

FCC Test Report

FCC ID : SWX-M11DB
Equipment : WiFi Dual Band Module
Brand Name : UBIQUITI
Model Name : 1x1-DB
Applicant/
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 May 03, 2018, and testing was started from May 10, 2018 and completed on May 12, 2018. 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.)



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History of this test report

Report No.	Version	Description	Issued Date
FR661621-02AC	01	Initial issue of report	Jun. 08, 2018

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

Reviewed by: Jeremy Lin

Report Producer: Jenny Yang

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	-	-	Internal antenna	i-Pex
2	-	-	internal antenna	i-Pex

Ant.	Port	Gain (dBi)	
		2.4G	5G
1	1	4	4
2	1	-	8

Note 1: The EUT has two antennas.

For 2.4 GHz function:

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

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

For 5GHz function:

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

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

1.1.3 EUT Information

Identify EUT			
RF chip	QCA9889		
Operational Condition			
EUT Power Type	From PoE		
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	0.994	0.026	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	0.962	0.168	2.066m	1k
802.11n HT20	0.957	0.191	1.934m	1k

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 v04

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
RF Conducted	TH01-HY	Randy	24.5°C / 66%	11/May/2018
Radiated	03CH03-HY	Jeff	23.2°C / 52%	12/May/2018
AC Conduction	CO04-HY	Kevin	22.2°C / 51.8%	11/May/2018

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)	3.6 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.0 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 Version	QDART V3.0.239
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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	PoE 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	PoE 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
Operating Mode	CTX
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA661621-02 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 NB	DELL	HA65NM130	DoC
3	Test Fixture	-	UAP-XG	-

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

Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	PoE (remote)	UBNT	-	-
2	Test Fixture	-	-	-

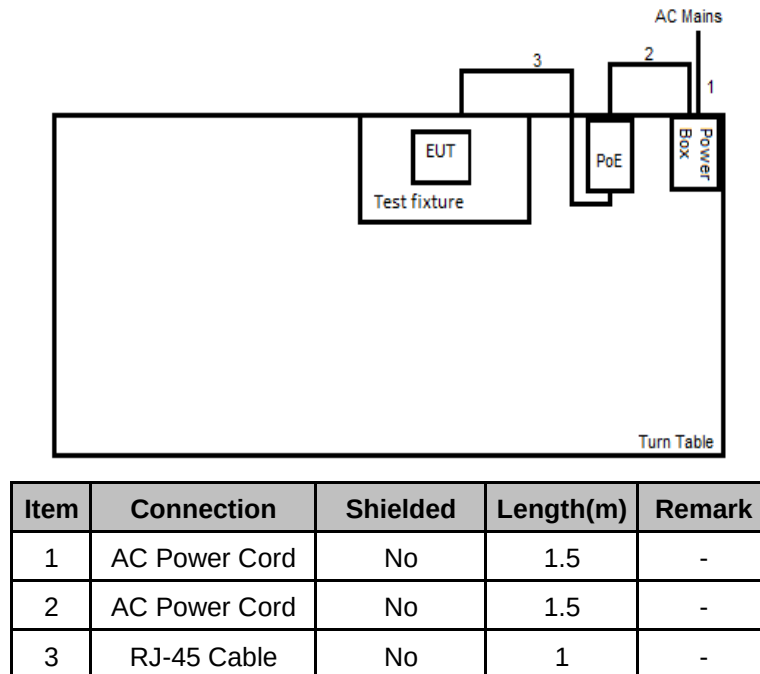
Note: Support equipment No.1 was provided by customer.

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	PoE	UBNT	-	-
2	Test Fixture	-	-	-

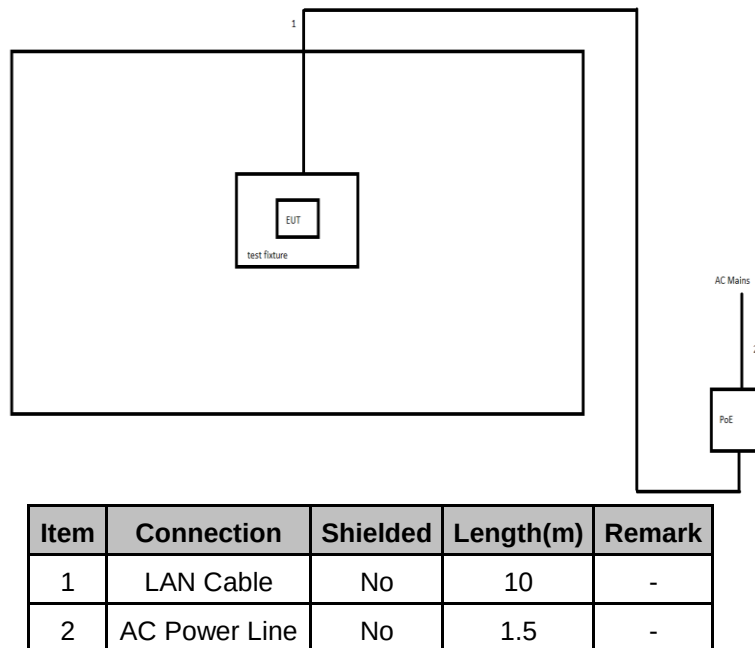
Note: Support equipment No.1 was provided by customer.

2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Test Setup Diagram - Radiated Test



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.

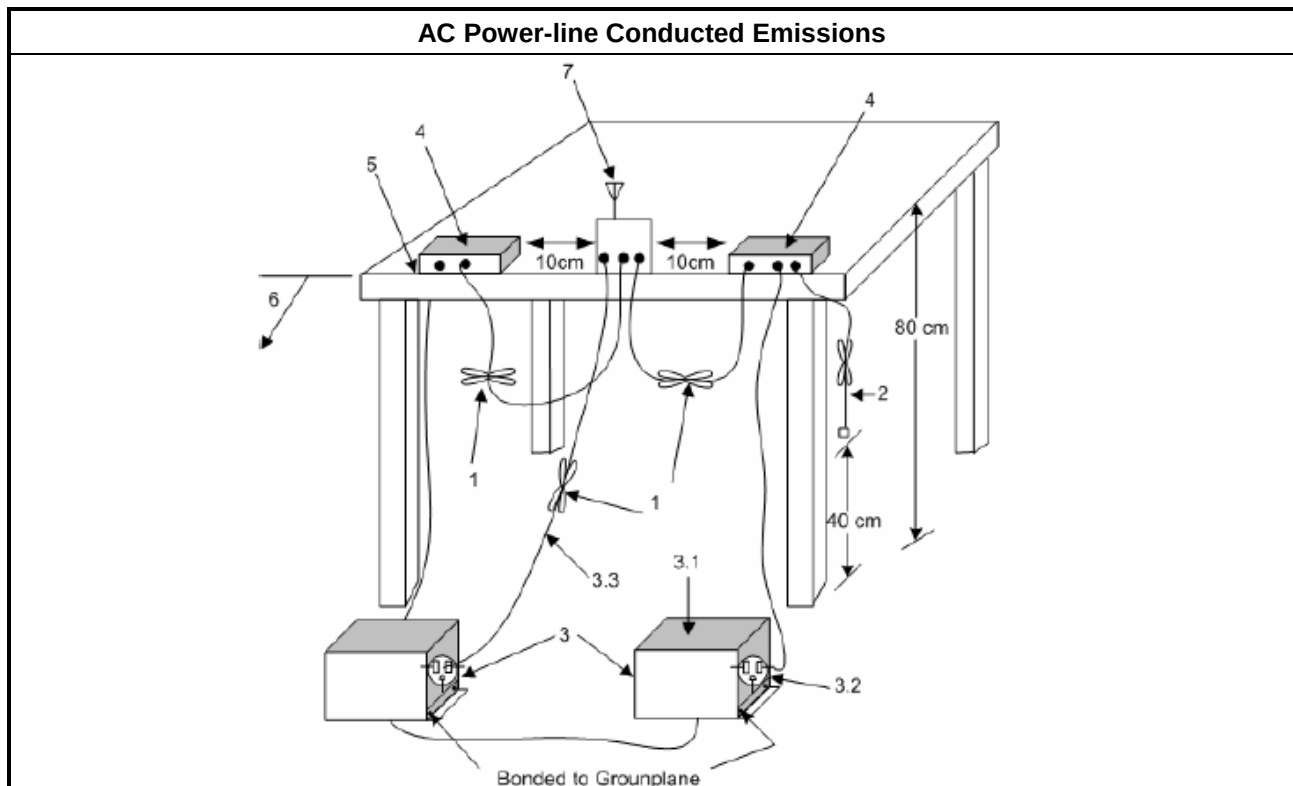
3.1.2 Measuring Instruments

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.

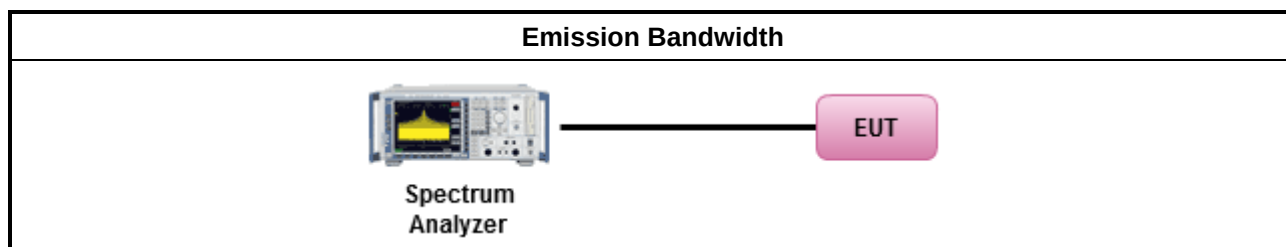
3.2.2 Measuring Instruments

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 8.1 Option 1 for 6 dB bandwidth measurement.
☐	Refer as KDB 558074, clause 8.2 Option 2 for 6 dB 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.		

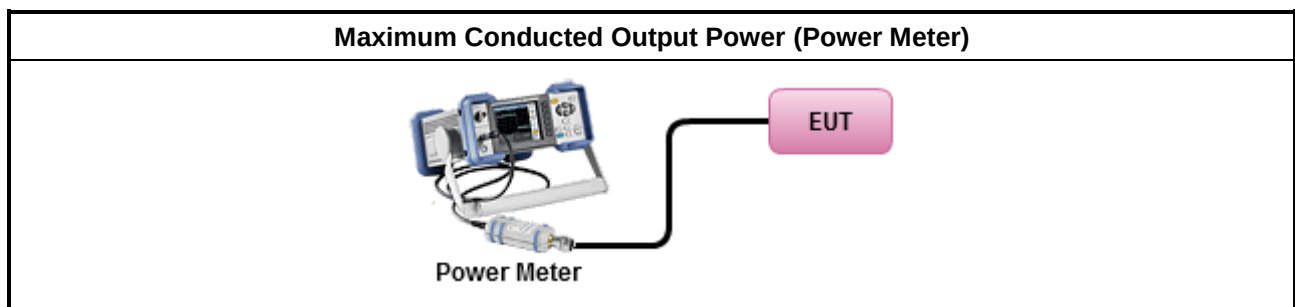
3.3.2 Measuring Instruments

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 9.1.1 Option 1 (RBW ≥ EBW method).
☐	Refer as KDB 558074, clause 9.1.2 Option 2 (integrated band power method)
☐	Refer as KDB 558074, clause 9.1.3 Option 3 (peak power meter for VBW ≥ DTS BW)
Maximum Average Conducted Output Power	
Duty cycle ≥ 98%	
☐	Refer as KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
Duty cycle < 98%	
☐	Refer as KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
RF power meter and average over on/off periods with duty factor or gated trigger	
☒	Refer as KDB 558074, clause 9.2.3.1 Method AVGPM (using an RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

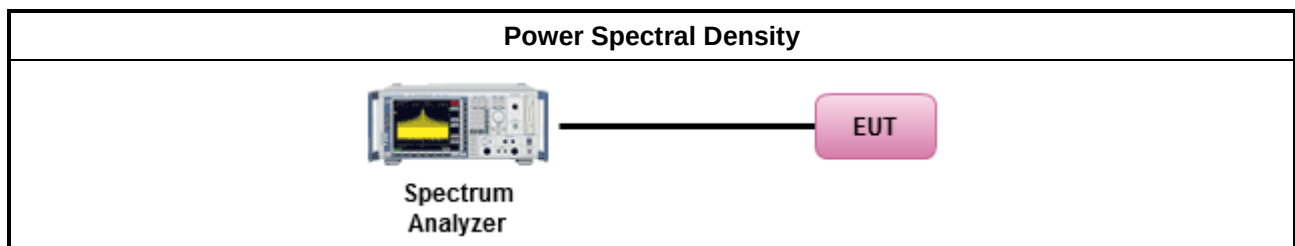
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒	Refer as KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak).
▪	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.	

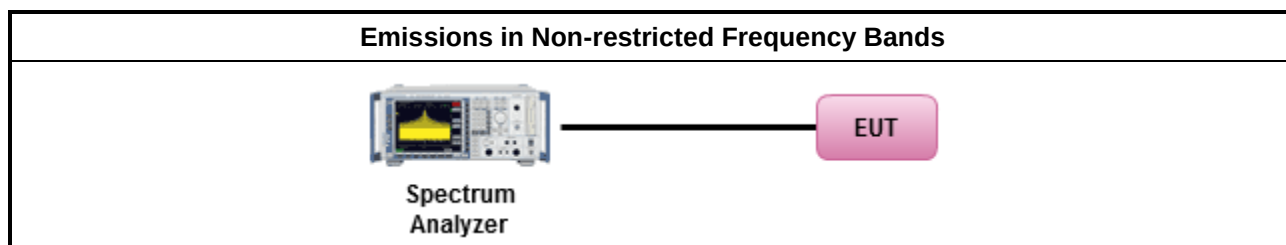
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as KDB 558074, clause 11 for unwanted emissions into non-restricted 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.

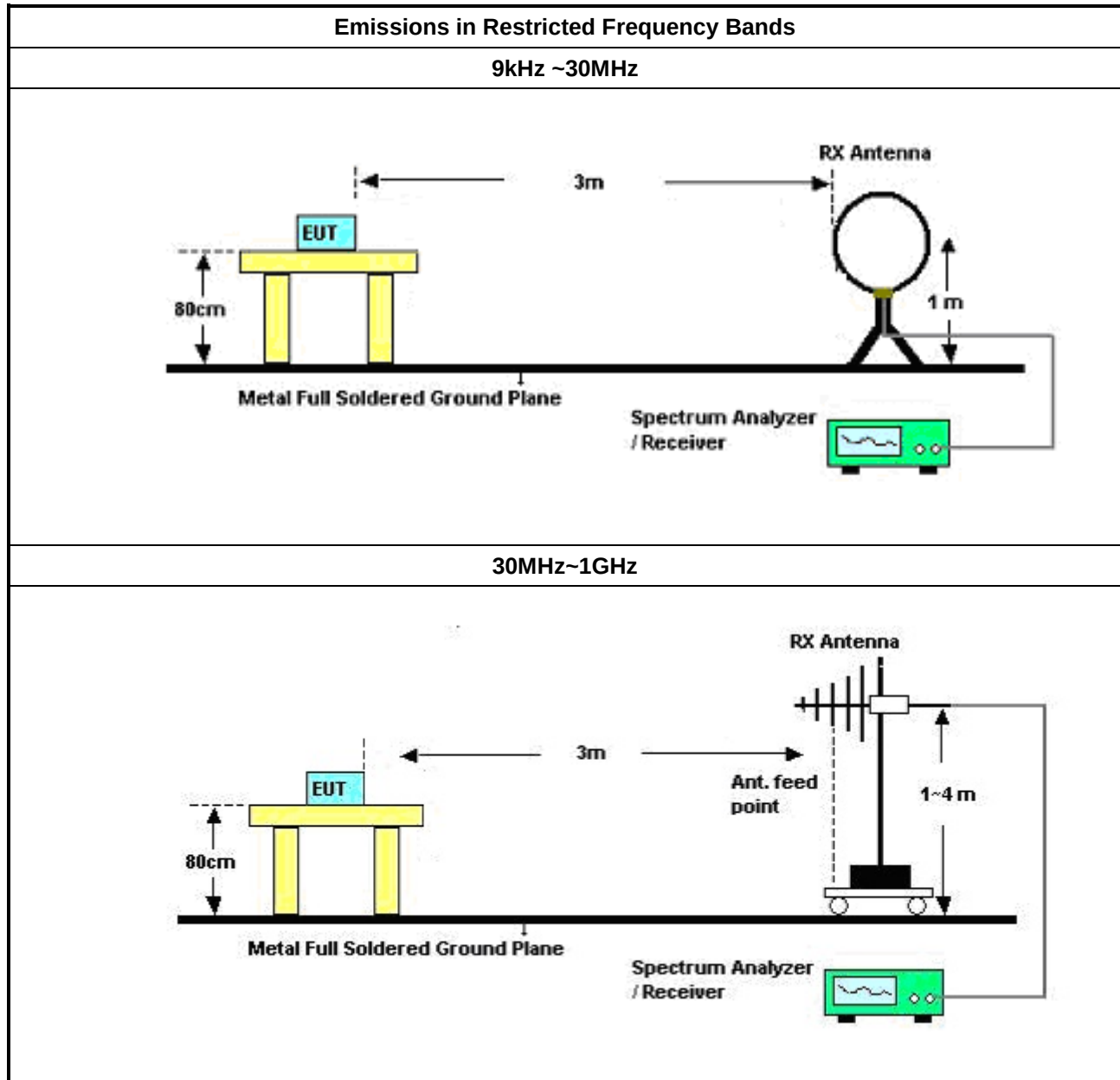
3.6.2 Measuring Instruments

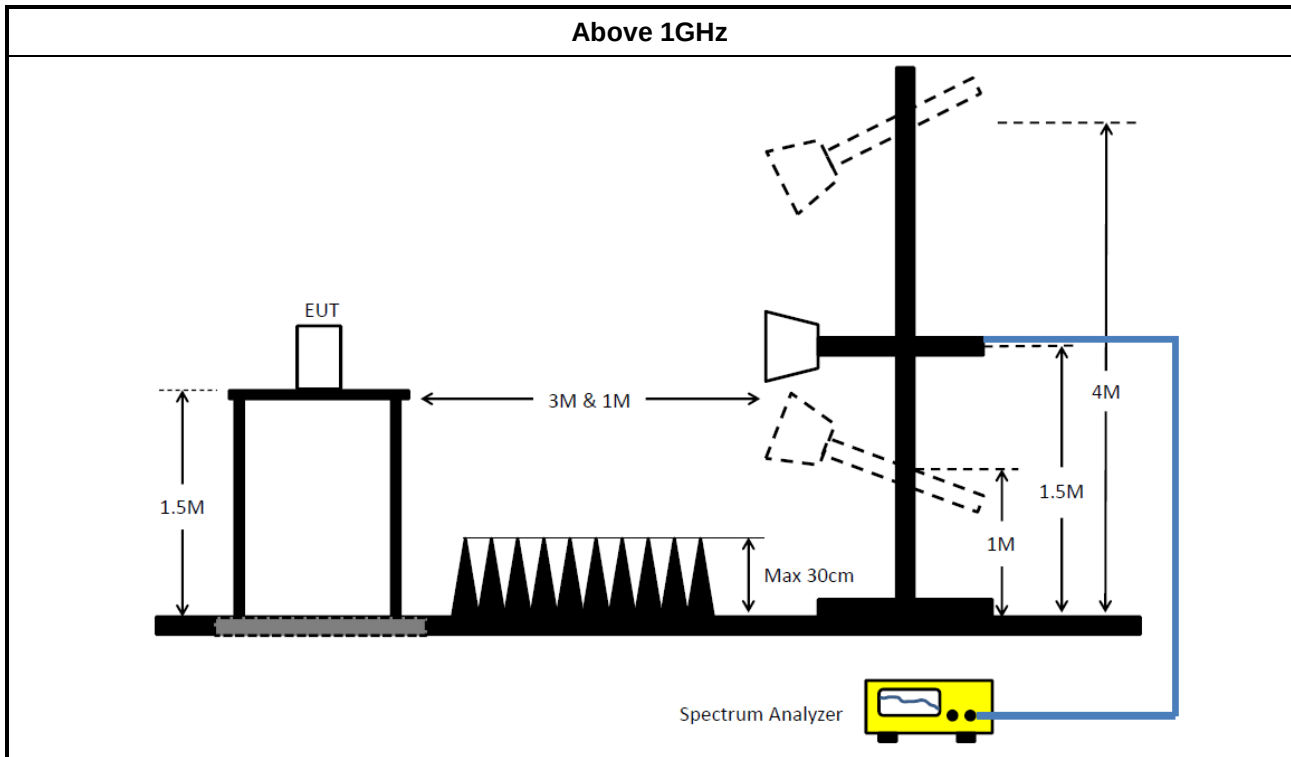
Refer a test equipment and calibration data table in this test report.

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 12 for unwanted emissions into restricted bands.
	☒ Refer as KDB 558074, clause 12.2.5.3 (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW $\geq 1/T$.
	☒ Refer as KDB 558074, clause 12.2.4 measurement procedure peak limit.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as KDB 558074 clause 13.1, 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 13.2 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
For conducted and cabinet radiation measurement, refer as KDB 558074, clause 12.2.2.	
	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	For KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

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	ESCS30	838251/003	9KHz ~ 2.75GHz	13/Jun/2017	12/Jun/2018
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	17/Nov/2017	16/Nov/2018
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	06/Oct/2017	05/Oct/2018
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/2017	11/Oct/2018

NCR : Non-Calibration Require

Instrument for Radiated Test

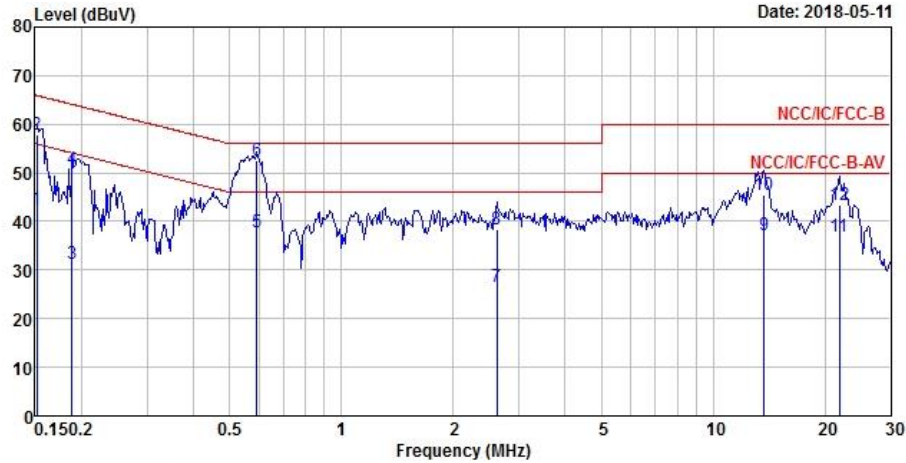
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	31/Oct/2017	30/Oct/2018
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz 3m	01/Nov/2017	31/Oct/2018
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	23/Apr/2018	22/Apr/2019
Amplifier	Keysight	83017A	MY53270196	1GHz ~ 26.5GHz	31/Aug/2017	30/Aug/2018
Spectrum	R&S	FSV40	101500	9kHz ~ 40GHz	28/Jun/2017	27/Jun/2018
Receiver	R&S	ESCS 30	100354	9kHz ~ 2.75GHz	08/Dec/2017	07/Dec/2018
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	26/Jan/2018	25/Jan/2019
RF Cable-high	SUHNER	SUCOFLEX106	CB222	1GHz ~ 40GHz	26/Jan/2018	25/Jan/2019
Bilog Antenna	SCHAFFNER	CBL 6112B	22237	30MHz ~ 1GHz	08/Jul/2017	07/Jul/2018
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	18GHz ~ 40GHz	09/Feb/2018	08/Feb/2019
Horn Antenna	SCHWARZBECK	BBHA9120D	1531	1GHz ~ 18GHz	18/Apr/ 2018	17/Apr/2019
Amplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2017	23/Aug/2018
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz~30 MHz	16/Mar/2018	15/Mar/2019

**Instrument for Conducted Test**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	29/Dec/2017	28/Dec/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	27/Jul/2017	26/Jul/2018
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10712/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	PoE Mode		



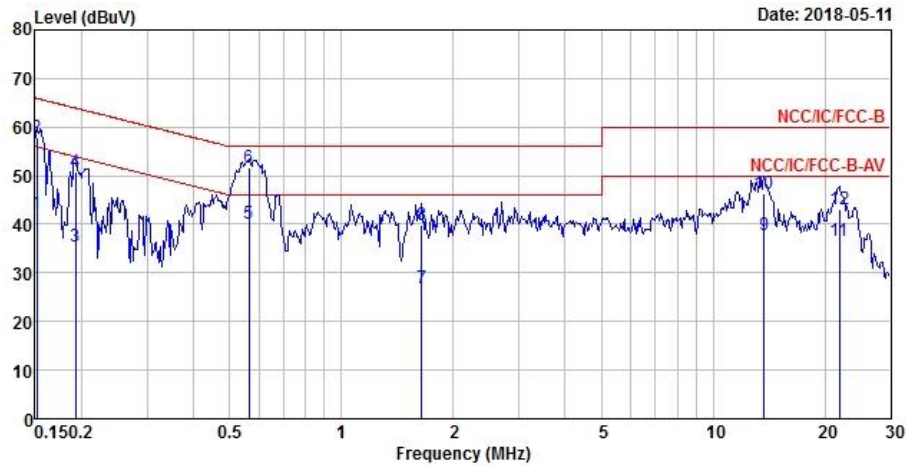
	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	42.38	-13.53	55.91	32.71	9.63	0.04	Average
2	0.15	57.84	-8.07	65.91	48.17	9.63	0.04	QP
3	0.19	31.28	-22.83	54.11	21.65	9.62	0.01	Average
4	0.19	50.90	-13.21	64.11	41.27	9.62	0.01	QP
5	0.59	37.83	-8.17	46.00	28.16	9.61	0.06	Average
6 MAX	0.59	52.41	-3.59	56.00	42.74	9.61	0.06	QP
7	2.62	26.59	-19.41	46.00	16.93	9.63	0.03	Average
8	2.62	38.29	-17.71	56.00	28.63	9.63	0.03	QP
9	13.70	37.23	-12.77	50.00	27.49	9.70	0.04	Average
10	13.70	45.44	-14.56	60.00	35.70	9.70	0.04	QP
11	21.83	36.95	-13.05	50.00	27.12	9.71	0.12	Average
12	21.83	43.31	-16.69	60.00	33.48	9.71	0.12	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	PoE Mode		



	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.15	42.28	-13.63	55.91	32.62	9.62	0.04	Average
2	0.15	57.84	-8.07	65.91	48.18	9.62	0.04	QP
3	0.19	35.50	-18.43	53.93	25.87	9.62	0.01	Average
4	0.19	50.78	-13.15	63.93	41.15	9.62	0.01	QP
5	0.56	40.28	-5.72	46.00	30.61	9.61	0.06	Average
6 MAX	0.56	51.72	-4.28	56.00	42.05	9.61	0.06	QP
7	1.64	26.99	-19.01	46.00	17.37	9.62	0.00	Average
8	1.64	39.81	-16.19	56.00	30.19	9.62	0.00	QP
9	13.70	37.67	-12.33	50.00	27.99	9.64	0.04	Average
10	13.70	46.29	-13.71	60.00	36.61	9.64	0.04	QP
11	21.83	36.58	-13.42	50.00	26.87	9.59	0.12	Average
12	21.83	42.98	-17.02	60.00	33.27	9.59	0.12	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	7.575M	11.994M	12M0G1D	7.05M	11.644M
802.11g_Nss1,(6Mbps)_1TX	16M	16.642M	16M6D1D	15.725M	16.542M
802.11n HT20_Nss1,(MCS0)_1TX	16.8M	17.791M	17M8D1D	16.775M	17.691M

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

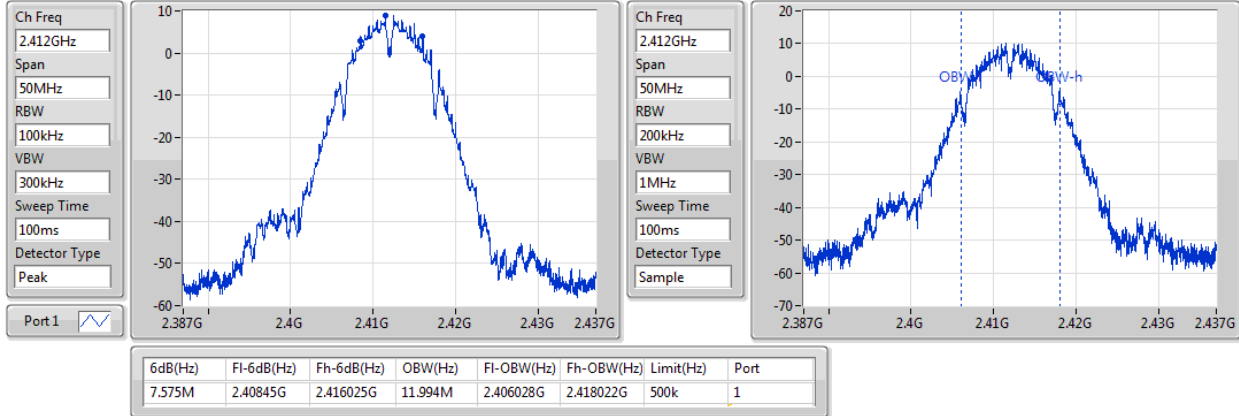
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	7.575M	11.994M
2437MHz_TnomVnom	Pass	500k	7.1M	11.919M
2462MHz_TnomVnom	Pass	500k	7.05M	11.644M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	15.725M	16.542M
2437MHz_TnomVnom	Pass	500k	16M	16.642M
2462MHz_TnomVnom	Pass	500k	15.75M	16.567M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	16.8M	17.691M
2437MHz_TnomVnom	Pass	500k	16.8M	17.791M
2462MHz_TnomVnom	Pass	500k	16.775M	17.716M

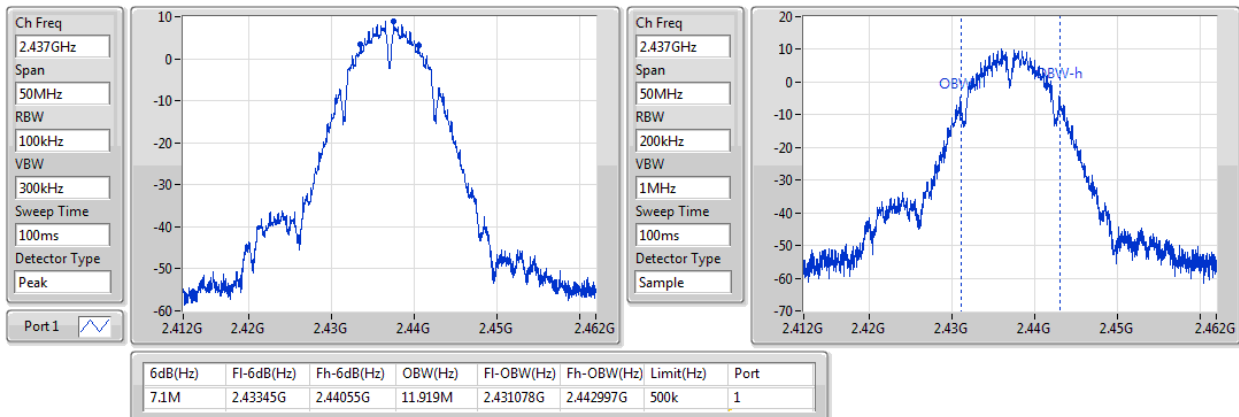
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_1TX
EBW
2412MHz

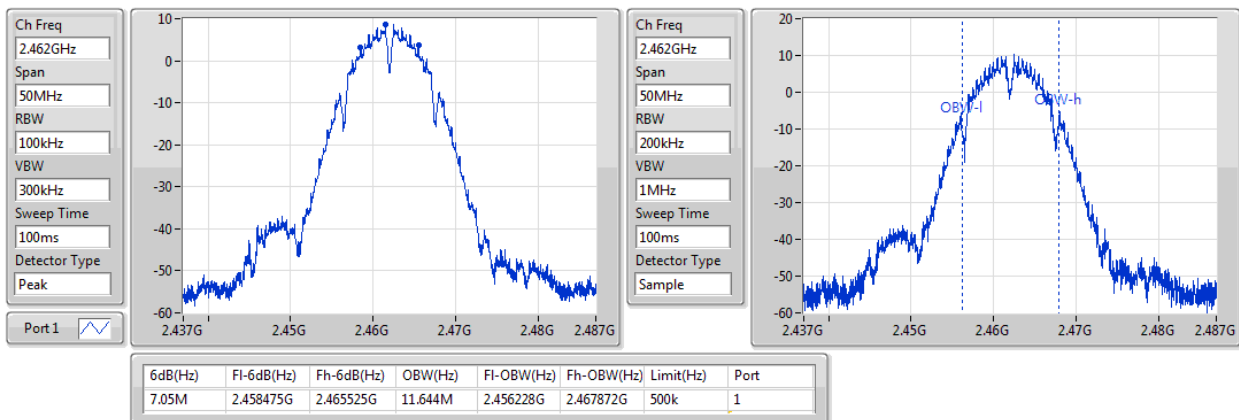
11/05/2018


802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

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802.11b_Nss1,(1Mbps)_1TX
EBW
2462MHz

11/05/2018



802.11g_Nss1,(6Mbps)_1TX
EBW
2412MHz

11/05/2018

Ch Freq
2.412GHz

Span
50MHz

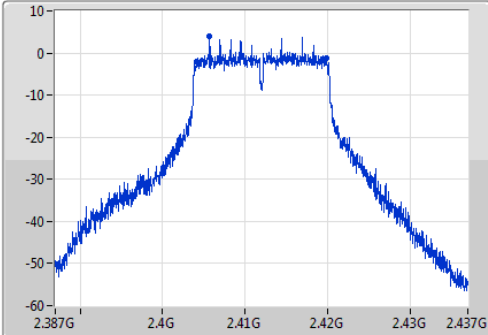
RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak

Port1 



Ch Freq
2.412GHz

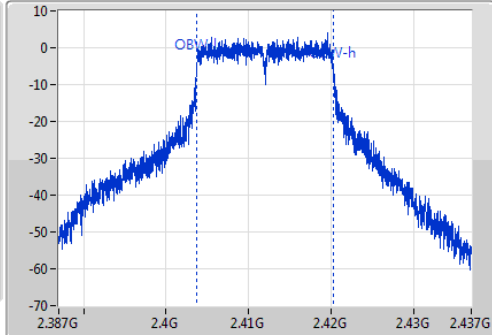
Span
50MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.725M	2.40415G	2.419875G	16.542M	2.403754G	2.420296G	500k	1

802.11g_Nss1,(6Mbps)_1TX
EBW
2437MHz

11/05/2018

Ch Freq
2.437GHz

Span
50MHz

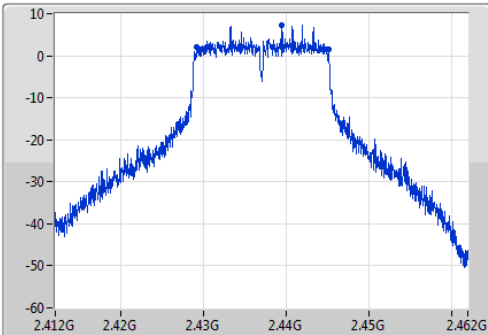
RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak

Port1 



Ch Freq
2.437GHz

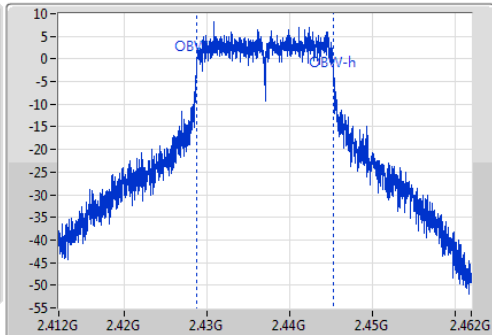
Span
50MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16M	2.429125G	2.445125G	16.642M	2.428679G	2.445321G	500k	1

802.11g_Nss1,(6Mbps)_1TX
EBW
2462MHz

11/05/2018

Ch Freq
2.462GHz

Span
50MHz

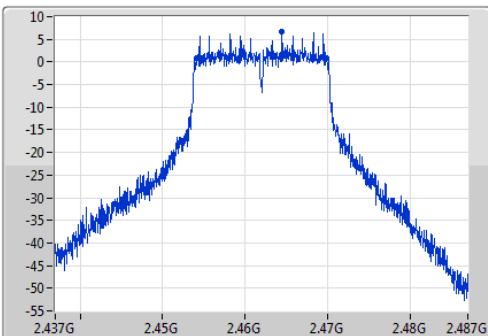
RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak

Port1 



Ch Freq
2.462GHz

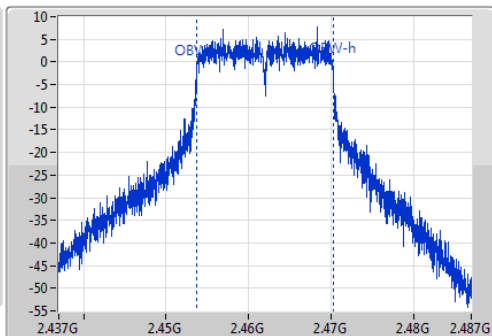
Span
50MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.75M	2.4541G	2.46985G	16.567M	2.453704G	2.470271G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX
EBW
2412MHz

11/05/2018

Ch Freq
2.412GHz

Span
50MHz

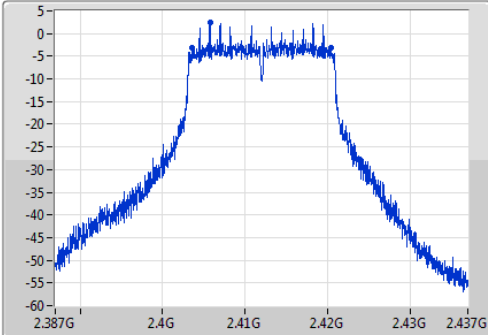
RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak

Port1 



Ch Freq
2.412GHz

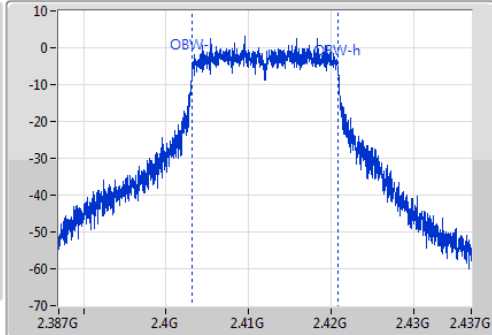
Span
50MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.8M	2.4036G	2.4204G	17.691M	2.403179G	2.420871G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX
EBW
2437MHz

11/05/2018

Ch Freq
2.437GHz

Span
50MHz

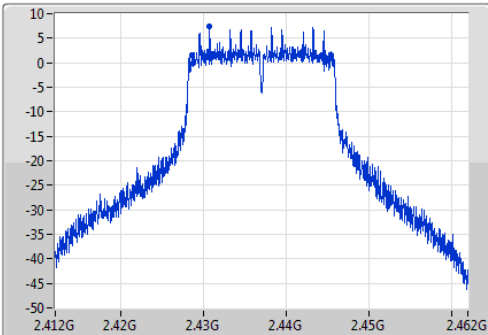
RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak

Port1 



Ch Freq
2.437GHz

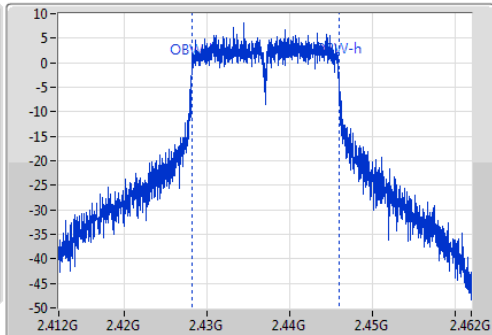
Span
50MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.8M	2.4286G	2.4454G	17.791M	2.428129G	2.445921G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX
EBW
2462MHz

11/05/2018

Ch Freq
2.462GHz

Span
50MHz

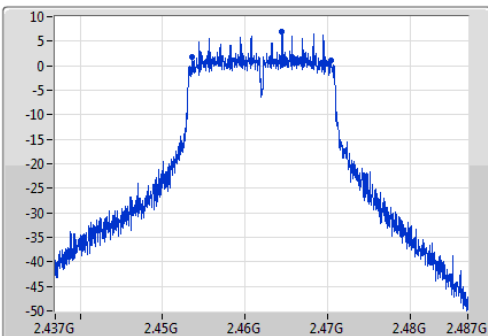
RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak

Port1 



Ch Freq
2.462GHz

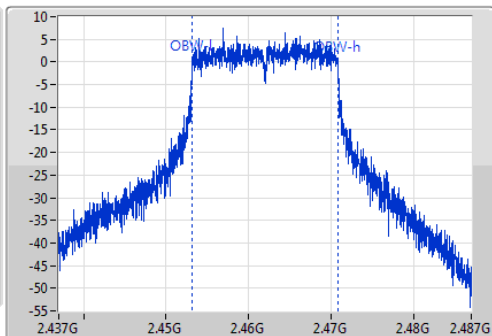
Span
50MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.775M	2.4536G	2.470375G	17.716M	2.453154G	2.470871G	500k	1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	17.97	0.06266
802.11g_Nss1,(6Mbps)_1TX	17.98	0.06281
802.11n HT20_Nss1,(MCS0)_1TX	17.98	0.06281

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.00	17.97	17.97	30.00
2437MHz_TnomVnom	Pass	4.00	17.89	17.89	30.00
2462MHz_TnomVnom	Pass	4.00	17.77	17.77	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.00	14.46	14.46	30.00
2417MHz_TnomVnom	Pass	4.00	17.60	17.60	30.00
2422MHz_TnomVnom	Pass	4.00	17.63	17.63	30.00
2427MHz_TnomVnom	Pass	4.00	17.71	17.71	30.00
2432MHz_TnomVnom	Pass	4.00	17.76	17.76	30.00
2437MHz_TnomVnom	Pass	4.00	17.92	17.92	30.00
2447MHz_TnomVnom	Pass	4.00	17.92	17.92	30.00
2452MHz_TnomVnom	Pass	4.00	17.80	17.80	30.00
2457MHz_TnomVnom	Pass	4.00	17.98	17.98	30.00
2462MHz_TnomVnom	Pass	4.00	17.32	17.32	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.00	12.75	12.75	30.00
2417MHz_TnomVnom	Pass	4.00	17.42	17.42	30.00
2422MHz_TnomVnom	Pass	4.00	17.97	17.97	30.00
2427MHz_TnomVnom	Pass	4.00	17.95	17.95	30.00
2432MHz_TnomVnom	Pass	4.00	17.98	17.98	30.00
2437MHz_TnomVnom	Pass	4.00	17.89	17.89	30.00
2442MHz_TnomVnom	Pass	4.00	17.72	17.72	30.00
2447MHz_TnomVnom	Pass	4.00	17.93	17.93	30.00
2452MHz_TnomVnom	Pass	4.00	17.74	17.74	30.00
2457MHz_TnomVnom	Pass	4.00	17.87	17.87	30.00
2462MHz_TnomVnom	Pass	4.00	17.24	17.24	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)_1TX	-6.23
802.11g_Nss1,(6Mbps)_1TX	-8.75
802.11n HT20_Nss1,(MCS0)_1TX	-9.67

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.00	-6.45	-6.45	8.00
2437MHz_TnomVnom	Pass	4.00	-6.23	-6.23	8.00
2462MHz_TnomVnom	Pass	4.00	-7.71	-7.71	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.00	-13.34	-13.34	8.00
2437MHz_TnomVnom	Pass	4.00	-8.75	-8.75	8.00
2462MHz_TnomVnom	Pass	4.00	-9.89	-9.89	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.00	-14.71	-14.71	8.00
2437MHz_TnomVnom	Pass	4.00	-9.67	-9.67	8.00
2462MHz_TnomVnom	Pass	4.00	-9.95	-9.95	8.00

DG = Directional Gain; RBW=3kHz;

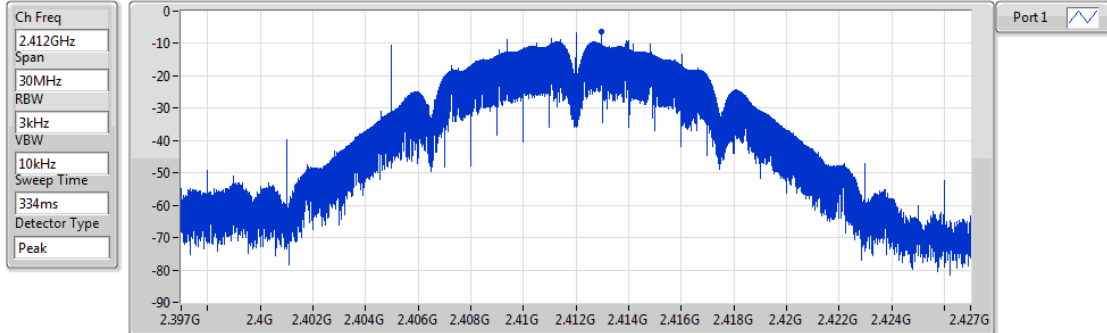
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

11/05/2018



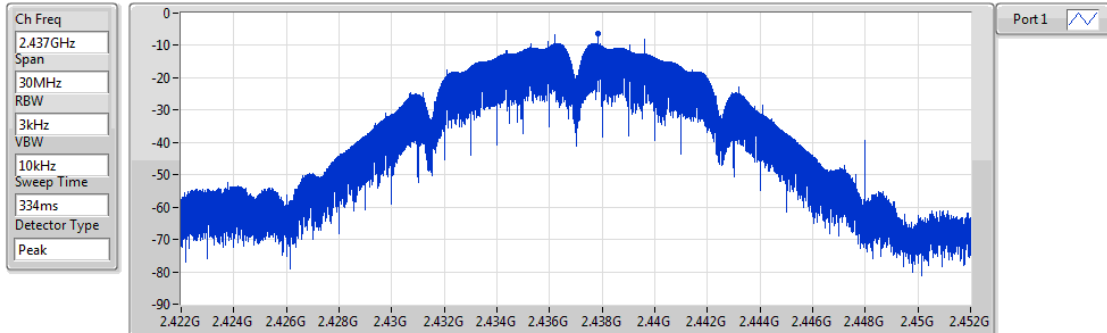
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.45	-6.45	-6.45

802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

11/05/2018



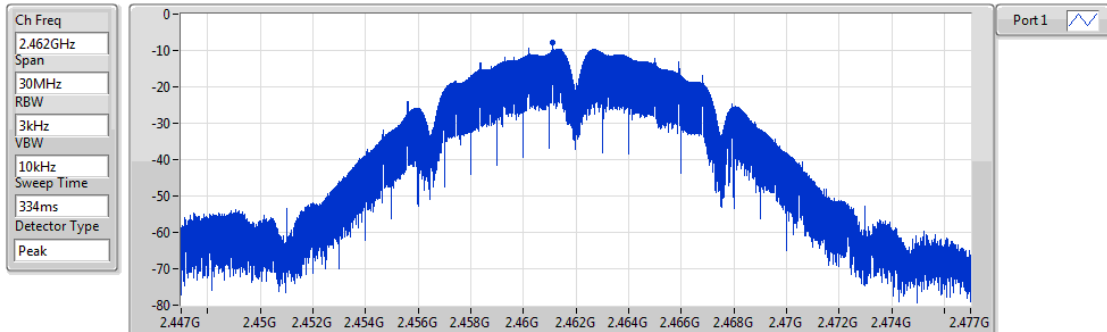
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.23	-6.23	-6.23

802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

11/05/2018



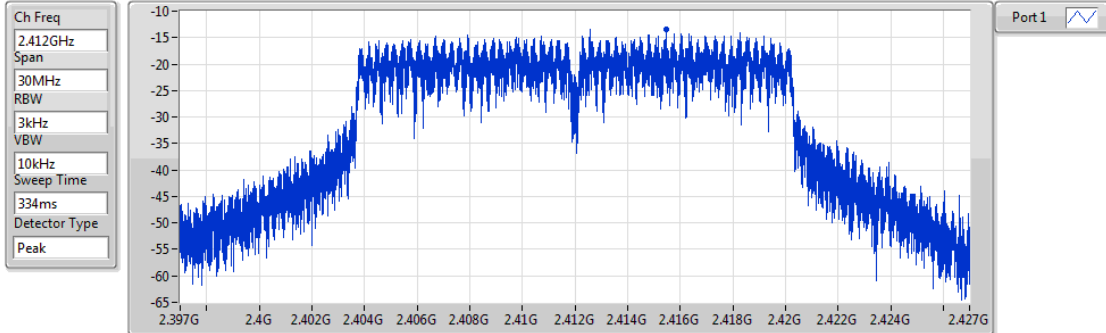
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.71	-7.71	-7.71

802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

11/05/2018



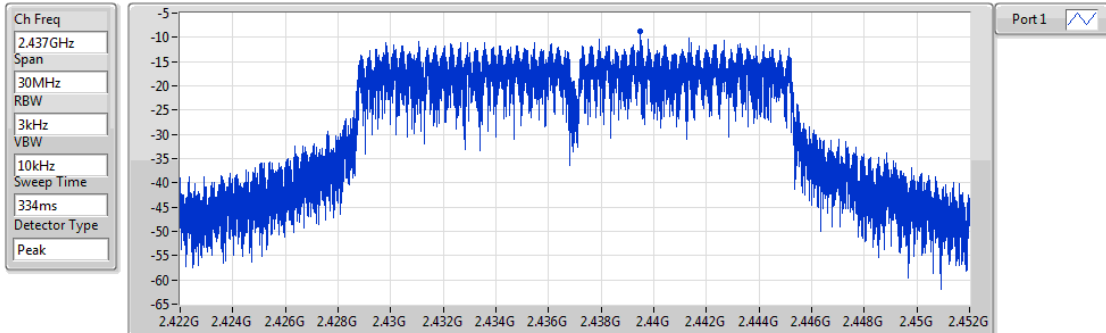
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.34	-13.34	-13.34

802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

11/05/2018



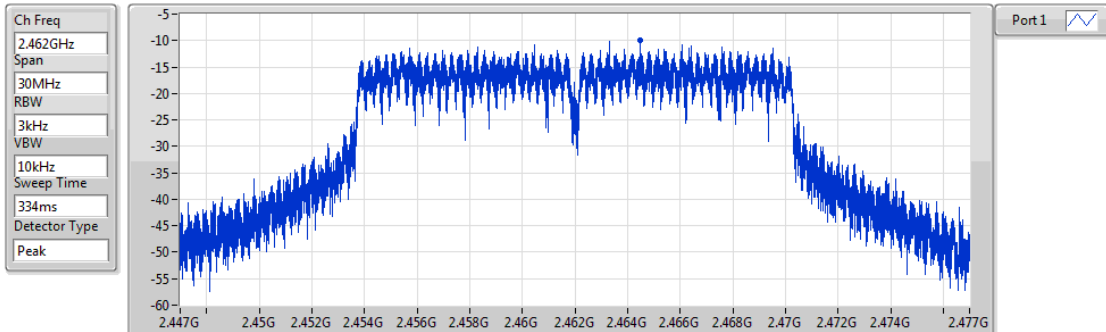
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.75	-8.75	-8.75

802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

11/05/2018



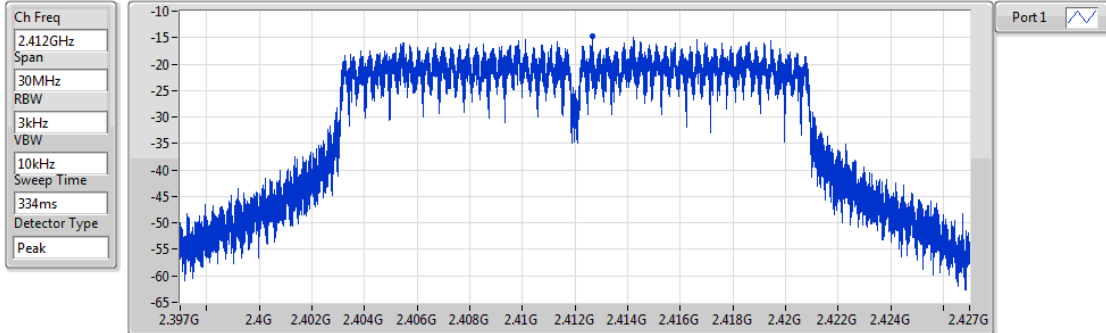
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.89	-9.89	-9.89

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2412MHz

11/05/2018



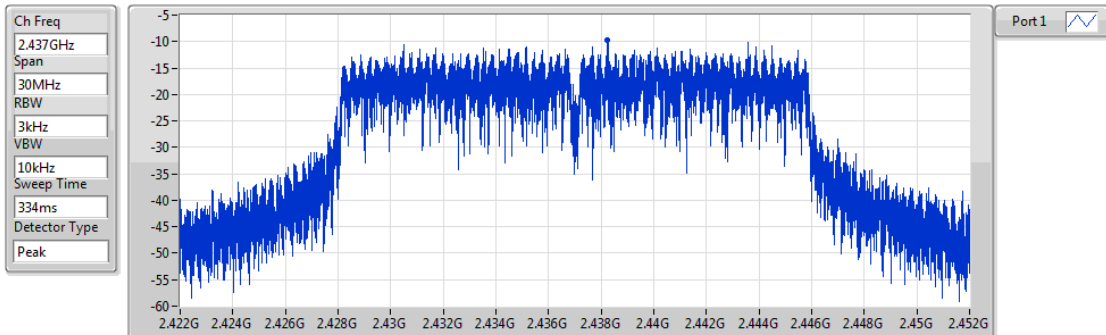
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-14.71	-14.71	-14.71

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2437MHz

11/05/2018



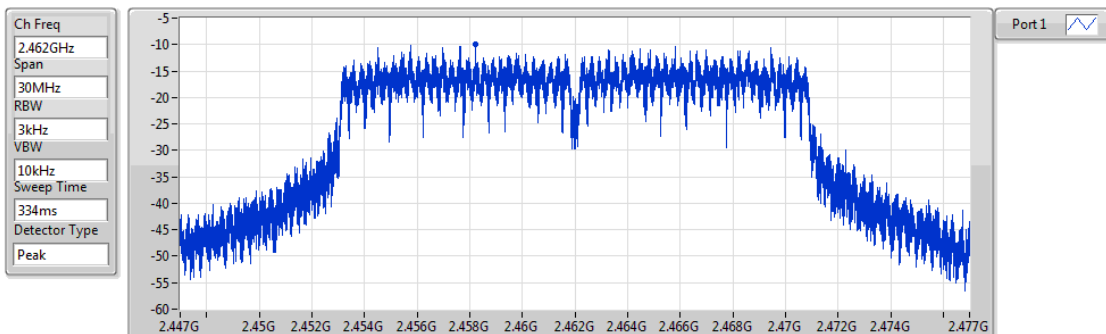
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-9.67	-9.67	-9.67

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2462MHz

11/05/2018



Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-9.95	-9.95	-9.95

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)_1TX	Pass	2.411356G	8.81	-21.19	2.10836G	-59.07	2.39904G	-35.60	2.52006G	-52.69	7.237946G	-53.44	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.430728G	7.48	-22.52	2.16195G	-59.08	2.39832G	-27.28	2.4975G	-52.37	6.959799G	-52.52	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.442084G	7.80	-22.20	2.125835G	-59.42	2.39984G	-28.64	2.50502G	-51.12	6.976657G	-53.89	1

Result

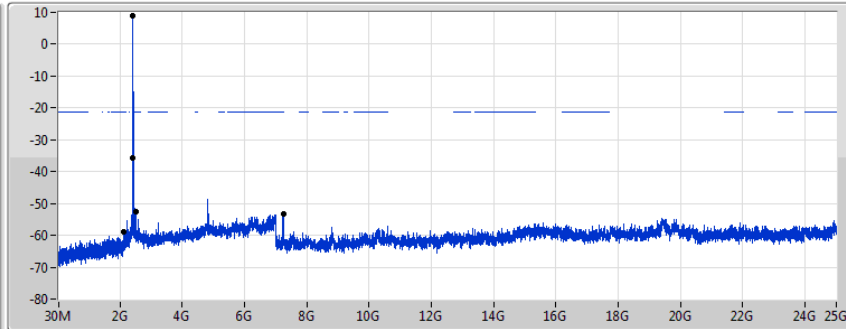
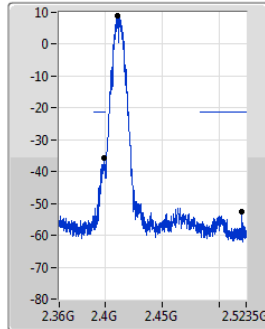
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.411356G	8.81	-21.19	2.10836G	-59.07	2.39904G	-35.60	2.52006G	-52.69	7.237946G	-53.44	1
2437MHz_TnomVnom	Pass	2.411356G	8.81	-21.19	2.305245G	-60.06	2.39128G	-53.17	2.4899G	-50.19	2.5235G	-51.47	1
2462MHz_TnomVnom	Pass	2.411356G	8.81	-21.19	2.12234G	-59.22	2.39632G	-56.29	2.51998G	-50.44	2.548786G	-53.48	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.430728G	7.48	-22.52	2.16195G	-59.08	2.39832G	-27.28	2.4975G	-52.37	6.959799G	-52.52	1
2437MHz_TnomVnom	Pass	2.430728G	7.48	-22.52	2.30408G	-59.74	2.39984G	-50.69	2.51998G	-48.36	2.529119G	-51.54	1
2462MHz_TnomVnom	Pass	2.430728G	7.48	-22.52	2.17826G	-58.11	2.39944G	-55.00	2.48382G	-41.07	2.548786G	-52.90	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.442084G	7.80	-22.20	2.125835G	-59.42	2.39984G	-28.64	2.50502G	-51.12	6.976657G	-53.89	1
2437MHz_TnomVnom	Pass	2.442084G	7.80	-22.20	2.12933G	-60.14	2.39896G	-48.51	2.48926G	-49.30	2.52631G	-52.85	1
2462MHz_TnomVnom	Pass	2.442084G	7.80	-22.20	2.30175G	-59.75	2.39584G	-53.44	2.48358G	-40.91	2.543167G	-51.57	1

802.11b_Nss1,(1Mbps)_1TX

CSE NdB

2412MHz

11/05/2018



Port1 

RBW VSW
100kHz 300kHz
Detector Type
Peak

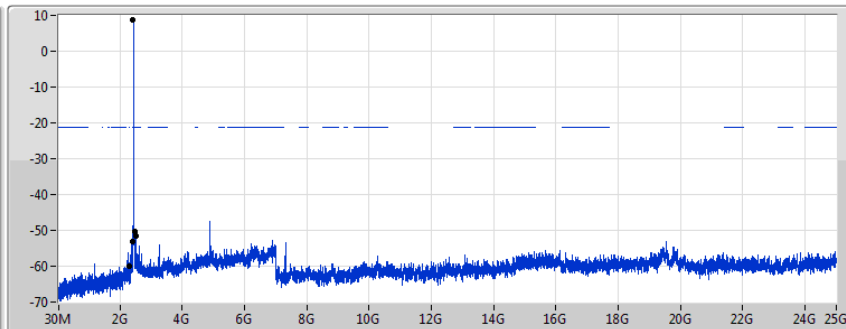
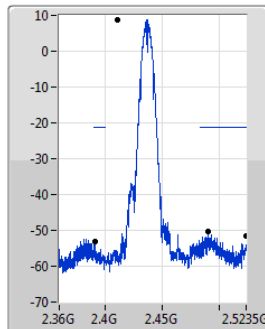
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.411356G	8.81	-21.19	2.10836G	-59.07	2.39904G	-35.60	2.52006G	-52.69	7.237946G	-53.44	1

802.11b_Nss1,(1Mbps)_1TX

CSE NdB

2437MHz

11/05/2018



Port1 

RBW VSW
100kHz 300kHz
Detector Type
Peak

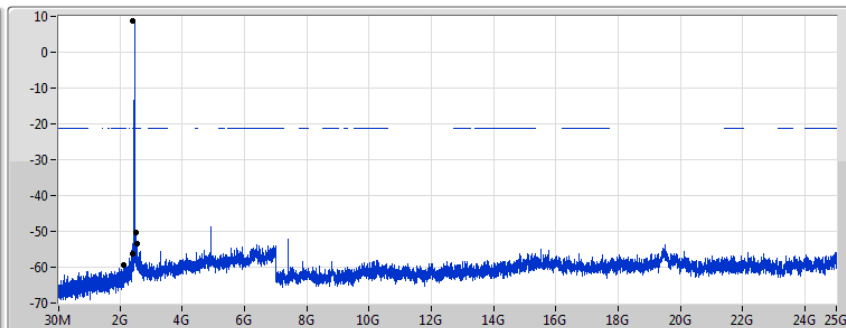
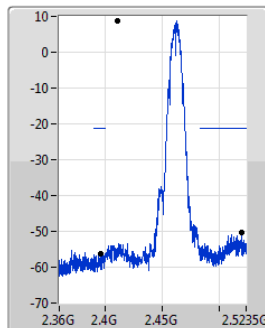
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.411356G	8.81	-21.19	2.305245G	-60.06	2.39128G	-53.17	2.4899G	-50.19	2.5235G	-51.47	1

802.11b_Nss1,(1Mbps)_1TX

CSE NdB

2462MHz

11/05/2018



Port1 

RBW VSW
100kHz 300kHz
Detector Type
Peak

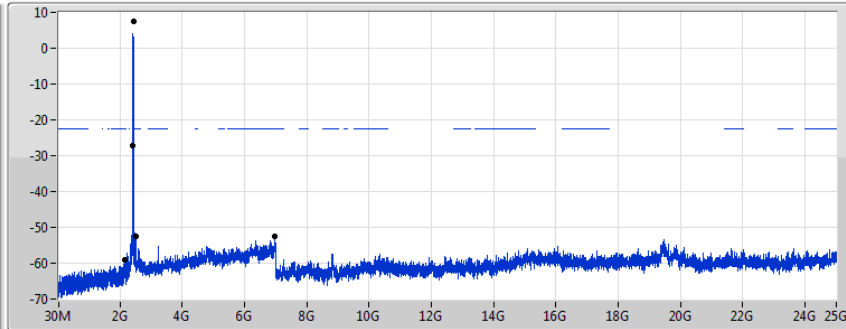
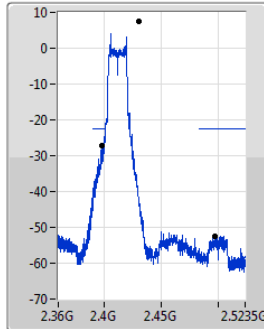
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.411356G	8.81	-21.19	2.12234G	-59.22	2.39632G	-56.29	2.51998G	-50.44	2.548786G	-53.48	1

802.11g_Nss1,(6Mbps)_1TX

CSE NdB

2412MHz

11/05/2018



Port1

RBW VSW
100kHz 300kHz
Detector Type
Peak

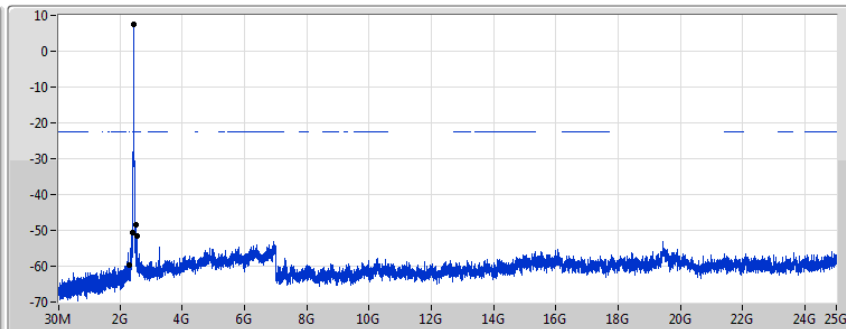
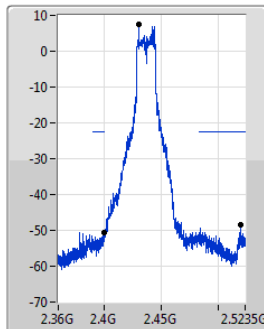
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.430728G	7.48	-22.52	2.16195G	-59.08	2.39832G	-27.28	2.4975G	-52.37	6.959799G	-52.52	1

802.11g_Nss1,(6Mbps)_1TX

CSE NdB

2437MHz

11/05/2018



Port1

RBW VSW
100kHz 300kHz
Detector Type
Peak

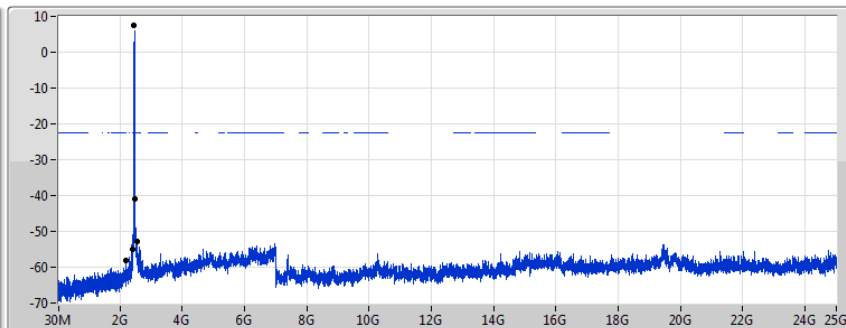
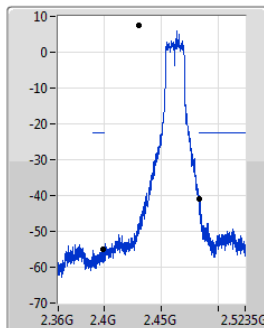
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.430728G	7.48	-22.52	2.30408G	-59.74	2.39984G	-50.69	2.51998G	-48.36	2.529119G	-51.54	1

802.11g_Nss1,(6Mbps)_1TX

CSE NdB

2462MHz

11/05/2018



Port1

RBW VSW
100kHz 300kHz
Detector Type
Peak

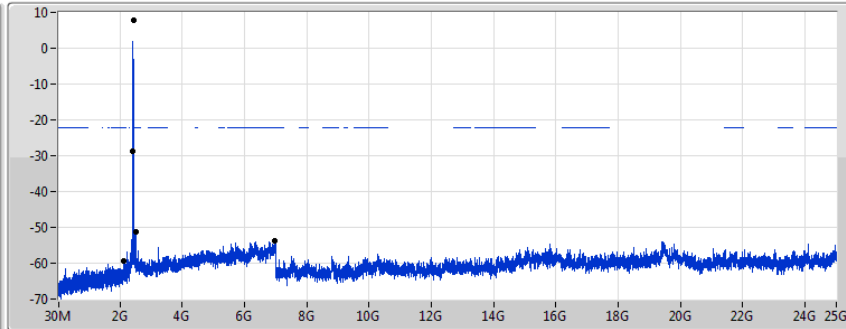
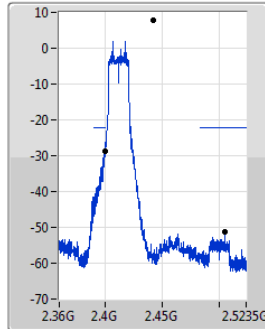
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.430728G	7.48	-22.52	2.17826G	-58.11	2.39944G	-55.00	2.48382G	-41.07	2.548786G	-52.90	1

802.11n HT20_Nss1,(MCS0)_1TX

CSE NdB

2412MHz

11/05/2018



Port1

RBW VSW
100kHz 300kHz
Detector Type
Peak

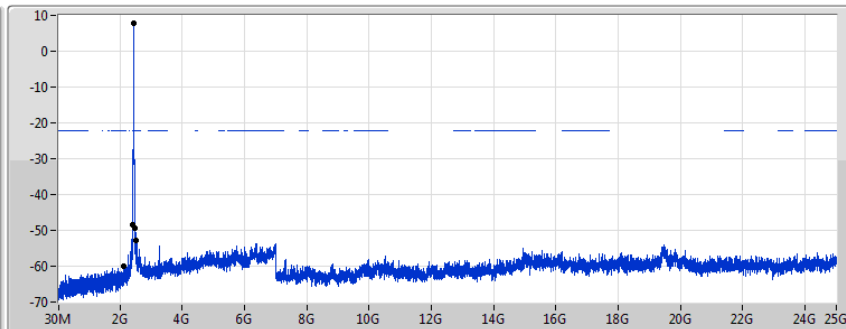
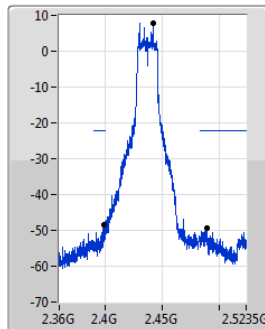
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442084G	7.80	-22.20	2.125835G	-59.42	2.39984G	-28.64	2.50502G	-51.12	6.976657G	-53.89	1

802.11n HT20_Nss1,(MCS0)_1TX

CSE NdB

2437MHz

11/05/2018



Port1

RBW VSW
100kHz 300kHz
Detector Type
Peak

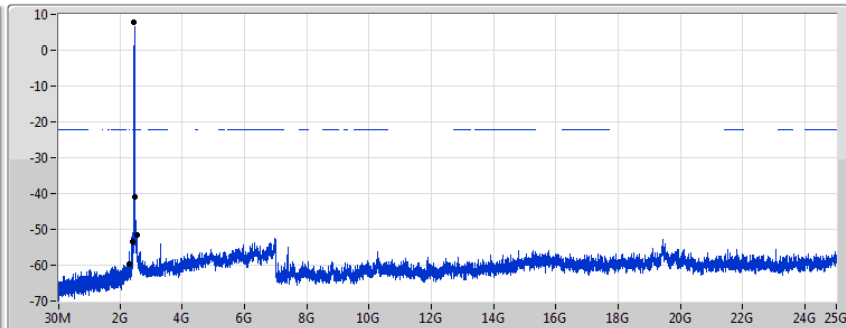
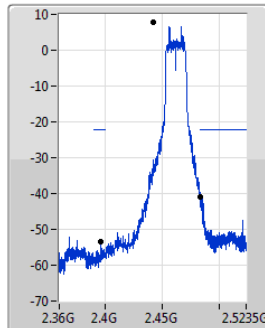
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442084G	7.80	-22.20	2.12933G	-60.14	2.39896G	-48.51	2.48926G	-49.30	2.52631G	-52.85	1

802.11n HT20_Nss1,(MCS0)_1TX

CSE NdB

2462MHz

11/05/2018



Port1

RBW VSW
100kHz 300kHz
Detector Type
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442084G	7.80	-22.20	2.30175G	-59.75	2.39584G	-53.44	2.48358G	-40.91	2.543167G	-51.57	1

**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 HT20_Nss1,(MCS0)_1TX	Pass	QP	37.76M	36.85	40.00	-3.15	-6.82	3	Vertical	320	1.01	-

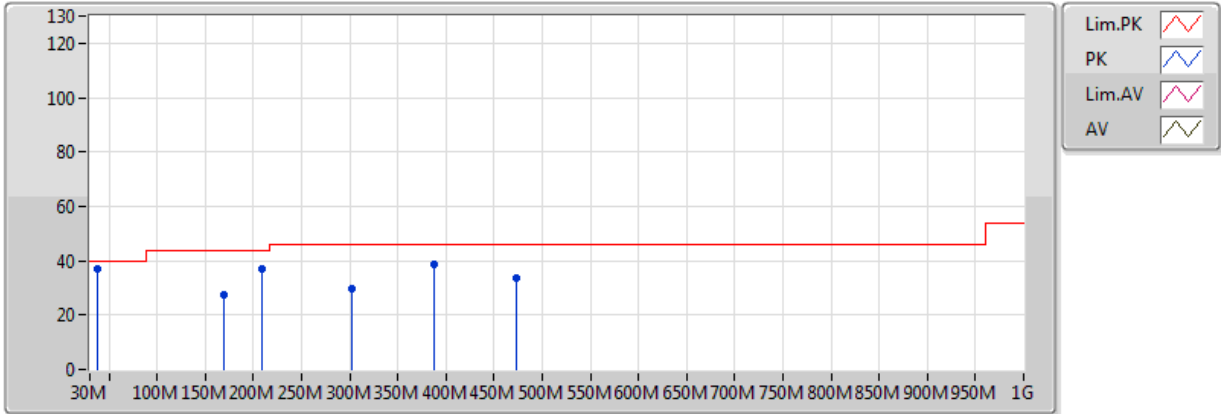
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	169.68M	27.52	43.50	-15.98	-9.73	3	Vertical	0	1.00	-
2437MHz	Pass	PK	208.48M	36.93	43.50	-6.57	-10.01	3	Vertical	0	1.00	-
2437MHz	Pass	PK	301.6M	29.81	46.00	-16.19	-5.74	3	Vertical	0	1.00	-
2437MHz	Pass	PK	386.96M	38.93	46.00	-7.07	-3.95	3	Vertical	0	1.00	-
2437MHz	Pass	PK	472.32M	33.37	46.00	-12.63	-1.78	3	Vertical	0	1.00	-
2437MHz	Pass	QP	37.76M	36.85	40.00	-3.15	-6.82	3	Vertical	320	1.01	-
2437MHz	Pass	PK	37.76M	26.51	40.00	-13.49	-6.82	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	127M	28.00	43.50	-15.50	-7.76	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	212.36M	37.24	43.50	-6.26	-10.00	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	371.44M	41.85	46.00	-4.15	-4.23	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	468.44M	32.72	46.00	-13.28	-1.85	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	749.74M	29.15	46.00	-16.85	1.50	3	Horizontal	360	1.00	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_PoE

12/05/2018

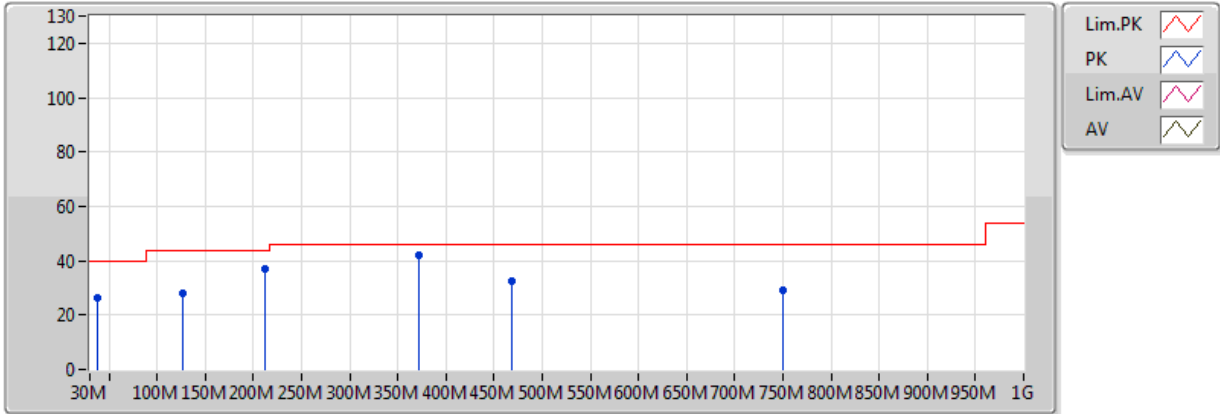


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	169.68M	27.52	43.50	-15.98	-9.73	3	Vertical	0	1.00	-
PK	208.48M	36.93	43.50	-6.57	-10.01	3	Vertical	0	1.00	-
PK	301.6M	29.81	46.00	-16.19	-5.74	3	Vertical	0	1.00	-
PK	386.96M	38.93	46.00	-7.07	-3.95	3	Vertical	0	1.00	-
PK	472.32M	33.37	46.00	-12.63	-1.78	3	Vertical	0	1.00	-
QP	37.76M	36.85	40.00	-3.15	-6.82	3	Vertical	320	1.01	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_PoE

12/05/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	37.76M	26.51	40.00	-13.49	-6.82	3	Horizontal	360	1.00	-
PK	127M	28.00	43.50	-15.50	-7.76	3	Horizontal	360	1.00	-
PK	212.36M	37.24	43.50	-6.26	-10.00	3	Horizontal	360	1.00	-
PK	371.44M	41.85	46.00	-4.15	-4.23	3	Horizontal	360	1.00	-
PK	468.44M	32.72	46.00	-13.28	-1.85	3	Horizontal	360	1.00	-
PK	749.74M	29.15	46.00	-16.85	1.50	3	Horizontal	360	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)_1TX	Pass	AV	2.3892G	53.83	54.00	-0.17	30.91	3	Horizontal	28	2.10	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.3896G	53.82	54.00	-0.18	30.91	3	Horizontal	34	2.10	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.389998G	53.82	54.00	-0.18	30.91	3	Horizontal	39	2.67	-

**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)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3892G	47.69	54.00	-6.31	30.91	3	Vertical	332	1.69	-
2412MHz	Pass	AV	2.4112G	101.42	Inf	-Inf	30.98	3	Vertical	332	1.69	-
2412MHz	Pass	PK	2.389998G	58.34	74.00	-15.66	30.91	3	Vertical	332	1.69	-
2412MHz	Pass	PK	2.4118G	103.89	Inf	-Inf	30.98	3	Vertical	332	1.69	-
2412MHz	Pass	AV	2.3892G	53.83	54.00	-0.17	30.91	3	Horizontal	28	2.10	-
2412MHz	Pass	AV	2.4128G	109.15	Inf	-Inf	30.98	3	Horizontal	28	2.10	-
2412MHz	Pass	PK	2.3898G	62.25	74.00	-11.75	30.91	3	Horizontal	28	2.10	-
2412MHz	Pass	PK	2.4118G	111.74	Inf	-Inf	30.98	3	Horizontal	28	2.10	-
2412MHz	Pass	AV	4.824008G	46.78	54.00	-7.22	1.92	3	Vertical	146	1.40	-
2412MHz	Pass	AV	4.999936G	47.27	54.00	-6.73	2.36	3	Vertical	176	1.50	-
2412MHz	Pass	PK	4.823968G	51.06	74.00	-22.94	1.92	3	Vertical	146	1.40	-
2412MHz	Pass	PK	5.00004G	52.94	74.00	-21.06	2.36	3	Vertical	176	1.50	-
2412MHz	Pass	AV	4.82402G	47.99	54.00	-6.01	1.92	3	Horizontal	224	3.01	-
2412MHz	Pass	AV	4.99996G	51.59	54.00	-2.41	2.36	3	Horizontal	168	1.45	-
2412MHz	Pass	PK	4.82393G	52.17	74.00	-21.83	1.92	3	Horizontal	224	3.01	-
2412MHz	Pass	PK	4.99986G	55.16	74.00	-18.84	2.36	3	Horizontal	168	1.45	-
2437MHz	Pass	AV	2.3878G	46.46	54.00	-7.54	30.90	3	Vertical	328	2.30	-
2437MHz	Pass	AV	2.4378G	103.42	Inf	-Inf	31.06	3	Vertical	328	2.30	-
2437MHz	Pass	AV	2.483502G	48.16	54.00	-5.84	31.21	3	Vertical	328	2.30	-
2437MHz	Pass	PK	2.385G	57.99	74.00	-16.01	30.90	3	Vertical	328	2.30	-
2437MHz	Pass	PK	2.4378G	105.73	Inf	-Inf	31.06	3	Vertical	328	2.30	-
2437MHz	Pass	PK	2.4846G	59.11	74.00	-14.89	31.21	3	Vertical	328	2.30	-
2437MHz	Pass	AV	2.3882G	53.07	54.00	-0.93	30.90	3	Horizontal	32	1.89	-
2437MHz	Pass	AV	2.4378G	111.49	Inf	-Inf	31.06	3	Horizontal	32	1.89	-
2437MHz	Pass	AV	2.483502G	53.55	54.00	-0.45	31.21	3	Horizontal	32	1.89	-
2437MHz	Pass	PK	2.3854G	60.51	74.00	-13.49	30.90	3	Horizontal	32	1.89	-
2437MHz	Pass	PK	2.4362G	113.84	Inf	-Inf	31.06	3	Horizontal	32	1.89	-
2437MHz	Pass	PK	2.4846G	59.94	74.00	-14.06	31.21	3	Horizontal	32	1.89	-
2437MHz	Pass	AV	4.874056G	51.34	54.00	-2.66	2.03	3	Vertical	197	1.49	-
2437MHz	Pass	AV	5G	46.90	54.00	-7.10	2.36	3	Vertical	172	1.51	-
2437MHz	Pass	PK	4.87406G	54.31	74.00	-19.69	2.03	3	Vertical	197	1.49	-
2437MHz	Pass	PK	4.99998G	52.49	74.00	-21.51	2.36	3	Vertical	172	1.51	-
2437MHz	Pass	AV	4.87402G	53.75	54.00	-0.25	2.03	3	Horizontal	326	3.08	-
2437MHz	Pass	AV	5G	51.47	54.00	-2.53	2.36	3	Horizontal	129	1.12	-
2437MHz	Pass	PK	4.874016G	56.46	74.00	-17.54	2.03	3	Horizontal	326	3.08	-
2437MHz	Pass	PK	5G	54.98	74.00	-19.02	2.36	3	Horizontal	129	1.12	-
2462MHz	Pass	AV	2.463G	102.27	Inf	-Inf	31.14	3	Vertical	326	1.83	-
2462MHz	Pass	AV	2.4862G	47.44	54.00	-6.56	31.22	3	Vertical	326	1.83	-
2462MHz	Pass	PK	2.4612G	103.80	Inf	-Inf	31.14	3	Vertical	326	1.83	-
2462MHz	Pass	PK	2.499998G	58.10	74.00	-15.90	31.26	3	Vertical	326	1.83	-
2462MHz	Pass	AV	2.4612G	109.29	Inf	-Inf	31.14	3	Horizontal	28	2.84	-
2462MHz	Pass	AV	2.483502G	49.26	54.00	-4.74	31.21	3	Horizontal	28	2.84	-
2462MHz	Pass	PK	2.4612G	111.63	Inf	-Inf	31.14	3	Horizontal	28	2.84	-
2462MHz	Pass	PK	2.4992G	59.22	74.00	-14.78	31.26	3	Horizontal	28	2.84	-
2462MHz	Pass	AV	4.923988G	48.32	54.00	-5.68	2.15	3	Vertical	139	3.05	-
2462MHz	Pass	AV	5G	47.16	54.00	-6.84	2.36	3	Vertical	173	1.49	-
2462MHz	Pass	PK	4.924052G	52.12	74.00	-21.88	2.15	3	Vertical	139	3.05	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	5G	52.68	74.00	-21.32	2.36	3	Vertical	173	1.49	-
2462MHz	Pass	AV	4.924008G	53.66	54.00	-0.34	2.15	3	Horizontal	330	3.09	-
2462MHz	Pass	AV	5G	51.62	54.00	-2.38	2.36	3	Horizontal	126	1.13	-
2462MHz	Pass	PK	4.92392G	56.43	74.00	-17.57	2.15	3	Horizontal	330	3.09	-
2462MHz	Pass	PK	5G	54.66	74.00	-19.34	2.36	3	Horizontal	126	1.13	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.389998G	48.35	54.00	-5.65	30.91	3	Vertical	331	1.69	-
2412MHz	Pass	AV	2.4068G	91.25	Inf	-Inf	30.96	3	Vertical	331	1.69	-
2412MHz	Pass	PK	2.389998G	59.41	74.00	-14.59	30.91	3	Vertical	331	1.69	-
2412MHz	Pass	PK	2.4088G	99.88	Inf	-Inf	30.97	3	Vertical	331	1.69	-
2412MHz	Pass	AV	2.389998G	53.71	54.00	-0.29	30.91	3	Horizontal	19	3.02	-
2412MHz	Pass	AV	2.4152G	97.16	Inf	-Inf	30.99	3	Horizontal	19	3.02	-
2412MHz	Pass	PK	2.389998G	66.08	74.00	-7.92	30.91	3	Horizontal	19	3.02	-
2412MHz	Pass	PK	2.415G	105.89	Inf	-Inf	30.99	3	Horizontal	19	3.02	-
2412MHz	Pass	AV	4.82228G	33.14	54.00	-20.86	1.91	3	Vertical	327	1.16	-
2412MHz	Pass	AV	5G	47.12	54.00	-6.88	2.36	3	Vertical	172	1.53	-
2412MHz	Pass	PK	4.83264G	45.22	74.00	-28.78	1.94	3	Vertical	327	1.16	-
2412MHz	Pass	PK	5G	53.05	74.00	-20.95	2.36	3	Vertical	172	1.53	-
2412MHz	Pass	AV	4.82408G	33.92	54.00	-20.08	1.92	3	Horizontal	221	2.28	-
2412MHz	Pass	AV	5G	51.37	54.00	-2.63	2.36	3	Horizontal	130	1.26	-
2412MHz	Pass	PK	4.82132G	45.62	74.00	-28.38	1.91	3	Horizontal	221	2.28	-
2412MHz	Pass	PK	5G	54.79	74.00	-19.21	2.36	3	Horizontal	130	1.26	-
2417MHz	Pass	AV	2.3894G	48.76	54.00	-5.24	30.91	3	Vertical	345	2.99	-
2417MHz	Pass	AV	2.4196G	95.33	Inf	-Inf	31.00	3	Vertical	345	2.99	-
2417MHz	Pass	PK	2.3878G	62.15	74.00	-11.85	30.90	3	Vertical	345	2.99	-
2417MHz	Pass	PK	2.42G	104.27	Inf	-Inf	31.00	3	Vertical	345	2.99	-
2417MHz	Pass	AV	2.3896G	53.82	54.00	-0.18	30.91	3	Horizontal	34	2.10	-
2417MHz	Pass	AV	2.4204G	101.53	Inf	-Inf	31.01	3	Horizontal	34	2.10	-
2417MHz	Pass	PK	2.3894G	66.96	74.00	-7.04	30.91	3	Horizontal	34	2.10	-
2417MHz	Pass	PK	2.4202G	110.37	Inf	-Inf	31.00	3	Horizontal	34	2.10	-
2422MHz	Pass	AV	2.389998G	48.56	54.00	-5.44	30.91	3	Vertical	345	2.99	-
2422MHz	Pass	AV	2.4186G	96.56	Inf	-Inf	31.00	3	Vertical	345	2.99	-
2422MHz	Pass	PK	2.3896G	60.41	74.00	-13.59	30.91	3	Vertical	345	2.99	-
2422MHz	Pass	PK	2.4186G	105.32	Inf	-Inf	31.00	3	Vertical	345	2.99	-
2422MHz	Pass	AV	2.3898G	53.24	54.00	-0.76	30.91	3	Horizontal	34	2.09	-
2422MHz	Pass	AV	2.4186G	102.76	Inf	-Inf	31.00	3	Horizontal	34	2.09	-
2422MHz	Pass	PK	2.3898G	67.23	74.00	-6.77	30.91	3	Horizontal	34	2.09	-
2422MHz	Pass	PK	2.4188G	111.26	Inf	-Inf	31.00	3	Horizontal	34	2.09	-
2427MHz	Pass	AV	2.3898G	48.56	54.00	-5.44	30.91	3	Vertical	345	2.99	-
2427MHz	Pass	AV	2.422G	97.78	Inf	-Inf	31.01	3	Vertical	345	2.99	-
2427MHz	Pass	PK	2.3834G	60.28	74.00	-13.72	30.89	3	Vertical	345	2.99	-
2427MHz	Pass	PK	2.4232G	106.76	Inf	-Inf	31.01	3	Vertical	345	2.99	-
2427MHz	Pass	AV	2.3894G	53.82	54.00	-0.18	30.91	3	Horizontal	36	2.37	-
2427MHz	Pass	AV	2.4238G	103.28	Inf	-Inf	31.02	3	Horizontal	36	2.37	-
2427MHz	Pass	PK	2.387G	66.47	74.00	-7.53	30.90	3	Horizontal	36	2.37	-
2427MHz	Pass	PK	2.4302G	112.12	Inf	-Inf	31.04	3	Horizontal	36	2.37	-
2432MHz	Pass	AV	2.3892G	48.35	54.00	-5.65	30.91	3	Vertical	341	2.99	-
2432MHz	Pass	AV	2.4268G	98.01	Inf	-Inf	31.03	3	Vertical	341	2.99	-
2432MHz	Pass	AV	2.499998G	47.73	54.00	-6.27	31.26	3	Vertical	341	2.99	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2432MHz	Pass	PK	2.3884G	59.80	74.00	-14.20	30.90	3	Vertical	341	2.99	-
2432MHz	Pass	PK	2.4268G	106.54	Inf	-Inf	31.03	3	Vertical	341	2.99	-
2432MHz	Pass	PK	2.4988G	58.02	74.00	-15.98	31.26	3	Vertical	341	2.99	-
2432MHz	Pass	AV	2.389998G	53.48	54.00	-0.52	30.91	3	Horizontal	40	2.33	-
2432MHz	Pass	AV	2.4352G	104.45	Inf	-Inf	31.05	3	Horizontal	40	2.33	-
2432MHz	Pass	AV	2.483502G	48.84	54.00	-5.16	31.21	3	Horizontal	40	2.33	-
2432MHz	Pass	PK	2.3884G	66.98	74.00	-7.02	30.90	3	Horizontal	40	2.33	-
2432MHz	Pass	PK	2.436G	113.04	Inf	-Inf	31.06	3	Horizontal	40	2.33	-
2432MHz	Pass	PK	2.4952G	59.41	74.00	-14.59	31.25	3	Horizontal	40	2.33	-
2437MHz	Pass	AV	2.3898G	47.22	54.00	-6.78	30.91	3	Vertical	329	2.28	-
2437MHz	Pass	AV	2.4402G	98.13	Inf	-Inf	31.07	3	Vertical	329	2.28	-
2437MHz	Pass	AV	2.4838G	47.68	54.00	-6.32	31.21	3	Vertical	329	2.28	-
2437MHz	Pass	PK	2.3882G	58.19	74.00	-15.81	30.90	3	Vertical	329	2.28	-
2437MHz	Pass	PK	2.4398G	107.12	Inf	-Inf	31.07	3	Vertical	329	2.28	-
2437MHz	Pass	PK	2.4858G	57.91	74.00	-16.09	31.22	3	Vertical	329	2.28	-
2437MHz	Pass	AV	2.3894G	53.60	54.00	-0.40	30.91	3	Horizontal	33	1.89	-
2437MHz	Pass	AV	2.4394G	105.78	Inf	-Inf	31.07	3	Horizontal	33	1.89	-
2437MHz	Pass	AV	2.4838G	50.43	54.00	-3.57	31.21	3	Horizontal	33	1.89	-
2437MHz	Pass	PK	2.3858G	66.07	74.00	-7.93	30.90	3	Horizontal	33	1.89	-
2437MHz	Pass	PK	2.4402G	114.71	Inf	-Inf	31.07	3	Horizontal	33	1.89	-
2437MHz	Pass	PK	2.4838G	62.11	74.00	-11.89	31.21	3	Horizontal	33	1.89	-
2437MHz	Pass	AV	4.874G	38.36	54.00	-15.64	2.03	3	Vertical	197	1.49	-
2437MHz	Pass	AV	5G	47.17	54.00	-6.83	2.36	3	Vertical	175	1.55	-
2437MHz	Pass	PK	4.87468G	50.51	74.00	-23.49	2.03	3	Vertical	197	1.49	-
2437MHz	Pass	PK	5G	52.34	74.00	-21.66	2.36	3	Vertical	175	1.55	-
2437MHz	Pass	AV	4.8763G	39.88	54.00	-14.12	2.04	3	Horizontal	325	3.05	-
2437MHz	Pass	AV	4.999944G	51.53	54.00	-2.47	2.36	3	Horizontal	120	1.13	-
2437MHz	Pass	PK	4.8759G	52.17	74.00	-21.83	2.03	3	Horizontal	325	3.05	-
2437MHz	Pass	PK	4.999944G	54.72	74.00	-19.28	2.36	3	Horizontal	126	1.13	-
2447MHz	Pass	AV	2.4502G	97.91	Inf	-Inf	31.10	3	Vertical	333	1.47	-
2447MHz	Pass	AV	2.483502G	49.05	54.00	-4.95	31.21	3	Vertical	333	1.47	-
2447MHz	Pass	PK	2.4502G	106.99	Inf	-Inf	31.10	3	Vertical	333	1.47	-
2447MHz	Pass	PK	2.4836G	60.95	74.00	-13.05	31.21	3	Vertical	333	1.47	-
2447MHz	Pass	AV	2.4502G	104.37	Inf	-Inf	31.10	3	Horizontal	34	2.07	-
2447MHz	Pass	AV	2.483502G	53.45	54.00	-0.55	31.21	3	Horizontal	34	2.07	-
2447MHz	Pass	PK	2.4502G	113.47	Inf	-Inf	31.10	3	Horizontal	34	2.07	-
2447MHz	Pass	PK	2.483502G	67.13	74.00	-6.87	31.21	3	Horizontal	34	2.07	-
2452MHz	Pass	AV	2.4488G	96.92	Inf	-Inf	31.10	3	Vertical	332	1.84	-
2452MHz	Pass	AV	2.4836G	49.47	54.00	-4.53	31.21	3	Vertical	332	1.84	-
2452MHz	Pass	PK	2.4504G	105.71	Inf	-Inf	31.10	3	Vertical	332	1.84	-
2452MHz	Pass	PK	2.483502G	62.01	74.00	-11.99	31.21	3	Vertical	332	1.84	-
2452MHz	Pass	AV	2.4554G	103.60	Inf	-Inf	31.12	3	Horizontal	31	2.82	-
2452MHz	Pass	AV	2.483502G	52.78	54.00	-1.22	31.21	3	Horizontal	31	2.82	-
2452MHz	Pass	PK	2.4552G	112.58	Inf	-Inf	31.12	3	Horizontal	31	2.82	-
2452MHz	Pass	PK	2.4842G	64.26	74.00	-9.74	31.21	3	Horizontal	31	2.82	-
2457MHz	Pass	AV	2.4518G	96.28	Inf	-Inf	31.11	3	Vertical	332	1.47	-
2457MHz	Pass	AV	2.483502G	49.47	54.00	-4.53	31.21	3	Vertical	332	1.47	-
2457MHz	Pass	PK	2.4618G	104.92	Inf	-Inf	31.14	3	Vertical	332	1.47	-
2457MHz	Pass	PK	2.4838G	62.61	74.00	-11.39	31.21	3	Vertical	332	1.47	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2457MHz	Pass	AV	2.4602G	103.44	Inf	-Inf	31.13	3	Horizontal	39	2.84	-
2457MHz	Pass	AV	2.483502G	53.82	54.00	-0.18	31.21	3	Horizontal	39	2.84	-
2457MHz	Pass	PK	2.46G	112.37	Inf	-Inf	31.13	3	Horizontal	39	2.84	-
2457MHz	Pass	PK	2.4838G	66.92	74.00	-7.08	31.21	3	Horizontal	39	2.84	-
2462MHz	Pass	AV	2.4654G	93.33	Inf	-Inf	31.15	3	Vertical	328	1.78	-
2462MHz	Pass	AV	2.483502G	50.05	54.00	-3.95	31.21	3	Vertical	328	1.78	-
2462MHz	Pass	PK	2.466G	102.13	Inf	-Inf	31.15	3	Vertical	328	1.78	-
2462MHz	Pass	PK	2.4836G	60.40	74.00	-13.60	31.21	3	Vertical	328	1.78	-
2462MHz	Pass	AV	2.467G	101.19	Inf	-Inf	31.15	3	Horizontal	34	2.34	-
2462MHz	Pass	AV	2.483502G	53.19	54.00	-0.81	31.21	3	Horizontal	34	2.34	-
2462MHz	Pass	PK	2.468G	109.99	Inf	-Inf	31.16	3	Horizontal	34	2.34	-
2462MHz	Pass	PK	2.483502G	66.22	74.00	-7.78	31.21	3	Horizontal	34	2.34	-
2462MHz	Pass	AV	4.9252G	35.57	54.00	-18.43	2.16	3	Vertical	193	1.55	-
2462MHz	Pass	AV	5G	47.22	54.00	-6.78	2.36	3	Vertical	173	1.52	-
2462MHz	Pass	PK	4.9184G	46.95	74.00	-27.05	2.14	3	Vertical	193	1.55	-
2462MHz	Pass	PK	5G	52.54	74.00	-21.46	2.36	3	Vertical	173	1.52	-
2462MHz	Pass	AV	4.926G	37.31	54.00	-16.69	2.16	3	Horizontal	329	1.49	-
2462MHz	Pass	AV	5G	51.84	54.00	-2.16	2.36	3	Horizontal	125	1.10	-
2462MHz	Pass	PK	4.9261G	49.41	74.00	-24.59	2.16	3	Horizontal	329	1.49	-
2462MHz	Pass	PK	5G	55.21	74.00	-18.79	2.36	3	Horizontal	125	1.10	-
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3898G	47.69	54.00	-6.31	30.91	3	Vertical	347	2.98	-
2412MHz	Pass	AV	2.4174G	90.35	Inf	-Inf	31.00	3	Vertical	347	2.98	-
2412MHz	Pass	PK	2.3896G	59.46	74.00	-14.54	30.91	3	Vertical	347	2.98	-
2412MHz	Pass	PK	2.416G	99.08	Inf	-Inf	30.99	3	Vertical	347	2.98	-
2412MHz	Pass	AV	2.389998G	53.82	54.00	-0.18	30.91	3	Horizontal	39	2.67	-
2412MHz	Pass	AV	2.4152G	96.60	Inf	-Inf	30.99	3	Horizontal	39	2.67	-
2412MHz	Pass	PK	2.389998G	65.25	74.00	-8.75	30.91	3	Horizontal	39	2.67	-
2412MHz	Pass	PK	2.416G	105.50	Inf	-Inf	30.99	3	Horizontal	39	2.67	-
2412MHz	Pass	AV	4.82408G	32.52	54.00	-21.48	1.92	3	Vertical	211	2.29	-
2412MHz	Pass	AV	5.000052G	46.94	54.00	-7.06	2.36	3	Vertical	180	1.49	-
2412MHz	Pass	PK	4.821964G	45.37	74.00	-28.63	1.91	3	Vertical	211	2.29	-
2412MHz	Pass	PK	5.000052G	52.50	74.00	-21.50	2.36	3	Vertical	180	1.49	-
2412MHz	Pass	AV	4.819289G	33.65	54.00	-20.35	1.90	3	Horizontal	63	2.35	-
2412MHz	Pass	AV	5G	51.49	54.00	-2.51	2.36	3	Horizontal	120	1.15	-
2412MHz	Pass	PK	4.822962G	45.94	74.00	-28.06	1.91	3	Horizontal	63	2.35	-
2412MHz	Pass	PK	5G	54.37	74.00	-19.63	2.36	3	Horizontal	120	1.15	-
2417MHz	Pass	AV	2.3898G	47.69	54.00	-6.31	30.91	3	Vertical	331	2.99	-
2417MHz	Pass	AV	2.4222G	93.46	Inf	-Inf	31.01	3	Vertical	331	2.99	-
2417MHz	Pass	PK	2.3882G	59.09	74.00	-14.91	30.90	3	Vertical	331	2.99	-
2417MHz	Pass	PK	2.4208G	102.26	Inf	-Inf	31.01	3	Vertical	331	2.99	-
2417MHz	Pass	AV	2.389998G	53.48	54.00	-0.52	30.91	3	Horizontal	33	2.26	-
2417MHz	Pass	AV	2.4138G	100.75	Inf	-Inf	30.98	3	Horizontal	33	2.26	-
2417MHz	Pass	PK	2.3888G	66.20	74.00	-7.80	30.90	3	Horizontal	33	2.26	-
2417MHz	Pass	PK	2.4174G	109.33	Inf	-Inf	31.00	3	Horizontal	33	2.26	-
2422MHz	Pass	AV	2.389998G	48.56	54.00	-5.44	30.91	3	Vertical	343	2.99	-
2422MHz	Pass	AV	2.4188G	96.00	Inf	-Inf	31.00	3	Vertical	343	2.99	-
2422MHz	Pass	PK	2.3896G	60.14	74.00	-13.86	30.91	3	Vertical	343	2.99	-
2422MHz	Pass	PK	2.4258G	104.74	Inf	-Inf	31.02	3	Vertical	343	2.99	-



RSE TX above 1GHz Result

Appendix F.2

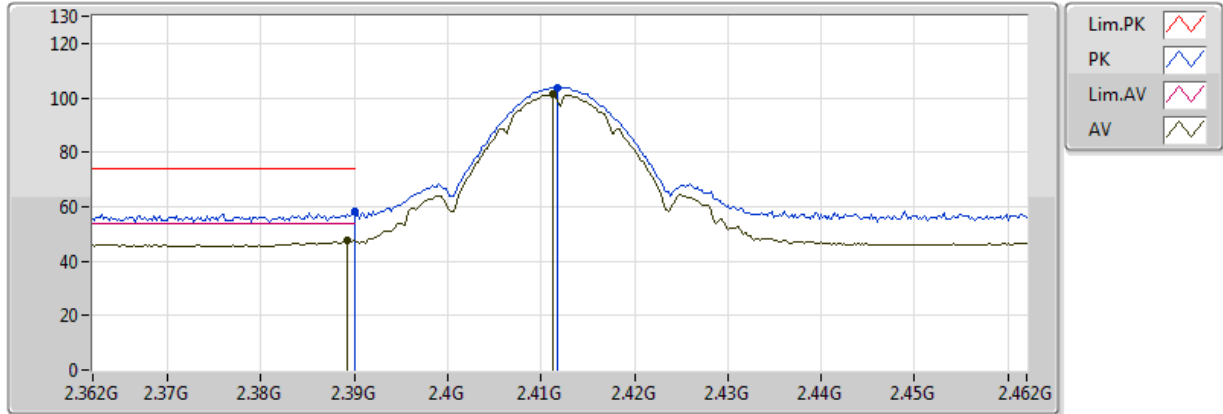
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2422MHz	Pass	AV	2.389998G	53.82	54.00	-0.18	30.91	3	Horizontal	31	2.67	-
2422MHz	Pass	AV	2.4166G	102.29	Inf	-Inf	30.99	3	Horizontal	31	2.67	-
2422MHz	Pass	PK	2.3894G	66.02	74.00	-7.98	30.91	3	Horizontal	31	2.67	-
2422MHz	Pass	PK	2.4182G	110.77	Inf	-Inf	31.00	3	Horizontal	31	2.67	-
2427MHz	Pass	AV	2.389998G	49.16	54.00	-4.84	30.91	3	Vertical	345	2.99	-
2427MHz	Pass	AV	2.4214G	96.74	Inf	-Inf	31.01	3	Vertical	345	2.99	-
2427MHz	Pass	PK	2.3838G	60.75	74.00	-13.25	30.89	3	Vertical	345	2.99	-
2427MHz	Pass	PK	2.4232G	105.57	Inf	-Inf	31.01	3	Vertical	345	2.99	-
2427MHz	Pass	AV	2.3898G	53.71	54.00	-0.29	30.91	3	Horizontal	35	2.58	-
2427MHz	Pass	AV	2.4216G	103.08	Inf	-Inf	31.01	3	Horizontal	35	2.58	-
2427MHz	Pass	PK	2.3882G	66.88	74.00	-7.12	30.90	3	Horizontal	35	2.58	-
2427MHz	Pass	PK	2.4232G	112.07	Inf	-Inf	31.01	3	Horizontal	35	2.58	-
2432MHz	Pass	AV	2.389998G	48.76	54.00	-5.24	30.91	3	Vertical	349	2.98	-
2432MHz	Pass	AV	2.4264G	97.95	Inf	-Inf	31.02	3	Vertical	349	2.98	-
2432MHz	Pass	AV	2.499998G	49.31	54.00	-4.69	31.26	3	Vertical	349	2.98	-
2432MHz	Pass	PK	2.3888G	61.76	74.00	-12.24	30.90	3	Vertical	349	2.98	-
2432MHz	Pass	PK	2.4276G	106.13	Inf	-Inf	31.03	3	Vertical	349	2.98	-
2432MHz	Pass	PK	2.488G	58.28	74.00	-15.72	31.22	3	Vertical	349	2.98	-
2432MHz	Pass	AV	2.3896G	53.82	54.00	-0.18	30.91	3	Horizontal	33	2.52	-
2432MHz	Pass	AV	2.4264G	104.24	Inf	-Inf	31.02	3	Horizontal	33	2.52	-
2432MHz	Pass	AV	2.484G	48.62	54.00	-5.38	31.21	3	Horizontal	33	2.52	-
2432MHz	Pass	PK	2.3888G	69.01	74.00	-4.99	30.90	3	Horizontal	33	2.52	-
2432MHz	Pass	PK	2.428G	112.69	Inf	-Inf	31.03	3	Horizontal	33	2.52	-
2432MHz	Pass	PK	2.4848G	58.92	74.00	-15.08	31.22	3	Horizontal	33	2.52	-
2437MHz	Pass	AV	2.3898G	47.92	54.00	-6.08	30.91	3	Vertical	345	2.98	-
2437MHz	Pass	AV	2.4314G	98.07	Inf	-Inf	31.04	3	Vertical	345	2.98	-
2437MHz	Pass	AV	2.4998G	48.67	54.00	-5.33	31.26	3	Vertical	345	2.98	-
2437MHz	Pass	PK	2.3858G	59.15	74.00	-14.85	30.90	3	Vertical	345	2.98	-
2437MHz	Pass	PK	2.4434G	106.47	Inf	-Inf	31.08	3	Vertical	345	2.98	-
2437MHz	Pass	PK	2.485G	58.29	74.00	-15.71	31.22	3	Vertical	345	2.98	-
2437MHz	Pass	AV	2.3898G	53.71	54.00	-0.29	30.91	3	Horizontal	34	1.90	-
2437MHz	Pass	AV	2.4402G	104.39	Inf	-Inf	31.07	3	Horizontal	34	1.90	-
2437MHz	Pass	AV	2.483502G	51.28	54.00	-2.72	31.21	3	Horizontal	34	1.90	-
2437MHz	Pass	PK	2.3874G	67.08	74.00	-6.92	30.90	3	Horizontal	34	1.90	-
2437MHz	Pass	PK	2.441G	113.18	Inf	-Inf	31.07	3	Horizontal	34	1.90	-
2437MHz	Pass	PK	2.4854G	61.48	74.00	-12.52	31.22	3	Horizontal	34	1.90	-
2437MHz	Pass	AV	4.87376G	37.31	54.00	-16.69	2.03	3	Vertical	146	1.49	-
2437MHz	Pass	AV	5G	46.74	54.00	-7.26	2.36	3	Vertical	174	1.52	-
2437MHz	Pass	PK	4.87664G	49.66	74.00	-24.34	2.04	3	Vertical	146	1.49	-
2437MHz	Pass	PK	5G	52.47	74.00	-21.53	2.36	3	Vertical	174	1.52	-
2437MHz	Pass	AV	4.87664G	38.31	54.00	-15.69	2.04	3	Horizontal	336	1.01	-
2437MHz	Pass	AV	4.99998G	51.71	54.00	-2.29	2.36	3	Horizontal	128	1.13	-
2437MHz	Pass	PK	4.87652G	50.93	74.00	-23.07	2.04	3	Horizontal	336	1.01	-
2437MHz	Pass	PK	4.99998G	54.80	74.00	-19.20	2.36	3	Horizontal	128	1.13	-
2442MHz	Pass	AV	2.3896G	46.98	54.00	-7.02	30.91	3	Vertical	332	1.84	-
2442MHz	Pass	AV	2.4472G	97.63	Inf	-Inf	31.09	3	Vertical	332	1.84	-
2442MHz	Pass	AV	2.483502G	48.84	54.00	-5.16	31.21	3	Vertical	332	1.84	-
2442MHz	Pass	PK	2.3824G	57.91	74.00	-16.09	30.89	3	Vertical	332	1.84	-
2442MHz	Pass	PK	2.4484G	105.90	Inf	-Inf	31.09	3	Vertical	332	1.84	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2442MHz	Pass	PK	2.486G	60.12	74.00	-13.88	31.22	3	Vertical	332	1.84	-
2442MHz	Pass	AV	2.389998G	50.90	54.00	-3.10	30.91	3	Horizontal	38	2.53	-
2442MHz	Pass	AV	2.4472G	104.62	Inf	-Inf	31.09	3	Horizontal	38	2.53	-
2442MHz	Pass	AV	2.483502G	52.36	54.00	-1.64	31.21	3	Horizontal	38	2.53	-
2442MHz	Pass	PK	2.3832G	64.07	74.00	-9.93	30.89	3	Horizontal	38	2.53	-
2442MHz	Pass	PK	2.446G	113.43	Inf	-Inf	31.09	3	Horizontal	38	2.53	-
2442MHz	Pass	PK	2.4848G	66.11	74.00	-7.89	31.22	3	Horizontal	38	2.53	-
2447MHz	Pass	AV	2.45G	96.98	Inf	-Inf	31.10	3	Vertical	331	1.82	-
2447MHz	Pass	AV	2.4838G	49.47	54.00	-4.53	31.21	3	Vertical	331	1.82	-
2447MHz	Pass	PK	2.4498G	105.99	Inf	-Inf	31.10	3	Vertical	331	1.82	-
2447MHz	Pass	PK	2.4836G	62.01	74.00	-11.99	31.21	3	Vertical	331	1.82	-
2447MHz	Pass	AV	2.4522G	104.17	Inf	-Inf	31.11	3	Horizontal	40	2.54	-
2447MHz	Pass	AV	2.483502G	53.45	54.00	-0.55	31.21	3	Horizontal	40	2.54	-
2447MHz	Pass	PK	2.4508G	113.15	Inf	-Inf	31.10	3	Horizontal	40	2.54	-
2447MHz	Pass	PK	2.484G	67.42	74.00	-6.58	31.21	3	Horizontal	40	2.54	-
2452MHz	Pass	AV	2.449G	96.59	Inf	-Inf	31.10	3	Vertical	331	1.86	-
2452MHz	Pass	AV	2.483502G	49.47	54.00	-4.53	31.21	3	Vertical	331	1.86	-
2452MHz	Pass	PK	2.451G	105.14	Inf	-Inf	31.10	3	Vertical	331	1.86	-
2452MHz	Pass	PK	2.484G	62.91	74.00	-11.09	31.21	3	Vertical	331	1.86	-
2452MHz	Pass	AV	2.4574G	103.55	Inf	-Inf	31.12	3	Horizontal	36	2.84	-
2452MHz	Pass	AV	2.483502G	53.19	54.00	-0.81	31.21	3	Horizontal	36	2.84	-
2452MHz	Pass	PK	2.456G	112.45	Inf	-Inf	31.12	3	Horizontal	36	2.84	-
2452MHz	Pass	PK	2.4838G	67.72	74.00	-6.28	31.21	3	Horizontal	36	2.84	-
2457MHz	Pass	AV	2.4624G	95.77	Inf	-Inf	31.14	3	Vertical	329	1.21	-
2457MHz	Pass	AV	2.483502G	48.84	54.00	-5.16	31.21	3	Vertical	329	1.21	-
2457MHz	Pass	PK	2.4632G	104.44	Inf	-Inf	31.14	3	Vertical	329	1.21	-
2457MHz	Pass	PK	2.483502G	59.50	74.00	-14.50	31.21	3	Vertical	329	1.21	-
2457MHz	Pass	AV	2.46G	102.71	Inf	-Inf	31.13	3	Horizontal	39	2.84	-
2457MHz	Pass	AV	2.483502G	53.19	54.00	-0.81	31.21	3	Horizontal	39	2.84	-
2457MHz	Pass	PK	2.4608G	111.57	Inf	-Inf	31.13	3	Horizontal	39	2.84	-
2457MHz	Pass	PK	2.484G	63.57	74.00	-10.43	31.21	3	Horizontal	39	2.84	-
2462MHz	Pass	AV	2.467G	93.40	Inf	-Inf	31.15	3	Vertical	330	1.64	-
2462MHz	Pass	AV	2.483502G	50.24	54.00	-3.76	31.21	3	Vertical	330	1.64	-
2462MHz	Pass	PK	2.466G	102.05	Inf	-Inf	31.15	3	Vertical	330	1.64	-
2462MHz	Pass	PK	2.4842G	61.01	74.00	-12.99	31.21	3	Vertical	330	1.64	-
2462MHz	Pass	AV	2.4674G	99.84	Inf	-Inf	31.16	3	Horizontal	34	1.70	-
2462MHz	Pass	AV	2.483502G	52.78	54.00	-1.22	31.21	3	Horizontal	34	1.70	-
2462MHz	Pass	PK	2.4674G	108.56	Inf	-Inf	31.16	3	Horizontal	34	1.70	-
2462MHz	Pass	PK	2.483502G	64.58	74.00	-9.42	31.21	3	Horizontal	34	1.70	-
2462MHz	Pass	AV	4.92188G	34.81	54.00	-19.19	2.15	3	Vertical	144	1.48	-
2462MHz	Pass	AV	5G	47.46	54.00	-6.54	2.36	3	Vertical	170	1.51	-
2462MHz	Pass	PK	4.92196G	46.79	74.00	-27.21	2.15	3	Vertical	144	1.48	-
2462MHz	Pass	PK	5G	53.04	74.00	-20.96	2.36	3	Vertical	170	1.51	-
2462MHz	Pass	AV	4.92772G	37.17	54.00	-16.83	2.16	3	Horizontal	333	3.07	-
2462MHz	Pass	AV	5G	51.46	54.00	-2.54	2.36	3	Horizontal	130	1.15	-
2462MHz	Pass	PK	4.92192G	50.47	74.00	-23.53	2.15	3	Horizontal	333	3.07	-
2462MHz	Pass	PK	5G	55.26	74.00	-18.74	2.36	3	Horizontal	130	1.15	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

10/05/2018

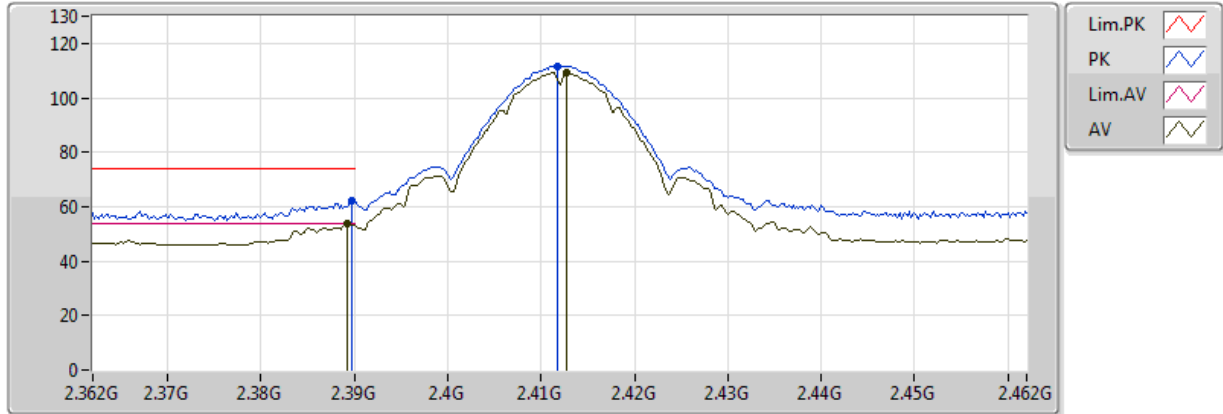


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3892G	47.69	54.00	-6.31	30.91	3	Vertical	332	1.69	-
AV	2.4112G	101.42	Inf	-Inf	30.98	3	Vertical	332	1.69	-
PK	2.389998G	58.34	74.00	-15.66	30.91	3	Vertical	332	1.69	-
PK	2.4118G	103.89	Inf	-Inf	30.98	3	Vertical	332	1.69	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

10/05/2018

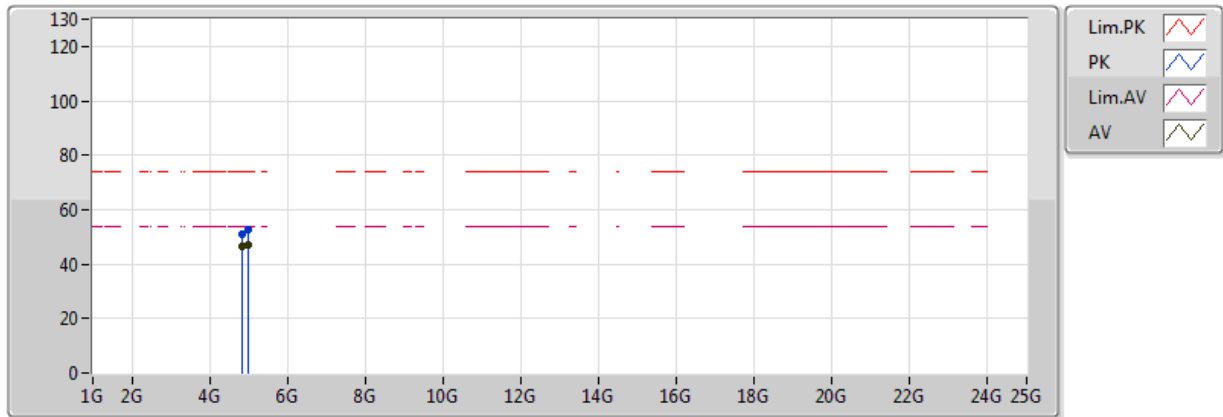


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3892G	53.83	54.00	-0.17	30.91	3	Horizontal	28	2.10	-
AV	2.4128G	109.15	Inf	-Inf	30.98	3	Horizontal	28	2.10	-
PK	2.3898G	62.25	74.00	-11.75	30.91	3	Horizontal	28	2.10	-
PK	2.4118G	111.74	Inf	-Inf	30.98	3	Horizontal	28	2.10	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

10/05/2018

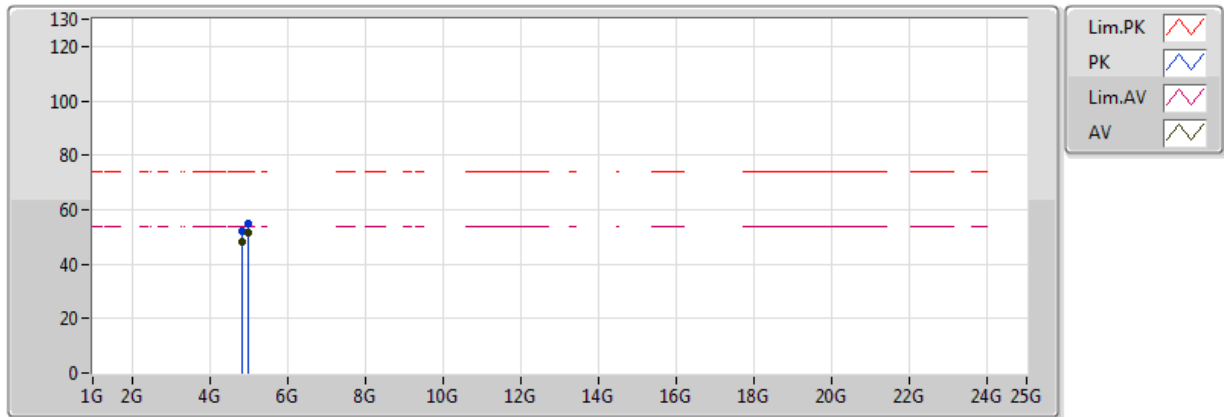


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.824008G	46.78	54.00	-7.22	1.92	3	Vertical	146	1.40	-
AV	4.999936G	47.27	54.00	-6.73	2.36	3	Vertical	176	1.50	-
PK	4.823968G	51.06	74.00	-22.94	1.92	3	Vertical	146	1.40	-
PK	5.00004G	52.94	74.00	-21.06	2.36	3	Vertical	176	1.50	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

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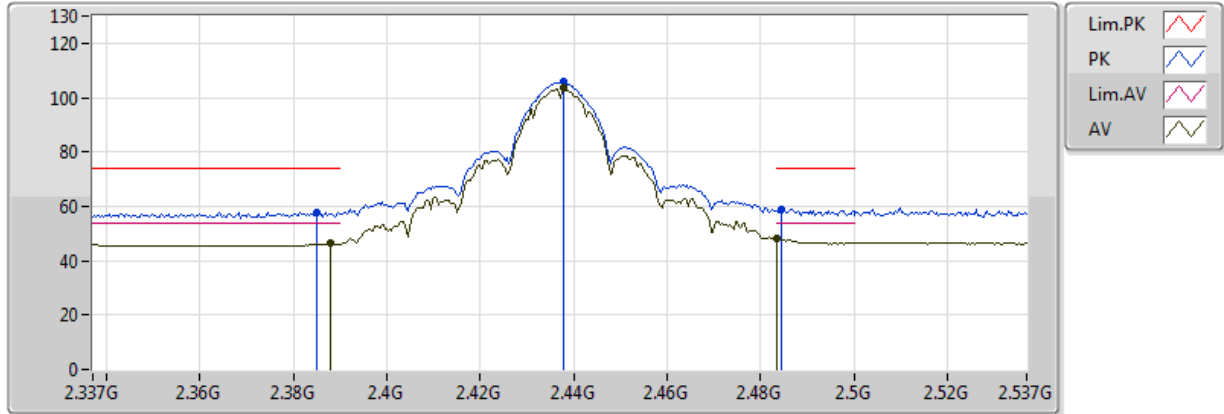


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82402G	47.99	54.00	-6.01	1.92	3	Horizontal	224	3.01	-
AV	4.99996G	51.59	54.00	-2.41	2.36	3	Horizontal	168	1.45	-
PK	4.82393G	52.17	74.00	-21.83	1.92	3	Horizontal	224	3.01	-
PK	4.99986G	55.16	74.00	-18.84	2.36	3	Horizontal	168	1.45	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

10/05/2018

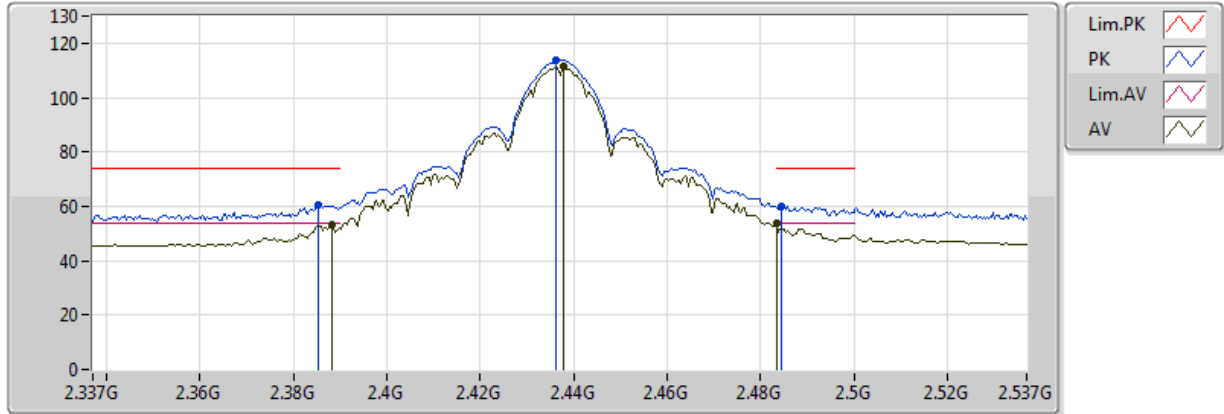


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3878G	46.46	54.00	-7.54	30.90	3	Vertical	328	2.30	-
AV	2.4378G	103.42	Inf	-Inf	31.06	3	Vertical	328	2.30	-
AV	2.483502G	48.16	54.00	-5.84	31.21	3	Vertical	328	2.30	-
PK	2.385G	57.99	74.00	-16.01	30.90	3	Vertical	328	2.30	-
PK	2.4378G	105.73	Inf	-Inf	31.06	3	Vertical	328	2.30	-
PK	2.4846G	59.11	74.00	-14.89	31.21	3	Vertical	328	2.30	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

10/05/2018

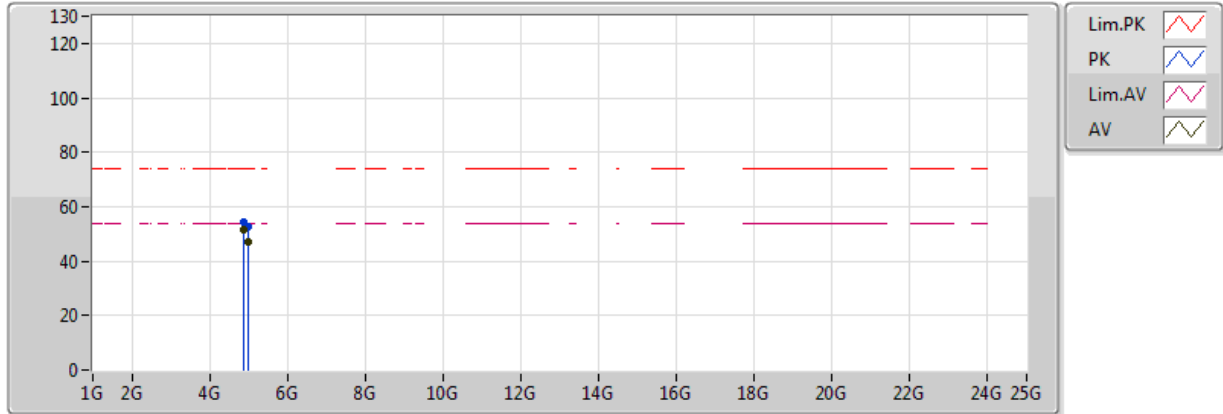


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3882G	53.07	54.00	-0.93	30.90	3	Horizontal	32	1.89	-
AV	2.4378G	111.49	Inf	-Inf	31.06	3	Horizontal	32	1.89	-
AV	2.483502G	53.55	54.00	-0.45	31.21	3	Horizontal	32	1.89	-
PK	2.3854G	60.51	74.00	-13.49	30.90	3	Horizontal	32	1.89	-
PK	2.4362G	113.84	Inf	-Inf	31.06	3	Horizontal	32	1.89	-
PK	2.4846G	59.94	74.00	-14.06	31.21	3	Horizontal	32	1.89	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

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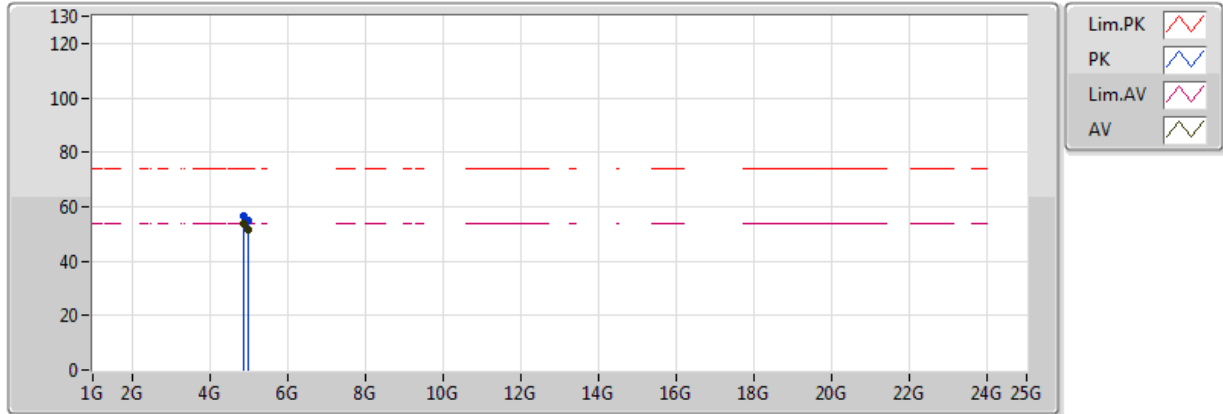


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.874056G	51.34	54.00	-2.66	2.03	3	Vertical	197	1.49	-
AV	5G	46.90	54.00	-7.10	2.36	3	Vertical	172	1.51	-
PK	4.87406G	54.31	74.00	-19.69	2.03	3	Vertical	197	1.49	-
PK	4.99998G	52.49	74.00	-21.51	2.36	3	Vertical	172	1.51	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

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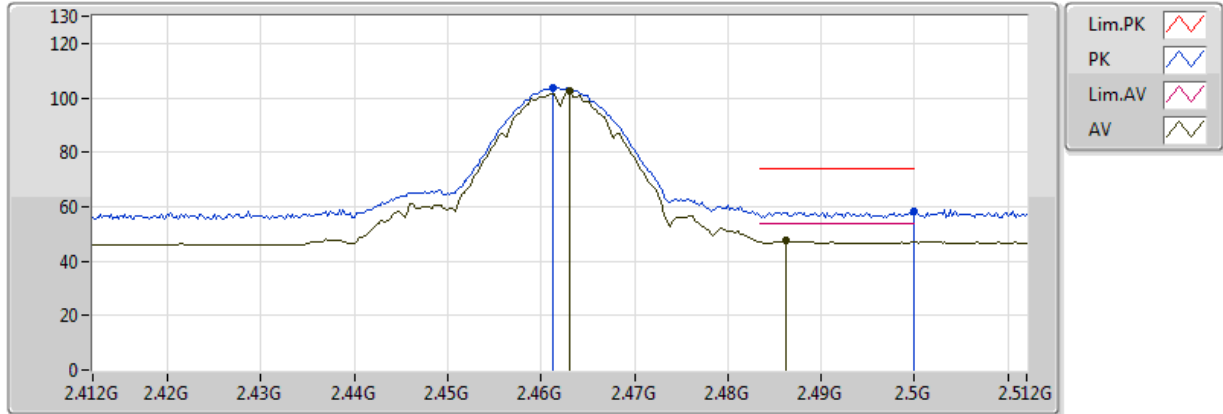


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87402G	53.75	54.00	-0.25	2.03	3	Horizontal	326	3.08	-
AV	5G	51.47	54.00	-2.53	2.36	3	Horizontal	129	1.12	-
PK	4.874016G	56.46	74.00	-17.54	2.03	3	Horizontal	326	3.08	-
PK	5G	54.98	74.00	-19.02	2.36	3	Horizontal	129	1.12	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

10/05/2018

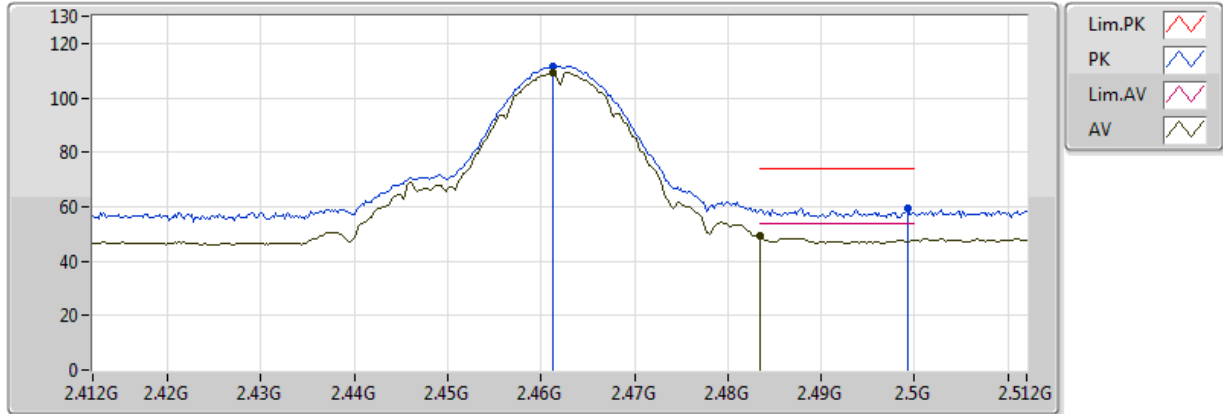


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.463G	102.27	Inf	-Inf	31.14	3	Vertical	326	1.83	-
AV	2.4862G	47.44	54.00	-6.56	31.22	3	Vertical	326	1.83	-
PK	2.4612G	103.80	Inf	-Inf	31.14	3	Vertical	326	1.83	-
PK	2.499998G	58.10	74.00	-15.90	31.26	3	Vertical	326	1.83	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

10/05/2018

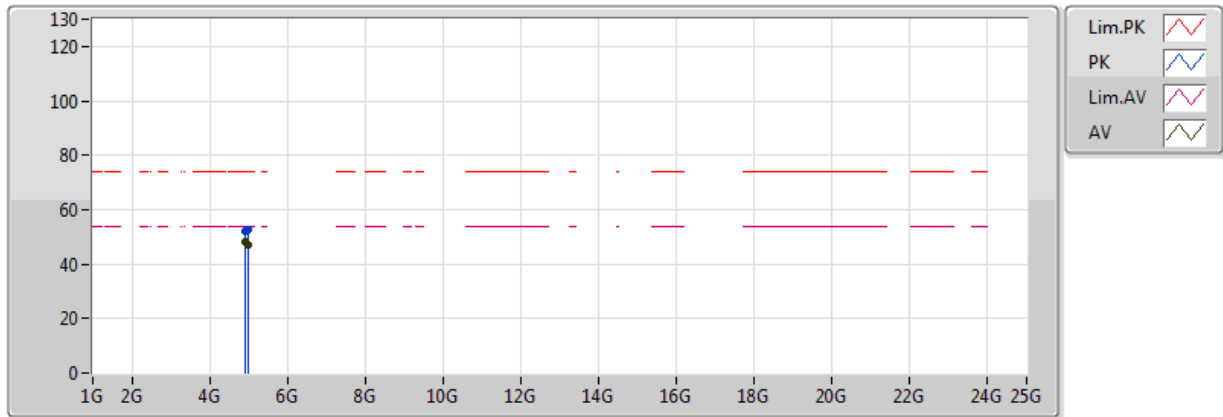


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4612G	109.29	Inf	-Inf	31.14	3	Horizontal	28	2.84	-
AV	2.483502G	49.26	54.00	-4.74	31.21	3	Horizontal	28	2.84	-
PK	2.4612G	111.63	Inf	-Inf	31.14	3	Horizontal	28	2.84	-
PK	2.4992G	59.22	74.00	-14.78	31.26	3	Horizontal	28	2.84	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

10/05/2018

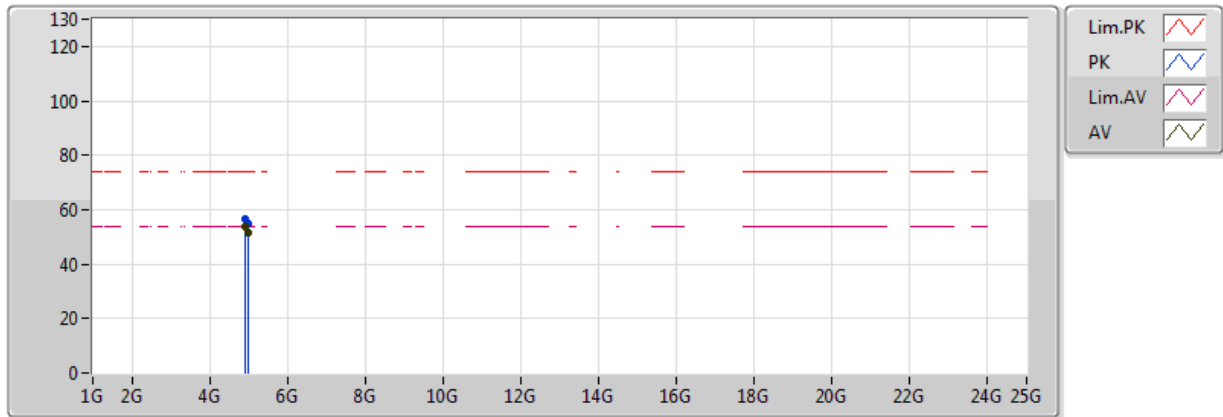


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.923988G	48.32	54.00	-5.68	2.15	3	Vertical	139	3.05	-
AV	5G	47.16	54.00	-6.84	2.36	3	Vertical	173	1.49	-
PK	4.924052G	52.12	74.00	-21.88	2.15	3	Vertical	139	3.05	-
PK	5G	52.68	74.00	-21.32	2.36	3	Vertical	173	1.49	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

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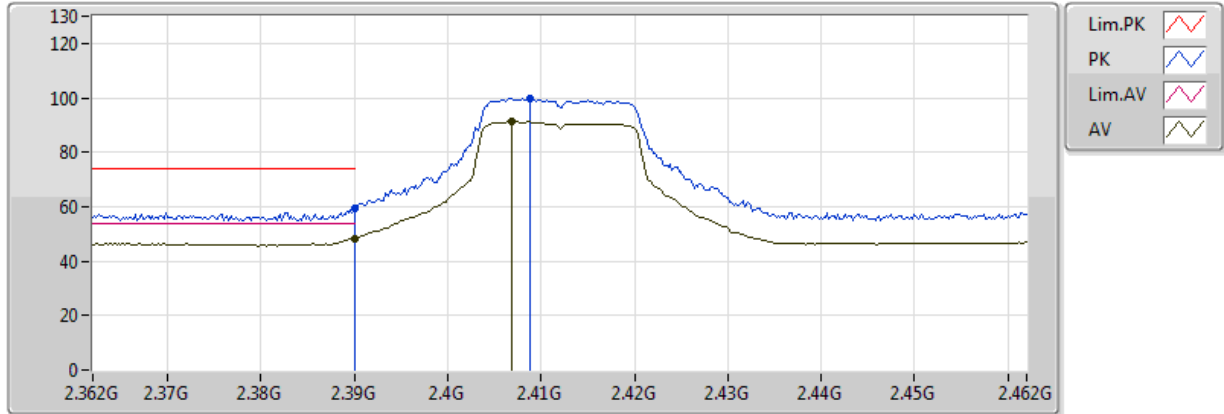


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.924008G	53.66	54.00	-0.34	2.15	3	Horizontal	330	3.09	-
AV	5G	51.62	54.00	-2.38	2.36	3	Horizontal	126	1.13	-
PK	4.92392G	56.43	74.00	-17.57	2.15	3	Horizontal	330	3.09	-
PK	5G	54.66	74.00	-19.34	2.36	3	Horizontal	126	1.13	-

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

10/05/2018

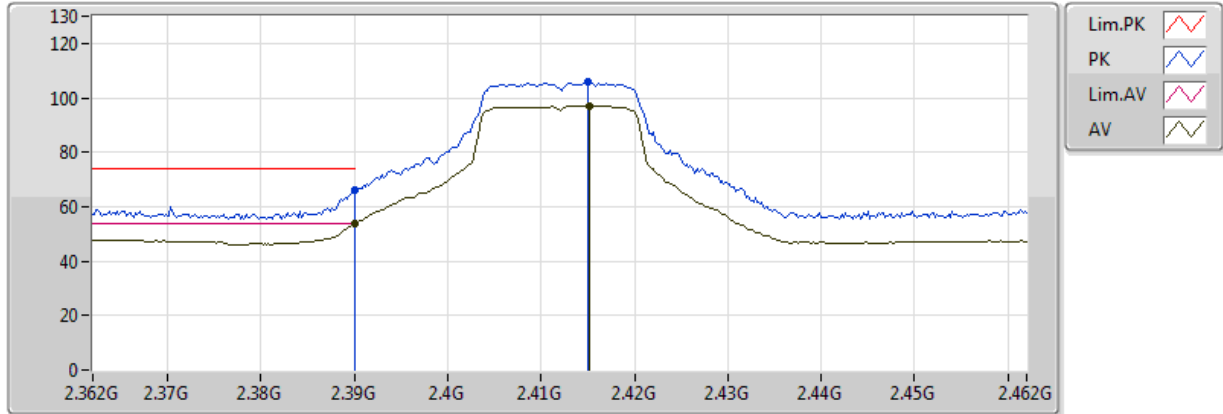


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	48.35	54.00	-5.65	30.91	3	Vertical	331	1.69	-
AV	2.4068G	91.25	Inf	-Inf	30.96	3	Vertical	331	1.69	-
PK	2.389998G	59.41	74.00	-14.59	30.91	3	Vertical	331	1.69	-
PK	2.4088G	99.88	Inf	-Inf	30.97	3	Vertical	331	1.69	-

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

10/05/2018

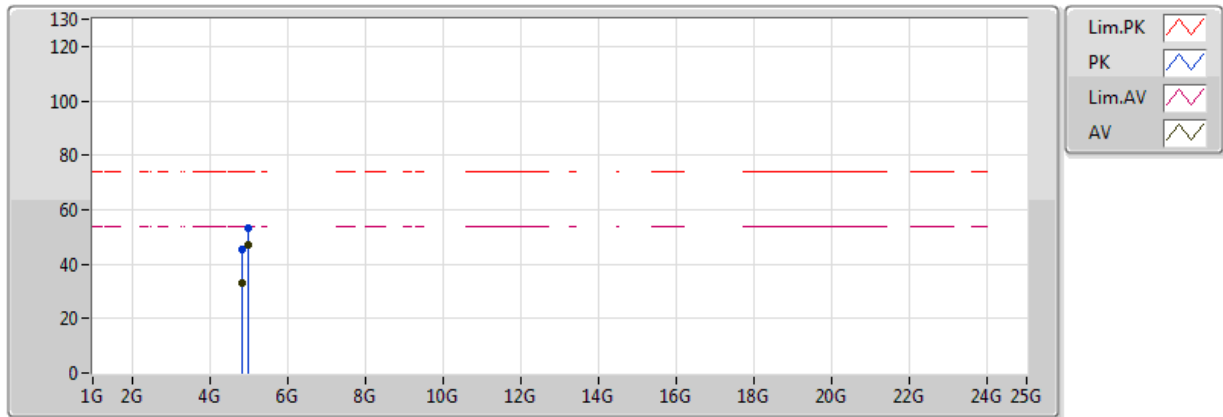


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	53.71	54.00	-0.29	30.91	3	Horizontal	19	3.02	-
AV	2.4152G	97.16	Inf	-Inf	30.99	3	Horizontal	19	3.02	-
PK	2.389998G	66.08	74.00	-7.92	30.91	3	Horizontal	19	3.02	-
PK	2.415G	105.89	Inf	-Inf	30.99	3	Horizontal	19	3.02	-

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

10/05/2018

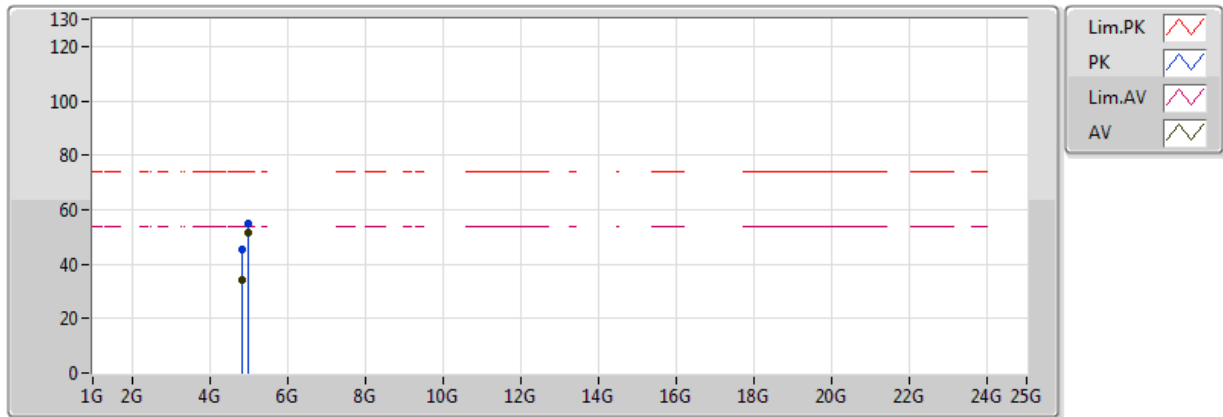


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82228G	33.14	54.00	-20.86	1.91	3	Vertical	327	1.16	-
AV	5G	47.12	54.00	-6.88	2.36	3	Vertical	172	1.53	-
PK	4.83264G	45.22	74.00	-28.78	1.94	3	Vertical	327	1.16	-
PK	5G	53.05	74.00	-20.95	2.36	3	Vertical	172	1.53	-

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

10/05/2018

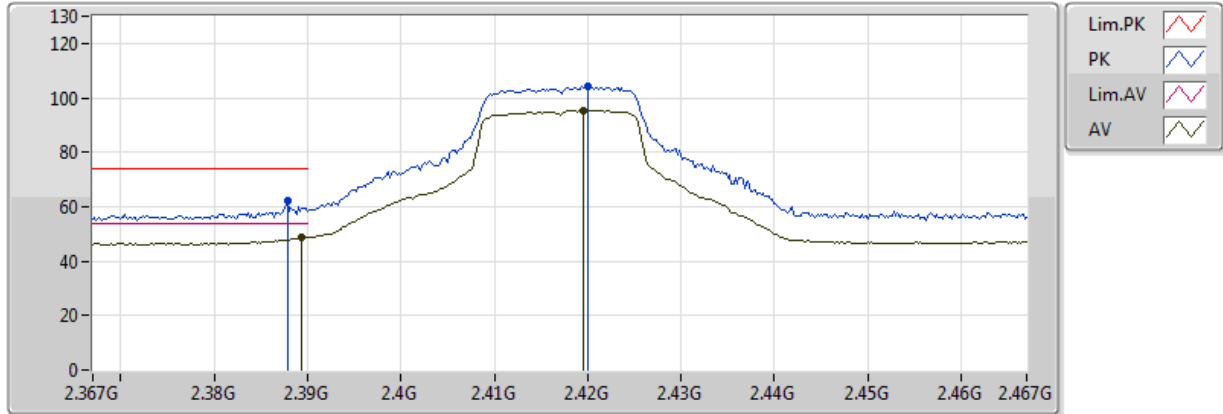


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82408G	33.92	54.00	-20.08	1.92	3	Horizontal	221	2.28	-
AV	5G	51.37	54.00	-2.63	2.36	3	Horizontal	130	1.26	-
PK	4.82132G	45.62	74.00	-28.38	1.91	3	Horizontal	221	2.28	-
PK	5G	54.79	74.00	-19.21	2.36	3	Horizontal	130	1.26	-

802.11g_Nss1,(6Mbps)_1TX

2417MHz_TX

11/05/2018

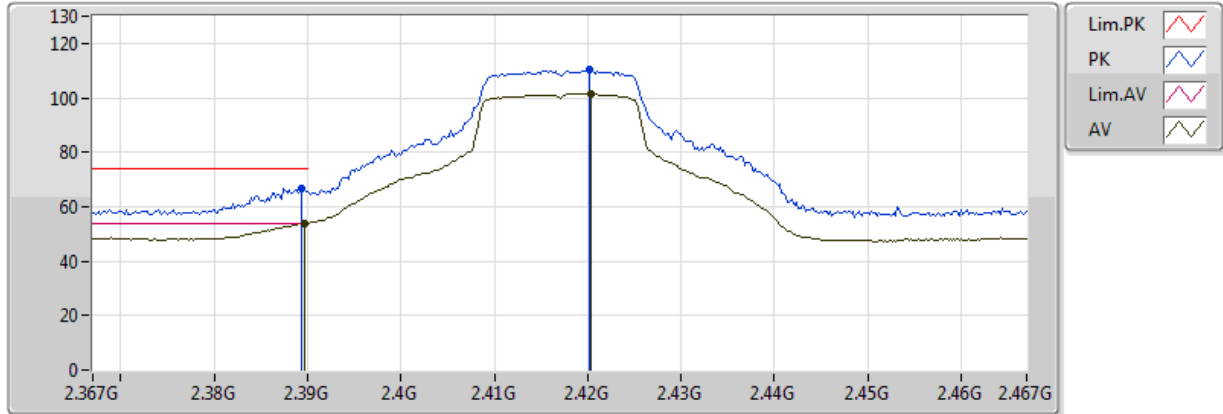


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	48.76	54.00	-5.24	30.91	3	Vertical	345	2.99	-
AV	2.4196G	95.33	Inf	-Inf	31.00	3	Vertical	345	2.99	-
PK	2.3878G	62.15	74.00	-11.85	30.90	3	Vertical	345	2.99	-
PK	2.42G	104.27	Inf	-Inf	31.00	3	Vertical	345	2.99	-

802.11g_Nss1,(6Mbps)_1TX

2417MHz_TX

11/05/2018

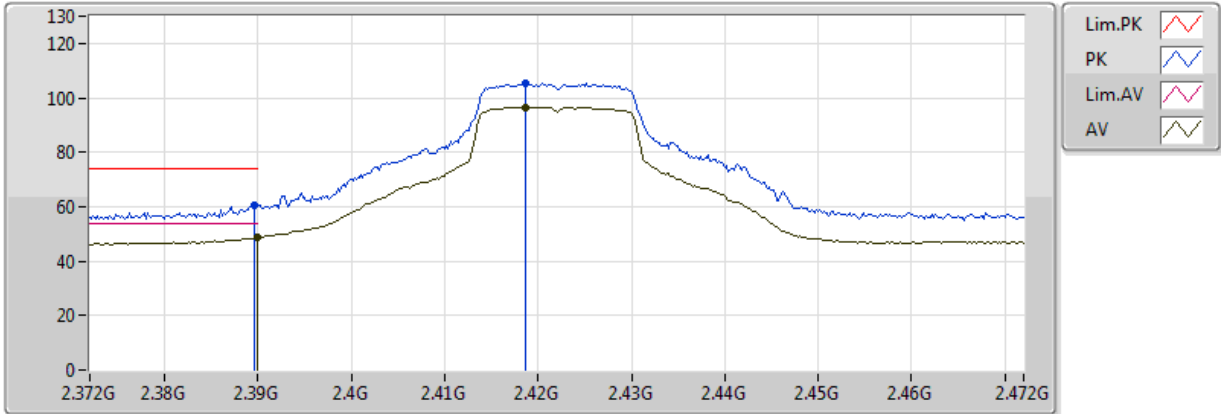


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3896G	53.82	54.00	-0.18	30.91	3	Horizontal	34	2.10	-
AV	2.4204G	101.53	Inf	-Inf	31.01	3	Horizontal	34	2.10	-
PK	2.3894G	66.96	74.00	-7.04	30.91	3	Horizontal	34	2.10	-
PK	2.4202G	110.37	Inf	-Inf	31.00	3	Horizontal	34	2.10	-

802.11g_Nss1,(6Mbps)_1TX

2422MHz_TX

11/05/2018

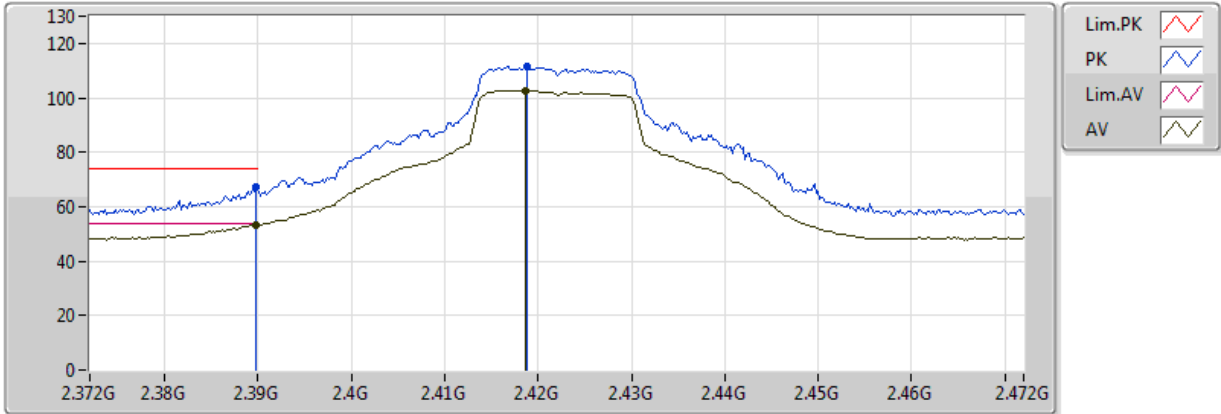


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	48.56	54.00	-5.44	30.91	3	Vertical	345	2.99	-
AV	2.4186G	96.56	Inf	-Inf	31.00	3	Vertical	345	2.99	-
PK	2.3896G	60.41	74.00	-13.59	30.91	3	Vertical	345	2.99	-
PK	2.4186G	105.32	Inf	-Inf	31.00	3	Vertical	345	2.99	-

802.11g_Nss1,(6Mbps)_1TX

2422MHz_TX

11/05/2018

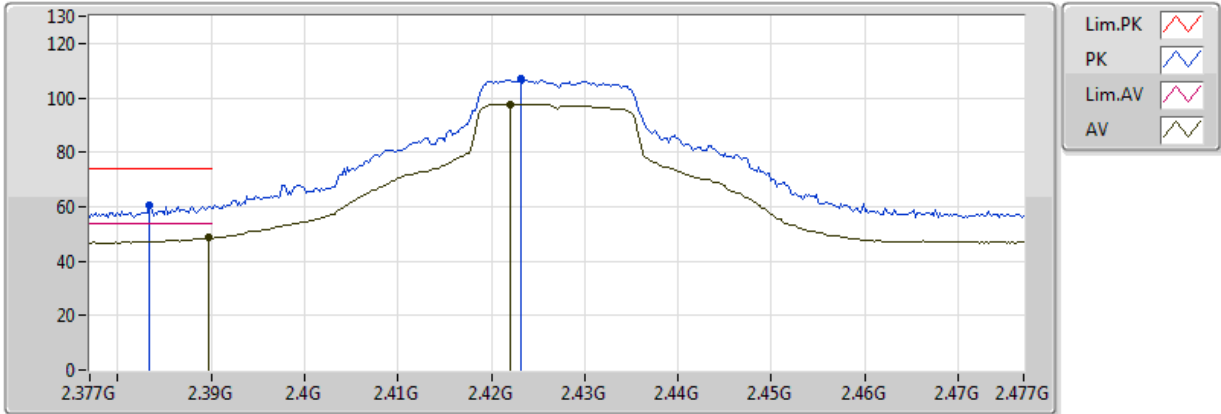


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	53.24	54.00	-0.76	30.91	3	Horizontal	34	2.09	-
AV	2.4186G	102.76	Inf	-Inf	31.00	3	Horizontal	34	2.09	-
PK	2.3898G	67.23	74.00	-6.77	30.91	3	Horizontal	34	2.09	-
PK	2.4188G	111.26	Inf	-Inf	31.00	3	Horizontal	34	2.09	-

802.11g_Nss1,(6Mbps)_1TX

2427MHz_TX

11/05/2018

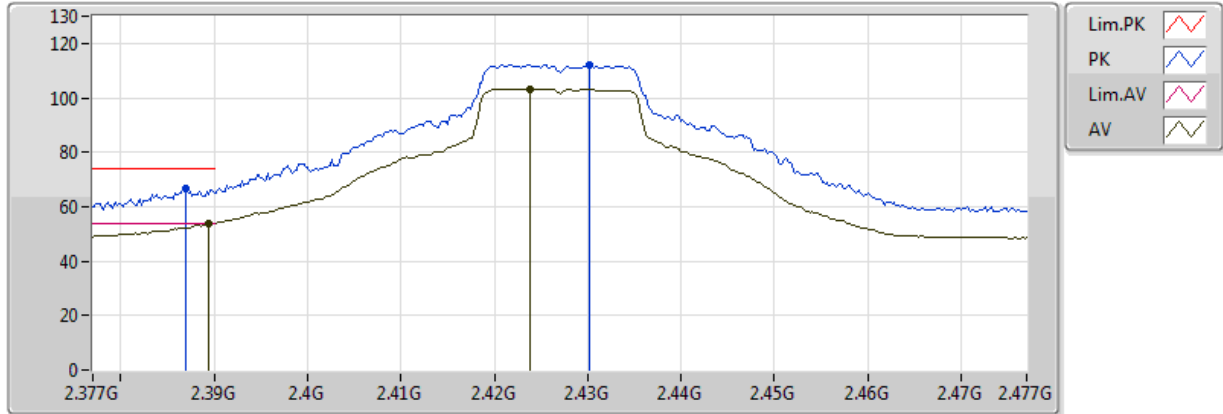


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	48.56	54.00	-5.44	30.91	3	Vertical	345	2.99	-
AV	2.422G	97.78	Inf	-Inf	31.01	3	Vertical	345	2.99	-
PK	2.3834G	60.28	74.00	-13.72	30.89	3	Vertical	345	2.99	-
PK	2.4232G	106.76	Inf	-Inf	31.01	3	Vertical	345	2.99	-

802.11g_Nss1,(6Mbps)_1TX

2427MHz_TX

11/05/2018

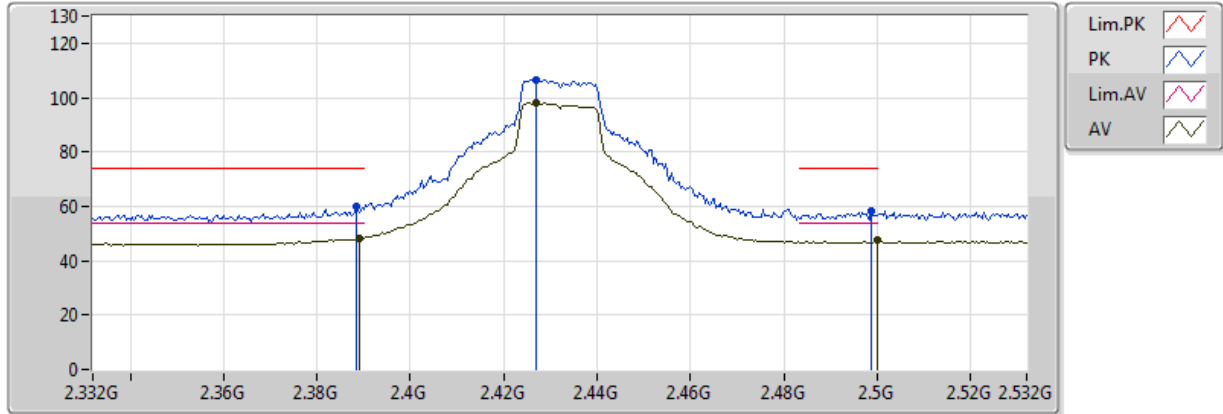


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	53.82	54.00	-0.18	30.91	3	Horizontal	36	2.37	-
AV	2.4238G	103.28	Inf	-Inf	31.02	3	Horizontal	36	2.37	-
PK	2.387G	66.47	74.00	-7.53	30.90	3	Horizontal	36	2.37	-
PK	2.4302G	112.12	Inf	-Inf	31.04	3	Horizontal	36	2.37	-

802.11g_Nss1,(6Mbps)_1TX

2432MHz_TX

11/05/2018

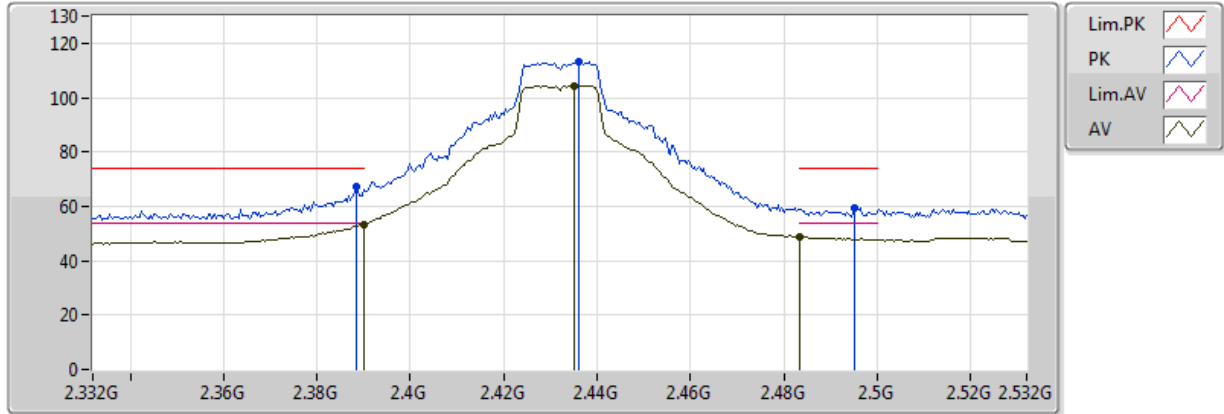


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3892G	48.35	54.00	-5.65	30.91	3	Vertical	341	2.99	-
AV	2.4268G	98.01	Inf	-Inf	31.03	3	Vertical	341	2.99	-
AV	2.499998G	47.73	54.00	-6.27	31.26	3	Vertical	341	2.99	-
PK	2.3884G	59.80	74.00	-14.20	30.90	3	Vertical	341	2.99	-
PK	2.4268G	106.54	Inf	-Inf	31.03	3	Vertical	341	2.99	-
PK	2.4988G	58.02	74.00	-15.98	31.26	3	Vertical	341	2.99	-

802.11g_Nss1,(6Mbps)_1TX

2432MHz_TX

11/05/2018

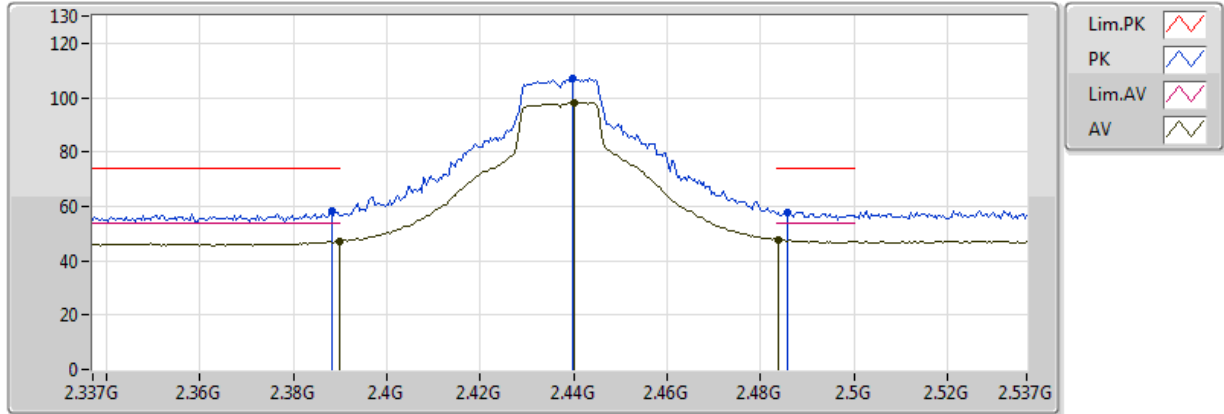


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	53.48	54.00	-0.52	30.91	3	Horizontal	40	2.33	-
AV	2.4352G	104.45	Inf	-Inf	31.05	3	Horizontal	40	2.33	-
AV	2.483502G	48.84	54.00	-5.16	31.21	3	Horizontal	40	2.33	-
PK	2.3884G	66.98	74.00	-7.02	30.90	3	Horizontal	40	2.33	-
PK	2.436G	113.04	Inf	-Inf	31.06	3	Horizontal	40	2.33	-
PK	2.4952G	59.41	74.00	-14.59	31.25	3	Horizontal	40	2.33	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

11/05/2018

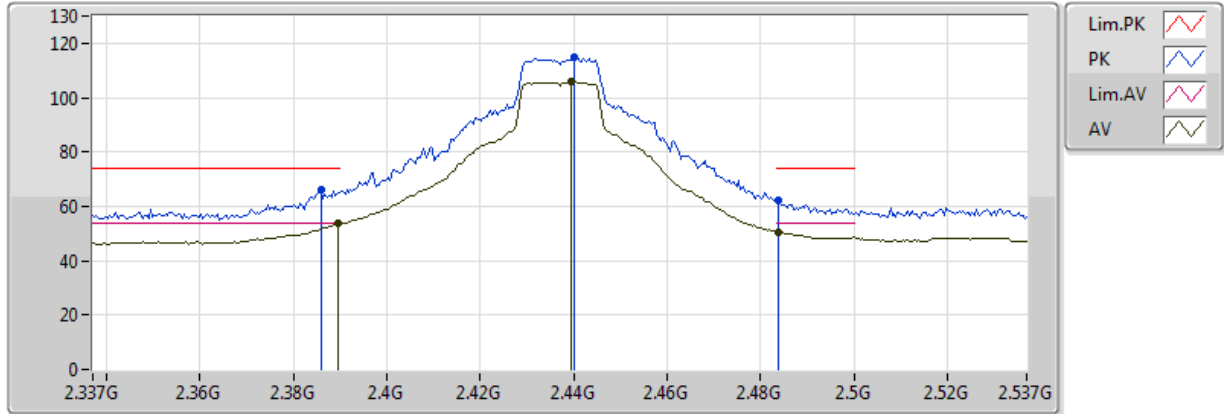


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.22	54.00	-6.78	30.91	3	Vertical	329	2.28	-
AV	2.4402G	98.13	Inf	-Inf	31.07	3	Vertical	329	2.28	-
AV	2.4838G	47.68	54.00	-6.32	31.21	3	Vertical	329	2.28	-
PK	2.3882G	58.19	74.00	-15.81	30.90	3	Vertical	329	2.28	-
PK	2.4398G	107.12	Inf	-Inf	31.07	3	Vertical	329	2.28	-
PK	2.4858G	57.91	74.00	-16.09	31.22	3	Vertical	329	2.28	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

11/05/2018

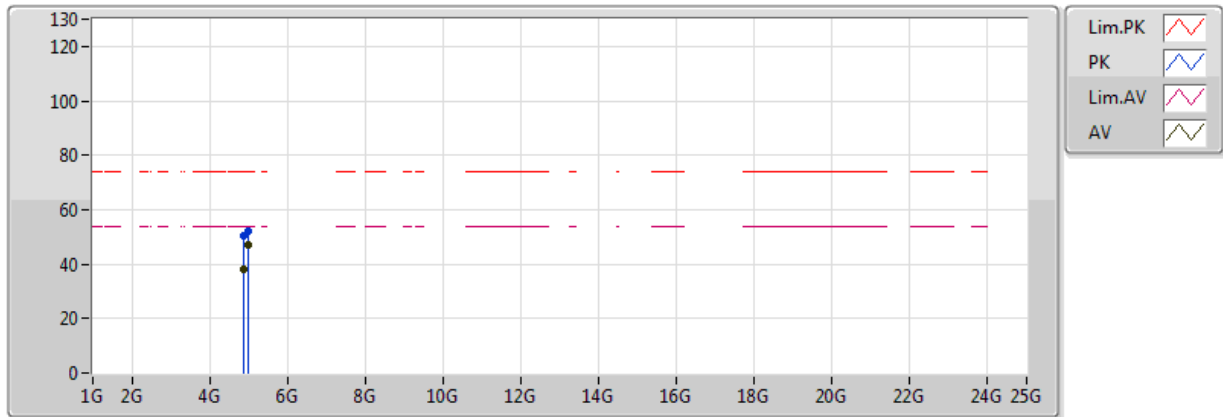


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	53.60	54.00	-0.40	30.91	3	Horizontal	33	1.89	-
AV	2.4394G	105.78	Inf	-Inf	31.07	3	Horizontal	33	1.89	-
AV	2.4838G	50.43	54.00	-3.57	31.21	3	Horizontal	33	1.89	-
PK	2.3858G	66.07	74.00	-7.93	30.90	3	Horizontal	33	1.89	-
PK	2.4402G	114.71	Inf	-Inf	31.07	3	Horizontal	33	1.89	-
PK	2.4838G	62.11	74.00	-11.89	31.21	3	Horizontal	33	1.89	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

11/05/2018

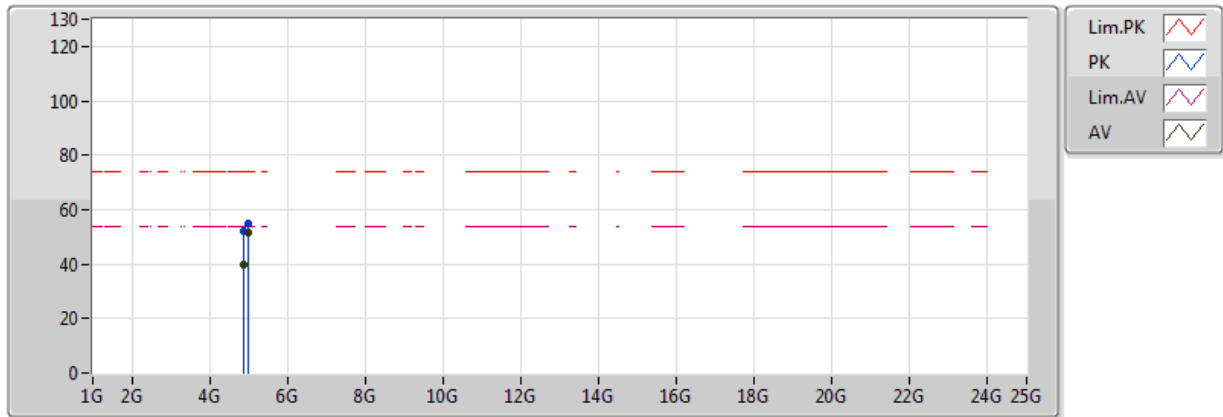


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.874G	38.36	54.00	-15.64	2.03	3	Vertical	197	1.49	-
AV	5G	47.17	54.00	-6.83	2.36	3	Vertical	175	1.55	-
PK	4.87468G	50.51	74.00	-23.49	2.03	3	Vertical	197	1.49	-
PK	5G	52.34	74.00	-21.66	2.36	3	Vertical	175	1.55	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

11/05/2018

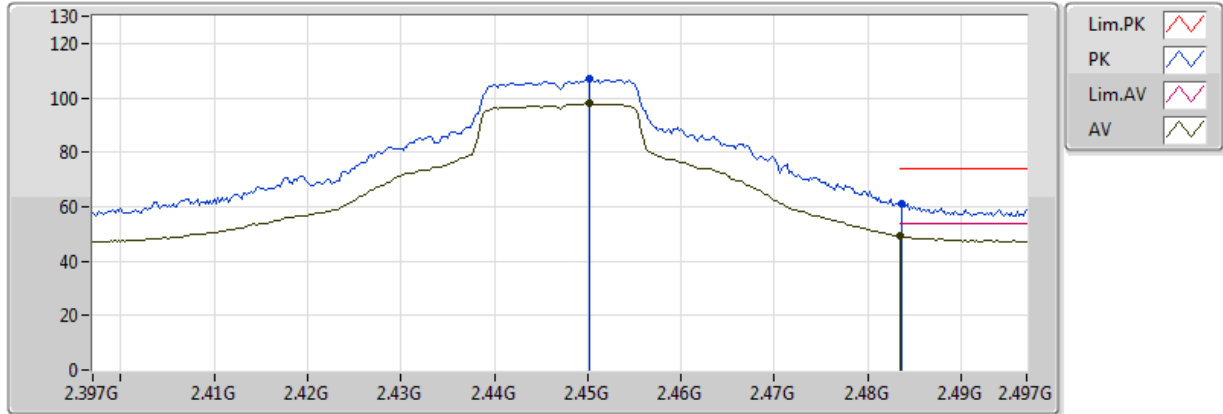


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8763G	39.88	54.00	-14.12	2.04	3	Horizontal	325	3.05	-
AV	4.999944G	51.53	54.00	-2.47	2.36	3	Horizontal	120	1.13	-
PK	4.8759G	52.17	74.00	-21.83	2.03	3	Horizontal	325	3.05	-
PK	4.999944G	54.72	74.00	-19.28	2.36	3	Horizontal	126	1.13	-

802.11g_Nss1,(6Mbps)_1TX

2447MHz_TX

11/05/2018

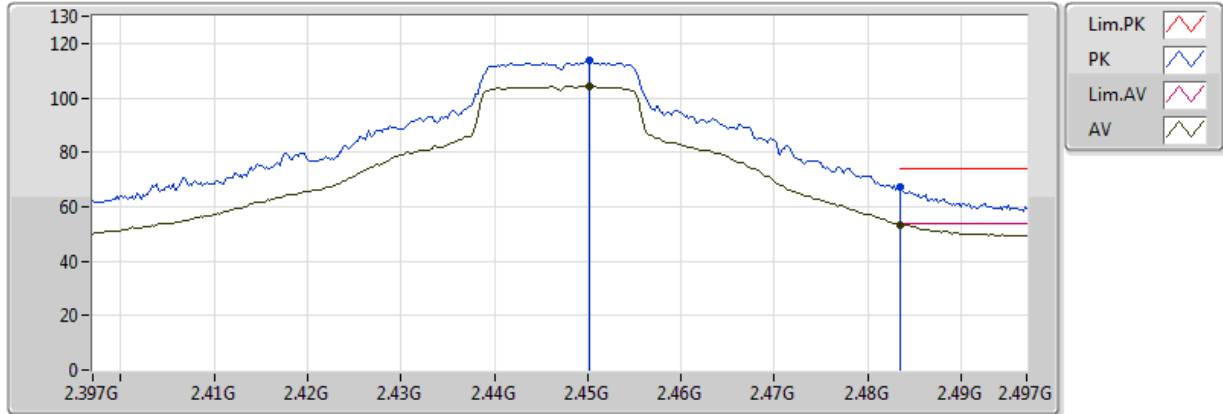


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4502G	97.91	Inf	-Inf	31.10	3	Vertical	333	1.47	-
AV	2.483502G	49.05	54.00	-4.95	31.21	3	Vertical	333	1.47	-
PK	2.4502G	106.99	Inf	-Inf	31.10	3	Vertical	333	1.47	-
PK	2.4836G	60.95	74.00	-13.05	31.21	3	Vertical	333	1.47	-

802.11g_Nss1,(6Mbps)_1TX

2447MHz_TX

11/05/2018

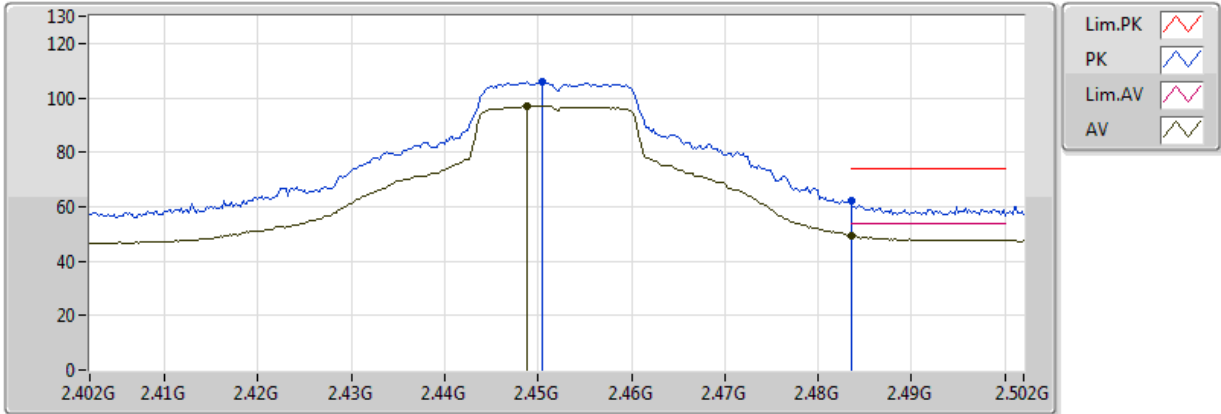


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4502G	104.37	Inf	-Inf	31.10	3	Horizontal	34	2.07	-
AV	2.483502G	53.45	54.00	-0.55	31.21	3	Horizontal	34	2.07	-
PK	2.4502G	113.47	Inf	-Inf	31.10	3	Horizontal	34	2.07	-
PK	2.483502G	67.13	74.00	-6.87	31.21	3	Horizontal	34	2.07	-

802.11g_Nss1,(6Mbps)_1TX

2452MHz_TX

11/05/2018

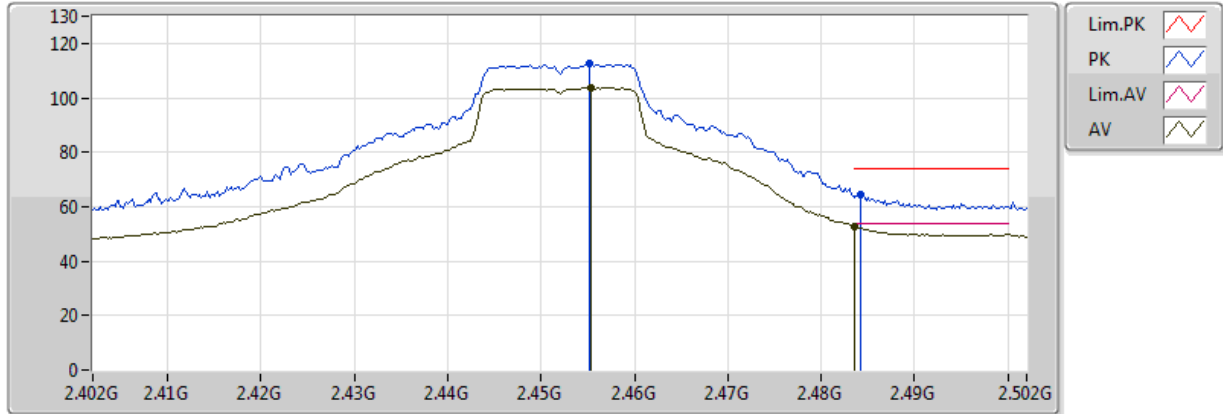


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4488G	96.92	Inf	-Inf	31.10	3	Vertical	332	1.84	-
AV	2.4836G	49.47	54.00	-4.53	31.21	3	Vertical	332	1.84	-
PK	2.4504G	105.71	Inf	-Inf	31.10	3	Vertical	332	1.84	-
PK	2.483502G	62.01	74.00	-11.99	31.21	3	Vertical	332	1.84	-

802.11g_Nss1,(6Mbps)_1TX

2452MHz_TX

11/05/2018

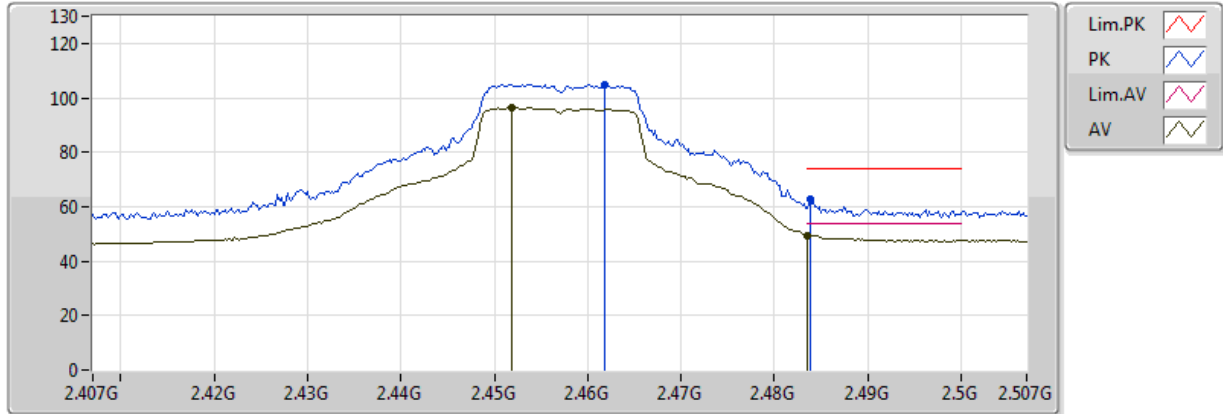


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4554G	103.60	Inf	-Inf	31.12	3	Horizontal	31	2.82	-
AV	2.483502G	52.78	54.00	-1.22	31.21	3	Horizontal	31	2.82	-
PK	2.4552G	112.58	Inf	-Inf	31.12	3	Horizontal	31	2.82	-
PK	2.4842G	64.26	74.00	-9.74	31.21	3	Horizontal	31	2.82	-

802.11g_Nss1,(6Mbps)_1TX

2457MHz_TX

11/05/2018

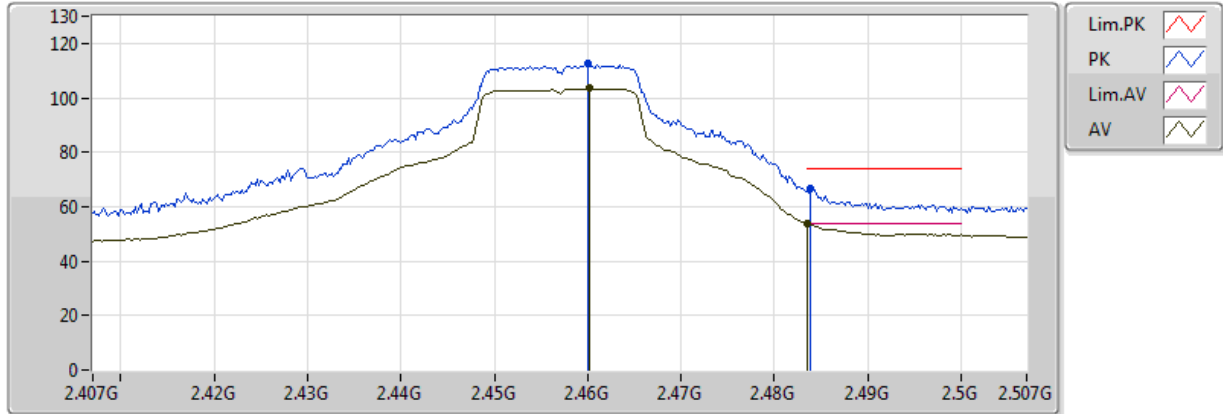


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4518G	96.28	Inf	-Inf	31.11	3	Vertical	332	1.47	-
AV	2.483502G	49.47	54.00	-4.53	31.21	3	Vertical	332	1.47	-
PK	2.4618G	104.92	Inf	-Inf	31.14	3	Vertical	332	1.47	-
PK	2.4838G	62.61	74.00	-11.39	31.21	3	Vertical	332	1.47	-

802.11g_Nss1,(6Mbps)_1TX

2457MHz_TX

11/05/2018

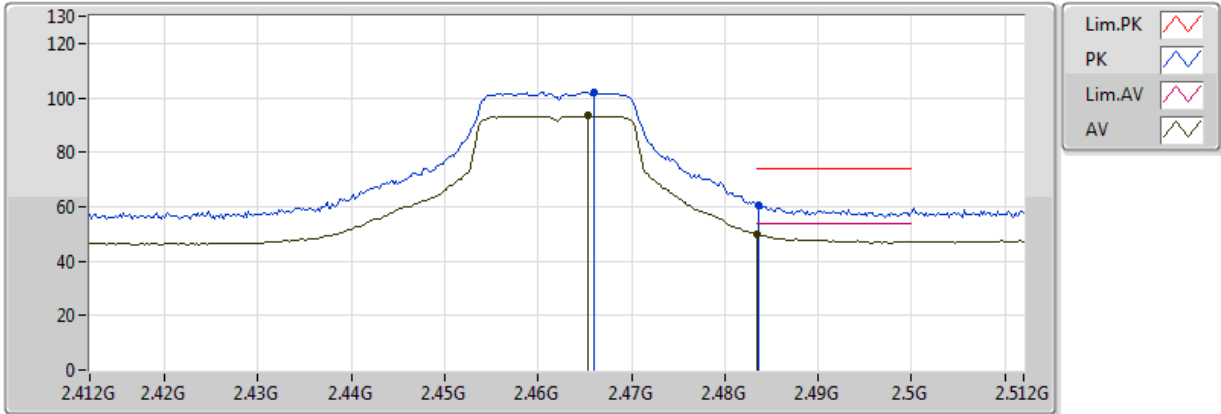


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4602G	103.44	Inf	-Inf	31.13	3	Horizontal	39	2.84	-
AV	2.483502G	53.82	54.00	-0.18	31.21	3	Horizontal	39	2.84	-
PK	2.46G	112.37	Inf	-Inf	31.13	3	Horizontal	39	2.84	-
PK	2.4838G	66.92	74.00	-7.08	31.21	3	Horizontal	39	2.84	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

10/05/2018

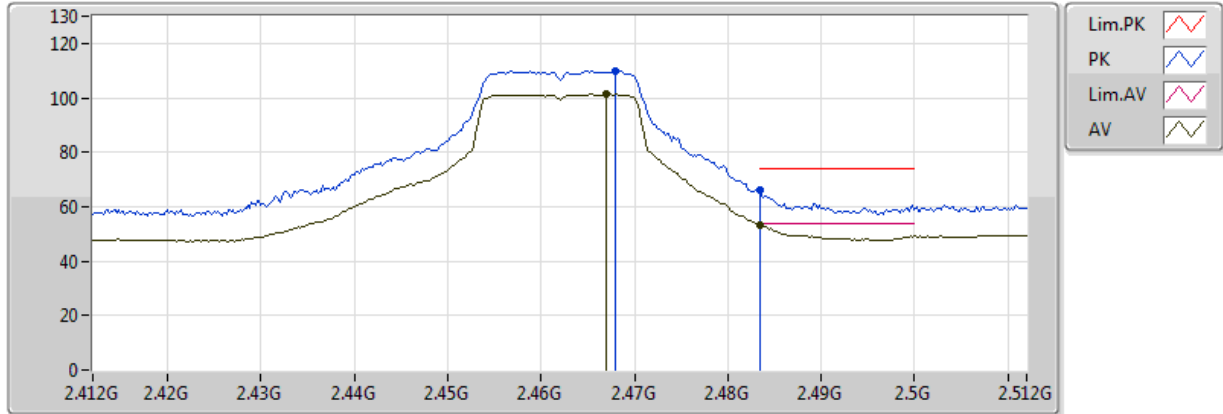


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4654G	93.33	Inf	-Inf	31.15	3	Vertical	328	1.78	-
AV	2.483502G	50.05	54.00	-3.95	31.21	3	Vertical	328	1.78	-
PK	2.466G	102.13	Inf	-Inf	31.15	3	Vertical	328	1.78	-
PK	2.4836G	60.40	74.00	-13.60	31.21	3	Vertical	328	1.78	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

10/05/2018

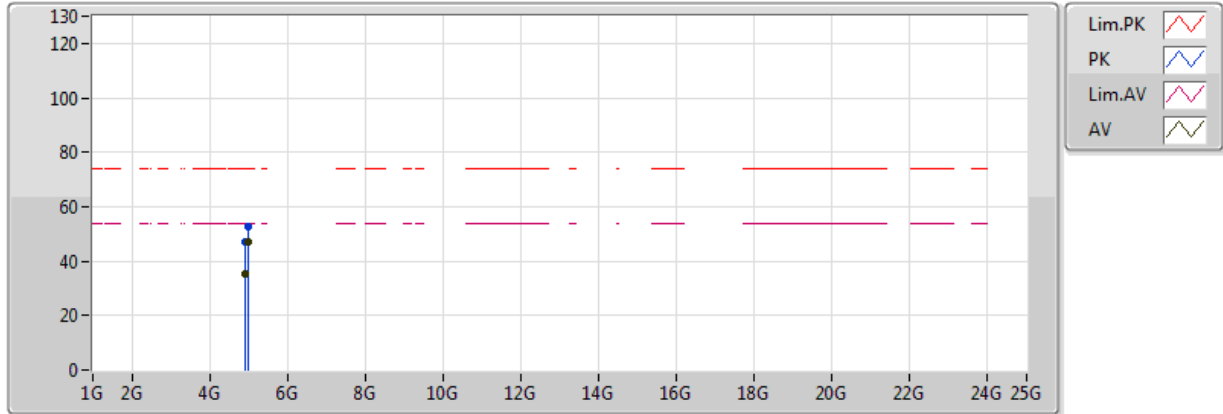


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.467G	101.19	Inf	-Inf	31.15	3	Horizontal	34	2.34	-
AV	2.483502G	53.19	54.00	-0.81	31.21	3	Horizontal	34	2.34	-
PK	2.468G	109.99	Inf	-Inf	31.16	3	Horizontal	34	2.34	-
PK	2.483502G	66.22	74.00	-7.78	31.21	3	Horizontal	34	2.34	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

10/05/2018

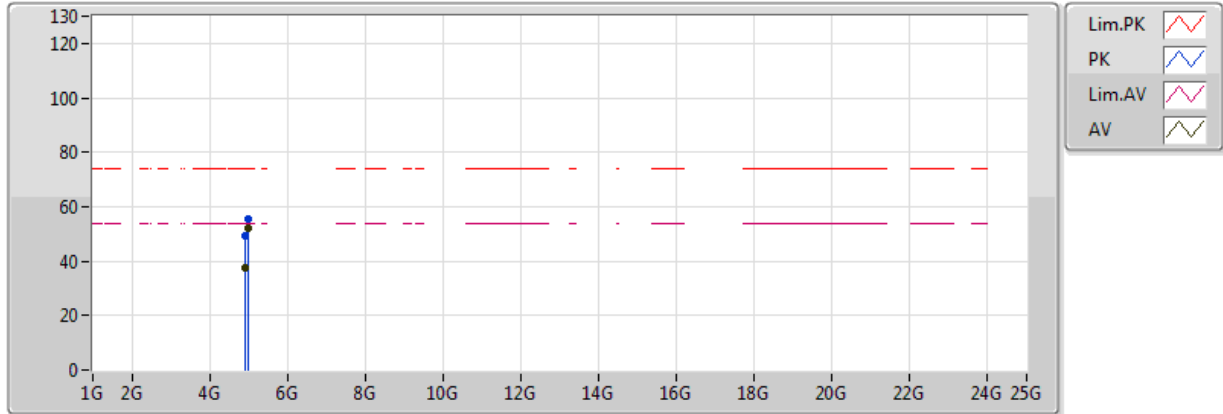


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.9252G	35.57	54.00	-18.43	2.16	3	Vertical	193	1.55	-
AV	5G	47.22	54.00	-6.78	2.36	3	Vertical	173	1.52	-
PK	4.9184G	46.95	74.00	-27.05	2.14	3	Vertical	193	1.55	-
PK	5G	52.54	74.00	-21.46	2.36	3	Vertical	173	1.52	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

10/05/2018

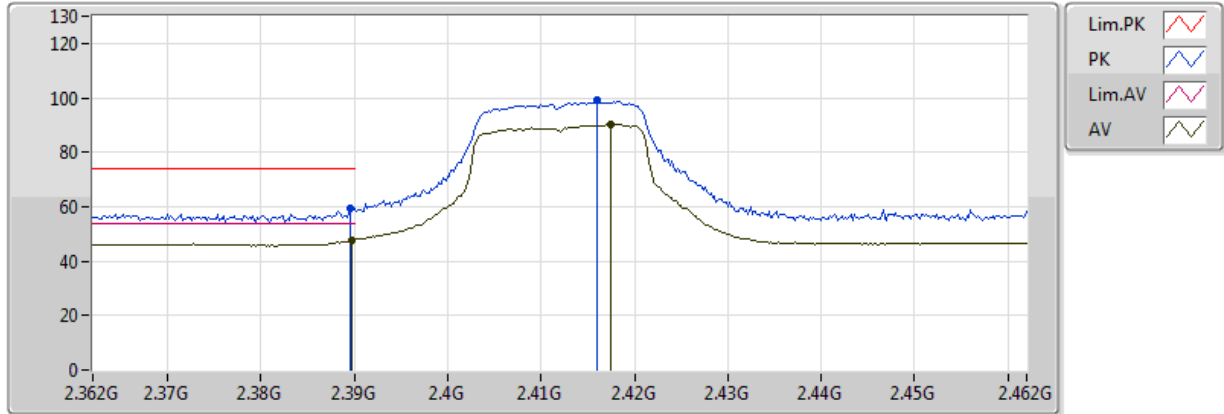


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.926G	37.31	54.00	-16.69	2.16	3	Horizontal	329	1.49	-
AV	5G	51.84	54.00	-2.16	2.36	3	Horizontal	125	1.10	-
PK	4.9261G	49.41	74.00	-24.59	2.16	3	Horizontal	329	1.49	-
PK	5G	55.21	74.00	-18.79	2.36	3	Horizontal	125	1.10	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

11/05/2018

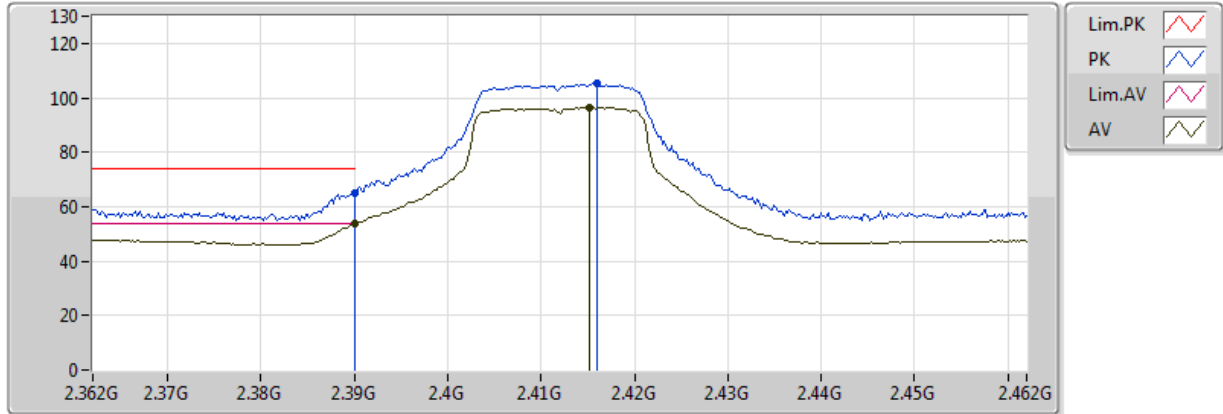


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.69	54.00	-6.31	30.91	3	Vertical	347	2.98	-
AV	2.4174G	90.35	Inf	-Inf	31.00	3	Vertical	347	2.98	-
PK	2.3896G	59.46	74.00	-14.54	30.91	3	Vertical	347	2.98	-
PK	2.416G	99.08	Inf	-Inf	30.99	3	Vertical	347	2.98	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

11/05/2018

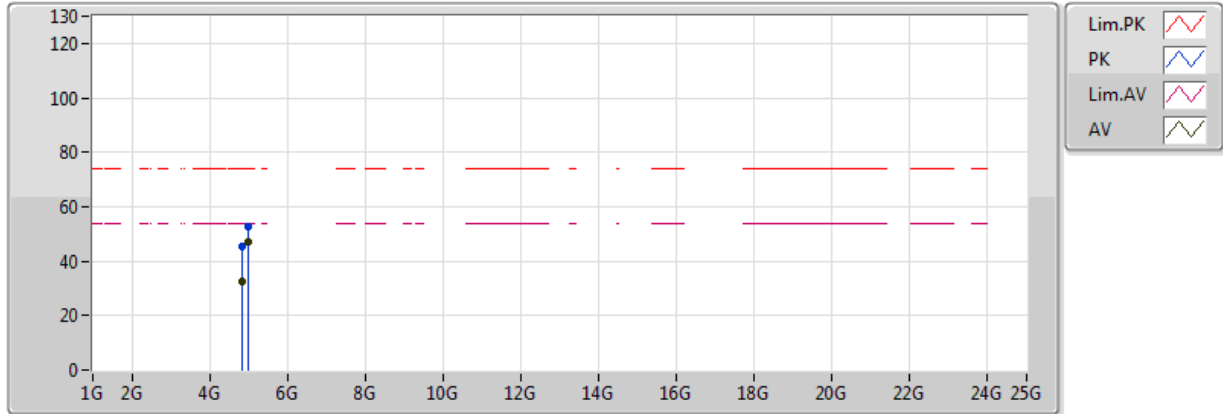


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	53.82	54.00	-0.18	30.91	3	Horizontal	39	2.67	-
AV	2.4152G	96.60	Inf	-Inf	30.99	3	Horizontal	39	2.67	-
PK	2.389998G	65.25	74.00	-8.75	30.91	3	Horizontal	39	2.67	-
PK	2.416G	105.50	Inf	-Inf	30.99	3	Horizontal	39	2.67	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

11/05/2018

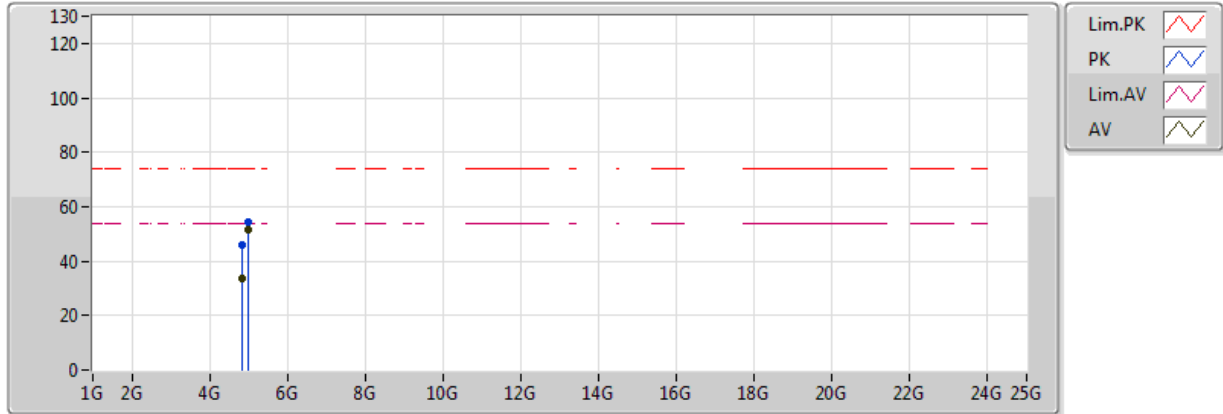


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82408G	32.52	54.00	-21.48	1.92	3	Vertical	211	2.29	-
AV	5.000052G	46.94	54.00	-7.06	2.36	3	Vertical	180	1.49	-
PK	4.821964G	45.37	74.00	-28.63	1.91	3	Vertical	211	2.29	-
PK	5.000052G	52.50	74.00	-21.50	2.36	3	Vertical	180	1.49	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

11/05/2018

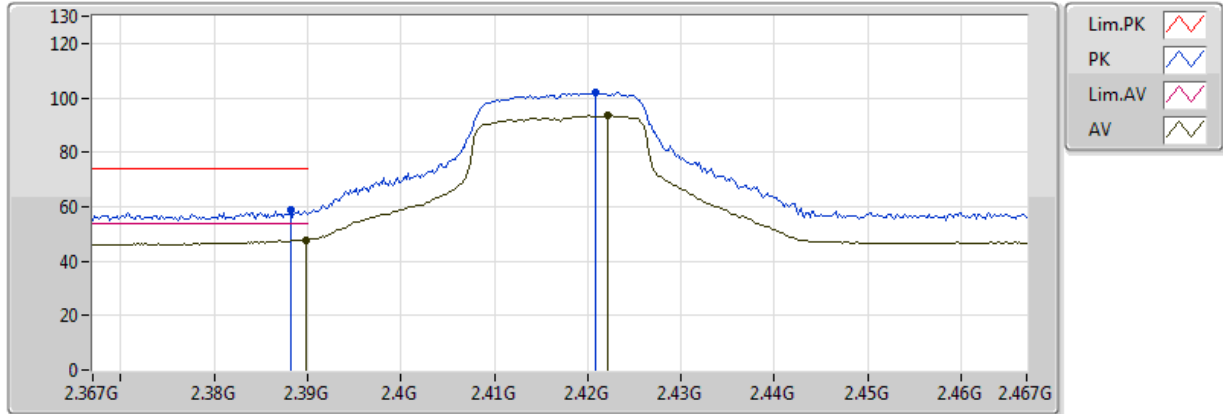


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.819289G	33.65	54.00	-20.35	1.90	3	Horizontal	63	2.35	-
AV	5G	51.49	54.00	-2.51	2.36	3	Horizontal	120	1.15	-
PK	4.822962G	45.94	74.00	-28.06	1.91	3	Horizontal	63	2.35	-
PK	5G	54.37	74.00	-19.63	2.36	3	Horizontal	120	1.15	-

802.11n HT20_Nss1,(MCS0)_1TX

2417MHz_TX

11/05/2018

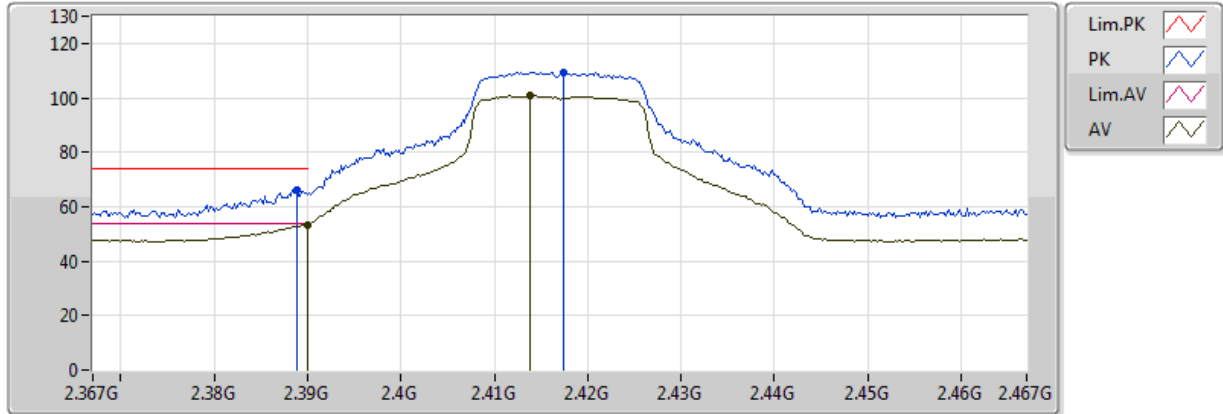


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.69	54.00	-6.31	30.91	3	Vertical	331	2.99	-
AV	2.4222G	93.46	Inf	-Inf	31.01	3	Vertical	331	2.99	-
PK	2.3882G	59.09	74.00	-14.91	30.90	3	Vertical	331	2.99	-
PK	2.4208G	102.26	Inf	-Inf	31.01	3	Vertical	331	2.99	-

802.11n HT20_Nss1,(MCS0)_1TX

2417MHz_TX

11/05/2018

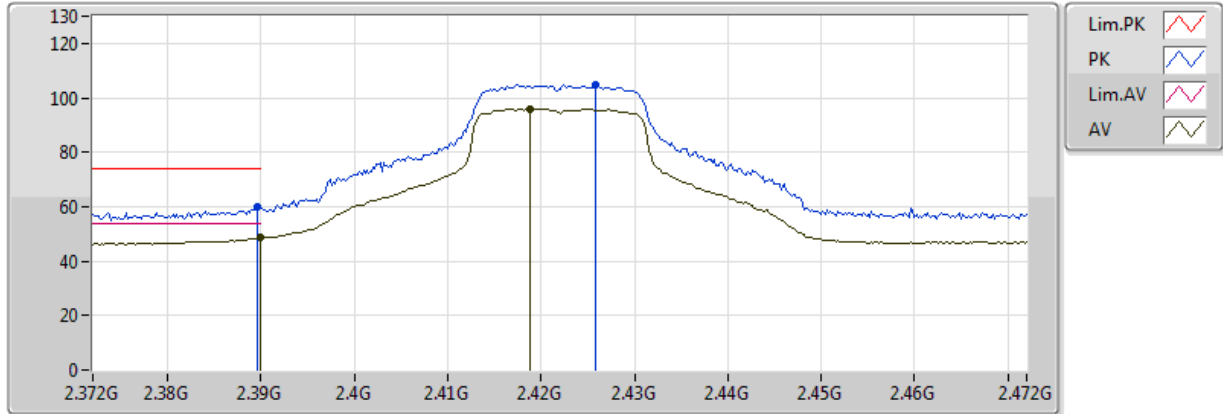


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	53.48	54.00	-0.52	30.91	3	Horizontal	33	2.26	-
AV	2.4138G	100.75	Inf	-Inf	30.98	3	Horizontal	33	2.26	-
PK	2.3888G	66.20	74.00	-7.80	30.90	3	Horizontal	33	2.26	-
PK	2.4174G	109.33	Inf	-Inf	31.00	3	Horizontal	33	2.26	-

802.11n HT20_Nss1,(MCS0)_1TX

2422MHz_TX

11/05/2018

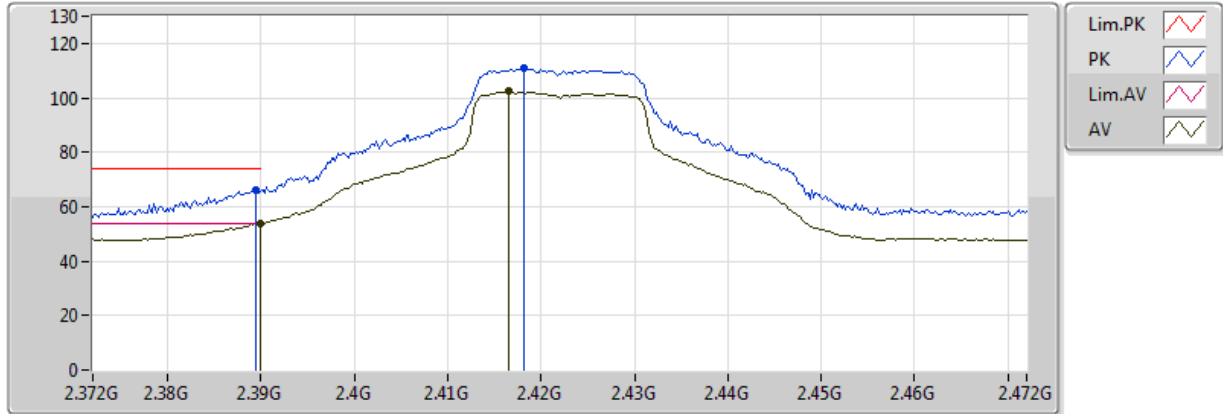


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	48.56	54.00	-5.44	30.91	3	Vertical	343	2.99	-
AV	2.4188G	96.00	Inf	-Inf	31.00	3	Vertical	343	2.99	-
PK	2.3896G	60.14	74.00	-13.86	30.91	3	Vertical	343	2.99	-
PK	2.4258G	104.74	Inf	-Inf	31.02	3	Vertical	343	2.99	-

802.11n HT20_Nss1,(MCS0)_1TX

2422MHz_TX

11/05/2018

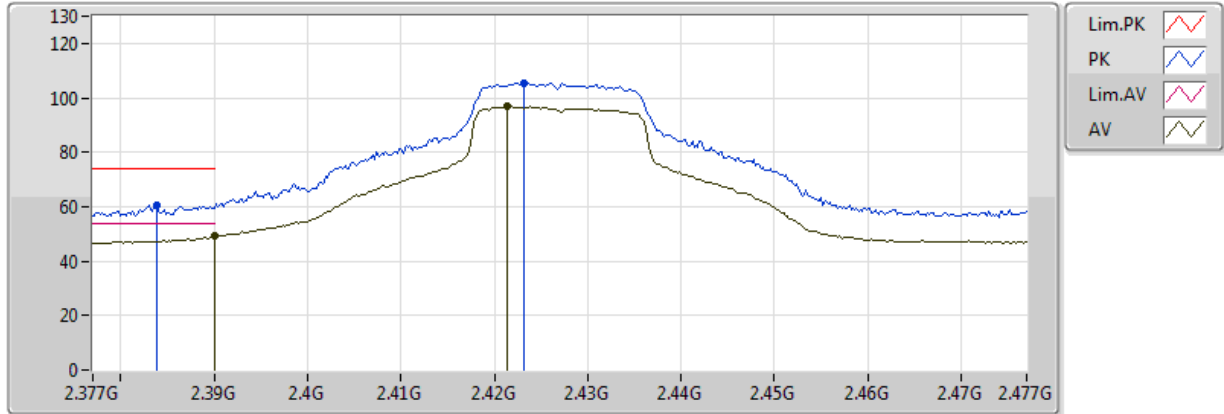


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	53.82	54.00	-0.18	30.91	3	Horizontal	31	2.67	-
AV	2.4166G	102.29	Inf	-Inf	30.99	3	Horizontal	31	2.67	-
PK	2.3894G	66.02	74.00	-7.98	30.91	3	Horizontal	31	2.67	-
PK	2.4182G	110.77	Inf	-Inf	31.00	3	Horizontal	31	2.67	-

802.11n HT20_Nss1,(MCS0)_1TX

2427MHz_TX

11/05/2018

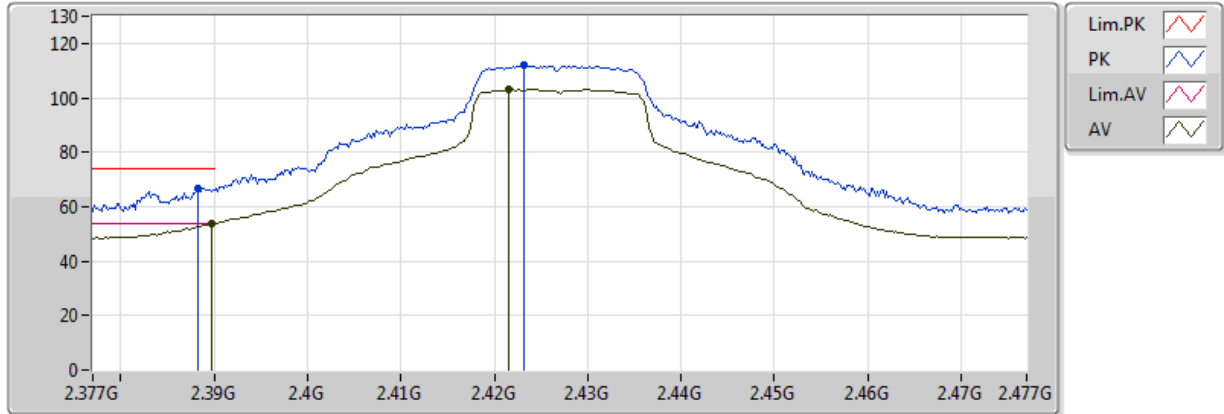


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	49.16	54.00	-4.84	30.91	3	Vertical	345	2.99	-
AV	2.4214G	96.74	Inf	-Inf	31.01	3	Vertical	345	2.99	-
PK	2.3838G	60.75	74.00	-13.25	30.89	3	Vertical	345	2.99	-
PK	2.4232G	105.57	Inf	-Inf	31.01	3	Vertical	345	2.99	-

802.11n HT20_Nss1,(MCS0)_1TX

2427MHz_TX

11/05/2018

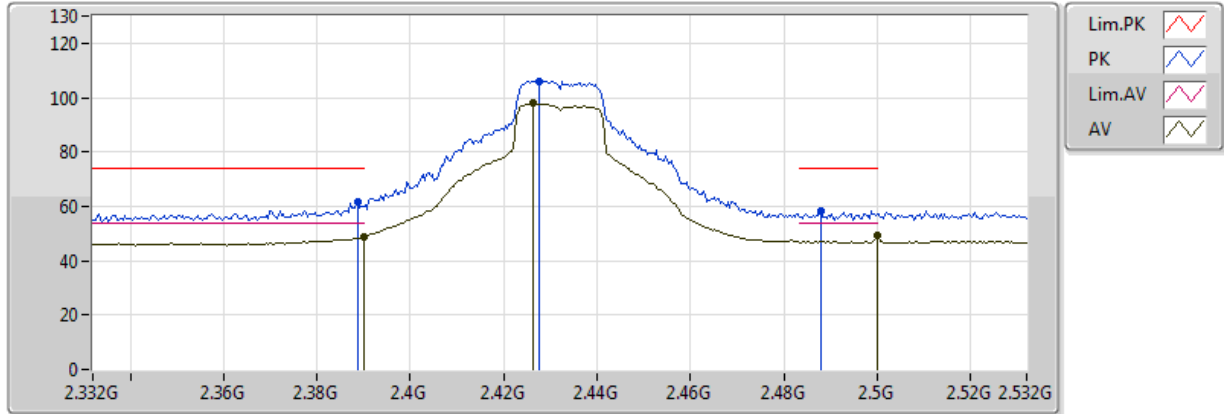


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	53.71	54.00	-0.29	30.91	3	Horizontal	35	2.58	-
AV	2.4216G	103.08	Inf	-Inf	31.01	3	Horizontal	35	2.58	-
PK	2.3882G	66.88	74.00	-7.12	30.90	3	Horizontal	35	2.58	-
PK	2.4232G	112.07	Inf	-Inf	31.01	3	Horizontal	35	2.58	-

802.11n HT20_Nss1,(MCS0)_1TX

2432MHz_TX

11/05/2018

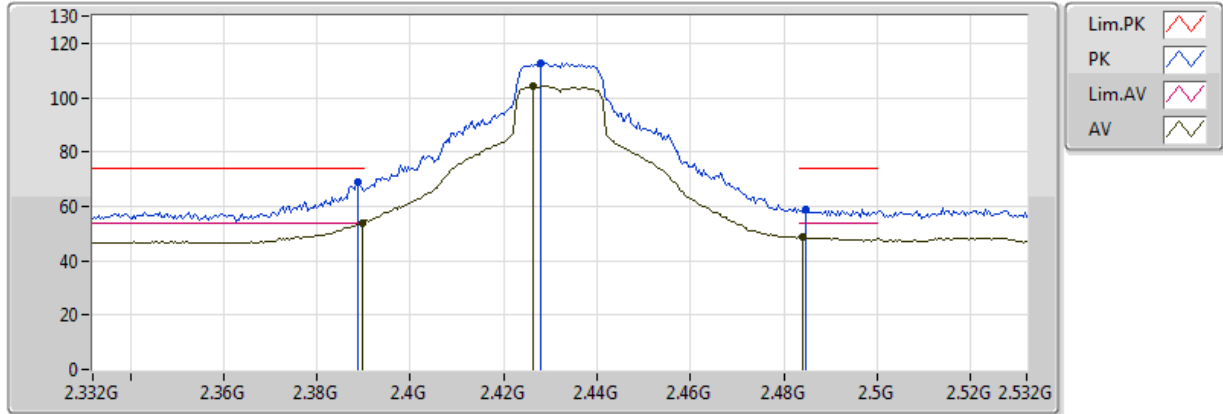


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	48.76	54.00	-5.24	30.91	3	Vertical	349	2.98	-
AV	2.4264G	97.95	Inf	-Inf	31.02	3	Vertical	349	2.98	-
AV	2.499998G	49.31	54.00	-4.69	31.26	3	Vertical	349	2.98	-
PK	2.3888G	61.76	74.00	-12.24	30.90	3	Vertical	349	2.98	-
PK	2.4276G	106.13	Inf	-Inf	31.03	3	Vertical	349	2.98	-
PK	2.488G	58.28	74.00	-15.72	31.22	3	Vertical	349	2.98	-

802.11n HT20_Nss1,(MCS0)_1TX

2432MHz_TX

11/05/2018

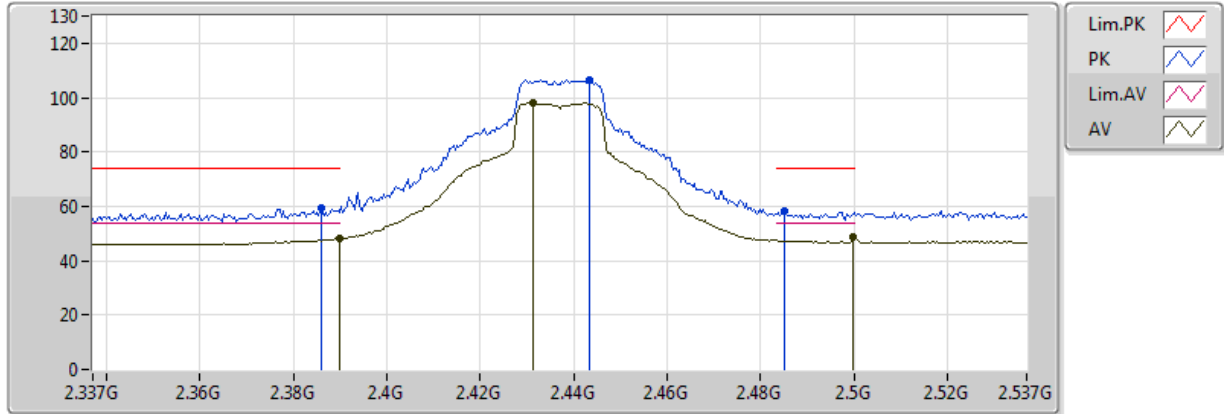


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3896G	53.82	54.00	-0.18	30.91	3	Horizontal	33	2.52	-
AV	2.4264G	104.24	Inf	-Inf	31.02	3	Horizontal	33	2.52	-
AV	2.484G	48.62	54.00	-5.38	31.21	3	Horizontal	33	2.52	-
PK	2.3888G	69.01	74.00	-4.99	30.90	3	Horizontal	33	2.52	-
PK	2.428G	112.69	Inf	-Inf	31.03	3	Horizontal	33	2.52	-
PK	2.4848G	58.92	74.00	-15.08	31.22	3	Horizontal	33	2.52	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

11/05/2018

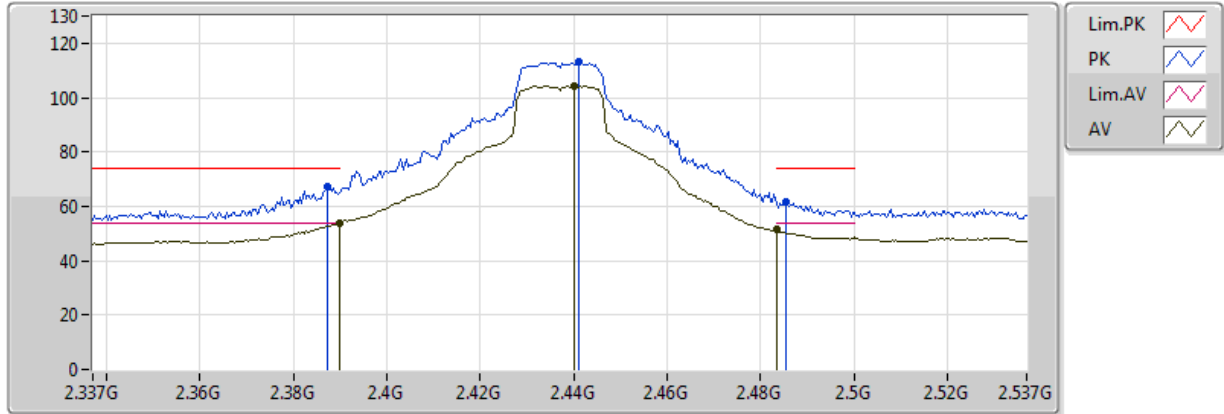


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.92	54.00	-6.08	30.91	3	Vertical	345	2.98	-
AV	2.4314G	98.07	Inf	-Inf	31.04	3	Vertical	345	2.98	-
AV	2.4998G	48.67	54.00	-5.33	31.26	3	Vertical	345	2.98	-
PK	2.3858G	59.15	74.00	-14.85	30.90	3	Vertical	345	2.98	-
PK	2.4434G	106.47	Inf	-Inf	31.08	3	Vertical	345	2.98	-
PK	2.485G	58.29	74.00	-15.71	31.22	3	Vertical	345	2.98	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

11/05/2018

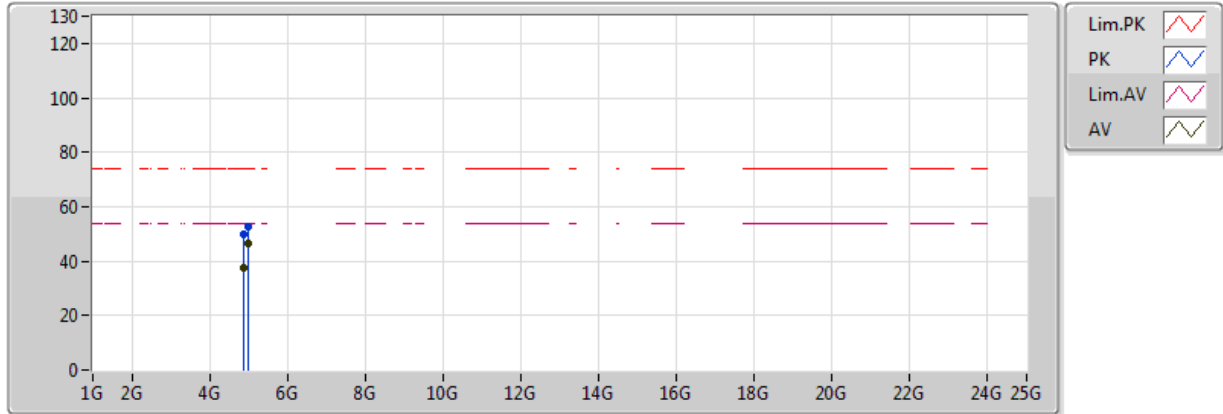


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	53.71	54.00	-0.29	30.91	3	Horizontal	34	1.90	-
AV	2.4402G	104.39	Inf	-Inf	31.07	3	Horizontal	34	1.90	-
AV	2.483502G	51.28	54.00	-2.72	31.21	3	Horizontal	34	1.90	-
PK	2.3874G	67.08	74.00	-6.92	30.90	3	Horizontal	34	1.90	-
PK	2.441G	113.18	Inf	-Inf	31.07	3	Horizontal	34	1.90	-
PK	2.4854G	61.48	74.00	-12.52	31.22	3	Horizontal	34	1.90	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

11/05/2018

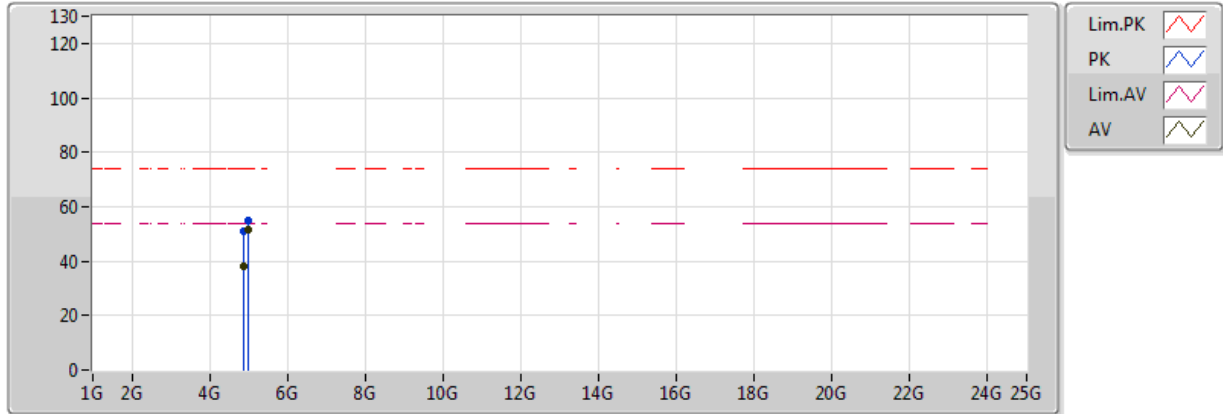


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87376G	37.31	54.00	-16.69	2.03	3	Vertical	146	1.49	-
AV	5G	46.74	54.00	-7.26	2.36	3	Vertical	174	1.52	-
PK	4.87664G	49.66	74.00	-24.34	2.04	3	Vertical	146	1.49	-
PK	5G	52.47	74.00	-21.53	2.36	3	Vertical	174	1.52	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

11/05/2018

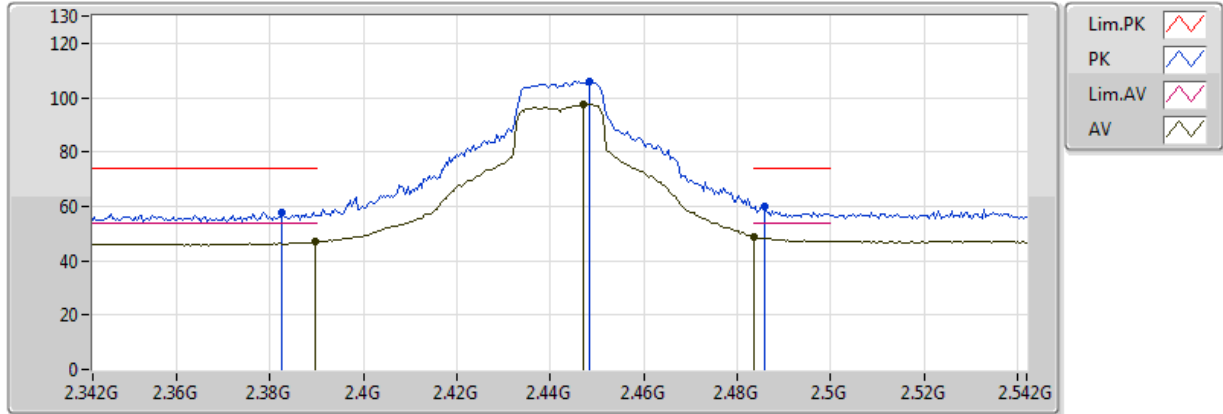


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87664G	38.31	54.00	-15.69	2.04	3	Horizontal	336	1.01	-
AV	4.99998G	51.71	54.00	-2.29	2.36	3	Horizontal	128	1.13	-
PK	4.87652G	50.93	74.00	-23.07	2.04	3	Horizontal	336	1.01	-
PK	4.99998G	54.80	74.00	-19.20	2.36	3	Horizontal	128	1.13	-

802.11n HT20_Nss1,(MCS0)_1TX

2442MHz_TX

11/05/2018

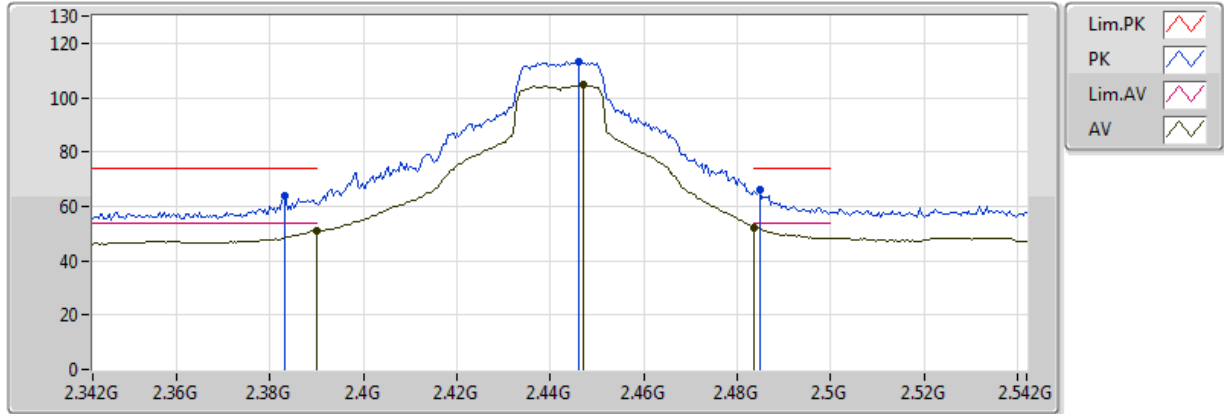


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3896G	46.98	54.00	-7.02	30.91	3	Vertical	332	1.84	-
AV	2.4472G	97.63	Inf	-Inf	31.09	3	Vertical	332	1.84	-
AV	2.483502G	48.84	54.00	-5.16	31.21	3	Vertical	332	1.84	-
PK	2.3824G	57.91	74.00	-16.09	30.89	3	Vertical	332	1.84	-
PK	2.4484G	105.90	Inf	-Inf	31.09	3	Vertical	332	1.84	-
PK	2.486G	60.12	74.00	-13.88	31.22	3	Vertical	332	1.84	-

802.11n HT20_Nss1,(MCS0)_1TX

2442MHz_TX

11/05/2018

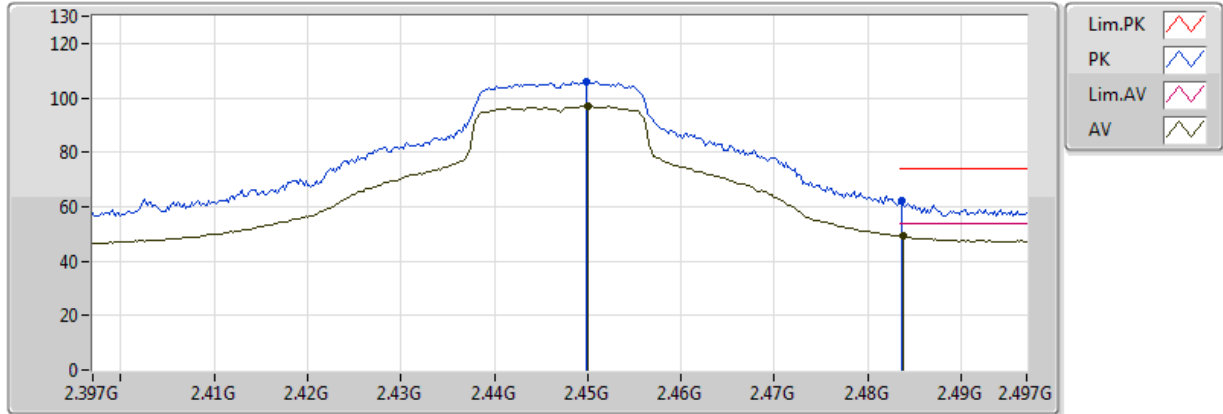


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	50.90	54.00	-3.10	30.91	3	Horizontal	38	2.53	-
AV	2.4472G	104.62	Inf	-Inf	31.09	3	Horizontal	38	2.53	-
AV	2.483502G	52.36	54.00	-1.64	31.21	3	Horizontal	38	2.53	-
PK	2.3832G	64.07	74.00	-9.93	30.89	3	Horizontal	38	2.53	-
PK	2.446G	113.43	Inf	-Inf	31.09	3	Horizontal	38	2.53	-
PK	2.4848G	66.11	74.00	-7.89	31.22	3	Horizontal	38	2.53	-

802.11n HT20_Nss1,(MCS0)_1TX

2447MHz_TX

11/05/2018

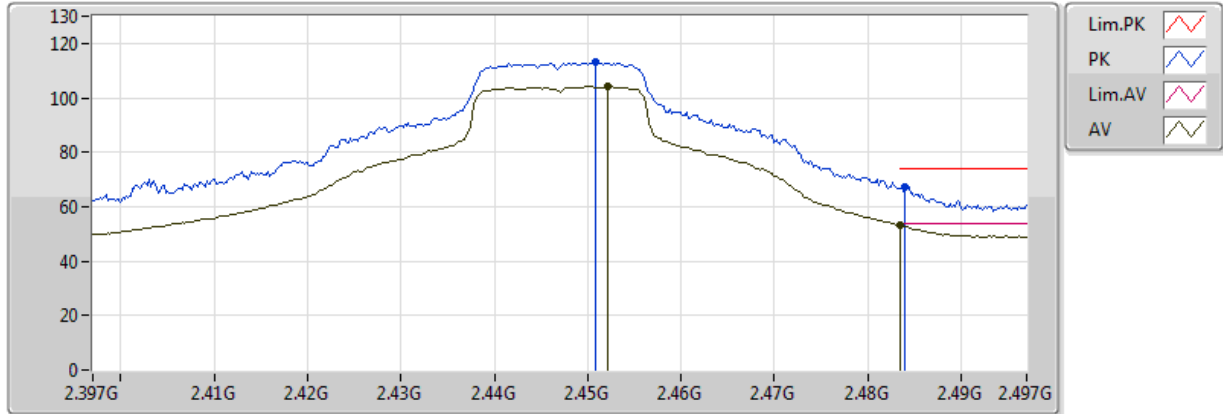


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.45G	96.98	Inf	-Inf	31.10	3	Vertical	331	1.82	-
AV	2.4838G	49.47	54.00	-4.53	31.21	3	Vertical	331	1.82	-
PK	2.4498G	105.99	Inf	-Inf	31.10	3	Vertical	331	1.82	-
PK	2.4836G	62.01	74.00	-11.99	31.21	3	Vertical	331	1.82	-

802.11n HT20_Nss1,(MCS0)_1TX

2447MHz_TX

11/05/2018

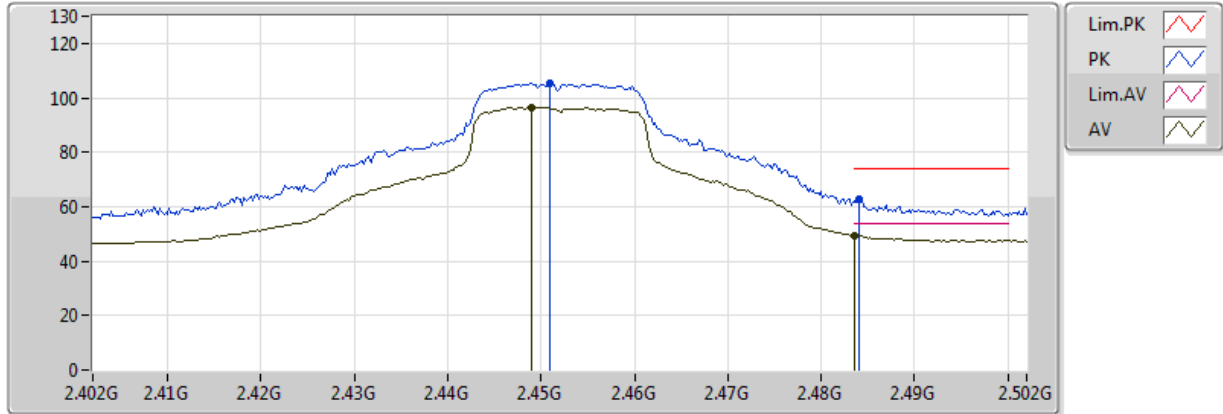


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4522G	104.17	Inf	-Inf	31.11	3	Horizontal	40	2.54	-
AV	2.483502G	53.45	54.00	-0.55	31.21	3	Horizontal	40	2.54	-
PK	2.4508G	113.15	Inf	-Inf	31.10	3	Horizontal	40	2.54	-
PK	2.484G	67.42	74.00	-6.58	31.21	3	Horizontal	40	2.54	-

802.11n HT20_Nss1,(MCS0)_1TX

2452MHz_TX

11/05/2018

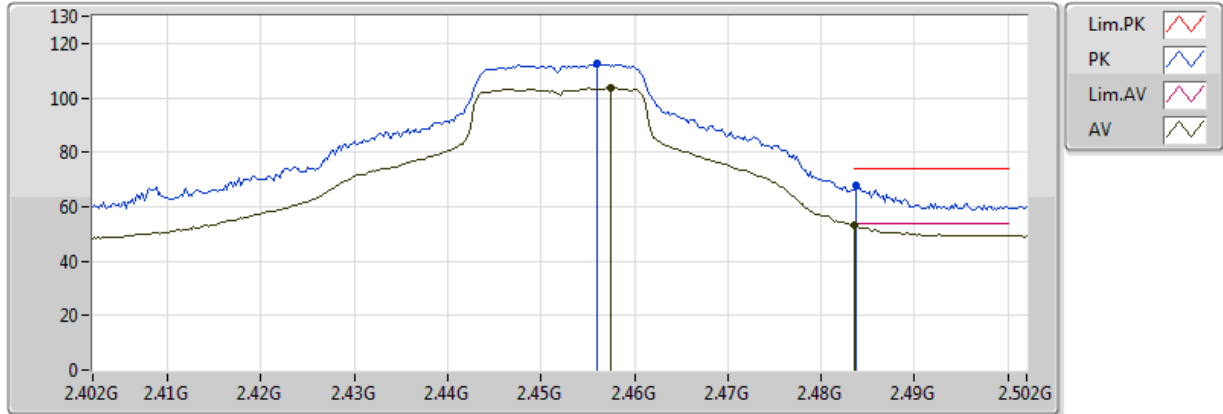


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.449G	96.59	Inf	-Inf	31.10	3	Vertical	331	1.86	-
AV	2.483502G	49.47	54.00	-4.53	31.21	3	Vertical	331	1.86	-
PK	2.451G	105.14	Inf	-Inf	31.10	3	Vertical	331	1.86	-
PK	2.484G	62.91	74.00	-11.09	31.21	3	Vertical	331	1.86	-

802.11n HT20_Nss1,(MCS0)_1TX

2452MHz_TX

11/05/2018

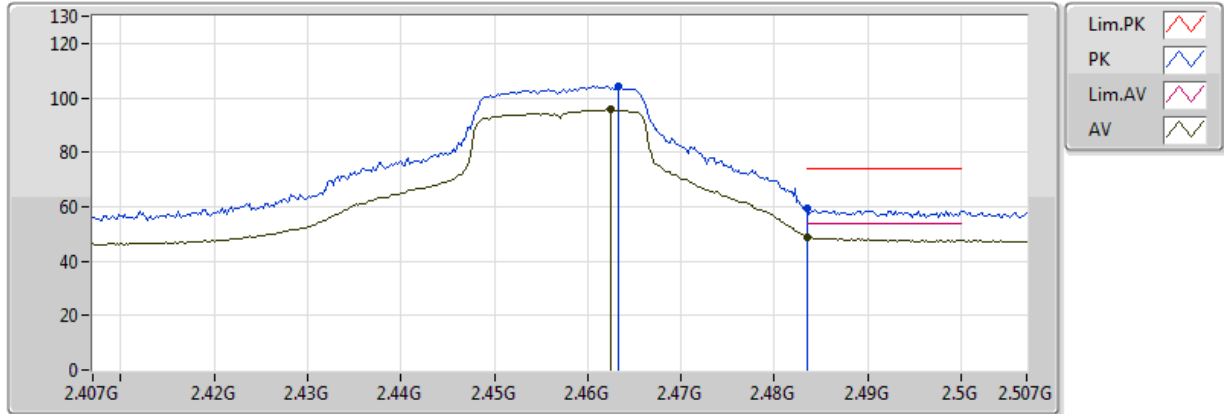


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4574G	103.55	Inf	-Inf	31.12	3	Horizontal	36	2.84	-
AV	2.483502G	53.19	54.00	-0.81	31.21	3	Horizontal	36	2.84	-
PK	2.456G	112.45	Inf	-Inf	31.12	3	Horizontal	36	2.84	-
PK	2.4838G	67.72	74.00	-6.28	31.21	3	Horizontal	36	2.84	-

802.11n HT20_Nss1,(MCS0)_1TX

2457MHz_TX

11/05/2018

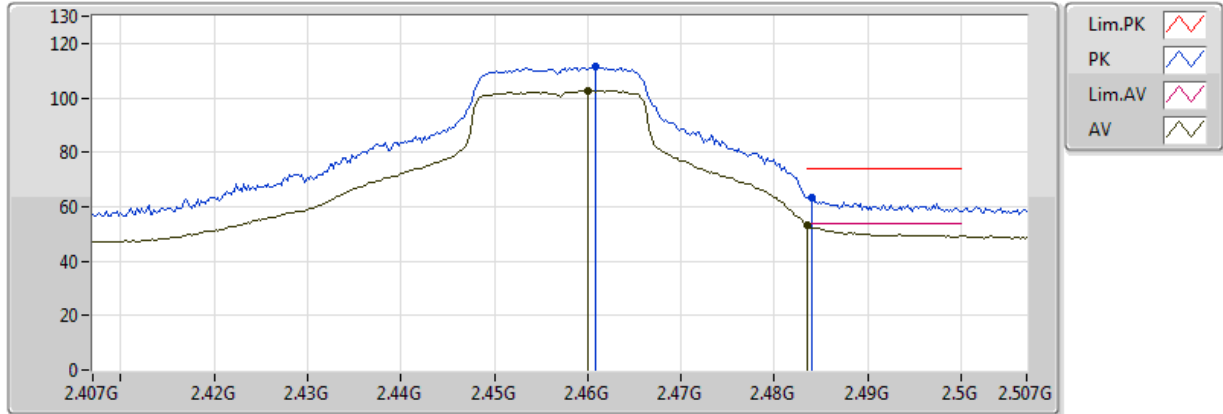


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4624G	95.77	Inf	-Inf	31.14	3	Vertical	329	1.21	-
AV	2.483502G	48.84	54.00	-5.16	31.21	3	Vertical	329	1.21	-
PK	2.4632G	104.44	Inf	-Inf	31.14	3	Vertical	329	1.21	-
PK	2.483502G	59.50	74.00	-14.50	31.21	3	Vertical	329	1.21	-

802.11n HT20_Nss1,(MCS0)_1TX

2457MHz_TX

11/05/2018

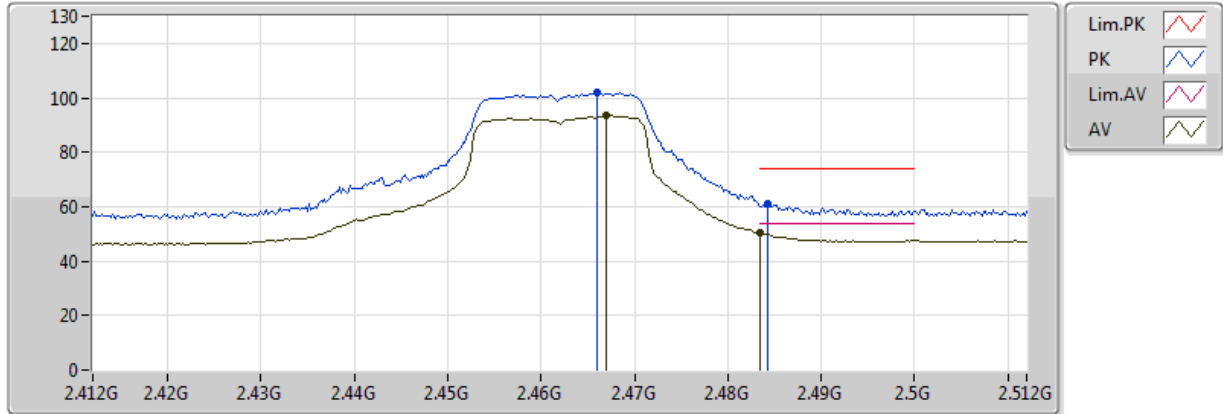


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.46G	102.71	Inf	-Inf	31.13	3	Horizontal	39	2.84	-
AV	2.483502G	53.19	54.00	-0.81	31.21	3	Horizontal	39	2.84	-
PK	2.4608G	111.57	Inf	-Inf	31.13	3	Horizontal	39	2.84	-
PK	2.484G	63.57	74.00	-10.43	31.21	3	Horizontal	39	2.84	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

11/05/2018

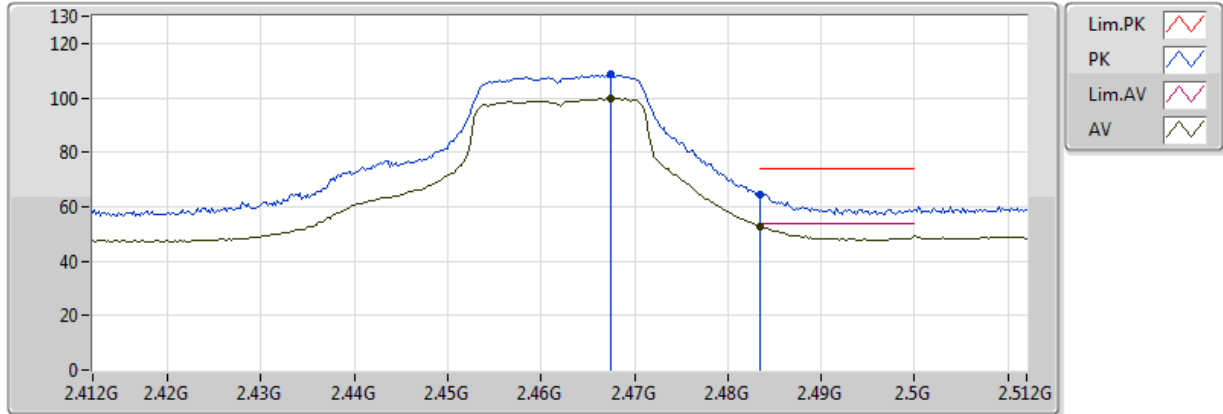


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.467G	93.40	Inf	-Inf	31.15	3	Vertical	330	1.64	-
AV	2.483502G	50.24	54.00	-3.76	31.21	3	Vertical	330	1.64	-
PK	2.466G	102.05	Inf	-Inf	31.15	3	Vertical	330	1.64	-
PK	2.4842G	61.01	74.00	-12.99	31.21	3	Vertical	330	1.64	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

11/05/2018

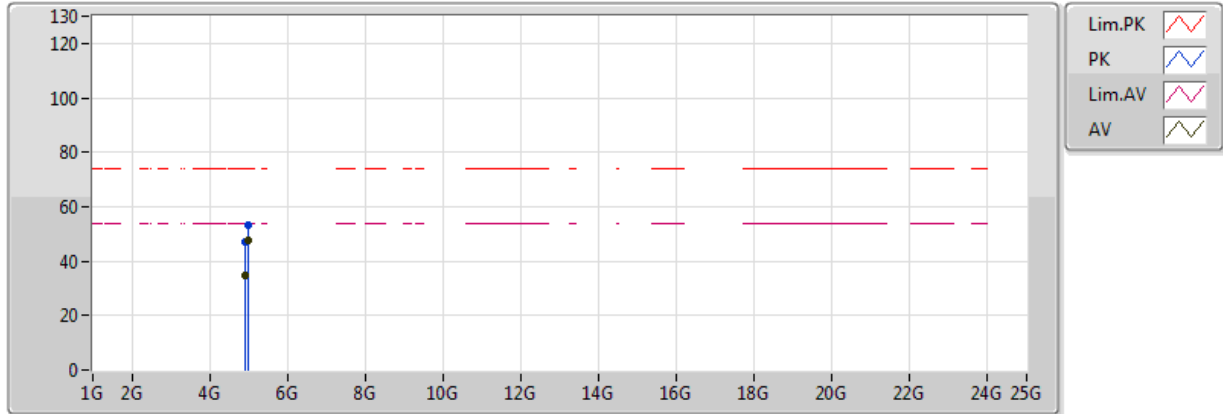


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4674G	99.84	Inf	-Inf	31.16	3	Horizontal	34	1.70	-
AV	2.483502G	52.78	54.00	-1.22	31.21	3	Horizontal	34	1.70	-
PK	2.4674G	108.56	Inf	-Inf	31.16	3	Horizontal	34	1.70	-
PK	2.483502G	64.58	74.00	-9.42	31.21	3	Horizontal	34	1.70	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

11/05/2018

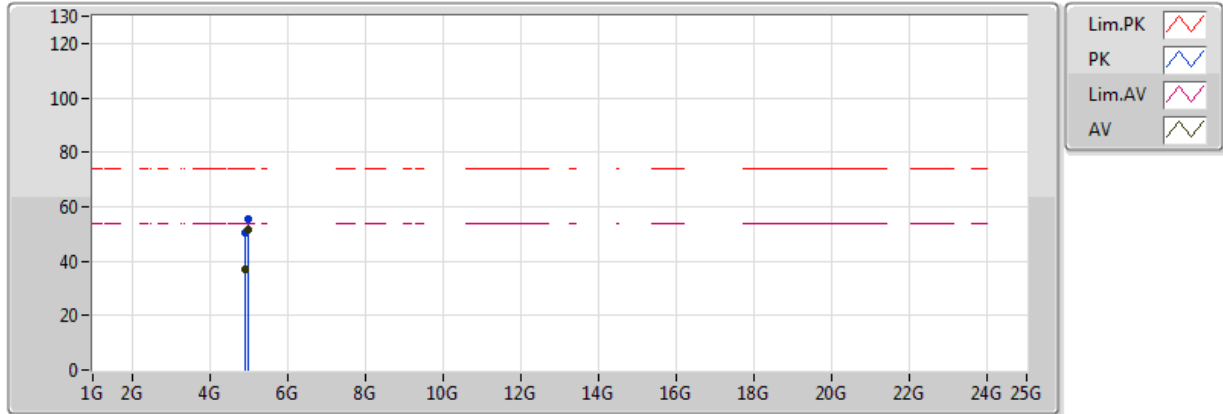


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92188G	34.81	54.00	-19.19	2.15	3	Vertical	144	1.48	-
AV	5G	47.46	54.00	-6.54	2.36	3	Vertical	170	1.51	-
PK	4.92196G	46.79	74.00	-27.21	2.15	3	Vertical	144	1.48	-
PK	5G	53.04	74.00	-20.96	2.36	3	Vertical	170	1.51	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

11/05/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92772G	37.17	54.00	-16.83	2.16	3	Horizontal	333	3.07	-
AV	5G	51.46	54.00	-2.54	2.36	3	Horizontal	130	1.15	-
PK	4.92192G	50.47	74.00	-23.53	2.15	3	Horizontal	333	3.07	-
PK	5G	55.26	74.00	-18.74	2.36	3	Horizontal	130	1.15	-