

FCC Test Report

FCC ID : SWX-UDMB
Equipment : UniFi Dream Machine Beacon
Brand Name : UBIQUITI
Model Name : UDM-B
Applicant : Ubiquiti Networks, Inc.
685 Third Avenue, 27th Floor New York,
New York 10017 USA
Manufacturer : Ubiquiti Networks, Inc.
685 Third Avenue, 27th Floor New York,
New York 10017 USA
Standard : 47 CFR FCC Part 15.247

The product was received on Mar. 19, 2019, and testing was started from Mar. 20, 2019 and completed on Mar. 28, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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.....	8
2.4 Support Equipment.....	9
2.5 Test Setup Diagram	10
3 TRANSMITTER TEST RESULT	11
3.1 AC Power-line Conducted Emissions	11
3.2 DTS Bandwidth.....	12
3.3 Maximum Conducted Output Power	13
3.4 Power Spectral Density	15
3.5 Emissions in Non-restricted Frequency Bands	16
3.6 Emissions in Restricted Frequency Bands.....	17
4 TEST EQUIPMENT AND CALIBRATION DATA	20
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 RESULTS OF RADIATED EMISSION CO-LOCATION	
APPENDIX H. TEST PHOTOS	
PHOTOGRAPHS OF EUT V01	



History of this test report

Report No.	Version	Description	Issued Date
FR870420-10AC	01	Initial issue of report	Apr. 17, 2019

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	FCC 15.203
3.1	15.207	AC Power-line Conducted Emissions	PASS	FCC 15.207
3.2	15.247(a)	DTS Bandwidth	PASS	≥500kHz
3.3	15.247(b)	Maximum Conducted Output Power	PASS	Power [dBm]: 30
3.4	15.247(e)	Power Spectral Density	PASS	PSD [dBm/3kHz]: 8
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	Non-Restricted Bands: > 30 dBc
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	Restricted Bands: FCC 15.209

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: Jackson Tsai

Report Producer: Ann Hou

1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX

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	-	-	internal antenna	I-PEX
2	-	-	internal antenna	I-PEX
3	-	-	internal antenna	I-PEX
4	-	-	internal antenna	I-PEX
5	-	-	internal antenna	I-PEX

Ant.	2.4G		5G		BT	
	Port	Gain (dBi)	Port	Gain (dBi)	Port	Gain (dBi)
1	1	4.5	4	5	-	-
2	2	4.5	3	5	-	-
3	-	-	2	5	-	-
4	-	-	1	5	-	-
5	-	-	-	-	1	1

Note 1: The EUT has five antennas.

For 2.4GHz function:

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

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

For 5GHz function:

For IEEE 802.11 a/n/ac mode (4TX/4RX)

Ant. 1 (port 4), Ant. 2 (port 3), Ant. 3 (port 2) and Ant. 4 (port 1) could transmit/receive simultaneously.

For BT function:

For Bluetooth mode (1TX/1RX)

Ant. 5 (port 1) could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC mains			
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	0.989	0.05	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	0.902	0.45	1.397m	1k
802.11n HT20	0.872	0.59	1.182m	1k
802.11n HT40	0.78	1.08	588.75u	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
- ♦ KDB 558074 D01 v05r02
- ♦ KDB 662911 D01 v02r01

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.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Lego	22.8~24.1°C / 64.1~67.6%	22/Mar/2019~ 28/Mar/2019
RF Conducted	TH01-HY	Barry	20.8~22.9°C / 51.8~61.9%	20/Mar/2019~ 26/Mar/2019
Radiated	03CH03-HY	Justin	19.2~23.4°C / 51.2~56.7%	21/Mar/2019~ 28/Mar/2019

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)	3.54 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	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	DoS
---------------	-----

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal link
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: Appendix G for Radiated Emission Co-location	
Operating Mode	CTX
2	Bluetooth+WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA870420-10 for Co-location RF Exposure Evaluation.	

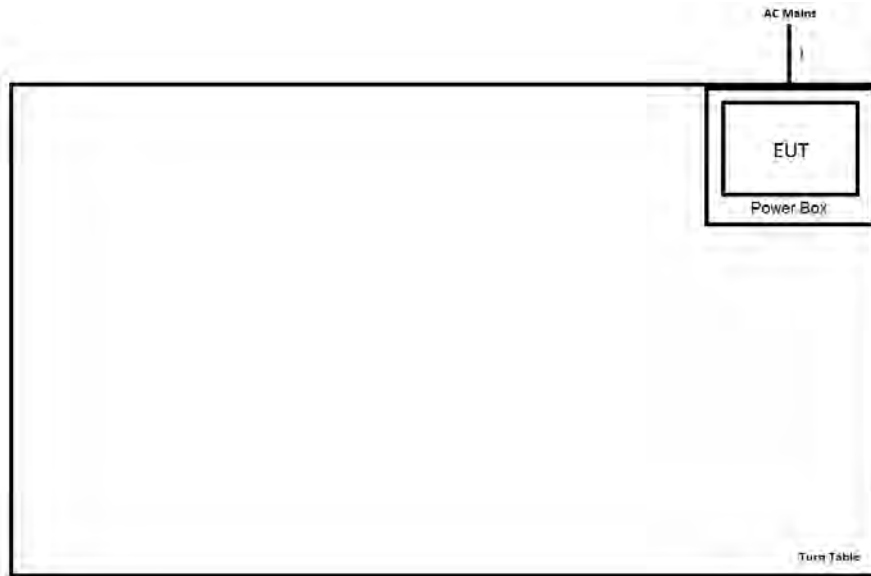
2.4 Support Equipment

Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for Notebook	DELL	HA65NM130	DoC
3	Fixture	-	-	-

Note: Support equipment No.3 was provided by customer.

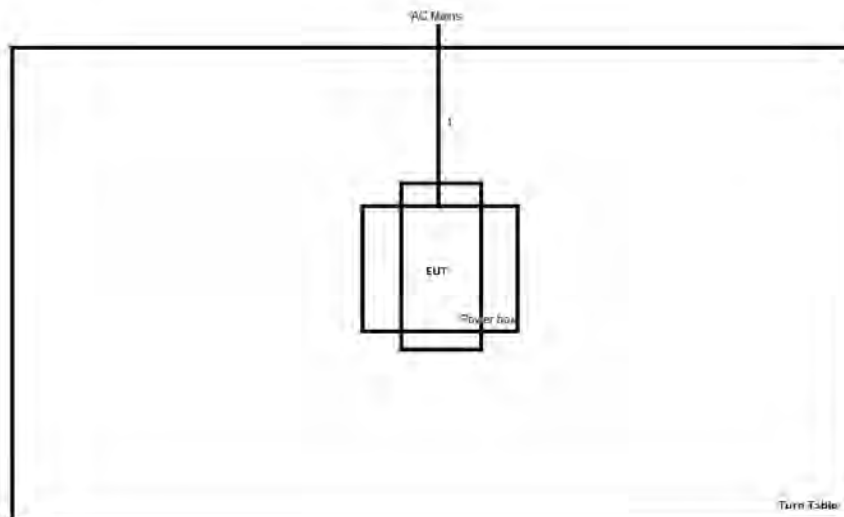
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length
1	AC Power line	No	1.5 m

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length
1	AC Power line	No	1.8m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

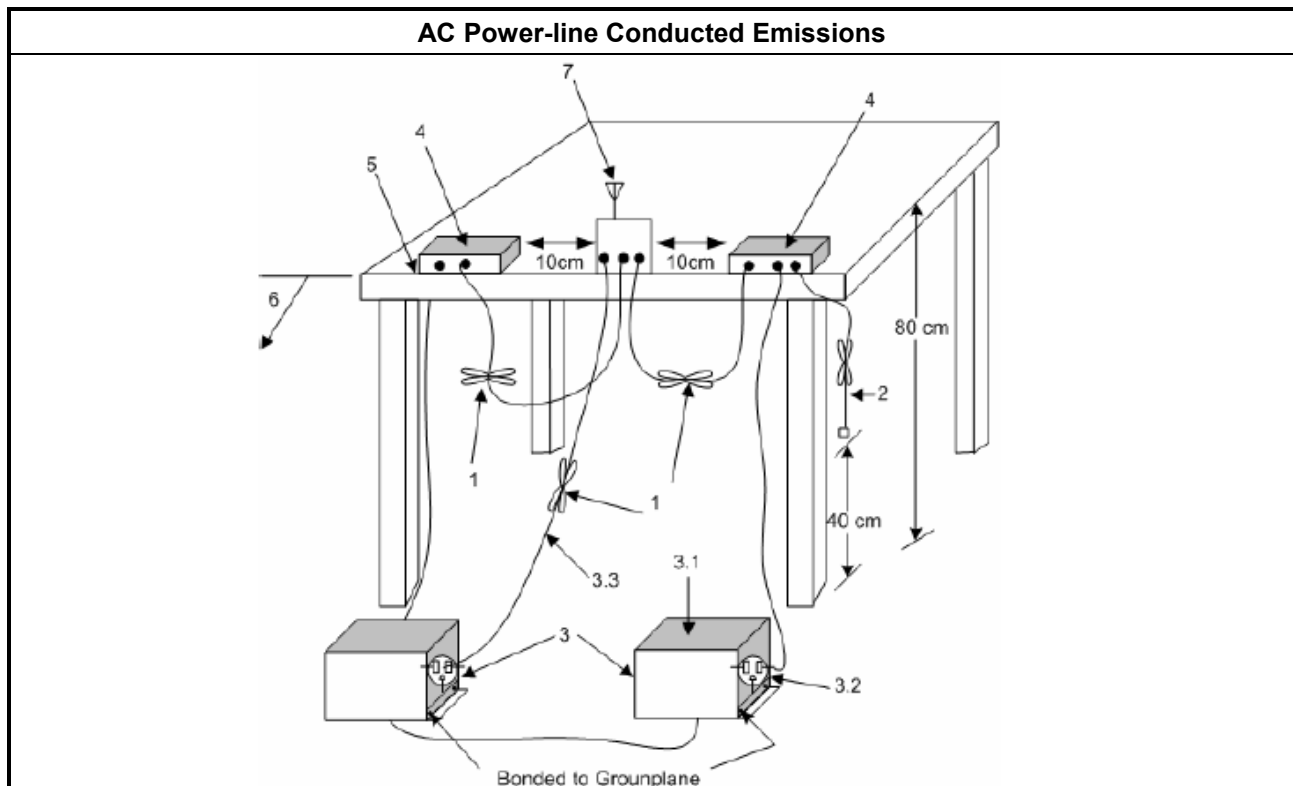
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

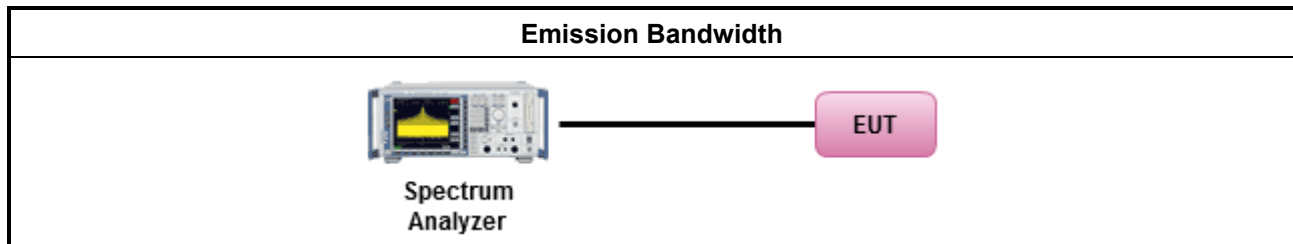
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

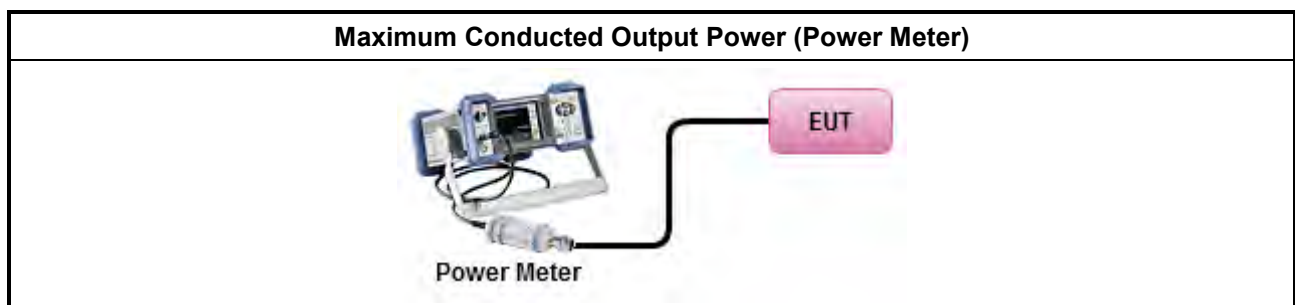
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

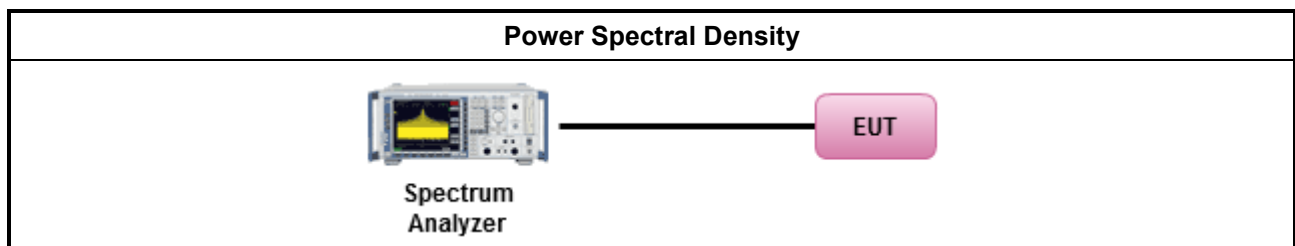
3.4.2 Measuring Instruments

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) Method PKPSD.
▪	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 PSD 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 PSD level.	

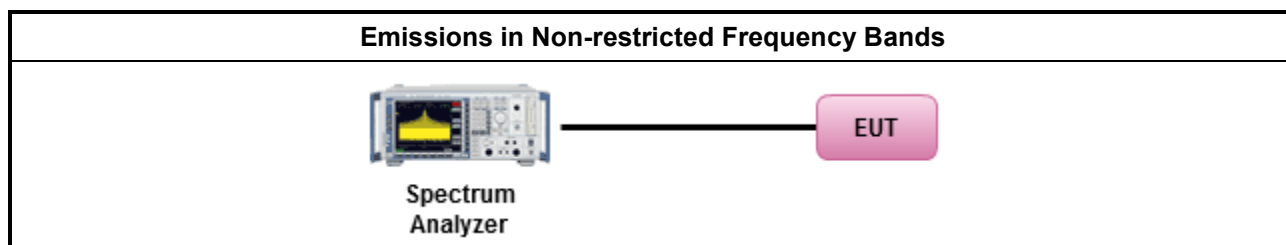
3.5.2 Measuring Instruments

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.

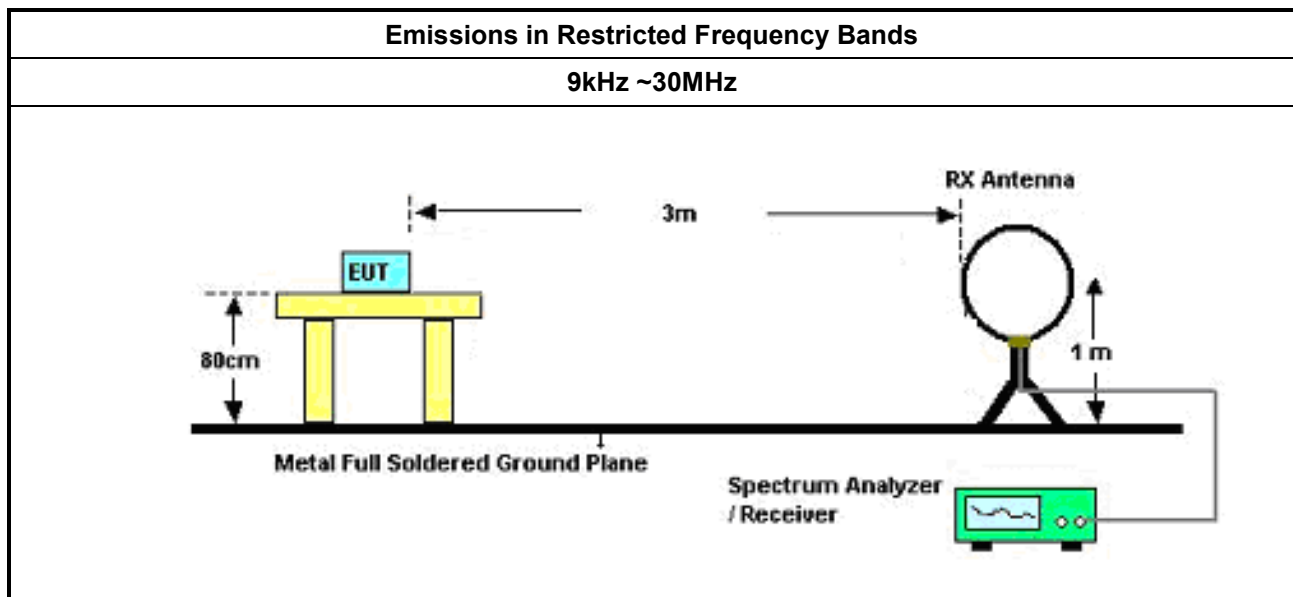
3.6.2 Measuring Instruments

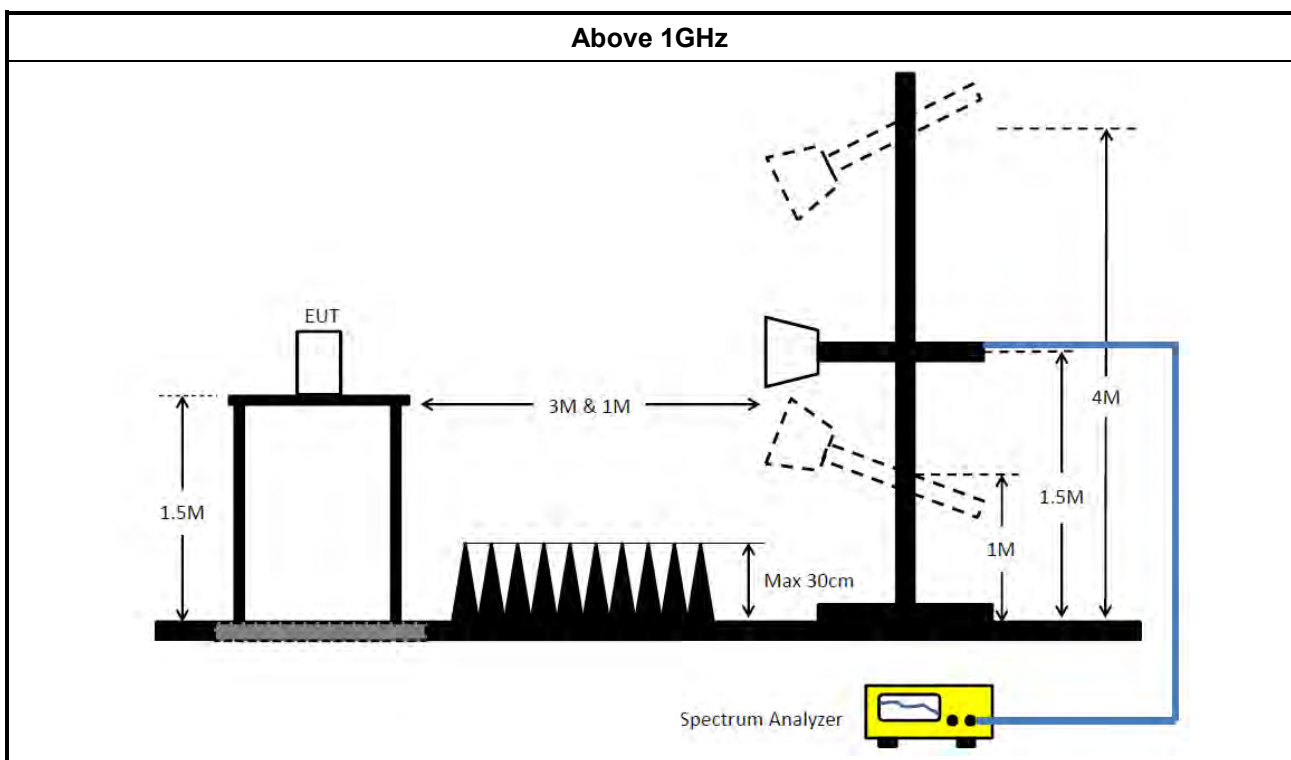
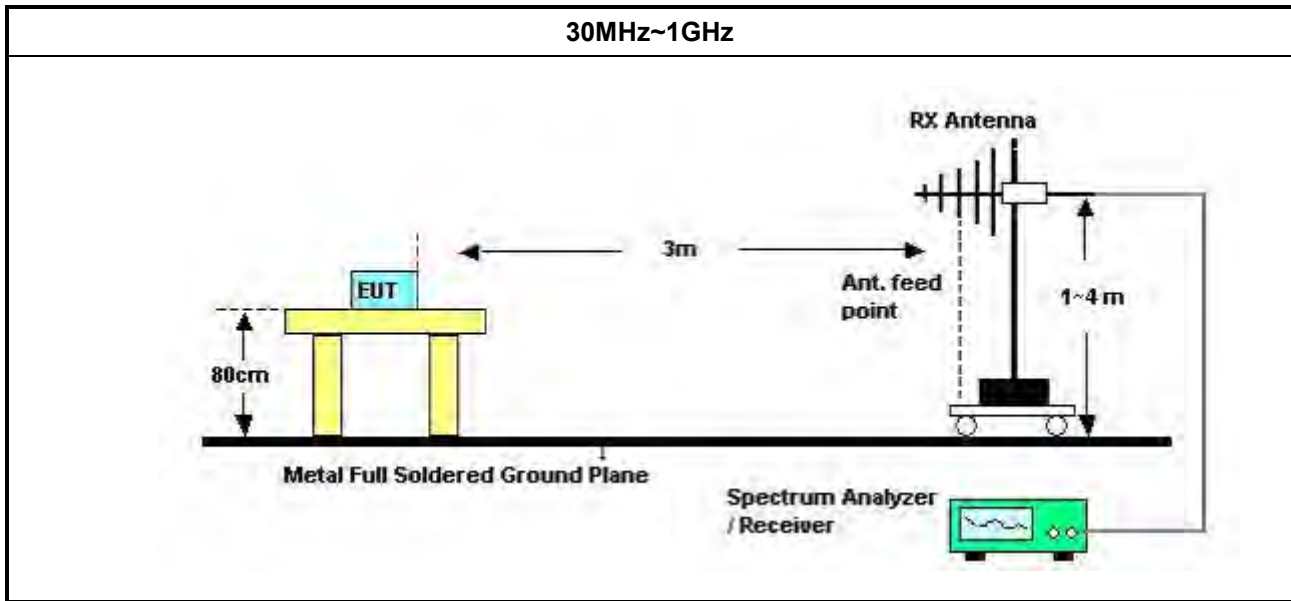
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
The average emission levels shall be measured in [duty cycle ≥ 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 (i.e., 1 MHz).
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.

3.6.4 Test Setup





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

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

3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR	102051	9KHz ~ 3.6GHz	03/May/2018	02/May/2019
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	08/Nov/2018	07/Nov/2019
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	17/Sep/2018	16/Sep/2019
AC POWER	APC	AFC-11005G	F310050055	47Hz ~ 63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2018	11/Oct/2019

NCR : Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz ~ 40GHz	13/Mar/2019	12/Mar/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz ~ 40GHz	12/Nov/2018	10/Nov/2020
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	19/Feb/2019	18/Feb/2020
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	19/Feb/2019	18/Feb/2020
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz ~ 18G	11/Jan/2019	10/Jan/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~ 18G	11/Jan/2019	10/Jan/2020
Cable 0.5m	HUBER	MY10714/4	RF Cable - 05	30MHz ~ 1G	11/Jan/2019	10/Jan/2020
Cable 0.5m	HUBER	MY10714/4	RF Cable - 05	1G ~ 18G	11/Jan/2019	10/Jan/2020

Instrument for Radiated Test

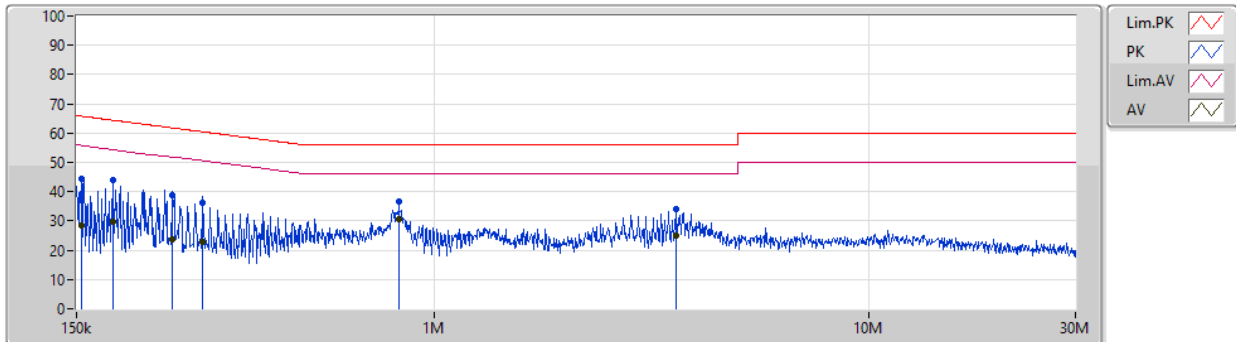
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	30/Oct/2018	29/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz 3m	30/Oct/2018	29/Oct/2019
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	10/Apr/2018	09/Apr/2019
Bilog Antenna with 5dB Pad	ETS	3142B & MTJ6102-05	00022055	26 MHz - 3 GHz	19/Nov/2018	18/Nov/2019
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz ~ 26.5GHz	05/Sep/2018	04/Sep/2019
Signal Analyzer	R&S	FSV40	101500	10Hz ~ 40GHz	18/Jul/2018	17/Jul/2019
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	29/Jan/2018	28/Jan/2019
RF Cable-high	SUHNER	SUCOFLEX 106	MY34918/4	1GHz ~ 40GHz	21/Mar/2019	20/Mar/2020
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	19/Jan/2018	18/Jan/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	06/Feb/2018	05/Feb/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz ~ 18GHz	09/Mar/2019	08/Mar/2020
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	AC mains mode		

AC Conduction

22/03/2019



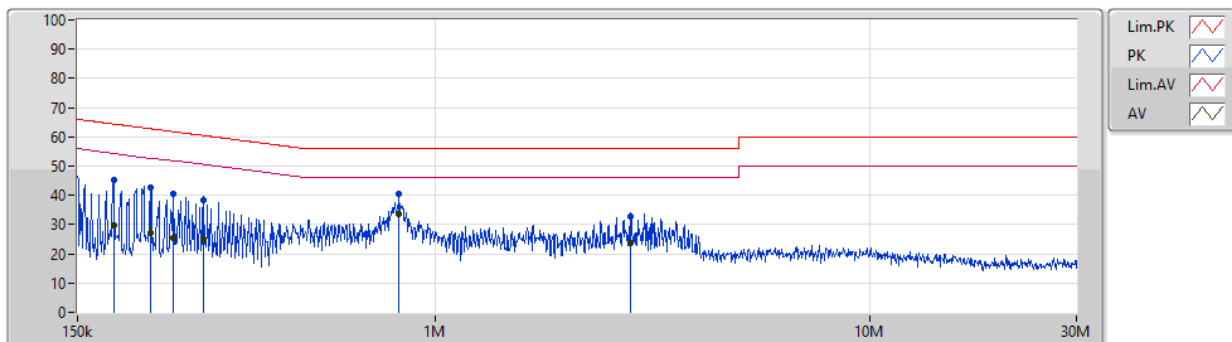
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.636k	44.44	65.81	-21.37	19.48	Neutral	-	24.96	9.60	0.01	9.87			
AV	153.636k	28.63	55.81	-27.18	19.48	Neutral	-	9.15	9.60	0.01	9.87			
QP	182.408k	43.84	64.37	-20.53	19.47	Neutral	-	24.37	9.59	0.01	9.87			
AV	182.408k	29.61	54.37	-24.76	19.47	Neutral	-	10.14	9.59	0.01	9.87			
QP	250.038k	38.80	61.76	-22.96	19.47	Neutral	-	19.33	9.59	0.01	9.87			
AV	250.038k	23.84	51.76	-27.92	19.47	Neutral	-	4.37	9.59	0.01	9.87			
QP	293.329k	36.17	60.44	-24.27	19.48	Neutral	-	16.69	9.59	0.01	9.88			
AV	293.329k	22.97	50.44	-27.47	19.48	Neutral	-	3.49	9.59	0.01	9.88			
QP	828.172k	36.70	56.00	-19.30	19.49	Neutral	-	17.21	9.59	0.02	9.88			
AV	828.172k	30.47	46.00	-15.53	19.49	Neutral	"Worst"	10.98	9.59	0.02	9.88			
QP	3.613M	34.00	56.00	-22.00	19.54	Neutral	-	14.46	9.61	0.04	9.89			
AV	3.613M	25.18	46.00	-20.82	19.54	Neutral	-	5.64	9.61	0.04	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	AC mains mode		

AC Conduction

22/03/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	181.681k	45.34	64.41	-19.07	19.48	Line	-	25.86	9.60	0.01	9.87			
AV	181.681k	29.73	54.41	-24.68	19.48	Line	-	10.25	9.60	0.01	9.87			
QP	220.933k	42.59	62.79	-20.20	19.48	Line	-	23.11	9.60	0.01	9.87			
AV	220.933k	27.25	52.79	-25.54	19.48	Line	-	7.77	9.60	0.01	9.87			
QP	250.038k	40.33	61.76	-21.43	19.48	Line	-	20.85	9.60	0.01	9.87			
AV	250.038k	25.63	51.76	-26.13	19.48	Line	-	6.15	9.60	0.01	9.87			
QP	292.16k	38.51	60.46	-21.95	19.48	Line	-	19.03	9.59	0.01	9.88			
AV	292.16k	25.19	50.46	-25.27	19.48	Line	-	5.71	9.59	0.01	9.88			
QP	821.586k	40.31	56.00	-15.69	19.50	Line	-	20.81	9.60	0.02	9.88			
AV	821.586k	33.69	46.00	-12.31	19.50	Line	"Worst"	14.19	9.60	0.02	9.88			
QP	2.81M	32.93	56.00	-23.07	19.55	Line	-	13.38	9.62	0.04	9.89			
AV	2.81M	23.81	46.00	-22.19	19.55	Line	-	4.26	9.62	0.04	9.89			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	10.025M	14.868M	14M9G1D	9.55M	14.243M
802.11g_Nss1,(6Mbps)_2TX	15.075M	16.667M	16M7D1D	15.025M	16.317M
802.11n HT20_Nss1,(MCS0)_2TX	15.375M	17.791M	17M8D1D	13.15M	17.516M
802.11n HT40_Nss1,(MCS0)_2TX	35.1M	36.082M	36M1D1D	31.3M	35.832M

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

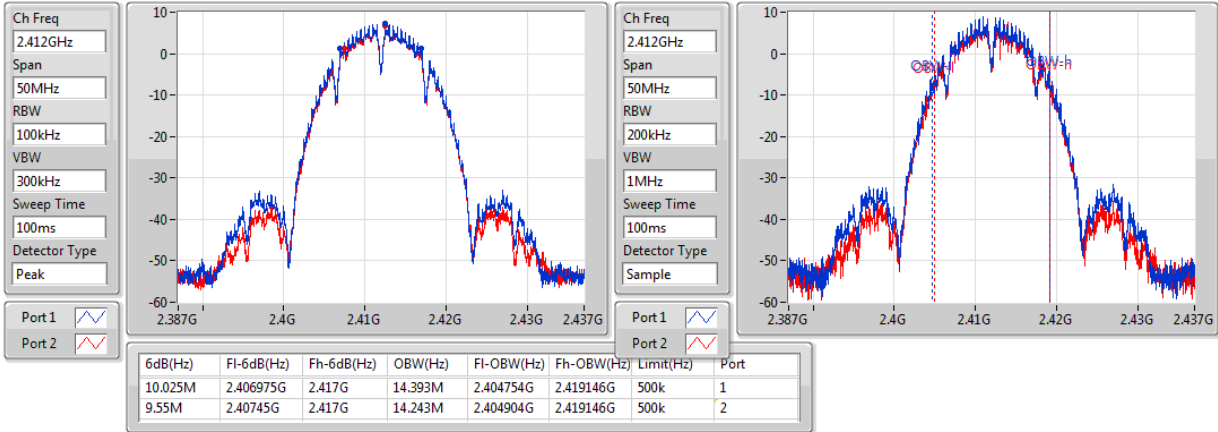
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	10.025M	14.393M	9.55M	14.243M
2437MHz	Pass	500k	10.025M	14.318M	10.025M	14.343M
2462MHz	Pass	500k	10.025M	14.868M	10.025M	14.468M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.05M	16.317M	15.05M	16.342M
2437MHz	Pass	500k	15.05M	16.667M	15.025M	16.492M
2462MHz	Pass	500k	15.075M	16.367M	15.025M	16.367M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15M	17.516M	15.025M	17.591M
2437MHz	Pass	500k	13.15M	17.791M	15.375M	17.666M
2462MHz	Pass	500k	15.025M	17.516M	15.05M	17.591M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.05M	35.832M	33.75M	35.882M
2437MHz	Pass	500k	35.1M	36.032M	35M	36.082M
2452MHz	Pass	500k	32.45M	35.932M	31.3M	35.882M

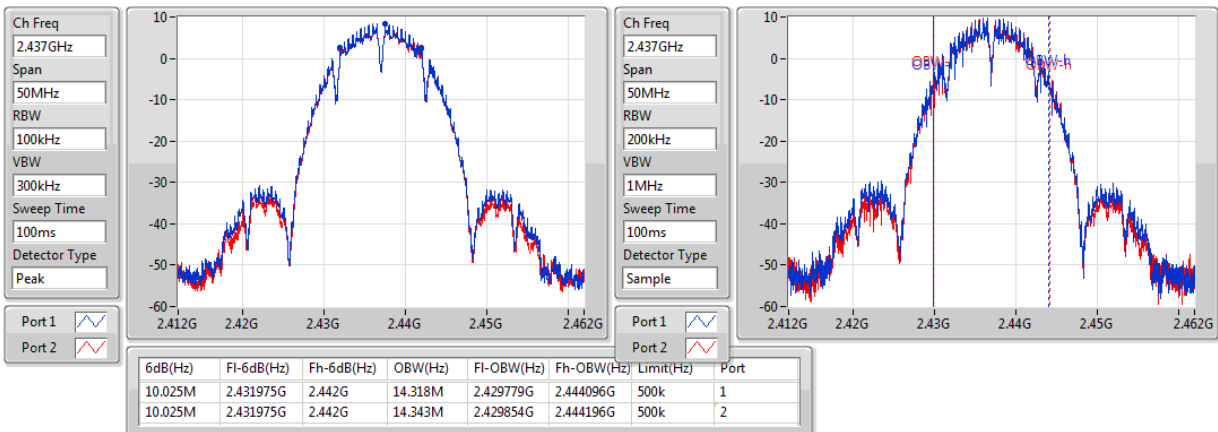
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

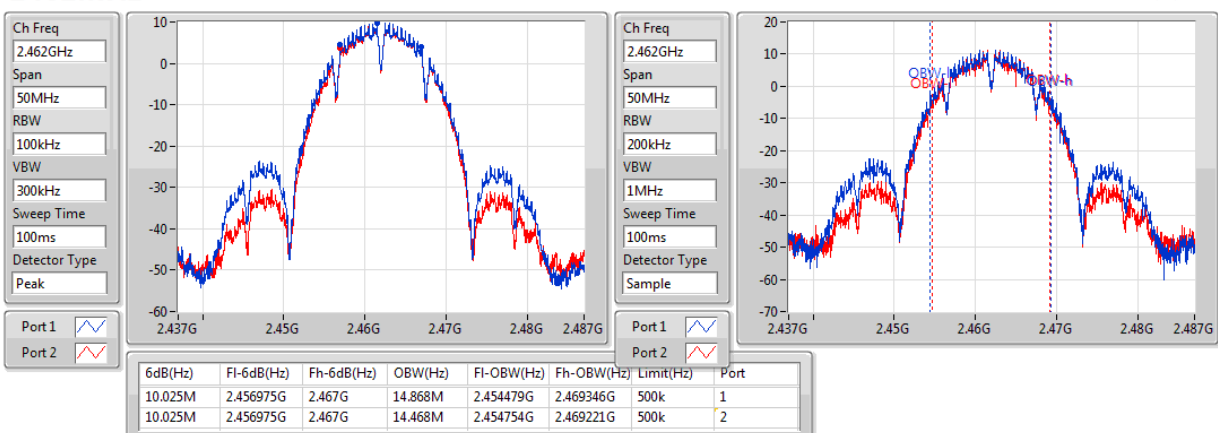
07/11/2017


802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

07/11/2017

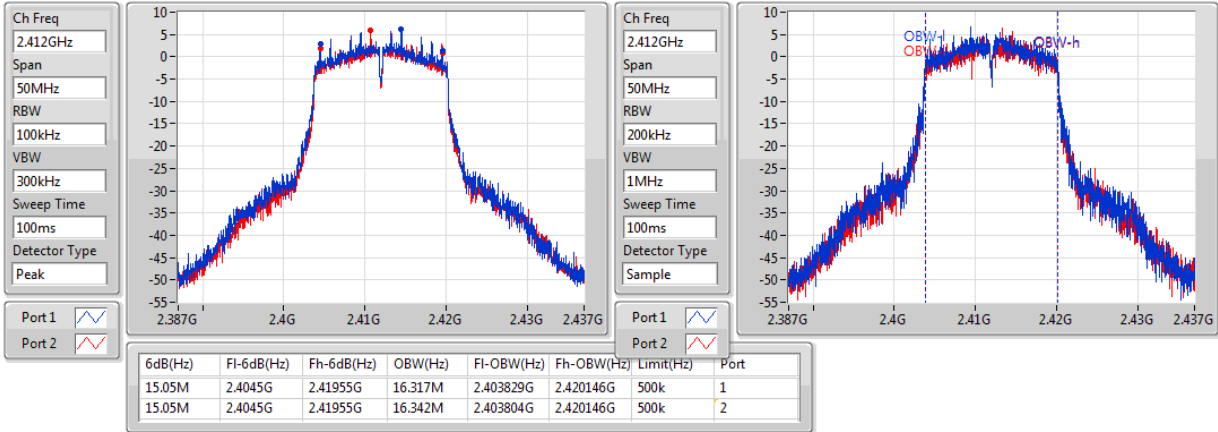

802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

22/11/2017

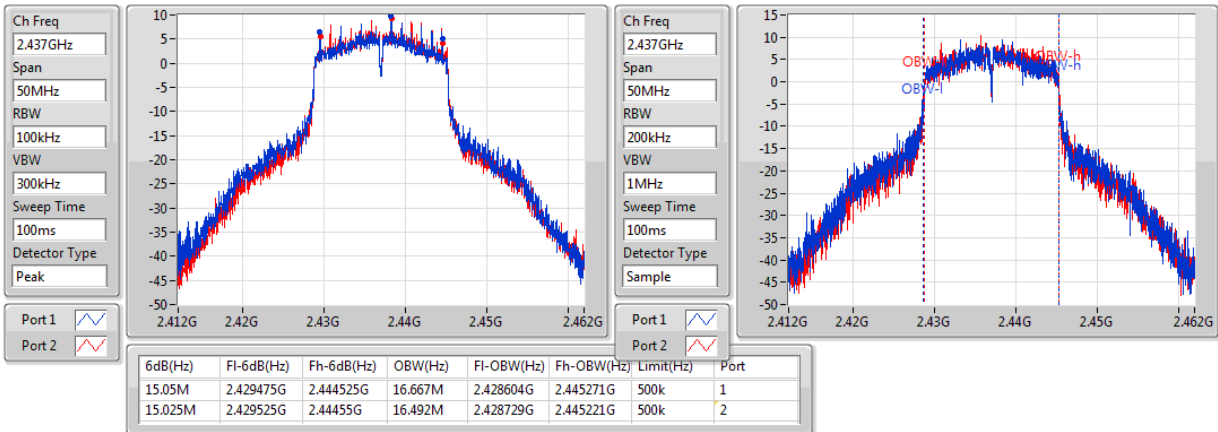


802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

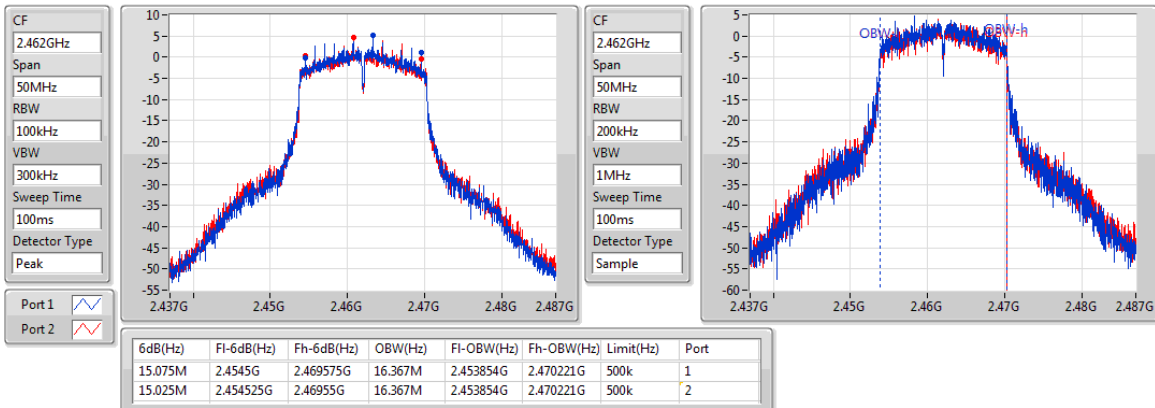
07/11/2017


802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

22/11/2017

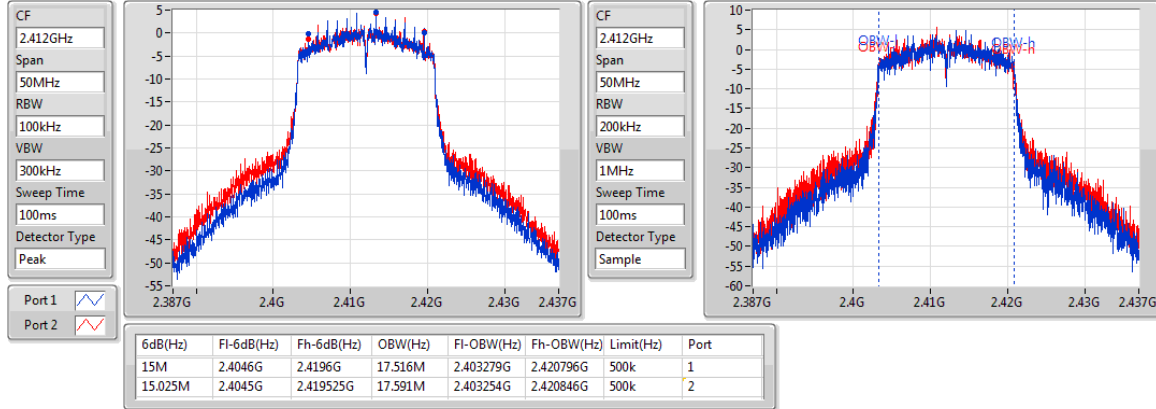

802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

25/03/2019

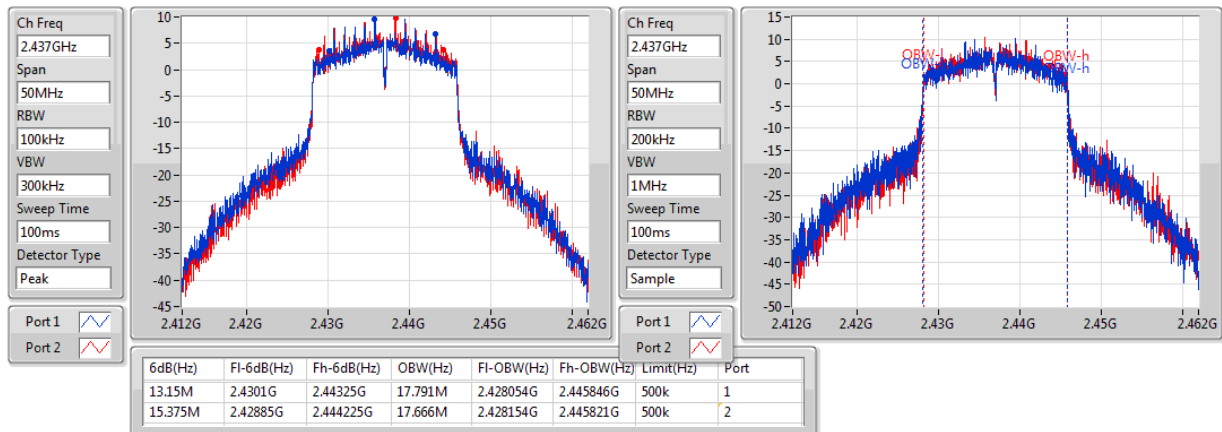


802.11n HT20_Nss1,(MCS0)_2TX
EBW
2412MHz

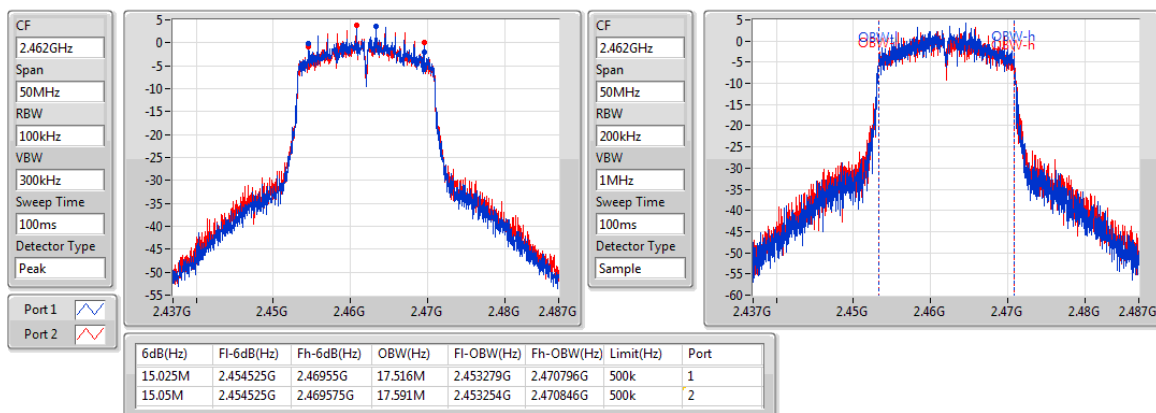
25/03/2019


802.11n HT20_Nss1,(MCS0)_2TX
EBW
2437MHz

22/11/2017


802.11n HT20_Nss1,(MCS0)_2TX
EBW
2462MHz

25/03/2019

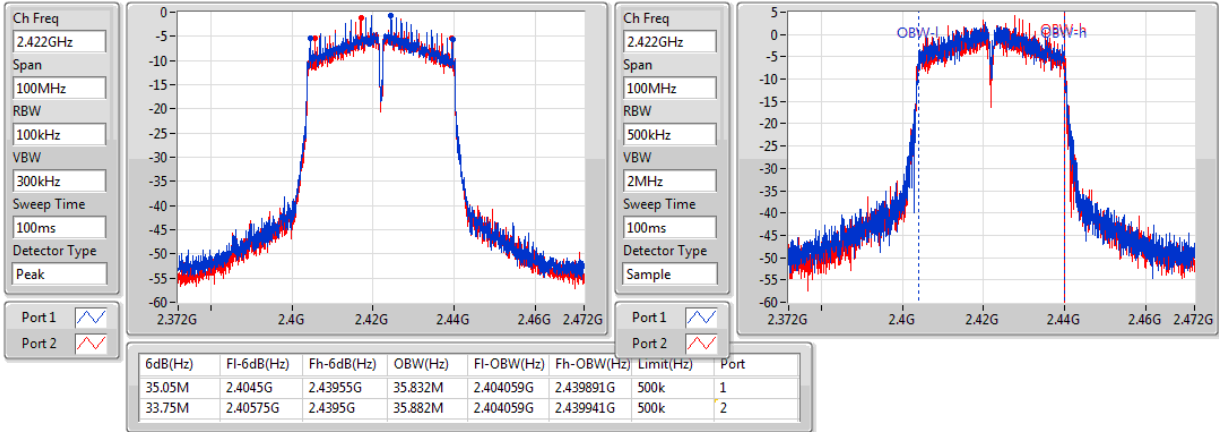


802.11n HT40_Nss1,(MCS0)_2TX

EBW

2422MHz

07/11/2017

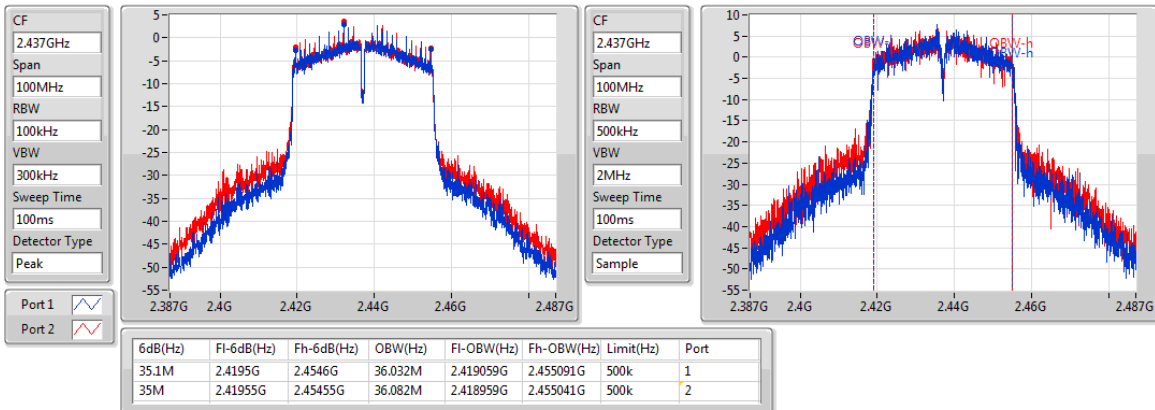


802.11n HT40_Nss1,(MCS0)_2TX

EBW

2437MHz

25/03/2019

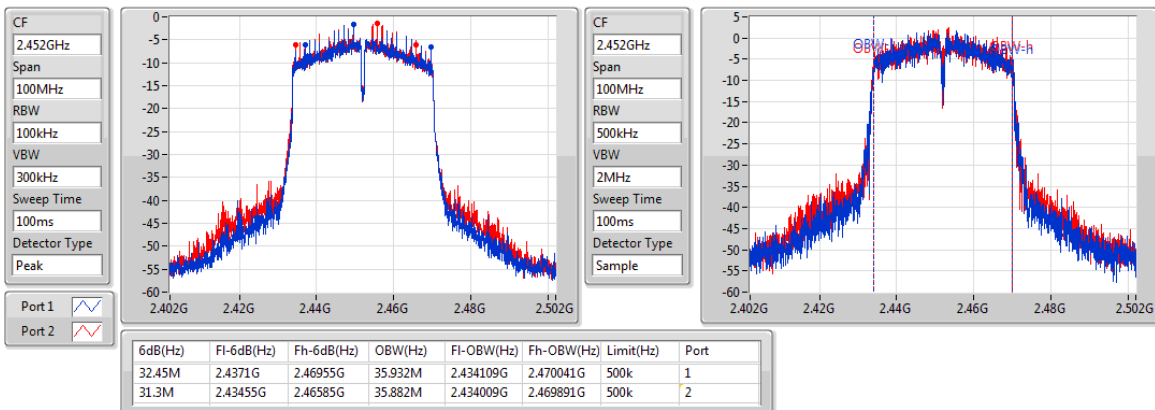


802.11n HT40_Nss1,(MCS0)_2TX

EBW

2452MHz

25/03/2019





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	22.68	0.18535
802.11g_Nss1,(6Mbps)_2TX	22.68	0.18535
802.11n HT20_Nss1,(MCS0)_2TX	22.90	0.19498
802.11n HT40_Nss1,(MCS0)_2TX	19.21	0.08337

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.50	16.84	16.77	19.82	30.00
2417MHz	Pass	4.50	18.20	18.12	21.17	30.00
2437MHz	Pass	4.50	18.29	18.14	21.23	30.00
2462MHz	Pass	4.50	19.69	19.65	22.68	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.50	16.07	16.07	19.08	30.00
2417MHz	Pass	4.50	19.59	19.55	22.58	30.00
2437MHz	Pass	4.50	19.69	19.64	22.68	30.00
2457MHz	Pass	4.50	17.49	17.50	20.51	30.00
2462MHz	Pass	4.50	17.15	16.73	19.96	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.50	14.96	15.12	18.05	30.00
2417MHz	Pass	4.50	18.75	18.83	21.80	30.00
2437MHz	Pass	4.50	19.69	20.09	22.90	30.00
2457MHz	Pass	4.50	16.84	16.99	19.93	30.00
2462MHz	Pass	4.50	14.45	14.24	17.36	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.50	11.49	11.53	14.52	30.00
2427MHz	Pass	4.50	13.01	13.33	16.18	30.00
2437MHz	Pass	4.50	16.05	16.34	19.21	30.00
2447MHz	Pass	4.50	13.04	13.26	16.16	30.00
2452MHz	Pass	4.50	11.48	11.69	14.60	30.00

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

Note : Conducted average output power is for reference only

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-5.16
802.11g_Nss1,(6Mbps)_2TX	-5.12
802.11n HT20_Nss1,(MCS0)_2TX	-2.69
802.11n HT40_Nss1,(MCS0)_2TX	-11.88

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.51	-8.10	-8.63	-5.63	6.49
2437MHz	Pass	7.51	-7.91	-7.31	-6.04	6.49
2462MHz	Pass	7.51	-7.22	-6.42	-5.16	6.49
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.51	-10.83	-11.97	-8.84	6.49
2437MHz	Pass	7.51	-7.05	-7.00	-5.12	6.49
2462MHz	Pass	7.51	-12.36	-12.06	-10.12	6.49
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.51	-12.48	-12.71	-10.68	6.49
2437MHz	Pass	7.51	-6.95	-3.27	-2.69	6.49
2462MHz	Pass	7.51	-13.09	-13.18	-11.90	6.49
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	7.51	-17.62	-17.09	-15.15	6.49
2437MHz	Pass	7.51	-14.26	-13.89	-11.88	6.49
2452MHz	Pass	7.51	-18.95	-18.40	-15.66	6.49

DG = Directional Gain; RBW=3kHz;

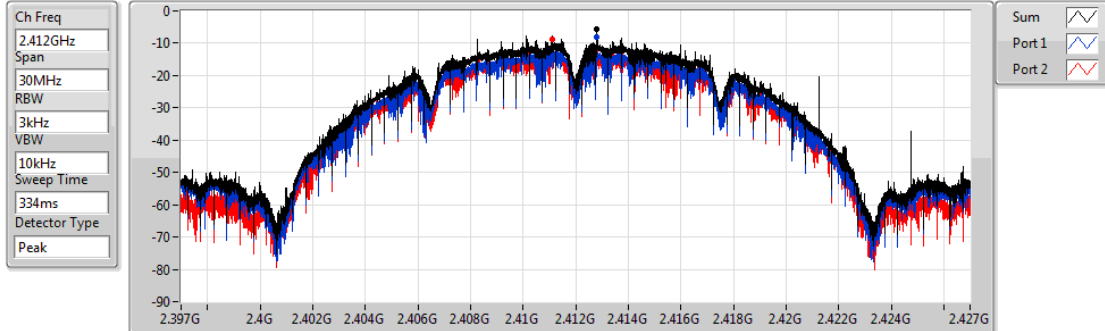
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

07/11/2017



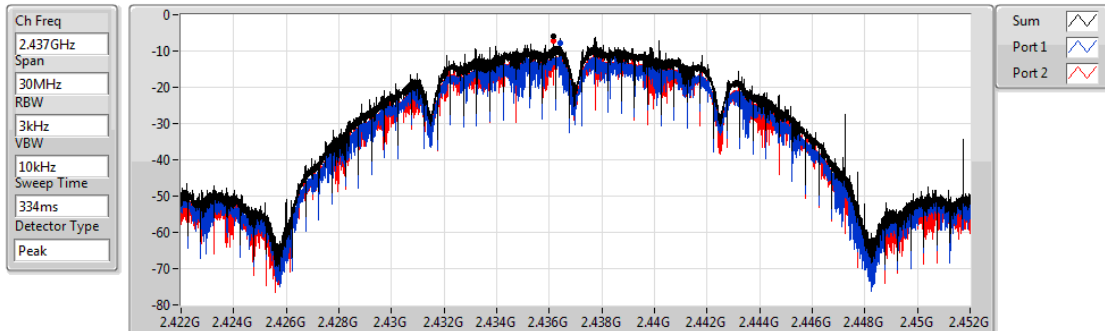
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-5.63	-5.63	-8.10	-8.63

802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

07/11/2017



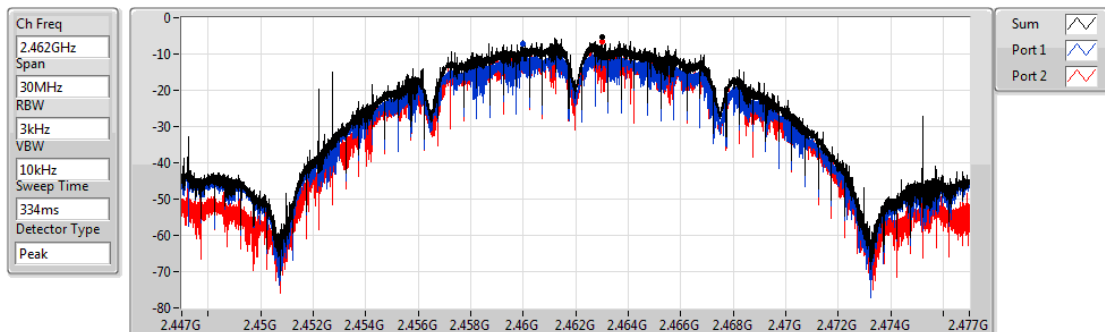
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-6.04	-6.04	-7.91	-7.31

802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

22/11/2017



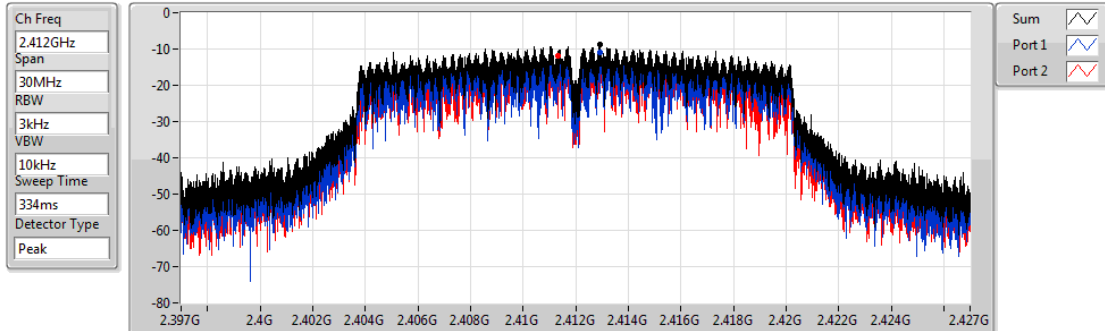
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-5.16	-5.16	-7.22	-6.42

802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

07/11/2017



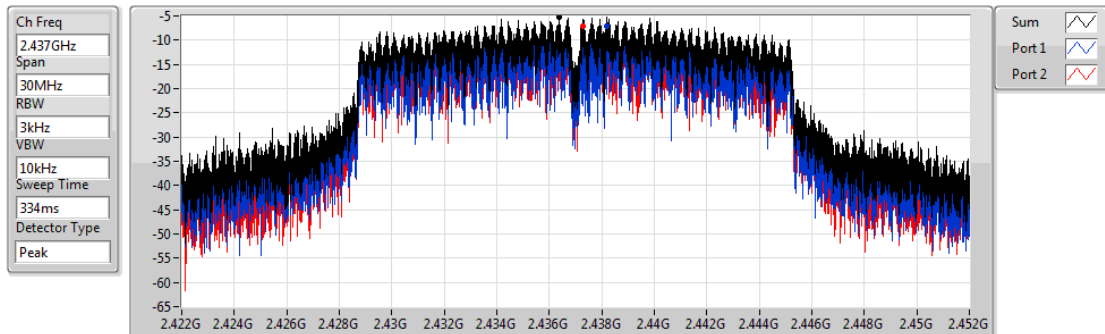
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.84	-8.84	-10.83	-11.97

802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

22/11/2017



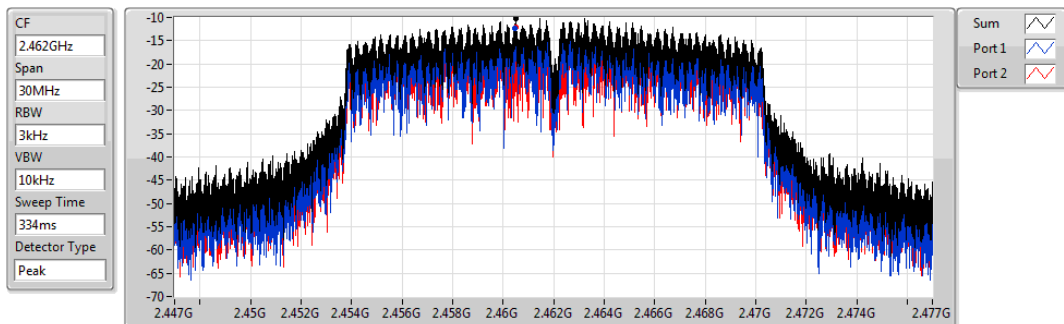
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.12	-5.12	-7.05	-7.00

802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

25/03/2019



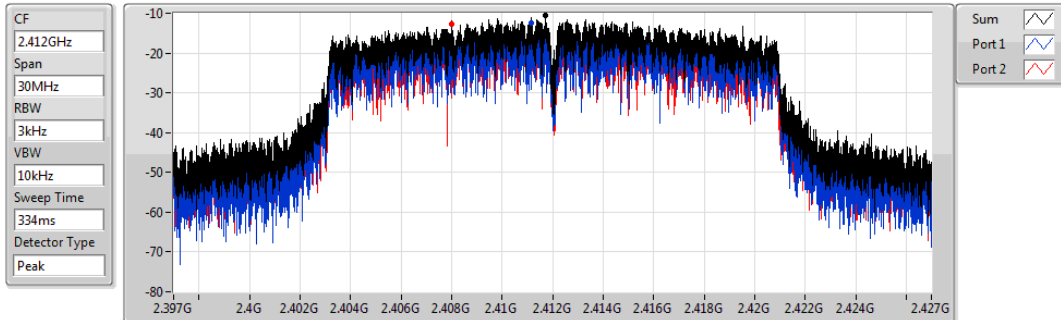
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.12	-10.12	-12.36	-12.06

802.11n HT20_Nss1,(MCS0)_2TX

PSD

2412MHz

25/03/2019



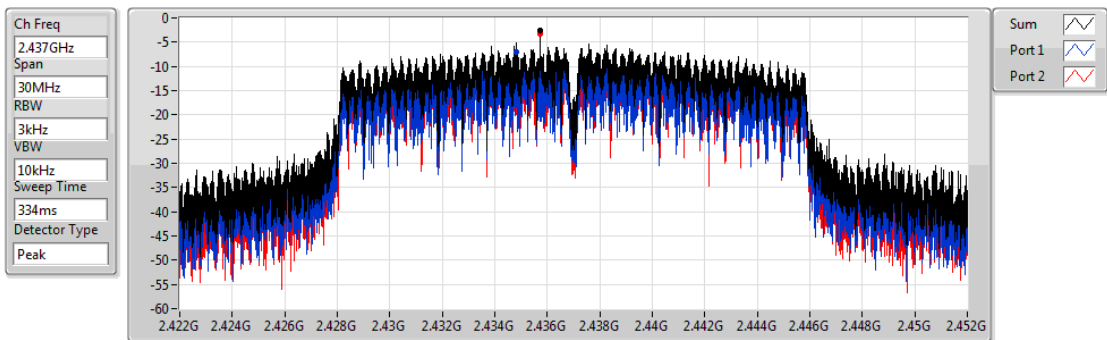
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.68	-10.68	-12.48	-12.71

802.11n HT20_Nss1,(MCS0)_2TX

PSD

2437MHz

22/11/2017



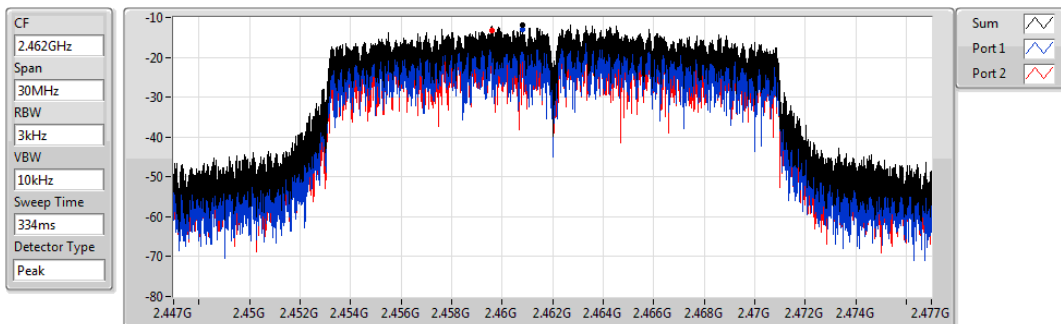
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.69	-2.69	-6.95	-3.27

802.11n HT20_Nss1,(MCS0)_2TX

PSD

2462MHz

25/03/2019



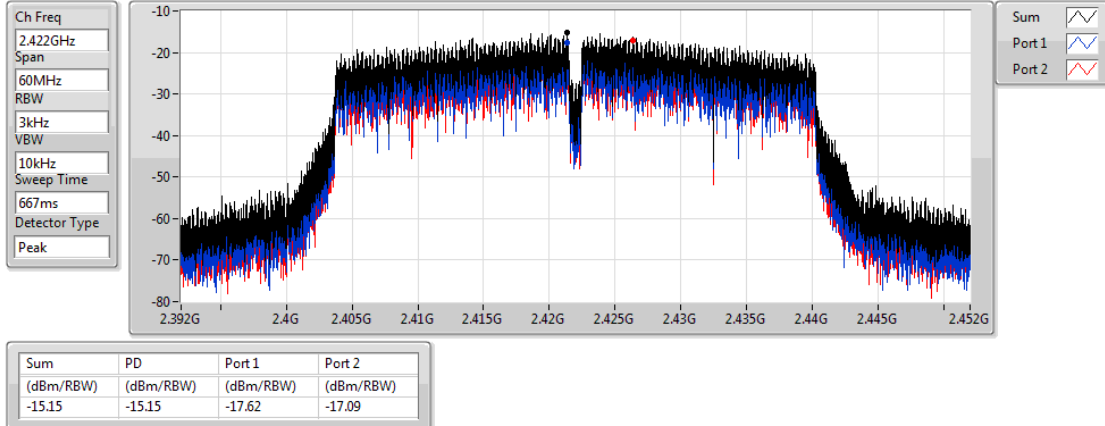
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.90	-11.90	-13.09	-13.18

802.11n HT40_Nss1,(MCS0)_2TX

PSD

2422MHz

07/11/2017

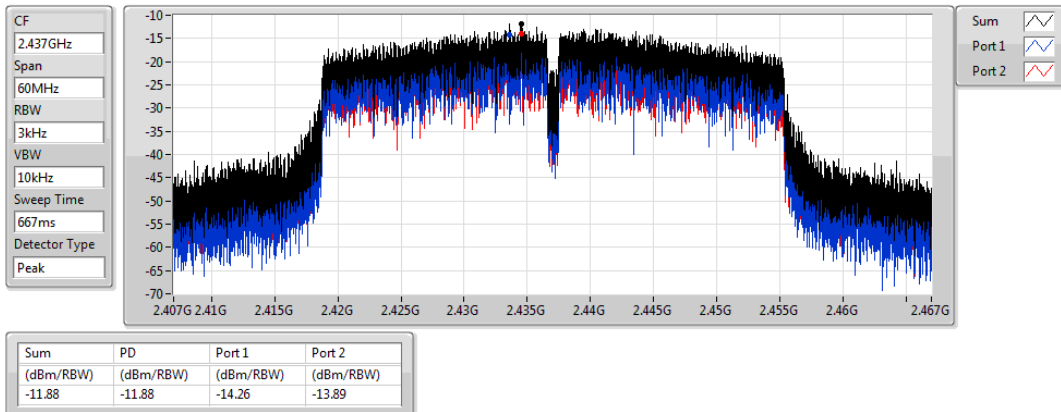


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2437MHz

25/03/2019

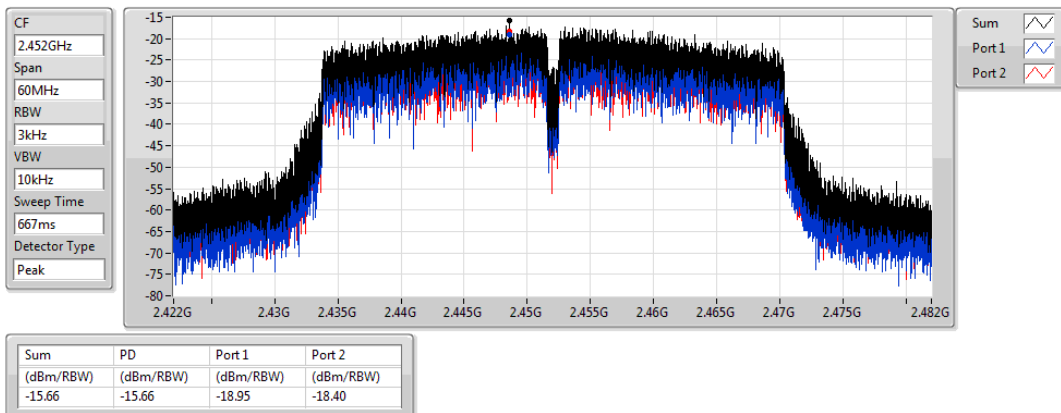


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2452MHz

25/03/2019

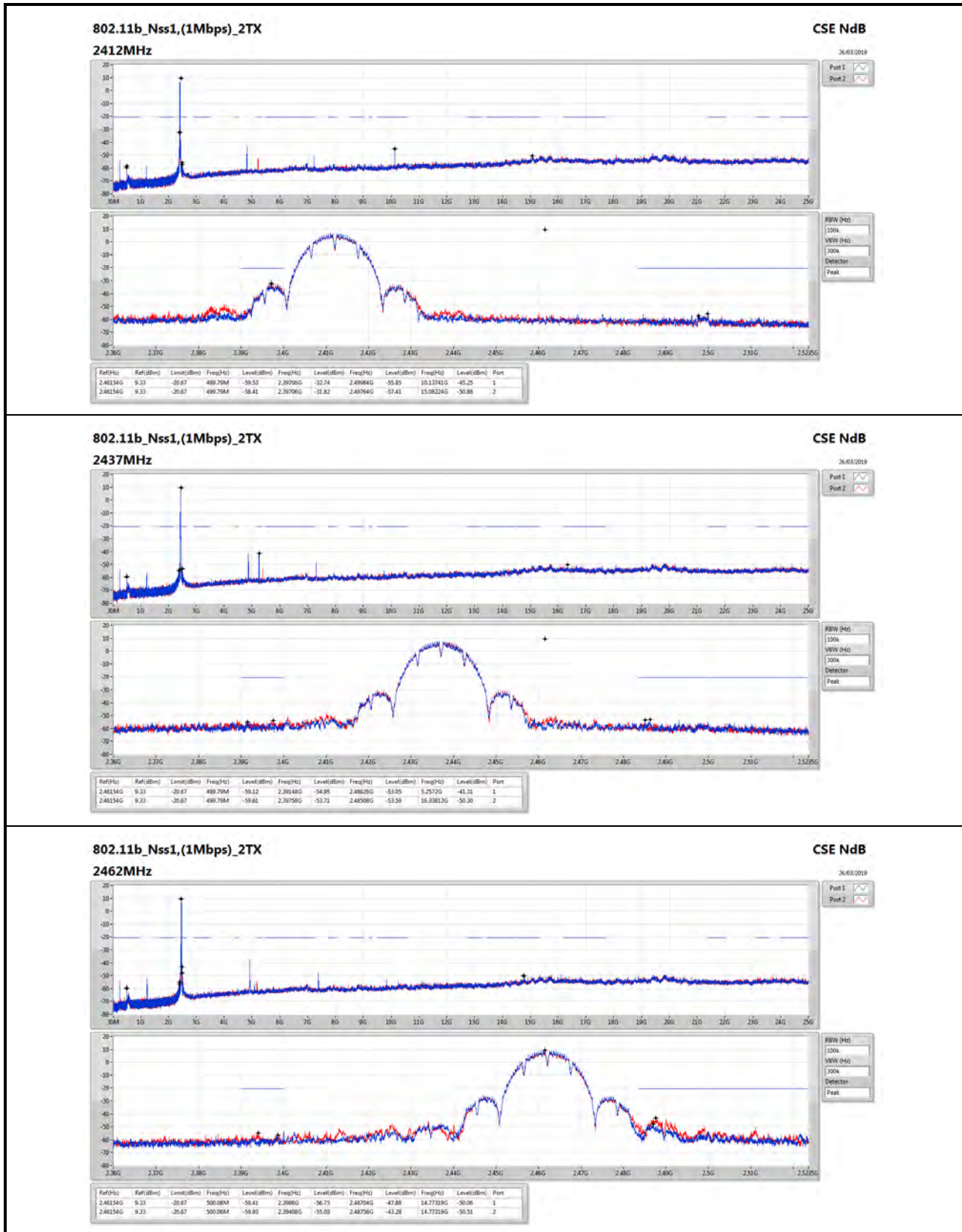


Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.46154G	9.33	-20.67	499.79M	-58.41	2.39706G	-31.82	2.49764G	-57.41	15.08224G	-50.88	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43954G	8.56	-21.44	2.30204G	-58.70	2.39988G	-25.22	2.48956G	-49.26	16.21169G	-51.03	2
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.43954G	9.15	-20.85	2.30233G	-59.25	2.39858G	-26.31	2.4908G	-50.55	13.05936G	-49.27	2
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.43453G	3.52	-26.48	500.02M	-59.26	2.39948G	-32.42	2.4895G	-43.30	24.47835G	-50.99	2

Result

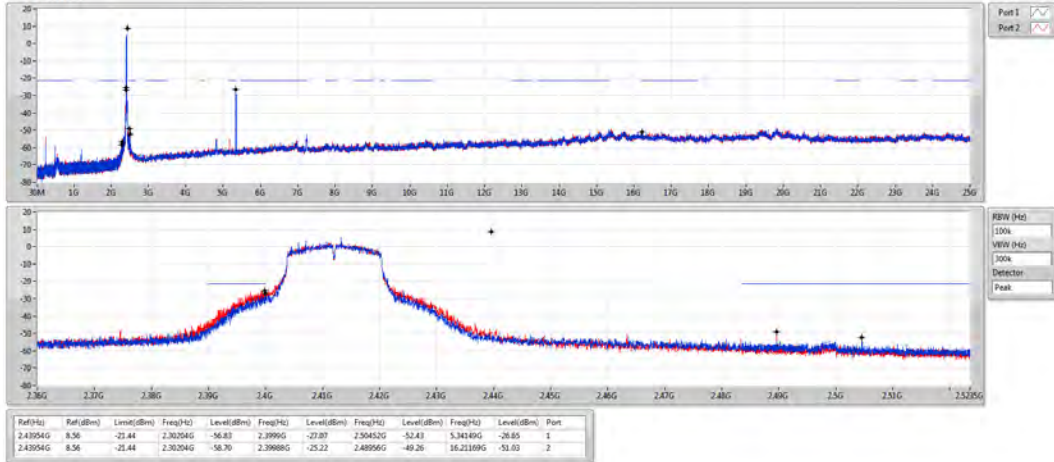
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.46154G	9.33	-20.67	499.79M	-59.53	2.39706G	-32.74	2.49984G	-55.85	10.13741G	-45.25	1
2412MHz	Pass	2.46154G	9.33	-20.67	499.79M	-58.41	2.39706G	-31.82	2.49764G	-57.41	15.08224G	-50.88	2
2437MHz	Pass	2.46154G	9.33	-20.67	499.79M	-59.12	2.39148G	-54.95	2.48626G	-53.05	5.2572G	-41.31	1
2437MHz	Pass	2.46154G	9.33	-20.67	499.79M	-59.61	2.39758G	-53.71	2.48508G	-53.59	16.33812G	-50.30	2
2462MHz	Pass	2.46154G	9.33	-20.67	500.08M	-59.41	2.3986G	-56.75	2.48704G	-47.88	14.77319G	-50.06	1
2462MHz	Pass	2.46154G	9.33	-20.67	500.08M	-59.93	2.39408G	-55.03	2.48756G	-43.28	14.77319G	-50.51	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43954G	8.56	-21.44	2.30204G	-56.83	2.3999G	-27.07	2.50452G	-52.43	5.34149G	-26.65	1
2412MHz	Pass	2.43954G	8.56	-21.44	2.30204G	-58.70	2.39988G	-25.22	2.48956G	-49.26	16.21169G	-51.03	2
2437MHz	Pass	2.43954G	8.56	-21.44	2.30204G	-58.78	2.39582G	-46.56	2.4933G	-49.31	16.61346G	-51.12	1
2437MHz	Pass	2.43954G	8.56	-21.44	499.79M	-59.46	2.39706G	-48.91	2.48492G	-49.86	15.3323G	-50.52	2
2462MHz	Pass	2.43954G	8.56	-21.44	499.79M	-58.57	2.39926G	-53.59	2.48356G	-45.29	10.24137G	-50.39	1
2462MHz	Pass	2.43954G	8.56	-21.44	499.79M	-58.13	2.39328G	-49.02	2.48426G	-42.21	24.39594G	-50.18	2
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43954G	9.15	-20.85	499.79M	-58.63	2.39986G	-28.81	2.5146G	-52.52	5.21787G	-50.28	1
2412MHz	Pass	2.43954G	9.15	-20.85	2.30233G	-59.25	2.39858G	-26.31	2.4908G	-50.55	13.05936G	-49.27	2
2437MHz	Pass	2.43954G	9.15	-20.85	499.79M	-58.76	2.39892G	-49.92	2.48352G	-50.39	16.55446G	-51.13	1
2437MHz	Pass	2.43954G	9.15	-20.85	499.79M	-58.42	2.39706G	-46.81	2.48454G	-48.66	15.01762G	-50.57	2
2462MHz	Pass	2.43954G	9.15	-20.85	499.79M	-59.68	2.39958G	-49.01	2.48396G	-44.61	15.32106G	-51.20	1
2462MHz	Pass	2.43954G	9.15	-20.85	499.79M	-58.83	2.39076G	-49.14	2.48392G	-44.77	15.32668G	-51.08	2
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43453G	3.52	-26.48	2.30597G	-55.61	2.39984G	-40.85	2.53702G	-52.78	15.29902G	-50.81	1
2422MHz	Pass	2.43453G	3.52	-26.48	500.02M	-58.44	2.39452G	-36.41	2.49986G	-54.38	15.3467G	-50.08	2
2437MHz	Pass	2.43453G	3.52	-26.48	2.30884G	-58.43	2.3996G	-35.92	2.48478G	-46.88	13.06378G	-49.85	1
2437MHz	Pass	2.43453G	3.52	-26.48	500.02M	-59.26	2.39948G	-32.42	2.4895G	-43.30	24.47835G	-50.99	2
2452MHz	Pass	2.43453G	3.52	-26.48	500.02M	-58.76	2.397G	-53.79	2.4845G	-43.80	17.53145G	-51.20	1
2452MHz	Pass	2.43453G	3.52	-26.48	500.02M	-58.99	2.39208G	-53.31	2.48446G	-43.37	15.32145G	-51.04	2



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

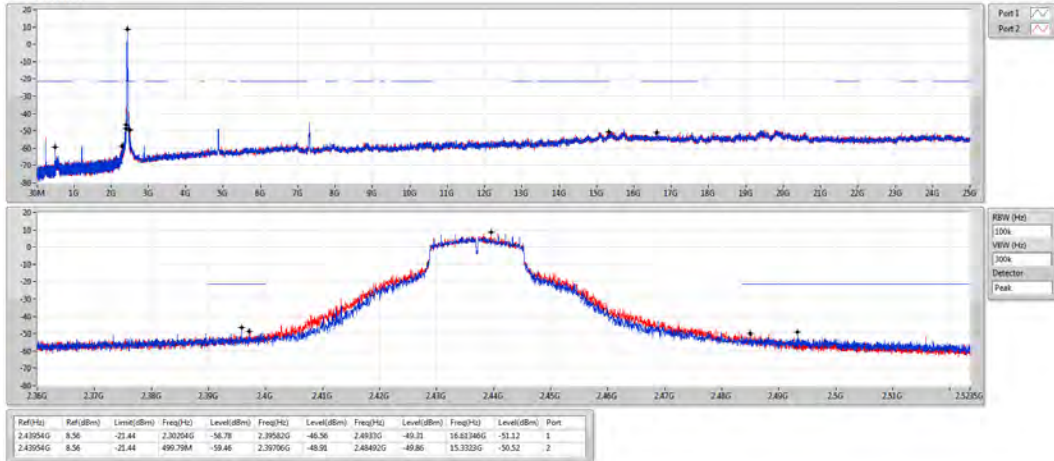
2412MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

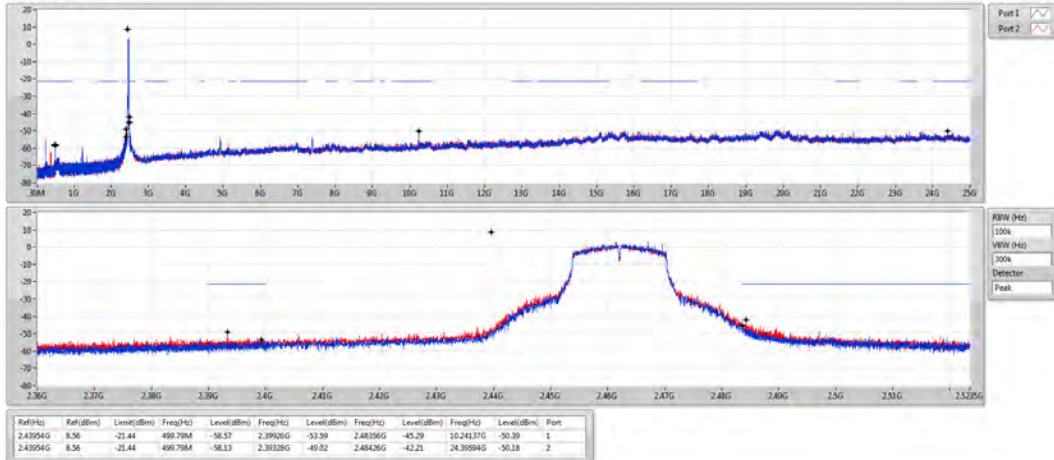
2437MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

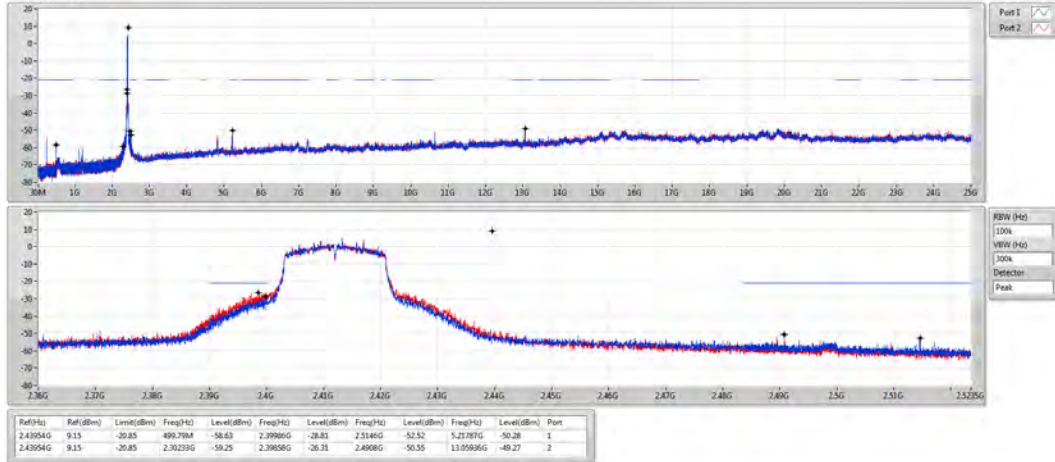
2462MHz



802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

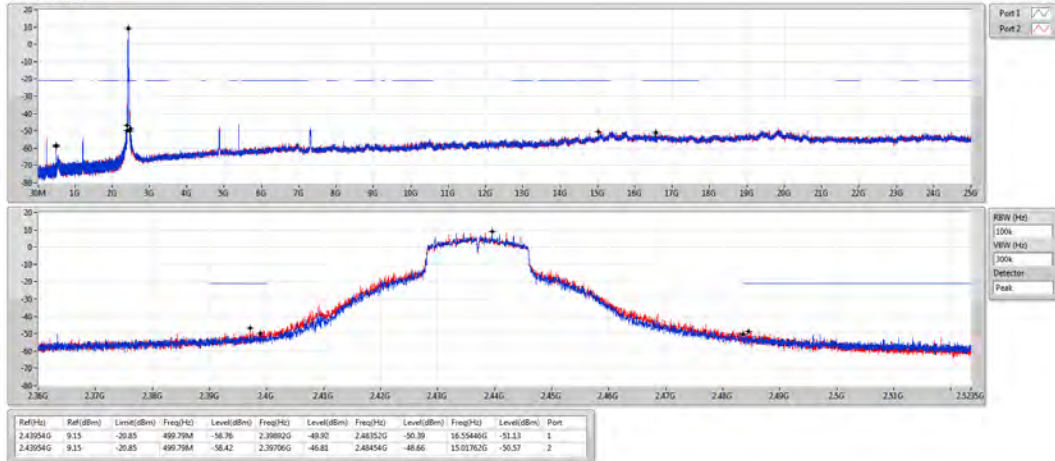
2412MHz



802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

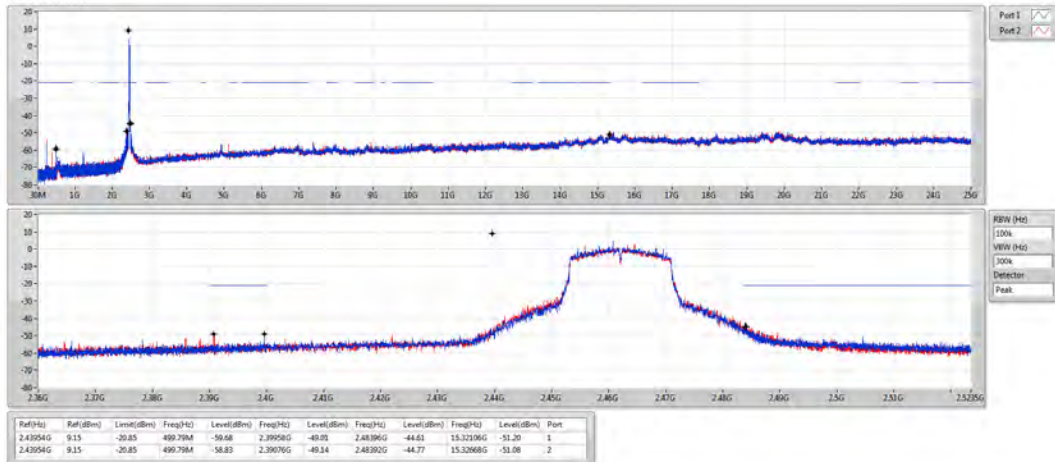
2437MHz

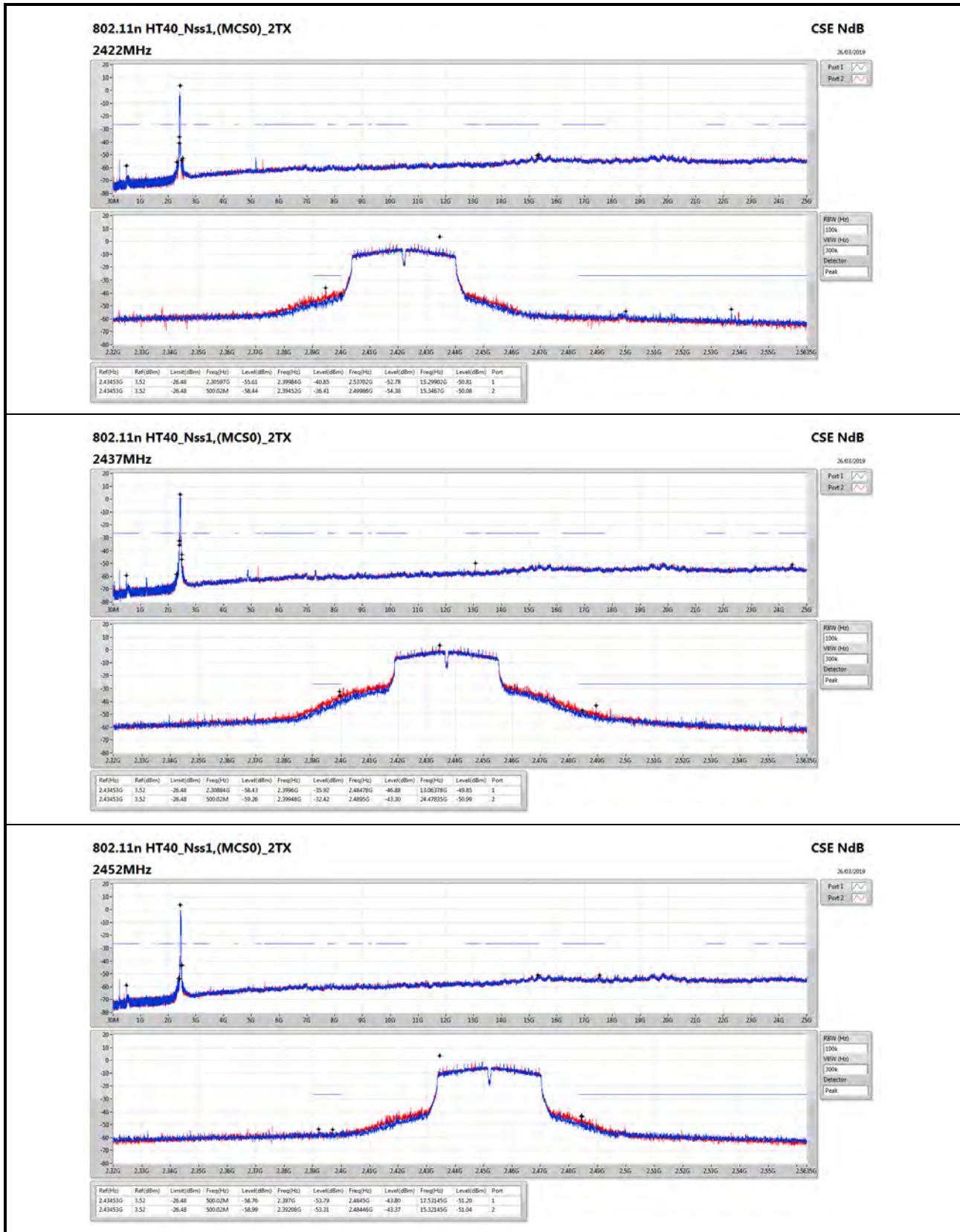


802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

2462MHz







Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	PK	152.22M	40.31	43.50	-3.19	-9.57	3	Horizontal	0	1.00	-



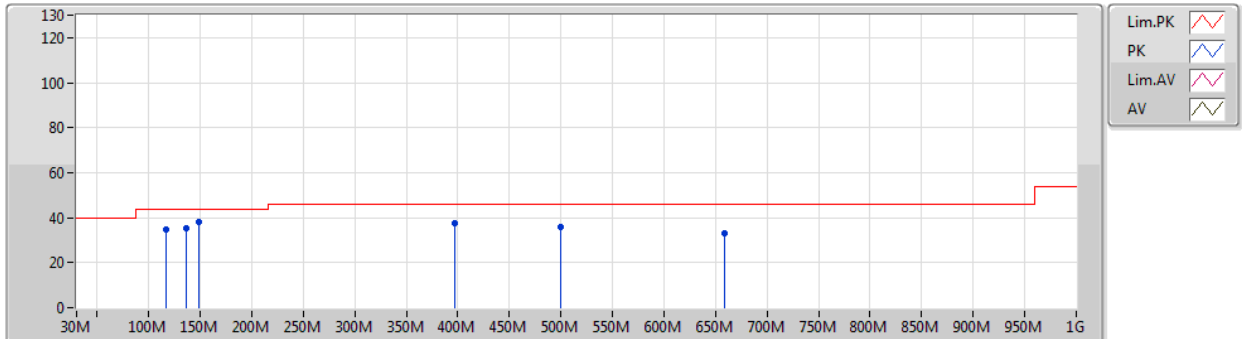
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz_AC Mains	Pass	PK	396.66M	37.33	46.00	-8.67	-3.53	3	Vertical	360	1.00	-
2437MHz_AC Mains	Pass	PK	499.48M	35.73	46.00	-10.27	-1.58	3	Vertical	360	1.00	-
2437MHz_AC Mains	Pass	PK	658.56M	33.24	46.00	-12.76	0.48	3	Vertical	360	1.00	-
2437MHz_AC Mains	Pass	QP	117.3M	34.75	43.50	-8.75	-8.10	3	Vertical	200	1.00	-
2437MHz_AC Mains	Pass	QP	136.7M	35.57	43.50	-7.93	-8.50	3	Vertical	204	1.00	-
2437MHz_AC Mains	Pass	QP	148.34M	38.03	43.50	-5.47	-9.38	3	Vertical	182	1.00	-
2437MHz_AC Mains	Pass	PK	152.22M	40.31	43.50	-3.19	-9.57	3	Horizontal	0	1.00	-
2437MHz_AC Mains	Pass	PK	406.36M	34.82	46.00	-11.18	-2.94	3	Horizontal	0	1.00	-
2437MHz_AC Mains	Pass	PK	499.48M	35.11	46.00	-10.89	-1.58	3	Horizontal	0	1.00	-
2437MHz_AC Mains	Pass	PK	582.9M	32.92	46.00	-13.08	-0.77	3	Horizontal	0	1.00	-
2437MHz_AC Mains	Pass	QP	117.3M	39.61	43.50	-3.89	-8.10	3	Horizontal	220	1.00	-
2437MHz_AC Mains	Pass	QP	146.4M	34.77	43.50	-8.73	-9.25	3	Horizontal	91	1.00	-

802.11n HT40_Nss1,(MCS0)_2TX

23/03/2019

2437MHz_AC Mains

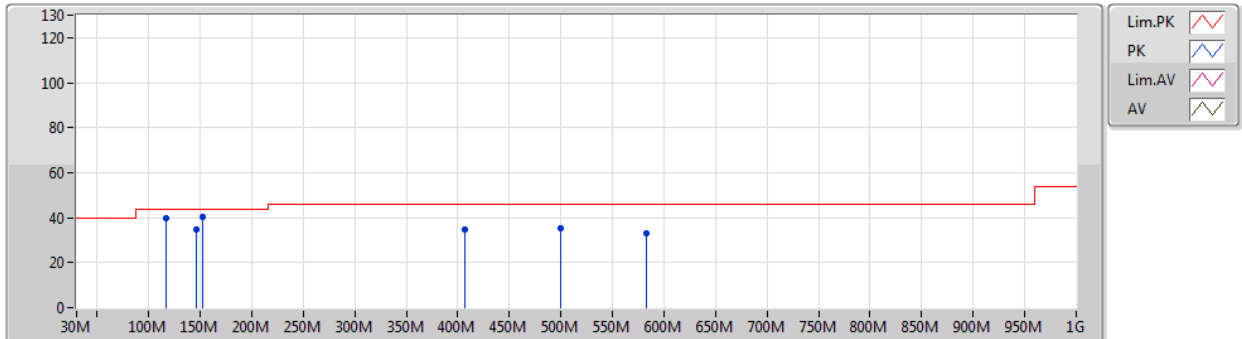


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	396.66M	37.33	46.00	-8.67	-3.53	3	Vertical	360	1.00	-				
PK	499.48M	35.73	46.00	-10.27	-1.58	3	Vertical	360	1.00	-				
PK	658.56M	33.24	46.00	-12.76	0.48	3	Vertical	360	1.00	-				
QP	117.3M	34.75	43.50	-8.75	-8.10	3	Vertical	200	1.00	-				
QP	136.7M	35.57	43.50	-7.93	-8.50	3	Vertical	204	1.00	-				
QP	148.34M	38.03	43.50	-5.47	-9.38	3	Vertical	182	1.00	-				

802.11n HT40_Nss1,(MCS0)_2TX

23/03/2019

2437MHz_AC Mains



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	152.22M	40.31	43.50	-3.19	-9.57	3	Horizontal	0	1.00	-				
PK	406.36M	34.82	46.00	-11.18	-2.94	3	Horizontal	0	1.00	-				
PK	499.48M	35.11	46.00	-10.89	-1.58	3	Horizontal	0	1.00	-				
PK	582.9M	32.92	46.00	-13.08	-0.77	3	Horizontal	0	1.00	-				
QP	117.3M	39.61	43.50	-3.89	-8.10	3	Horizontal	220	1.00	-				
QP	146.4M	34.77	43.50	-8.73	-9.25	3	Horizontal	91	1.00	-				

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	2.4878G	52.44	54.00	-1.56	31.35	3	Vertical	16	2.17	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.4842G	53.83	54.00	-0.17	31.36	3	Vertical	185	1.34	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	2.39G	53.87	54.00	-0.13	31.50	3	Vertical	47	1.51	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	AV	2.4835G	53.92	54.00	-0.08	31.36	3	Vertical	50	1.18	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TX	Pass	AV	2.3852G	47.54	54.00	-6.46	31.52	3	Vertical	163	1.30	-
2412MHz_TX	Pass	AV	2.4112G	106.82	Inf	-Inf	31.46	3	Vertical	163	1.30	-
2412MHz_TX	Pass	PK	2.387G	58.21	74.00	-15.79	31.51	3	Vertical	163	1.30	-
2412MHz_TX	Pass	PK	2.411G	110.73	Inf	-Inf	31.46	3	Vertical	163	1.30	-
2412MHz_TX	Pass	AV	2.3856G	45.47	54.00	-8.53	31.52	3	Horizontal	125	1.08	-
2412MHz_TX	Pass	AV	2.4112G	100.36	Inf	-Inf	31.46	3	Horizontal	125	1.08	-
2412MHz_TX	Pass	PK	2.3854G	56.80	74.00	-17.20	31.52	3	Horizontal	125	1.08	-
2412MHz_TX	Pass	PK	2.411G	104.22	Inf	-Inf	31.46	3	Horizontal	125	1.08	-
2412MHz_TX	Pass	AV	4.82412G	39.08	54.00	-14.92	7.12	3	Vertical	262	1.06	-
2412MHz_TX	Pass	PK	4.8243G	48.11	74.00	-25.89	7.12	3	Vertical	262	1.06	-
2412MHz_TX	Pass	AV	4.82406G	34.78	54.00	-19.22	7.12	3	Horizontal	299	1.36	-
2412MHz_TX	Pass	PK	4.82376G	46.70	74.00	-27.30	7.12	3	Horizontal	299	1.36	-
2417MHz_TX	Pass	AV	2.39G	49.34	54.00	-4.66	31.50	3	Vertical	165	1.70	-
2417MHz_TX	Pass	AV	2.4162G	108.08	Inf	-Inf	31.45	3	Vertical	165	1.70	-
2417MHz_TX	Pass	PK	2.3892G	59.44	74.00	-14.56	31.50	3	Vertical	165	1.70	-
2417MHz_TX	Pass	PK	2.416G	112.00	Inf	-Inf	31.45	3	Vertical	165	1.70	-
2417MHz_TX	Pass	AV	2.389G	45.25	54.00	-8.75	31.50	3	Horizontal	125	1.10	-
2417MHz_TX	Pass	AV	2.4162G	100.99	Inf	-Inf	31.45	3	Horizontal	125	1.10	-
2417MHz_TX	Pass	PK	2.386G	57.28	74.00	-16.72	31.52	3	Horizontal	125	1.10	-
2417MHz_TX	Pass	PK	2.418G	104.92	Inf	-Inf	31.44	3	Horizontal	125	1.10	-
2437MHz_TX	Pass	AV	2.3846G	45.13	54.00	-8.87	31.52	3	Vertical	165	1.48	-
2437MHz_TX	Pass	AV	2.4362G	107.86	Inf	-Inf	31.43	3	Vertical	165	1.48	-
2437MHz_TX	Pass	AV	2.4986G	44.63	54.00	-9.37	31.34	3	Vertical	165	1.48	-
2437MHz_TX	Pass	PK	2.3678G	57.54	74.00	-16.46	31.58	3	Vertical	165	1.48	-
2437MHz_TX	Pass	PK	2.4362G	111.75	Inf	-Inf	31.43	3	Vertical	165	1.48	-
2437MHz_TX	Pass	PK	2.4986G	56.02	74.00	-17.98	31.34	3	Vertical	165	1.48	-
2437MHz_TX	Pass	AV	2.3402G	44.28	54.00	-9.72	31.67	3	Horizontal	354	2.03	-
2437MHz_TX	Pass	AV	2.4362G	99.85	Inf	-Inf	31.43	3	Horizontal	354	2.03	-
2437MHz_TX	Pass	AV	2.4982G	43.62	54.00	-10.38	31.34	3	Horizontal	354	2.03	-
2437MHz_TX	Pass	PK	2.3826G	56.28	74.00	-17.72	31.53	3	Horizontal	354	2.03	-
2437MHz_TX	Pass	PK	2.4362G	103.77	Inf	-Inf	31.43	3	Horizontal	354	2.03	-
2437MHz_TX	Pass	PK	2.4994G	55.79	74.00	-18.21	31.34	3	Horizontal	354	2.03	-
2437MHz_TX	Pass	AV	4.87412G	37.38	54.00	-16.62	7.21	3	Vertical	267	1.25	-
2437MHz_TX	Pass	AV	7.31064G	44.90	54.00	-9.10	17.26	3	Vertical	27	1.49	-
2437MHz_TX	Pass	PK	4.87376G	46.99	74.00	-27.01	7.21	3	Vertical	267	1.25	-
2437MHz_TX	Pass	PK	7.31754G	57.51	74.00	-16.49	17.33	3	Vertical	27	1.49	-
2437MHz_TX	Pass	AV	4.87406G	36.49	54.00	-17.51	7.21	3	Horizontal	308	1.92	-
2437MHz_TX	Pass	AV	7.31706G	44.78	54.00	-9.22	17.32	3	Horizontal	284	1.26	-
2437MHz_TX	Pass	PK	4.87418G	46.75	74.00	-27.25	7.21	3	Horizontal	308	1.92	-
2437MHz_TX	Pass	PK	7.3017G	57.22	74.00	-16.78	17.19	3	Horizontal	284	1.26	-
2462MHz_TX	Pass	AV	2.4602G	108.23	Inf	-Inf	31.39	3	Vertical	16	2.17	-
2462MHz_TX	Pass	AV	2.4878G	52.44	54.00	-1.56	31.35	3	Vertical	16	2.17	-
2462MHz_TX	Pass	PK	2.4612G	112.97	Inf	-Inf	31.39	3	Vertical	16	2.17	-
2462MHz_TX	Pass	PK	2.4876G	60.65	74.00	-13.35	31.35	3	Vertical	16	2.17	-
2462MHz_TX	Pass	AV	2.4612G	100.99	Inf	-Inf	31.39	3	Horizontal	318	1.48	-
2462MHz_TX	Pass	AV	2.4876G	45.69	54.00	-8.31	31.35	3	Horizontal	318	1.48	-
2462MHz_TX	Pass	PK	2.4612G	104.98	Inf	-Inf	31.39	3	Horizontal	318	1.48	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz_TX	Pass	PK	2.4878G	56.99	74.00	-17.01	31.35	3	Horizontal	318	1.48	-
2462MHz_TX	Pass	AV	4.91086G	33.92	54.00	-20.08	7.29	3	Vertical	333	1.23	-
2462MHz_TX	Pass	AV	7.37334G	45.00	54.00	-9.00	17.82	3	Vertical	65	1.43	-
2462MHz_TX	Pass	PK	4.93744G	46.39	74.00	-27.61	7.38	3	Vertical	333	1.23	-
2462MHz_TX	Pass	PK	7.39758G	57.33	74.00	-16.67	18.02	3	Vertical	65	1.43	-
2462MHz_TX	Pass	AV	4.924G	34.38	54.00	-19.62	7.33	3	Horizontal	136	1.50	-
2462MHz_TX	Pass	AV	7.3722G	44.90	54.00	-9.10	17.80	3	Horizontal	33	1.37	-
2462MHz_TX	Pass	PK	4.93714G	46.22	74.00	-27.78	7.38	3	Horizontal	136	1.50	-
2462MHz_TX	Pass	PK	7.38078G	57.37	74.00	-16.63	17.88	3	Horizontal	33	1.37	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TX	Pass	AV	2.39G	52.72	54.00	-1.28	31.50	3	Vertical	22	1.72	-
2412MHz_TX	Pass	AV	2.4112G	103.43	Inf	-Inf	31.46	3	Vertical	22	1.72	-
2412MHz_TX	Pass	PK	2.39G	70.74	74.00	-3.26	31.50	3	Vertical	22	1.72	-
2412MHz_TX	Pass	PK	2.4112G	112.84	Inf	-Inf	31.46	3	Vertical	22	1.72	-
2412MHz_TX	Pass	AV	2.39G	47.58	54.00	-6.42	31.50	3	Horizontal	339	1.26	-
2412MHz_TX	Pass	AV	2.411G	93.31	Inf	-Inf	31.46	3	Horizontal	339	1.26	-
2412MHz_TX	Pass	PK	2.3896G	61.51	74.00	-12.49	31.50	3	Horizontal	339	1.26	-
2412MHz_TX	Pass	PK	2.4102G	103.49	Inf	-Inf	31.46	3	Horizontal	339	1.26	-
2412MHz_TX	Pass	AV	4.80936G	34.03	54.00	-19.97	7.10	3	Vertical	303	1.23	-
2412MHz_TX	Pass	PK	4.81086G	45.81	74.00	-28.19	7.11	3	Vertical	303	1.23	-
2412MHz_TX	Pass	AV	4.81008G	34.03	54.00	-19.97	7.11	3	Horizontal	222	1.54	-
2412MHz_TX	Pass	PK	4.81596G	45.69	74.00	-28.31	7.12	3	Horizontal	222	1.54	-
2417MHz_TX	Pass	AV	2.39G	52.49	54.00	-1.51	31.50	3	Vertical	22	1.70	-
2417MHz_TX	Pass	AV	2.416G	106.08	Inf	-Inf	31.45	3	Vertical	22	1.70	-
2417MHz_TX	Pass	PK	2.39G	68.56	74.00	-5.44	31.50	3	Vertical	22	1.70	-
2417MHz_TX	Pass	PK	2.4162G	115.71	Inf	-Inf	31.45	3	Vertical	22	1.70	-
2417MHz_TX	Pass	AV	2.39G	47.99	54.00	-6.01	31.50	3	Horizontal	339	1.75	-
2417MHz_TX	Pass	AV	2.4194G	96.07	Inf	-Inf	31.44	3	Horizontal	339	1.75	-
2417MHz_TX	Pass	PK	2.3894G	63.53	74.00	-10.47	31.50	3	Horizontal	339	1.75	-
2417MHz_TX	Pass	PK	2.4152G	105.54	Inf	-Inf	31.45	3	Horizontal	339	1.75	-
2437MHz_TX	Pass	AV	2.3862G	46.36	54.00	-7.64	31.52	3	Vertical	21	1.96	-
2437MHz_TX	Pass	AV	2.4362G	106.51	Inf	-Inf	31.43	3	Vertical	21	1.96	-
2437MHz_TX	Pass	AV	2.4835G	45.38	54.00	-8.62	31.36	3	Vertical	21	1.96	-
2437MHz_TX	Pass	PK	2.3814G	59.17	74.00	-14.83	31.53	3	Vertical	21	1.96	-
2437MHz_TX	Pass	PK	2.4362G	116.19	Inf	-Inf	31.43	3	Vertical	21	1.96	-
2437MHz_TX	Pass	PK	2.487G	58.13	74.00	-15.87	31.36	3	Vertical	21	1.96	-
2437MHz_TX	Pass	AV	2.3374G	44.74	54.00	-9.26	31.68	3	Horizontal	336	1.69	-
2437MHz_TX	Pass	AV	2.4358G	97.53	Inf	-Inf	31.43	3	Horizontal	336	1.69	-
2437MHz_TX	Pass	AV	2.485G	44.35	54.00	-9.65	31.36	3	Horizontal	336	1.69	-
2437MHz_TX	Pass	PK	2.3618G	56.30	74.00	-17.70	31.59	3	Horizontal	336	1.69	-
2437MHz_TX	Pass	PK	2.4354G	108.02	Inf	-Inf	31.42	3	Horizontal	336	1.69	-
2437MHz_TX	Pass	PK	2.4842G	55.73	74.00	-18.27	31.36	3	Horizontal	336	1.69	-
2437MHz_TX	Pass	AV	4.85966G	34.19	54.00	-19.81	7.19	3	Vertical	359	1.50	-
2437MHz_TX	Pass	AV	7.32054G	45.26	54.00	-8.74	17.35	3	Vertical	57	1.34	-
2437MHz_TX	Pass	PK	4.88156G	45.59	74.00	-28.41	7.22	3	Vertical	359	1.50	-
2437MHz_TX	Pass	PK	7.32426G	57.45	74.00	-16.55	17.39	3	Vertical	57	1.34	-
2437MHz_TX	Pass	AV	4.85984G	34.19	54.00	-19.81	7.19	3	Horizontal	173	2.26	-
2437MHz_TX	Pass	AV	7.31706G	45.40	54.00	-8.60	17.32	3	Horizontal	338	1.60	-
2437MHz_TX	Pass	PK	4.87646G	45.77	74.00	-28.23	7.22	3	Horizontal	344	2.40	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz_TX	Pass	PK	7.30806G	57.02	74.00	-16.98	17.24	3	Horizontal	252	1.43	-
2457MHz_TX	Pass	AV	2.4592G	104.55	Inf	-Inf	31.39	3	Vertical	185	1.40	-
2457MHz_TX	Pass	AV	2.4846G	53.13	54.00	-0.87	31.36	3	Vertical	185	1.40	-
2457MHz_TX	Pass	PK	2.4546G	113.57	Inf	-Inf	31.40	3	Vertical	185	1.40	-
2457MHz_TX	Pass	PK	2.4842G	68.66	74.00	-5.34	31.36	3	Vertical	185	1.40	-
2457MHz_TX	Pass	AV	2.456G	97.10	Inf	-Inf	31.40	3	Horizontal	336	1.63	-
2457MHz_TX	Pass	AV	2.4854G	46.62	54.00	-7.38	31.36	3	Horizontal	336	1.63	-
2457MHz_TX	Pass	PK	2.4552G	106.96	Inf	-Inf	31.40	3	Horizontal	336	1.63	-
2457MHz_TX	Pass	PK	2.4852G	59.67	74.00	-14.33	31.36	3	Horizontal	336	1.63	-
2462MHz_TX	Pass	AV	2.4596G	102.18	Inf	-Inf	31.39	3	Vertical	185	1.34	-
2462MHz_TX	Pass	AV	2.4842G	53.83	54.00	-0.17	31.36	3	Vertical	185	1.34	-
2462MHz_TX	Pass	PK	2.459G	111.47	Inf	-Inf	31.39	3	Vertical	185	1.34	-
2462MHz_TX	Pass	PK	2.4848G	68.14	74.00	-5.86	31.36	3	Vertical	185	1.34	-
2462MHz_TX	Pass	AV	2.4606G	95.07	Inf	-Inf	31.39	3	Horizontal	336	1.63	-
2462MHz_TX	Pass	AV	2.4852G	46.40	54.00	-7.60	31.36	3	Horizontal	336	1.63	-
2462MHz_TX	Pass	PK	2.4602G	104.95	Inf	-Inf	31.39	3	Horizontal	336	1.63	-
2462MHz_TX	Pass	PK	2.4848G	59.85	74.00	-14.15	31.36	3	Horizontal	336	1.63	-
2462MHz_TX	Pass	AV	4.91074G	34.38	54.00	-19.62	7.29	3	Vertical	352	2.11	-
2462MHz_TX	Pass	AV	7.3797G	45.42	54.00	-8.58	17.87	3	Vertical	326	2.42	-
2462MHz_TX	Pass	PK	4.9204G	46.68	74.00	-27.32	7.32	3	Vertical	352	2.11	-
2462MHz_TX	Pass	PK	7.37898G	57.31	74.00	-16.69	17.86	3	Vertical	326	2.42	-
2462MHz_TX	Pass	AV	4.91092G	34.60	54.00	-19.40	7.29	3	Horizontal	9	1.31	-
2462MHz_TX	Pass	AV	7.3809G	45.41	54.00	-8.59	17.88	3	Horizontal	137	1.41	-
2462MHz_TX	Pass	PK	4.90996G	45.89	74.00	-28.11	7.28	3	Horizontal	9	1.31	-
2462MHz_TX	Pass	PK	7.37718G	57.15	74.00	-16.85	17.85	3	Horizontal	137	1.41	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TX	Pass	AV	2.3892G	53.27	54.00	-0.73	31.50	3	Vertical	20	1.72	-
2412MHz_TX	Pass	AV	2.4116G	102.20	Inf	-Inf	31.46	3	Vertical	20	1.72	-
2412MHz_TX	Pass	PK	2.389G	70.07	74.00	-3.93	31.50	3	Vertical	20	1.72	-
2412MHz_TX	Pass	PK	2.4118G	111.77	Inf	-Inf	31.46	3	Vertical	20	1.72	-
2412MHz_TX	Pass	AV	2.39G	47.74	54.00	-6.26	31.50	3	Horizontal	145	2.24	-
2412MHz_TX	Pass	AV	2.4104G	93.10	Inf	-Inf	31.46	3	Horizontal	145	2.24	-
2412MHz_TX	Pass	PK	2.39G	62.11	74.00	-11.89	31.50	3	Horizontal	145	2.24	-
2412MHz_TX	Pass	PK	2.4106G	103.61	Inf	-Inf	31.46	3	Horizontal	145	2.24	-
2412MHz_TX	Pass	AV	4.81242G	34.00	54.00	-20.00	7.11	3	Vertical	275	2.17	-
2412MHz_TX	Pass	PK	4.81368G	45.66	74.00	-28.34	7.11	3	Vertical	275	2.17	-
2412MHz_TX	Pass	AV	4.80906G	34.15	54.00	-19.85	7.10	3	Horizontal	225	1.79	-
2412MHz_TX	Pass	PK	4.81992G	45.43	74.00	-28.57	7.12	3	Horizontal	225	1.79	-
2417MHz_TX	Pass	AV	2.39G	53.87	54.00	-0.13	31.50	3	Vertical	47	1.51	-
2417MHz_TX	Pass	AV	2.4158G	105.67	Inf	-Inf	31.45	3	Vertical	47	1.51	-
2417MHz_TX	Pass	PK	2.3898G	71.54	74.00	-2.46	31.50	3	Vertical	47	1.51	-
2417MHz_TX	Pass	PK	2.4158G	114.98	Inf	-Inf	31.45	3	Vertical	47	1.51	-
2417MHz_TX	Pass	AV	2.3896G	50.01	54.00	-3.99	31.50	3	Horizontal	273	1.39	-
2417MHz_TX	Pass	AV	2.4166G	101.62	Inf	-Inf	31.45	3	Horizontal	273	1.39	-
2417MHz_TX	Pass	PK	2.3894G	66.66	74.00	-7.34	31.50	3	Horizontal	273	1.39	-
2417MHz_TX	Pass	PK	2.416G	110.62	Inf	-Inf	31.45	3	Horizontal	273	1.39	-
2437MHz_TX	Pass	AV	2.3898G	48.23	54.00	-5.77	31.50	3	Vertical	185	1.83	-
2437MHz_TX	Pass	AV	2.4378G	106.04	Inf	-Inf	31.42	3	Vertical	185	1.83	-
2437MHz_TX	Pass	AV	2.4835G	49.76	54.00	-4.24	31.36	3	Vertical	185	1.83	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz_TX	Pass	PK	2.3502G	59.36	74.00	-14.64	31.64	3	Vertical	185	1.83	-
2437MHz_TX	Pass	PK	2.4382G	114.79	Inf	-Inf	31.42	3	Vertical	185	1.83	-
2437MHz_TX	Pass	PK	2.4874G	62.53	74.00	-11.47	31.36	3	Vertical	185	1.83	-
2437MHz_TX	Pass	AV	2.3454G	47.66	54.00	-6.34	31.65	3	Horizontal	144	1.40	-
2437MHz_TX	Pass	AV	2.4386G	103.25	Inf	-Inf	31.42	3	Horizontal	144	1.40	-
2437MHz_TX	Pass	AV	2.4842G	48.57	54.00	-5.43	31.36	3	Horizontal	144	1.40	-
2437MHz_TX	Pass	PK	2.3434G	59.44	74.00	-14.56	31.66	3	Horizontal	144	1.40	-
2437MHz_TX	Pass	PK	2.4382G	112.17	Inf	-Inf	31.42	3	Horizontal	144	1.40	-
2437MHz_TX	Pass	PK	2.4838G	59.66	74.00	-14.34	31.36	3	Horizontal	144	1.40	-
2437MHz_TX	Pass	AV	4.86044G	34.19	54.00	-19.81	7.19	3	Vertical	153	1.51	-
2437MHz_TX	Pass	AV	7.31208G	45.27	54.00	-8.73	17.28	3	Vertical	61	1.18	-
2437MHz_TX	Pass	PK	4.86476G	45.69	74.00	-28.31	7.19	3	Vertical	153	1.51	-
2437MHz_TX	Pass	PK	7.31724G	58.03	74.00	-15.97	17.32	3	Vertical	61	1.18	-
2437MHz_TX	Pass	AV	4.8617G	34.09	54.00	-19.91	7.19	3	Horizontal	314	2.21	-
2437MHz_TX	Pass	AV	7.31736G	45.32	54.00	-8.68	17.32	3	Horizontal	64	2.33	-
2437MHz_TX	Pass	PK	4.88204G	45.84	74.00	-28.16	7.22	3	Horizontal	2.33	2.21	-
2437MHz_TX	Pass	PK	7.31868G	56.84	74.00	-17.16	17.34	3	Horizontal	64	2.33	-
2457MHz_TX	Pass	AV	2.4556G	103.65	Inf	-Inf	31.40	3	Vertical	275	2.57	-
2457MHz_TX	Pass	AV	2.4835G	53.50	54.00	-0.50	31.36	3	Vertical	275	2.57	-
2457MHz_TX	Pass	PK	2.4556G	113.08	Inf	-Inf	31.40	3	Vertical	275	2.57	-
2457MHz_TX	Pass	PK	2.4835G	65.47	74.00	-8.53	31.36	3	Vertical	275	2.57	-
2457MHz_TX	Pass	AV	2.4566G	99.48	Inf	-Inf	31.40	3	Horizontal	279	1.55	-
2457MHz_TX	Pass	AV	2.4846G	49.76	54.00	-4.24	31.36	3	Horizontal	279	1.55	-
2457MHz_TX	Pass	PK	2.4544G	108.12	Inf	-Inf	31.40	3	Horizontal	279	1.55	-
2457MHz_TX	Pass	PK	2.485G	62.02	74.00	-11.98	31.36	3	Horizontal	279	1.55	-
2462MHz_TX	Pass	AV	2.4604G	101.83	Inf	-Inf	31.39	3	Vertical	289	2.15	-
2462MHz_TX	Pass	AV	2.4836G	53.50	54.00	-0.50	31.36	3	Vertical	289	2.15	-
2462MHz_TX	Pass	PK	2.4608G	111.23	Inf	-Inf	31.39	3	Vertical	289	2.15	-
2462MHz_TX	Pass	PK	2.4838G	65.88	74.00	-8.12	31.36	3	Vertical	289	2.15	-
2462MHz_TX	Pass	AV	2.4614G	97.90	Inf	-Inf	31.39	3	Horizontal	147	1.62	-
2462MHz_TX	Pass	AV	2.484G	50.61	54.00	-3.39	31.36	3	Horizontal	147	1.62	-
2462MHz_TX	Pass	PK	2.4612G	106.01	Inf	-Inf	31.39	3	Horizontal	147	1.62	-
2462MHz_TX	Pass	PK	2.4842G	63.09	74.00	-10.91	31.36	3	Horizontal	147	1.62	-
2462MHz_TX	Pass	AV	4.9153G	34.23	54.00	-19.77	7.31	3	Vertical	107	1.36	-
2462MHz_TX	Pass	AV	7.3818G	45.40	54.00	-8.60	17.88	3	Vertical	203	1.35	-
2462MHz_TX	Pass	PK	4.93348G	45.87	74.00	-28.13	7.37	3	Vertical	107	1.36	-
2462MHz_TX	Pass	PK	7.39134G	57.20	74.00	-16.80	17.97	3	Vertical	203	1.35	-
2462MHz_TX	Pass	AV	4.93144G	34.28	54.00	-19.72	7.36	3	Horizontal	182	1.99	-
2462MHz_TX	Pass	AV	7.3761G	45.33	54.00	-8.67	17.83	3	Horizontal	306	1.71	-
2462MHz_TX	Pass	PK	4.91068G	46.02	74.00	-27.98	7.29	3	Horizontal	182	1.99	-
2462MHz_TX	Pass	PK	7.37136G	57.06	74.00	-16.94	17.79	3	Horizontal	306	1.71	-
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TX	Pass	AV	2.3892G	52.90	54.00	-1.10	31.50	3	Vertical	47	1.13	-
2422MHz_TX	Pass	AV	2.4236G	95.43	Inf	-Inf	31.44	3	Vertical	47	1.13	-
2422MHz_TX	Pass	AV	2.484G	48.81	54.00	-5.19	31.36	3	Vertical	47	1.13	-
2422MHz_TX	Pass	PK	2.3896G	64.60	74.00	-9.40	31.50	3	Vertical	47	1.13	-
2422MHz_TX	Pass	PK	2.4232G	104.87	Inf	-Inf	31.44	3	Vertical	47	1.13	-
2422MHz_TX	Pass	PK	2.4904G	59.79	74.00	-14.21	31.35	3	Vertical	47	1.13	-
2422MHz_TX	Pass	AV	2.3896G	50.40	54.00	-3.60	31.50	3	Horizontal	147	1.47	-

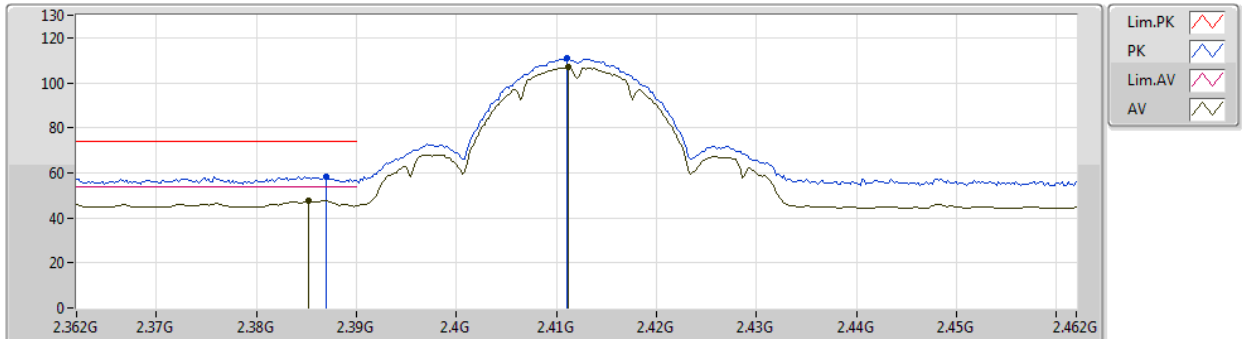
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2422MHz_TX	Pass	AV	2.424G	91.65	Inf	-Inf	31.44	3	Horizontal	147	1.47	-
2422MHz_TX	Pass	AV	2.486G	48.56	54.00	-5.44	31.36	3	Horizontal	147	1.47	-
2422MHz_TX	Pass	PK	2.3896G	61.83	74.00	-12.17	31.50	3	Horizontal	147	1.47	-
2422MHz_TX	Pass	PK	2.4236G	100.57	Inf	-Inf	31.44	3	Horizontal	147	1.47	-
2422MHz_TX	Pass	PK	2.4892G	59.16	74.00	-14.84	31.35	3	Horizontal	147	1.47	-
2422MHz_TX	Pass	AV	4.85486G	34.95	54.00	-19.05	7.18	3	Vertical	200	1.12	-
2422MHz_TX	Pass	PK	4.85294G	45.87	74.00	-28.13	7.18	3	Vertical	200	1.12	-
2422MHz_TX	Pass	AV	4.84514G	34.87	54.00	-19.13	7.16	3	Horizontal	108	1.15	-
2422MHz_TX	Pass	PK	4.84772G	45.66	74.00	-28.34	7.16	3	Horizontal	108	1.15	-
2427MHz_TX	Pass	AV	2.3898G	52.90	54.00	-1.10	31.50	3	Vertical	47	1.12	-
2427MHz_TX	Pass	AV	2.4286G	97.24	Inf	-Inf	31.43	3	Vertical	47	1.12	-
2427MHz_TX	Pass	AV	2.4842G	48.82	54.00	-5.18	31.36	3	Vertical	47	1.12	-
2427MHz_TX	Pass	PK	2.3894G	64.30	74.00	-9.70	31.50	3	Vertical	47	1.12	-
2427MHz_TX	Pass	PK	2.4282G	106.64	Inf	-Inf	31.43	3	Vertical	47	1.12	-
2427MHz_TX	Pass	PK	2.4858G	59.32	74.00	-14.68	31.36	3	Vertical	47	1.12	-
2427MHz_TX	Pass	AV	2.3882G	50.59	54.00	-3.41	31.51	3	Horizontal	146	1.37	-
2427MHz_TX	Pass	AV	2.429G	94.11	Inf	-Inf	31.43	3	Horizontal	146	1.37	-
2427MHz_TX	Pass	AV	2.4982G	48.80	54.00	-5.20	31.34	3	Horizontal	146	1.37	-
2427MHz_TX	Pass	PK	2.3886G	61.68	74.00	-12.32	31.51	3	Horizontal	146	1.37	-
2427MHz_TX	Pass	PK	2.4286G	103.08	Inf	-Inf	31.43	3	Horizontal	146	1.37	-
2427MHz_TX	Pass	PK	2.4998G	59.85	74.00	-14.15	31.34	3	Horizontal	146	1.37	-
2437MHz_TX	Pass	AV	2.3898G	50.96	54.00	-3.04	31.50	3	Vertical	50	1.18	-
2437MHz_TX	Pass	AV	2.4382G	100.68	Inf	-Inf	31.42	3	Vertical	50	1.18	-
2437MHz_TX	Pass	AV	2.4835G	53.92	54.00	-0.08	31.36	3	Vertical	50	1.18	-
2437MHz_TX	Pass	PK	2.3898G	62.17	74.00	-11.83	31.50	3	Vertical	50	1.18	-
2437MHz_TX	Pass	PK	2.4382G	109.93	Inf	-Inf	31.42	3	Vertical	50	1.18	-
2437MHz_TX	Pass	PK	2.4838G	63.75	74.00	-10.25	31.36	3	Vertical	50	1.18	-
2437MHz_TX	Pass	AV	2.3886G	49.16	54.00	-4.84	31.51	3	Horizontal	145	1.41	-
2437MHz_TX	Pass	AV	2.4386G	97.91	Inf	-Inf	31.42	3	Horizontal	145	1.41	-
2437MHz_TX	Pass	AV	2.4838G	51.74	54.00	-2.26	31.36	3	Horizontal	145	1.41	-
2437MHz_TX	Pass	PK	2.3886G	59.72	74.00	-14.28	31.51	3	Horizontal	145	1.41	-
2437MHz_TX	Pass	PK	2.4386G	107.02	Inf	-Inf	31.42	3	Horizontal	145	1.41	-
2437MHz_TX	Pass	PK	2.4854G	62.13	74.00	-11.87	31.36	3	Horizontal	145	1.41	-
2437MHz_TX	Pass	AV	4.85906G	34.83	54.00	-19.17	7.19	3	Vertical	126	1.73	-
2437MHz_TX	Pass	AV	7.31154G	46.09	54.00	-7.91	17.27	3	Vertical	298	1.55	-
2437MHz_TX	Pass	PK	4.86224G	46.85	74.00	-27.15	7.19	3	Vertical	126	1.73	-
2437MHz_TX	Pass	PK	7.31052G	57.02	74.00	-16.98	17.26	3	Vertical	298	1.55	-
2437MHz_TX	Pass	AV	4.87196G	35.09	54.00	-18.91	7.21	3	Horizontal	200	1.65	-
2437MHz_TX	Pass	AV	7.31658G	46.06	54.00	-7.94	17.32	3	Horizontal	119	2.19	-
2437MHz_TX	Pass	PK	4.87874G	45.86	74.00	-28.14	7.22	3	Horizontal	200	1.65	-
2437MHz_TX	Pass	PK	7.31526G	57.21	74.00	-16.79	17.30	3	Horizontal	119	2.25	-
2447MHz_TX	Pass	AV	2.369G	48.72	54.00	-5.28	31.57	3	Vertical	186	1.50	-
2447MHz_TX	Pass	AV	2.4478G	96.67	Inf	-Inf	31.40	3	Vertical	186	1.50	-
2447MHz_TX	Pass	AV	2.4835G	53.50	54.00	-0.50	31.36	3	Vertical	186	1.50	-
2447MHz_TX	Pass	PK	2.3778G	59.05	74.00	-14.95	31.54	3	Vertical	186	1.50	-
2447MHz_TX	Pass	PK	2.4482G	105.39	Inf	-Inf	31.40	3	Vertical	186	1.50	-
2447MHz_TX	Pass	PK	2.4846G	64.00	74.00	-10.00	31.36	3	Vertical	186	1.50	-
2447MHz_TX	Pass	AV	2.3786G	48.21	54.00	-5.79	31.55	3	Horizontal	279	1.52	-
2447MHz_TX	Pass	AV	2.449G	93.70	Inf	-Inf	31.40	3	Horizontal	279	1.52	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2447MHz_TX	Pass	AV	2.4846G	50.40	54.00	-3.60	31.36	3	Horizontal	279	1.52	-
2447MHz_TX	Pass	PK	2.3598G	59.04	74.00	-14.96	31.60	3	Horizontal	279	1.52	-
2447MHz_TX	Pass	PK	2.4486G	101.87	Inf	-Inf	31.40	3	Horizontal	279	1.52	-
2447MHz_TX	Pass	PK	2.4842G	60.12	74.00	-13.88	31.36	3	Horizontal	279	1.52	-
2452MHz_TX	Pass	AV	2.3824G	48.44	54.00	-5.56	31.53	3	Vertical	59	1.09	-
2452MHz_TX	Pass	AV	2.4508G	95.74	Inf	-Inf	31.41	3	Vertical	59	1.09	-
2452MHz_TX	Pass	AV	2.4835G	53.64	54.00	-0.36	31.36	3	Vertical	59	1.09	-
2452MHz_TX	Pass	PK	2.362G	58.82	74.00	-15.18	31.59	3	Vertical	59	1.09	-
2452MHz_TX	Pass	PK	2.4532G	104.58	Inf	-Inf	31.40	3	Vertical	59	1.09	-
2452MHz_TX	Pass	PK	2.4848G	64.86	74.00	-9.14	31.36	3	Vertical	59	1.09	-
2452MHz_TX	Pass	AV	2.3524G	48.10	54.00	-5.90	31.63	3	Horizontal	279	1.54	-
2452MHz_TX	Pass	AV	2.454G	91.88	Inf	-Inf	31.40	3	Horizontal	279	1.54	-
2452MHz_TX	Pass	AV	2.4844G	50.19	54.00	-3.81	31.36	3	Horizontal	279	1.54	-
2452MHz_TX	Pass	PK	2.3576G	58.57	74.00	-15.43	31.61	3	Horizontal	279	1.54	-
2452MHz_TX	Pass	PK	2.4536G	99.69	Inf	-Inf	31.40	3	Horizontal	279	1.54	-
2452MHz_TX	Pass	PK	2.4848G	61.81	74.00	-12.19	31.36	3	Horizontal	279	1.54	-
2452MHz_TX	Pass	AV	4.9061G	35.26	54.00	-18.74	7.27	3	Vertical	213	1.10	-
2452MHz_TX	Pass	AV	7.3662G	46.30	54.00	-7.70	17.75	3	Vertical	217	1.57	-
2452MHz_TX	Pass	PK	4.9121G	45.94	74.00	-28.06	7.30	3	Vertical	213	1.10	-
2452MHz_TX	Pass	PK	7.37004G	57.07	74.00	-16.93	17.78	3	Vertical	217	1.57	-
2452MHz_TX	Pass	AV	4.90874G	34.99	54.00	-19.01	7.28	3	Horizontal	180	1.56	-
2452MHz_TX	Pass	AV	7.35408G	46.11	54.00	-7.89	17.65	3	Horizontal	97	1.92	-
2452MHz_TX	Pass	PK	4.89656G	46.12	74.00	-27.88	7.25	3	Horizontal	180	1.56	-
2452MHz_TX	Pass	PK	7.36602G	57.35	74.00	-16.65	17.75	3	Horizontal	97	1.92	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

21/03/2019

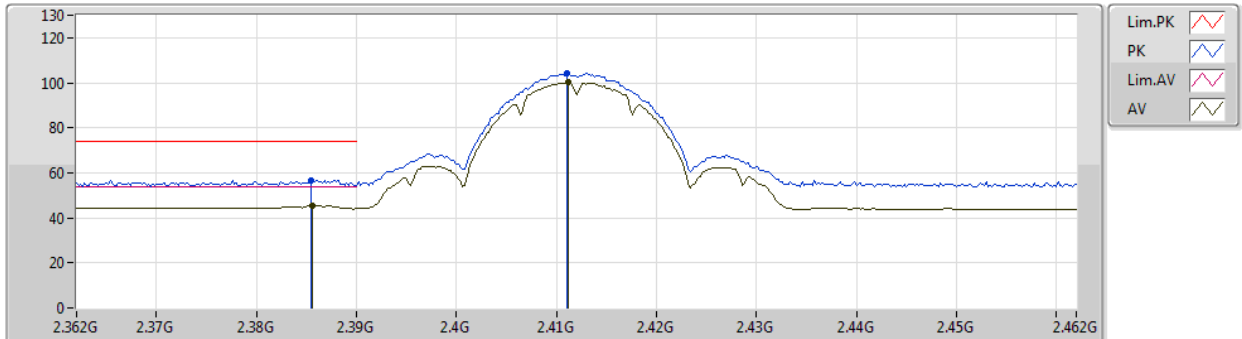


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3852G	47.54	54.00	-6.46	31.52	3	Vertical	163	1.30	-				
AV	2.4112G	106.82	Inf	-Inf	31.46	3	Vertical	163	1.30	-				
PK	2.387G	58.21	74.00	-15.79	31.51	3	Vertical	163	1.30	-				
PK	2.411G	110.73	Inf	-Inf	31.46	3	Vertical	163	1.30	-				

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

21/03/2019

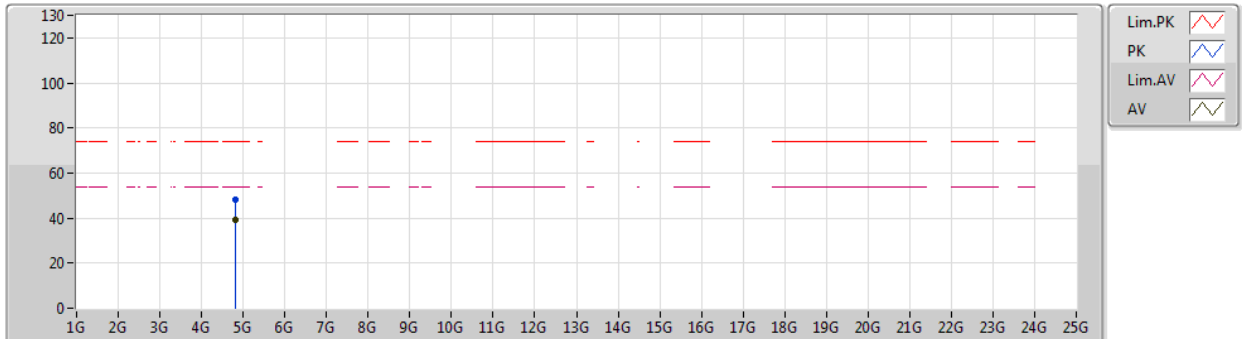


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3856G	45.47	54.00	-8.53	31.52	3	Horizontal	125	1.08	-				
AV	2.4112G	100.36	Inf	-Inf	31.46	3	Horizontal	125	1.08	-				
PK	2.3854G	56.80	74.00	-17.20	31.52	3	Horizontal	125	1.08	-				
PK	2.411G	104.22	Inf	-Inf	31.46	3	Horizontal	125	1.08	-				

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

21/03/2019

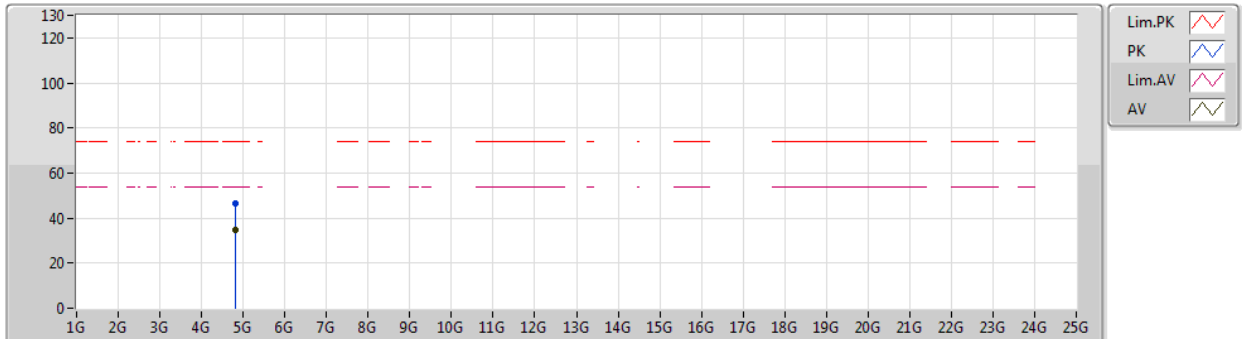


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.82412G	39.08	54.00	-14.92	7.12	3	Vertical	262	1.06	-
PK	4.8243G	48.11	74.00	-25.89	7.12	3	Vertical	262	1.06	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

21/03/2019

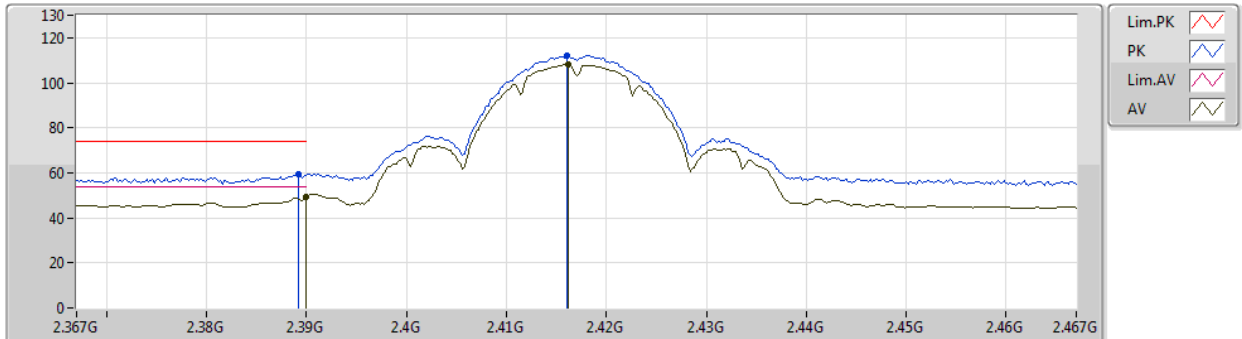


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.82406G	34.78	54.00	-19.22	7.12	3	Horizontal	299	1.36	-
PK	4.82376G	46.70	74.00	-27.30	7.12	3	Horizontal	299	1.36	-

802.11b_Nss1,(1Mbps)_2TX

21/03/2019

2417MHz_TX

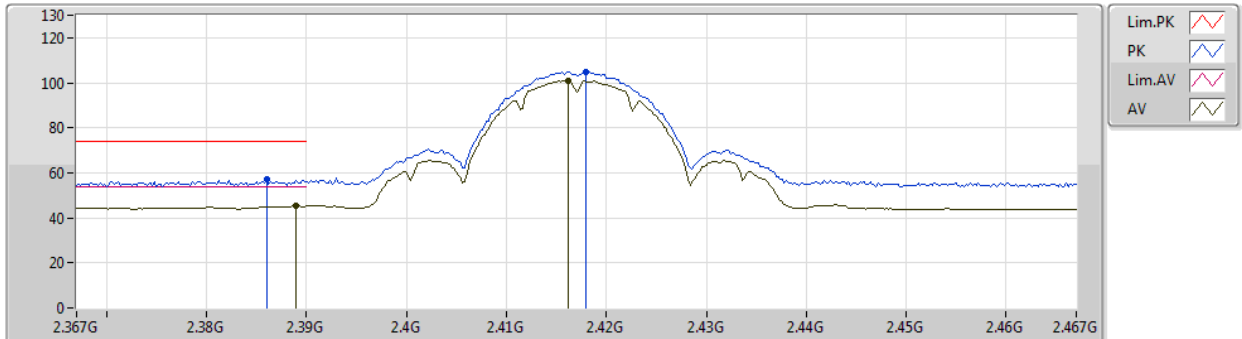


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	49.34	54.00	-4.66	31.50	3	Vertical	165	1.70	-				
AV	2.4162G	108.08	Inf	-Inf	31.45	3	Vertical	165	1.70	-				
PK	2.3892G	59.44	74.00	-14.56	31.50	3	Vertical	165	1.70	-				
PK	2.416G	112.00	Inf	-Inf	31.45	3	Vertical	165	1.70	-				

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

21/03/2019

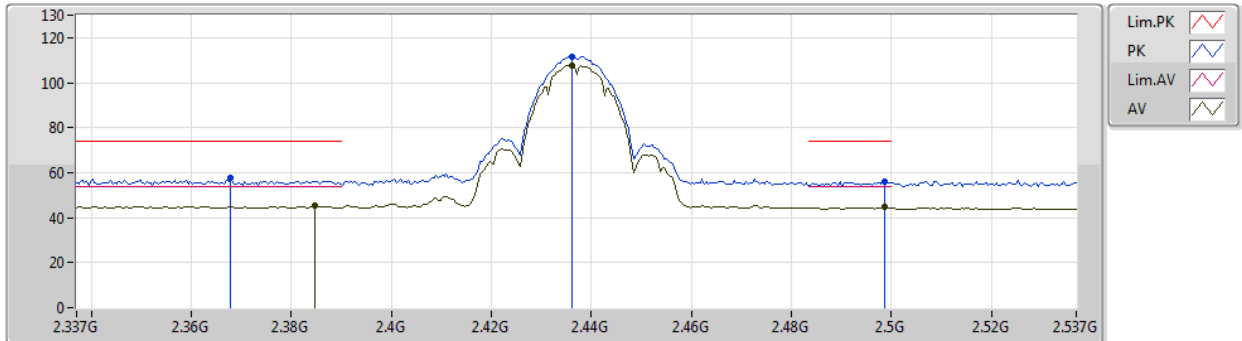


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.389G	45.25	54.00	-8.75	31.50	3	Horizontal	125	1.10	-
AV	2.4162G	100.99	Inf	-Inf	31.45	3	Horizontal	125	1.10	-
PK	2.386G	57.28	74.00	-16.72	31.52	3	Horizontal	125	1.10	-
PK	2.418G	104.92	Inf	-Inf	31.44	3	Horizontal	125	1.10	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

21/03/2019

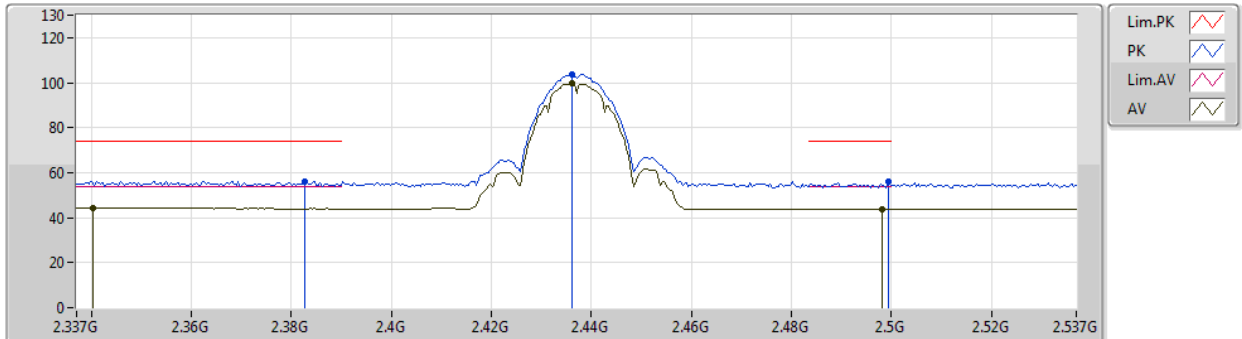


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3846G	45.13	54.00	-8.87	31.52	3	Vertical	165	1.48	-				
AV	2.4362G	107.86	Inf	-Inf	31.43	3	Vertical	165	1.48	-				
AV	2.4986G	44.63	54.00	-9.37	31.34	3	Vertical	165	1.48	-				
PK	2.3678G	57.54	74.00	-16.46	31.58	3	Vertical	165	1.48	-				
PK	2.4362G	111.75	Inf	-Inf	31.43	3	Vertical	165	1.48	-				
PK	2.4986G	56.02	74.00	-17.98	31.34	3	Vertical	165	1.48	-				

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

21/03/2019

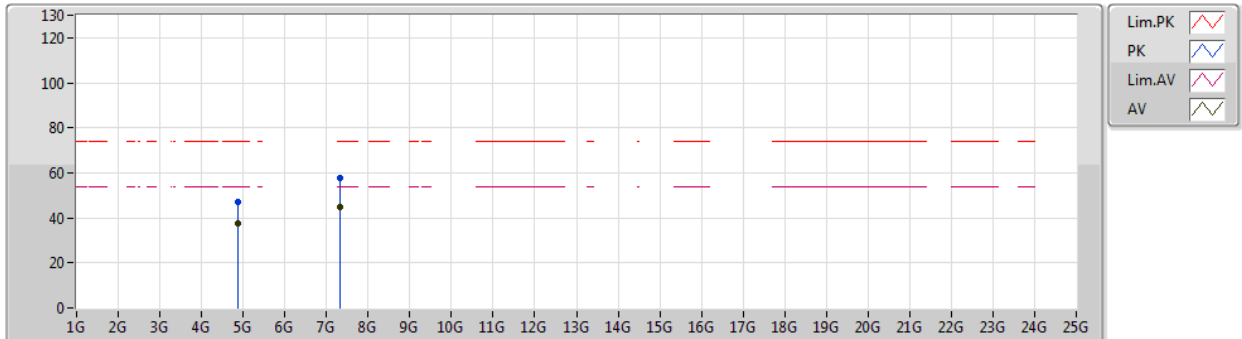


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.3402G	44.28	54.00	-9.72	31.67	3	Horizontal	354	2.03	-
AV	2.4362G	99.85	Inf	-Inf	31.43	3	Horizontal	354	2.03	-
AV	2.4982G	43.62	54.00	-10.38	31.34	3	Horizontal	354	2.03	-
PK	2.3826G	56.28	74.00	-17.72	31.53	3	Horizontal	354	2.03	-
PK	2.4362G	103.77	Inf	-Inf	31.43	3	Horizontal	354	2.03	-
PK	2.4994G	55.79	74.00	-18.21	31.34	3	Horizontal	354	2.03	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

22/03/2019

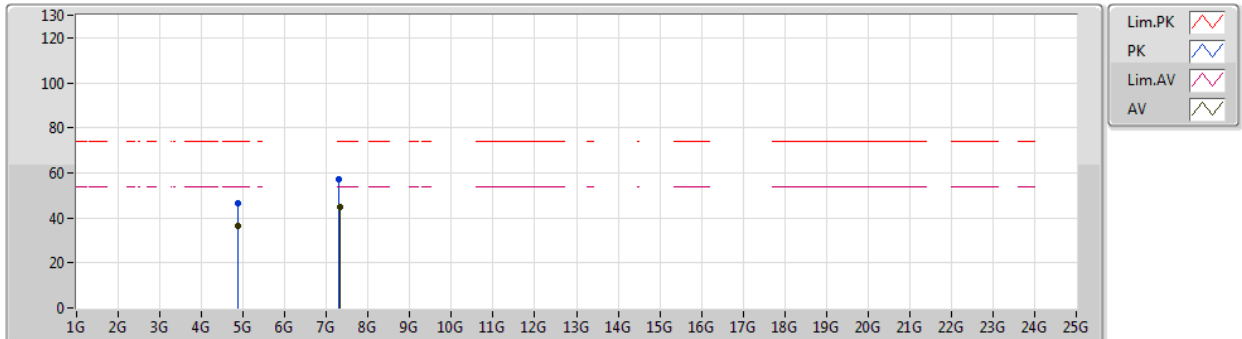


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.87412G	37.38	54.00	-16.62	7.21	3	Vertical	267	1.25	-
AV	7.31064G	44.90	54.00	-9.10	17.26	3	Vertical	27	1.49	-
PK	4.87376G	46.99	74.00	-27.01	7.21	3	Vertical	267	1.25	-
PK	7.31754G	57.51	74.00	-16.49	17.33	3	Vertical	27	1.49	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

22/03/2019

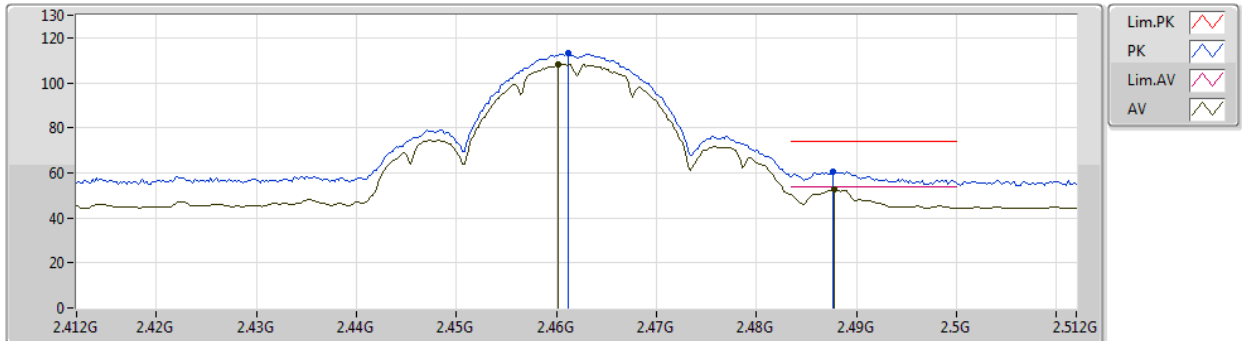


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.87406G	36.49	54.00	-17.51	7.21	3	Horizontal	308	1.92	-
AV	7.31706G	44.78	54.00	-9.22	17.32	3	Horizontal	284	1.26	-
PK	4.87418G	46.75	74.00	-27.25	7.21	3	Horizontal	308	1.92	-
PK	7.3017G	57.22	74.00	-16.78	17.19	3	Horizontal	284	1.26	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

21/03/2019

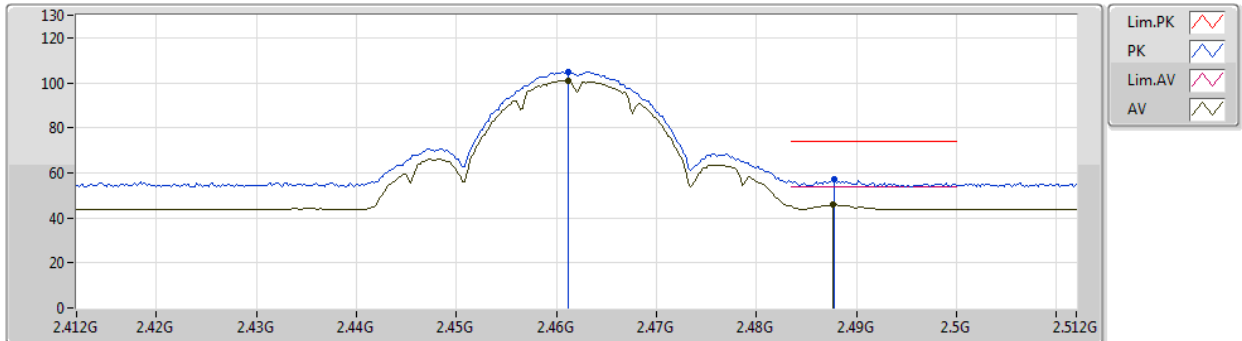


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4602G	108.23	Inf	-Inf	31.39	3	Vertical	16	2.17	-				
AV	2.4878G	52.44	54.00	-1.56	31.35	3	Vertical	16	2.17	-				
PK	2.4612G	112.97	Inf	-Inf	31.39	3	Vertical	16	2.17	-				
PK	2.4876G	60.65	74.00	-13.35	31.35	3	Vertical	16	2.17	-				

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

21/03/2019

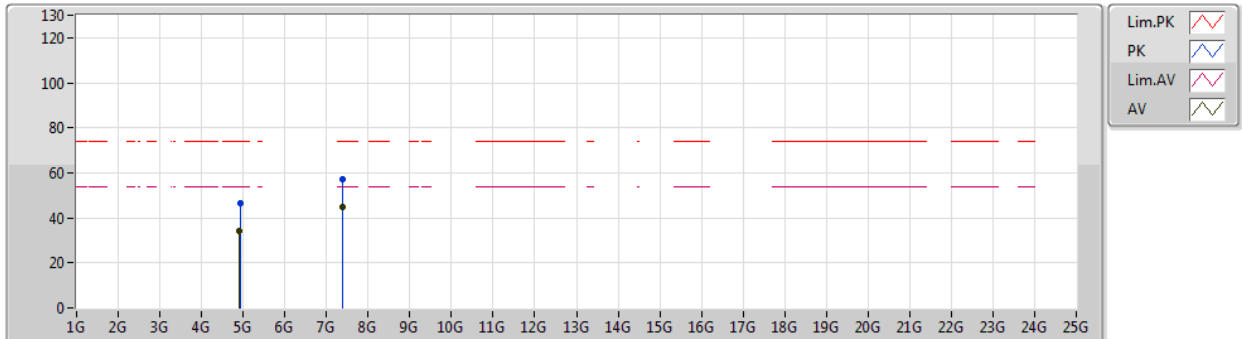


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4612G	100.99	Inf	-Inf	31.39	3	Horizontal	318	1.48	-				
AV	2.4876G	45.69	54.00	-8.31	31.35	3	Horizontal	318	1.48	-				
PK	2.4612G	104.98	Inf	-Inf	31.39	3	Horizontal	318	1.48	-				
PK	2.4876G	56.99	74.00	-17.01	31.35	3	Horizontal	318	1.48	-				

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

22/03/2019

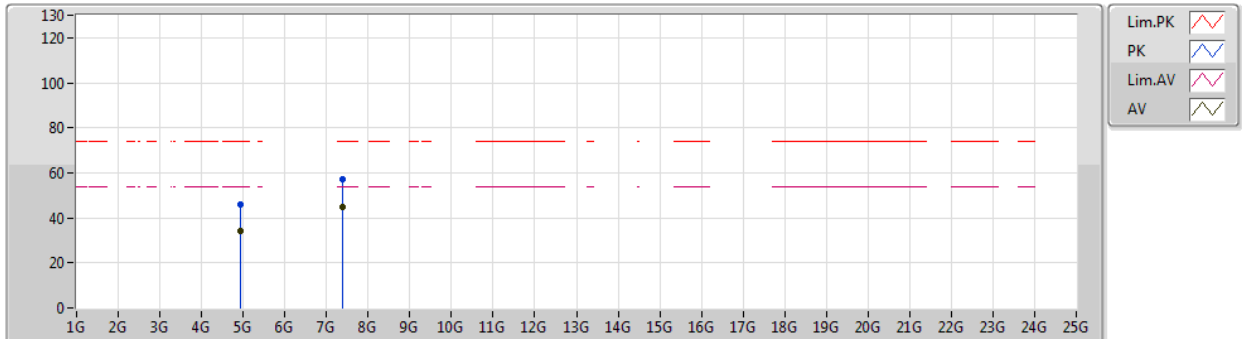


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.91086G	33.92	54.00	-20.08	7.29	3	Vertical	333	1.23	-				
AV	7.37334G	45.00	54.00	-9.00	17.82	3	Vertical	65	1.43	-				
PK	4.93744G	46.39	74.00	-27.61	7.38	3	Vertical	333	1.23	-				
PK	7.39758G	57.33	74.00	-16.67	18.02	3	Vertical	65	1.43	-				

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

22/03/2019

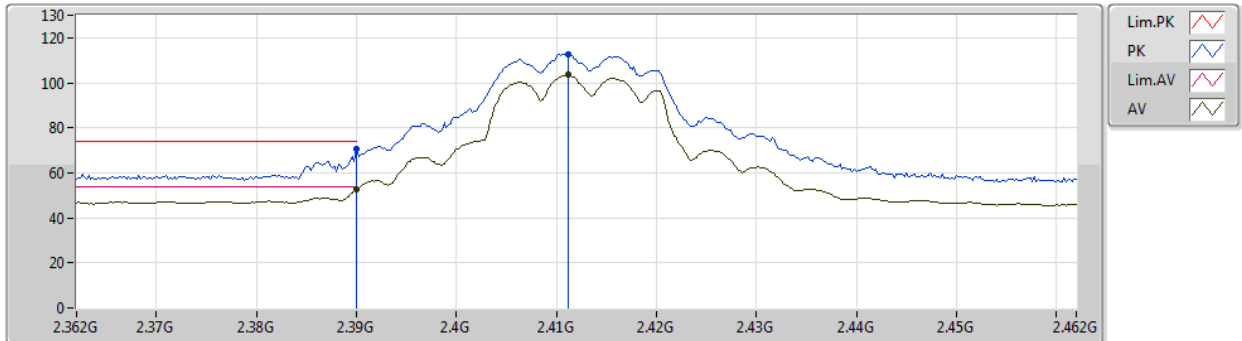


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.924G	34.38	54.00	-19.62	7.33	3	Horizontal	136	1.50	-				
AV	7.3722G	44.90	54.00	-9.10	17.80	3	Horizontal	33	1.37	-				
PK	4.93714G	46.22	74.00	-27.78	7.38	3	Horizontal	136	1.50	-				
PK	7.38078G	57.37	74.00	-16.63	17.88	3	Horizontal	33	1.37	-				

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

21/03/2019

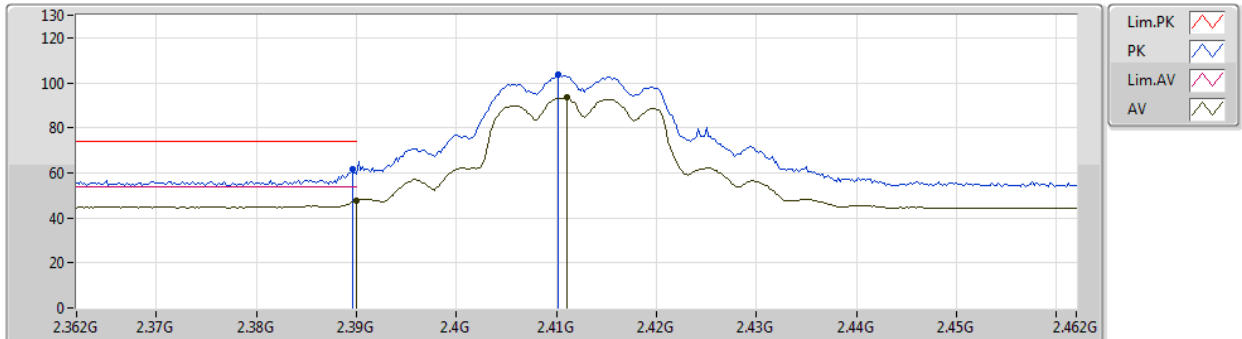


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	52.72	54.00	-1.28	31.50	3	Vertical	22	1.72	-				
AV	2.4112G	103.43	Inf	-Inf	31.46	3	Vertical	22	1.72	-				
PK	2.39G	70.74	74.00	-3.26	31.50	3	Vertical	22	1.72	-				
PK	2.4112G	112.84	Inf	-Inf	31.46	3	Vertical	22	1.72	-				

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

21/03/2019

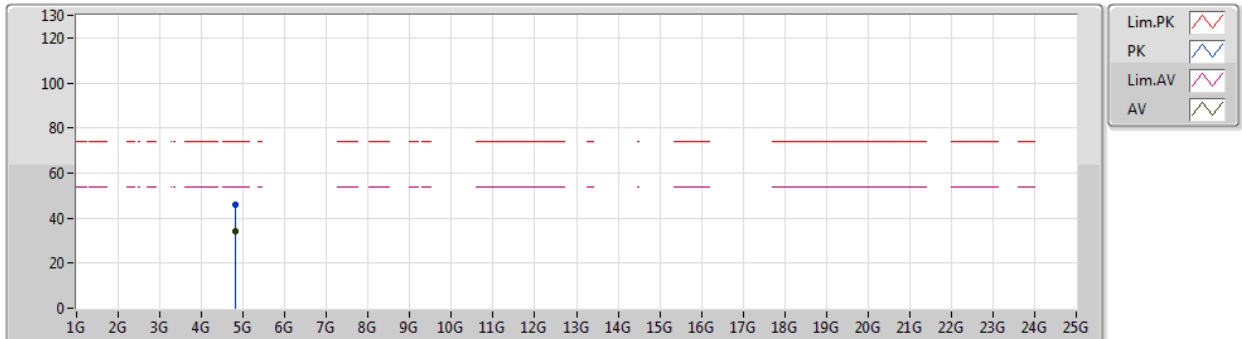


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	47.58	54.00	-6.42	31.50	3	Horizontal	339	1.26	-				
AV	2.411G	93.31	Inf	-Inf	31.46	3	Horizontal	339	1.26	-				
PK	2.3896G	61.51	74.00	-12.49	31.50	3	Horizontal	339	1.26	-				
PK	2.4102G	103.49	Inf	-Inf	31.46	3	Horizontal	339	1.26	-				

802.11g_Nss1,(6Mbps)_2TX

22/03/2019

2412MHz_TX

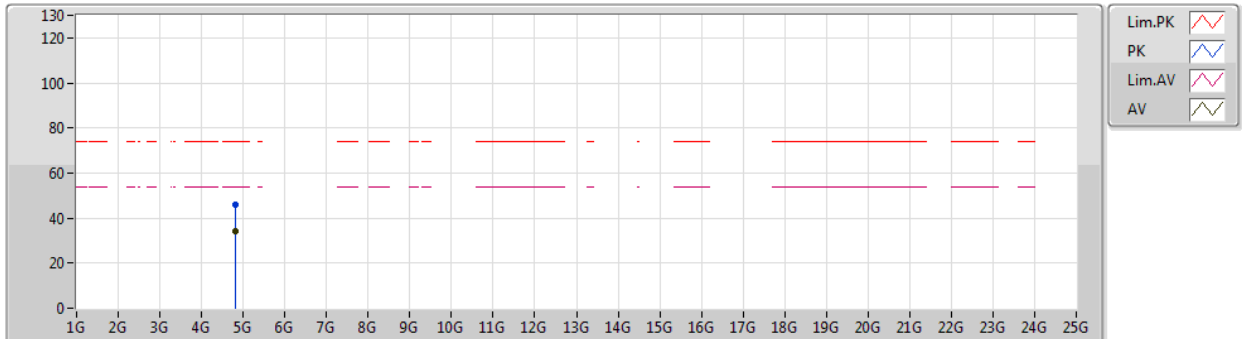


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.80936G	34.03	54.00	-19.97	7.10	3	Vertical	303	1.23	-
PK	4.81086G	45.81	74.00	-28.19	7.11	3	Vertical	303	1.23	-

802.11g_Nss1,(6Mbps)_2TX

22/03/2019

2412MHz_TX

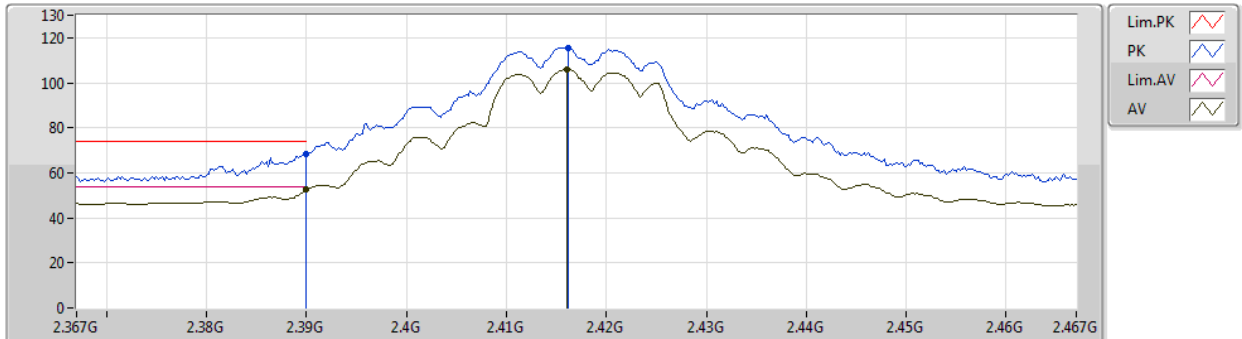


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.81008G	34.03	54.00	-19.97	7.11	3	Horizontal	222	1.54	-
PK	4.81596G	45.69	74.00	-28.31	7.12	3	Horizontal	222	1.54	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

21/03/2019

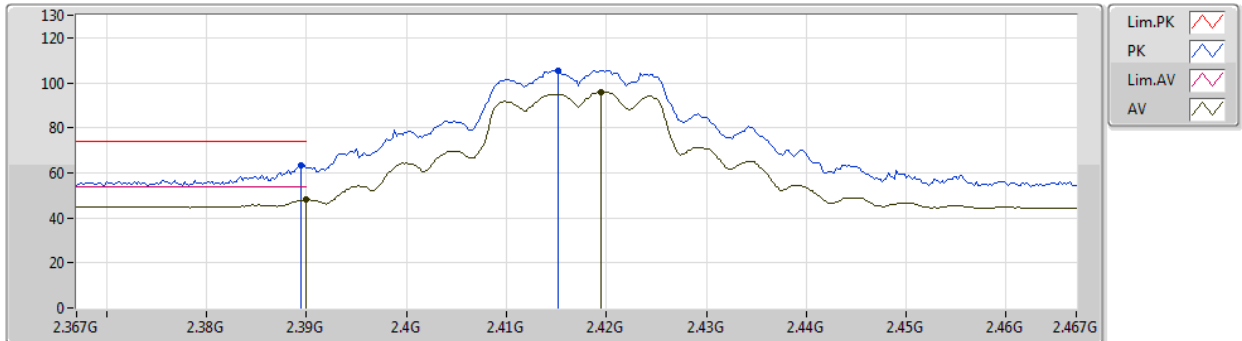


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	52.49	54.00	-1.51	31.50	3	Vertical	22	1.70	-				
AV	2.416G	106.08	Inf	-Inf	31.45	3	Vertical	22	1.70	-				
PK	2.39G	68.56	74.00	-5.44	31.50	3	Vertical	22	1.70	-				
PK	2.4162G	115.71	Inf	-Inf	31.45	3	Vertical	22	1.70	-				

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

21/03/2019

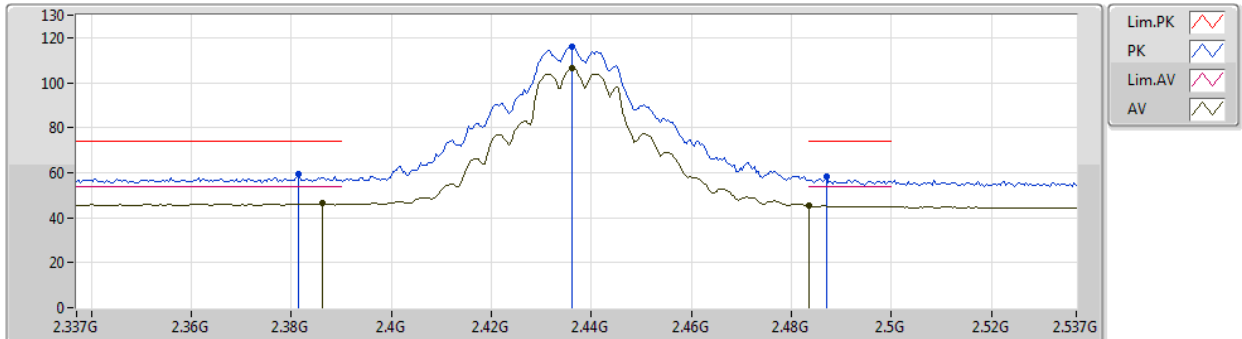


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	47.99	54.00	-6.01	31.50	3	Horizontal	339	1.75	-				
AV	2.4194G	96.07	Inf	-Inf	31.44	3	Horizontal	339	1.75	-				
PK	2.3894G	63.53	74.00	-10.47	31.50	3	Horizontal	339	1.75	-				
PK	2.4152G	105.54	Inf	-Inf	31.45	3	Horizontal	339	1.75	-				

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

21/03/2019

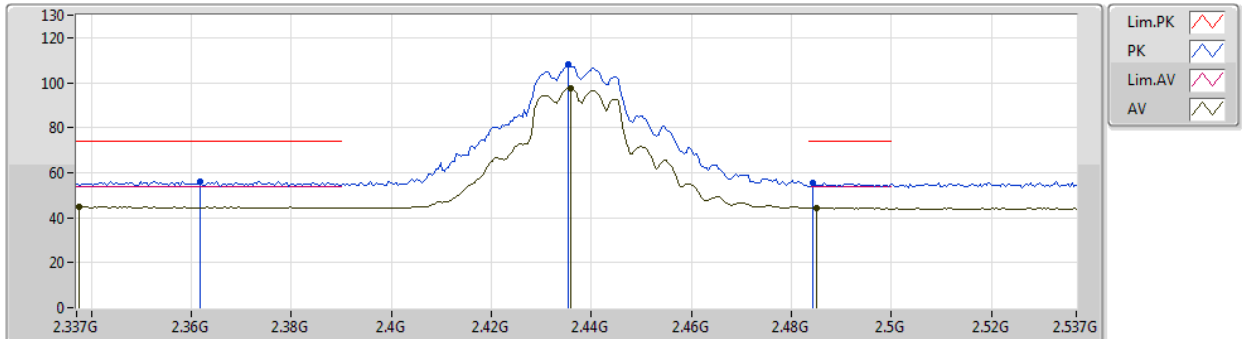


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.3862G	46.36	54.00	-7.64	31.52	3	Vertical	21	1.96	-
AV	2.4362G	106.51	Inf	-Inf	31.43	3	Vertical	21	1.96	-
AV	2.4835G	45.38	54.00	-8.62	31.36	3	Vertical	21	1.96	-
PK	2.3814G	59.17	74.00	-14.83	31.53	3	Vertical	21	1.96	-
PK	2.4362G	116.19	Inf	-Inf	31.43	3	Vertical	21	1.96	-
PK	2.487G	58.13	74.00	-15.87	31.36	3	Vertical	21	1.96	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

21/03/2019

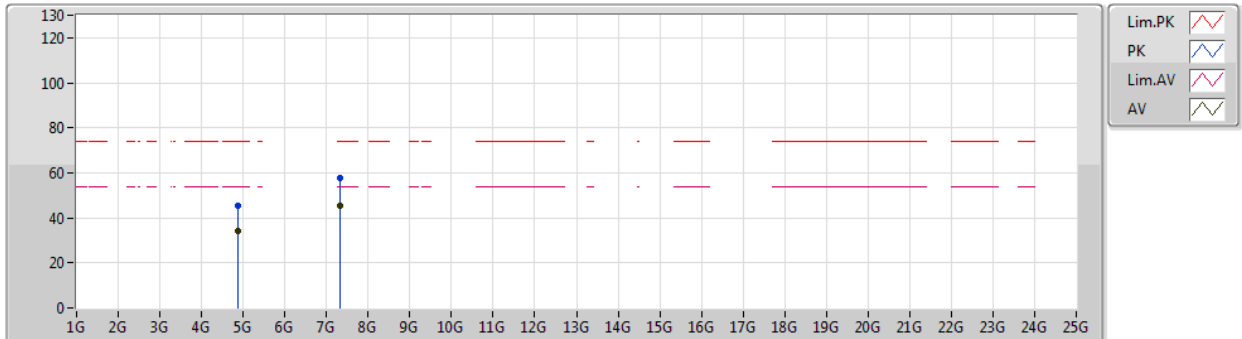


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.3374G	44.74	54.00	-9.26	31.68	3	Horizontal	336	1.69	-
AV	2.4358G	97.53	Inf	-Inf	31.43	3	Horizontal	336	1.69	-
AV	2.485G	44.35	54.00	-9.65	31.36	3	Horizontal	336	1.69	-
PK	2.3618G	56.30	74.00	-17.70	31.59	3	Horizontal	336	1.69	-
PK	2.4354G	108.02	Inf	-Inf	31.42	3	Horizontal	336	1.69	-
PK	2.4842G	55.73	74.00	-18.27	31.36	3	Horizontal	336	1.69	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

22/03/2019

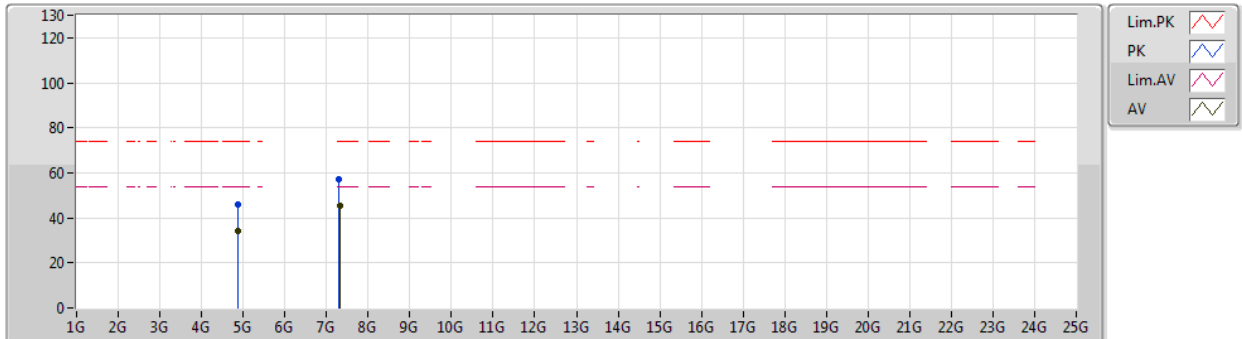


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.85966G	34.19	54.00	-19.81	7.19	3	Vertical	359	1.50	-				
AV	7.32054G	45.26	54.00	-8.74	17.35	3	Vertical	57	1.34	-				
PK	4.88156G	45.59	74.00	-28.41	7.22	3	Vertical	359	1.50	-				
PK	7.32426G	57.45	74.00	-16.55	17.39	3	Vertical	57	1.34	-				

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

22/03/2019

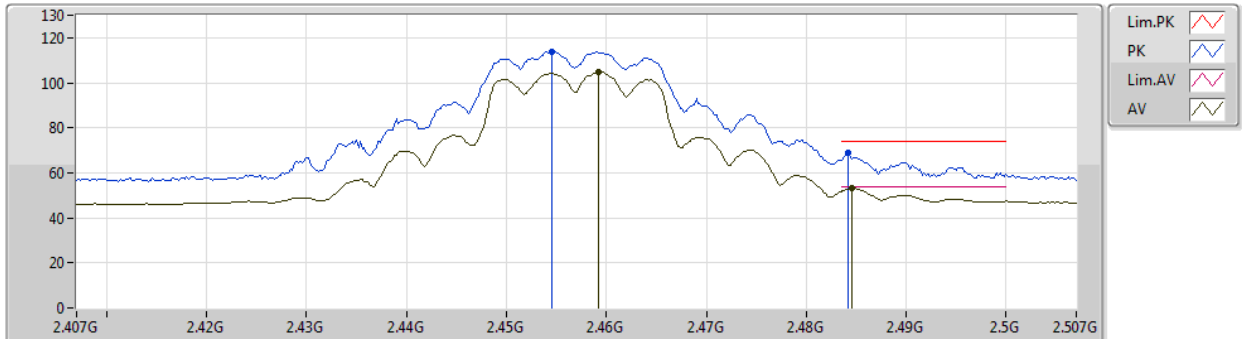


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.85984G	34.19	54.00	-19.81	7.19	3	Horizontal	173	2.26	-				
AV	7.31706G	45.40	54.00	-8.60	17.32	3	Horizontal	338	1.60	-				
PK	4.87646G	45.77	74.00	-28.23	7.22	3	Horizontal	344	2.40	-				
PK	7.30806G	57.02	74.00	-16.98	17.24	3	Horizontal	252	1.43	-				

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

21/03/2019

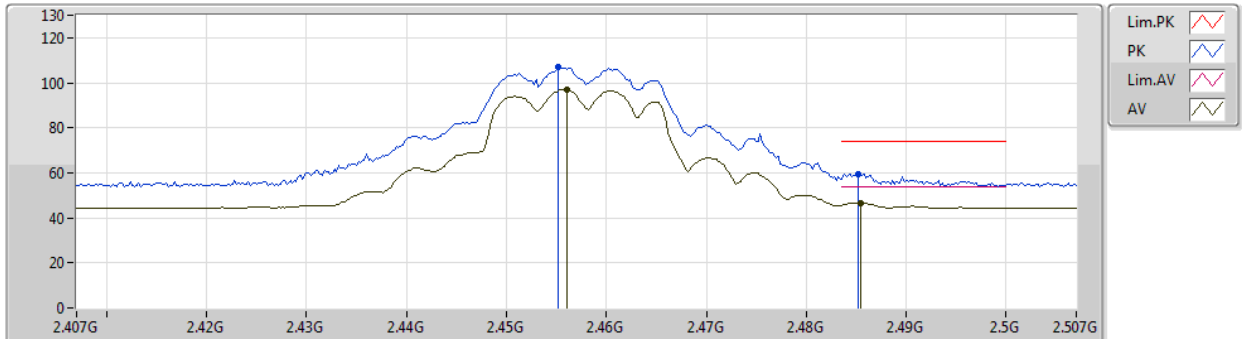


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.4592G	104.55	Inf	-Inf	31.39	3	Vertical	185	1.40	-
AV	2.4846G	53.13	54.00	-0.87	31.36	3	Vertical	185	1.40	-
PK	2.4546G	113.57	Inf	-Inf	31.40	3	Vertical	185	1.40	-
PK	2.4842G	68.66	74.00	-5.34	31.36	3	Vertical	185	1.40	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

21/03/2019

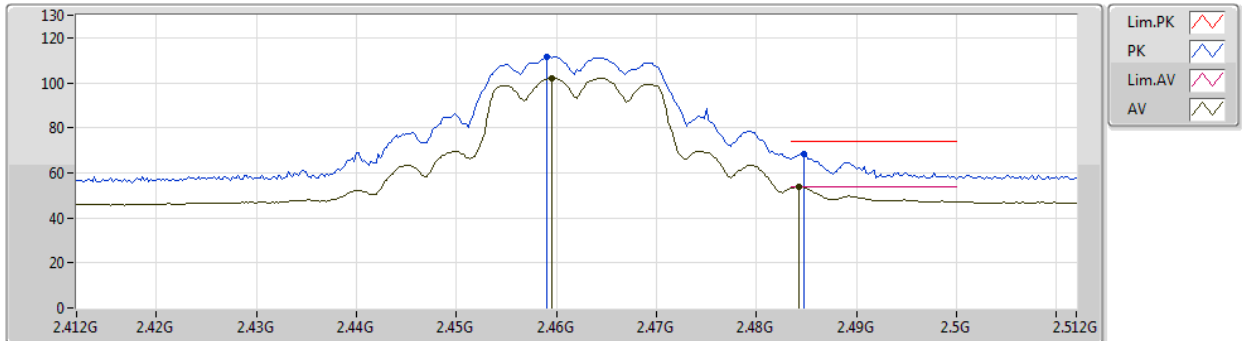


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.456G	97.10	Inf	-Inf	31.40	3	Horizontal	336	1.63	-				
AV	2.4854G	46.62	54.00	-7.38	31.36	3	Horizontal	336	1.63	-				
PK	2.4552G	106.96	Inf	-Inf	31.40	3	Horizontal	336	1.63	-				
PK	2.4852G	59.67	74.00	-14.33	31.36	3	Horizontal	336	1.63	-				

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

21/03/2019

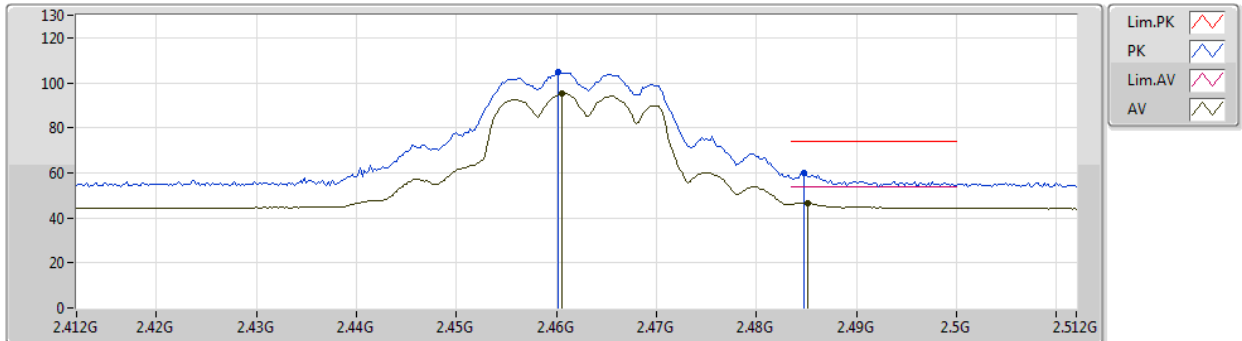


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.4596G	102.18	Inf	-Inf	31.39	3	Vertical	185	1.34	-
AV	2.4842G	53.83	54.00	-0.17	31.36	3	Vertical	185	1.34	-
PK	2.459G	111.47	Inf	-Inf	31.39	3	Vertical	185	1.34	-
PK	2.4848G	68.14	74.00	-5.86	31.36	3	Vertical	185	1.34	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

21/03/2019

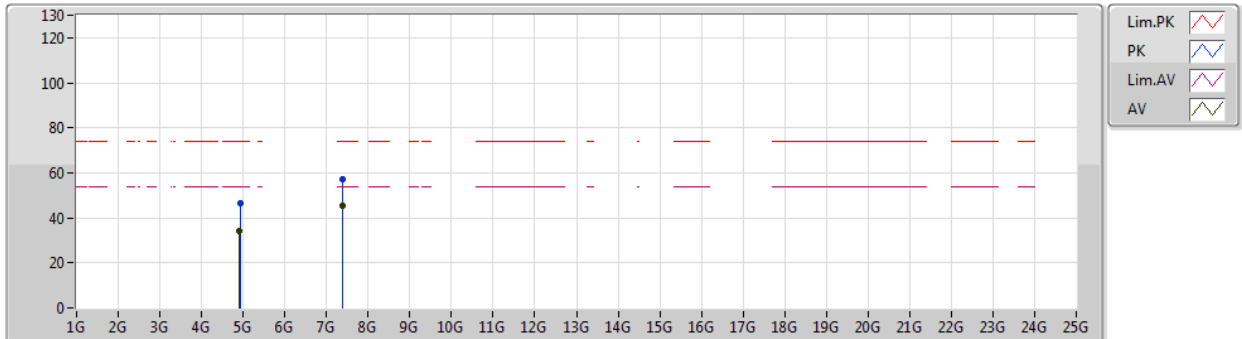


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4606G	95.07	Inf	-Inf	31.39	3	Horizontal	336	1.63	-				
AV	2.4852G	46.40	54.00	-7.60	31.36	3	Horizontal	336	1.63	-				
PK	2.4602G	104.95	Inf	-Inf	31.39	3	Horizontal	336	1.63	-				
PK	2.4848G	59.85	74.00	-14.15	31.36	3	Horizontal	336	1.63	-				

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

22/03/2019

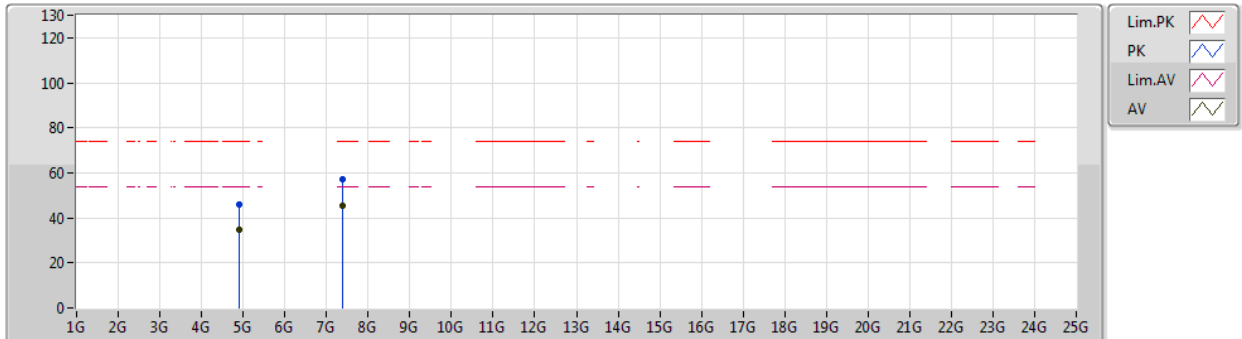


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.91074G	34.38	54.00	-19.62	7.29	3	Vertical	352	2.11	-
AV	7.3797G	45.42	54.00	-8.58	17.87	3	Vertical	326	2.42	-
PK	4.9204G	46.68	74.00	-27.32	7.32	3	Vertical	352	2.11	-
PK	7.37898G	57.31	74.00	-16.69	17.86	3	Vertical	326	2.42	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

22/03/2019

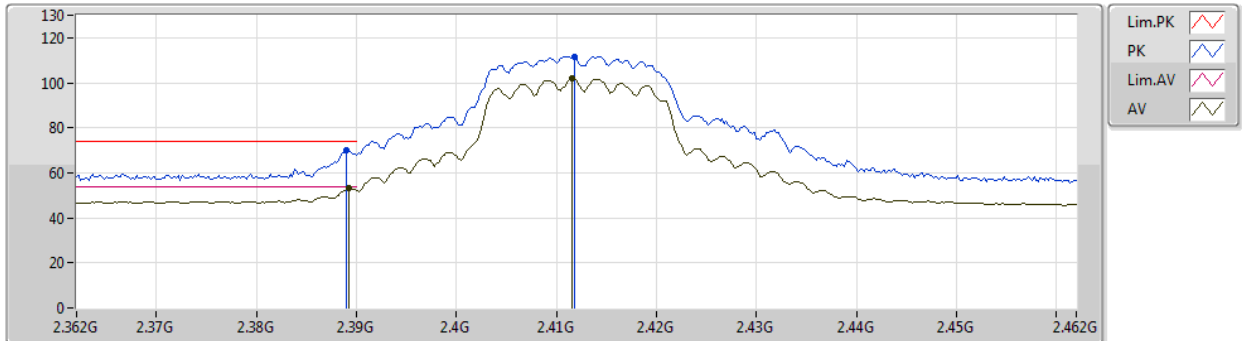


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.91092G	34.60	54.00	-19.40	7.29	3	Horizontal	9	1.31	-				
AV	7.3809G	45.41	54.00	-8.59	17.88	3	Horizontal	137	1.41	-				
PK	4.90996G	45.89	74.00	-28.11	7.28	3	Horizontal	9	1.31	-				
PK	7.37718G	57.15	74.00	-16.85	17.85	3	Horizontal	137	1.41	-				

802.11n HT20_Nss1,(MCS0)_2TX

21/03/2019

2412MHz_TX

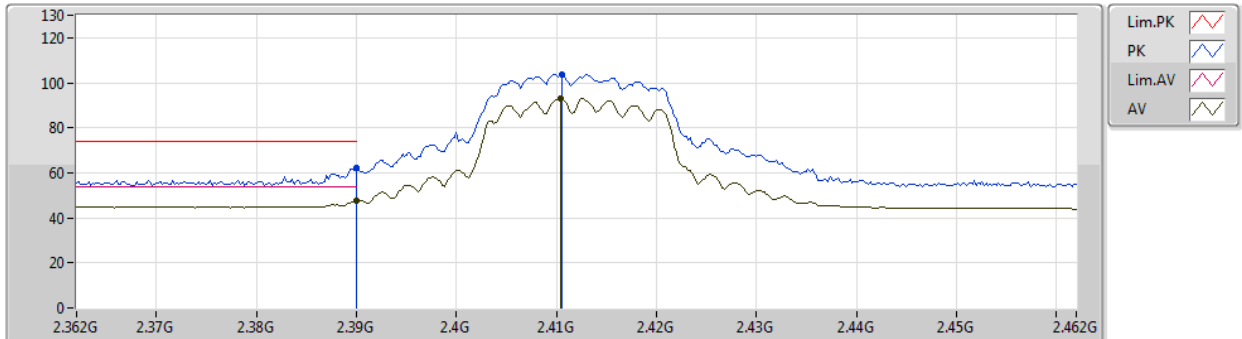


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3892G	53.27	54.00	-0.73	31.50	3	Vertical	20	1.72	-				
AV	2.4116G	102.20	Inf	-Inf	31.46	3	Vertical	20	1.72	-				
PK	2.389G	70.07	74.00	-3.93	31.50	3	Vertical	20	1.72	-				
PK	2.4118G	111.77	Inf	-Inf	31.46	3	Vertical	20	1.72	-				

802.11n HT20_Nss1,(MCS0)_2TX

21/03/2019

2412MHz_TX

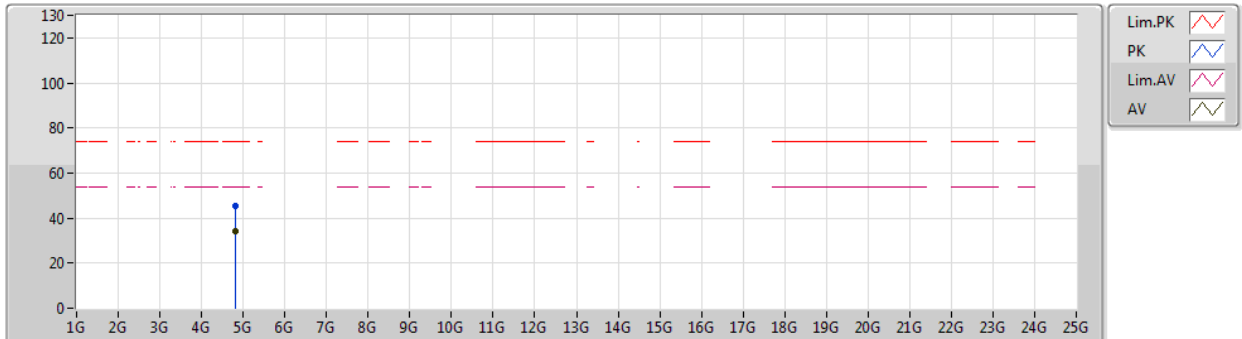


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	47.74	54.00	-6.26	31.50	3	Horizontal	145	2.24	-				
AV	2.4104G	93.10	Inf	-Inf	31.46	3	Horizontal	145	2.24	-				
PK	2.39G	62.11	74.00	-11.89	31.50	3	Horizontal	145	2.24	-				
PK	2.4106G	103.61	Inf	-Inf	31.46	3	Horizontal	145	2.24	-				

802.11n HT20_Nss1,(MCS0)_2TX

22/03/2019

2412MHz_TX

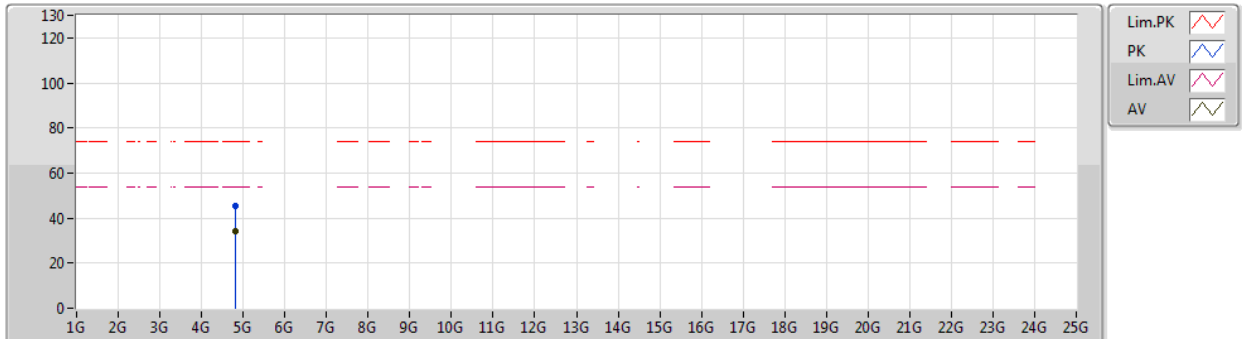


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.81242G	34.00	54.00	-20.00	7.11	3	Vertical	275	2.17	-
PK	4.81368G	45.66	74.00	-28.34	7.11	3	Vertical	275	2.17	-

802.11n HT20_Nss1,(MCS0)_2TX

22/03/2019

2412MHz_TX

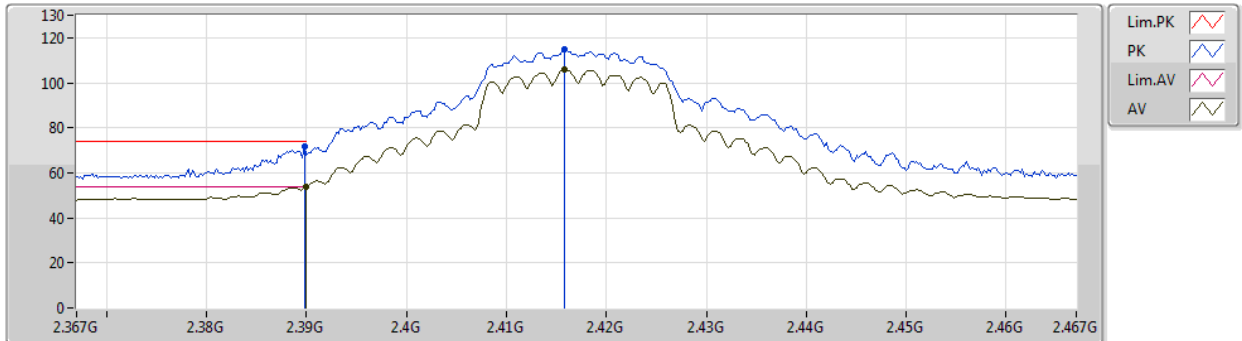


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.80906G	34.15	54.00	-19.85	7.10	3	Horizontal	225	1.79	-
PK	4.81992G	45.43	74.00	-28.57	7.12	3	Horizontal	225	1.79	-

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

22/03/2019

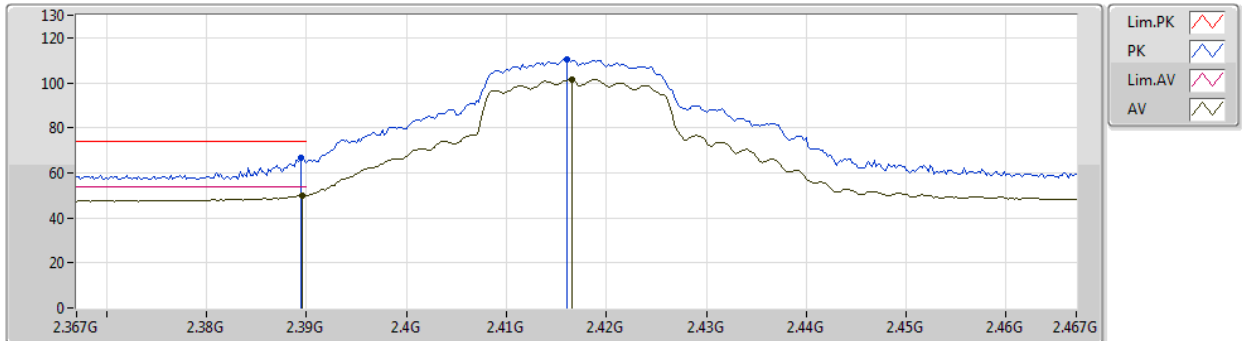


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	53.87	54.00	-0.13	31.50	3	Vertical	47	1.51	-				
AV	2.4158G	105.67	Inf	-Inf	31.45	3	Vertical	47	1.51	-				
PK	2.3898G	71.54	74.00	-2.46	31.50	3	Vertical	47	1.51	-				
PK	2.4158G	114.98	Inf	-Inf	31.45	3	Vertical	47	1.51	-				

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

22/03/2019

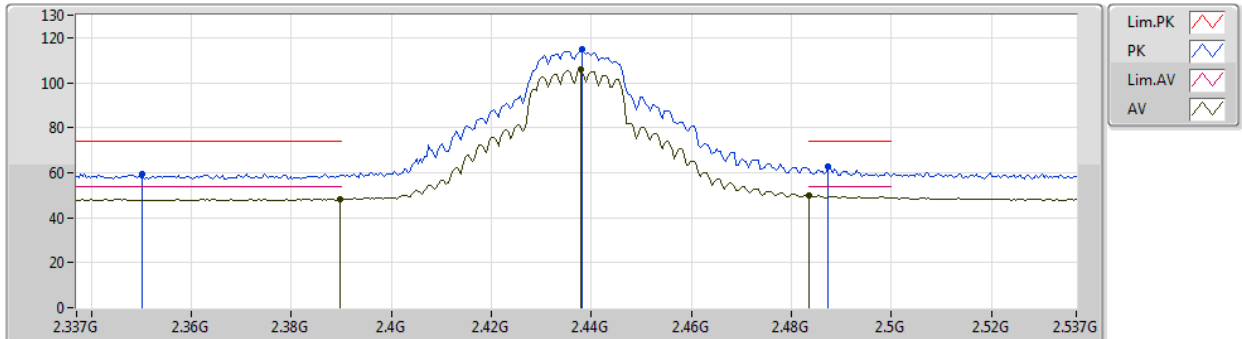


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.3896G	50.01	54.00	-3.99	31.50	3	Horizontal	273	1.39	-
AV	2.4166G	101.62	Inf	-Inf	31.45	3	Horizontal	273	1.39	-
PK	2.3894G	66.66	74.00	-7.34	31.50	3	Horizontal	273	1.39	-
PK	2.416G	110.62	Inf	-Inf	31.45	3	Horizontal	273	1.39	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

22/03/2019

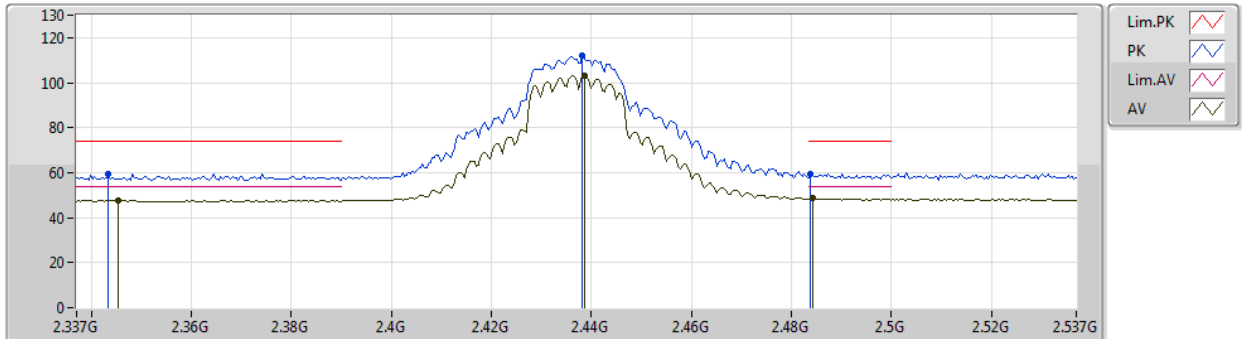


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3898G	48.23	54.00	-5.77	31.50	3	Vertical	185	1.83	-				
AV	2.4378G	106.04	Inf	-Inf	31.42	3	Vertical	185	1.83	-				
AV	2.4835G	49.76	54.00	-4.24	31.36	3	Vertical	185	1.83	-				
PK	2.3502G	59.36	74.00	-14.64	31.64	3	Vertical	185	1.83	-				
PK	2.4382G	114.79	Inf	-Inf	31.42	3	Vertical	185	1.83	-				
PK	2.4874G	62.53	74.00	-11.47	31.36	3	Vertical	185	1.83	-				

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

22/03/2019

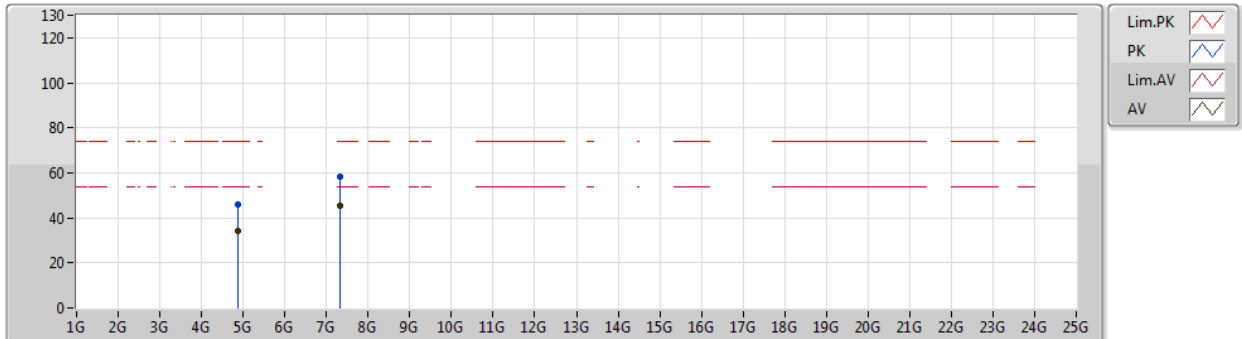


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.3454G	47.66	54.00	-6.34	31.65	3	Horizontal	144	1.40	-
AV	2.4386G	103.25	Inf	-Inf	31.42	3	Horizontal	144	1.40	-
AV	2.4842G	48.57	54.00	-5.43	31.36	3	Horizontal	144	1.40	-
PK	2.3434G	59.44	74.00	-14.56	31.66	3	Horizontal	144	1.40	-
PK	2.4382G	112.17	Inf	-Inf	31.42	3	Horizontal	144	1.40	-
PK	2.4838G	59.66	74.00	-14.34	31.36	3	Horizontal	144	1.40	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

22/03/2019

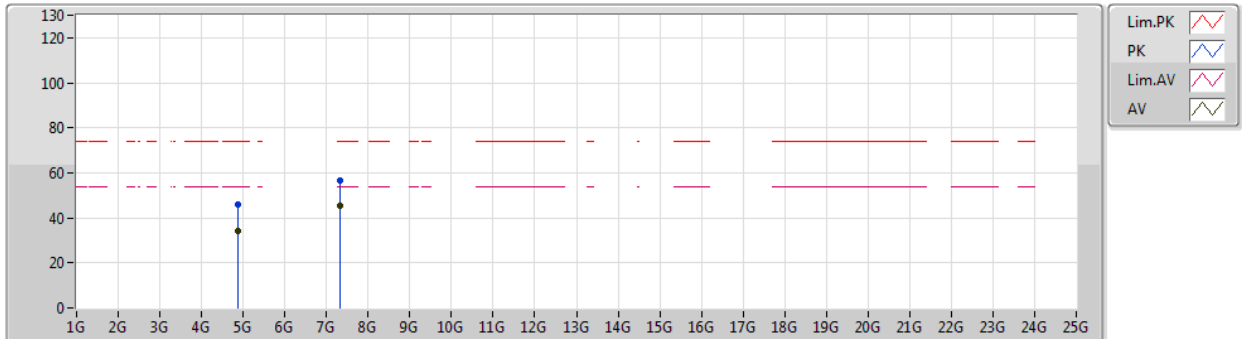


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.86044G	34.19	54.00	-19.81	7.19	3	Vertical	153	1.51	-
AV	7.31208G	45.27	54.00	-8.73	17.28	3	Vertical	61	1.18	-
PK	4.86476G	45.69	74.00	-28.31	7.19	3	Vertical	153	1.51	-
PK	7.31724G	58.03	74.00	-15.97	17.32	3	Vertical	61	1.18	-

802.11n HT20_Nss1,(MCS0)_2TX

22/03/2019

2437MHz_TX

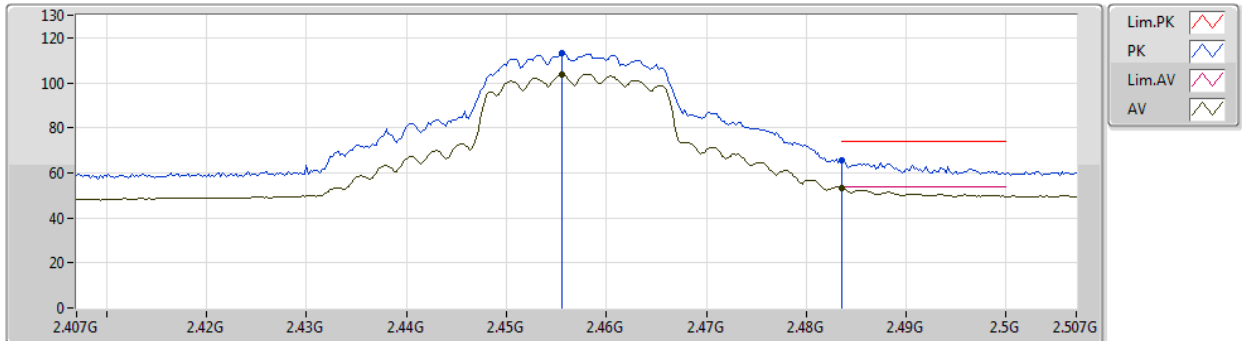


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.8617G	34.09	54.00	-19.91	7.19	3	Horizontal	314	2.21	-
AV	7.31736G	45.32	54.00	-8.68	17.32	3	Horizontal	64	2.33	-
PK	4.88204G	45.84	74.00	-28.16	7.22	3	Horizontal	2.33	2.21	-
PK	7.31868G	56.84	74.00	-17.16	17.34	3	Horizontal	64	2.33	-

802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

22/03/2019

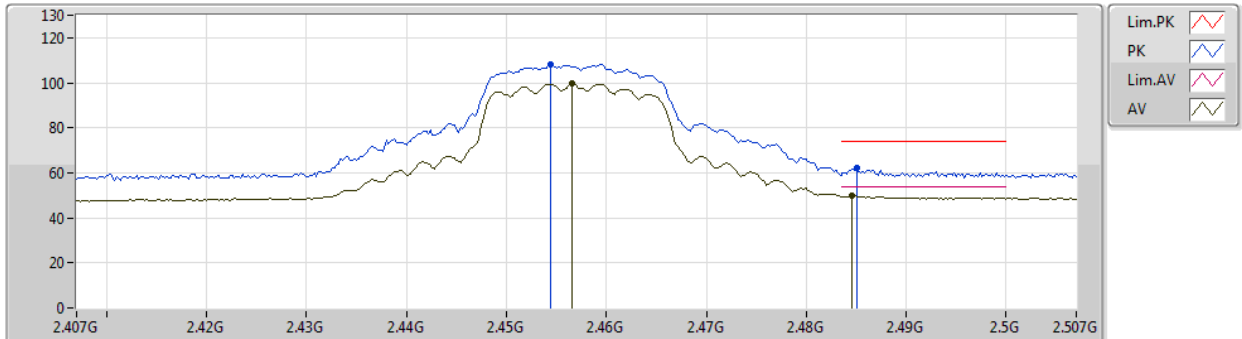


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4556G	103.65	Inf	-Inf	31.40	3	Vertical	275	2.57	-				
AV	2.4835G	53.50	54.00	-0.50	31.36	3	Vertical	275	2.57	-				
PK	2.4556G	113.08	Inf	-Inf	31.40	3	Vertical	275	2.57	-				
PK	2.4835G	65.47	74.00	-8.53	31.36	3	Vertical	275	2.57	-				

802.11n HT20_Nss1,(MCS0)_2TX

22/03/2019

2457MHz_TX

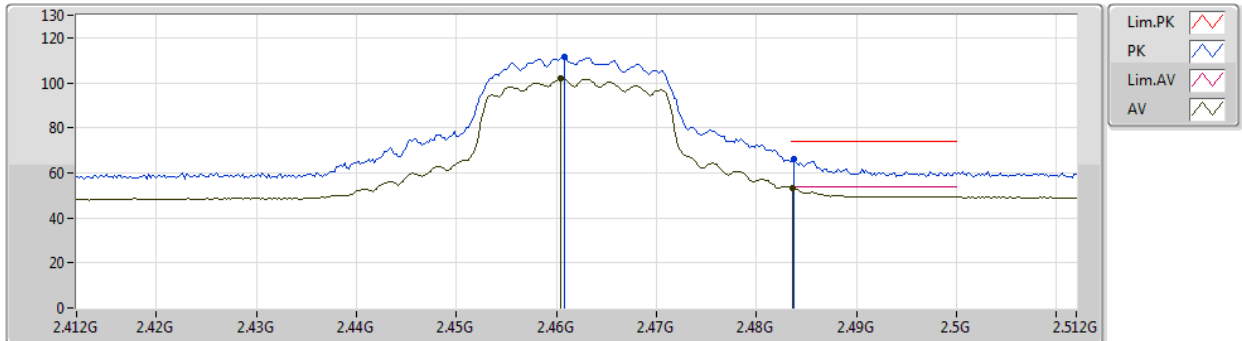


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.4566G	99.48	Inf	-Inf	31.40	3	Horizontal	279	1.55	-
AV	2.4846G	49.76	54.00	-4.24	31.36	3	Horizontal	279	1.55	-
PK	2.4544G	108.12	Inf	-Inf	31.40	3	Horizontal	279	1.55	-
PK	2.485G	62.02	74.00	-11.98	31.36	3	Horizontal	279	1.55	-

802.11n HT20_Nss1,(MCS0)_2TX

22/03/2019

2462MHz_TX

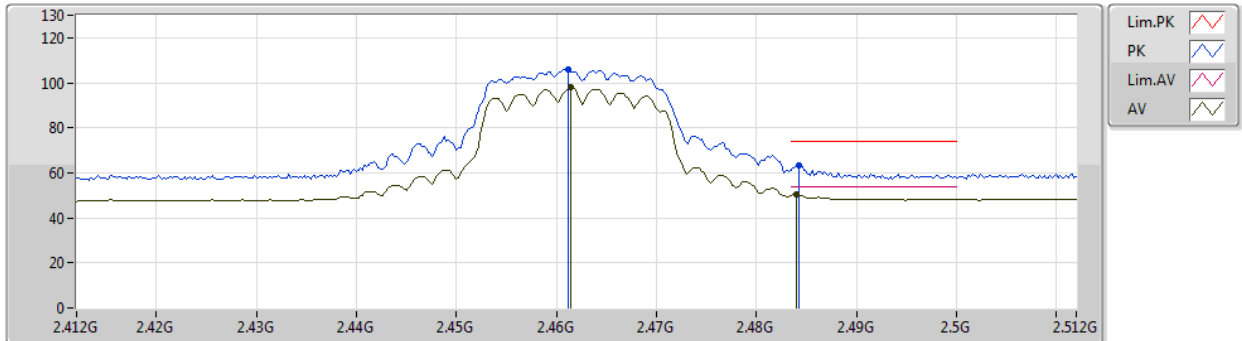


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4604G	101.83	Inf	-Inf	31.39	3	Vertical	289	2.15	-				
AV	2.4836G	53.50	54.00	-0.50	31.36	3	Vertical	289	2.15	-				
PK	2.4608G	111.23	Inf	-Inf	31.39	3	Vertical	289	2.15	-				
PK	2.4838G	65.88	74.00	-8.12	31.36	3	Vertical	289	2.15	-				

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

22/03/2019

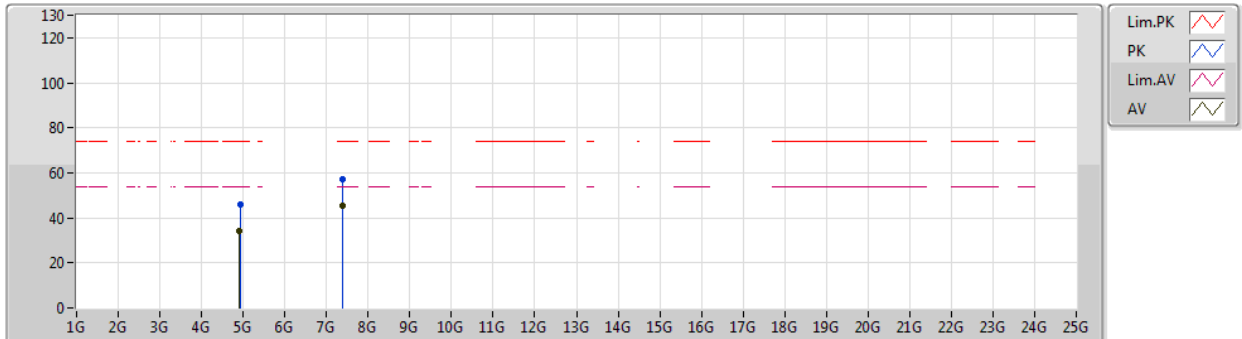


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4614G	97.90	Inf	-Inf	31.39	3	Horizontal	147	1.62	-				
AV	2.484G	50.61	54.00	-3.39	31.36	3	Horizontal	147	1.62	-				
PK	2.4612G	106.01	Inf	-Inf	31.39	3	Horizontal	147	1.62	-				
PK	2.4842G	63.09	74.00	-10.91	31.36	3	Horizontal	147	1.62	-				

802.11n HT20_Nss1,(MCS0)_2TX

22/03/2019

2462MHz_TX

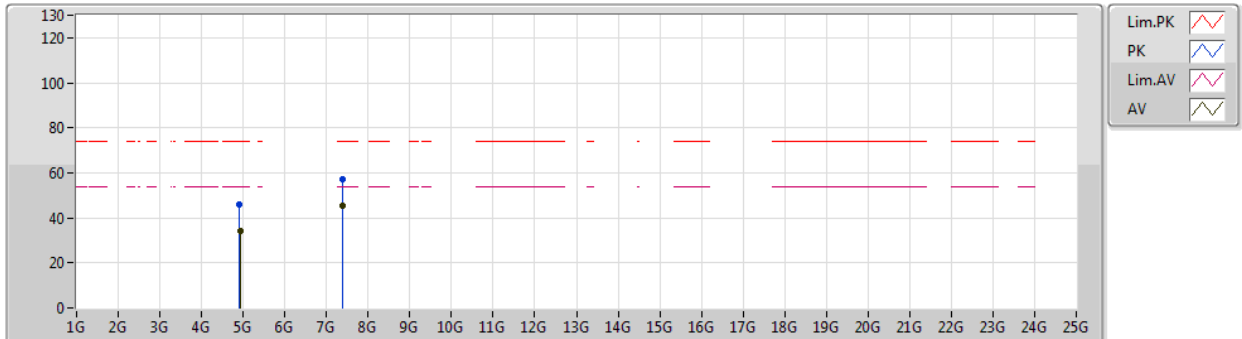


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.9153G	34.23	54.00	-19.77	7.31	3	Vertical	107	1.36	-
AV	7.3818G	45.40	54.00	-8.60	17.88	3	Vertical	203	1.35	-
PK	4.93348G	45.87	74.00	-28.13	7.37	3	Vertical	107	1.36	-
PK	7.39134G	57.20	74.00	-16.80	17.97	3	Vertical	203	1.35	-

802.11n HT20_Nss1,(MCS0)_2TX

22/03/2019

2462MHz_TX

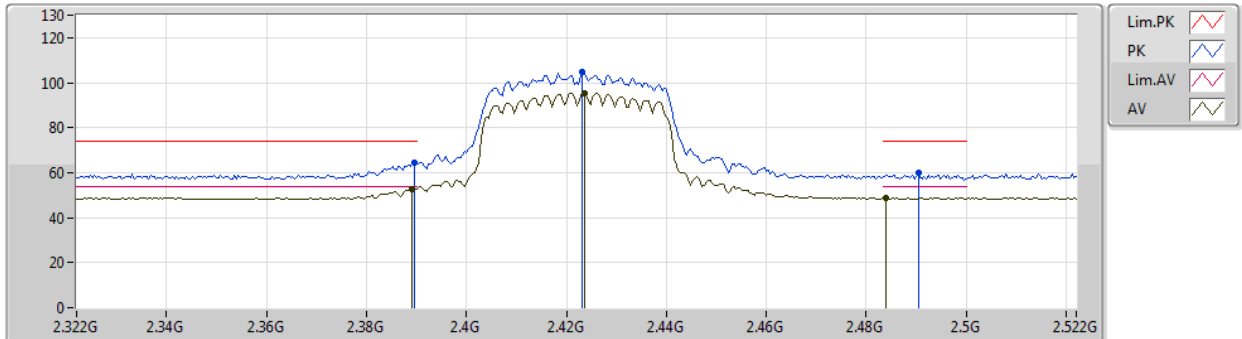


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.93144G	34.28	54.00	-19.72	7.36	3	Horizontal	182	1.99	-
AV	7.3761G	45.33	54.00	-8.67	17.83	3	Horizontal	306	1.71	-
PK	4.91068G	46.02	74.00	-27.98	7.29	3	Horizontal	182	1.99	-
PK	7.37136G	57.06	74.00	-16.94	17.79	3	Horizontal	306	1.71	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

22/03/2019

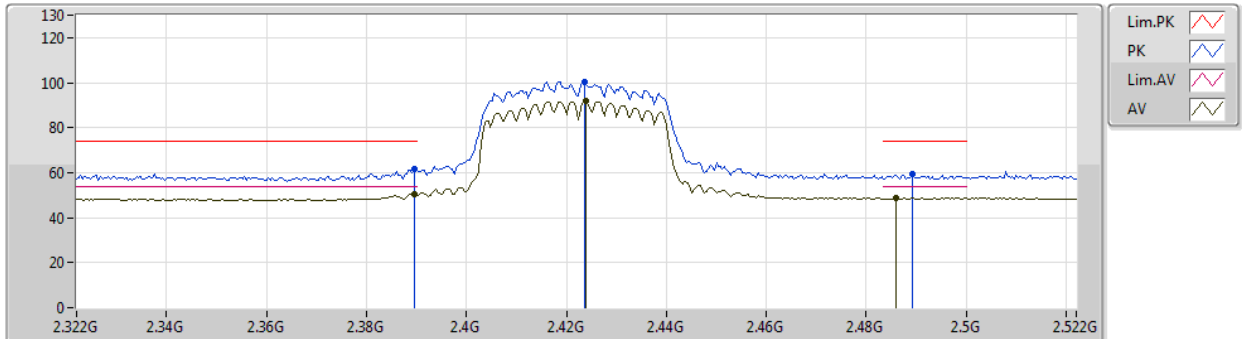


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.3892G	52.90	54.00	-1.10	31.50	3	Vertical	47	1.13	-
AV	2.4236G	95.43	Inf	-Inf	31.44	3	Vertical	47	1.13	-
AV	2.484G	48.81	54.00	-5.19	31.36	3	Vertical	47	1.13	-
PK	2.3896G	64.60	74.00	-9.40	31.50	3	Vertical	47	1.13	-
PK	2.4232G	104.87	Inf	-Inf	31.44	3	Vertical	47	1.13	-
PK	2.4904G	59.79	74.00	-14.21	31.35	3	Vertical	47	1.13	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

22/03/2019

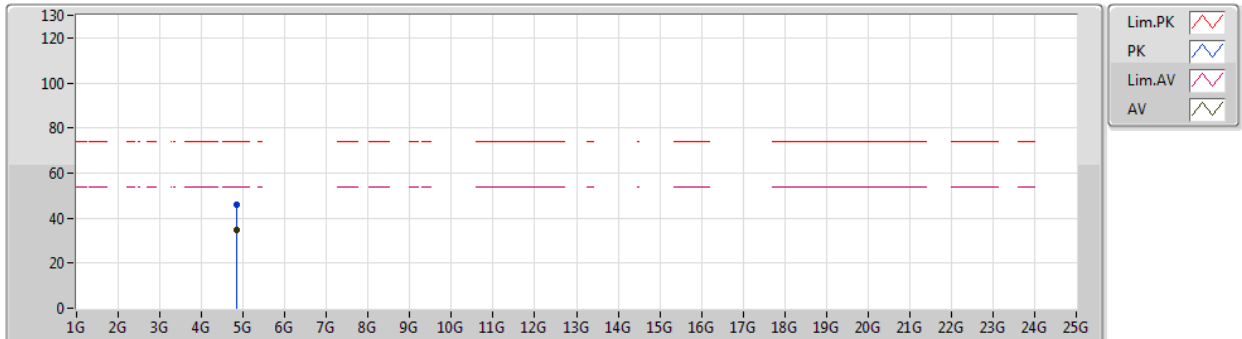


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.3896G	50.40	54.00	-3.60	31.50	3	Horizontal	147	1.47	-
AV	2.424G	91.65	Inf	-Inf	31.44	3	Horizontal	147	1.47	-
AV	2.486G	48.56	54.00	-5.44	31.36	3	Horizontal	147	1.47	-
PK	2.3896G	61.83	74.00	-12.17	31.50	3	Horizontal	147	1.47	-
PK	2.4236G	100.57	Inf	-Inf	31.44	3	Horizontal	147	1.47	-
PK	2.4892G	59.16	74.00	-14.84	31.35	3	Horizontal	147	1.47	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

22/03/2019

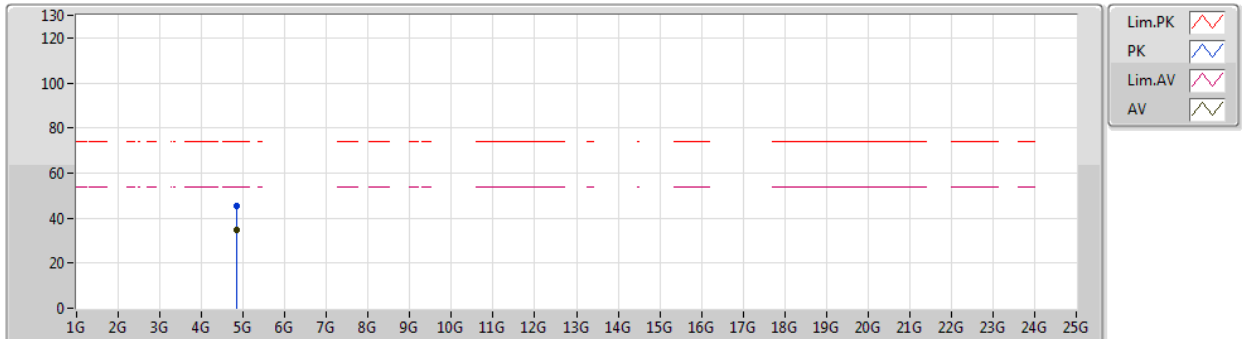


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.85486G	34.95	54.00	-19.05	7.18	3	Vertical	200	1.12	-
PK	4.85294G	45.87	74.00	-28.13	7.18	3	Vertical	200	1.12	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

22/03/2019

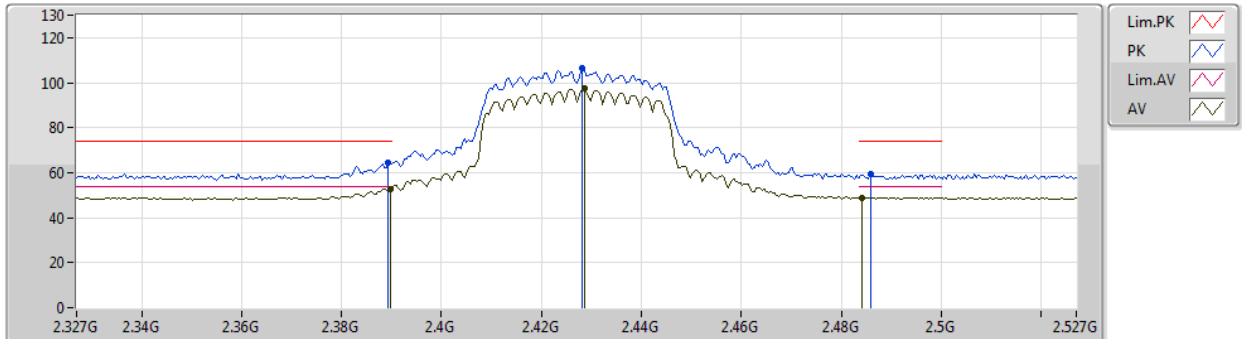


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.84514G	34.87	54.00	-19.13	7.16	3	Horizontal	108	1.15	-
PK	4.84772G	45.66	74.00	-28.34	7.16	3	Horizontal	108	1.15	-

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

22/03/2019

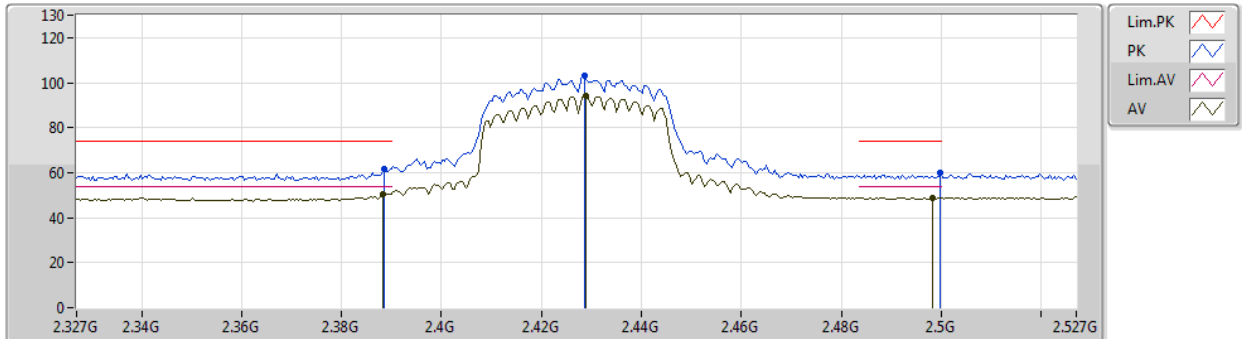


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.3898G	52.90	54.00	-1.10	31.50	3	Vertical	47	1.12	-
AV	2.4286G	97.24	Inf	-Inf	31.43	3	Vertical	47	1.12	-
AV	2.4842G	48.82	54.00	-5.18	31.36	3	Vertical	47	1.12	-
PK	2.3894G	64.30	74.00	-9.70	31.50	3	Vertical	47	1.12	-
PK	2.4282G	106.64	Inf	-Inf	31.43	3	Vertical	47	1.12	-
PK	2.4858G	59.32	74.00	-14.68	31.36	3	Vertical	47	1.12	-

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

22/03/2019

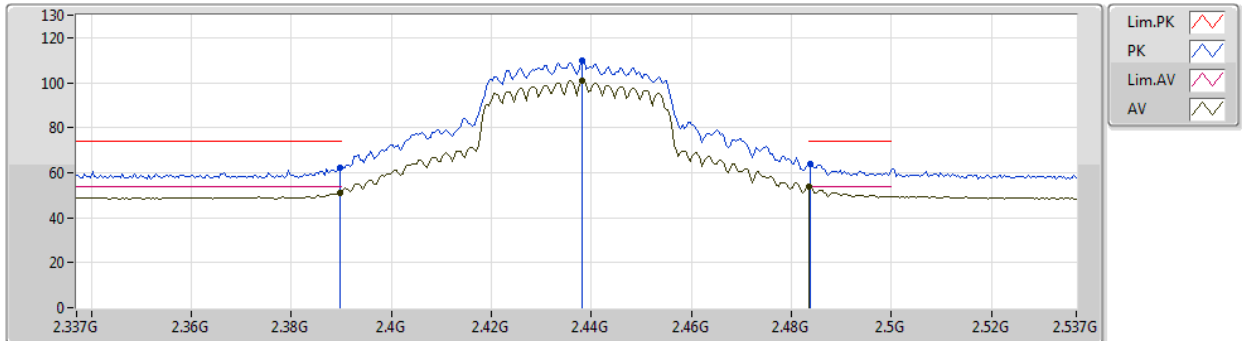


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3882G	50.59	54.00	-3.41	31.51	3	Horizontal	146	1.37	-				
AV	2.429G	94.11	Inf	-Inf	31.43	3	Horizontal	146	1.37	-				
AV	2.4982G	48.80	54.00	-5.20	31.34	3	Horizontal	146	1.37	-				
PK	2.3886G	61.68	74.00	-12.32	31.51	3	Horizontal	146	1.37	-				
PK	2.4286G	103.08	Inf	-Inf	31.43	3	Horizontal	146	1.37	-				
PK	2.4998G	59.85	74.00	-14.15	31.34	3	Horizontal	146	1.37	-				

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

22/03/2019

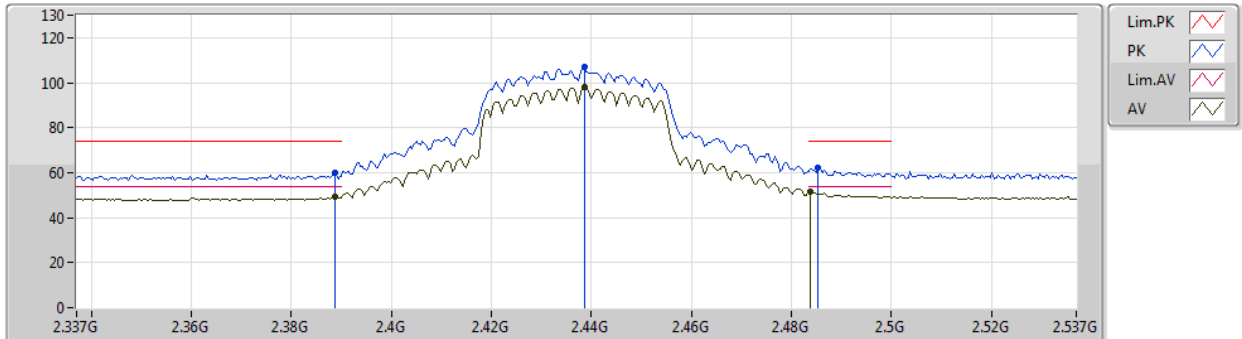


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3898G	50.96	54.00	-3.04	31.50	3	Vertical	50	1.18	-				
AV	2.4382G	100.68	Inf	-Inf	31.42	3	Vertical	50	1.18	-				
AV	2.4835G	53.92	54.00	-0.08	31.36	3	Vertical	50	1.18	-				
PK	2.3898G	62.17	74.00	-11.83	31.50	3	Vertical	50	1.18	-				
PK	2.4382G	109.93	Inf	-Inf	31.42	3	Vertical	50	1.18	-				
PK	2.4838G	63.75	74.00	-10.25	31.36	3	Vertical	50	1.18	-				

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

22/03/2019

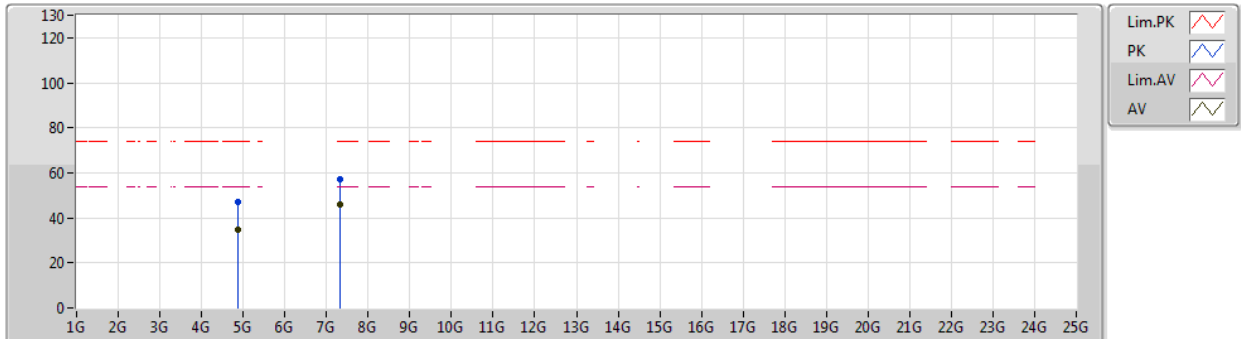


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.3886G	49.16	54.00	-4.84	31.51	3	Horizontal	145	1.41	-
AV	2.4386G	97.91	Inf	-Inf	31.42	3	Horizontal	145	1.41	-
AV	2.4838G	51.74	54.00	-2.26	31.36	3	Horizontal	145	1.41	-
PK	2.3886G	59.72	74.00	-14.28	31.51	3	Horizontal	145	1.41	-
PK	2.4386G	107.02	Inf	-Inf	31.42	3	Horizontal	145	1.41	-
PK	2.4854G	62.13	74.00	-11.87	31.36	3	Horizontal	145	1.41	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

22/03/2019

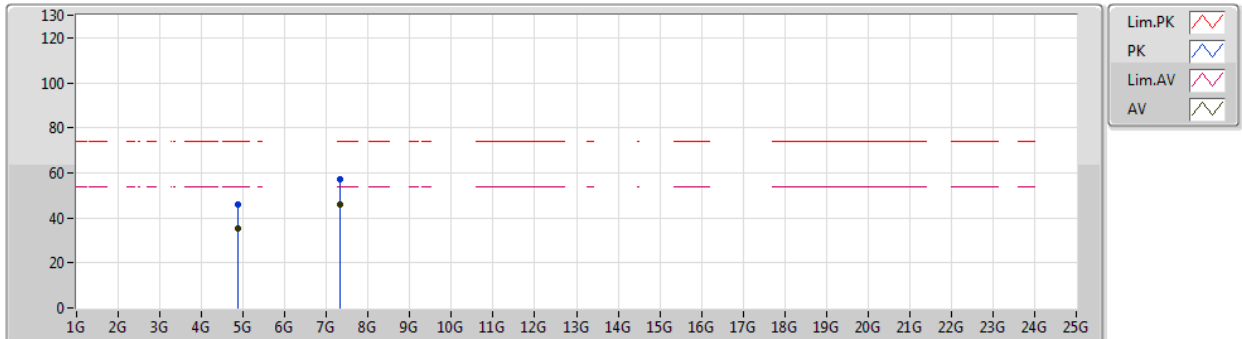


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.85906G	34.83	54.00	-19.17	7.19	3	Vertical	126	1.73	-				
AV	7.31154G	46.09	54.00	-7.91	17.27	3	Vertical	298	1.55	-				
PK	4.86224G	46.85	74.00	-27.15	7.19	3	Vertical	126	1.73	-				
PK	7.31052G	57.02	74.00	-16.98	17.26	3	Vertical	298	1.55	-				

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

22/03/2019

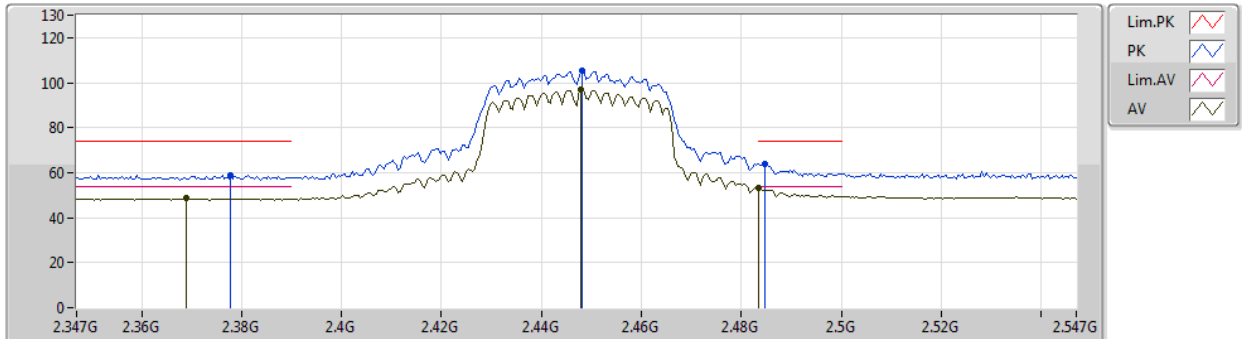


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.87196G	35.09	54.00	-18.91	7.21	3	Horizontal	200	1.65	-
AV	7.31658G	46.06	54.00	-7.94	17.32	3	Horizontal	119	2.19	-
PK	4.87874G	45.86	74.00	-28.14	7.22	3	Horizontal	200	1.65	-
PK	7.31526G	57.21	74.00	-16.79	17.30	3	Horizontal	119	2.25	-

802.11n HT40_Nss1,(MCS0)_2TX

22/03/2019

2447MHz_TX

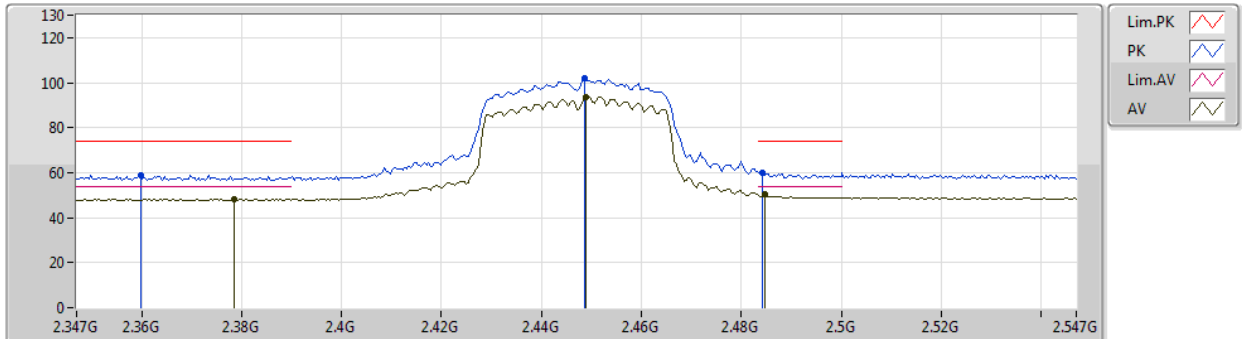


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.369G	48.72	54.00	-5.28	31.57	3	Vertical	186	1.50	-
AV	2.4478G	96.67	Inf	-Inf	31.40	3	Vertical	186	1.50	-
AV	2.4835G	53.50	54.00	-0.50	31.36	3	Vertical	186	1.50	-
PK	2.3778G	59.05	74.00	-14.95	31.54	3	Vertical	186	1.50	-
PK	2.4482G	105.39	Inf	-Inf	31.40	3	Vertical	186	1.50	-
PK	2.4846G	64.00	74.00	-10.00	31.36	3	Vertical	186	1.50	-

802.11n HT40_Nss1,(MCS0)_2TX

2447MHz_TX

22/03/2019

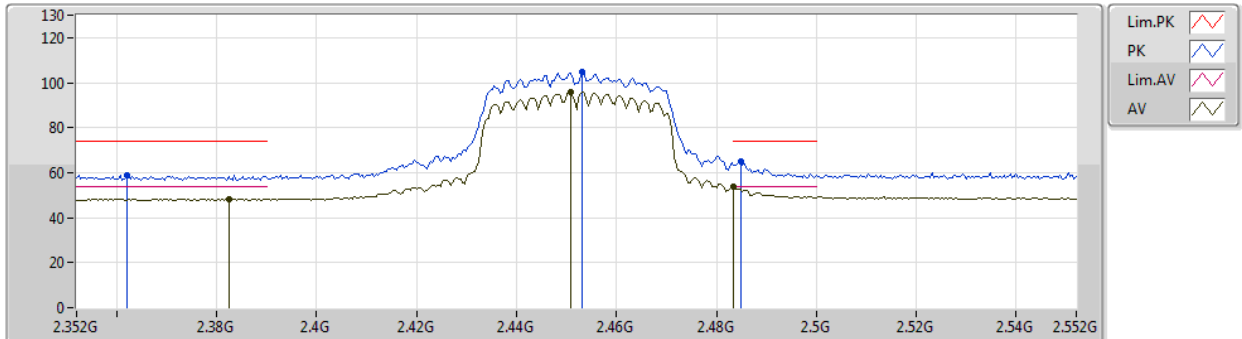


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.3786G	48.21	54.00	-5.79	31.55	3	Horizontal	279	1.52	-
AV	2.449G	93.70	Inf	-Inf	31.40	3	Horizontal	279	1.52	-
AV	2.4846G	50.40	54.00	-3.60	31.36	3	Horizontal	279	1.52	-
PK	2.3598G	59.04	74.00	-14.96	31.60	3	Horizontal	279	1.52	-
PK	2.4486G	101.87	Inf	-Inf	31.40	3	Horizontal	279	1.52	-
PK	2.4842G	60.12	74.00	-13.88	31.36	3	Horizontal	279	1.52	-

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

22/03/2019

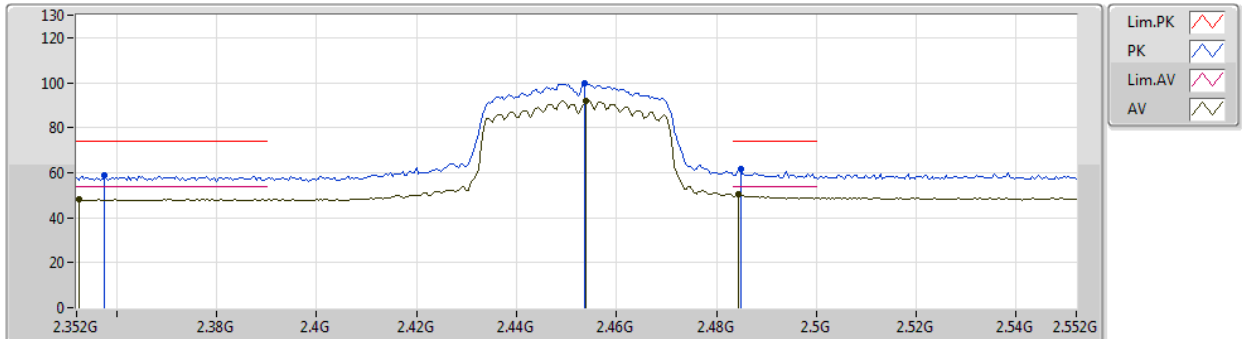


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3824G	48.44	54.00	-5.56	31.53	3	Vertical	59	1.09	-				
AV	2.4508G	95.74	Inf	-Inf	31.41	3	Vertical	59	1.09	-				
AV	2.4835G	53.64	54.00	-0.36	31.36	3	Vertical	59	1.09	-				
PK	2.362G	58.82	74.00	-15.18	31.59	3	Vertical	59	1.09	-				
PK	2.4532G	104.58	Inf	-Inf	31.40	3	Vertical	59	1.09	-				
PK	2.4848G	64.86	74.00	-9.14	31.36	3	Vertical	59	1.09	-				

802.11n HT40_Nss1,(MCS0)_2TX

22/03/2019

2452MHz_TX

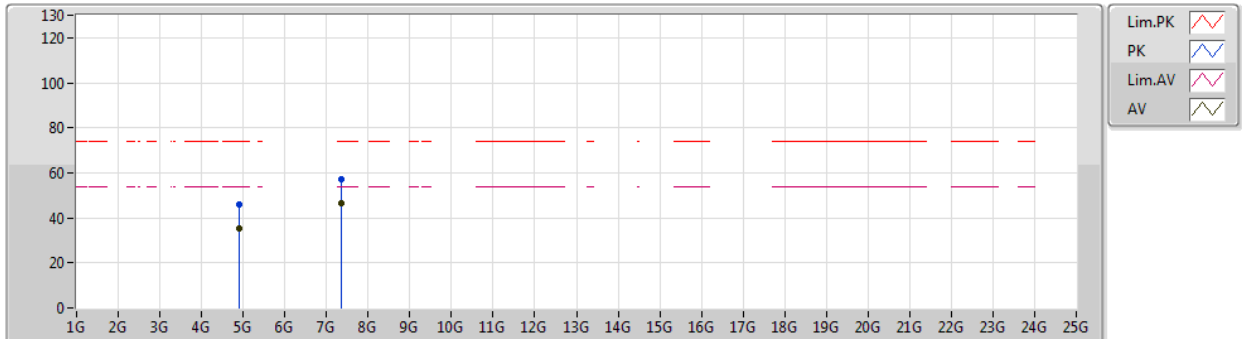


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3524G	48.10	54.00	-5.90	31.63	3	Horizontal	279	1.54	-				
AV	2.454G	91.88	Inf	-Inf	31.40	3	Horizontal	279	1.54	-				
AV	2.4844G	50.19	54.00	-3.81	31.36	3	Horizontal	279	1.54	-				
PK	2.3576G	58.57	74.00	-15.43	31.61	3	Horizontal	279	1.54	-				
PK	2.4536G	99.69	Inf	-Inf	31.40	3	Horizontal	279	1.54	-				
PK	2.4848G	61.81	74.00	-12.19	31.36	3	Horizontal	279	1.54	-				

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

22/03/2019

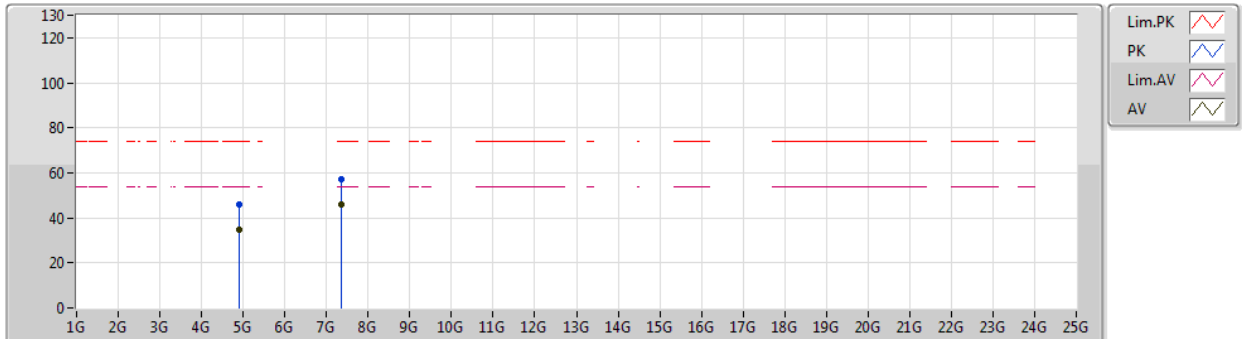


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.9061G	35.26	54.00	-18.74	7.27	3	Vertical	213	1.10	-
AV	7.3662G	46.30	54.00	-7.70	17.75	3	Vertical	217	1.57	-
PK	4.9121G	45.94	74.00	-28.06	7.30	3	Vertical	213	1.10	-
PK	7.37004G	57.07	74.00	-16.93	17.78	3	Vertical	217	1.57	-

802.11n HT40_Nss1,(MCS0)_2TX

22/03/2019

2452MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.90874G	34.99	54.00	-19.01	7.28	3	Horizontal	180	1.56	-				
AV	7.35408G	46.11	54.00	-7.89	17.65	3	Horizontal	97	1.92	-				
PK	4.89656G	46.12	74.00	-27.88	7.25	3	Horizontal	180	1.56	-				
PK	7.36602G	57.35	74.00	-16.65	17.75	3	Horizontal	97	1.92	-				

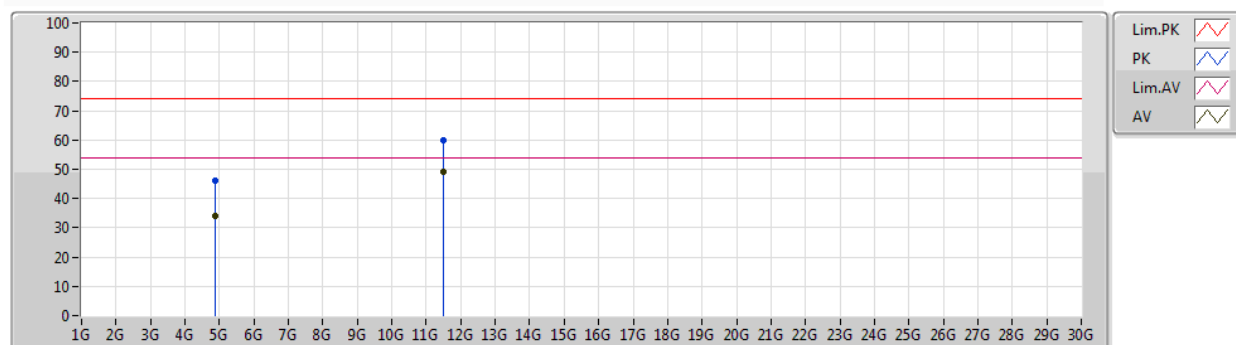


Summary

Mode	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Condition	Azimuth (°)	Height (m)
Mode 1	AV	11.5895G	47.53	54.00	-6.47	14.92	Horizontal	103	2.56

Mode 1

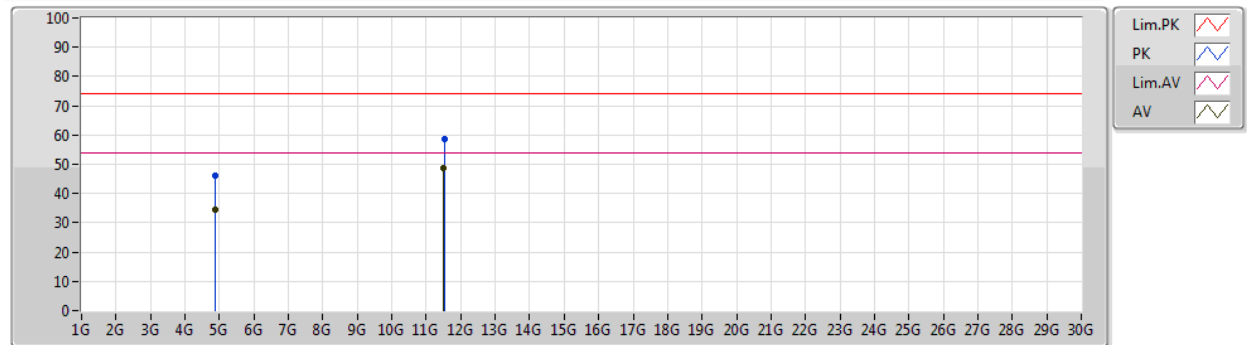
28/03/2019



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.8892G	34.22	54.00	-19.78	6.67	3	Vertical	323	1.14	-				
AV	11.5086G	49.02	54.00	-4.98	17.17	3	Vertical	307	1.01	-				
PK	4.8874G	45.92	74.00	-28.08	6.67	3	Vertical	323	1.14	-				
PK	11.5098G	60.01	74.00	-13.99	17.17	3	Vertical	307	1.01	-				

Mode 1

28/03/2019



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.8893G	34.31	54.00	-19.69	6.67	3	Horizontal	177	1.40	-				
AV	11.5099G	48.84	54.00	-5.16	17.17	3	Horizontal	40	1.49	-				
PK	4.8889G	45.98	74.00	-28.02	6.67	3	Horizontal	177	1.40	-				
PK	11.5192G	58.44	74.00	-15.56	17.17	3	Horizontal	40	1.49	-				