	-	29.06	31.27	7.42	34.23
PK	4.93224G	45.90	74.00	-28.10	4.52	3	Vertical	198	2.27	-	41.38	31.30	7.43	34.21

802.11n HT20_Nss1,(MCS0)_1TX(Port2)

09/06/2020

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	4.92404G	33.41	54.00	-20.59	4.47	3	Horizontal	274	1.46	-	28.94	31.27	7.42	34.22
PK	4.92816G	47.27	74.00	-26.73	4.49	3	Horizontal	274	1.46	-	42.78	31.28	7.43	34.22



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	Pass	PK	55.22M	33.58	40.00	-6.42	3	Vertical	360	1.00	-

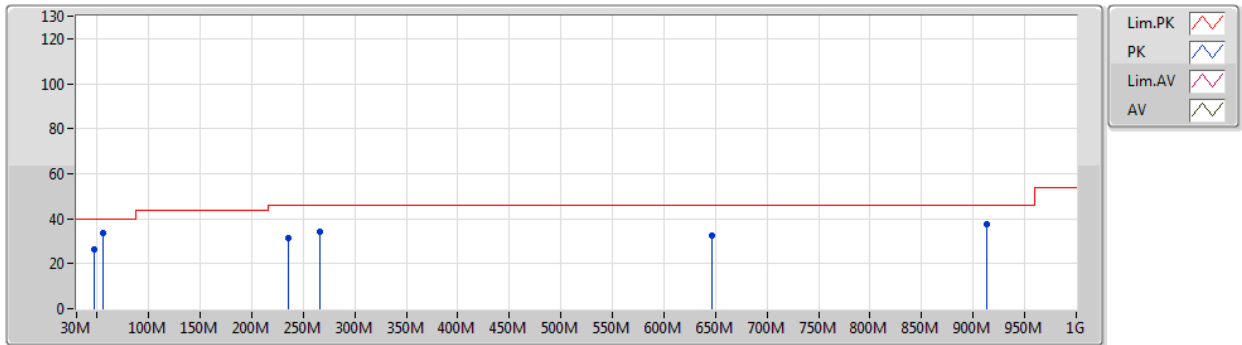
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	47.46M	26.38	40.00	-13.62	3	Vertical	360	1.00	-
2437MHz	Pass	PK	55.22M	33.58	40.00	-6.42	3	Vertical	360	1.00	-
2437MHz	Pass	PK	235.64M	31.22	46.00	-14.78	3	Vertical	360	1.00	-
2437MHz	Pass	PK	266.68M	34.17	46.00	-11.83	3	Vertical	360	1.00	-
2437MHz	Pass	PK	646.92M	32.47	46.00	-13.53	3	Vertical	360	1.00	-
2437MHz	Pass	PK	912.7M	37.78	46.00	-8.22	3	Vertical	360	1.00	-
2437MHz	Pass	PK	55.22M	29.80	40.00	-10.20	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	68.8M	32.23	40.00	-7.77	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	86.26M	29.88	40.00	-10.12	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	264.74M	28.44	46.00	-17.56	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	332.64M	30.41	46.00	-15.59	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	352.04M	33.40	46.00	-12.60	3	Horizontal	0	1.00	-

802.11n HT20_Nss1,(MCS0)_1RX(Port2)

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2437MHz_Switching power supply

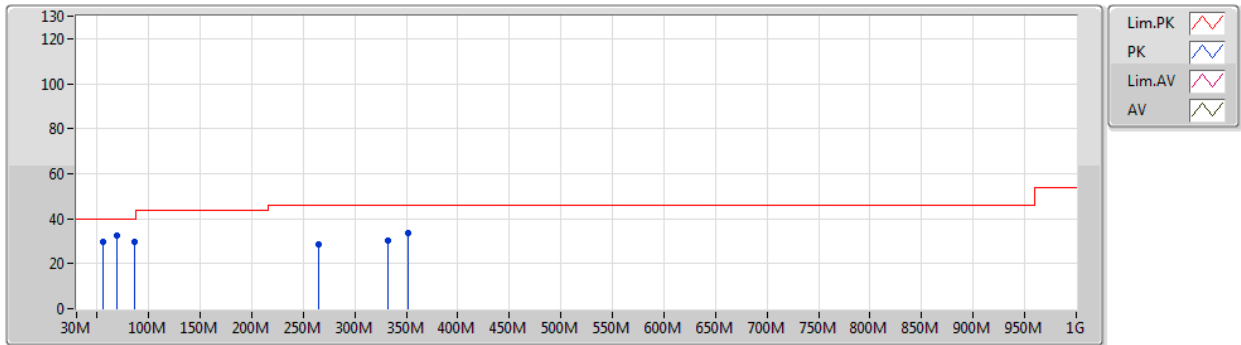


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	47.46M	26.38	40.00	-13.62	-22.23	3	Vertical	360	1.00	-	48.61	14.46	0.50	37.19
PK	55.22M	33.58	40.00	-6.42	-25.08	3	Vertical	360	1.00	-	58.66	11.41	0.60	37.09
PK	235.64M	31.22	46.00	-14.78	-19.31	3	Vertical	360	1.00	-	50.53	15.86	1.24	36.41
PK	266.68M	34.17	46.00	-11.83	-16.51	3	Vertical	360	1.00	-	50.68	18.60	1.33	36.44
PK	646.92M	32.47	46.00	-13.53	-9.42	3	Vertical	360	1.00	-	41.89	25.46	2.20	37.08
PK	912.7M	37.78	46.00	-8.22	-6.53	3	Vertical	360	1.00	-	44.31	28.09	2.83	37.45

802.11n HT20_Nss1,(MCS0)_1RX(Port2)

11/06/2020

2437MHz_Switching power supply



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	55.22M	29.80	40.00	-10.20	-25.08	3	Horizontal	0	1.00	-	54.88	11.41	0.60	37.09
PK	68.8M	32.23	40.00	-7.77	-25.20	3	Horizontal	0	1.00	-	57.43	11.22	0.60	37.02
PK	86.26M	29.88	40.00	-10.12	-22.81	3	Horizontal	0	1.00	-	52.69	13.38	0.70	36.89
PK	264.74M	28.44	46.00	-17.56	-16.31	3	Horizontal	0	1.00	-	44.75	18.79	1.33	36.43
PK	332.64M	30.41	46.00	-15.59	-16.21	3	Horizontal	0	1.00	-	46.62	18.85	1.47	36.53
PK	352.04M	33.40	46.00	-12.60	-15.51	3	Horizontal	0	1.00	-	48.91	19.49	1.51	36.51



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	Pass	AV	6.472G	35.36	54.00	-18.64	3	Horizontal	0	1.00	-

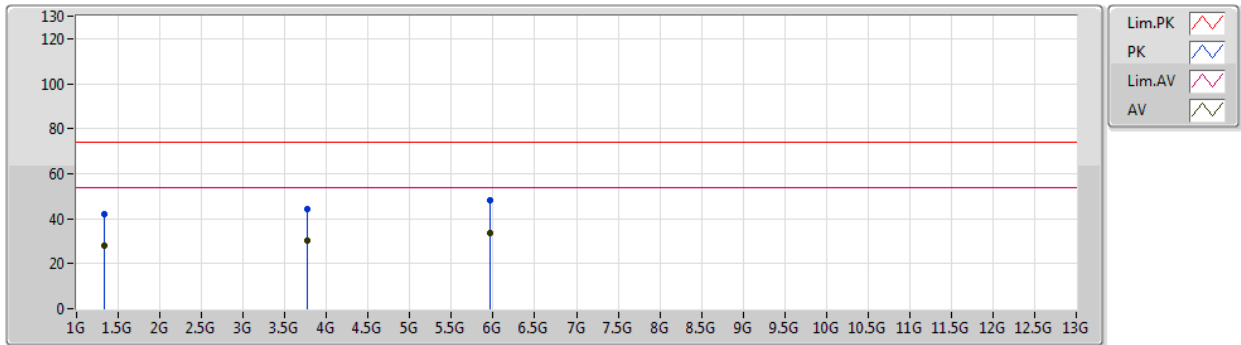
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	AV	1.336G	27.79	54.00	-26.21	3	Vertical	360	1.00	-
2437MHz	Pass	AV	3.772G	30.17	54.00	-23.83	3	Vertical	360	1.00	-
2437MHz	Pass	AV	5.968G	33.54	54.00	-20.46	3	Vertical	360	1.00	-
2437MHz	Pass	PK	1.336G	41.79	74.00	-32.21	3	Vertical	360	1.00	-
2437MHz	Pass	PK	3.772G	44.18	74.00	-29.82	3	Vertical	360	1.00	-
2437MHz	Pass	PK	5.968G	48.08	74.00	-25.92	3	Vertical	360	1.00	-
2437MHz	Pass	AV	1.42G	25.31	54.00	-28.69	3	Horizontal	0	1.00	-
2437MHz	Pass	AV	3.64G	29.44	54.00	-24.56	3	Horizontal	0	1.00	-
2437MHz	Pass	AV	6.472G	35.36	54.00	-18.64	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	1.42G	38.91	74.00	-35.09	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	3.64G	44.04	74.00	-29.96	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	6.472G	49.05	74.00	-24.95	3	Horizontal	0	1.00	-

802.11n HT20_Nss1,(MCS0)_1RX(Port2)

11/06/2020

2437MHz_RX

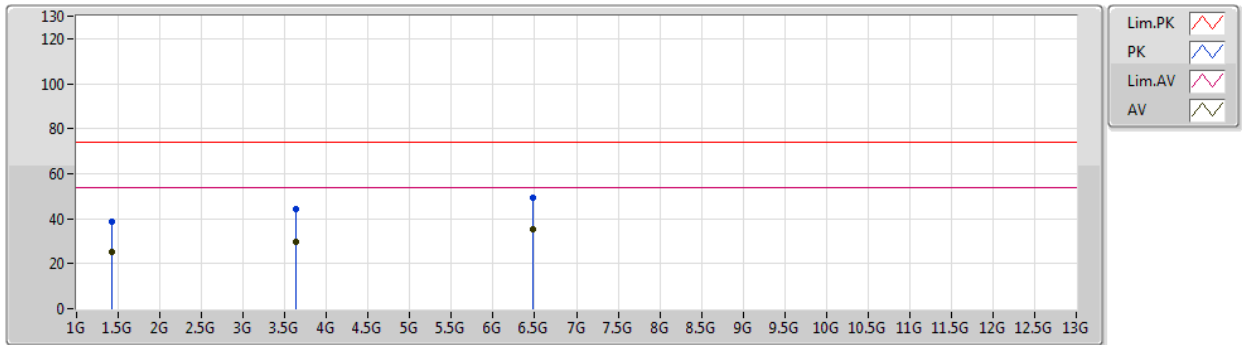


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	1.336G	27.79	54.00	-26.21	-5.19	3	Vertical	360	1.00	-	32.98	25.84	3.77	34.80
AV	3.772G	30.17	54.00	-23.83	1.64	3	Vertical	360	1.00	-	28.53	29.27	6.77	34.40
AV	5.968G	33.54	54.00	-20.46	6.26	3	Vertical	360	1.00	-	27.28	32.50	7.98	34.22
PK	1.336G	41.79	74.00	-32.21	-5.19	3	Vertical	360	1.00	-	46.98	25.84	3.77	34.80
PK	3.772G	44.18	74.00	-29.82	1.64	3	Vertical	360	1.00	-	42.54	29.27	6.77	34.40
PK	5.968G	48.08	74.00	-25.92	6.26	3	Vertical	360	1.00	-	41.82	32.50	7.98	34.22

802.11n HT20_Nss1,(MCS0)_1RX(Port2)

11/06/2020

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	1.42G	25.31	54.00	-28.69	-4.72	3	Horizontal	0	1.00	-	30.03	25.82	3.92	34.46
AV	3.64G	29.44	54.00	-24.56	1.36	3	Horizontal	0	1.00	-	28.08	29.14	6.64	34.42
AV	6.472G	35.36	54.00	-18.64	7.81	3	Horizontal	0	1.00	-	27.55	34.09	8.14	34.42
PK	1.42G	38.91	74.00	-35.09	-4.72	3	Horizontal	0	1.00	-	43.63	25.82	3.92	34.46
PK	3.64G	44.04	74.00	-29.96	1.36	3	Horizontal	0	1.00	-	42.68	29.14	6.64	34.42
PK	6.472G	49.05	74.00	-24.95	7.81	3	Horizontal	0	1.00	-	41.24	34.09	8.14	34.42



Maximum Permissible Exposure Result

Appendix H

Exposure Environment: General Population / Uncontrolled Exposure

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	3.15	18.62	21.77	0.50	22.27	0.16866	20	0.03355	1.00000
2.4G;D1D	3.15	18.88	22.03	0.50	22.53	0.17906	20	0.03562	1.00000