



FCC Test Report

FCC ID : AUO-LABQ3
Equipment : LabQuest 3
Brand Name : Vernier
Model Name : LABQ3
Applicant : Vernier Software & Technology
13979 SW Millikan Way Beaverton, OR 97005, USA
Manufacturer : Vernier Software & Technology
13979 SW Millikan Way Beaverton, OR 97005, USA
Standard : 47 CFR FCC Part 15.247

The product was received on Aug. 19, 2020, and testing was started from Aug. 26, 2020 and completed on Sep. 15, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Information.....	5
1.2 Testing Applied Standards	7
1.3 Testing Location Information	7
1.4 Measurement Uncertainty	7
2 TEST CONFIGURATION OF EUT.....	8
2.1 Test Condition	8
2.2 Test Channel Mode	8
2.3 The Worst Case Measurement Configuration.....	9
2.4 Accessories	10
2.5 Support Equipment.....	10
2.6 Test Setup Diagram	11
3 TRANSMITTER TEST RESULT	13
3.1 AC Power-line Conducted Emissions	13
3.2 DTS Bandwidth.....	15
3.3 Maximum Conducted Output Power	16
3.4 Power Spectral Density	18
3.5 Emissions in Non-restricted Frequency Bands	19
3.6 Emissions in Restricted Frequency Bands.....	20
4 TEST EQUIPMENT AND CALIBRATION DATA	24
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPENDIX B. TEST RESULTS OF DTS BANDWIDTH	
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPENDIX D. TEST RESULTS OF POWER SPECTRAL DENSITY	
APPENDIX E. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS	
APPENDIX F. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS	
APPENDIX G. TEST PHOTOS	
PHOTOGRAPHS OF EUT V01	



History of this test report

Report No.	Version	Description	Issued Date
FR081907AC	01	Initial issue of report	Oct. 28, 2020

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: Sam Tsai

Report Producer: Jenny Yang

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	INPAQ	ACA-5036-A2-CC-S	Chip Antenna	N/A

Ant.	Port	Gain (dBi)	
		2.4G	BT
1	1	3	3

Note 1: The EUT has one antenna.

For 2.4GHz function:

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

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

For BT function:

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

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

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11b_Nss1,(1Mbps)_1TX	0.902	0.45	4.316m	300
802.11g_Nss1,(6Mbps)_1TX	0.581	2.36	715u	3k
802.11n HT20_Nss1,(MCS0)_1TX	0.723	1.41	1.311m	1k
802.11n HT40_Nss1,(MCS0)_1TX	0.574	2.41	651.25u	3k

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

1.2 Testing Applied Standards

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

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

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

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 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	
Test site Designation No. TW1190 with FCC.				
☐	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	
Test site Designation No. TW0006 with FCC.				
☒	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 site Designation No. TW1097 with FCC.				

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward Wang	23.6~24.9°C / 56~ 60%	10/Sep/2020
RF Conducted	TH01-HY	Vivi Jiang	20.1~26.9°C / 50~60%	26/Aug/2020~ 15/Sep/2020
Radiated	03CH09-HY	Lego Lin	23.2~25.1°C / 56~ 60%	07/Sep/2020~ 08/Sep/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	120V

2.2 Test Channel Mode

Test Software Version	Dos1.6
-----------------------	--------

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	12
2437MHz	11
2462MHz	11
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	10
2417MHz	12
2437MHz	12
2457MHz	12
2462MHz	8
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	9
2417MHz	11
2437MHz	11
2457MHz	11
2462MHz	8
802.11n HT40_Nss1,(MCS0)_1TX	-
2422MHz	7
2427MHz	9
2437MHz	9
2447MHz	9
2452MHz	6

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
1	AC Adapter mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	AC Adapter mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	

2.4 Accessories

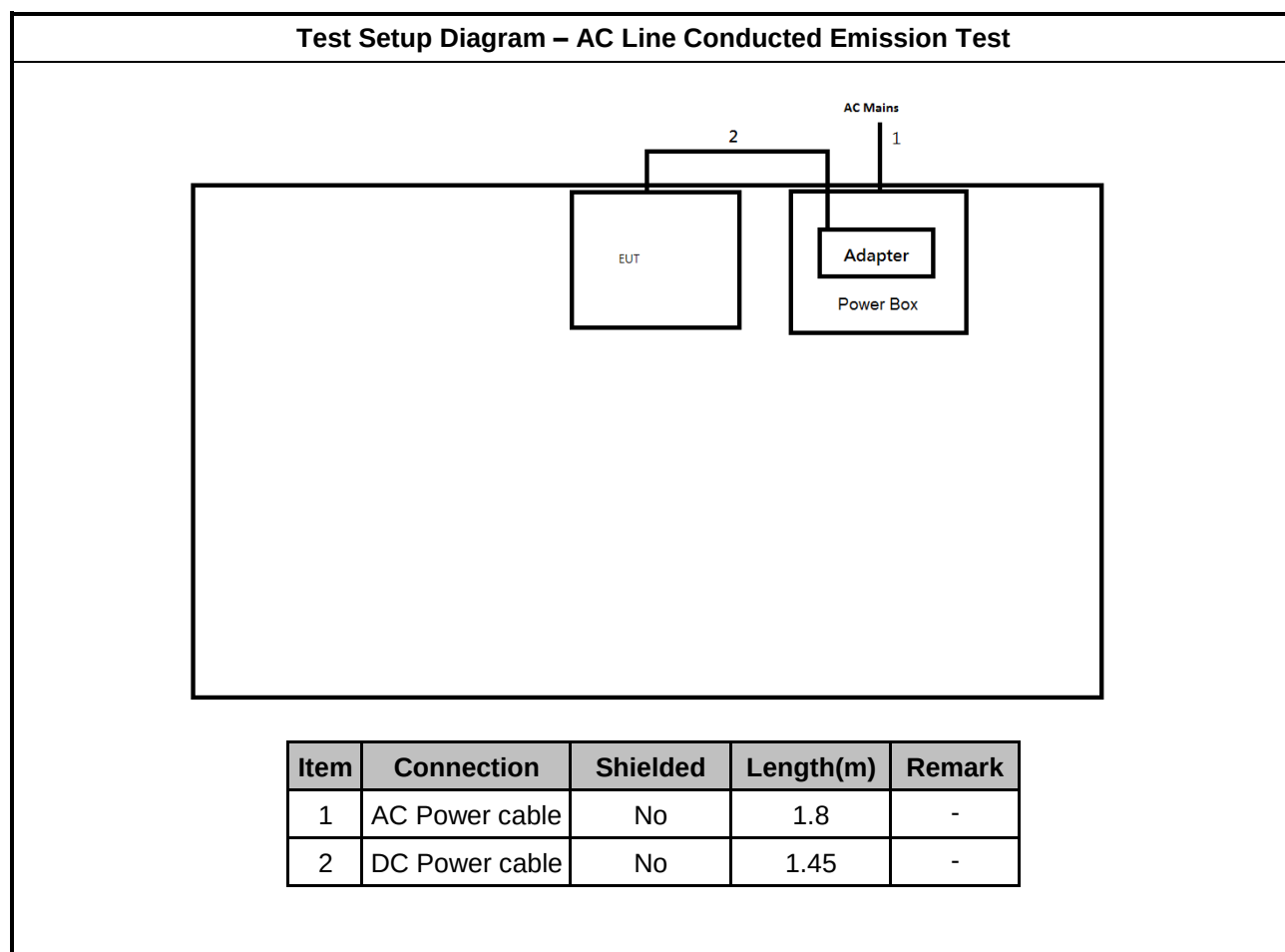
Accessories				
AC Adapter	Brand Name	N/A	Model Name	FJ-SW1260502500DN
	Manufacturer	SHENZHEN FUJIA APPLIANCE CO., LTD.	P/N	S6-052ASP
	Power Rating	I/P: 100 - 240 Vac, 0.4 A, O/P: 5Vdc, 2.5A		
	Power Cord	1.45 meter, non-shielded cable, w/o ferrite core		

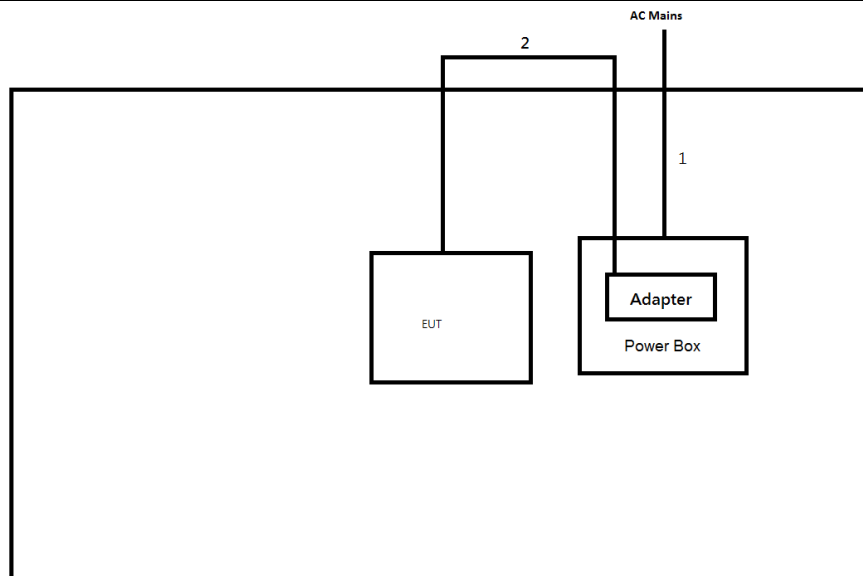
Reminder: Regarding to more detail and other information, please refer to user manual.

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


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.45	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

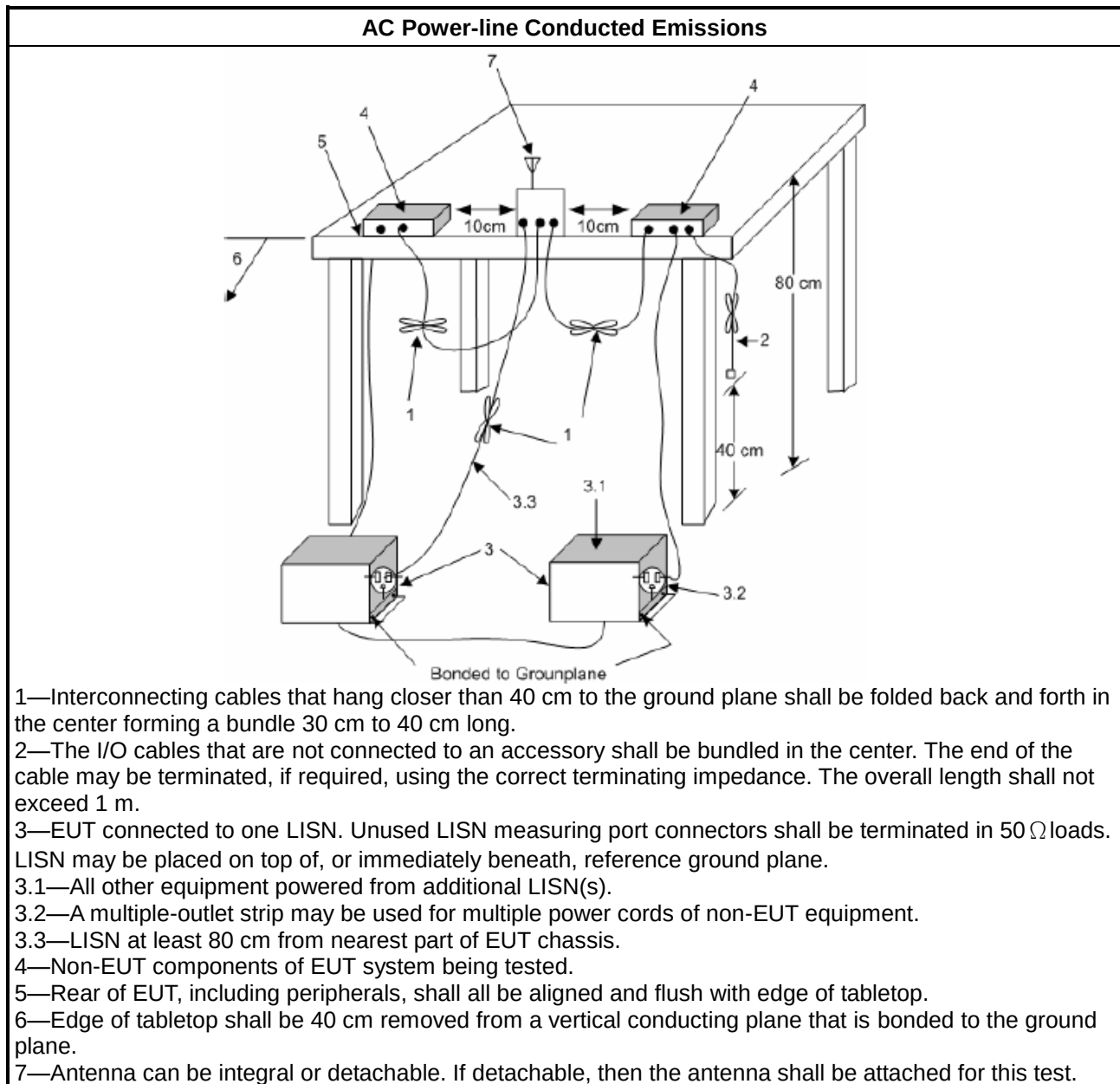
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

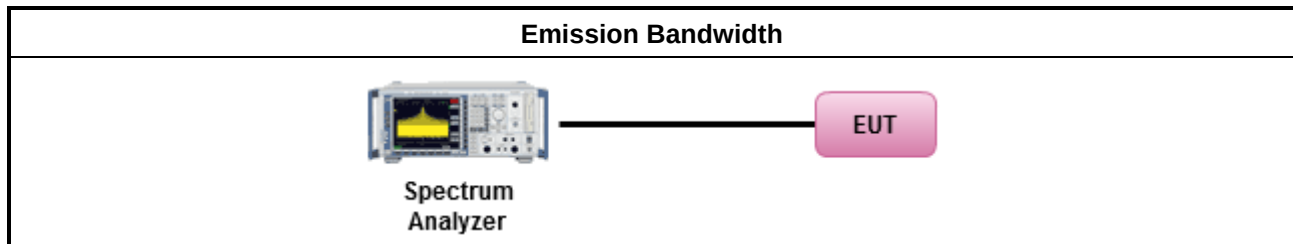
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

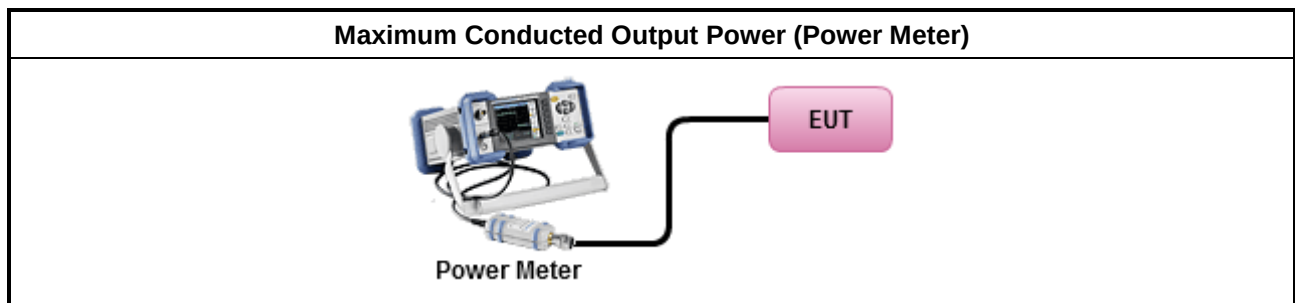
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit	
▪	Power Spectral Density (PSD) $\leq$ 8 dBm/3kHz

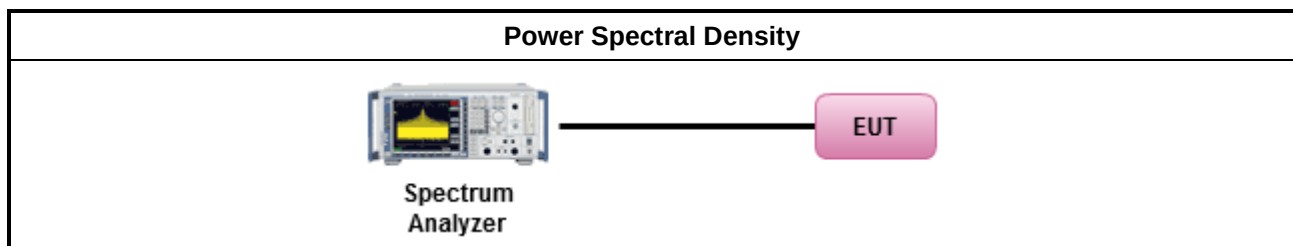
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

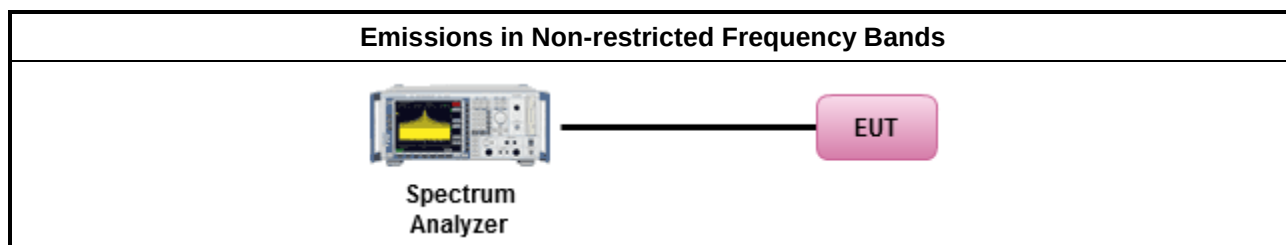
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

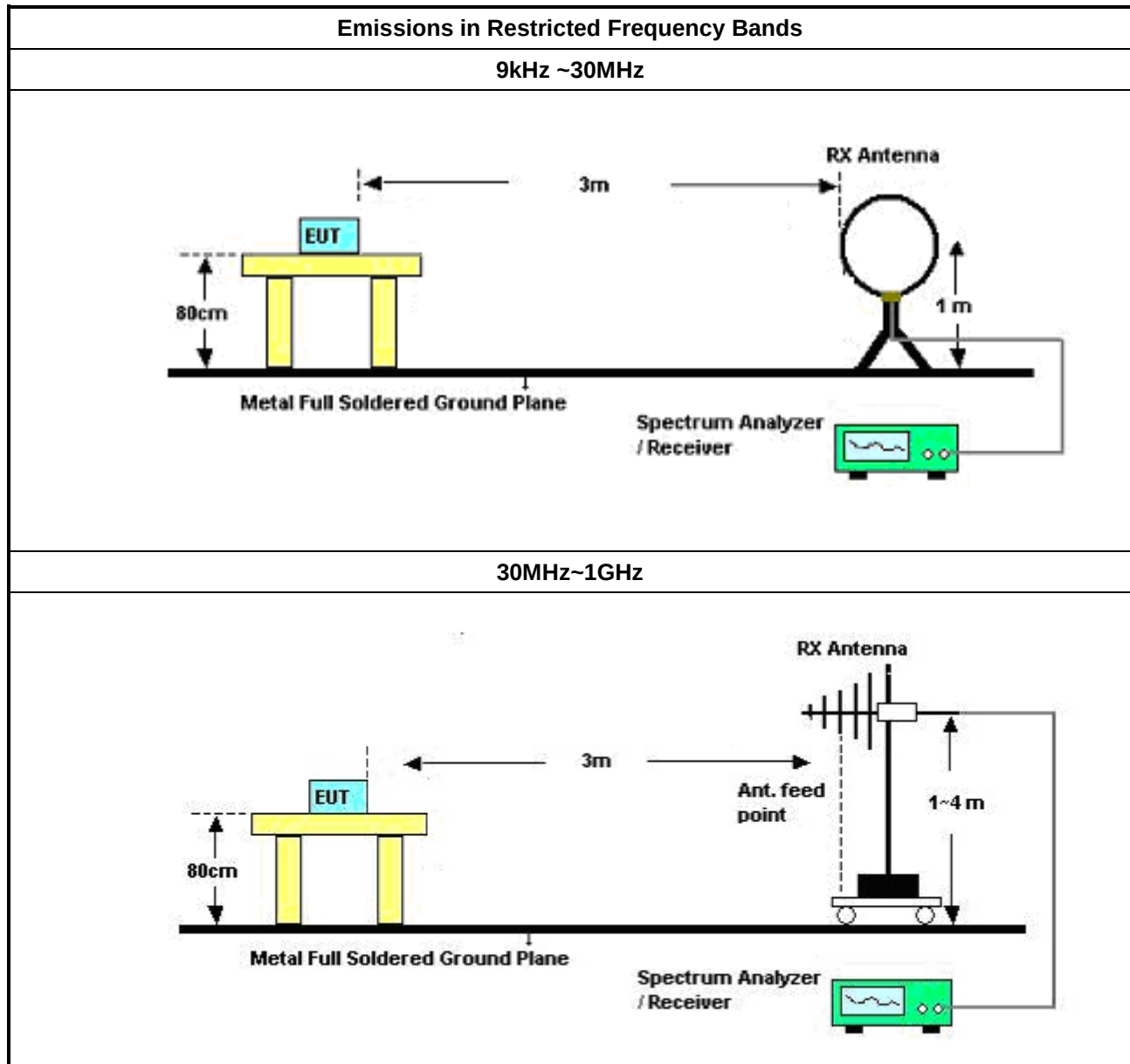
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

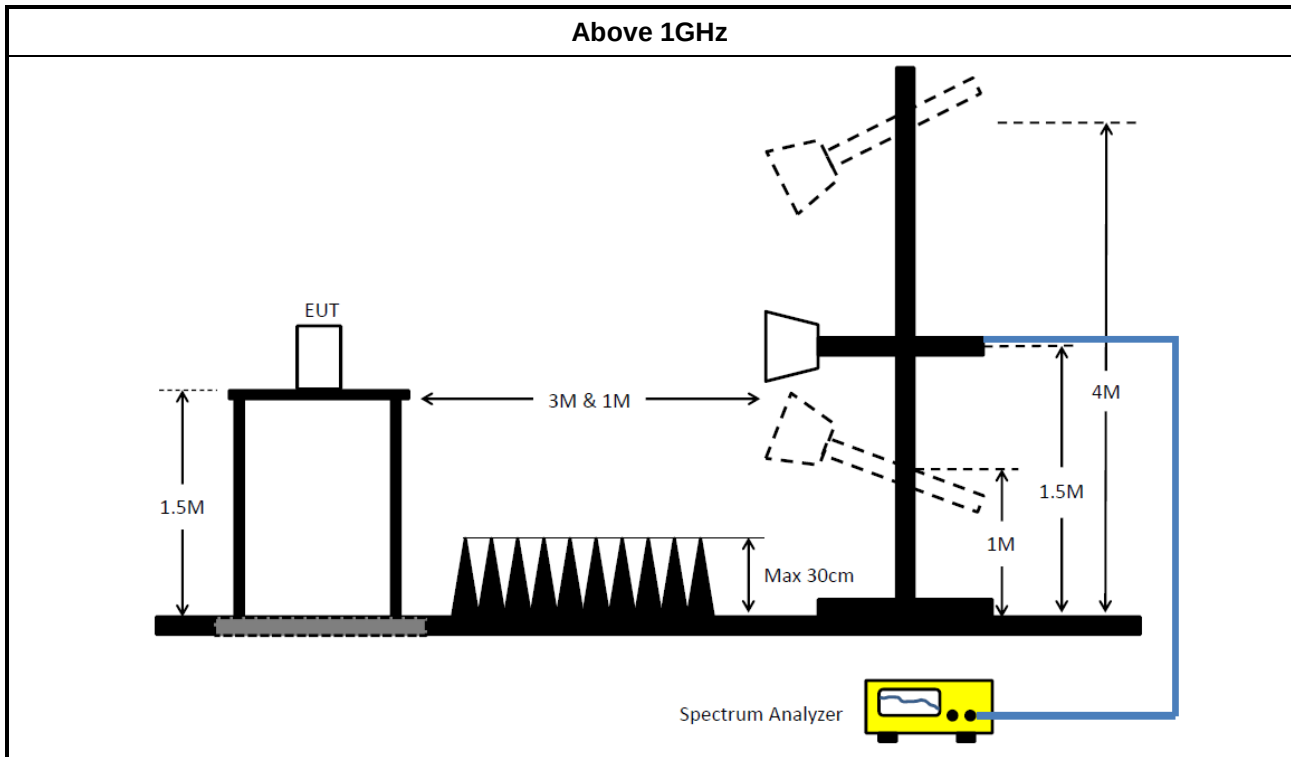
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.5 Test Setup





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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	29/May/2020	28/May/2021
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	05/Nov/2019	04/Nov/2020
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	31/Aug/2020	30/Aug/2021
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	24/Sep/2019	23/Sep/2020

NCR: Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	19/Mar/2020	18/Mar/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	11/Nov/2020
Pulse Sensor	Anritsu	MA2411B	917017	300MHz~40GHz	17/Feb/2020	16/Feb/2021
Power Meter	Anritsu	ML2495A	949003	300MHz~40GHz	17/Feb/2020	16/Feb/2021

**Instrument for Radiated Test**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	27/Mar/2020	26/Mar/2021
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	19/Mar/2020	18/Mar/2021
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	17/Aug/2020	16/Aug/2021
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	14/Apr/2020	13/Apr/2021
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	24/Jun/2020	23/Jun/2021
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MTJ6 102-05	35418 & 3	30MHz~1GHz	30/Sep/2019	29/Sep/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	28/May/2020	27/May/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/4	9kHz~30MHz	03/Sep/2020	02/Sep/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/4	30MHz~1GHz	12/Feb/2020	11/Feb/2021
RF Cable-R03m	HUBER+ SUHNER	SUCOFLEX104	324530/4+17173/4	1GHz~40GHz	12/Feb/2020	11/Feb/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	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
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	29/May/2020	28/May/2021



Conducted Emissions at Powerline

Appendix A

Summary

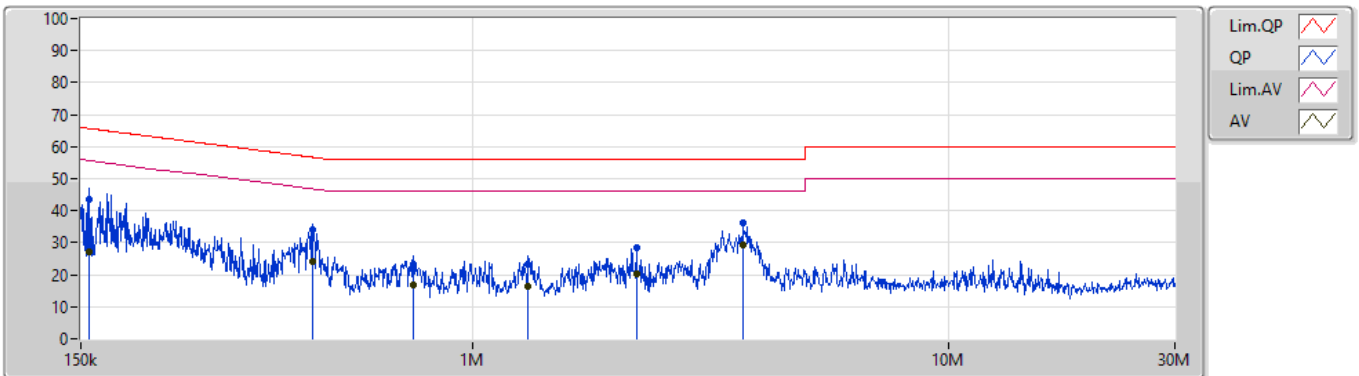
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	3.76M	29.45	46.00	-16.55	Neutral

Mode Configure

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	156.109k	43.56	65.67	-22.11	Line	-
Mode 1	Pass	AV	156.109k	27.36	55.67	-28.31	Line	-
Mode 1	Pass	QP	462.379k	33.97	56.65	-22.68	Line	-
Mode 1	Pass	AV	462.379k	24.18	46.65	-22.47	Line	-
Mode 1	Pass	QP	752.508k	23.41	56.00	-32.59	Line	-
Mode 1	Pass	AV	752.508k	16.64	46.00	-29.36	Line	-
Mode 1	Pass	QP	1.311M	23.13	56.00	-32.87	Line	-
Mode 1	Pass	AV	1.311M	16.56	46.00	-29.44	Line	-
Mode 1	Pass	QP	2.211M	28.42	56.00	-27.58	Line	-
Mode 1	Pass	AV	2.211M	20.19	46.00	-25.81	Line	-
Mode 1	Pass	QP	3.701M	36.19	56.00	-19.81	Line	-
Mode 1	Pass	AV	3.701M	29.25	46.00	-16.75	Line	"Worst"
Mode 1	Pass	QP	156.734k	43.33	65.64	-22.31	Neutral	-
Mode 1	Pass	AV	156.734k	29.05	55.64	-26.59	Neutral	-
Mode 1	Pass	QP	464.229k	33.58	56.61	-23.03	Neutral	-
Mode 1	Pass	AV	464.229k	27.54	46.61	-19.07	Neutral	-
Mode 1	Pass	QP	915.089k	23.57	56.00	-32.43	Neutral	-
Mode 1	Pass	AV	915.089k	15.78	46.00	-30.22	Neutral	-
Mode 1	Pass	QP	1.348M	23.07	56.00	-32.93	Neutral	-
Mode 1	Pass	AV	1.348M	16.57	46.00	-29.43	Neutral	-
Mode 1	Pass	QP	2.247M	26.32	56.00	-29.68	Neutral	-
Mode 1	Pass	AV	2.247M	19.81	46.00	-26.19	Neutral	-
Mode 1	Pass	QP	3.76M	34.38	56.00	-21.62	Neutral	-
Mode 1	Pass	AV	3.76M	29.45	46.00	-16.55	Neutral	"Worst"

Conducted Emissions at Powerline_Mode 1

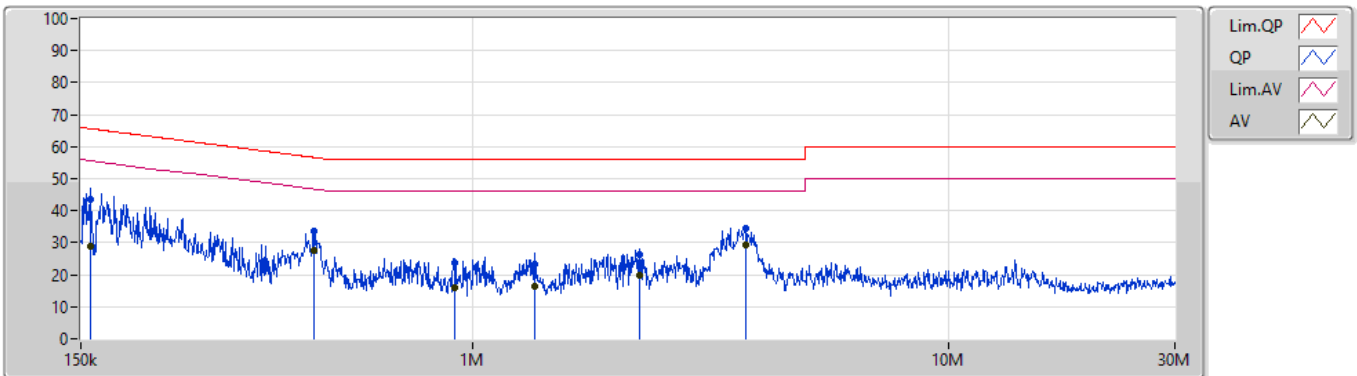
10/09/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	156.109k	43.56	65.67	-22.11	19.54	Line	-	24.02	9.66	0.01	9.87			
AV	156.109k	27.36	55.67	-28.31	19.54	Line	-	7.82	9.66	0.01	9.87			
QP	462.379k	33.97	56.65	-22.68	19.53	Line	-	14.44	9.64	0.02	9.87			
AV	462.379k	24.18	46.65	-22.47	19.53	Line	-	4.65	9.64	0.02	9.87			
QP	752.508k	23.41	56.00	-32.59	19.55	Line	-	3.86	9.64	0.04	9.87			
AV	752.508k	16.64	46.00	-29.36	19.55	Line	-	-2.91	9.64	0.04	9.87			
QP	1.311M	23.13	56.00	-32.87	19.58	Line	-	3.55	9.64	0.06	9.88			
AV	1.311M	16.56	46.00	-29.44	19.58	Line	-	-3.02	9.64	0.06	9.88			
QP	2.211M	28.42	56.00	-27.58	19.61	Line	-	8.81	9.65	0.09	9.87			
AV	2.211M	20.19	46.00	-25.81	19.61	Line	-	0.58	9.65	0.09	9.87			
QP	3.701M	36.19	56.00	-19.81	19.66	Line	-	16.53	9.66	0.12	9.88			
AV	3.701M	29.25	46.00	-16.75	19.66	Line	"Worst"	9.59	9.66	0.12	9.88			

Conducted Emissions at Powerline_Mode 1

10/09/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	156.734k	43.33	65.64	-22.31	19.53	Neutral	-	23.80	9.65	0.01	9.87			
AV	156.734k	29.05	55.64	-26.59	19.53	Neutral	-	9.52	9.65	0.01	9.87			
QP	464.229k	33.58	56.61	-23.03	19.52	Neutral	-	14.06	9.63	0.02	9.87			
AV	464.229k	27.54	46.61	-19.07	19.52	Neutral	-	8.02	9.63	0.02	9.87			
QP	915.089k	23.57	56.00	-32.43	19.56	Neutral	-	4.01	9.63	0.05	9.88			
AV	915.089k	15.78	46.00	-30.22	19.56	Neutral	-	-3.78	9.63	0.05	9.88			
QP	1.348M	23.07	56.00	-32.93	19.58	Neutral	-	3.49	9.64	0.06	9.88			
AV	1.348M	16.57	46.00	-29.43	19.58	Neutral	-	-3.01	9.64	0.06	9.88			
QP	2.247M	26.32	56.00	-29.68	19.61	Neutral	-	6.71	9.65	0.09	9.87			
AV	2.247M	19.81	46.00	-26.19	19.61	Neutral	-	0.20	9.65	0.09	9.87			
QP	3.76M	34.38	56.00	-21.62	19.66	Neutral	-	14.72	9.66	0.12	9.88			
AV	3.76M	29.45	46.00	-16.55	19.66	Neutral	"Worst"	9.79	9.66	0.12	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	10.025M	14.633M	14M6G1D	9.55M	14.533M
802.11g_Nss1,(6Mbps)_1TX	15.35M	16.432M	16M4D1D	15.025M	16.372M
802.11n HT20_Nss1,(MCS0)_1TX	15.1M	17.571M	17M6D1D	15M	17.531M
802.11n HT40_Nss1,(MCS0)_1TX	35M	35.782M	35M8D1D	32.65M	35.742M

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

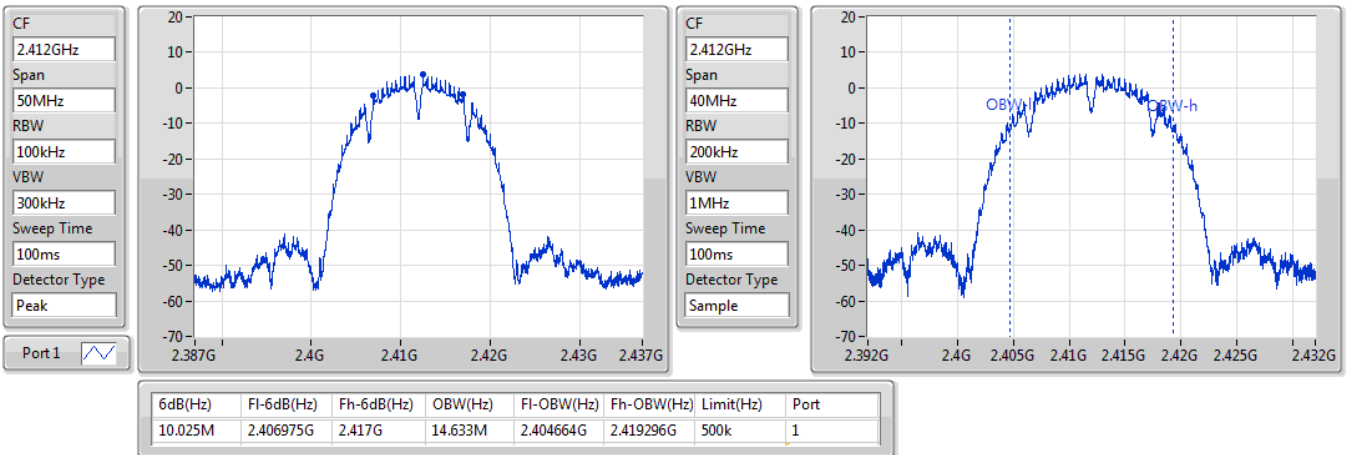
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	10.025M	14.633M
2417MHz				
2437MHz	Pass	500k	10.025M	14.533M
2457MHz				
2462MHz	Pass	500k	9.55M	14.553M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	15.35M	16.372M
2417MHz				
2437MHz	Pass	500k	15.05M	16.432M
2457MHz				
2462MHz	Pass	500k	15.025M	16.412M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	15M	17.571M
2417MHz				
2437MHz	Pass	500k	15.05M	17.531M
2457MHz				
2462MHz	Pass	500k	15.1M	17.551M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	35M	35.742M
2427MHz				
2437MHz	Pass	500k	32.65M	35.782M
2447MHz				
2452MHz	Pass	500k	35M	35.742M

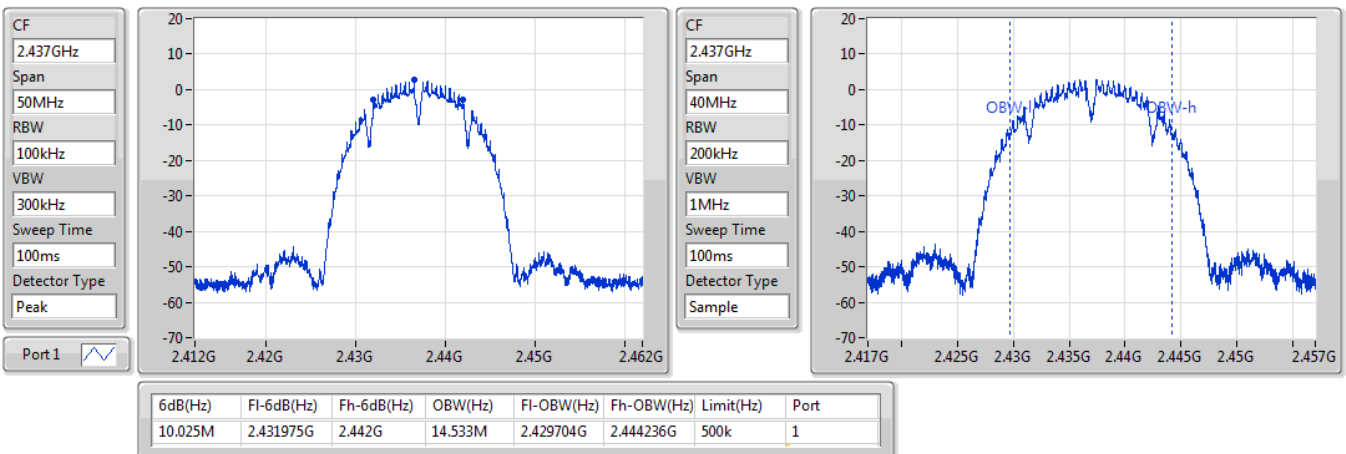
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_1TX
EBW
2412MHz

03/09/2020


802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

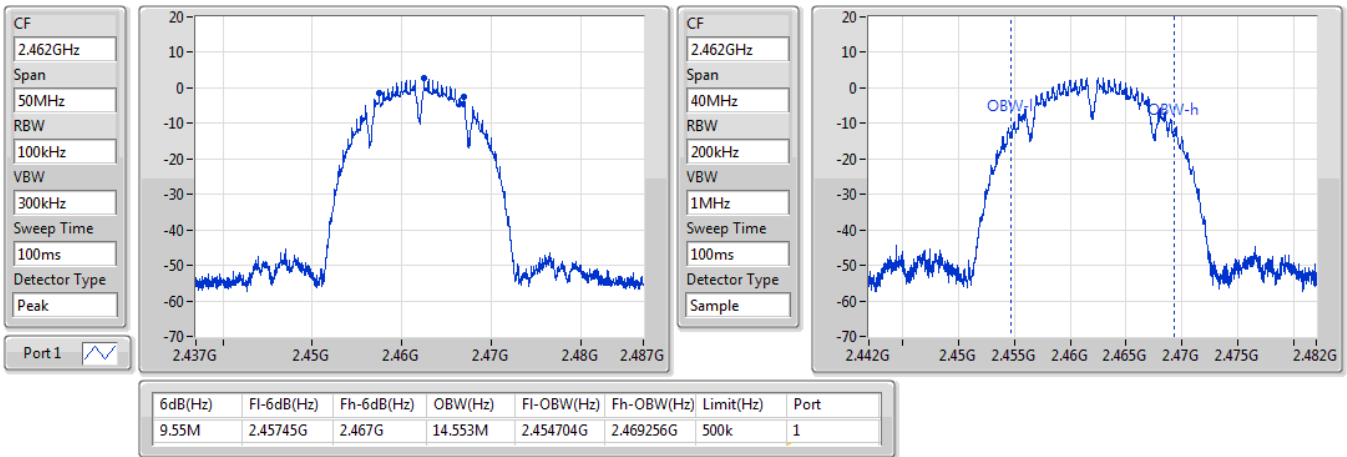
03/09/2020



802.11b_Nss1,(1Mbps)_1TX

EBW
2462MHz

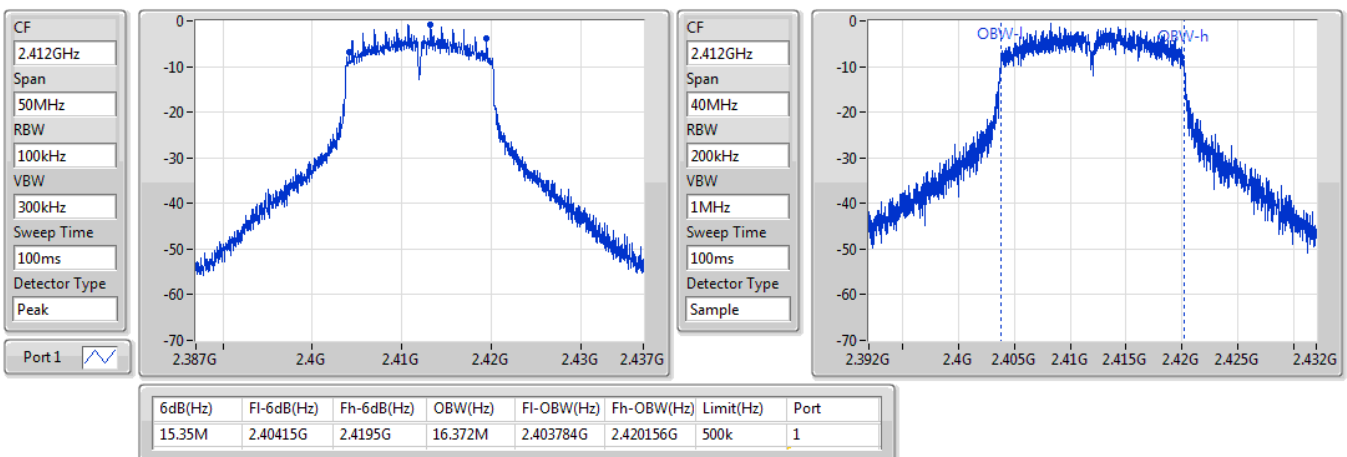
03/09/2020



802.11g_Nss1,(6Mbps)_1TX

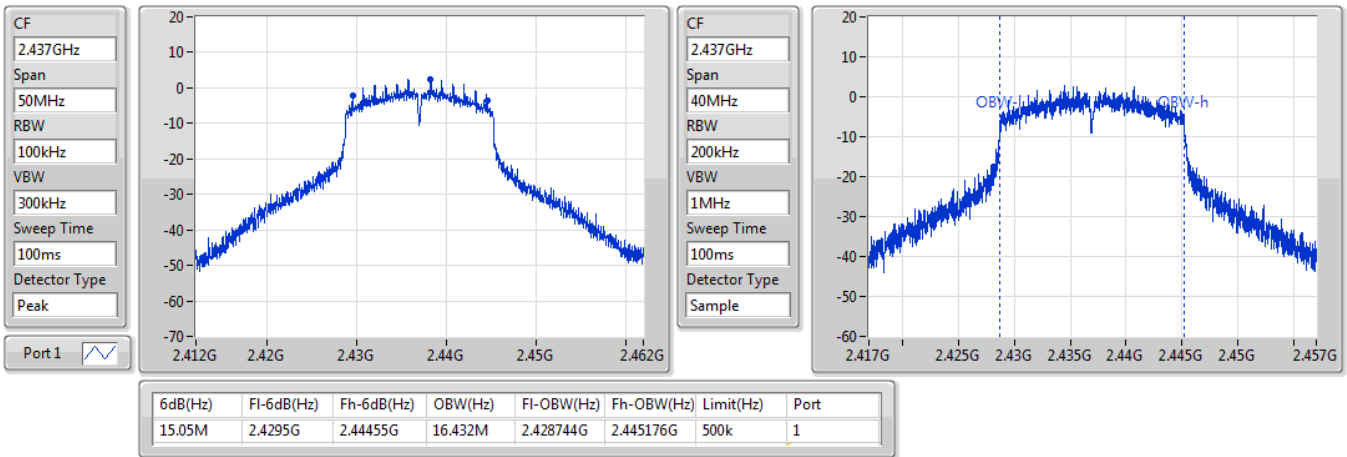
EBW
2412MHz

01/09/2020

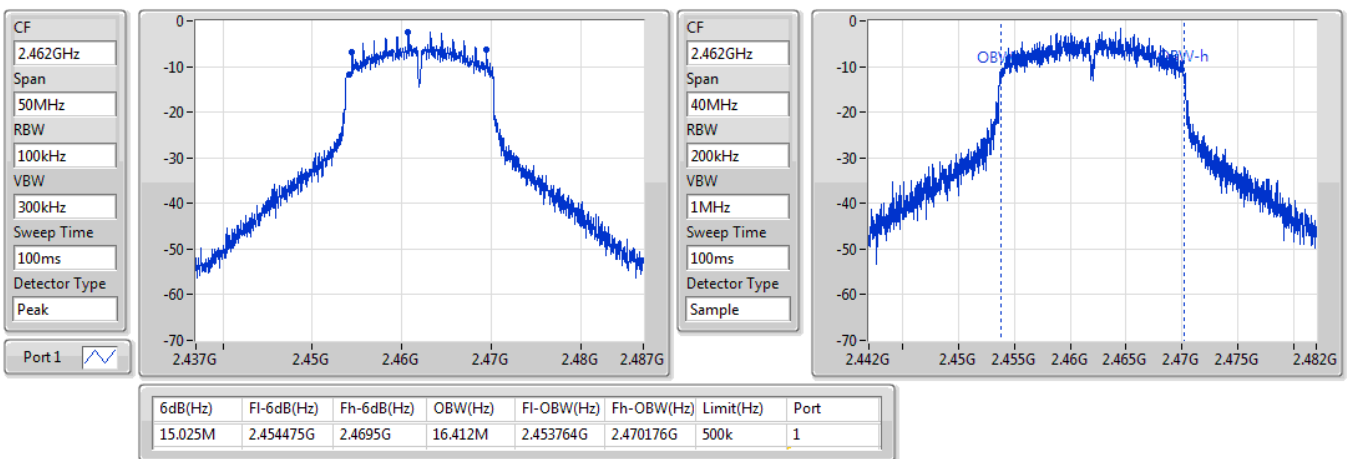


802.11g_Nss1,(6Mbps)_1TX
EBW
2437MHz

03/09/2020

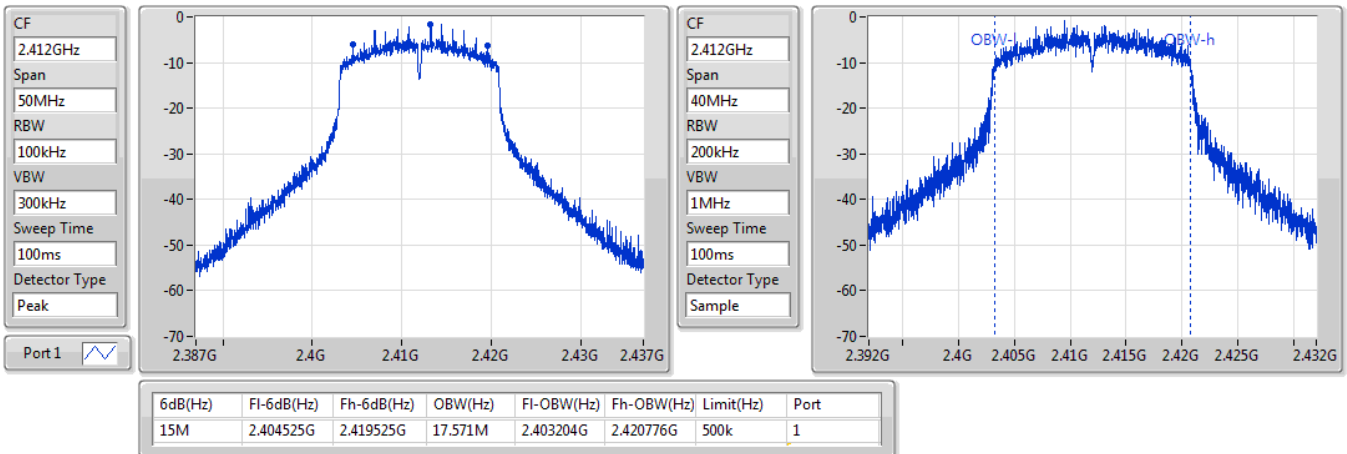

802.11g_Nss1,(6Mbps)_1TX
EBW
2462MHz

01/09/2020

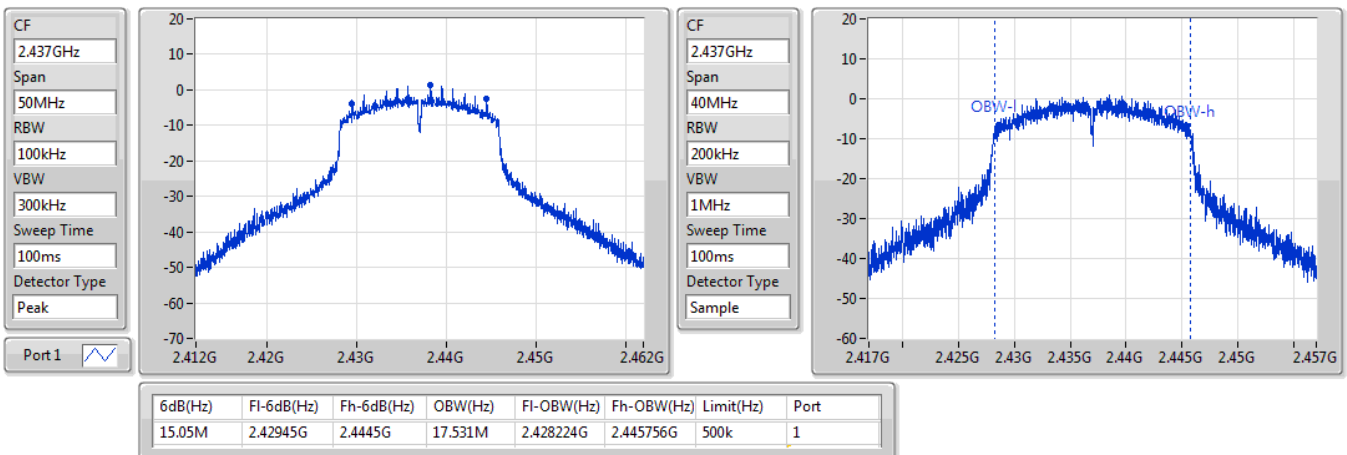


802.11n HT20_Nss1,(MCS0)_1TX
EBW
2412MHz

01/09/2020

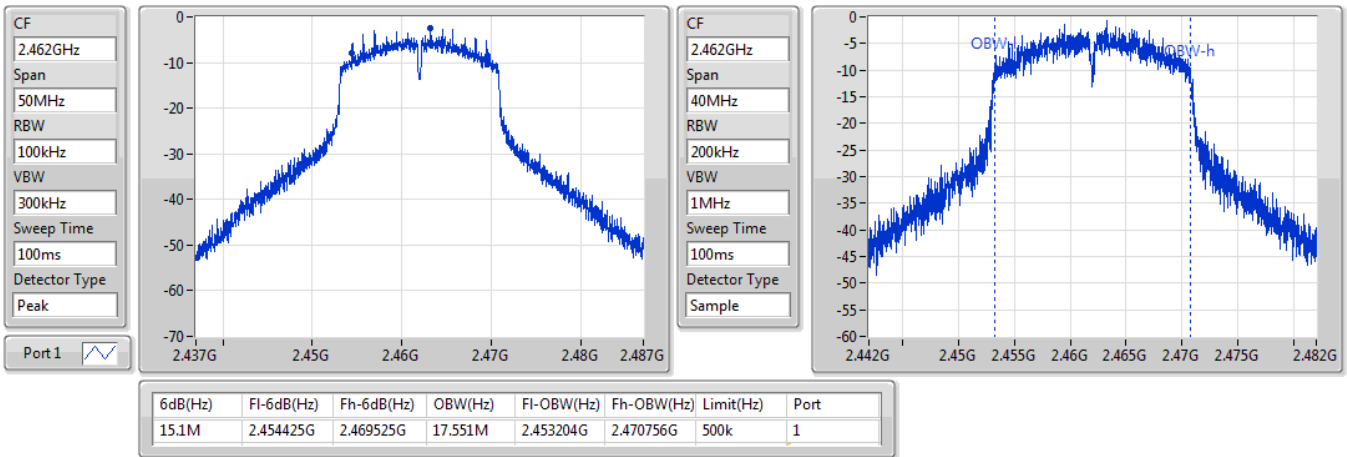

802.11n HT20_Nss1,(MCS0)_1TX
EBW
2437MHz

03/09/2020

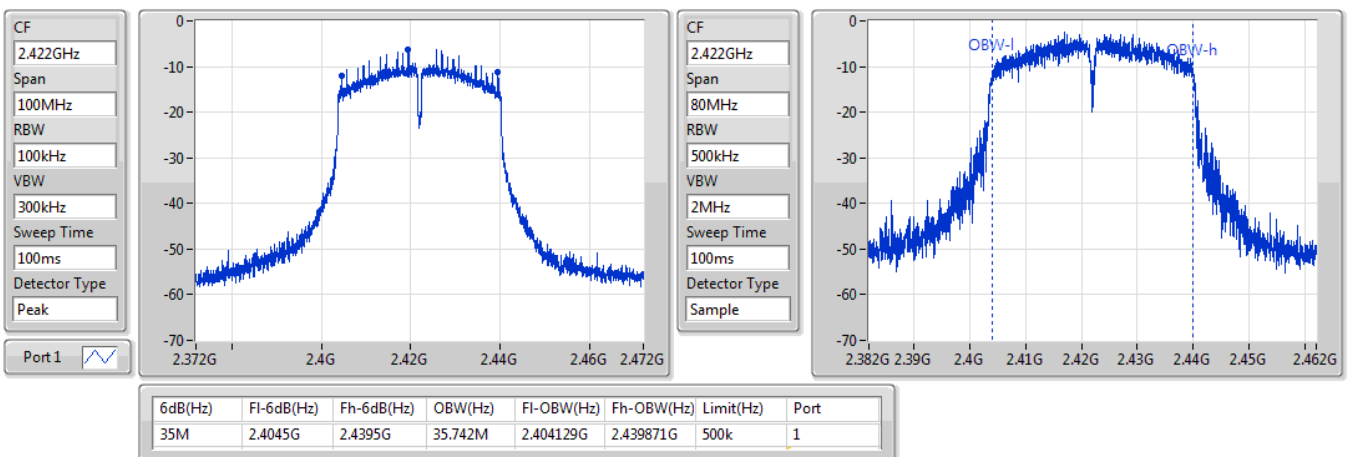


802.11n HT20_Nss1,(MCS0)_1TX
EBW
2462MHz

03/09/2020

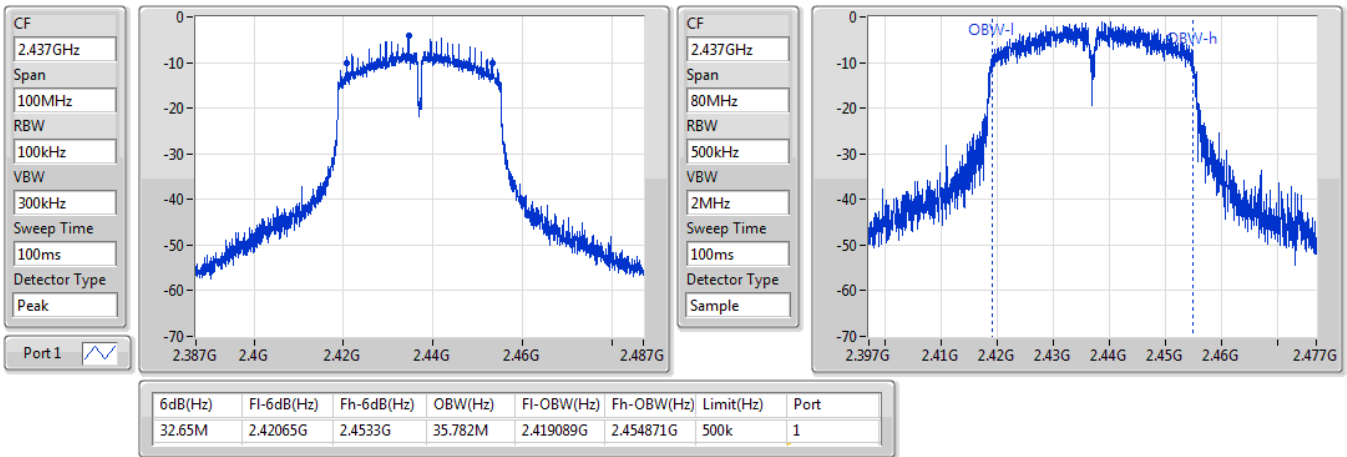

802.11n HT40_Nss1,(MCS0)_1TX
EBW
2422MHz

01/09/2020

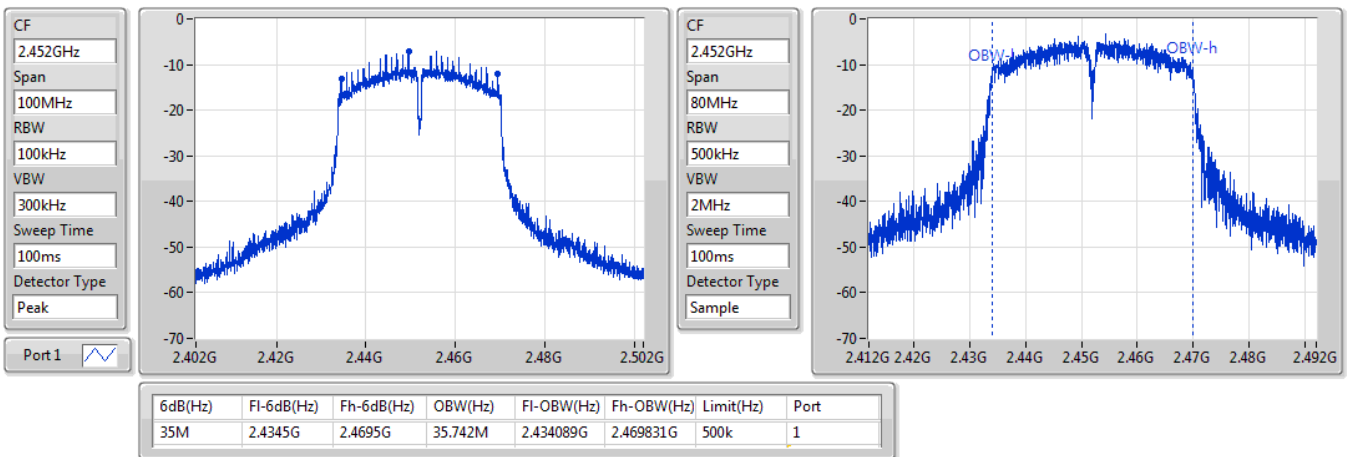


802.11n HT40_Nss1,(MCS0)_1TX
EBW
2437MHz

01/09/2020


802.11n HT40_Nss1,(MCS0)_1TX
EBW
2452MHz

01/09/2020





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	15.46	0.03516
802.11g_Nss1,(6Mbps)_1TX	19.93	0.09840
802.11n HT20_Nss1,(MCS0)_1TX	19.51	0.08933
802.11n HT40_Nss1,(MCS0)_1TX	17.81	0.06039

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.00	15.46	15.46	30.00
2437MHz	Pass	3.00	14.84	14.84	30.00
2462MHz	Pass	3.00	14.72	14.72	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.00	18.69	18.69	30.00
2417MHz	Pass	3.00	19.70	19.70	30.00
2437MHz	Pass	3.00	19.93	19.93	30.00
2457MHz	Pass	3.00	19.63	19.63	30.00
2462MHz	Pass	3.00	16.41	16.41	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.00	18.05	18.05	30.00
2417MHz	Pass	3.00	19.14	19.14	30.00
2437MHz	Pass	3.00	19.50	19.50	30.00
2457MHz	Pass	3.00	19.10	19.10	30.00
2462MHz	Pass	3.00	16.51	16.51	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	3.00	15.71	15.71	30.00
2427MHz	Pass	3.00	17.26	17.26	30.00
2437MHz	Pass	3.00	17.81	17.81	30.00
2447MHz	Pass	3.00	17.09	17.09	30.00
2452MHz	Pass	3.00	14.51	14.51	30.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	13.07	0.02028
802.11g_Nss1,(6Mbps)_1TX	12.87	0.01936
802.11n HT20_Nss1,(MCS0)_1TX	11.70	0.01479
802.11n HT40_Nss1,(MCS0)_1TX	9.10	0.00813

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.00	13.07	13.07	30.00
2437MHz	Pass	3.00	11.93	11.93	30.00
2462MHz	Pass	3.00	11.91	11.91	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.00	10.07	10.07	30.00
2417MHz	Pass	3.00	11.97	11.97	30.00
2437MHz	Pass	3.00	12.87	12.87	30.00
2457MHz	Pass	3.00	11.97	11.97	30.00
2462MHz	Pass	3.00	8.18	8.18	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.00	9.07	9.07	30.00
2417MHz	Pass	3.00	11.23	11.23	30.00
2437MHz	Pass	3.00	11.70	11.70	30.00
2457MHz	Pass	3.00	11.18	11.18	30.00
2462MHz	Pass	3.00	9.02	9.02	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	3.00	7.13	7.13	30.00
2427MHz	Pass	3.00	9.07	9.07	30.00
2437MHz	Pass	3.00	9.03	9.03	30.00
2447MHz	Pass	3.00	9.10	9.10	30.00
2452MHz	Pass	3.00	6.20	6.20	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	-11.45
802.11g_Nss1,(6Mbps)_1TX	-10.65
802.11n HT20_Nss1,(MCS0)_1TX	-13.80
802.11n HT40_Nss1,(MCS0)_1TX	-19.17

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.00	-11.45	-11.45	8.00
2417MHz					
2437MHz	Pass	3.00	-11.48	-11.48	8.00
2457MHz					
2462MHz	Pass	3.00	-12.64	-12.64	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.00	-14.17	-14.17	8.00
2417MHz					
2437MHz	Pass	3.00	-10.65	-10.65	8.00
2457MHz					
2462MHz	Pass	3.00	-16.97	-16.97	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.00	-15.73	-15.73	8.00
2417MHz					
2437MHz	Pass	3.00	-13.80	-13.80	8.00
2457MHz					
2462MHz	Pass	3.00	-16.28	-16.28	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	3.00	-21.71	-21.71	8.00
2427MHz					
2437MHz	Pass	3.00	-19.17	-19.17	8.00
2447MHz					
2452MHz	Pass	3.00	-21.33	-21.33	8.00

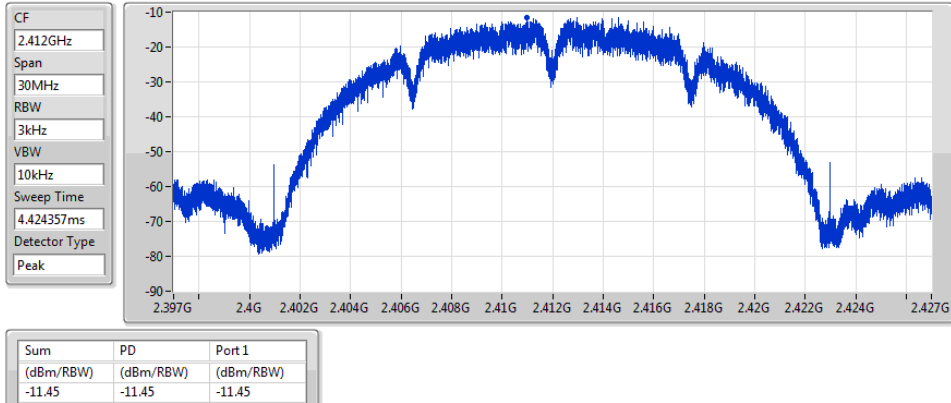
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

03/09/2020

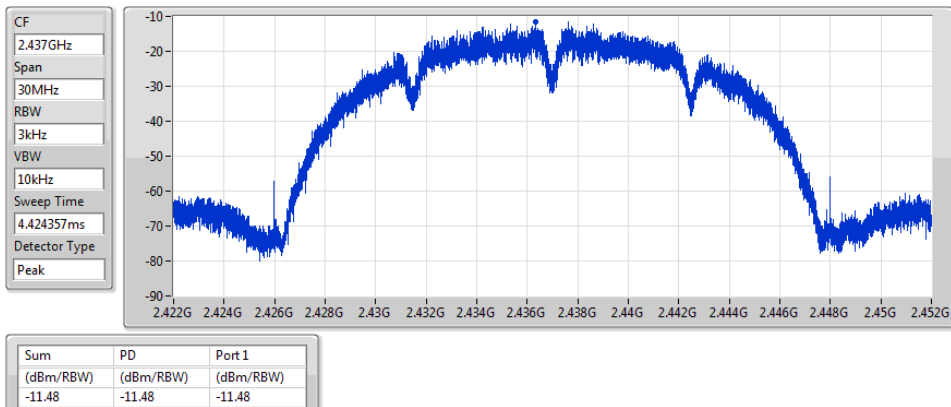


802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

03/09/2020

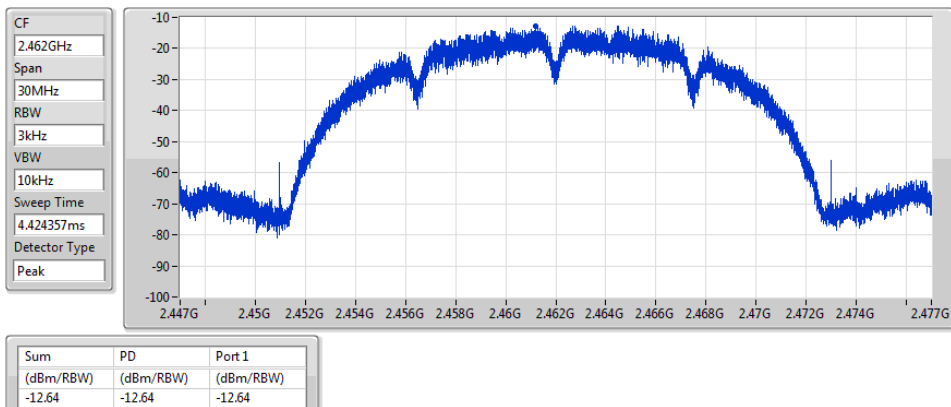


802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

03/09/2020

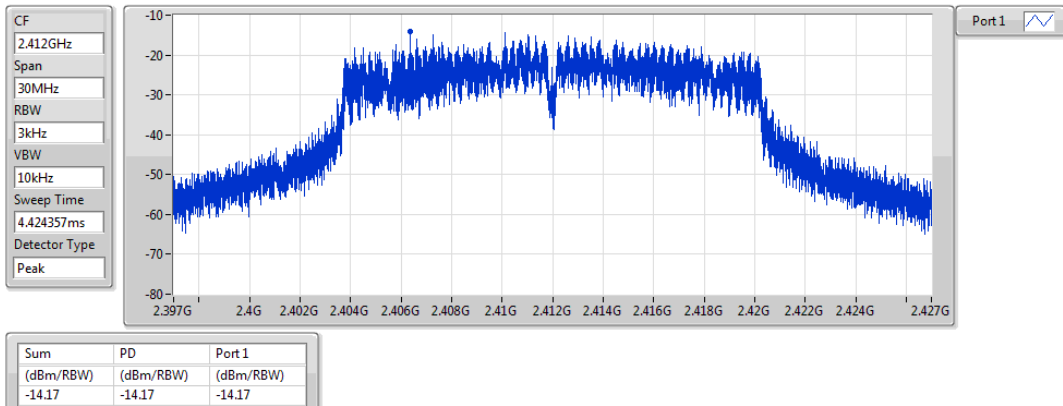


802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

01/09/2020

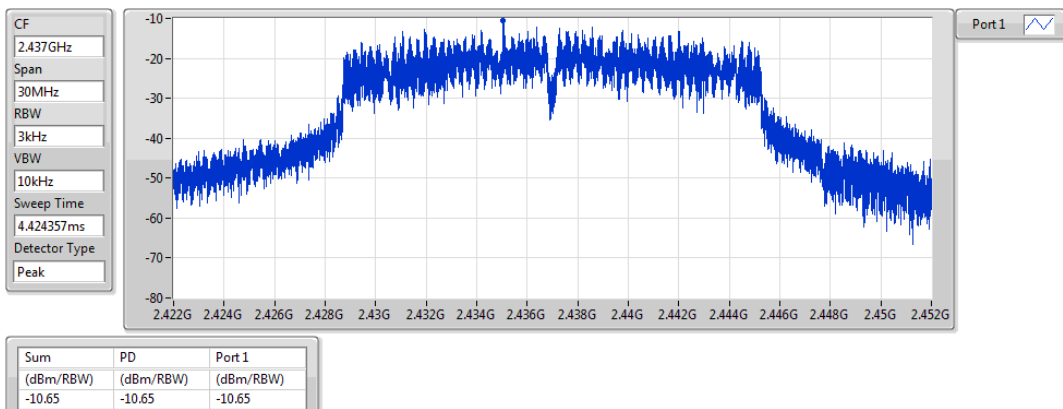


802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

03/09/2020

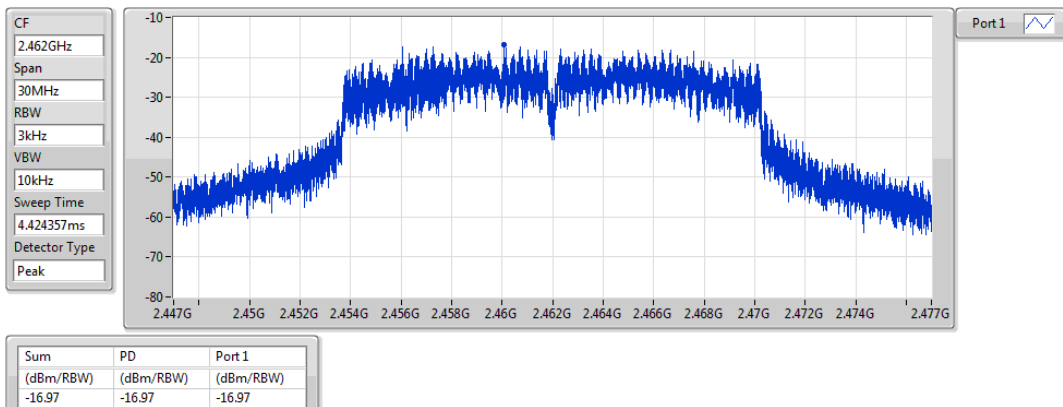


802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

01/09/2020

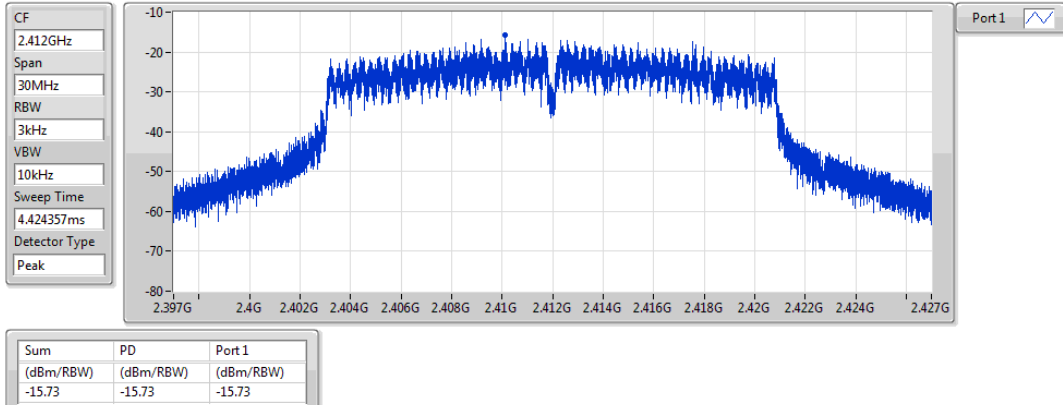


802.11n HT20_Nss1,(MCS0)_1TX

PSD

2412MHz

01/09/2020

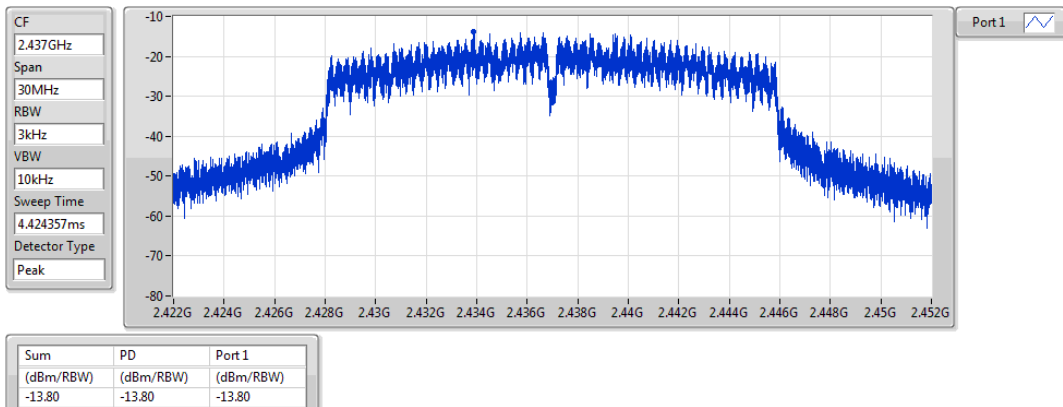


802.11n HT20_Nss1,(MCS0)_1TX

PSD

2437MHz

03/09/2020

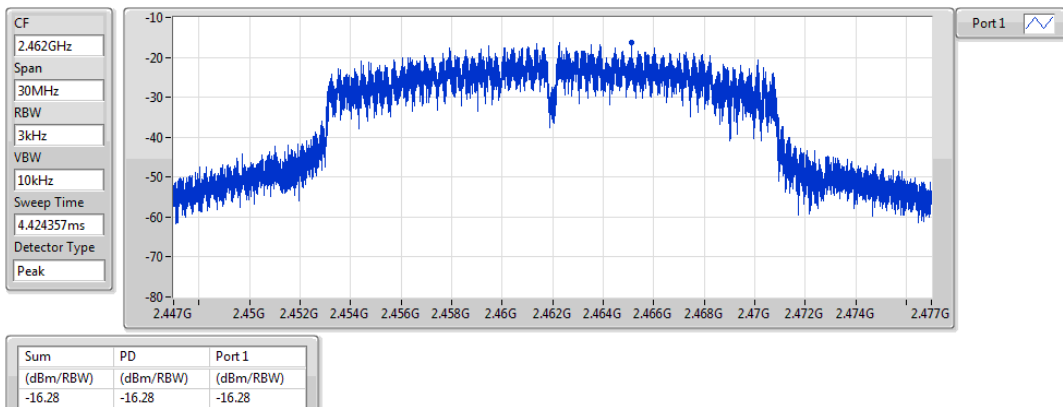


802.11n HT20_Nss1,(MCS0)_1TX

PSD

2462MHz

03/09/2020

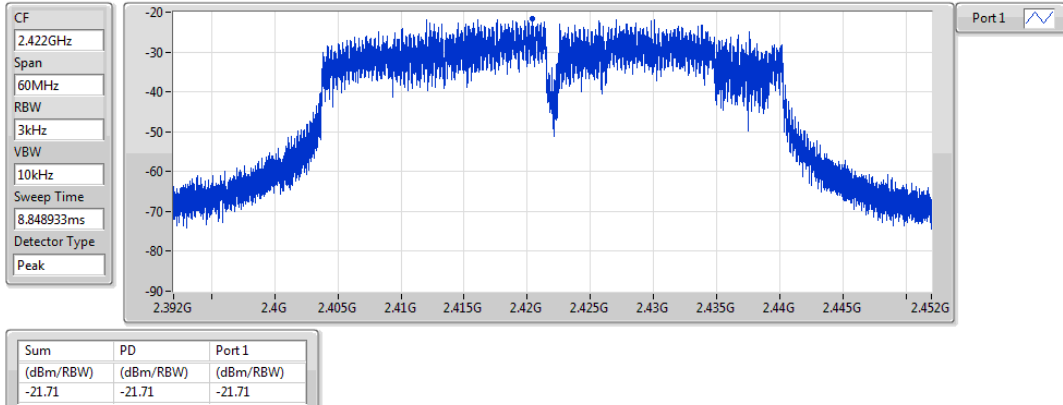


802.11n HT40_Nss1,(MCS0)_1TX

PSD

2422MHz

01/09/2020

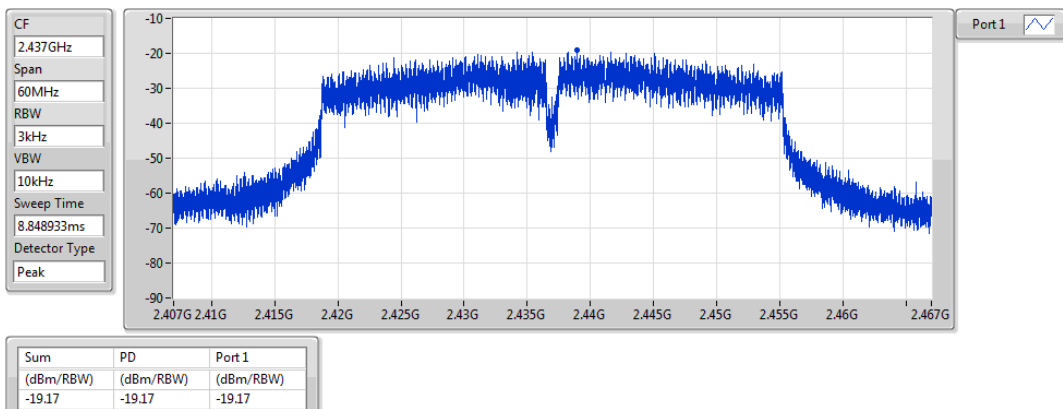


802.11n HT40_Nss1,(MCS0)_1TX

PSD

2437MHz

01/09/2020

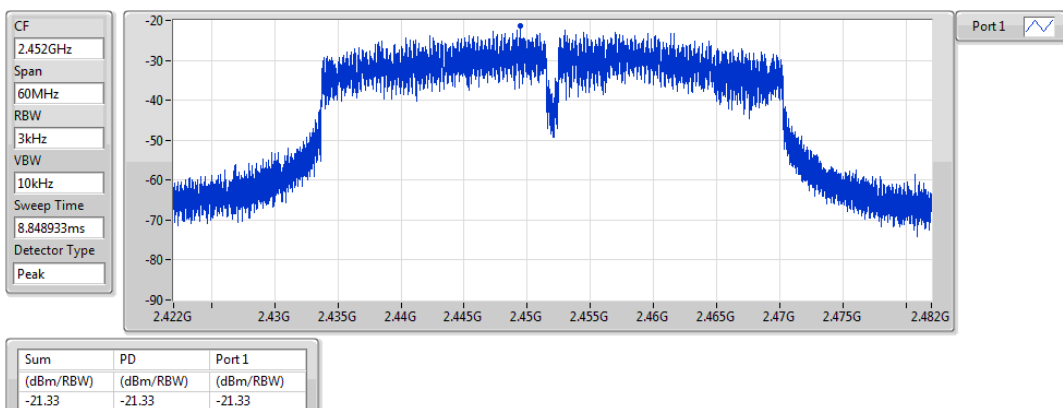


802.11n HT40_Nss1,(MCS0)_1TX

PSD

2452MHz

01/09/2020



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.41048G	2.58	-27.42	2.30233G	-54.32	2.397G	-44.00	2.4G	-52.52	2.51808G	-52.42	23.56712G	-41.65	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43824G	1.66	-28.34	1.98487G	-54.85	2.39982G	-31.01	2.4G	-33.66	2.50704G	-52.84	17.53499G	-41.87	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.43824G	0.50	-29.50	2.12321G	-54.30	2.3996G	-31.19	2.4G	-33.84	2.51992G	-52.42	24.57014G	-41.65	1
802.11n HT40_Nss1,(MCS0)_1TX	Pass	2.43449G	-4.23	-34.23	2.15913G	-53.48	2.39992G	-40.95	2.4G	-43.56	2.49302G	-52.00	24.9355G	-42.13	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41048G	2.58	-27.42	2.30233G	-54.32	2.397G	-44.00	2.4G	-52.52	2.51808G	-52.42	23.56712G	-41.65	1
2417MHz															
2437MHz	Pass	2.41048G	2.58	-27.42	1.98604G	-55.08	2.39202G	-52.71	2.4835G	-54.07	2.52152G	-52.30	24.62914G	-41.68	1
2457MHz															
2462MHz	Pass	2.41048G	2.58	-27.42	2.02361G	-54.40	2.3959G	-53.95	2.4835G	-55.07	2.51128G	-52.36	23.41822G	-42.09	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	1.66	-28.34	1.98487G	-54.85	2.39982G	-31.01	2.4G	-33.66	2.50704G	-52.84	17.53499G	-41.87	1
2417MHz															
2437MHz	Pass	2.43824G	1.66	-28.34	2.04399G	-54.22	2.3964G	-53.34	2.4835G	-56.12	2.48362G	-51.29	23.58679G	-41.75	1
2457MHz															
2462MHz	Pass	2.43824G	1.66	-28.34	2.14273G	-55.20	2.39504G	-53.65	2.4835G	-50.32	2.48442G	-47.61	24.65723G	-42.03	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	0.50	-29.50	2.12321G	-54.30	2.3996G	-31.19	2.4G	-33.84	2.51992G	-52.42	24.57014G	-41.65	1
2417MHz															
2437MHz	Pass	2.43824G	0.50	-29.50	2.15729G	-54.50	2.39866G	-53.16	2.4835G	-56.05	2.52048G	-52.97	23.58117G	-41.79	1
2457MHz															
2462MHz	Pass	2.43824G	0.50	-29.50	950.64M	-54.94	2.39678G	-54.18	2.4835G	-46.66	2.4836G	-44.72	23.39574G	-41.05	1
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43449G	-4.23	-34.23	2.15913G	-53.48	2.39992G	-40.95	2.4G	-43.56	2.49302G	-52.00	24.9355G	-42.13	1
2427MHz															
2437MHz	Pass	2.43449G	-4.23	-34.23	2.01142G	-55.19	2.39956G	-46.38	2.4G	-48.57	2.48446G	-52.86	23.23873G	-41.63	1
2447MHz															
2452MHz	Pass	2.43449G	-4.23	-34.23	928.54M	-55.26	2.39676G	-54.18	2.4835G	-50.52	2.48894G	-46.65	23.55285G	-41.70	1

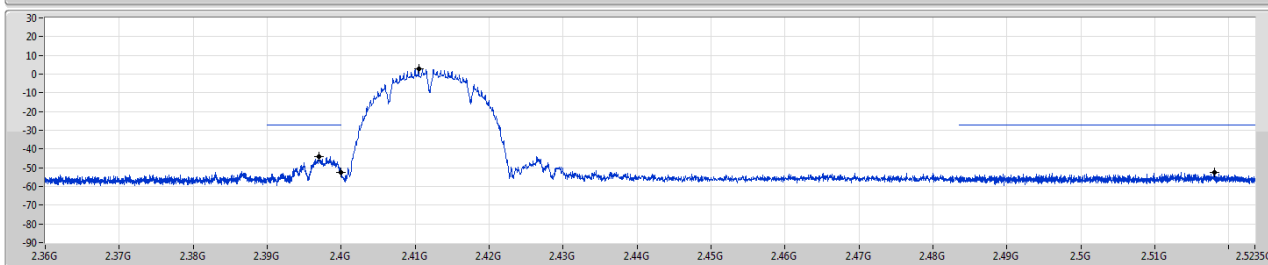
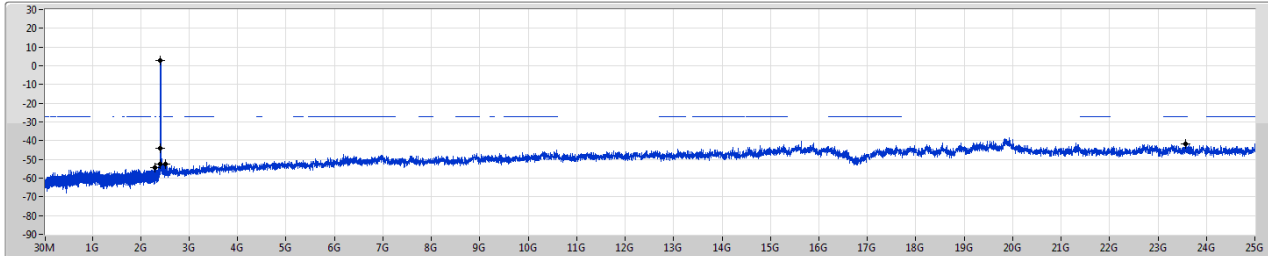
802.11b_Nss1,(1Mbps)_1TX

2412MHz

CSEndB

03/09/2020

Port1



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41048G	2.58	-27.42	2.30233G	-54.32	2.397G	-44.00	2.4G	-52.52	2.51808G	-52.42	2.56712G	-41.65	1

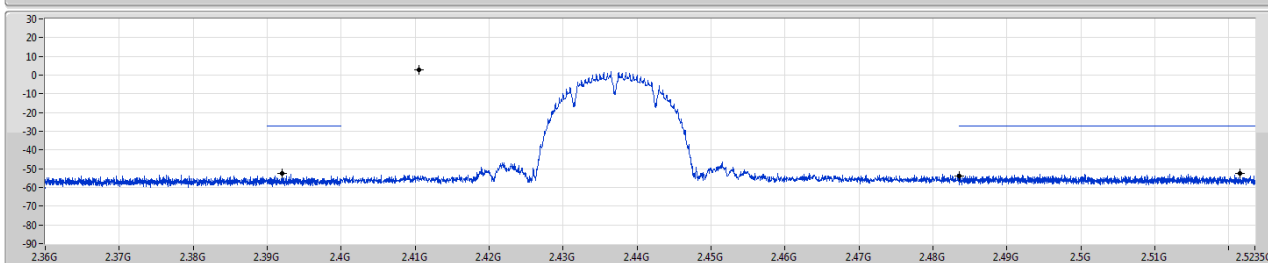
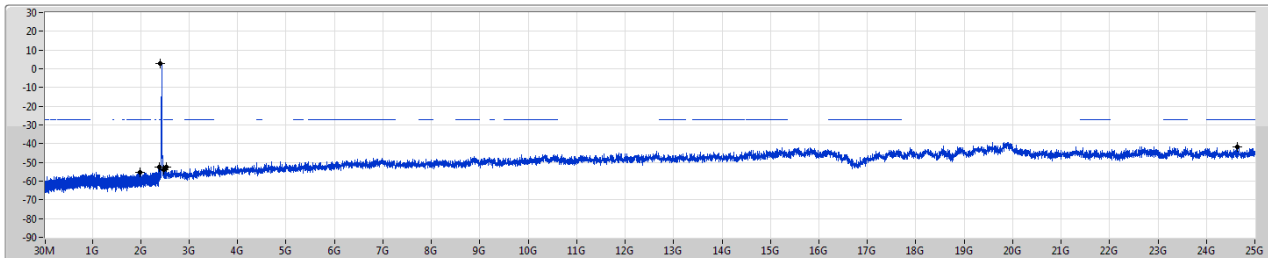
802.11b_Nss1,(1Mbps)_1TX

2437MHz

CSEndB

03/09/2020

Port1



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

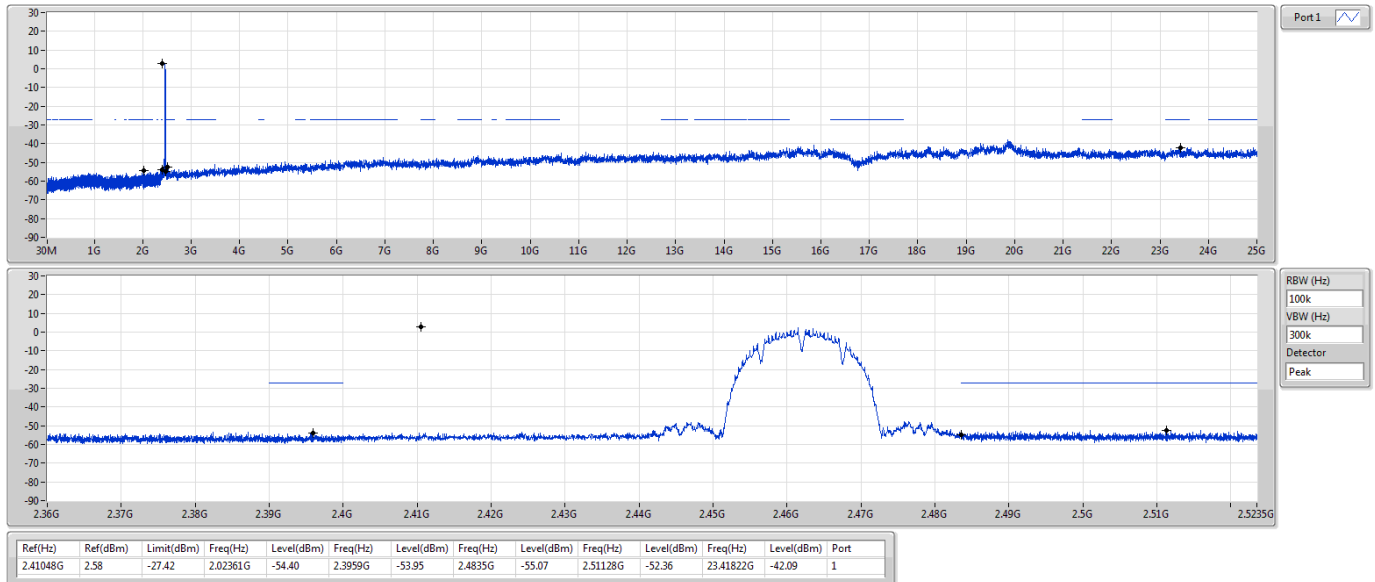
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41048G	2.58	-27.42	1.98604G	-55.08	2.39202G	-52.71	2.4835G	-54.07	2.52152G	-52.30	2.62914G	-41.68	1

802.11b_Nss1,(1Mbps)_1TX

2462MHz

CSENdB

03/09/2020

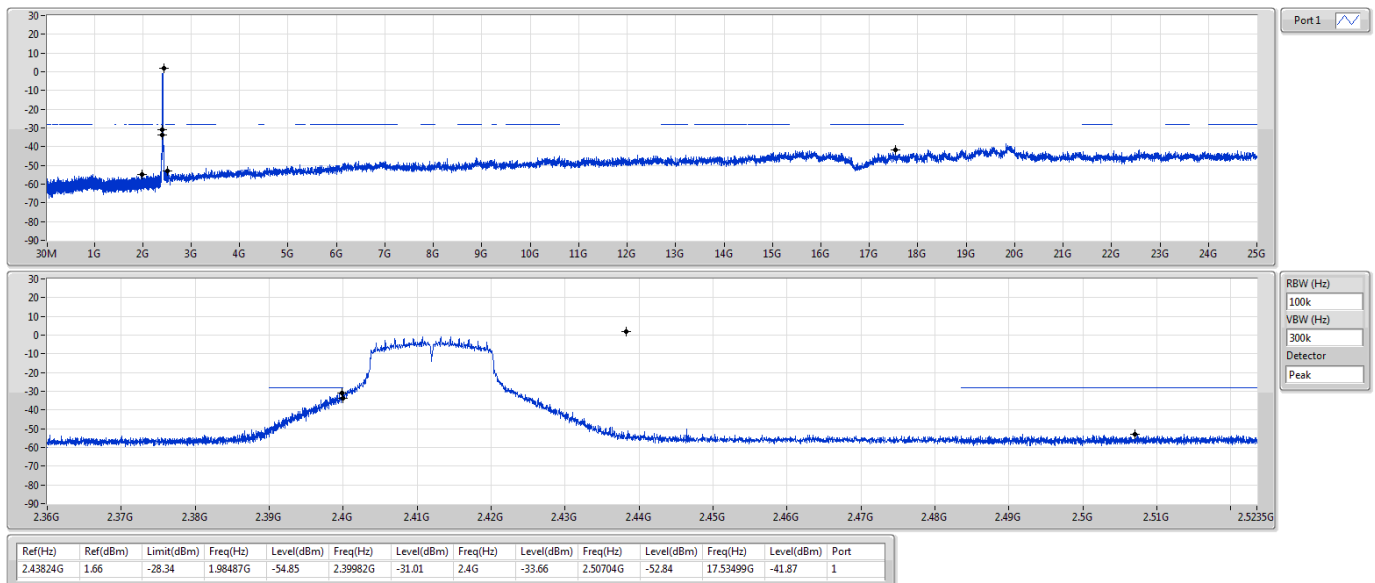


802.11g_Nss1,(6Mbps)_1TX

2412MHz

CSENdB

03/09/2020



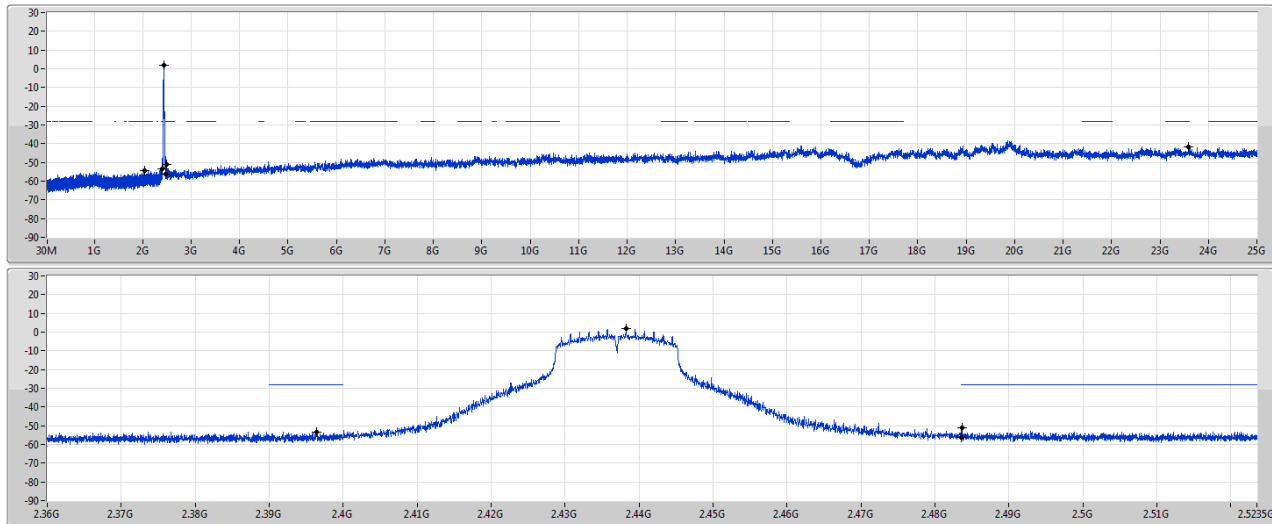
802.11g_Nss1,(6Mbps)_1TX

2437MHz

CSENdB

03/09/2020

Port 1



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43824G	1.66	-28.34	2.04399G	-54.22	2.3964G	-53.34	2.4835G	-56.12	2.48362G	-51.29	2.58679G	-41.75	1

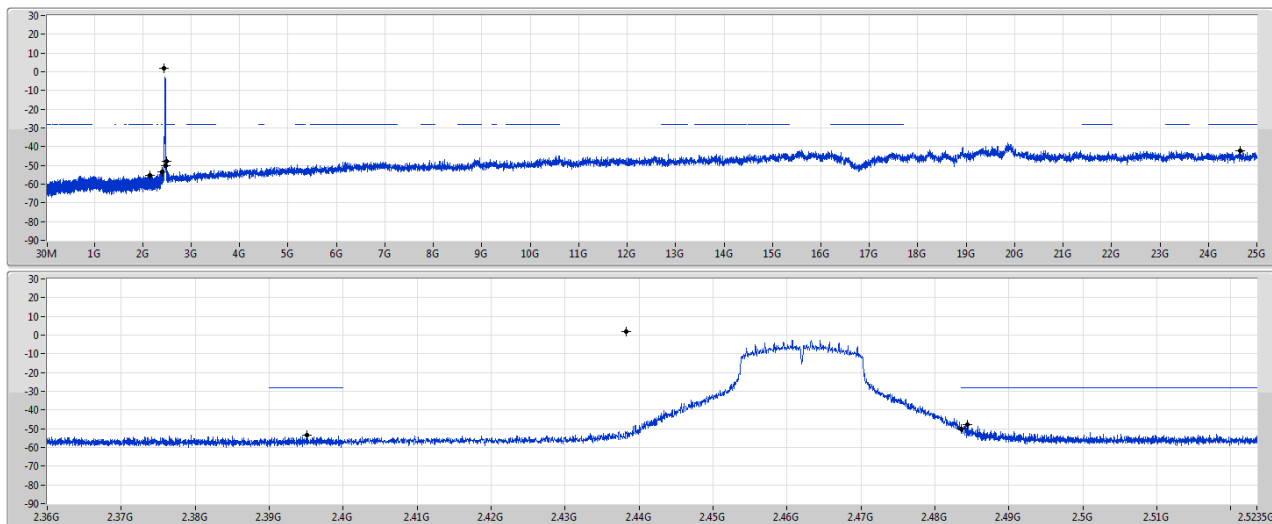
802.11g_Nss1,(6Mbps)_1TX

2462MHz

CSENdB

03/09/2020

Port 1



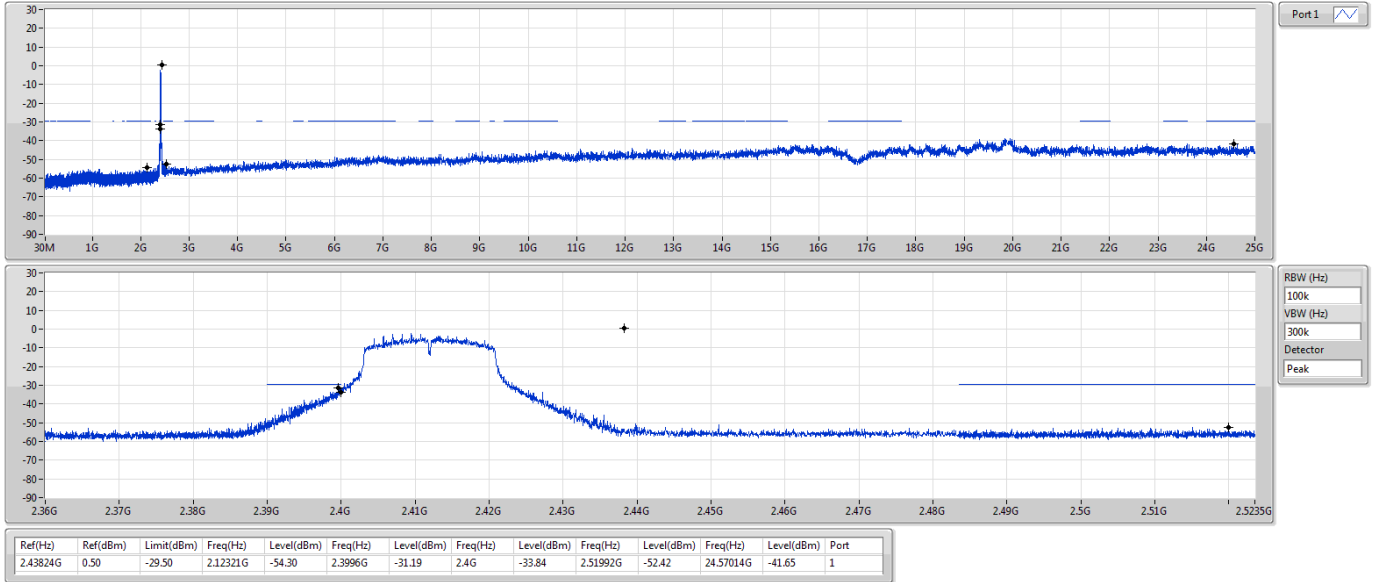
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43824G	1.66	-28.34	2.14273G	-55.20	2.39504G	-53.65	2.4835G	-50.32	2.48442G	-47.61	2.65723G	-42.03	1

802.11n HT20_Nss1,(MCS0)_1TX

CSENdB

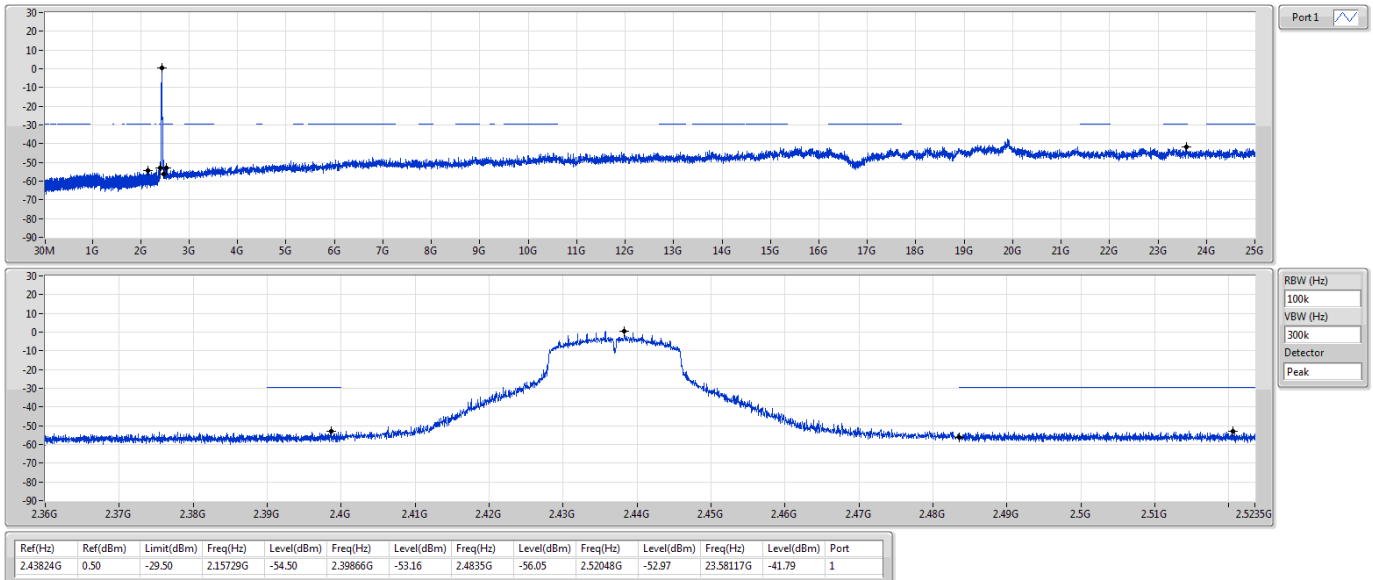
2412MHz



802.11n HT20_Nss1,(MCS0)_1TX

CSENdB

2437MHz

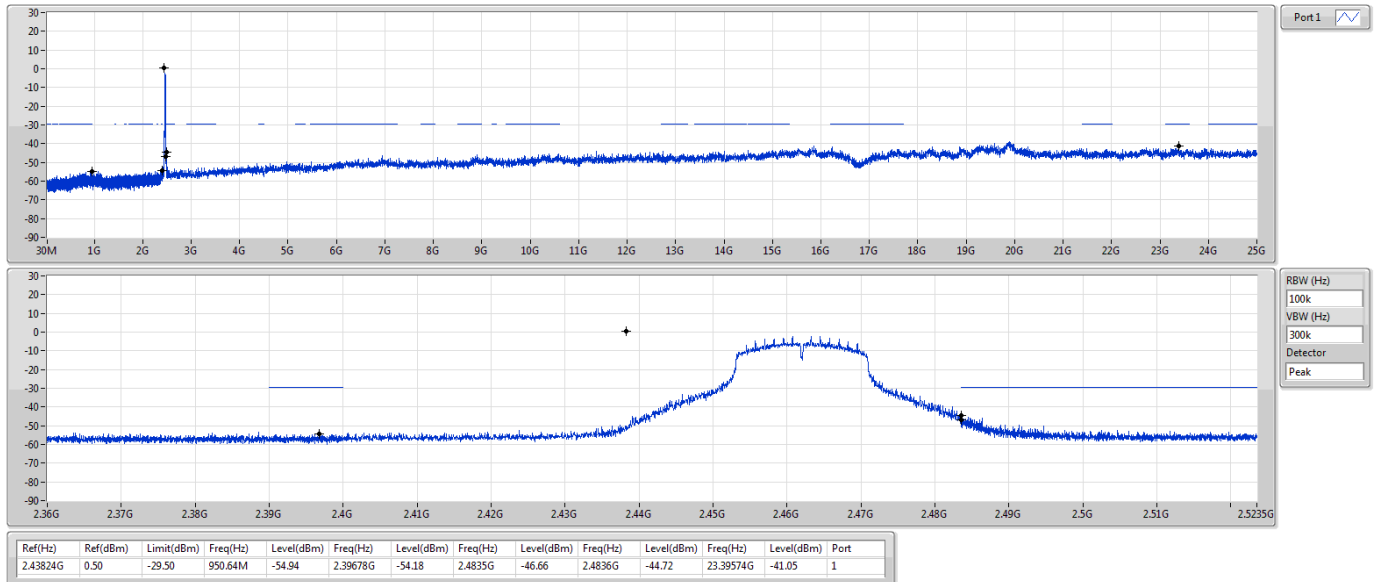


802.11n HT20_Nss1,(MCS0)_1TX

2462MHz

CSENdB

03/09/2020

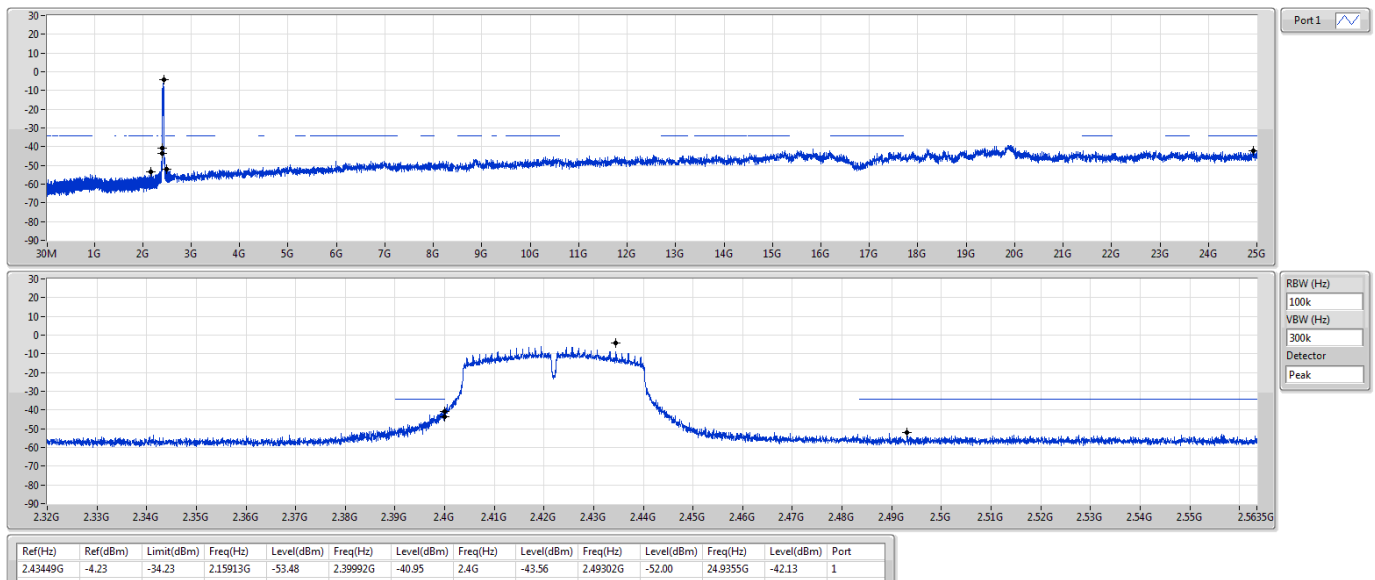


802.11n HT40_Nss1,(MCS0)_1TX

2422MHz

CSENdB

01/09/2020



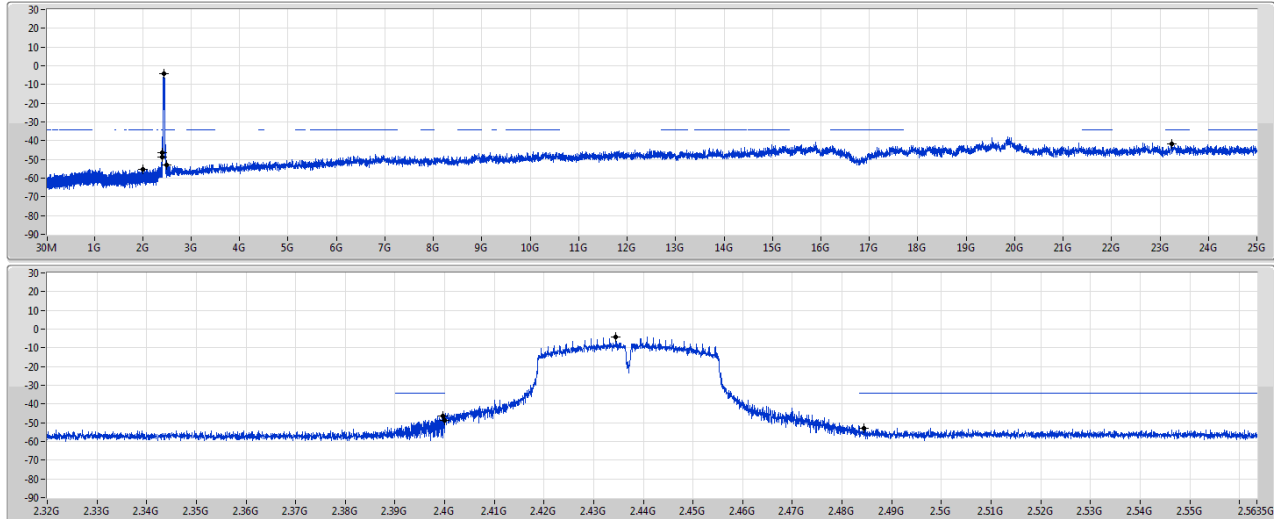
802.11n HT40_Nss1,(MCS0)_1TX

2437MHz

CSEndB

01/09/2020

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43449G	-4.23	-34.23	2.01142G	-55.19	2.39956G	-46.38	2.4G	-48.57	2.48446G	-52.86	23.23873G	-41.63	1

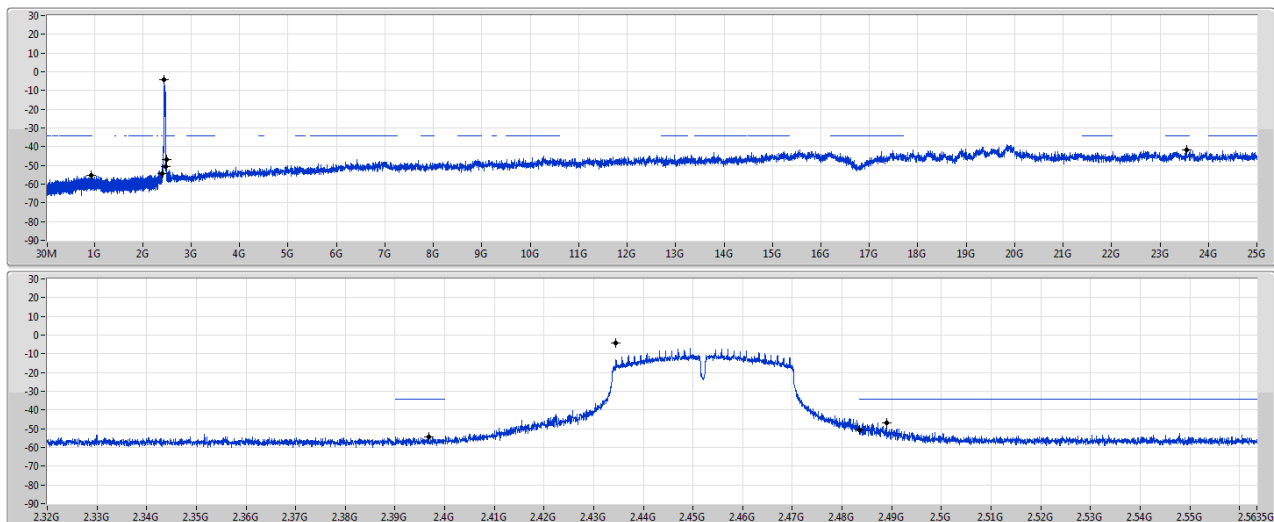
802.11n HT40_Nss1,(MCS0)_1TX

2452MHz

CSEndB

01/09/2020

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43449G	-4.23	-34.23	928.54M	-55.26	2.39676G	-54.18	2.4835G	-50.52	2.48894G	-46.65	23.55285G	-41.70	1



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	PK	291.9M	44.18	46.00	-1.82	3	Vertical	0	1.00	-

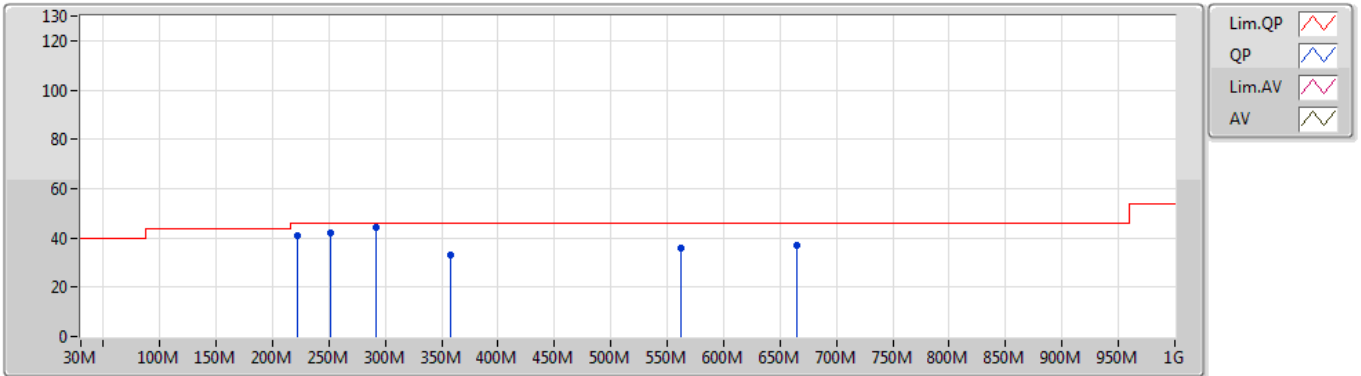
**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1.(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz_Adapter	Pass	PK	222.06M	41.07	46.00	-4.93	3	Vertical	0	1.00	-
2437MHz_Adapter	Pass	PK	251.16M	42.20	46.00	-3.80	3	Vertical	0	1.00	-
2437MHz_Adapter	Pass	PK	291.9M	44.18	46.00	-1.82	3	Vertical	0	1.00	-
2437MHz_Adapter	Pass	PK	357.86M	33.13	46.00	-12.87	3	Vertical	0	1.00	-
2437MHz_Adapter	Pass	PK	561.56M	35.93	46.00	-10.07	3	Vertical	0	1.00	-
2437MHz_Adapter	Pass	PK	664.38M	37.19	46.00	-8.81	3	Vertical	0	1.00	-
2437MHz_Adapter	Pass	PK	121.18M	27.85	43.50	-15.65	3	Horizontal	360	1.00	-
2437MHz_Adapter	Pass	PK	247.28M	33.58	46.00	-12.42	3	Horizontal	360	1.00	-
2437MHz_Adapter	Pass	PK	286.08M	42.43	46.00	-3.57	3	Horizontal	360	1.00	-
2437MHz_Adapter	Pass	PK	433.52M	34.58	46.00	-11.42	3	Horizontal	360	1.00	-
2437MHz_Adapter	Pass	PK	573.2M	31.54	46.00	-14.46	3	Horizontal	360	1.00	-
2437MHz_Adapter	Pass	PK	776.9M	35.48	46.00	-10.52	3	Horizontal	360	1.00	-

802.11n HT40_Nss1,(MCS0)_1TX

08/09/2020

2437MHz_Adapter

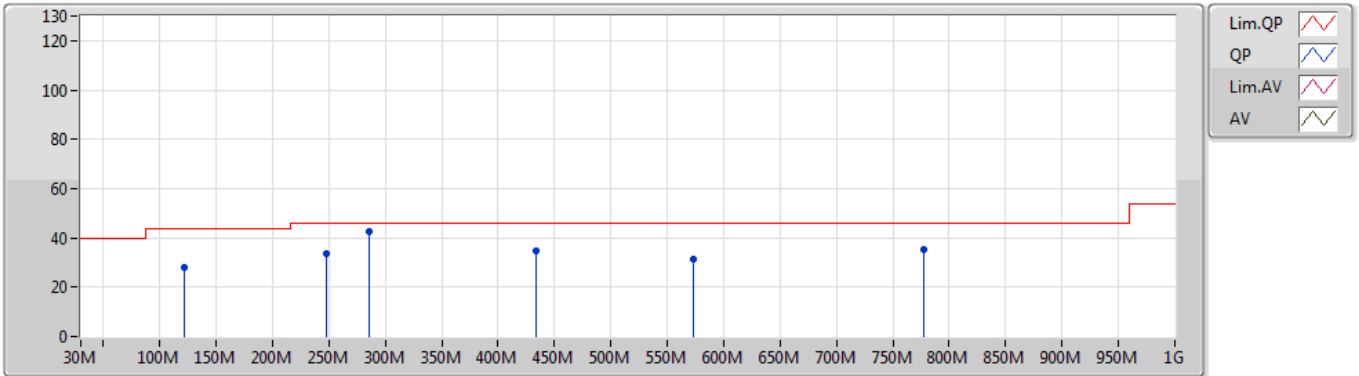


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	222.06M	41.07	46.00	-4.93	-20.65	3	Vertical	0	1.00	-	61.72	14.54	1.19	36.38
PK	251.16M	42.20	46.00	-3.80	-17.31	3	Vertical	0	1.00	-	59.51	17.82	1.30	36.43
PK	291.9M	44.18	46.00	-1.82	-16.89	3	Vertical	0	1.00	-	61.07	18.18	1.38	36.45
PK	357.86M	33.13	46.00	-12.87	-15.24	3	Vertical	0	1.00	-	48.37	19.79	1.53	36.56
PK	561.56M	35.93	46.00	-10.07	-9.66	3	Vertical	0	1.00	-	45.59	25.39	2.05	37.10
PK	664.38M	37.19	46.00	-8.81	-9.56	3	Vertical	0	1.00	-	46.75	25.49	2.26	37.31

802.11n HT40_Nss1,(MCS0)_1TX

08/09/2020

2437MHz_Adapter



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	121.18M	27.85	43.50	-15.65	-18.94	3	Horizontal	360	1.00	-	46.79	16.76	0.81	36.51
PK	247.28M	33.58	46.00	-12.42	-17.82	3	Horizontal	360	1.00	-	51.40	17.31	1.29	36.42
PK	286.08M	42.43	46.00	-3.57	-17.07	3	Horizontal	360	1.00	-	59.50	18.03	1.37	36.47
PK	433.52M	34.58	46.00	-11.42	-12.78	3	Horizontal	360	1.00	-	47.36	22.18	1.77	36.73
PK	573.2M	31.54	46.00	-14.46	-9.91	3	Horizontal	360	1.00	-	41.45	25.14	2.09	37.14
PK	776.9M	35.48	46.00	-10.52	-7.56	3	Horizontal	360	1.00	-	43.04	27.36	2.55	37.47



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	2.4874G	44.02	54.00	-9.98	3	Vertical	110	1.44	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4836G	47.00	54.00	-7.00	3	Vertical	148	1.05	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.4836G	47.66	54.00	-6.34	3	Vertical	117	2.82	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	AV	2.484G	47.61	54.00	-6.39	3	Vertical	142	1.04	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TX	Pass	AV	2.3866G	43.82	54.00	-10.18	3	Vertical	138	1.00	-
2412MHz_TX	Pass	AV	2.4112G	96.20	Inf	-Inf	3	Vertical	138	1.00	-
2412MHz_TX	Pass	PK	2.3708G	56.26	74.00	-17.74	3	Vertical	138	1.00	-
2412MHz_TX	Pass	PK	2.4128G	98.66	Inf	-Inf	3	Vertical	138	1.00	-
2412MHz_TX	Pass	AV	2.3838G	43.63	54.00	-10.37	3	Horizontal	28	2.45	-
2412MHz_TX	Pass	AV	2.4128G	91.75	Inf	-Inf	3	Horizontal	28	2.45	-
2412MHz_TX	Pass	PK	2.3808G	57.02	74.00	-16.98	3	Horizontal	28	2.45	-
2412MHz_TX	Pass	PK	2.4128G	94.18	Inf	-Inf	3	Horizontal	28	2.45	-
2412MHz_TX	Pass	AV	4.82397G	42.21	54.00	-11.79	3	Vertical	218	2.13	-
2412MHz_TX	Pass	PK	4.82396G	48.09	74.00	-25.91	3	Vertical	218	2.13	-
2412MHz_TX	Pass	AV	4.82404G	40.85	54.00	-13.15	3	Horizontal	235	2.89	-
2412MHz_TX	Pass	PK	4.82388G	47.38	74.00	-26.62	3	Horizontal	235	2.89	-
2437MHz_TX	Pass	AV	2.349G	43.45	54.00	-10.55	3	Vertical	110	1.44	-
2437MHz_TX	Pass	AV	2.4362G	95.51	Inf	-Inf	3	Vertical	110	1.44	-
2437MHz_TX	Pass	AV	2.4874G	44.02	54.00	-9.98	3	Vertical	110	1.44	-
2437MHz_TX	Pass	PK	2.3594G	56.87	74.00	-17.13	3	Vertical	110	1.44	-
2437MHz_TX	Pass	PK	2.4378G	97.75	Inf	-Inf	3	Vertical	110	1.44	-
2437MHz_TX	Pass	PK	2.499G	56.79	74.00	-17.21	3	Vertical	110	1.44	-
2437MHz_TX	Pass	AV	2.345G	43.42	54.00	-10.58	3	Horizontal	61	1.03	-
2437MHz_TX	Pass	AV	2.4362G	91.97	Inf	-Inf	3	Horizontal	61	1.03	-
2437MHz_TX	Pass	AV	2.4966G	43.82	54.00	-10.18	3	Horizontal	61	1.03	-
2437MHz_TX	Pass	PK	2.3374G	57.50	74.00	-16.50	3	Horizontal	61	1.03	-
2437MHz_TX	Pass	PK	2.4362G	94.24	Inf	-Inf	3	Horizontal	61	1.03	-
2437MHz_TX	Pass	PK	2.4974G	56.71	74.00	-17.29	3	Horizontal	61	1.03	-
2437MHz_TX	Pass	AV	4.87398G	39.76	54.00	-14.24	3	Vertical	187	1.02	-
2437MHz_TX	Pass	PK	4.87414G	47.36	74.00	-26.64	3	Vertical	187	1.02	-
2437MHz_TX	Pass	AV	4.874G	39.86	54.00	-14.14	3	Horizontal	234	3.00	-
2437MHz_TX	Pass	PK	4.87416G	47.36	74.00	-26.64	3	Horizontal	234	3.00	-
2462MHz_TX	Pass	AV	2.4628G	96.35	Inf	-Inf	3	Vertical	120	2.82	-
2462MHz_TX	Pass	AV	2.4846G	43.95	54.00	-10.05	3	Vertical	120	2.82	-
2462MHz_TX	Pass	PK	2.4628G	98.72	Inf	-Inf	3	Vertical	120	2.82	-
2462MHz_TX	Pass	PK	2.4908G	56.91	74.00	-17.09	3	Vertical	120	2.82	-
2462MHz_TX	Pass	AV	2.4632G	91.89	Inf	-Inf	3	Horizontal	60	1.00	-
2462MHz_TX	Pass	AV	2.4862G	43.86	54.00	-10.14	3	Horizontal	60	1.00	-
2462MHz_TX	Pass	PK	2.4628G	94.34	Inf	-Inf	3	Horizontal	60	1.00	-
2462MHz_TX	Pass	PK	2.4954G	57.47	74.00	-16.53	3	Horizontal	60	1.00	-
2462MHz_TX	Pass	AV	4.92396G	39.39	54.00	-14.61	3	Vertical	190	1.24	-
2462MHz_TX	Pass	PK	4.92405G	46.82	74.00	-27.18	3	Vertical	190	1.24	-
2462MHz_TX	Pass	AV	4.92396G	40.11	54.00	-13.89	3	Horizontal	236	2.95	-
2462MHz_TX	Pass	PK	4.9239G	47.61	74.00	-26.39	3	Horizontal	236	2.95	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TX	Pass	AV	2.3896G	44.64	54.00	-9.36	3	Vertical	141	1.23	-
2412MHz_TX	Pass	AV	2.4132G	88.67	Inf	-Inf	3	Vertical	141	1.23	-
2412MHz_TX	Pass	PK	2.3892G	59.27	74.00	-14.73	3	Vertical	141	1.23	-
2412MHz_TX	Pass	PK	2.4142G	98.51	Inf	-Inf	3	Vertical	141	1.23	-
2412MHz_TX	Pass	AV	2.39G	44.94	54.00	-9.06	3	Horizontal	199	1.80	-
2412MHz_TX	Pass	AV	2.4142G	88.60	Inf	-Inf	3	Horizontal	199	1.80	-
2412MHz_TX	Pass	PK	2.39G	58.30	74.00	-15.70	3	Horizontal	199	1.80	-
2412MHz_TX	Pass	PK	2.412G	98.94	Inf	-Inf	3	Horizontal	199	1.80	-
2412MHz_TX	Pass	AV	4.82375G	32.79	54.00	-21.21	3	Vertical	214	1.70	-
2412MHz_TX	Pass	PK	4.82264G	50.47	74.00	-23.53	3	Vertical	214	1.70	-
2412MHz_TX	Pass	AV	4.8239G	32.51	54.00	-21.49	3	Horizontal	225	2.73	-
2412MHz_TX	Pass	PK	4.82456G	45.27	74.00	-28.73	3	Horizontal	225	2.73	-
2417MHz_TX	Pass	AV	2.39G	45.14	54.00	-8.86	3	Vertical	147	1.00	-
2417MHz_TX	Pass	AV	2.4182G	92.64	Inf	-Inf	3	Vertical	147	1.00	-
2417MHz_TX	Pass	PK	2.3896G	61.54	74.00	-12.46	3	Vertical	147	1.00	-
2417MHz_TX	Pass	PK	2.4154G	102.40	Inf	-Inf	3	Vertical	147	1.00	-
2417MHz_TX	Pass	AV	2.389G	44.12	54.00	-9.88	3	Horizontal	26	2.45	-
2417MHz_TX	Pass	AV	2.4182G	88.35	Inf	-Inf	3	Horizontal	26	2.45	-
2417MHz_TX	Pass	PK	2.3752G	57.54	74.00	-16.46	3	Horizontal	26	2.45	-



RSE TX above 1GHz

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2417MHz_TX	Pass	PK	2.4212G	97.80	Inf	-Inf	3	Horizontal	26	2.45	-
2437MHz_TX	Pass	AV	2.3758G	44.13	54.00	-9.87	3	Vertical	108	1.24	-
2437MHz_TX	Pass	AV	2.4378G	92.59	Inf	-Inf	3	Vertical	108	1.24	-
2437MHz_TX	Pass	AV	2.4842G	44.63	54.00	-9.37	3	Vertical	108	1.24	-
2437MHz_TX	Pass	PK	2.377G	56.32	74.00	-17.68	3	Vertical	108	1.24	-
2437MHz_TX	Pass	PK	2.441G	102.00	Inf	-Inf	3	Vertical	108	1.24	-
2437MHz_TX	Pass	PK	2.4835G	56.77	74.00	-17.23	3	Vertical	108	1.24	-
2437MHz_TX	Pass	AV	2.357G	44.19	54.00	-9.81	3	Horizontal	60	1.03	-
2437MHz_TX	Pass	AV	2.4382G	89.40	Inf	-Inf	3	Horizontal	60	1.03	-
2437MHz_TX	Pass	AV	2.4882G	44.34	54.00	-9.66	3	Horizontal	60	1.03	-
2437MHz_TX	Pass	PK	2.3514G	56.91	74.00	-17.09	3	Horizontal	60	1.03	-
2437MHz_TX	Pass	PK	2.4346G	98.69	Inf	-Inf	3	Horizontal	60	1.03	-
2437MHz_TX	Pass	PK	2.4914G	57.44	74.00	-16.56	3	Horizontal	60	1.03	-
2437MHz_TX	Pass	AV	4.87406G	33.56	54.00	-20.44	3	Vertical	214	2.19	-
2437MHz_TX	Pass	PK	4.87316G	46.80	74.00	-27.20	3	Vertical	214	2.19	-
2437MHz_TX	Pass	AV	4.87408G	33.31	54.00	-20.69	3	Horizontal	234	3.00	-
2437MHz_TX	Pass	PK	4.87248G	46.52	74.00	-27.48	3	Horizontal	234	3.00	-
2457MHz_TX	Pass	AV	2.458G	93.72	Inf	-Inf	3	Vertical	148	1.05	-
2457MHz_TX	Pass	AV	2.4836G	47.00	54.00	-7.00	3	Vertical	148	1.05	-
2457MHz_TX	Pass	PK	2.4568G	104.34	Inf	-Inf	3	Vertical	148	1.05	-
2457MHz_TX	Pass	PK	2.4835G	63.04	74.00	-10.96	3	Vertical	148	1.05	-
2457MHz_TX	Pass	AV	2.4552G	87.76	Inf	-Inf	3	Horizontal	39	2.19	-
2457MHz_TX	Pass	AV	2.4835G	45.17	54.00	-8.83	3	Horizontal	39	2.19	-
2457MHz_TX	Pass	PK	2.4546G	97.49	Inf	-Inf	3	Horizontal	39	2.19	-
2457MHz_TX	Pass	PK	2.4858G	58.31	74.00	-15.69	3	Horizontal	39	2.19	-
2462MHz_TX	Pass	AV	2.4632G	88.40	Inf	-Inf	3	Vertical	146	1.06	-
2462MHz_TX	Pass	AV	2.4835G	46.43	54.00	-7.57	3	Vertical	146	1.06	-
2462MHz_TX	Pass	PK	2.4652G	98.28	Inf	-Inf	3	Vertical	146	1.06	-
2462MHz_TX	Pass	PK	2.4835G	62.83	74.00	-11.17	3	Vertical	146	1.06	-
2462MHz_TX	Pass	AV	2.4634G	87.97	Inf	-Inf	3	Horizontal	196	1.72	-
2462MHz_TX	Pass	AV	2.4835G	45.83	54.00	-8.17	3	Horizontal	196	1.72	-
2462MHz_TX	Pass	PK	2.4632G	97.51	Inf	-Inf	3	Horizontal	196	1.72	-
2462MHz_TX	Pass	PK	2.4836G	62.18	74.00	-11.82	3	Horizontal	196	1.72	-
2462MHz_TX	Pass	AV	4.92382G	34.82	54.00	-19.18	3	Vertical	198	1.01	-
2462MHz_TX	Pass	PK	4.92286G	47.99	74.00	-26.01	3	Vertical	198	1.01	-
2462MHz_TX	Pass	AV	4.92414G	33.17	54.00	-20.83	3	Horizontal	227	2.56	-
2462MHz_TX	Pass	PK	4.92498G	46.82	74.00	-27.18	3	Horizontal	227	2.56	-
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TX	Pass	AV	2.39G	44.51	54.00	-9.49	3	Vertical	143	1.24	-
2412MHz_TX	Pass	AV	2.4134G	87.66	Inf	-Inf	3	Vertical	143	1.24	-
2412MHz_TX	Pass	PK	2.382G	56.93	74.00	-17.07	3	Vertical	143	1.24	-
2412MHz_TX	Pass	PK	2.4152G	97.53	Inf	-Inf	3	Vertical	143	1.24	-
2412MHz_TX	Pass	AV	2.39G	44.82	54.00	-9.18	3	Horizontal	197	1.79	-
2412MHz_TX	Pass	AV	2.4138G	87.10	Inf	-Inf	3	Horizontal	197	1.79	-
2412MHz_TX	Pass	PK	2.3884G	59.58	74.00	-14.42	3	Horizontal	197	1.79	-
2412MHz_TX	Pass	PK	2.4102G	96.62	Inf	-Inf	3	Horizontal	197	1.79	-
2412MHz_TX	Pass	AV	4.82387G	32.58	54.00	-21.42	3	Vertical	229	1.44	-
2412MHz_TX	Pass	PK	4.82186G	45.68	74.00	-28.32	3	Vertical	229	1.44	-
2412MHz_TX	Pass	AV	4.82386G	32.40	54.00	-21.60	3	Horizontal	226	2.50	-
2412MHz_TX	Pass	PK	4.82517G	45.43	74.00	-28.57	3	Horizontal	226	2.50	-
2417MHz_TX	Pass	AV	2.3896G	44.37	54.00	-9.63	3	Vertical	147	1.06	-
2417MHz_TX	Pass	AV	2.4186G	91.73	Inf	-Inf	3	Vertical	147	1.06	-
2417MHz_TX	Pass	PK	2.3894G	58.73	74.00	-15.27	3	Vertical	147	1.06	-
2417MHz_TX	Pass	PK	2.4198G	101.36	Inf	-Inf	3	Vertical	147	1.06	-
2417MHz_TX	Pass	AV	2.373G	44.07	54.00	-9.93	3	Horizontal	25	2.47	-
2417MHz_TX	Pass	AV	2.4158G	87.18	Inf	-Inf	3	Horizontal	25	2.47	-
2417MHz_TX	Pass	PK	2.3852G	56.20	74.00	-17.80	3	Horizontal	25	2.47	-
2417MHz_TX	Pass	PK	2.4158G	97.24	Inf	-Inf	3	Horizontal	25	2.47	-
2437MHz_TX	Pass	AV	2.3642G	43.92	54.00	-10.08	3	Vertical	110	1.44	-
2437MHz_TX	Pass	AV	2.4378G	91.60	Inf	-Inf	3	Vertical	110	1.44	-
2437MHz_TX	Pass	AV	2.4838G	44.43	54.00	-9.57	3	Vertical	110	1.44	-
2437MHz_TX	Pass	PK	2.361G	56.58	74.00	-17.42	3	Vertical	110	1.44	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz_TX	Pass	PK	2.437G	100.98	Inf	-Inf	3	Vertical	110	1.44	-
2437MHz_TX	Pass	PK	2.4878G	56.82	74.00	-17.18	3	Vertical	110	1.44	-
2437MHz_TX	Pass	AV	2.3538G	44.05	54.00	-9.95	3	Horizontal	59	1.00	-
2437MHz_TX	Pass	AV	2.4362G	88.20	Inf	-Inf	3	Horizontal	59	1.00	-
2437MHz_TX	Pass	AV	2.499G	44.42	54.00	-9.58	3	Horizontal	59	1.00	-
2437MHz_TX	Pass	PK	2.3486G	56.99	74.00	-17.01	3	Horizontal	59	1.00	-
2437MHz_TX	Pass	PK	2.4354G	97.59	Inf	-Inf	3	Horizontal	59	1.00	-
2437MHz_TX	Pass	PK	2.4986G	57.02	74.00	-16.98	3	Horizontal	59	1.00	-
2437MHz_TX	Pass	AV	4.87372G	33.05	54.00	-20.95	3	Vertical	215	2.20	-
2437MHz_TX	Pass	PK	4.87404G	46.44	74.00	-27.56	3	Vertical	215	2.20	-
2437MHz_TX	Pass	AV	4.87412G	33.00	54.00	-21.00	3	Horizontal	234	2.91	-
2437MHz_TX	Pass	PK	4.87764G	45.92	74.00	-28.08	3	Horizontal	234	2.91	-
2457MHz_TX	Pass	AV	2.4562G	92.82	Inf	-Inf	3	Vertical	147	1.04	-
2457MHz_TX	Pass	AV	2.4835G	45.73	54.00	-8.27	3	Vertical	147	1.04	-
2457MHz_TX	Pass	PK	2.4596G	102.32	Inf	-Inf	3	Vertical	147	1.04	-
2457MHz_TX	Pass	PK	2.4848G	61.48	74.00	-12.52	3	Vertical	147	1.04	-
2457MHz_TX	Pass	AV	2.4582G	88.51	Inf	-Inf	3	Horizontal	31	2.65	-
2457MHz_TX	Pass	AV	2.4835G	44.87	54.00	-9.13	3	Horizontal	31	2.65	-
2457MHz_TX	Pass	PK	2.4594G	97.95	Inf	-Inf	3	Horizontal	31	2.65	-
2457MHz_TX	Pass	PK	2.495G	57.36	74.00	-16.64	3	Horizontal	31	2.65	-
2462MHz_TX	Pass	AV	2.4632G	90.38	Inf	-Inf	3	Vertical	117	2.82	-
2462MHz_TX	Pass	AV	2.4836G	47.66	54.00	-6.34	3	Vertical	117	2.82	-
2462MHz_TX	Pass	PK	2.4608G	99.97	Inf	-Inf	3	Vertical	117	2.82	-
2462MHz_TX	Pass	PK	2.4842G	65.76	74.00	-8.24	3	Vertical	117	2.82	-
2462MHz_TX	Pass	AV	2.4638G	85.70	Inf	-Inf	3	Horizontal	60	1.00	-
2462MHz_TX	Pass	AV	2.4835G	45.44	54.00	-8.56	3	Horizontal	60	1.00	-
2462MHz_TX	Pass	PK	2.4602G	95.11	Inf	-Inf	3	Horizontal	60	1.00	-
2462MHz_TX	Pass	PK	2.4835G	59.23	74.00	-14.77	3	Horizontal	60	1.00	-
2462MHz_TX	Pass	AV	4.92408G	32.84	54.00	-21.16	3	Vertical	185	1.24	-
2462MHz_TX	Pass	PK	4.9256G	45.52	74.00	-28.48	3	Vertical	185	1.24	-
2462MHz_TX	Pass	AV	4.9238G	33.38	54.00	-20.62	3	Horizontal	235	3.00	-
2462MHz_TX	Pass	PK	4.92136G	46.04	74.00	-27.96	3	Horizontal	235	3.00	-
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TX	Pass	AV	2.3896G	45.14	54.00	-8.86	3	Vertical	141	1.10	-
2422MHz_TX	Pass	AV	2.4232G	84.48	Inf	-Inf	3	Vertical	141	1.10	-
2422MHz_TX	Pass	AV	2.4932G	45.42	54.00	-8.58	3	Vertical	141	1.10	-
2422MHz_TX	Pass	PK	2.3716G	57.07	74.00	-16.93	3	Vertical	141	1.10	-
2422MHz_TX	Pass	PK	2.4248G	93.73	Inf	-Inf	3	Vertical	141	1.10	-
2422MHz_TX	Pass	PK	2.484G	57.02	74.00	-16.98	3	Vertical	141	1.10	-
2422MHz_TX	Pass	AV	2.3884G	45.19	54.00	-8.81	3	Horizontal	197	1.94	-
2422MHz_TX	Pass	AV	2.4236G	83.93	Inf	-Inf	3	Horizontal	197	1.94	-
2422MHz_TX	Pass	AV	2.5G	45.27	54.00	-8.73	3	Horizontal	197	1.94	-
2422MHz_TX	Pass	PK	2.356G	57.27	74.00	-16.73	3	Horizontal	197	1.94	-
2422MHz_TX	Pass	PK	2.4244G	92.69	Inf	-Inf	3	Horizontal	197	1.94	-
2422MHz_TX	Pass	PK	2.4896G	57.12	74.00	-16.88	3	Horizontal	197	1.94	-
2422MHz_TX	Pass	AV	4.84183G	31.99	54.00	-22.01	3	Vertical	95	1.73	-
2422MHz_TX	Pass	PK	4.84263G	44.05	74.00	-29.95	3	Vertical	95	1.73	-
2422MHz_TX	Pass	AV	4.8439G	32.04	54.00	-21.96	3	Horizontal	256	1.81	-
2422MHz_TX	Pass	PK	4.84408G	44.31	74.00	-29.69	3	Horizontal	256	1.81	-
2427MHz_TX	Pass	AV	2.3898G	47.05	54.00	-6.95	3	Vertical	155	1.49	-
2427MHz_TX	Pass	AV	2.4254G	88.53	Inf	-Inf	3	Vertical	155	1.49	-
2427MHz_TX	Pass	AV	2.4886G	45.55	54.00	-8.45	3	Vertical	155	1.49	-
2427MHz_TX	Pass	PK	2.3874G	60.93	74.00	-13.07	3	Vertical	155	1.49	-
2427MHz_TX	Pass	PK	2.4342G	97.89	Inf	-Inf	3	Vertical	155	1.49	-
2427MHz_TX	Pass	PK	2.499G	56.96	74.00	-17.04	3	Vertical	155	1.49	-
2427MHz_TX	Pass	AV	2.3898G	46.02	54.00	-7.98	3	Horizontal	43	2.60	-
2427MHz_TX	Pass	AV	2.425G	84.75	Inf	-Inf	3	Horizontal	43	2.60	-
2427MHz_TX	Pass	AV	2.4966G	45.62	54.00	-8.38	3	Horizontal	43	2.60	-
2427MHz_TX	Pass	PK	2.3894G	58.90	74.00	-15.10	3	Horizontal	43	2.60	-
2427MHz_TX	Pass	PK	2.4338G	93.91	Inf	-Inf	3	Horizontal	43	2.60	-
2427MHz_TX	Pass	PK	2.4946G	57.07	74.00	-16.93	3	Horizontal	43	2.60	-
2437MHz_TX	Pass	AV	2.341G	44.90	54.00	-9.10	3	Vertical	141	1.16	-



RSE TX above 1GHz

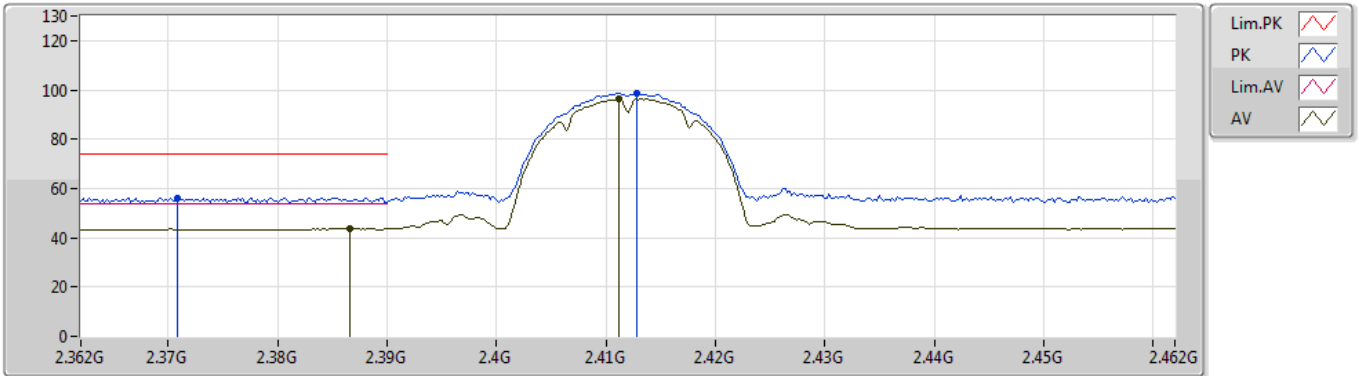
Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz_TX	Pass	AV	2.4406G	86.73	Inf	-Inf	3	Vertical	141	1.16	-
2437MHz_TX	Pass	AV	2.4835G	45.61	54.00	-8.39	3	Vertical	141	1.16	-
2437MHz_TX	Pass	PK	2.3758G	56.81	74.00	-17.19	3	Vertical	141	1.16	-
2437MHz_TX	Pass	PK	2.4394G	95.45	Inf	-Inf	3	Vertical	141	1.16	-
2437MHz_TX	Pass	PK	2.487G	56.34	74.00	-17.66	3	Vertical	141	1.16	-
2437MHz_TX	Pass	AV	2.3418G	44.94	54.00	-9.06	3	Horizontal	193	1.91	-
2437MHz_TX	Pass	AV	2.435G	86.30	Inf	-Inf	3	Horizontal	193	1.91	-
2437MHz_TX	Pass	AV	2.4835G	45.44	54.00	-8.56	3	Horizontal	193	1.91	-
2437MHz_TX	Pass	PK	2.3642G	57.31	74.00	-16.69	3	Horizontal	193	1.91	-
2437MHz_TX	Pass	PK	2.4314G	95.05	Inf	-Inf	3	Horizontal	193	1.91	-
2437MHz_TX	Pass	PK	2.4926G	56.82	74.00	-17.18	3	Horizontal	193	1.91	-
2437MHz_TX	Pass	AV	4.87387G	32.71	54.00	-21.29	3	Vertical	45	2.42	-
2437MHz_TX	Pass	PK	4.87354G	44.83	74.00	-29.17	3	Vertical	45	2.42	-
2437MHz_TX	Pass	AV	4.87403G	32.84	54.00	-21.16	3	Horizontal	145	2.29	-
2437MHz_TX	Pass	PK	4.87373G	44.47	74.00	-29.53	3	Horizontal	145	2.29	-
2447MHz_TX	Pass	AV	2.3526G	45.09	54.00	-8.91	3	Vertical	154	1.11	-
2447MHz_TX	Pass	AV	2.4482G	88.41	Inf	-Inf	3	Vertical	154	1.11	-
2447MHz_TX	Pass	AV	2.4835G	46.78	54.00	-7.22	3	Vertical	154	1.11	-
2447MHz_TX	Pass	PK	2.361G	56.88	74.00	-17.12	3	Vertical	154	1.11	-
2447MHz_TX	Pass	PK	2.4434G	97.49	Inf	-Inf	3	Vertical	154	1.11	-
2447MHz_TX	Pass	PK	2.4854G	60.48	74.00	-13.52	3	Vertical	154	1.11	-
2447MHz_TX	Pass	AV	2.3786G	45.14	54.00	-8.86	3	Horizontal	44	2.63	-
2447MHz_TX	Pass	AV	2.4438G	84.18	Inf	-Inf	3	Horizontal	44	2.63	-
2447MHz_TX	Pass	AV	2.4846G	45.70	54.00	-8.30	3	Horizontal	44	2.63	-
2447MHz_TX	Pass	PK	2.3502G	56.71	74.00	-17.29	3	Horizontal	44	2.63	-
2447MHz_TX	Pass	PK	2.4406G	93.64	Inf	-Inf	3	Horizontal	44	2.63	-
2447MHz_TX	Pass	PK	2.4838G	57.73	74.00	-16.27	3	Horizontal	44	2.63	-
2452MHz_TX	Pass	AV	2.358G	45.02	54.00	-8.98	3	Vertical	142	1.04	-
2452MHz_TX	Pass	AV	2.45G	84.67	Inf	-Inf	3	Vertical	142	1.04	-
2452MHz_TX	Pass	AV	2.484G	47.61	54.00	-6.39	3	Vertical	142	1.04	-
2452MHz_TX	Pass	PK	2.3772G	56.60	74.00	-17.40	3	Vertical	142	1.04	-
2452MHz_TX	Pass	PK	2.4576G	93.61	Inf	-Inf	3	Vertical	142	1.04	-
2452MHz_TX	Pass	PK	2.4868G	62.17	74.00	-11.83	3	Vertical	142	1.04	-
2452MHz_TX	Pass	AV	2.362G	45.07	54.00	-8.93	3	Horizontal	196	1.70	-
2452MHz_TX	Pass	AV	2.456G	83.65	Inf	-Inf	3	Horizontal	196	1.70	-
2452MHz_TX	Pass	AV	2.484G	46.66	54.00	-7.34	3	Horizontal	196	1.70	-
2452MHz_TX	Pass	PK	2.3676G	56.40	74.00	-17.60	3	Horizontal	196	1.70	-
2452MHz_TX	Pass	PK	2.458G	92.60	Inf	-Inf	3	Horizontal	196	1.70	-
2452MHz_TX	Pass	PK	2.484G	60.79	74.00	-13.21	3	Horizontal	196	1.70	-
2452MHz_TX	Pass	AV	4.90312G	31.50	54.00	-22.50	3	Vertical	170	2.47	-
2452MHz_TX	Pass	PK	4.90525G	43.50	74.00	-30.50	3	Vertical	170	2.47	-
2452MHz_TX	Pass	AV	4.90572G	31.90	54.00	-22.10	3	Horizontal	213	1.46	-
2452MHz_TX	Pass	PK	4.9016G	43.90	74.00	-30.10	3	Horizontal	213	1.46	-

802.11b_Nss1,(1Mbps)_1TX

03/09/2020

2412MHz_TX

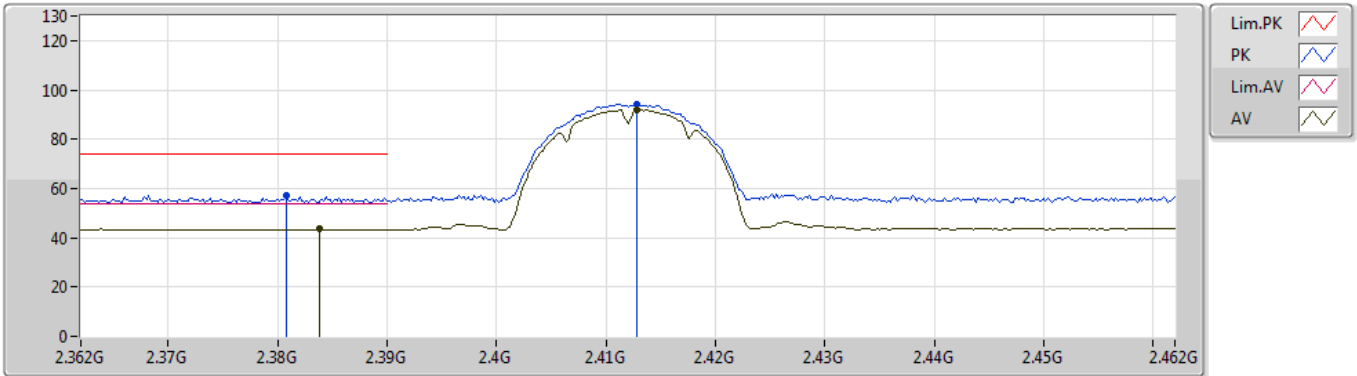


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3866G	43.82	54.00	-10.18	31.53	3	Vertical	138	1.00	-	12.29	27.65	3.88	-
AV	2.4112G	96.20	Inf	-Inf	31.52	3	Vertical	138	1.00	-	64.68	27.60	3.92	-
PK	2.3708G	56.26	74.00	-17.74	31.58	3	Vertical	138	1.00	-	24.68	27.72	3.86	-
PK	2.4128G	98.66	Inf	-Inf	31.52	3	Vertical	138	1.00	-	67.14	27.60	3.92	-

802.11b_Nss1,(1Mbps)_1TX

03/09/2020

2412MHz_TX

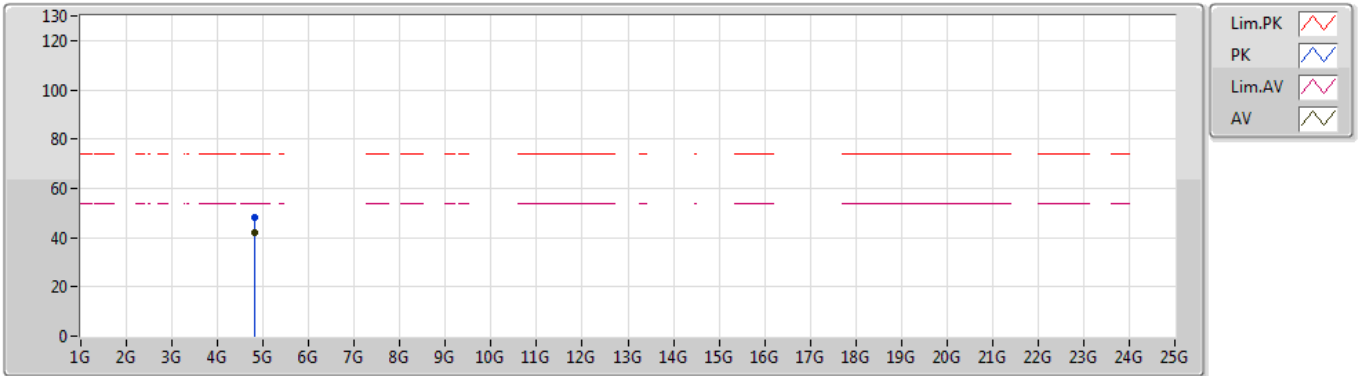


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3838G	43.63	54.00	-10.37	31.54	3	Horizontal	28	2.45	-	12.09	27.66	3.88	-
AV	2.4128G	91.75	Inf	-Inf	31.52	3	Horizontal	28	2.45	-	60.23	27.60	3.92	-
PK	2.3808G	57.02	74.00	-16.98	31.55	3	Horizontal	28	2.45	-	25.47	27.68	3.87	-
PK	2.4128G	94.18	Inf	-Inf	31.52	3	Horizontal	28	2.45	-	62.66	27.60	3.92	-

802.11b_Nss1,(1Mbps)_1TX

03/09/2020

2412MHz_TX

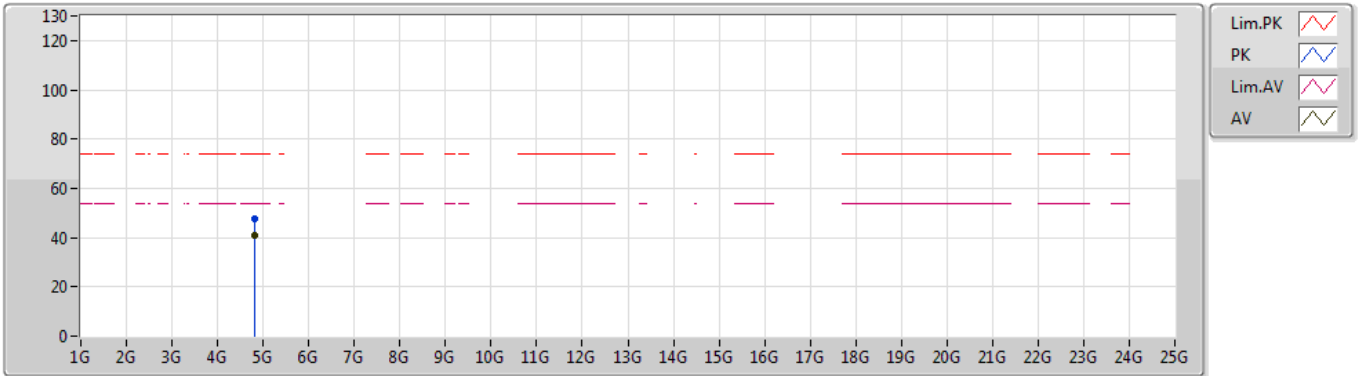


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82397G	42.21	54.00	-11.79	1.58	3	Vertical	218	2.13	-	40.63	31.20	5.31	34.93
PK	4.82396G	48.09	74.00	-25.91	1.58	3	Vertical	218	2.13	-	46.51	31.20	5.31	34.93

802.11b_Nss1,(1Mbps)_1TX

03/09/2020

2412MHz_TX

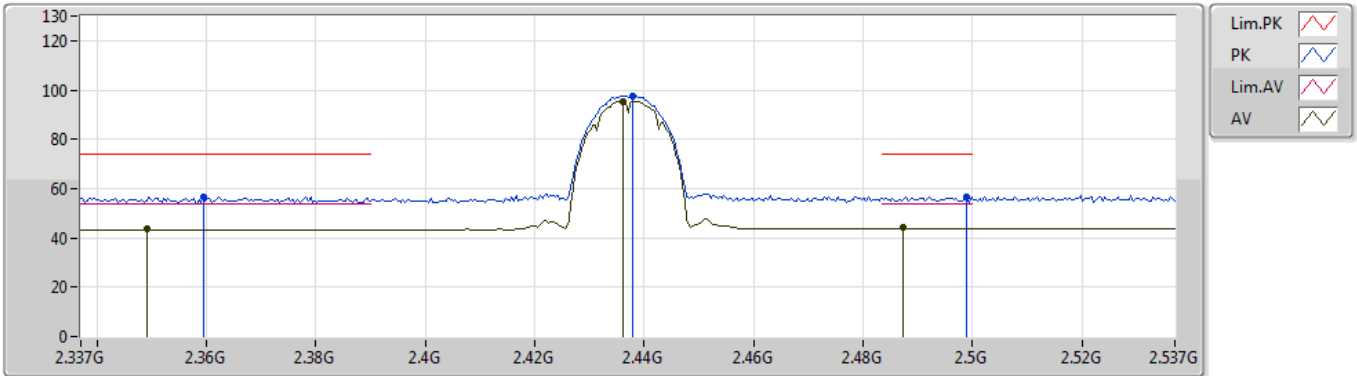


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82404G	40.85	54.00	-13.15	1.58	3	Horizontal	235	2.89	-	39.27	31.20	5.31	34.93
PK	4.82388G	47.38	74.00	-26.62	1.58	3	Horizontal	235	2.89	-	45.80	31.20	5.31	34.93

802.11b_Nss1,(1Mbps)_1TX

03/09/2020

2437MHz_TX

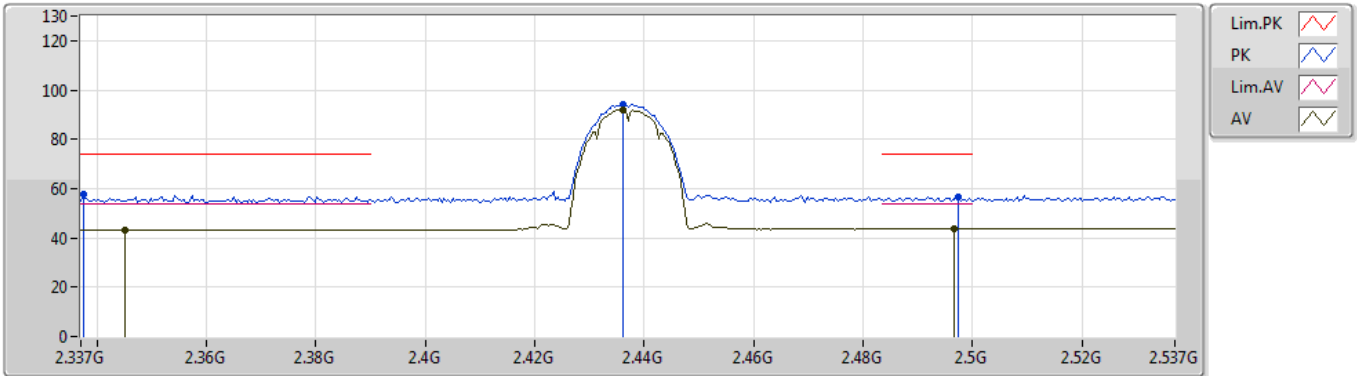


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.349G	43.45	54.00	-10.55	31.62	3	Vertical	110	1.44	-	11.83	27.80	3.82	-
AV	2.4362G	95.51	Inf	-Inf	31.55	3	Vertical	110	1.44	-	63.96	27.60	3.95	-
AV	2.4874G	44.02	54.00	-9.98	31.63	3	Vertical	110	1.44	-	12.39	27.60	4.03	-
PK	2.3594G	56.87	74.00	-17.13	31.60	3	Vertical	110	1.44	-	25.27	27.76	3.84	-
PK	2.4378G	97.75	Inf	-Inf	31.56	3	Vertical	110	1.44	-	66.19	27.60	3.96	-
PK	2.499G	56.79	74.00	-17.21	31.65	3	Vertical	110	1.44	-	25.14	27.60	4.05	-

802.11b_Nss1,(1Mbps)_1TX

03/09/2020

2437MHz_TX

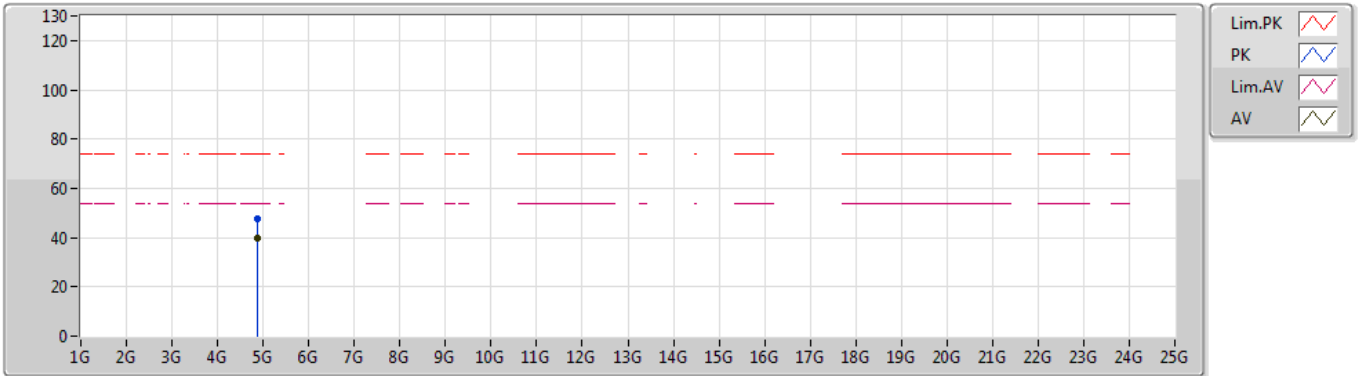


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.345G	43.42	54.00	-10.58	31.63	3	Horizontal	61	1.03	-	11.79	27.81	3.82	-
AV	2.4362G	91.97	Inf	-Inf	31.55	3	Horizontal	61	1.03	-	60.42	27.60	3.95	-
AV	2.4966G	43.82	54.00	-10.18	31.64	3	Horizontal	61	1.03	-	12.18	27.60	4.04	-
PK	2.3374G	57.50	74.00	-16.50	31.64	3	Horizontal	61	1.03	-	25.86	27.83	3.81	-
PK	2.4362G	94.24	Inf	-Inf	31.55	3	Horizontal	61	1.03	-	62.69	27.60	3.95	-
PK	2.4974G	56.71	74.00	-17.29	31.65	3	Horizontal	61	1.03	-	25.06	27.60	4.05	-

802.11b_Nss1,(1Mbps)_1TX

03/09/2020

2437MHz_TX

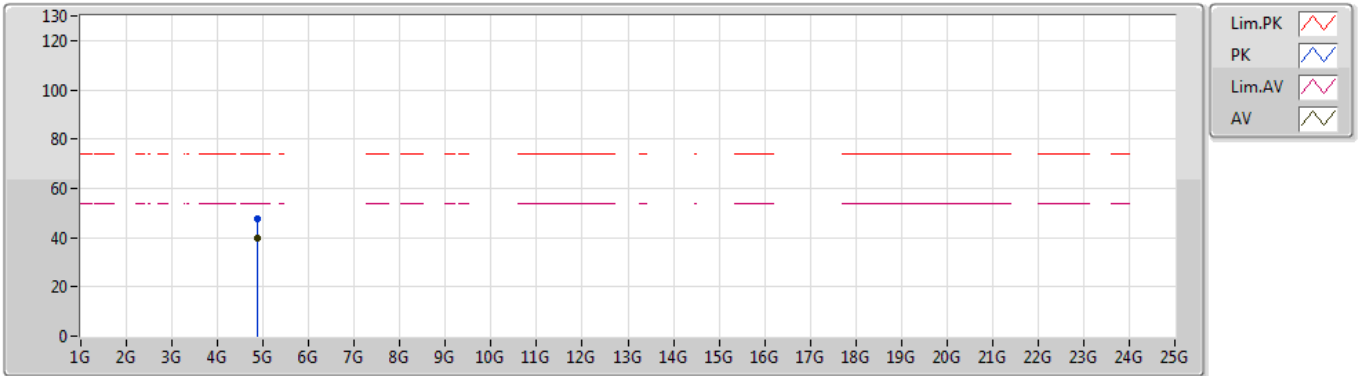


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87398G	39.76	54.00	-14.24	1.66	3	Vertical	187	1.02	-	38.10	31.25	5.34	34.93
PK	4.87414G	47.36	74.00	-26.64	1.66	3	Vertical	187	1.02	-	45.70	31.25	5.34	34.93

802.11b_Nss1,(1Mbps)_1TX

03/09/2020

2437MHz_TX

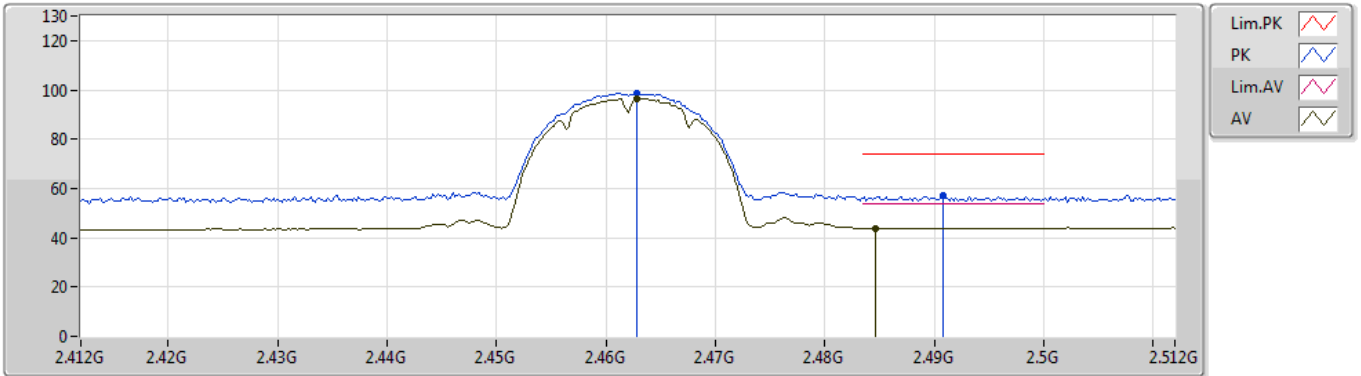


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.874G	39.86	54.00	-14.14	1.66	3	Horizontal	234	3.00	-	38.20	31.25	5.34	34.93
PK	4.87416G	47.36	74.00	-26.64	1.66	3	Horizontal	234	3.00	-	45.70	31.25	5.34	34.93

802.11b_Nss1,(1Mbps)_1TX

03/09/2020

2462MHz_TX

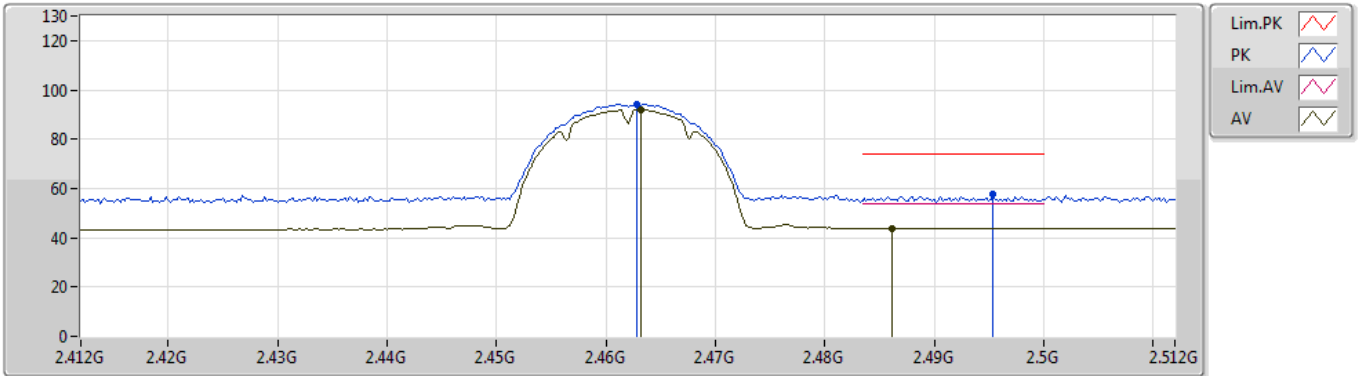


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4628G	96.35	Inf	-Inf	31.59	3	Vertical	120	2.82	-	64.76	27.60	3.99	-
AV	2.4846G	43.95	54.00	-10.05	31.63	3	Vertical	120	2.82	-	12.32	27.60	4.03	-
PK	2.4628G	98.72	Inf	-Inf	31.59	3	Vertical	120	2.82	-	67.13	27.60	3.99	-
PK	2.4908G	56.91	74.00	-17.09	31.64	3	Vertical	120	2.82	-	25.27	27.60	4.04	-

802.11b_Nss1,(1Mbps)_1TX

03/09/2020

2462MHz_TX

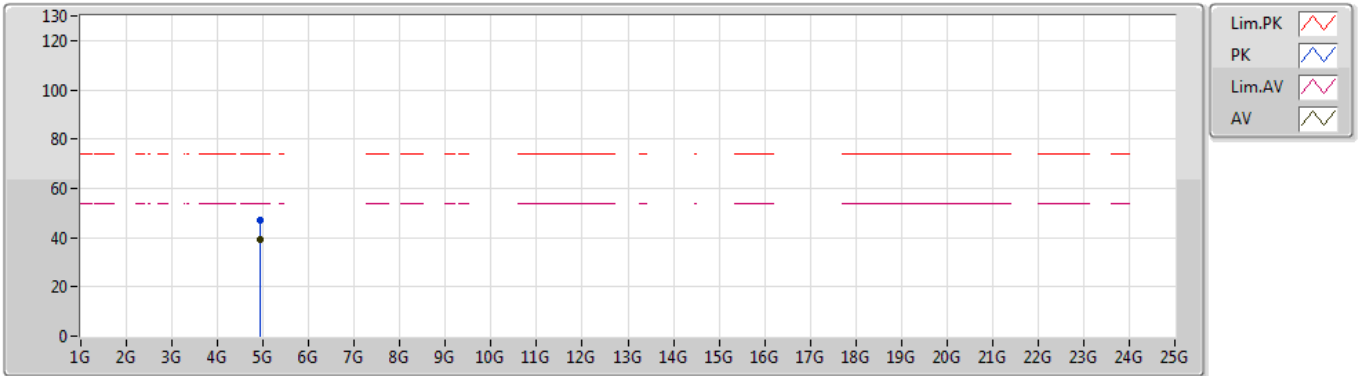


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4632G	91.89	Inf	-Inf	31.59	3	Horizontal	60	1.00	-	60.30	27.60	3.99	-
AV	2.4862G	43.86	54.00	-10.14	31.63	3	Horizontal	60	1.00	-	12.23	27.60	4.03	-
PK	2.4628G	94.34	Inf	-Inf	31.59	3	Horizontal	60	1.00	-	62.75	27.60	3.99	-
PK	2.4954G	57.47	74.00	-16.53	31.64	3	Horizontal	60	1.00	-	25.83	27.60	4.04	-

802.11b_Nss1,(1Mbps)_1TX

03/09/2020

2462MHz_TX

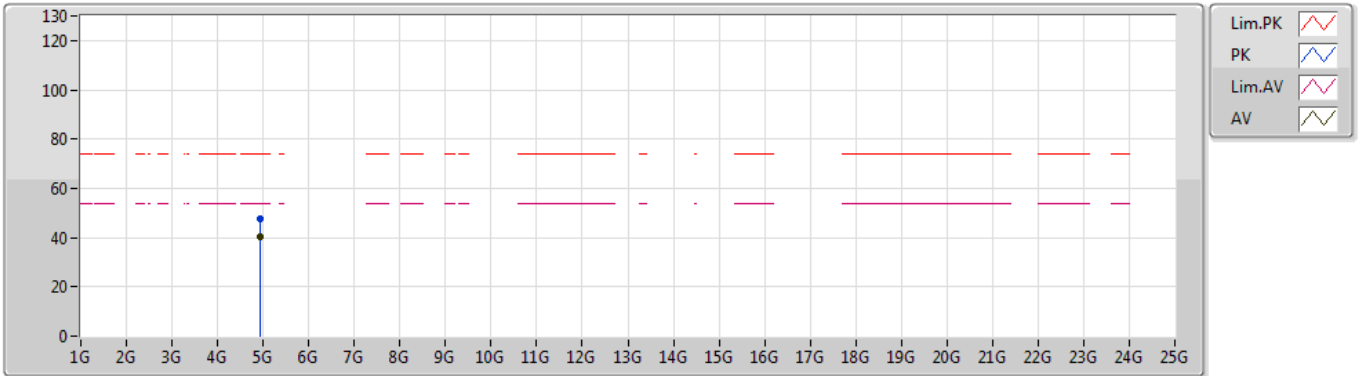


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92396G	39.39	54.00	-14.61	1.72	3	Vertical	190	1.24	-	37.67	31.30	5.36	34.94
PK	4.92405G	46.82	74.00	-27.18	1.72	3	Vertical	190	1.24	-	45.10	31.30	5.36	34.94

802.11b_Nss1,(1Mbps)_1TX

03/09/2020

2462MHz_TX

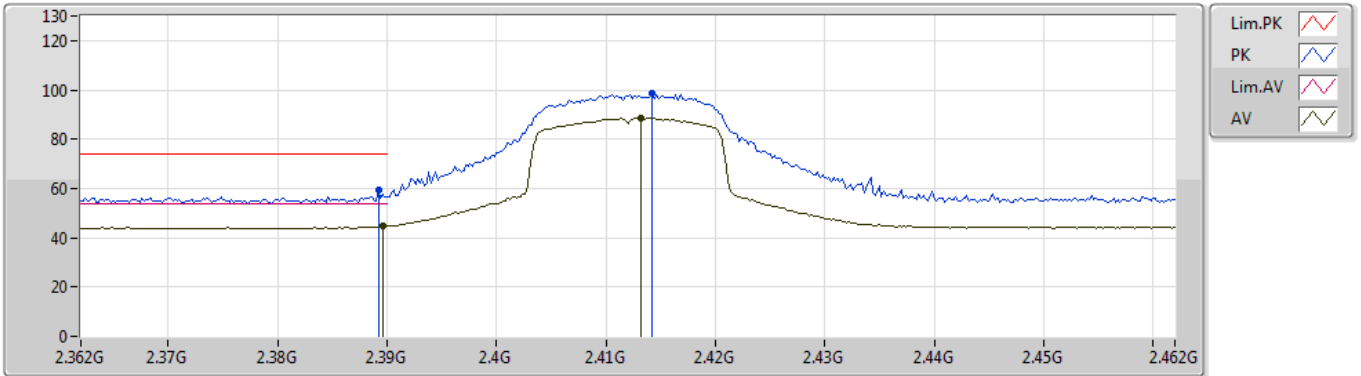


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92396G	40.11	54.00	-13.89	1.72	3	Horizontal	236	2.95	-	38.39	31.30	5.36	34.94
PK	4.9239G	47.61	74.00	-26.39	1.72	3	Horizontal	236	2.95	-	45.89	31.30	5.36	34.94

802.11g_Nss1,(6Mbps)_1TX

02/09/2020

2412MHz_TX

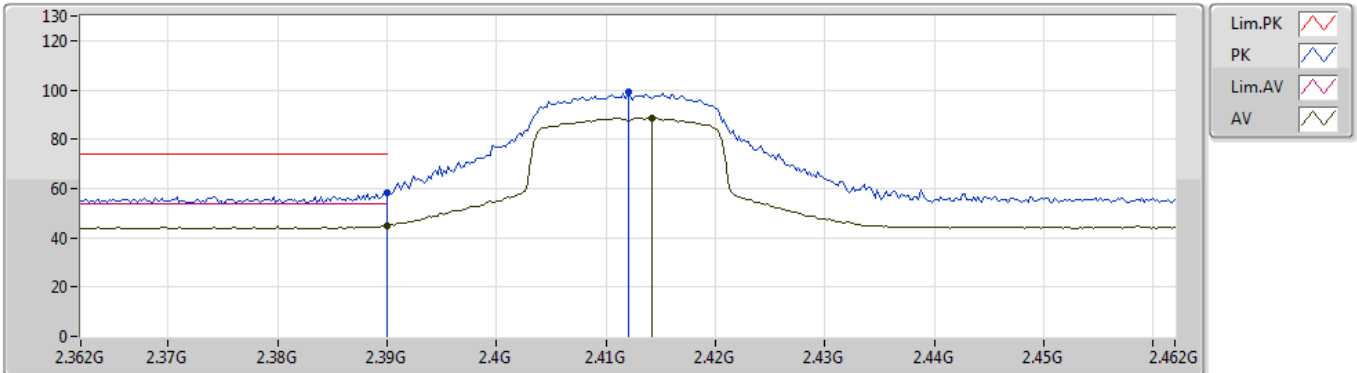


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3896G	44.64	54.00	-9.36	31.52	3	Vertical	141	1.23	-	13.12	27.64	3.88	-
AV	2.4132G	88.67	Inf	-Inf	31.52	3	Vertical	141	1.23	-	57.15	27.60	3.92	-
PK	2.3892G	59.27	74.00	-14.73	31.52	3	Vertical	141	1.23	-	27.75	27.64	3.88	-
PK	2.4142G	98.51	Inf	-Inf	31.52	3	Vertical	141	1.23	-	66.99	27.60	3.92	-

802.11g_Nss1,(6Mbps)_1TX

02/09/2020

2412MHz_TX

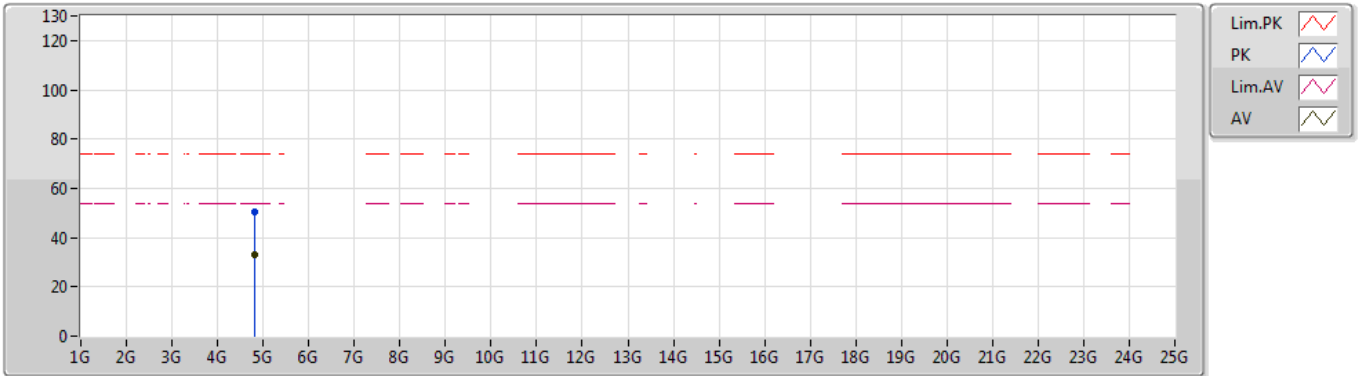


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	44.94	54.00	-9.06	31.52	3	Horizontal	199	1.80	-	13.42	27.64	3.88	-
AV	2.4142G	88.60	Inf	-Inf	31.52	3	Horizontal	199	1.80	-	57.08	27.60	3.92	-
PK	2.39G	58.30	74.00	-15.70	31.52	3	Horizontal	199	1.80	-	26.78	27.64	3.88	-
PK	2.412G	98.94	Inf	-Inf	31.52	3	Horizontal	199	1.80	-	67.42	27.60	3.92	-

802.11g_Nss1,(6Mbps)_1TX

02/09/2020

2412MHz_TX

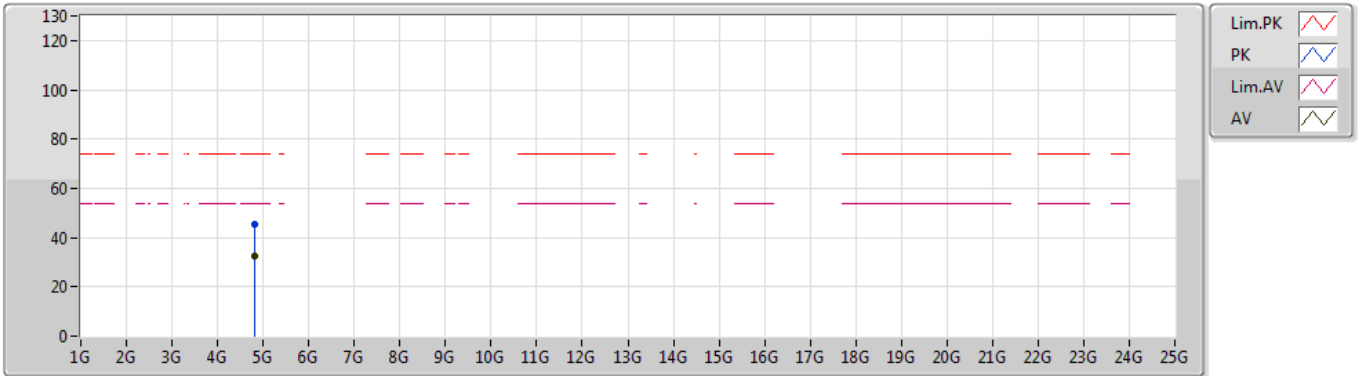


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82375G	32.79	54.00	-21.21	1.58	3	Vertical	214	1.70	-	31.21	31.20	5.31	34.93
PK	4.82264G	50.47	74.00	-23.53	1.57	3	Vertical	214	1.70	-	48.90	31.19	5.31	34.93

802.11g_Nss1,(6Mbps)_1TX

02/09/2020

2412MHz_TX

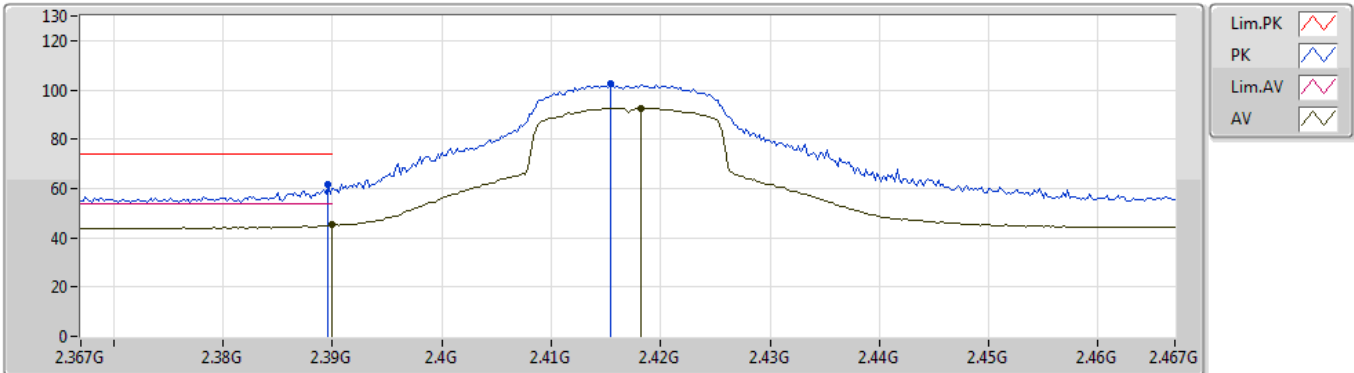


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8239G	32.51	54.00	-21.49	1.58	3	Horizontal	225	2.73	-	30.93	31.20	5.31	34.93
PK	4.82456G	45.27	74.00	-28.73	1.58	3	Horizontal	225	2.73	-	43.69	31.20	5.31	34.93

802.11g_Nss1,(6Mbps)_1TX

03/09/2020

2417MHz_TX

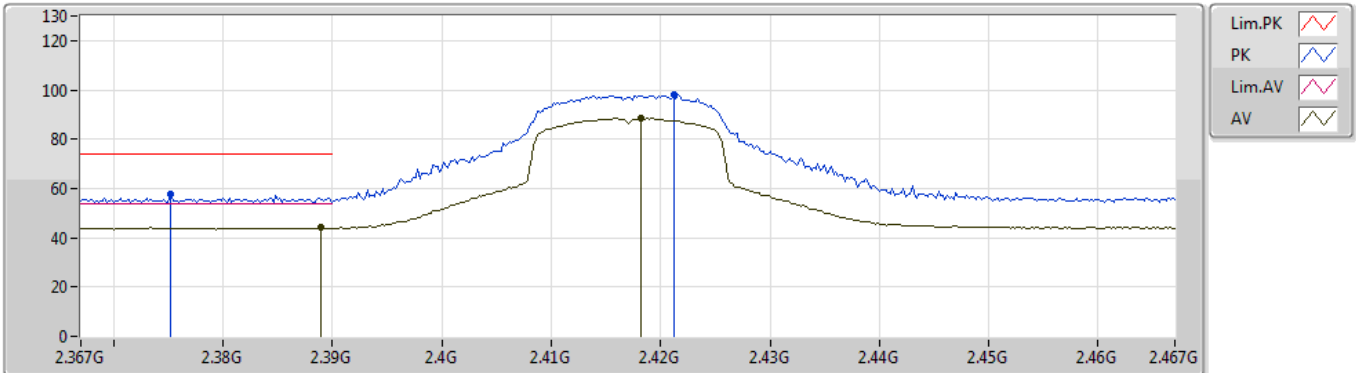


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	45.14	54.00	-8.86	31.52	3	Vertical	147	1.00	-	13.62	27.64	3.88	-
AV	2.4182G	92.64	Inf	-Inf	31.53	3	Vertical	147	1.00	-	61.11	27.60	3.93	-
PK	2.3896G	61.54	74.00	-12.46	31.52	3	Vertical	147	1.00	-	30.02	27.64	3.88	-
PK	2.4154G	102.40	Inf	-Inf	31.52	3	Vertical	147	1.00	-	70.88	27.60	3.92	-

802.11g_Nss1,(6Mbps)_1TX

03/09/2020

2417MHz_TX

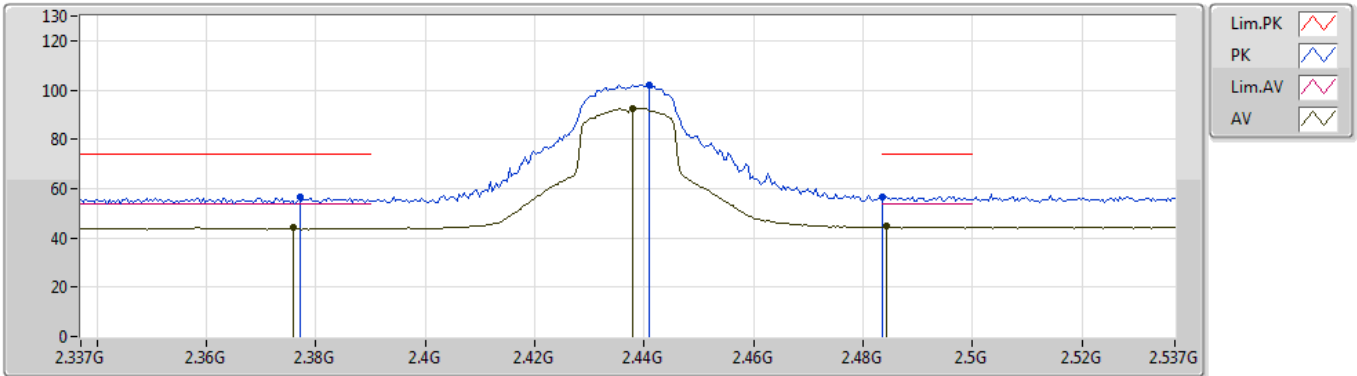


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.389G	44.12	54.00	-9.88	31.52	3	Horizontal	26	2.45	-	12.60	27.64	3.88	-
AV	2.4182G	88.35	Inf	-Inf	31.53	3	Horizontal	26	2.45	-	56.82	27.60	3.93	-
PK	2.3752G	57.54	74.00	-16.46	31.56	3	Horizontal	26	2.45	-	25.98	27.70	3.86	-
PK	2.4212G	97.80	Inf	-Inf	31.53	3	Horizontal	26	2.45	-	66.27	27.60	3.93	-

802.11g_Nss1,(6Mbps)_1TX

03/09/2020

2437MHz_TX

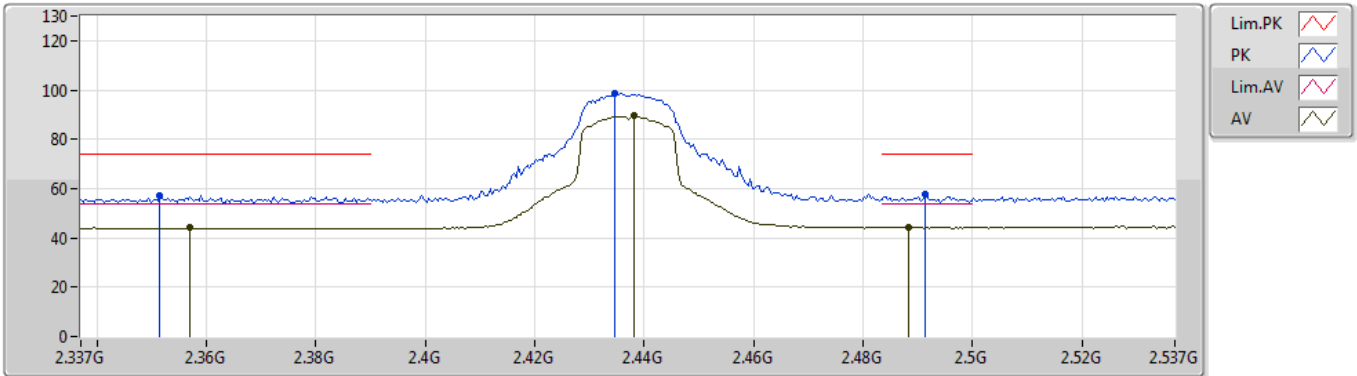


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3758G	44.13	54.00	-9.87	31.56	3	Vertical	108	1.24	-	12.57	27.70	3.86	-
AV	2.4378G	92.59	Inf	-Inf	31.56	3	Vertical	108	1.24	-	61.03	27.60	3.96	-
AV	2.4842G	44.63	54.00	-9.37	31.63	3	Vertical	108	1.24	-	13.00	27.60	4.03	-
PK	2.377G	56.32	74.00	-17.68	31.56	3	Vertical	108	1.24	-	24.76	27.69	3.87	-
PK	2.441G	102.00	Inf	-Inf	31.56	3	Vertical	108	1.24	-	70.44	27.60	3.96	-
PK	2.4835G	56.77	74.00	-17.23	31.63	3	Vertical	108	1.24	-	25.14	27.60	4.03	-

802.11g_Nss1,(6Mbps)_1TX

03/09/2020

2437MHz_TX

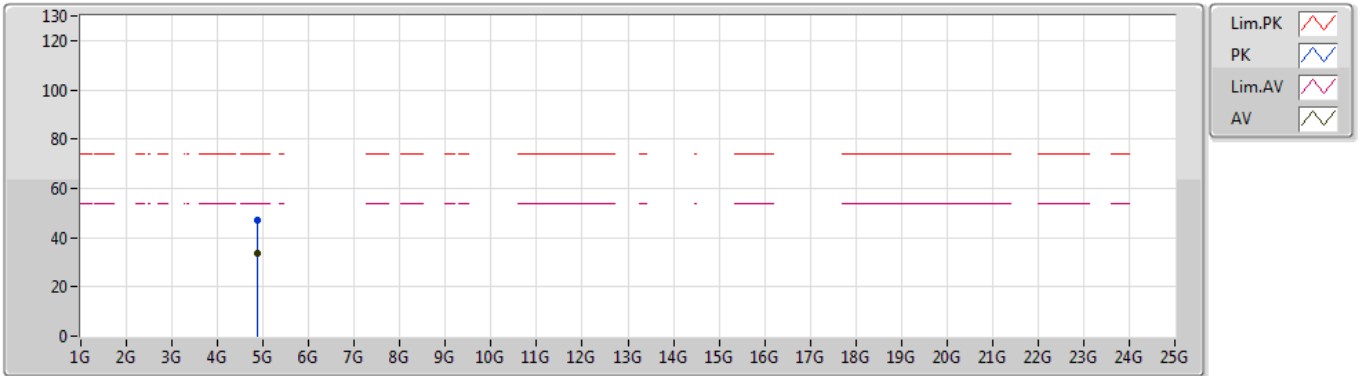


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.357G	44.19	54.00	-9.81	31.61	3	Horizontal	60	1.03	-	12.58	27.77	3.84	-
AV	2.4382G	89.40	Inf	-Inf	31.56	3	Horizontal	60	1.03	-	57.84	27.60	3.96	-
AV	2.4882G	44.34	54.00	-9.66	31.63	3	Horizontal	60	1.03	-	12.71	27.60	4.03	-
PK	2.3514G	56.91	74.00	-17.09	31.62	3	Horizontal	60	1.03	-	25.29	27.79	3.83	-
PK	2.4346G	98.69	Inf	-Inf	31.55	3	Horizontal	60	1.03	-	67.14	27.60	3.95	-
PK	2.4914G	57.44	74.00	-16.56	31.64	3	Horizontal	60	1.03	-	25.80	27.60	4.04	-

802.11g_Nss1,(6Mbps)_1TX

03/09/2020

2437MHz_TX

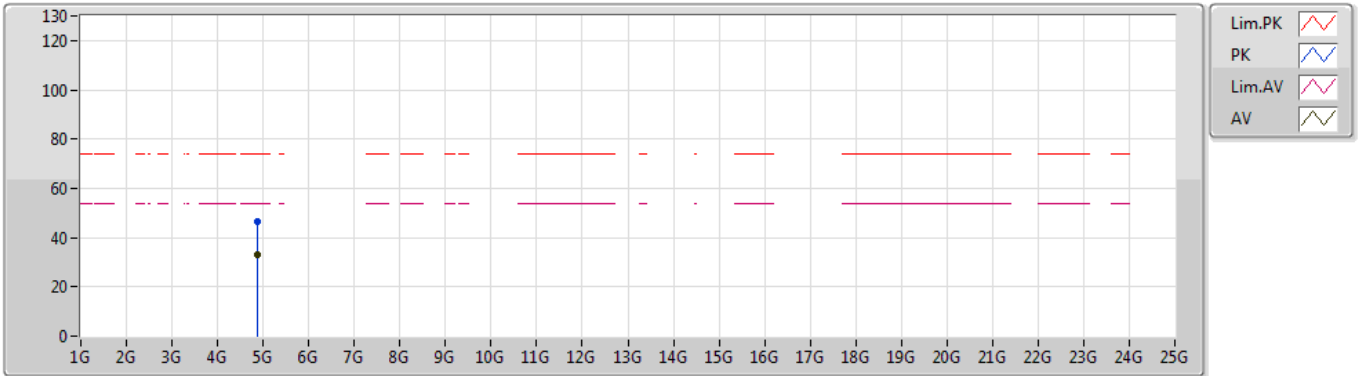


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87406G	33.56	54.00	-20.44	1.66	3	Vertical	214	2.19	-	31.90	31.25	5.34	34.93
PK	4.87316G	46.80	74.00	-27.20	1.66	3	Vertical	214	2.19	-	45.14	31.25	5.34	34.93

802.11g_Nss1,(6Mbps)_1TX

03/09/2020

2437MHz_TX

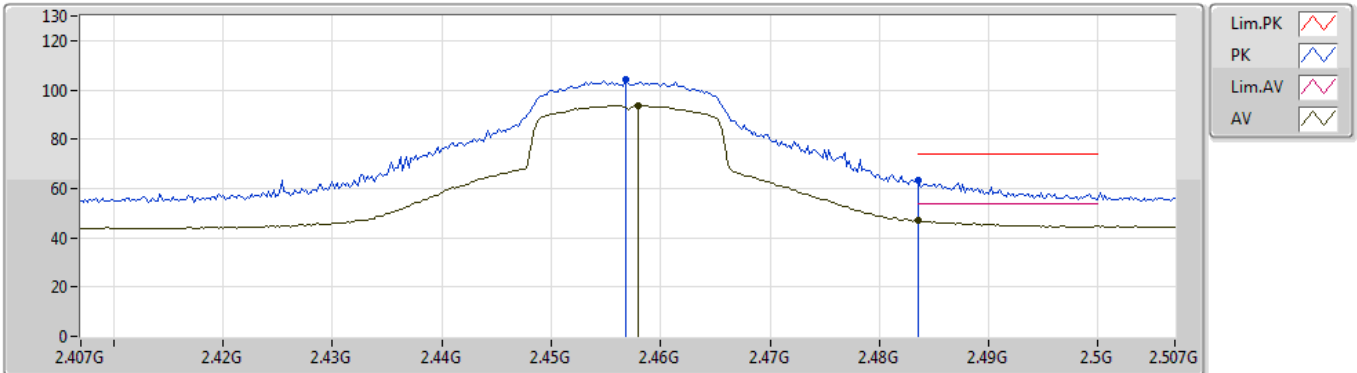


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87408G	33.31	54.00	-20.69	1.66	3	Horizontal	234	3.00	-	31.65	31.25	5.34	34.93
PK	4.87248G	46.52	74.00	-27.48	1.67	3	Horizontal	234	3.00	-	44.85	31.26	5.34	34.93

802.11g_Nss1,(6Mbps)_1TX

03/09/2020

2457MHz_TX

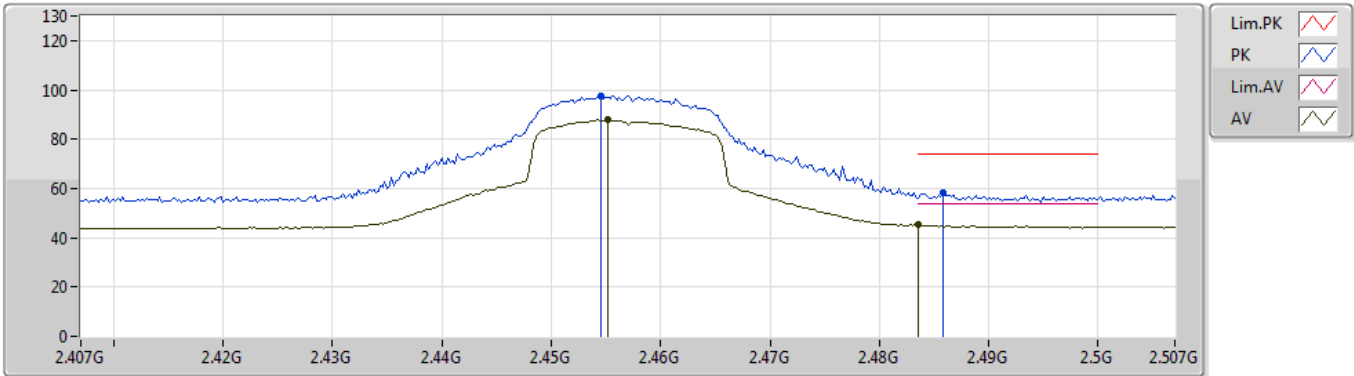


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.458G	93.72	Inf	-Inf	31.59	3	Vertical	148	1.05	-	62.13	27.60	3.99	-
AV	2.4836G	47.00	54.00	-7.00	31.63	3	Vertical	148	1.05	-	15.37	27.60	4.03	-
PK	2.4568G	104.34	Inf	-Inf	31.59	3	Vertical	148	1.05	-	72.75	27.60	3.99	-
PK	2.4835G	63.04	74.00	-10.96	31.63	3	Vertical	148	1.05	-	31.41	27.60	4.03	-

802.11g_Nss1,(6Mbps)_1TX

03/09/2020

2457MHz_TX

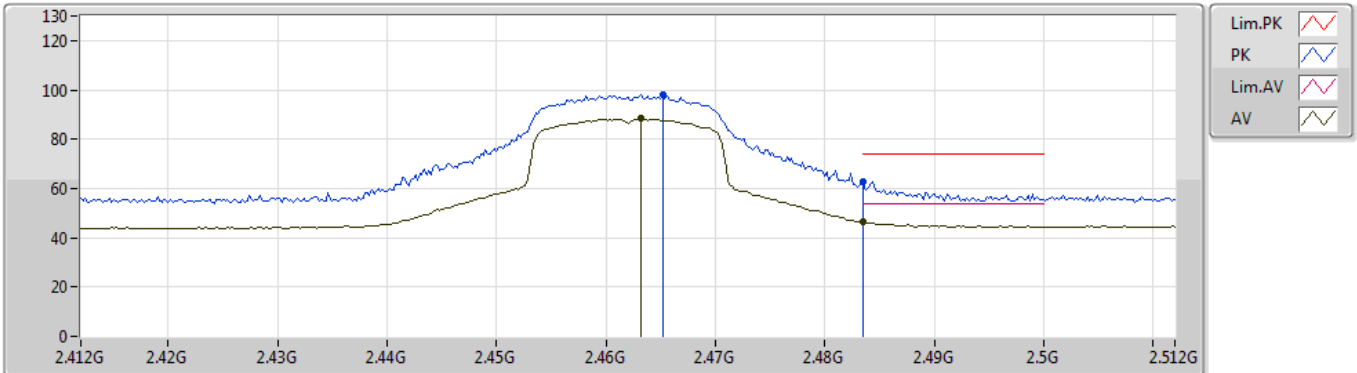


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4552G	87.76	Inf	-Inf	31.58	3	Horizontal	39	2.19	-	56.18	27.60	3.98	-
AV	2.4835G	45.17	54.00	-8.83	31.63	3	Horizontal	39	2.19	-	13.54	27.60	4.03	-
PK	2.4546G	97.49	Inf	-Inf	31.58	3	Horizontal	39	2.19	-	65.91	27.60	3.98	-
PK	2.4858G	58.31	74.00	-15.69	31.63	3	Horizontal	39	2.19	-	26.68	27.60	4.03	-

802.11g_Nss1,(6Mbps)_1TX

02/09/2020

2462MHz_TX

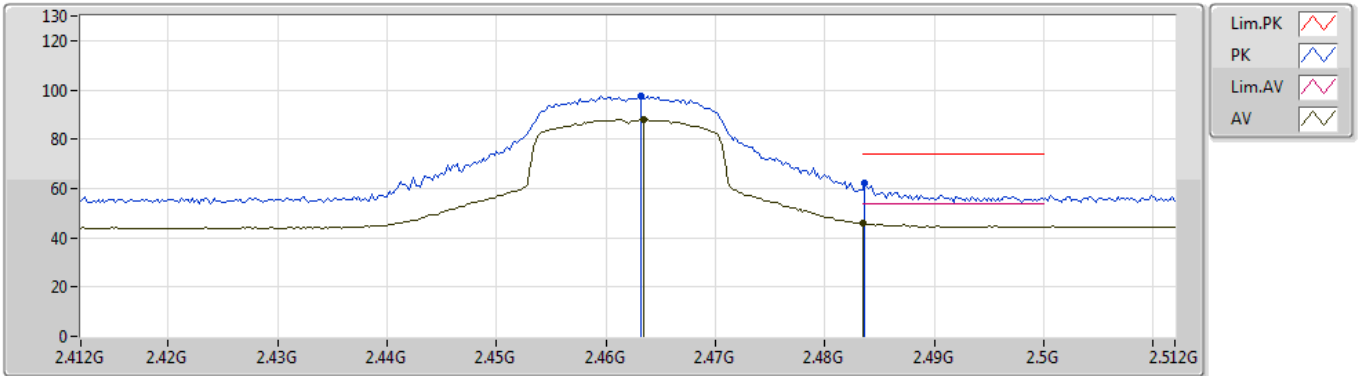


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4632G	88.40	Inf	-Inf	31.59	3	Vertical	146	1.06	-	56.81	27.60	3.99	-
AV	2.4835G	46.43	54.00	-7.57	31.63	3	Vertical	146	1.06	-	14.80	27.60	4.03	-
PK	2.4652G	98.28	Inf	-Inf	31.60	3	Vertical	146	1.06	-	66.68	27.60	4.00	-
PK	2.4835G	62.83	74.00	-11.17	31.63	3	Vertical	146	1.06	-	31.20	27.60	4.03	-

802.11g_Nss1,(6Mbps)_1TX

02/09/2020

2462MHz_TX

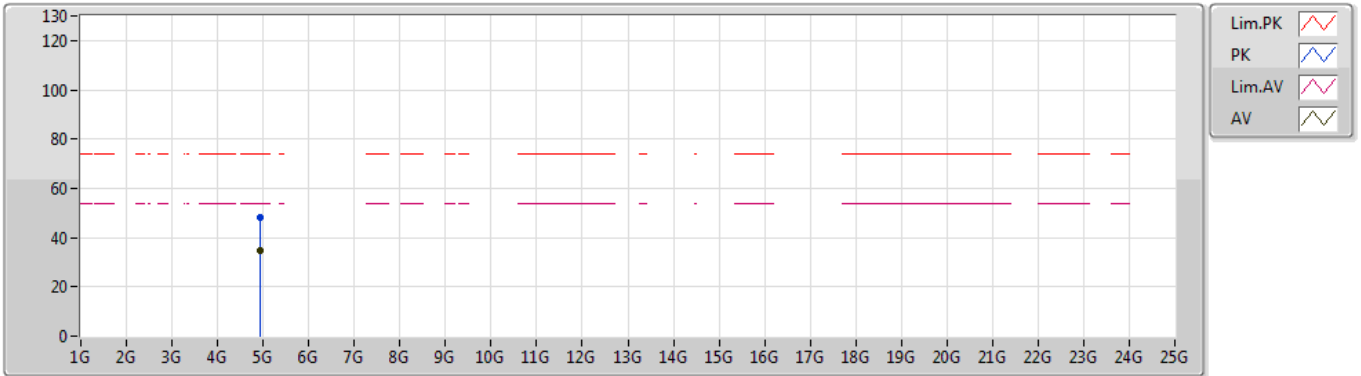


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4634G	87.97	Inf	-Inf	31.60	3	Horizontal	196	1.72	-	56.37	27.60	4.00	-
AV	2.4835G	45.83	54.00	-8.17	31.63	3	Horizontal	196	1.72	-	14.20	27.60	4.03	-
PK	2.4632G	97.51	Inf	-Inf	31.59	3	Horizontal	196	1.72	-	65.92	27.60	3.99	-
PK	2.4836G	62.18	74.00	-11.82	31.63	3	Horizontal	196	1.72	-	30.55	27.60	4.03	-

802.11g_Nss1,(6Mbps)_1TX

02/09/2020

2462MHz_TX

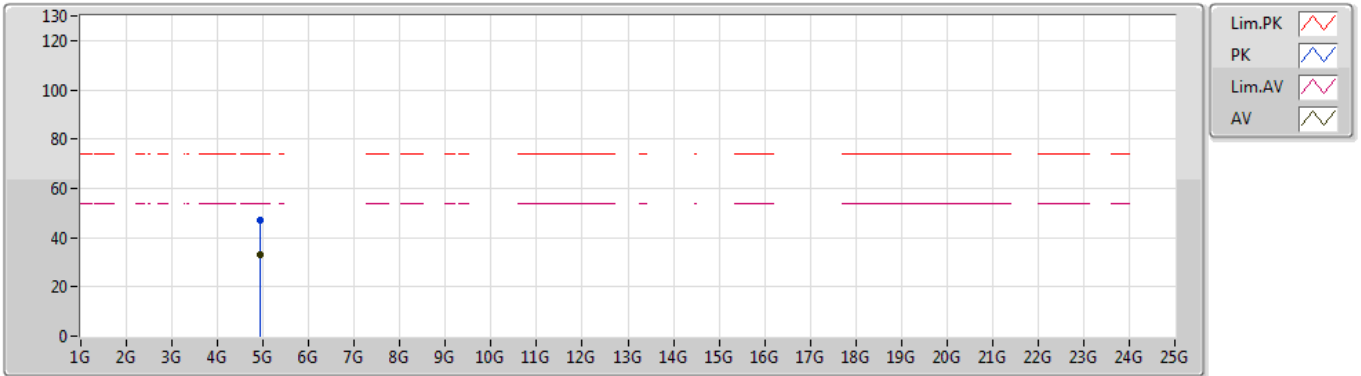


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92382G	34.82	54.00	-19.18	1.72	3	Vertical	198	1.01	-	33.10	31.30	5.36	34.94
PK	4.92286G	47.99	74.00	-26.01	1.71	3	Vertical	198	1.01	-	46.28	31.29	5.36	34.94

802.11g_Nss1,(6Mbps)_1TX

02/09/2020

2462MHz_TX

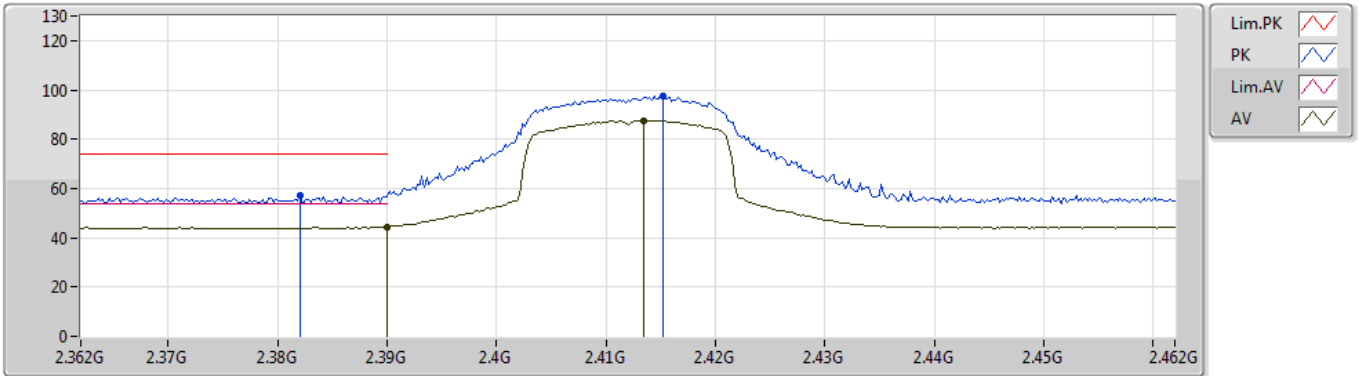


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92414G	33.17	54.00	-20.83	1.72	3	Horizontal	227	2.56	-	31.45	31.30	5.36	34.94
PK	4.92498G	46.82	74.00	-27.18	1.72	3	Horizontal	227	2.56	-	45.10	31.30	5.36	34.94

802.11n HT20_Nss1,(MCS0)_1TX

02/09/2020

2412MHz_TX

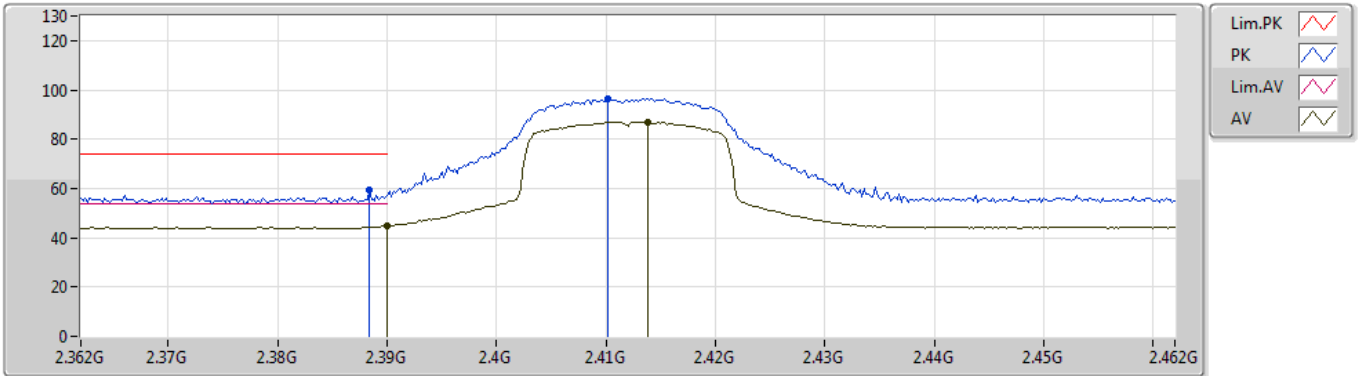


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	44.51	54.00	-9.49	31.52	3	Vertical	143	1.24	-	12.99	27.64	3.88	-
AV	2.4134G	87.66	Inf	-Inf	31.52	3	Vertical	143	1.24	-	56.14	27.60	3.92	-
PK	2.382G	56.93	74.00	-17.07	31.54	3	Vertical	143	1.24	-	25.39	27.67	3.87	-
PK	2.4152G	97.53	Inf	-Inf	31.52	3	Vertical	143	1.24	-	66.01	27.60	3.92	-

802.11n HT20_Nss1,(MCS0)_1TX

02/09/2020

2412MHz_TX

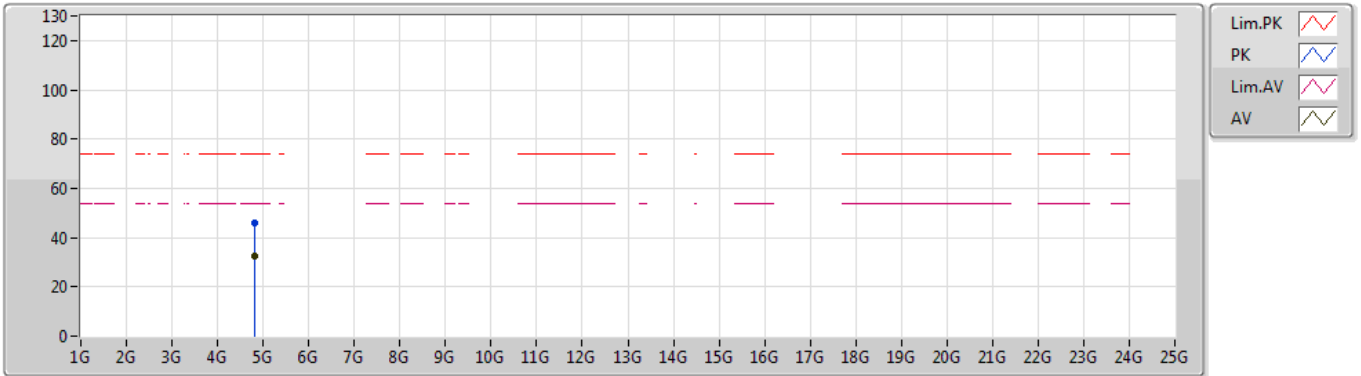


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	44.82	54.00	-9.18	31.52	3	Horizontal	197	1.79	-	13.30	27.64	3.88	-
AV	2.4138G	87.10	Inf	-Inf	31.52	3	Horizontal	197	1.79	-	55.58	27.60	3.92	-
PK	2.3884G	59.58	74.00	-14.42	31.53	3	Horizontal	197	1.79	-	28.05	27.65	3.88	-
PK	2.4102G	96.62	Inf	-Inf	31.52	3	Horizontal	197	1.79	-	65.10	27.60	3.92	-

802.11n HT20_Nss1,(MCS0)_1TX

02/09/2020

2412MHz_TX

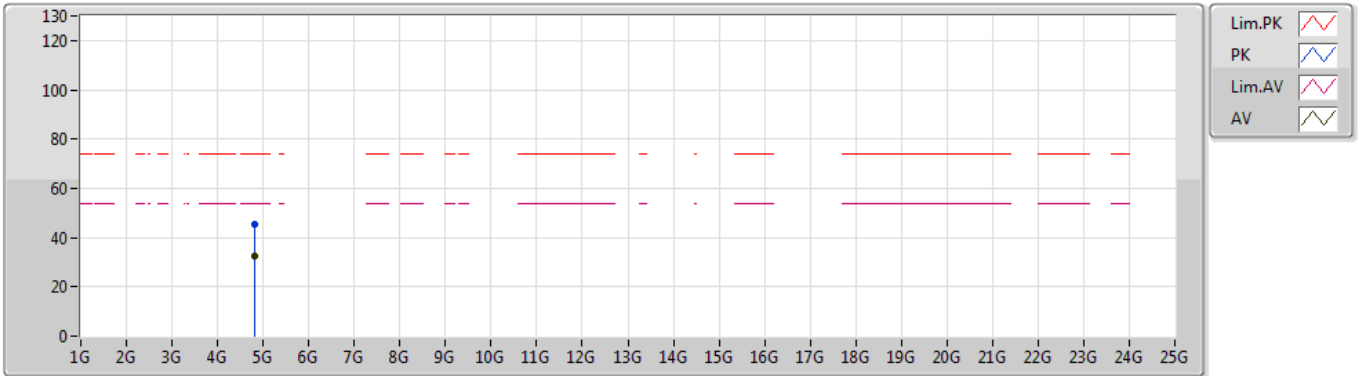


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82387G	32.58	54.00	-21.42	1.58	3	Vertical	229	1.44	-	31.00	31.20	5.31	34.93
PK	4.82186G	45.68	74.00	-28.32	1.57	3	Vertical	229	1.44	-	44.11	31.19	5.31	34.93

802.11n HT20_Nss1,(MCS0)_1TX

02/09/2020

2412MHz_TX

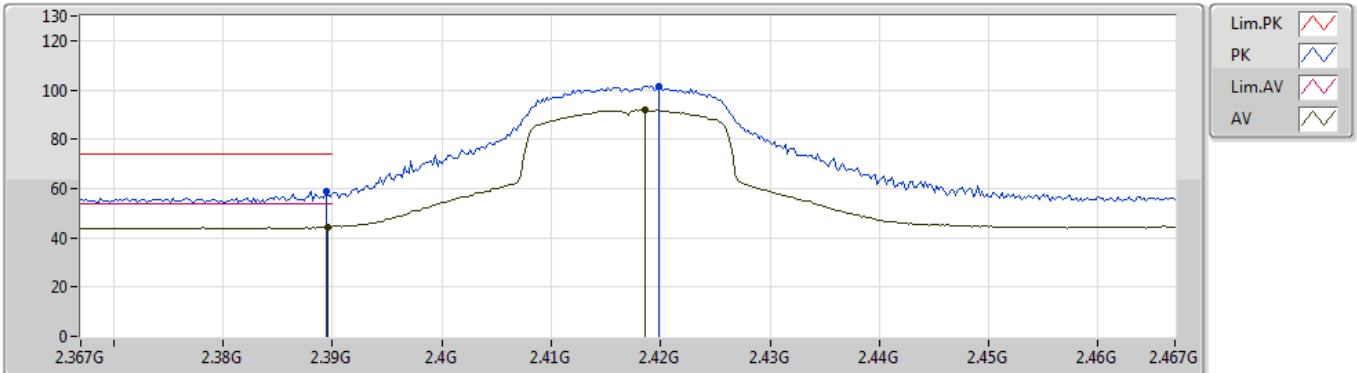


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82386G	32.40	54.00	-21.60	1.58	3	Horizontal	226	2.50	-	30.82	31.20	5.31	34.93
PK	4.82517G	45.43	74.00	-28.57	1.58	3	Horizontal	226	2.50	-	43.85	31.20	5.31	34.93

802.11n HT20_Nss1,(MCS0)_1TX

03/09/2020

2417MHz_TX

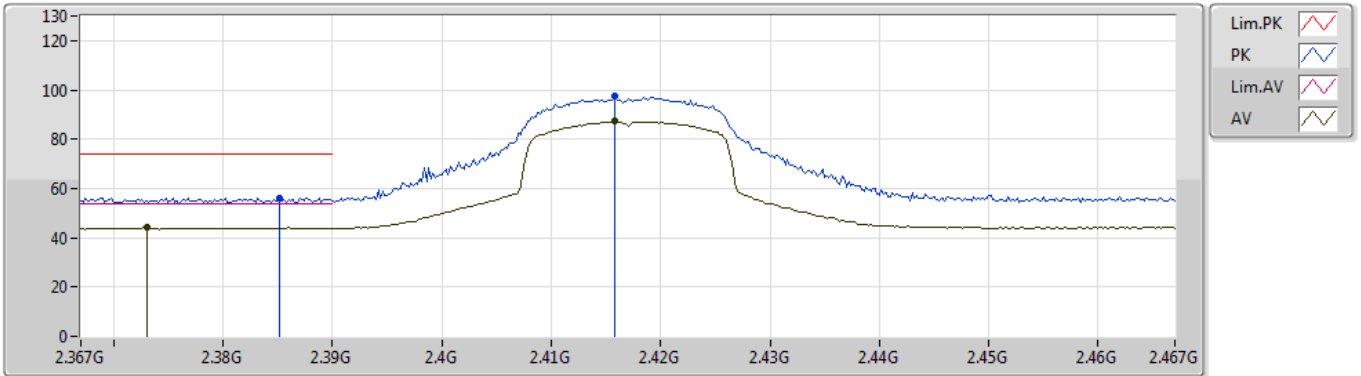


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3896G	44.37	54.00	-9.63	31.52	3	Vertical	147	1.06	-	12.85	27.64	3.88	-
AV	2.4186G	91.73	Inf	-Inf	31.53	3	Vertical	147	1.06	-	60.20	27.60	3.93	-
PK	2.3894G	58.73	74.00	-15.27	31.52	3	Vertical	147	1.06	-	27.21	27.64	3.88	-
PK	2.4198G	101.36	Inf	-Inf	31.53	3	Vertical	147	1.06	-	69.83	27.60	3.93	-

802.11n HT20_Nss1,(MCS0)_1TX

03/09/2020

2417MHz_TX

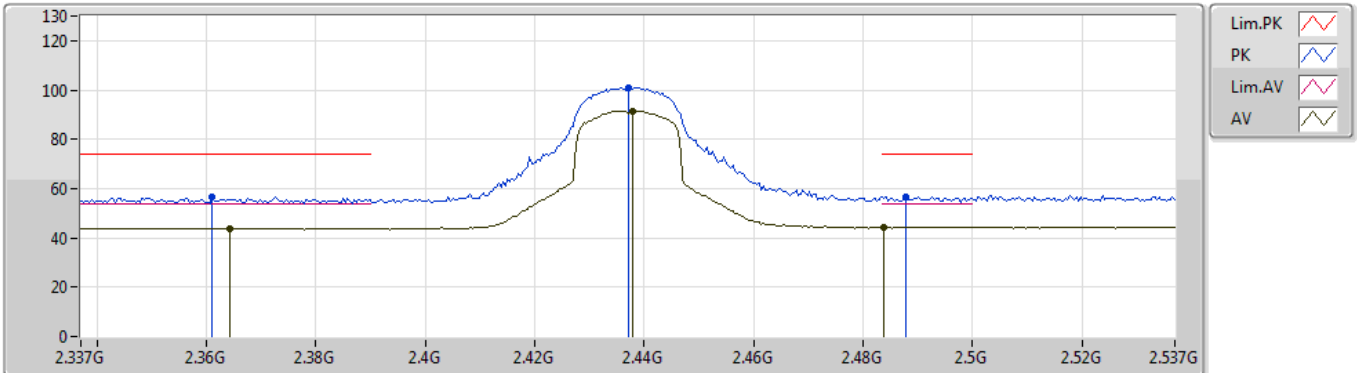


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.373G	44.07	54.00	-9.93	31.57	3	Horizontal	25	2.47	-	12.50	27.71	3.86	-
AV	2.4158G	87.18	Inf	-Inf	31.52	3	Horizontal	25	2.47	-	55.66	27.60	3.92	-
PK	2.3852G	56.20	74.00	-17.80	31.54	3	Horizontal	25	2.47	-	24.66	27.66	3.88	-
PK	2.4158G	97.24	Inf	-Inf	31.52	3	Horizontal	25	2.47	-	65.72	27.60	3.92	-

802.11n HT20_Nss1,(MCS0)_1TX

03/09/2020

2437MHz_TX

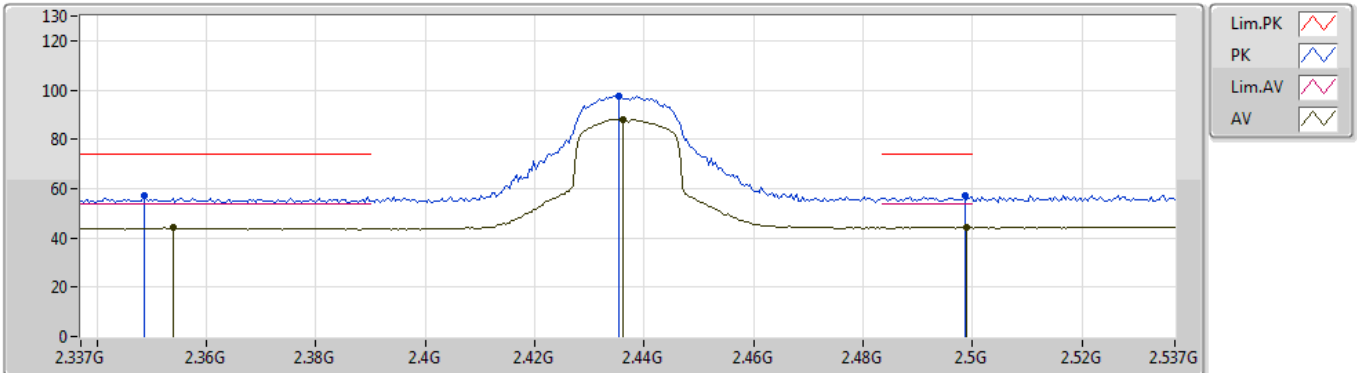


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3642G	43.92	54.00	-10.08	31.59	3	Vertical	110	1.44	-	12.33	27.74	3.85	-
AV	2.4378G	91.60	Inf	-Inf	31.56	3	Vertical	110	1.44	-	60.04	27.60	3.96	-
AV	2.4838G	44.43	54.00	-9.57	31.63	3	Vertical	110	1.44	-	12.80	27.60	4.03	-
PK	2.361G	56.58	74.00	-17.42	31.60	3	Vertical	110	1.44	-	24.98	27.76	3.84	-
PK	2.437G	100.98	Inf	-Inf	31.56	3	Vertical	110	1.44	-	69.42	27.60	3.96	-
PK	2.4878G	56.82	74.00	-17.18	31.63	3	Vertical	110	1.44	-	25.19	27.60	4.03	-

802.11n HT20_Nss1,(MCS0)_1TX

03/09/2020

2437MHz_TX

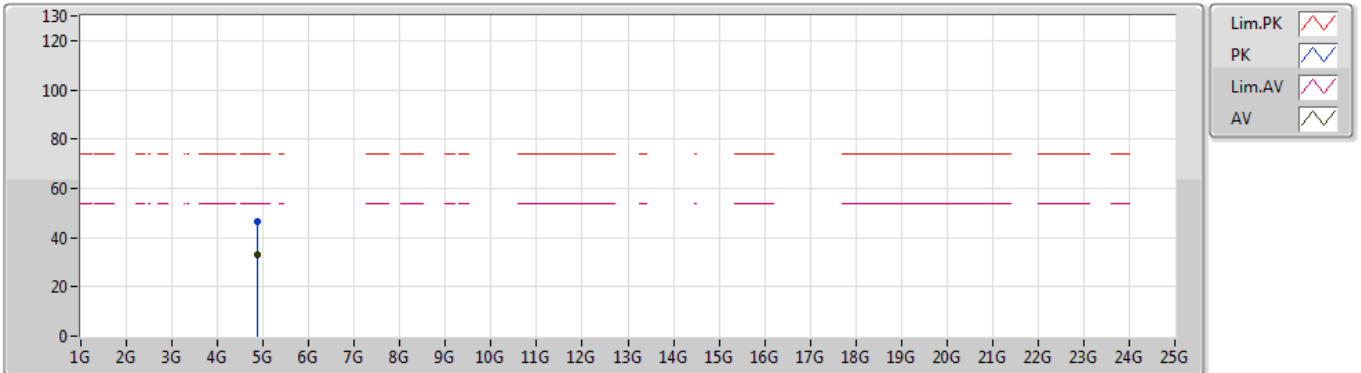


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3538G	44.05	54.00	-9.95	31.61	3	Horizontal	59	1.00	-	12.44	27.78	3.83	-
AV	2.4362G	88.20	Inf	-Inf	31.55	3	Horizontal	59	1.00	-	56.65	27.60	3.95	-
AV	2.499G	44.42	54.00	-9.58	31.65	3	Horizontal	59	1.00	-	12.77	27.60	4.05	-
PK	2.3486G	56.99	74.00	-17.01	31.62	3	Horizontal	59	1.00	-	25.37	27.80	3.82	-
PK	2.4354G	97.59	Inf	-Inf	31.55	3	Horizontal	59	1.00	-	66.04	27.60	3.95	-
PK	2.4986G	57.02	74.00	-16.98	31.65	3	Horizontal	59	1.00	-	25.37	27.60	4.05	-

802.11n HT20_Nss1,(MCS0)_1TX

03/09/2020

2437MHz_TX

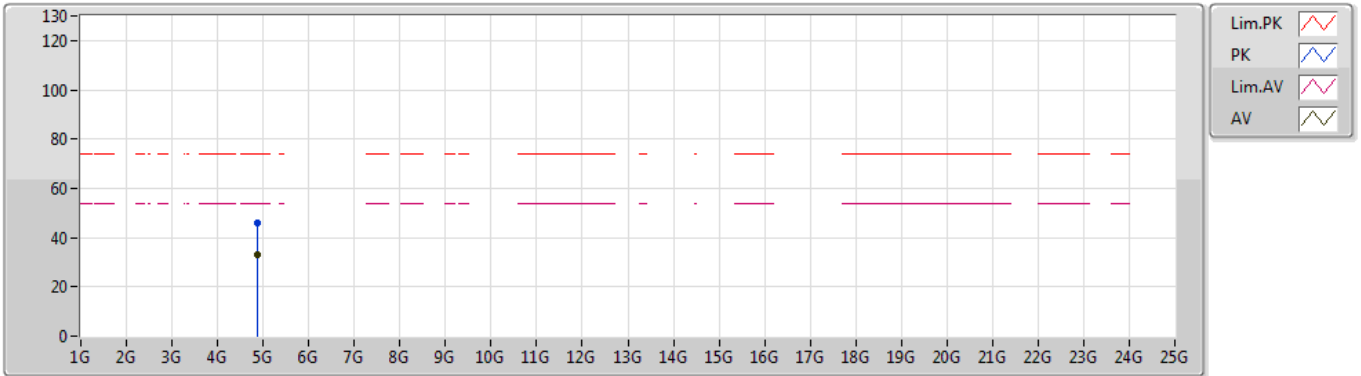


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87372G	33.05	54.00	-20.95	1.66	3	Vertical	215	2.20	-	31.39	31.25	5.34	34.93
PK	4.87404G	46.44	74.00	-27.56	1.66	3	Vertical	215	2.20	-	44.78	31.25	5.34	34.93

802.11n HT20_Nss1,(MCS0)_1TX

03/09/2020

2437MHz_TX

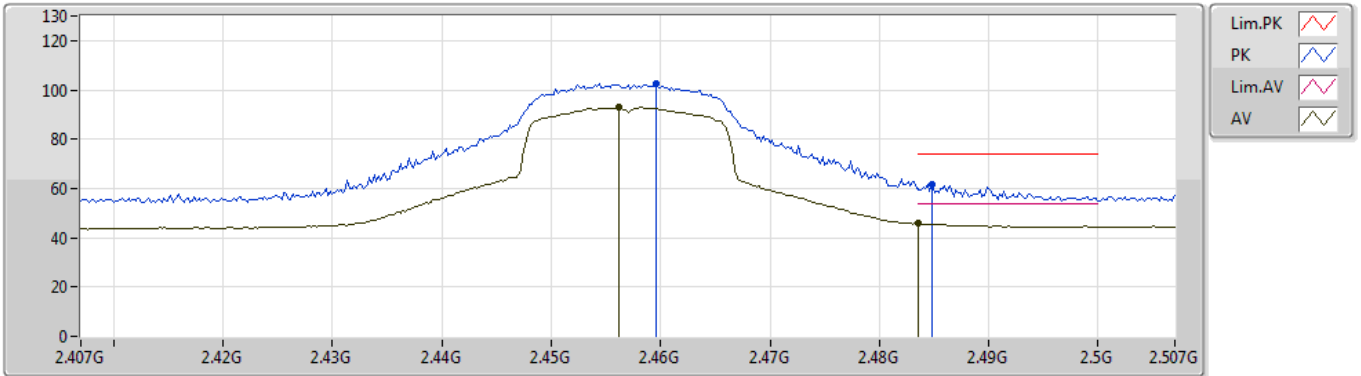


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87412G	33.00	54.00	-21.00	1.66	3	Horizontal	234	2.91	-	31.34	31.25	5.34	34.93
PK	4.87764G	45.92	74.00	-28.08	1.65	3	Horizontal	234	2.91	-	44.27	31.24	5.34	34.93

802.11n HT20_Nss1,(MCS0)_1TX

03/09/2020

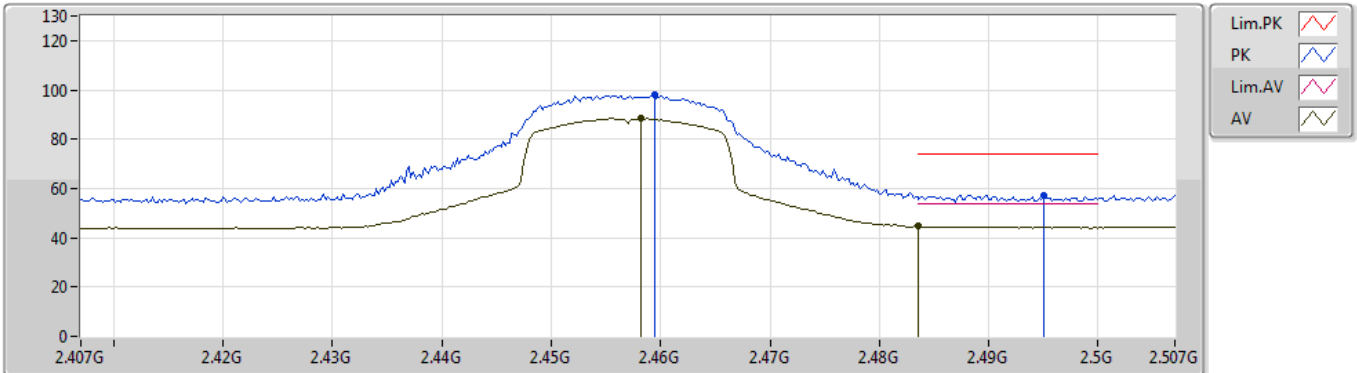
2457MHz_TX



802.11n HT20_Nss1,(MCS0)_1TX

03/09/2020

2457MHz_TX

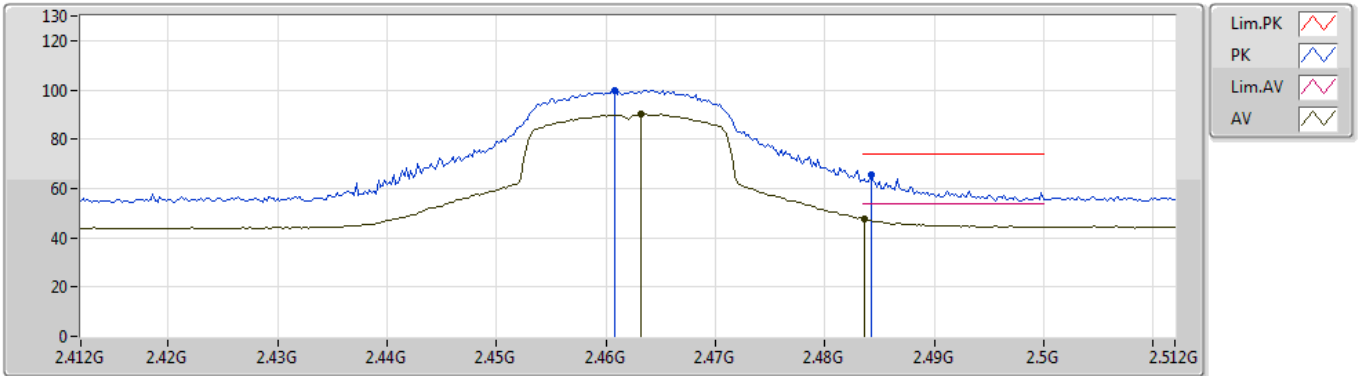


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4582G	88.51	Inf	-Inf	31.59	3	Horizontal	31	2.65	-	56.92	27.60	3.99	-
AV	2.4835G	44.87	54.00	-9.13	31.63	3	Horizontal	31	2.65	-	13.24	27.60	4.03	-
PK	2.4594G	97.95	Inf	-Inf	31.59	3	Horizontal	31	2.65	-	66.36	27.60	3.99	-
PK	2.495G	57.36	74.00	-16.64	31.64	3	Horizontal	31	2.65	-	25.72	27.60	4.04	-

802.11n HT20_Nss1,(MCS0)_1TX

03/09/2020

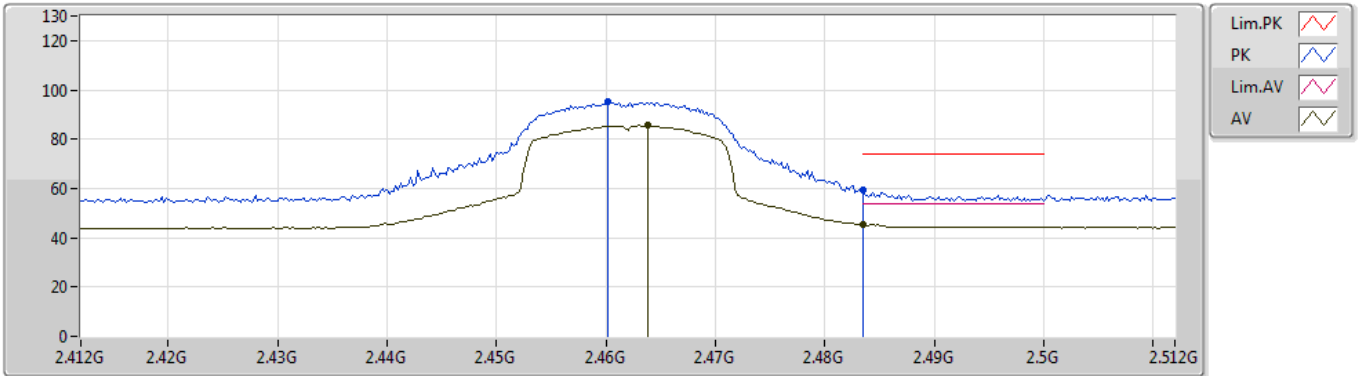
2462MHz_TX



802.11n HT20_Nss1,(MCS0)_1TX

03/09/2020

2462MHz_TX

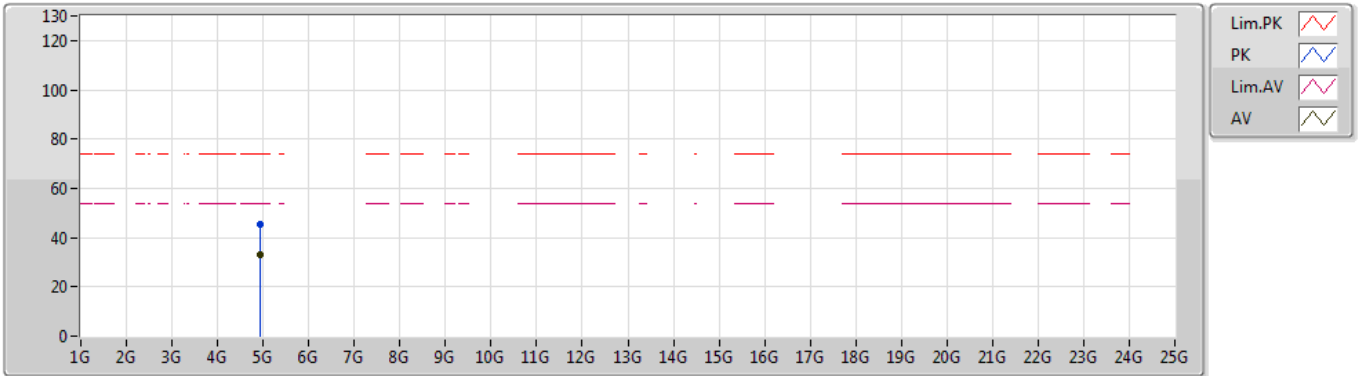


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4638G	85.70	Inf	-Inf	31.60	3	Horizontal	60	1.00	-	54.10	27.60	4.00	-
AV	2.4835G	45.44	54.00	-8.56	31.63	3	Horizontal	60	1.00	-	13.81	27.60	4.03	-
PK	2.4602G	95.11	Inf	-Inf	31.59	3	Horizontal	60	1.00	-	63.52	27.60	3.99	-
PK	2.4835G	59.23	74.00	-14.77	31.63	3	Horizontal	60	1.00	-	27.60	27.60	4.03	-

802.11n HT20_Nss1,(MCS0)_1TX

03/09/2020

2462MHz_TX

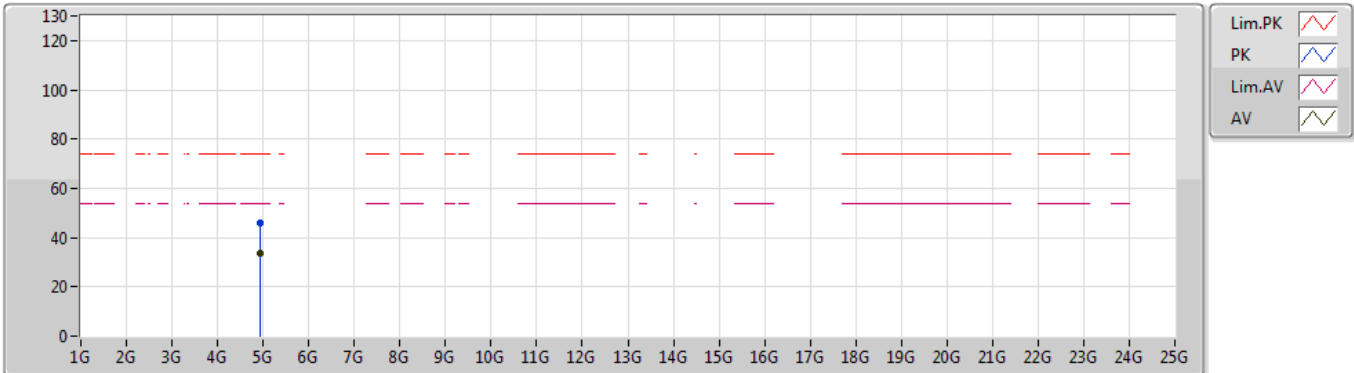


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92408G	32.84	54.00	-21.16	1.72	3	Vertical	185	1.24	-	31.12	31.30	5.36	34.94
PK	4.9256G	45.52	74.00	-28.48	1.72	3	Vertical	185	1.24	-	43.80	31.30	5.36	34.94

802.11n HT20_Nss1,(MCS0)_1TX

03/09/2020

2462MHz_TX

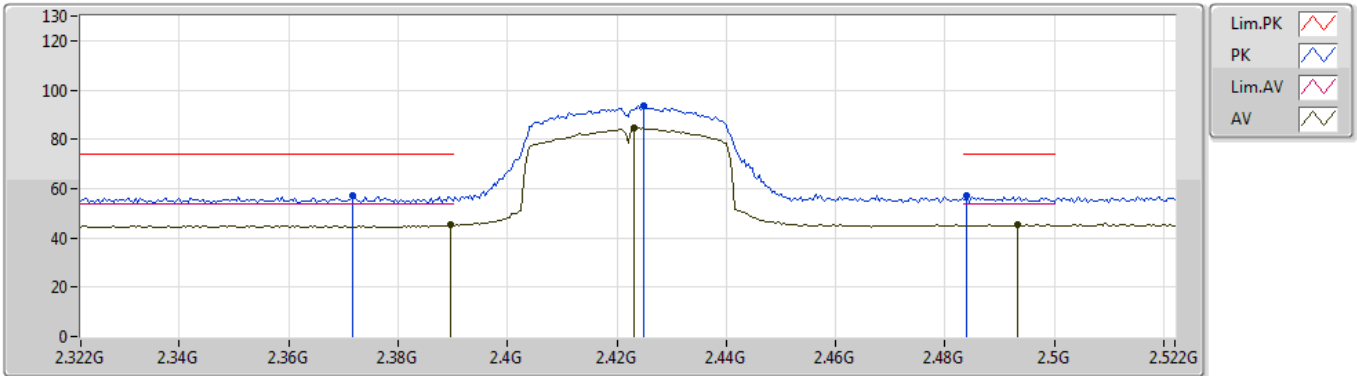


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9238G	33.38	54.00	-20.62	1.72	3	Horizontal	235	3.00	-	31.66	31.30	5.36	34.94
PK	4.92136G	46.04	74.00	-27.96	1.71	3	Horizontal	235	3.00	-	44.33	31.29	5.36	34.94

802.11n HT40_Nss1,(MCS0)_1TX

02/09/2020

2422MHz_TX

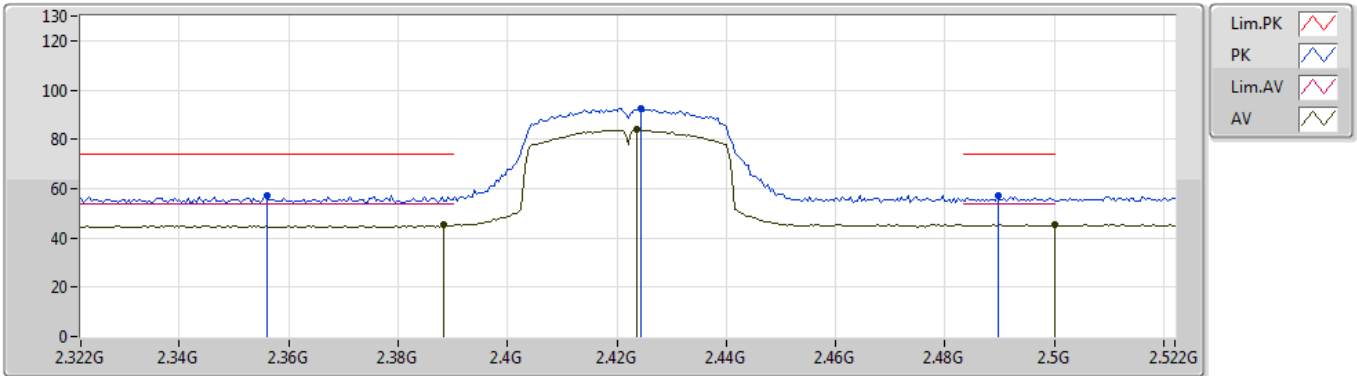


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3896G	45.14	54.00	-8.86	31.52	3	Vertical	141	1.10	-	13.62	27.64	3.88	-
AV	2.4232G	84.48	Inf	-Inf	31.53	3	Vertical	141	1.10	-	52.95	27.60	3.93	-
AV	2.4932G	45.42	54.00	-8.58	31.64	3	Vertical	141	1.10	-	13.78	27.60	4.04	-
PK	2.3716G	57.07	74.00	-16.93	31.57	3	Vertical	141	1.10	-	25.50	27.71	3.86	-
PK	2.4248G	93.73	Inf	-Inf	31.54	3	Vertical	141	1.10	-	62.19	27.60	3.94	-
PK	2.484G	57.02	74.00	-16.98	31.63	3	Vertical	141	1.10	-	25.39	27.60	4.03	-

802.11n HT40_Nss1,(MCS0)_1TX

02/09/2020

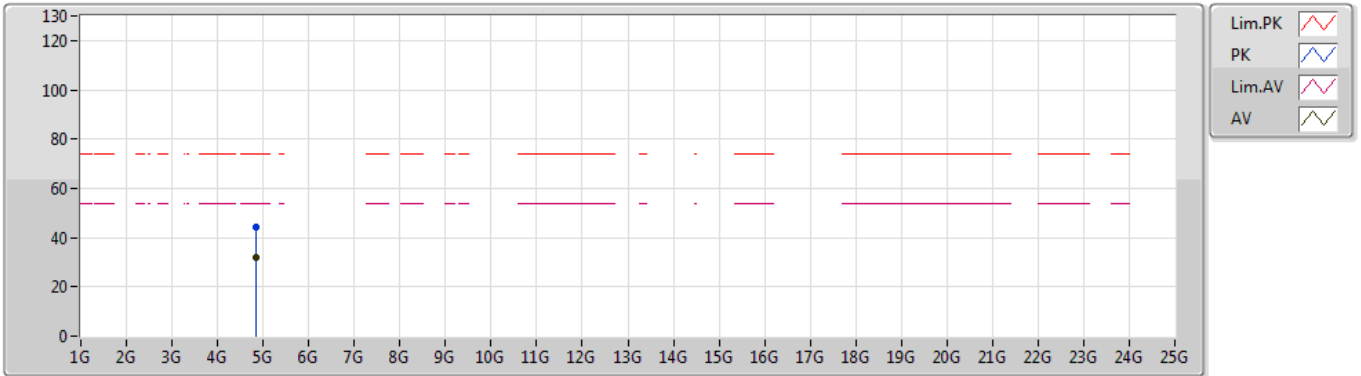
2422MHz_TX



802.11n HT40_Nss1,(MCS0)_1TX

02/09/2020

2422MHz_TX

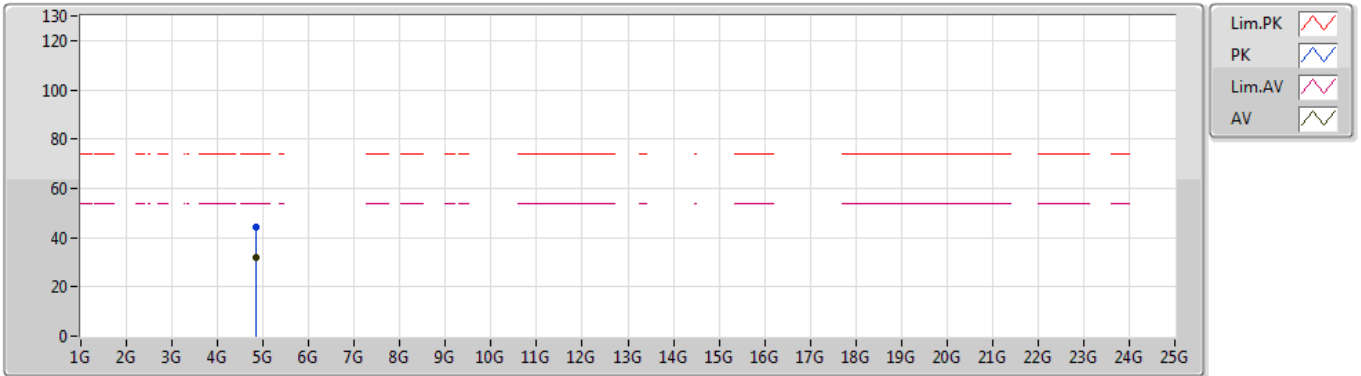


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.84183G	31.99	54.00	-22.01	1.66	3	Vertical	95	1.73	-	30.33	31.27	5.32	34.93
PK	4.84263G	44.05	74.00	-29.95	1.66	3	Vertical	95	1.73	-	42.39	31.27	5.32	34.93

802.11n HT40_Nss1,(MCS0)_1TX

02/09/2020

2422MHz_TX

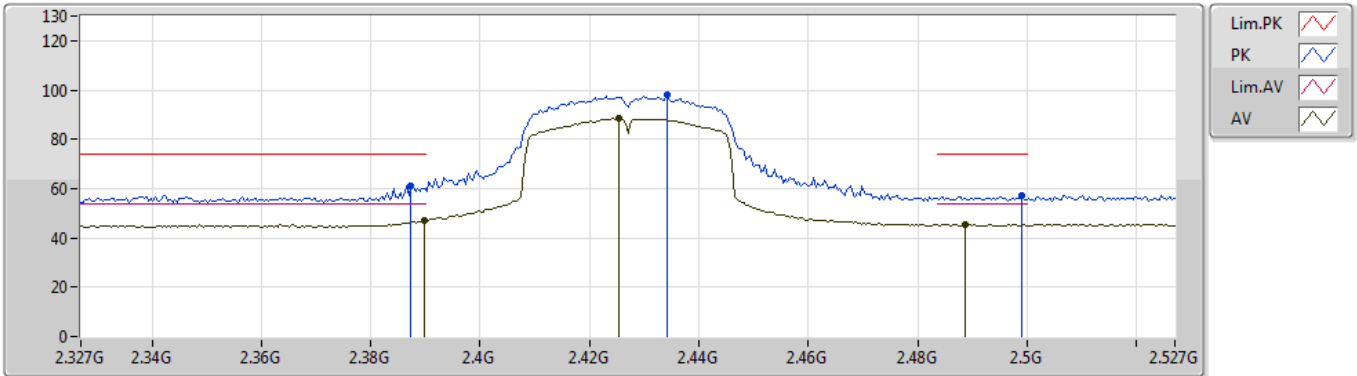


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8439G	32.04	54.00	-21.96	1.67	3	Horizontal	256	1.81	-	30.37	31.28	5.32	34.93
PK	4.84408G	44.31	74.00	-29.69	1.67	3	Horizontal	256	1.81	-	42.64	31.28	5.32	34.93

802.11n HT40_Nss1,(MCS0)_1TX

02/09/2020

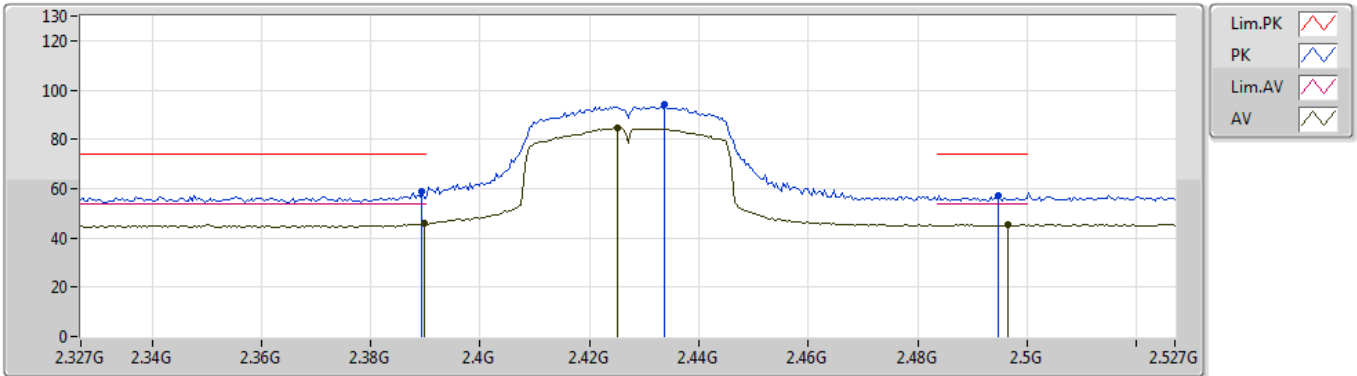
2427MHz_TX



802.11n HT40_Nss1,(MCS0)_1TX

02/09/2020

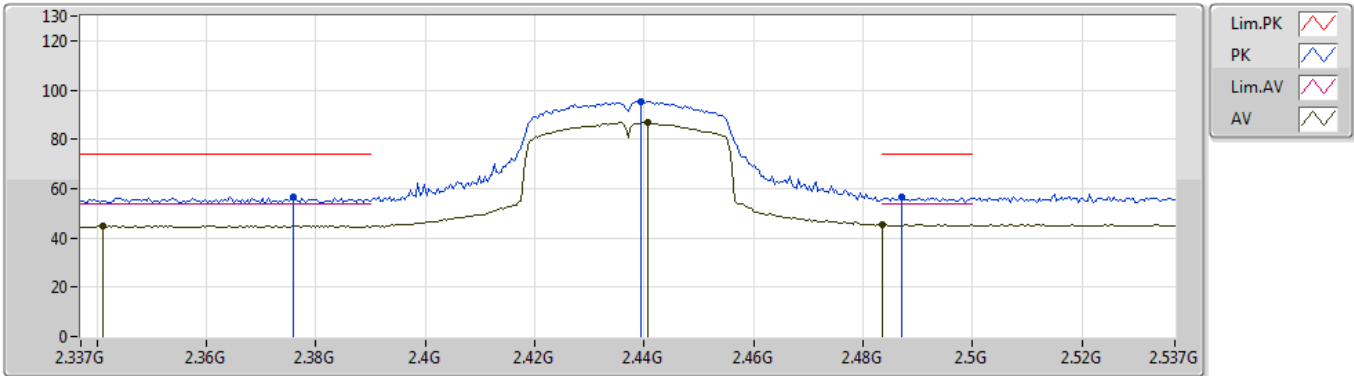
2427MHz_TX



802.11n HT40_Nss1,(MCS0)_1TX

02/09/2020

2437MHz_TX

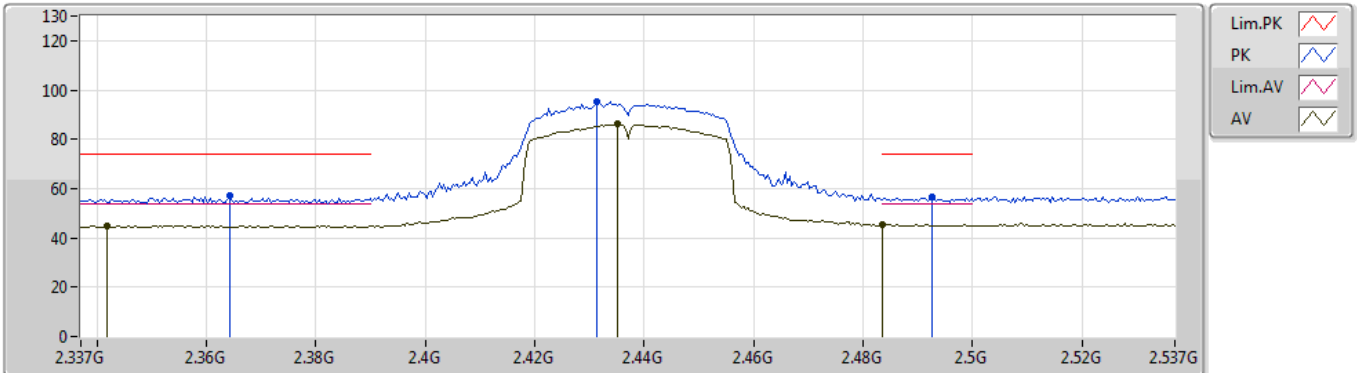


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.341G	44.90	54.00	-9.10	31.63	3	Vertical	141	1.16	-	13.27	27.82	3.81	-
AV	2.4406G	86.73	Inf	-Inf	31.56	3	Vertical	141	1.16	-	55.17	27.60	3.96	-
AV	2.4835G	45.61	54.00	-8.39	31.63	3	Vertical	141	1.16	-	13.98	27.60	4.03	-
PK	2.3758G	56.81	74.00	-17.19	31.56	3	Vertical	141	1.16	-	25.25	27.70	3.86	-
PK	2.4394G	95.45	Inf	-Inf	31.56	3	Vertical	141	1.16	-	63.89	27.60	3.96	-
PK	2.487G	56.34	74.00	-17.66	31.63	3	Vertical	141	1.16	-	24.71	27.60	4.03	-

802.11n HT40_Nss1,(MCS0)_1TX

02/09/2020

2437MHz_TX

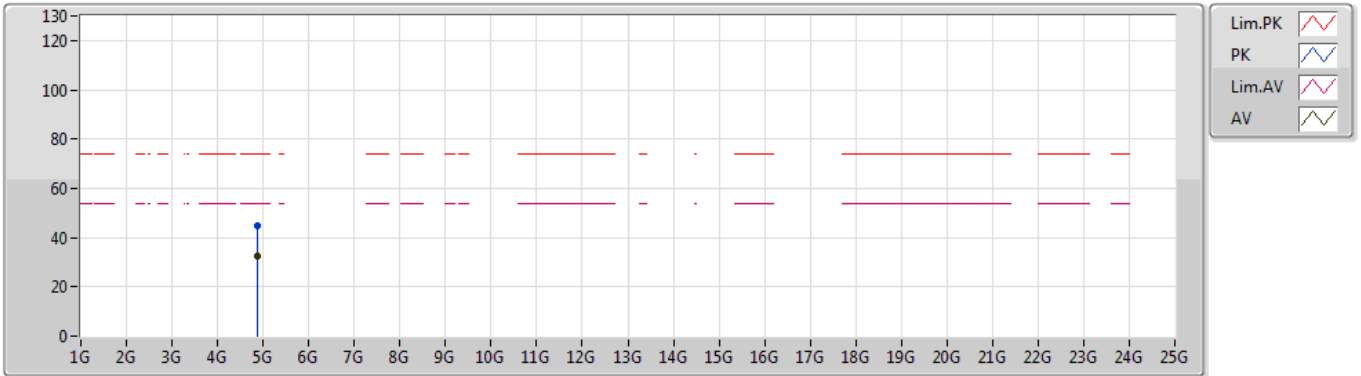


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3418G	44.94	54.00	-9.06	31.63	3	Horizontal	193	1.91	-	13.31	27.82	3.81	-
AV	2.435G	86.30	Inf	-Inf	31.55	3	Horizontal	193	1.91	-	54.75	27.60	3.95	-
AV	2.4835G	45.44	54.00	-8.56	31.63	3	Horizontal	193	1.91	-	13.81	27.60	4.03	-
PK	2.3642G	57.31	74.00	-16.69	31.59	3	Horizontal	193	1.91	-	25.72	27.74	3.85	-
PK	2.4314G	95.05	Inf	-Inf	31.55	3	Horizontal	193	1.91	-	63.50	27.60	3.95	-
PK	2.4926G	56.82	74.00	-17.18	31.64	3	Horizontal	193	1.91	-	25.18	27.60	4.04	-

802.11n HT40_Nss1,(MCS0)_1TX

02/09/2020

2437MHz_TX

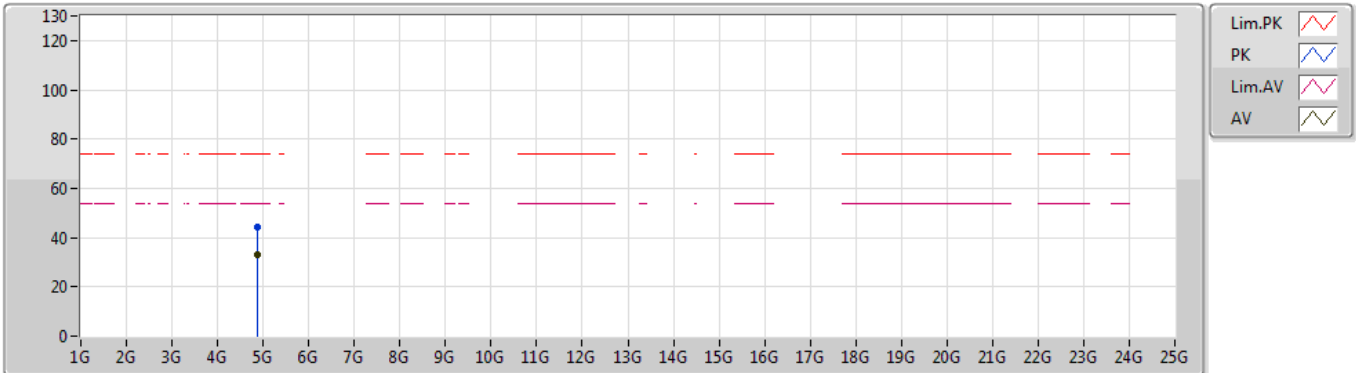


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87387G	32.71	54.00	-21.29	1.66	3	Vertical	45	2.42	-	31.05	31.25	5.34	34.93
PK	4.87354G	44.83	74.00	-29.17	1.66	3	Vertical	45	2.42	-	43.17	31.25	5.34	34.93

802.11n HT40_Nss1,(MCS0)_1TX

02/09/2020

2437MHz_TX

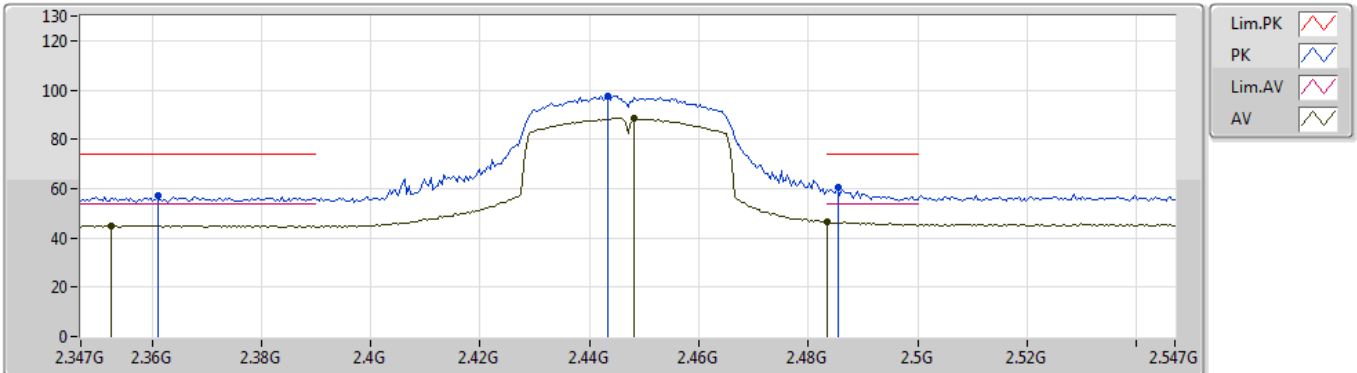


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87403G	32.84	54.00	-21.16	1.66	3	Horizontal	145	2.29	-	31.18	31.25	5.34	34.93
PK	4.87373G	44.47	74.00	-29.53	1.66	3	Horizontal	145	2.29	-	42.81	31.25	5.34	34.93

802.11n HT40_Nss1,(MCS0)_1TX

02/09/2020

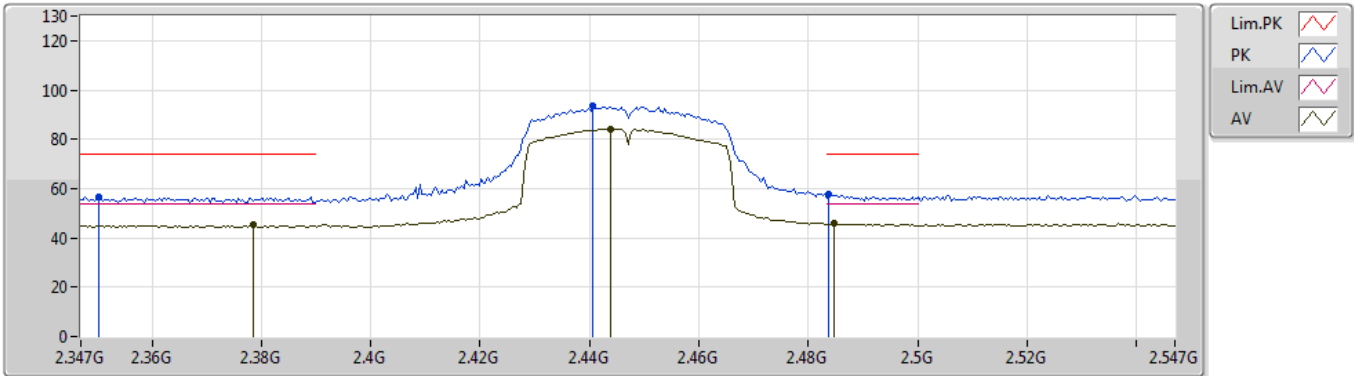
2447MHz_TX



802.11n HT40_Nss1,(MCS0)_1TX

02/09/2020

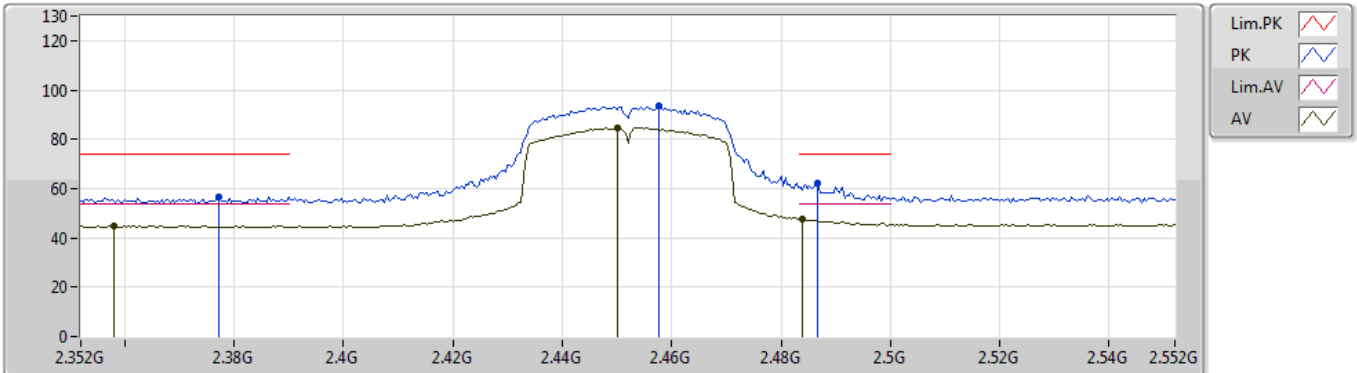
2447MHz_TX



802.11n HT40_Nss1,(MCS0)_1TX

02/09/2020

2452MHz_TX

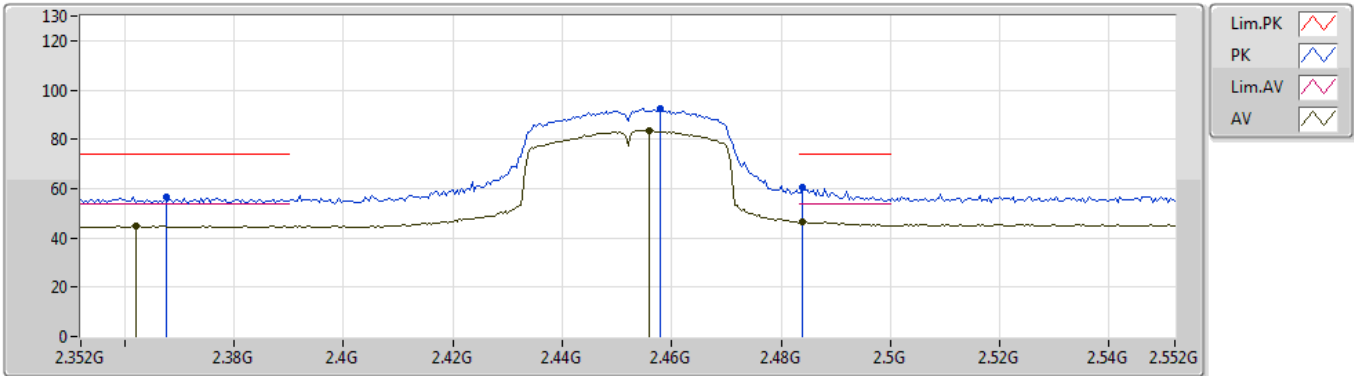


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.358G	45.02	54.00	-8.98	31.61	3	Vertical	142	1.04	-	13.41	27.77	3.84	-
AV	2.45G	84.67	Inf	-Inf	31.58	3	Vertical	142	1.04	-	53.09	27.60	3.98	-
AV	2.484G	47.61	54.00	-6.39	31.63	3	Vertical	142	1.04	-	15.98	27.60	4.03	-
PK	2.3772G	56.60	74.00	-17.40	31.56	3	Vertical	142	1.04	-	25.04	27.69	3.87	-
PK	2.4576G	93.61	Inf	-Inf	31.59	3	Vertical	142	1.04	-	62.02	27.60	3.99	-
PK	2.4868G	62.17	74.00	-11.83	31.63	3	Vertical	142	1.04	-	30.54	27.60	4.03	-

802.11n HT40_Nss1,(MCS0)_1TX

02/09/2020

2452MHz_TX

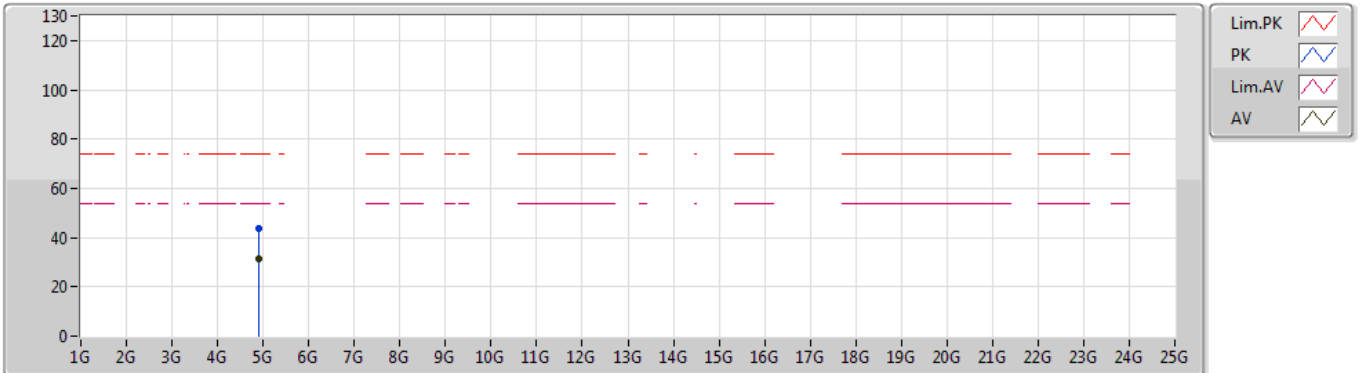


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.362G	45.07	54.00	-8.93	31.59	3	Horizontal	196	1.70	-	13.48	27.75	3.84	-
AV	2.456G	83.65	Inf	-Inf	31.58	3	Horizontal	196	1.70	-	52.07	27.60	3.98	-
AV	2.484G	46.66	54.00	-7.34	31.63	3	Horizontal	196	1.70	-	15.03	27.60	4.03	-
PK	2.3676G	56.40	74.00	-17.60	31.58	3	Horizontal	196	1.70	-	24.82	27.73	3.85	-
PK	2.458G	92.60	Inf	-Inf	31.59	3	Horizontal	196	1.70	-	61.01	27.60	3.99	-
PK	2.484G	60.79	74.00	-13.21	31.63	3	Horizontal	196	1.70	-	29.16	27.60	4.03	-

802.11n HT40_Nss1,(MCS0)_1TX

02/09/2020

2452MHz_TX

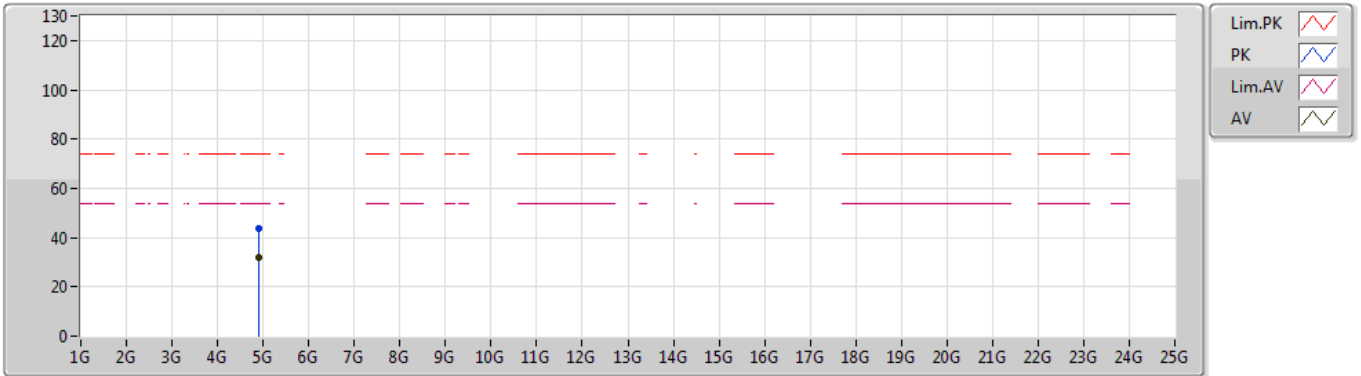


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.90312G	31.50	54.00	-22.50	1.63	3	Vertical	170	2.47	-	29.87	31.21	5.35	34.93
PK	4.90525G	43.50	74.00	-30.50	1.64	3	Vertical	170	2.47	-	41.86	31.22	5.35	34.93

802.11n HT40_Nss1,(MCS0)_1TX

02/09/2020

2452MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.90572G	31.90	54.00	-22.10	1.64	3	Horizontal	213	1.46	-	30.26	31.22	5.35	34.93
PK	4.9016G	43.90	74.00	-30.10	1.63	3	Horizontal	213	1.46	-	42.27	31.21	5.35	34.93