

FCC Test Report

FCC ID : RYK-WPEQ256ACN
Equipment : 802.11ac/b/g/n Mini PCIe Module
Brand Name : Sparklan
Model Name : WPEQ-256ACNRBI ,WPEQ-256ACN
Applicant/
Manufacturer : SparkLAN Communications, Inc.
8F., No. 257, Sec. 2, Tiding Blvd., Neihu District,
Taipei City 11493, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Dec. 10, 2018, and testing was started from Dec. 29, 2018 and completed on Jan. 08, 2019. . We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



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History of this test report

Report No.	Version	Description	Issued Date
FR8D0605AC	01	Initial issue of report	Feb. 21, 2019

Summary of Test Result

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

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: Jackson Tsai

Report Producer: Michelle Tsai

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model	Antenna Type	Connector
1	SparkLAN	AD-103AG	Dipole	I-Pex
2	SparkLAN	AD-301N	Dipole	I-Pex
3	SparkLAN	AD-302N	Dipole	I-Pex
4	SparkLAN	AD-303N	Dipole	I-Pex
5	SparkLAN	AD-305N	Dipole	I-Pex
6	SparkLAN	AD-300N	Dipole	I-Pex

Ant.	Gain (dBi)				
	2.4G	5G			
		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
1	2.02	2.03			
2	4.4	5.2		5.8	
3	3.14	2.87			
4	3.14	3.45			
5	5	5.53			
6	3	5			

Note 1: EUT can match with above antennas for using. The higher gain (Ant. 2/5) was used to perform the worst configuration and result of that was recorded as the final test result.

For 2.4 GHz function:

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

Ant. 5 could transmit/receive simultaneously.

For 5 GHz function:

For IEEE 802.11a/n/ac mode (2TX/2RX)

U-NII-1/ U-NII-2A

Ant. 5 could transmit/receive simultaneously.

U-NII-2C/ U-NII-3

Ant. 2 could transmit/receive simultaneously.

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.998	0.009	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	0.998	0.009	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11n HT20	0.998	0.009	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11n HT40	0.997	0.013	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

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

1.1.5 Table for Multiple Listing

Model Name	Description
WPEQ-256ACNRBI	Differences between all models are for different marketing requirement.
WPEQ-256ACN	

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 v05r01
- ♦ KDB 662911 D01 v02r01

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Gary	22.5°C / 63%	08/Jan/2019
Radiated	03CH02-HY	Patrick	24.1°C / 52.3%	08/Jan/2019
AC Conduction	CO04-HY	Daniel	22.1°C / 55%	02/Jan/2019

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.54 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	3.3V

2.2 Test Channel Mode

Test Software Version	ART-GUI 2.3
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Mode	PowerSetting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	22
2417MHz	22.5
2437MHz	22.5
2462MHz	23.5
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	17
2417MHz	18
2422MHz	19.5
2427MHz	21
2432MHz	22.5
2437MHz	23
2442MHz	22.5
2447MHz	22
2452MHz	20.5
2457MHz	19
2462MHz	18
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	17.5
2417MHz	18
2422MHz	19
2427MHz	21
2432MHz	21.5
2437MHz	23
2442MHz	22.5
2447MHz	21.5



Mode	PowerSetting
2452MHz	20
2457MHz	19
2462MHz	18.5
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	16
2427MHz	16
2432MHz	16.5
2437MHz	17.5
2442MHz	16.5
2447MHz	16.5
2452MHz	16

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

2.4 Support Equipment

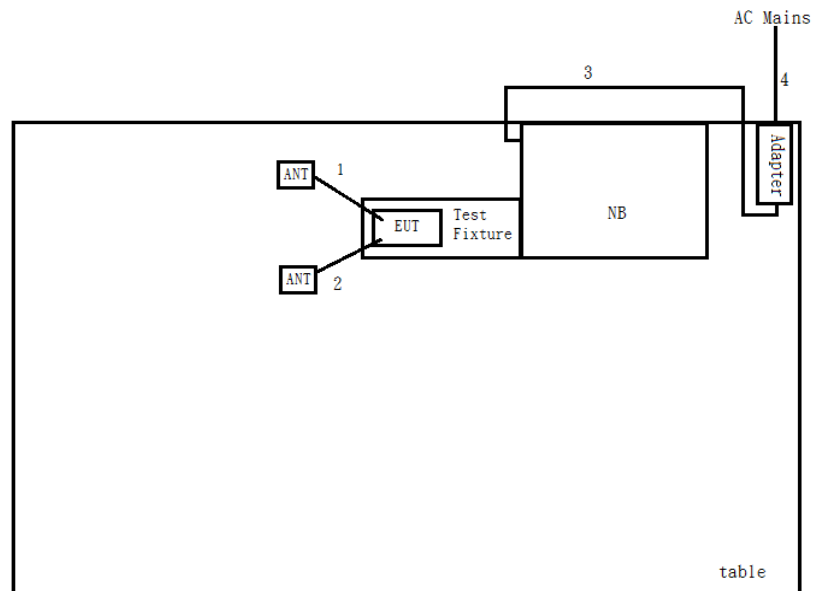
Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DOC
2	Adapter	DELL	AA90PM111	DOC
3	Test fixture	-	-	-

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	-	-	-

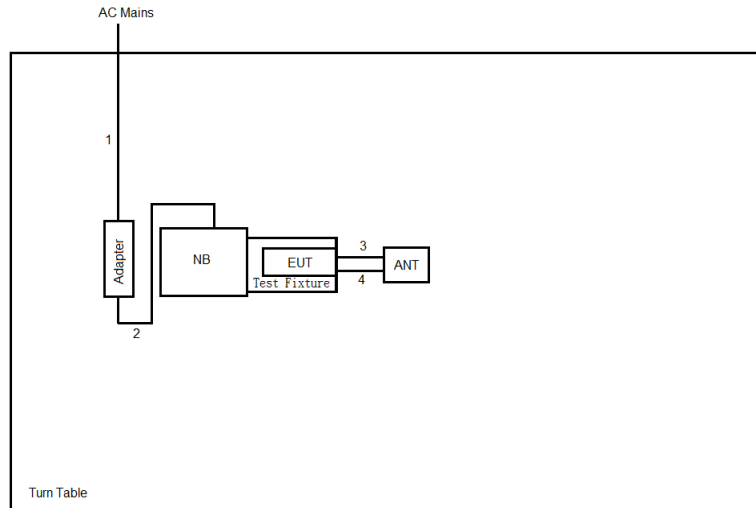
Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	PP13S	-
2	AC Adapter	DELL	LA90PM111	-
3	Test Fixture	-	-	-

2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	RF Cable	No	0.15	-
2	RF Cable	No	0.15	-
3	DC power line	No	1.8	-
4	AC power line	No	1.8	-

Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.8	-
2	DC Power line	No	1.8	-
3	RF cable	No	0.15	-
4	RF cable	No	0.15	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

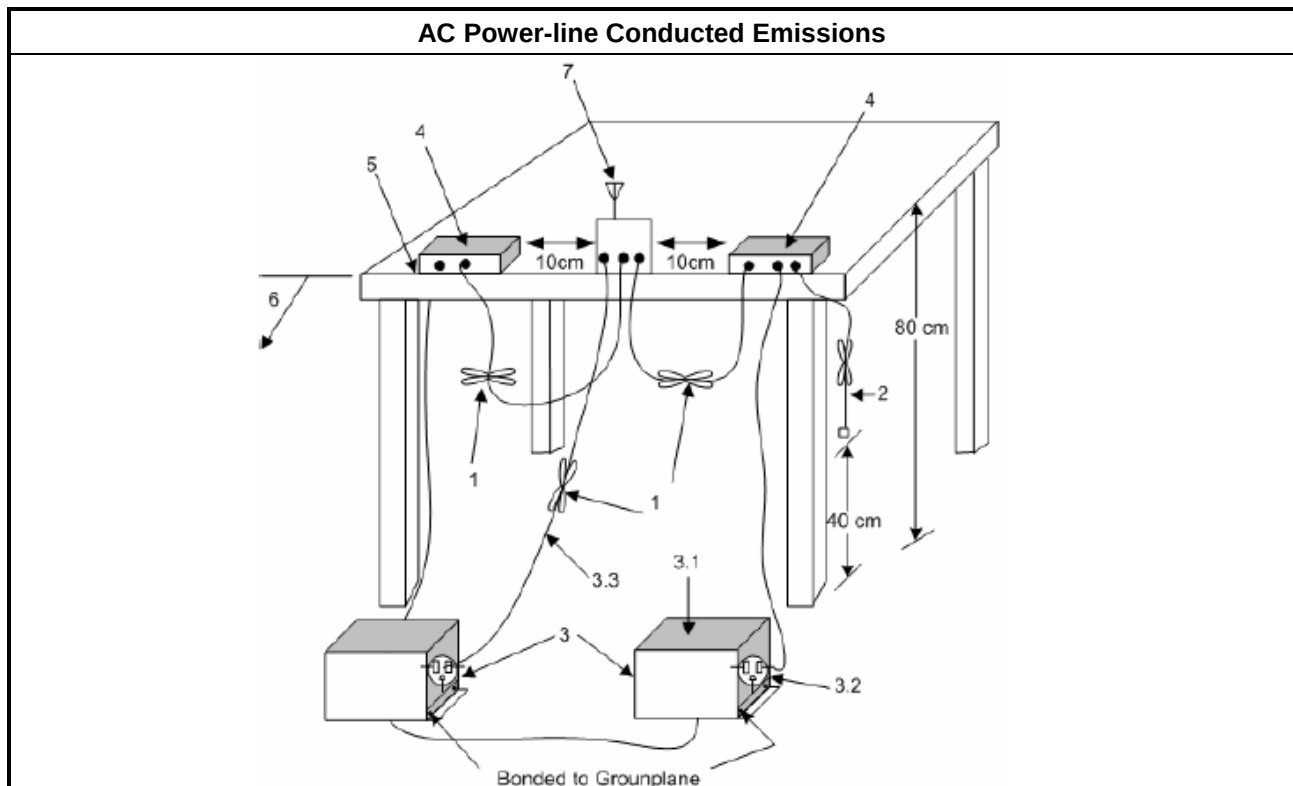
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

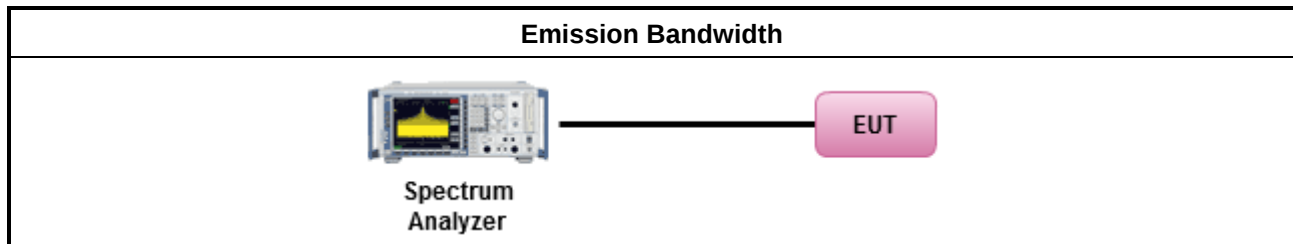
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

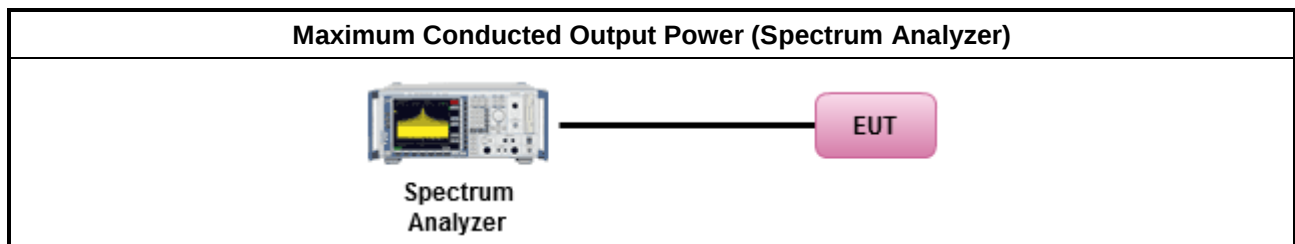
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

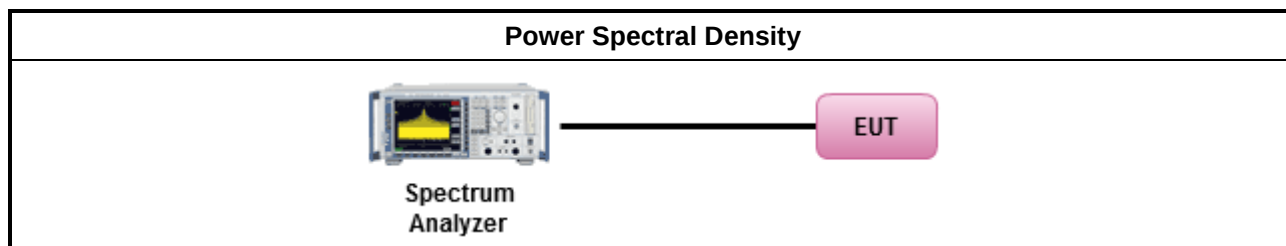
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

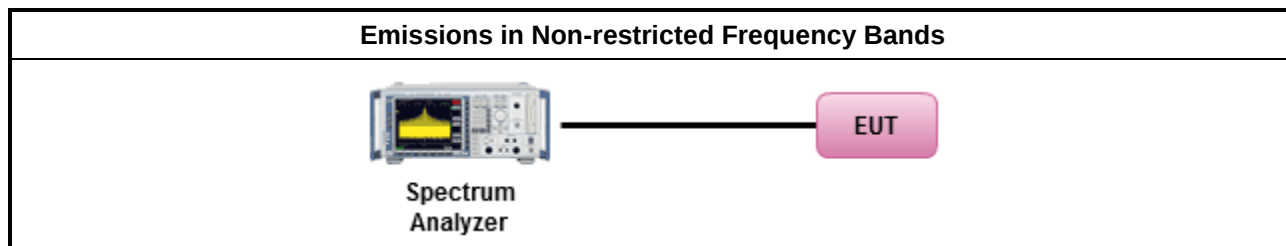
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

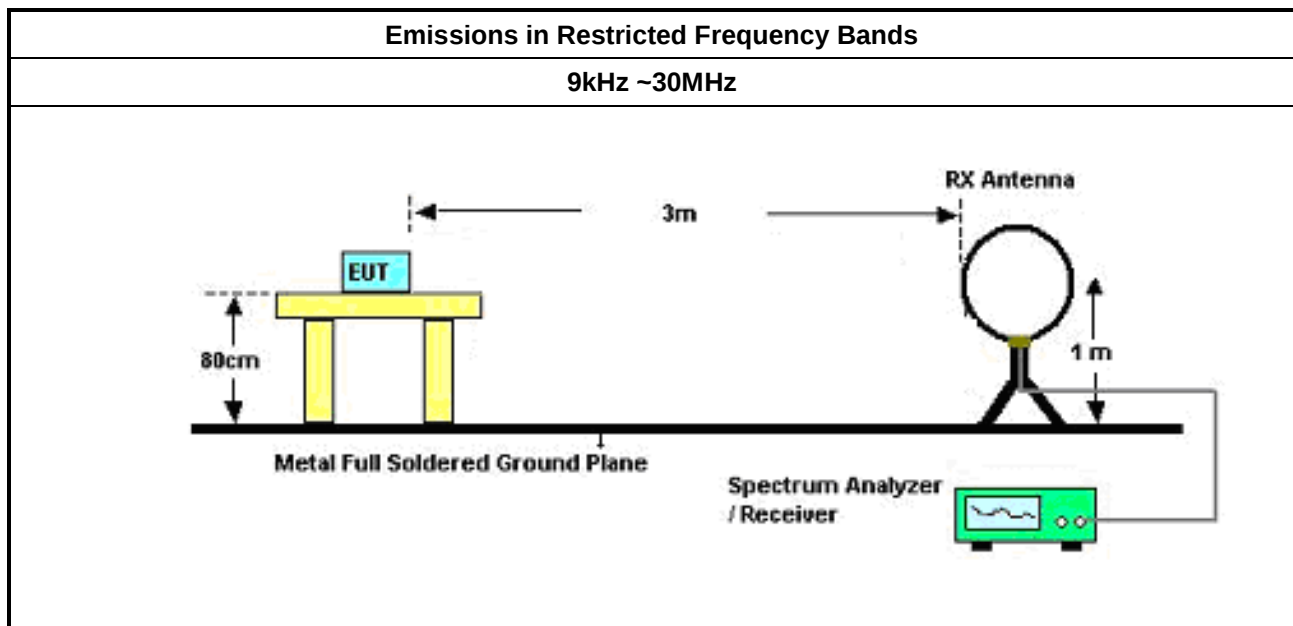
3.6.2 Measuring Instruments

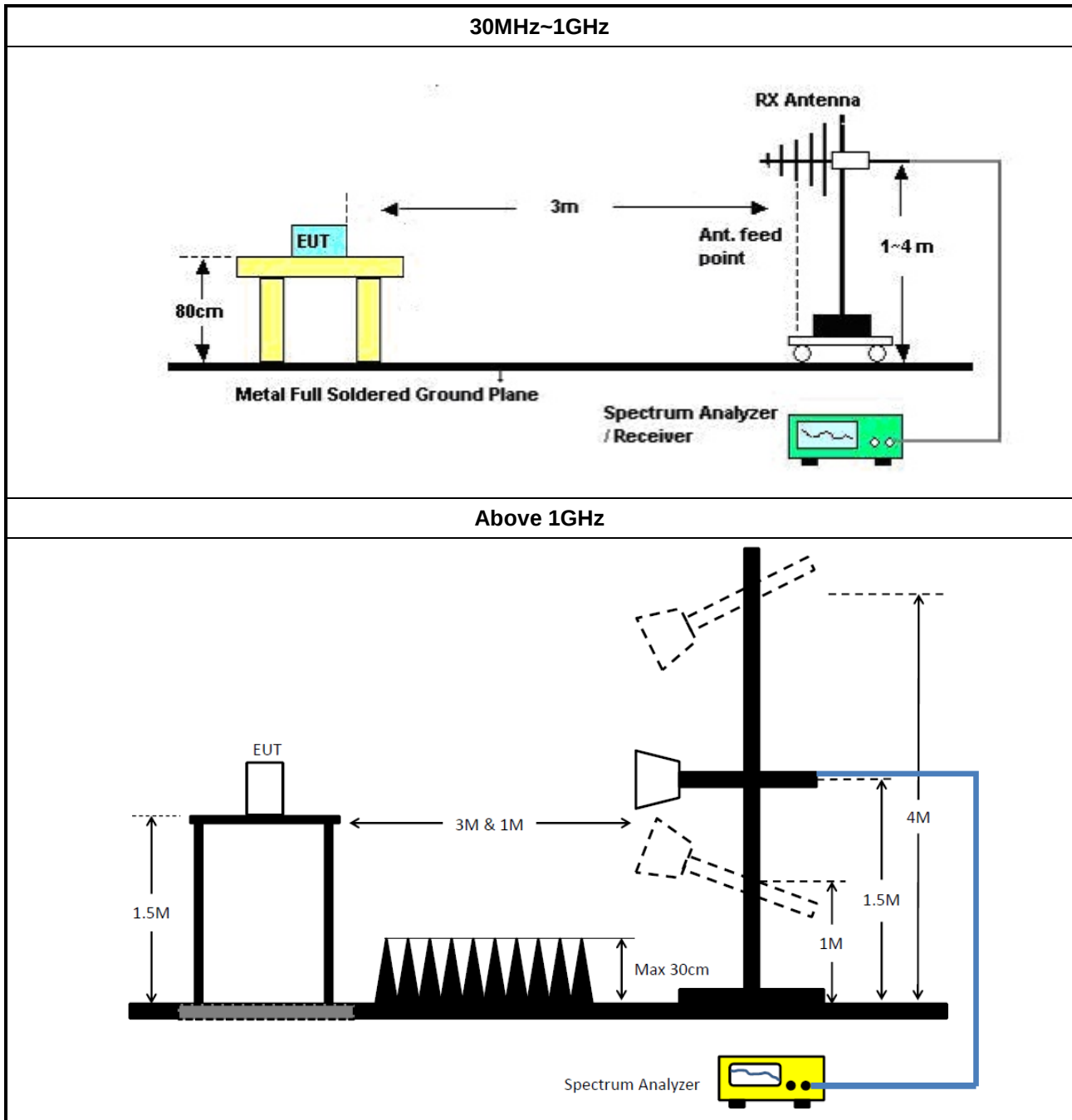
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.

3.6.4 Test Setup





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

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

3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

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

NCR : Non-Calibration Require

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	25/Oct/2018	24/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	25/Oct/2018	24/Oct/2019
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	27Jul/2018	02/Jul/2019
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	23/Oct/2018	22/Oct/2019
Signal Analyzer	R&S	FSV40	101500	10Hz ~ 40GHz	18/Jul/2018	17/Jul/2019
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	10/Apr/2018	09/Apr/2019
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	19/Jan/2018	18/Jan/2019
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	19/Jan/2018	18/Jan/2019
Bilog Antenna	SCHAFFNER	CBL 6112B	2723	30MHz ~ 1GHz	13/Oct/2018	12/Oct/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	12/Mar/2018	11/Mar/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	11/May/2018	10/May/2019

**Instrument for Conducted Test**

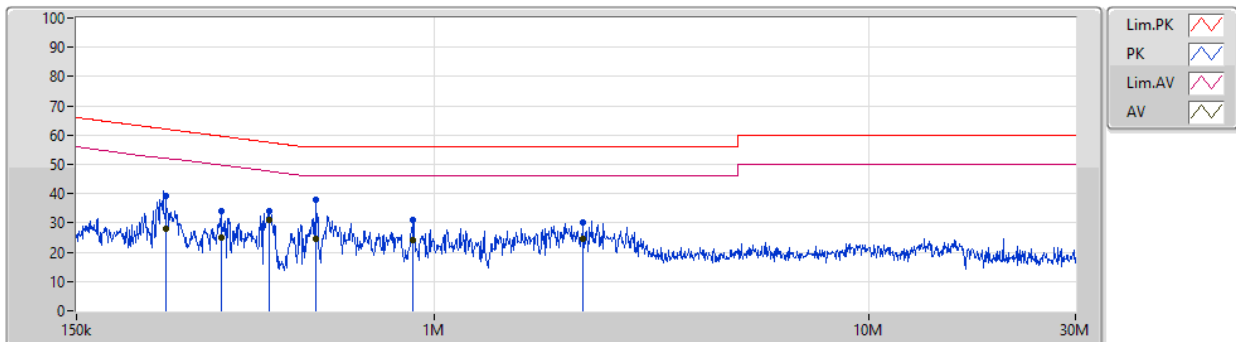
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	05/Feb/2018	04/Feb/2019
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
CABLE 0.2m	HUBER	MY37960/4	RF Cable - 17	1 ~ 18GHz	17/Jan/2018	16/Jan/2019
CABLE 0.2m	HUBER	MY37960/4	RF Cable - 17	30 ~ 1000MHz	17/Jan/2018	16/Jan/2019
CABLE 0.5m	HUBER	MY37963/4	RF Cable - 22	1 ~ 18GHz	17/Jan/2018	16/Jan/2019

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Test fixture mode		

AC Conduction_Mode 1

02/01/2019



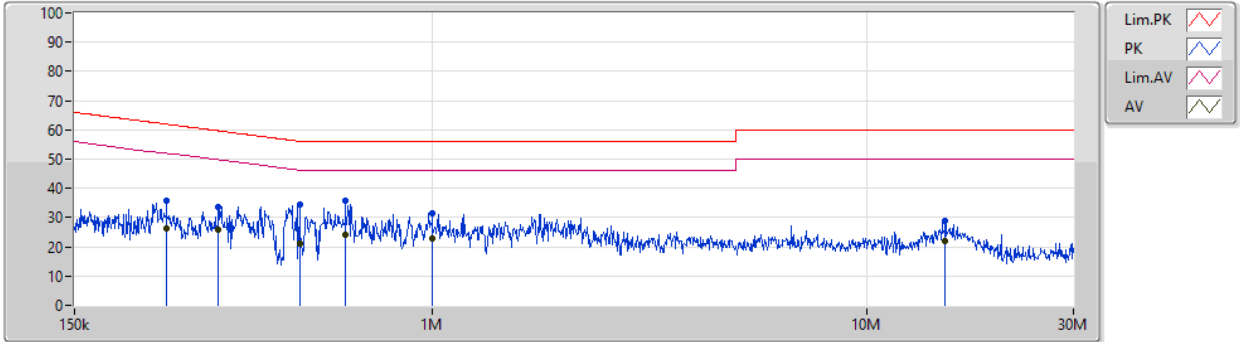
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	241.59k	39.20	62.04	-22.84	19.47	Neutral	-	19.73	9.59	0.01	9.87			
AV	241.59k	28.01	52.04	-24.03	19.47	Neutral	-	8.54	9.59	0.01	9.87			
QP	322.644k	34.18	59.63	-25.45	19.48	Neutral	-	14.70	9.59	0.01	9.88			
AV	322.644k	25.11	49.63	-24.52	19.48	Neutral	-	5.63	9.59	0.01	9.88			
QP	417.737k	33.89	57.49	-23.60	19.48	Neutral	-	14.41	9.59	0.01	9.88			
AV	417.737k	30.85	47.49	-16.64	19.48	Neutral	"Worst"	11.37	9.59	0.01	9.88			
QP	534.782k	37.81	56.00	-18.19	19.48	Neutral	-	18.33	9.59	0.01	9.88			
AV	534.782k	24.73	46.00	-21.27	19.48	Neutral	-	5.25	9.59	0.01	9.88			
QP	892.301k	30.90	56.00	-25.10	19.49	Neutral	-	11.41	9.59	0.02	9.88			
AV	892.301k	24.12	46.00	-21.88	19.49	Neutral	-	4.63	9.59	0.02	9.88			
QP	2.201M	30.32	56.00	-25.68	19.53	Neutral	-	10.79	9.61	0.03	9.89			
AV	2.201M	24.38	46.00	-21.62	19.53	Neutral	-	4.85	9.61	0.03	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Test fixture mode		

AC Conduction_Mode 1

02/01/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	244.365k	35.87	61.95	-26.08	19.48	Line	-	16.39	9.60	0.01	9.87			
AV	244.365k	26.46	51.95	-25.49	19.48	Line	-	6.98	9.60	0.01	9.87			
QP	320.923k	33.69	59.69	-26.00	19.48	Line	-	14.21	9.59	0.01	9.88			
AV	320.923k	26.02	49.69	-23.67	19.48	Line	-	6.54	9.59	0.01	9.88			
QP	495.252k	34.56	56.08	-21.52	19.48	Line	-	15.08	9.59	0.01	9.88			
AV	495.252k	20.93	46.08	-25.15	19.48	Line	-	1.45	9.59	0.01	9.88			
QP	632.97k	35.74	56.00	-20.26	19.48	Line	"Worst"	16.26	9.59	0.01	9.88			
AV	632.97k	24.32	46.00	-21.68	19.48	Line	-	4.84	9.59	0.01	9.88			
QP	998.372k	31.50	56.00	-24.50	19.50	Line	-	12.00	9.60	0.02	9.88			
AV	998.372k	22.98	46.00	-23.02	19.50	Line	-	3.48	9.60	0.02	9.88			
QP	15.189M	28.73	60.00	-31.27	19.64	Line	-	9.09	9.65	0.09	9.90			
AV	15.189M	22.04	50.00	-27.96	19.64	Line	-	2.40	9.65	0.09	9.90			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	7.55M	12.794M	12M8G1D	7.05M	12.369M
802.11g_Nss1,(6Mbps)_2TX	16.425M	19.04M	19M0D1D	16.3M	16.442M
802.11n HT20_Nss1,(MCS0)_2TX	17.675M	19.49M	19M5D1D	17.525M	17.616M
802.11n HT40_Nss1,(MCS0)_2TX	36.45M	36.282M	36M3D1D	35.45M	36.082M

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

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

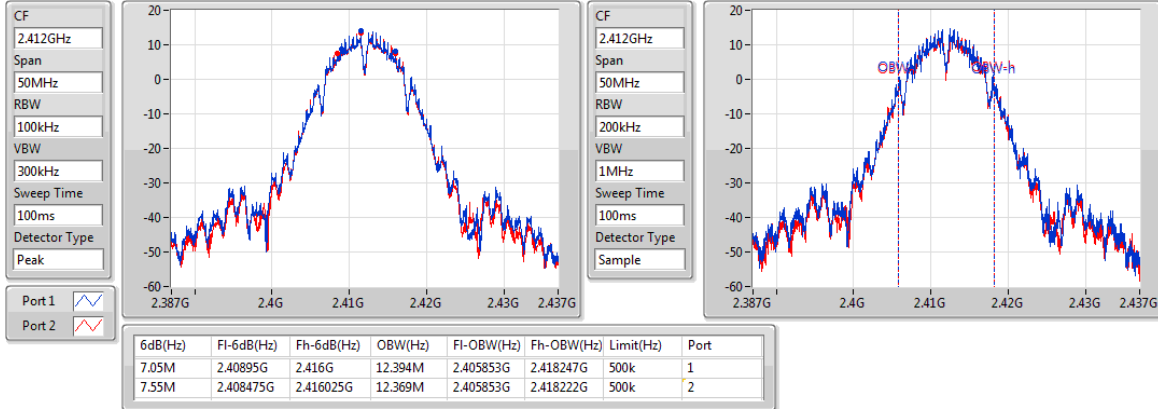
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	7.05M	12.394M	7.55M	12.369M
2437MHz_TnomVnom	Pass	500k	7.525M	12.769M	7.5M	12.769M
2462MHz_TnomVnom	Pass	500k	7.05M	12.794M	7.5M	12.769M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	16.325M	16.492M	16.425M	16.442M
2437MHz_TnomVnom	Pass	500k	16.3M	19.04M	16.35M	18.791M
2462MHz_TnomVnom	Pass	500k	16.35M	16.467M	16.375M	16.467M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	17.675M	17.666M	17.675M	17.641M
2437MHz_TnomVnom	Pass	500k	17.65M	19.49M	17.525M	18.941M
2462MHz_TnomVnom	Pass	500k	17.575M	17.616M	17.55M	17.666M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	500k	36.4M	36.132M	35.45M	36.282M
2437MHz_TnomVnom	Pass	500k	36.4M	36.132M	36.15M	36.182M
2452MHz_TnomVnom	Pass	500k	36.45M	36.082M	35.85M	36.182M

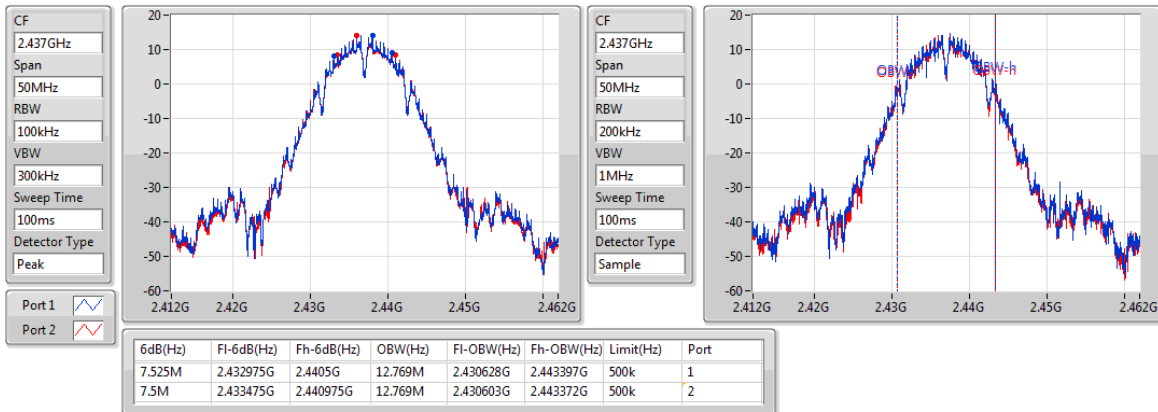
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

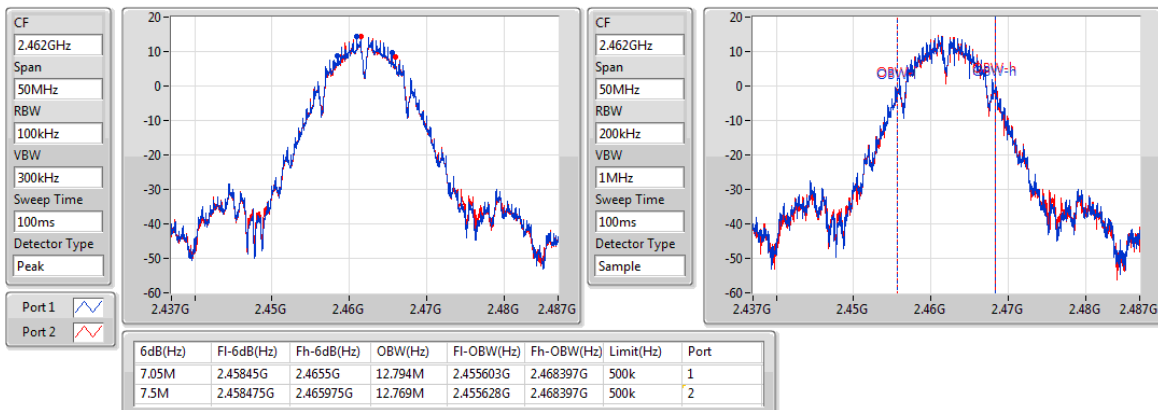
02/01/2019


802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

02/01/2019

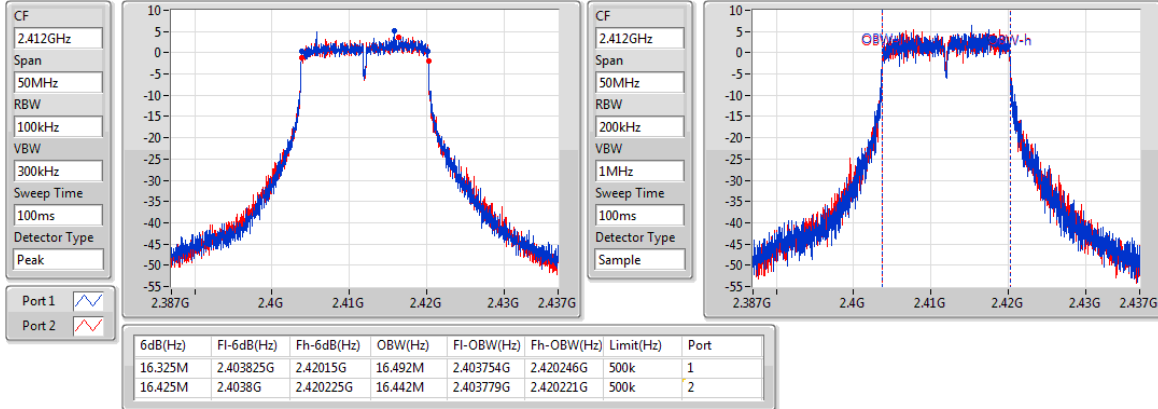

802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

02/01/2019

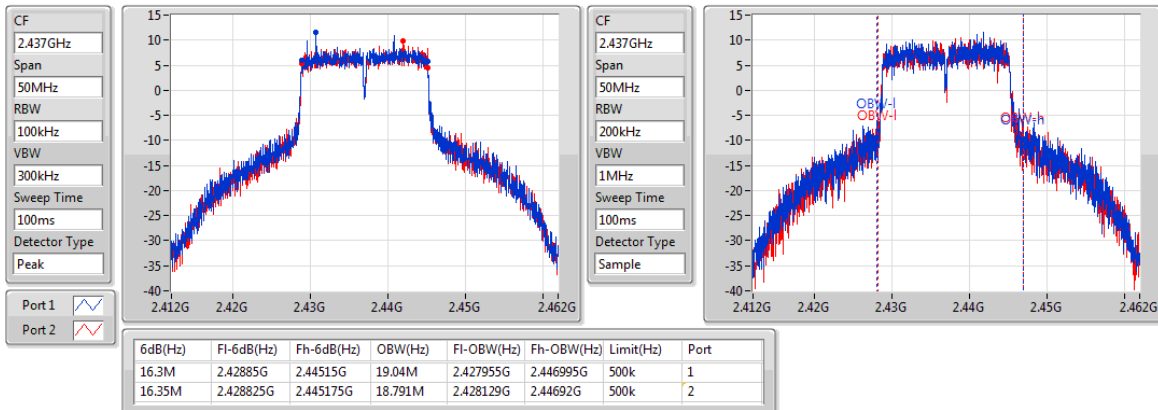


802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

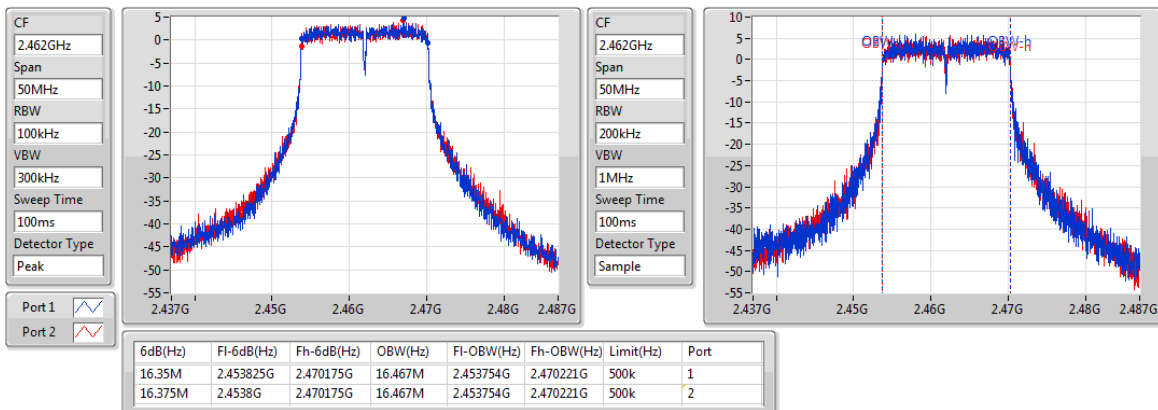
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802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

02/01/2019

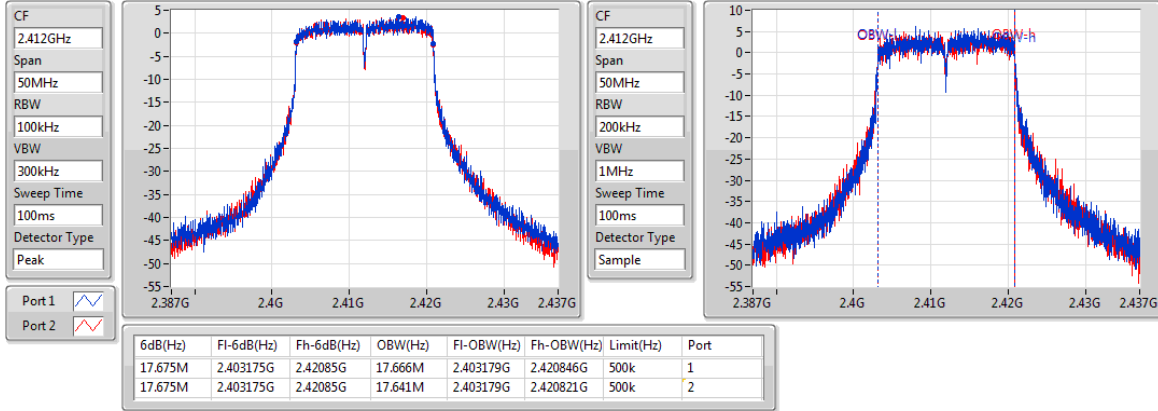

802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

02/01/2019

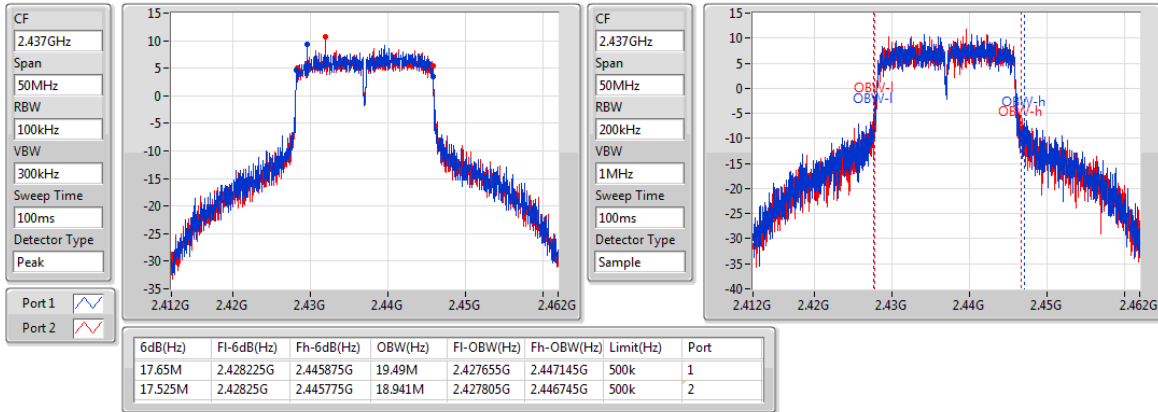


802.11n HT20_Nss1,(MCS0)_2TX
EBW
2412MHz

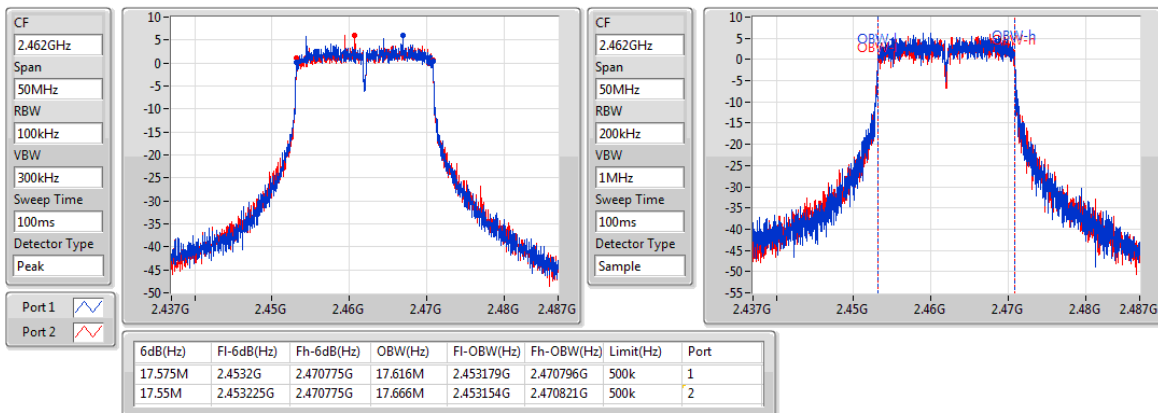
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802.11n HT20_Nss1,(MCS0)_2TX
EBW
2437MHz

02/01/2019

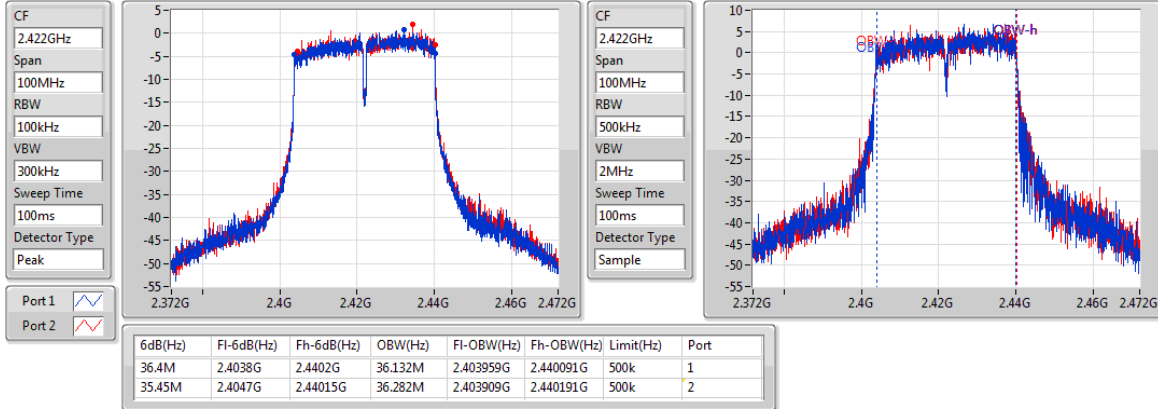

802.11n HT20_Nss1,(MCS0)_2TX
EBW
2462MHz

02/01/2019

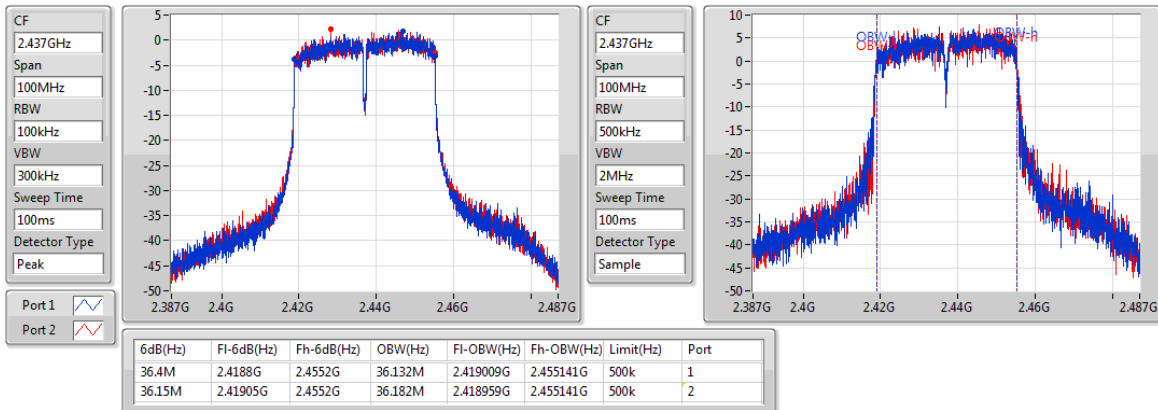


802.11n HT40_Nss1,(MCS0)_2TX
EBW
2422MHz

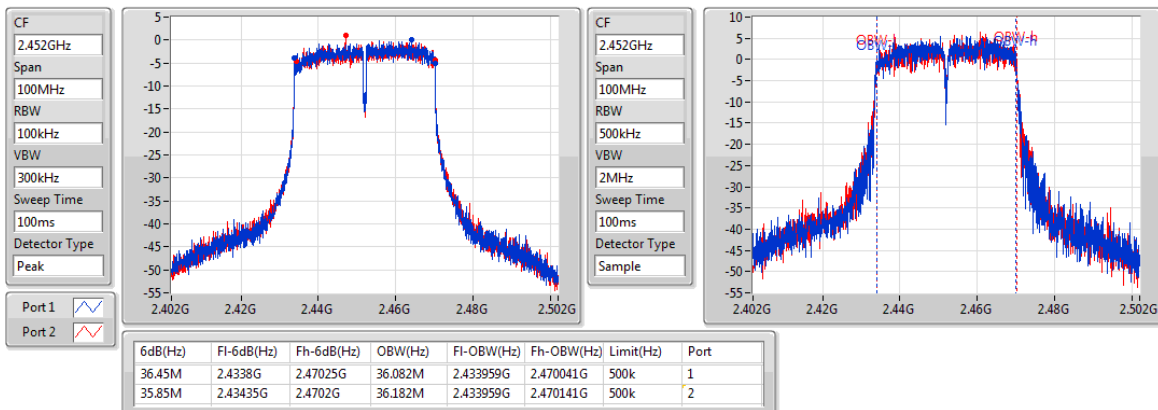
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802.11n HT40_Nss1,(MCS0)_2TX
EBW
2437MHz

02/01/2019


802.11n HT40_Nss1,(MCS0)_2TX
EBW
2452MHz

02/01/2019



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	25.37	0.34435
802.11g_Nss1,(6Mbps)_2TX	25.25	0.33497
802.11n HT20_Nss1,(MCS0)_2TX	25.19	0.33037
802.11n HT40_Nss1,(MCS0)_2TX	20.23	0.10544

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.00	21.75	21.61	24.69	30.00
2417MHz	Pass	5.00	22.39	22.33	25.37	30.00
2437MHz	Pass	5.00	22.21	22.12	25.18	30.00
2462MHz	Pass	5.00	22.30	22.38	25.35	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.00	17.07	17.03	20.06	30.00
2417MHz	Pass	5.00	18.35	18.12	21.25	30.00
2422MHz	Pass	5.00	19.71	19.55	22.64	30.00
2427MHz	Pass	5.00	21.03	20.78	23.92	30.00
2432MHz	Pass	5.00	22.07	21.95	25.02	30.00
2437MHz	Pass	5.00	22.30	22.18	25.25	30.00
2442MHz	Pass	5.00	22.02	21.80	24.92	30.00
2447MHz	Pass	5.00	21.58	21.39	24.50	30.00
2452MHz	Pass	5.00	20.37	20.12	23.26	30.00
2457MHz	Pass	5.00	18.88	18.64	21.77	30.00
2462MHz	Pass	5.00	17.61	17.65	20.64	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.00	17.53	17.42	20.49	30.00
2417MHz	Pass	5.00	18.17	18.10	21.15	30.00
2422MHz	Pass	5.00	19.00	18.93	21.98	30.00
2427MHz	Pass	5.00	20.94	20.76	23.86	30.00
2432MHz	Pass	5.00	21.19	21.11	24.16	30.00
2437MHz	Pass	5.00	22.24	22.12	25.19	30.00
2442MHz	Pass	5.00	21.90	21.77	24.85	30.00
2447MHz	Pass	5.00	21.23	20.96	24.11	30.00
2452MHz	Pass	5.00	19.90	19.70	22.81	30.00
2457MHz	Pass	5.00	18.81	18.61	21.72	30.00
2462MHz	Pass	5.00	18.07	17.96	21.03	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.00	15.76	15.81	18.80	30.00
2427MHz	Pass	5.00	15.81	15.62	18.73	30.00
2432MHz	Pass	5.00	16.35	16.28	19.33	30.00
2437MHz	Pass	5.00	17.23	17.21	20.23	30.00
2442MHz	Pass	5.00	16.19	16.07	19.14	30.00
2447MHz	Pass	5.00	16.20	15.39	18.82	30.00



AV Power Result

Appendix C

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
2452MHz	Pass	5.00	15.59	15.35	18.48	30.00

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

Note : Conducted average output power is for reference only

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	1.39
802.11g_Nss1,(6Mbps)_2TX	-2.73
802.11n HT20_Nss1,(MCS0)_2TX	-2.86
802.11n HT40_Nss1,(MCS0)_2TX	-9.71

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.01	-1.31	-0.69	1.39	5.99
2437MHz	Pass	8.01	-1.62	-1.10	0.22	5.99
2462MHz	Pass	8.01	-0.73	-0.45	0.99	5.99
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.01	-8.42	-7.50	-7.09	5.99
2437MHz	Pass	8.01	-3.80	-4.29	-2.73	5.99
2462MHz	Pass	8.01	-8.21	-8.44	-6.96	5.99
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.01	-8.66	-8.47	-7.35	5.99
2437MHz	Pass	8.01	-4.15	-3.47	-2.86	5.99
2462MHz	Pass	8.01	-8.54	-7.37	-5.37	5.99
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	8.01	-12.88	-12.60	-11.05	5.99
2437MHz	Pass	8.01	-11.06	-11.66	-9.71	5.99
2452MHz	Pass	8.01	-12.62	-13.50	-11.73	5.99

DG = Directional Gain; RBW=3kHz;

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

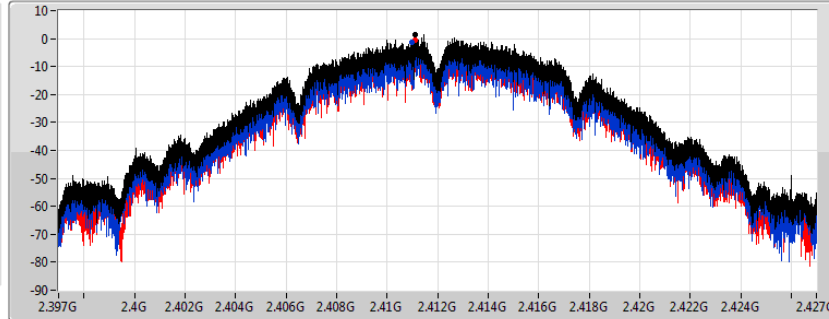
802.11b_Nss1,(1Mbps)_2TX

2412MHz

PSD

02/01/2019

CF
2.412GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
334ms
Detector Type
Peak



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.39	1.39	-1.31	-0.69

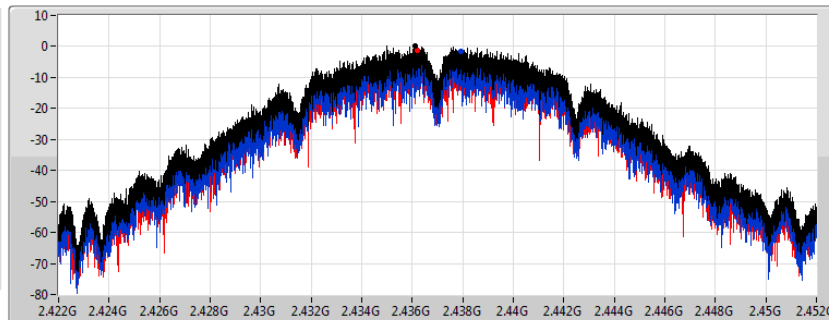
802.11b_Nss1,(1Mbps)_2TX

2437MHz

PSD

02/01/2019

CF
2.437GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
334ms
Detector Type
Peak



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.22	0.22	-1.62	-1.10

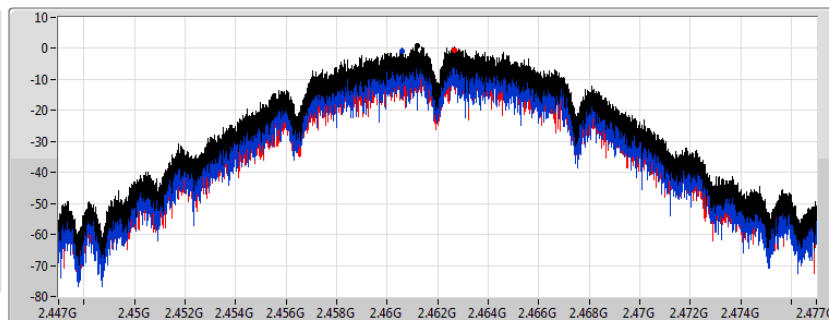
802.11b_Nss1,(1Mbps)_2TX

2462MHz

PSD

02/01/2019

CF
2.462GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
334ms
Detector Type
Peak



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.99	0.99	-0.73	-0.45

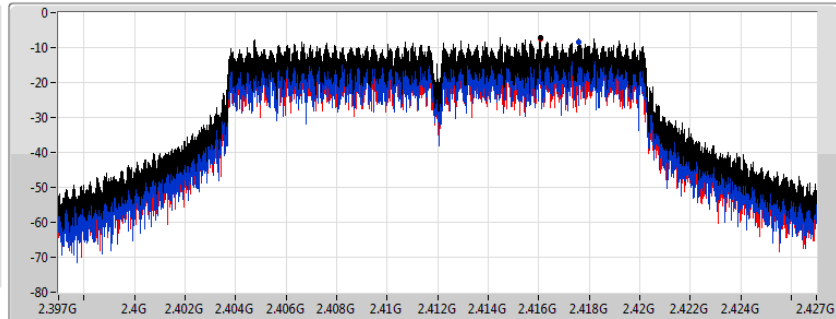
802.11g_Nss1,(6Mbps)_2TX

2412MHz

PSD

02/01/2019

CF
2.412GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
334ms
Detector Type
Peak



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-7.09	-7.09	-8.42	-7.50

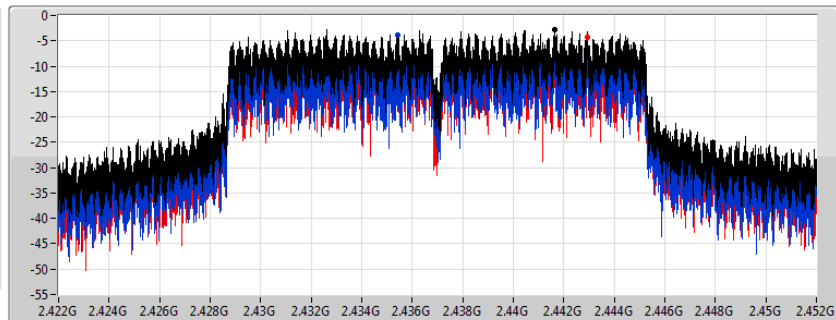
802.11g_Nss1,(6Mbps)_2TX

2437MHz

PSD

02/01/2019

CF
2.437GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
334ms
Detector Type
Peak



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-2.73	-2.73	-3.80	-4.29

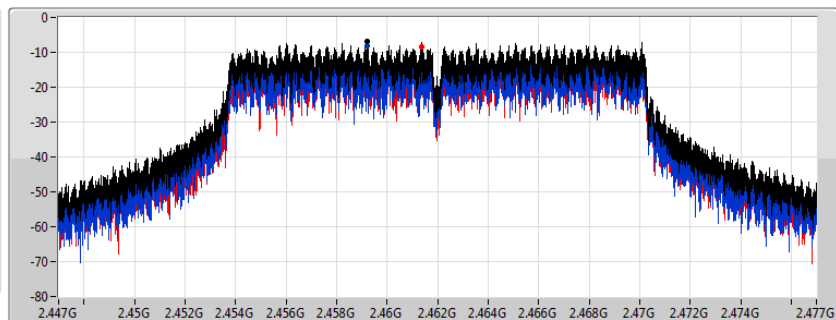
802.11g_Nss1,(6Mbps)_2TX

2462MHz

PSD

02/01/2019

CF
2.462GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
334ms
Detector Type
Peak



Sum
Port 1
Port 2

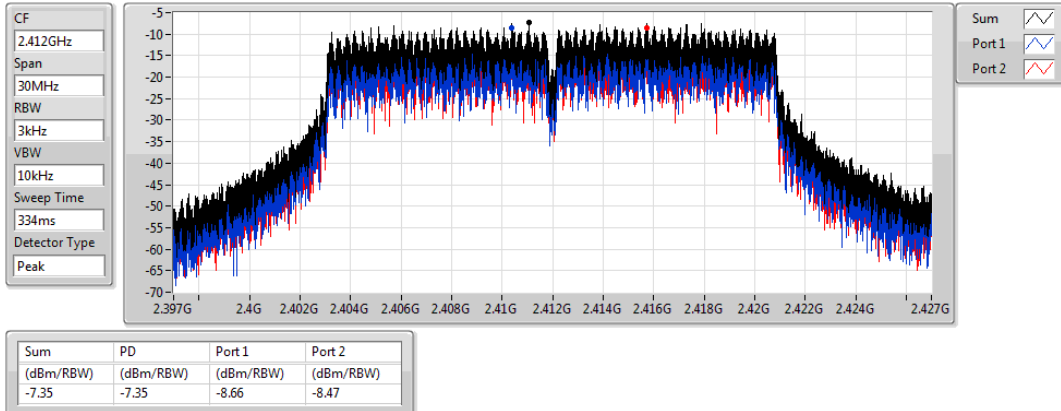
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-6.96	-6.96	-8.21	-8.44

802.11n HT20_Nss1,(MCS0)_2TX

PSD

2412MHz

02/01/2019

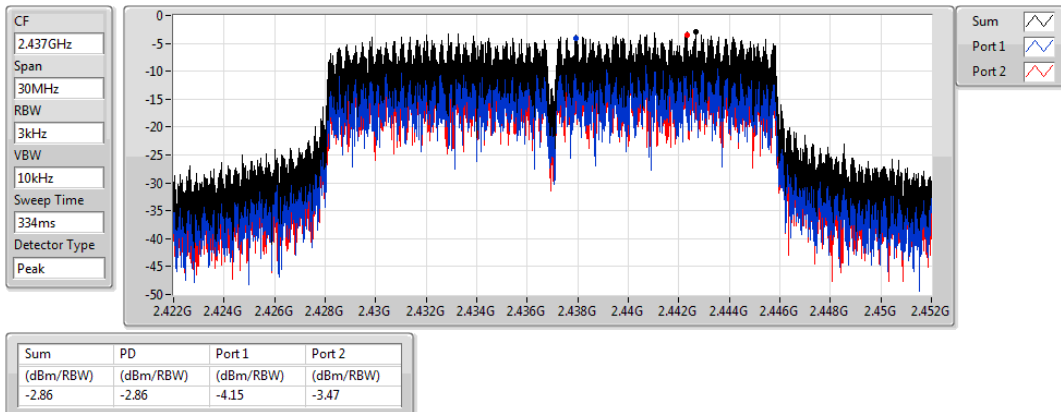


802.11n HT20_Nss1,(MCS0)_2TX

PSD

2437MHz

02/01/2019

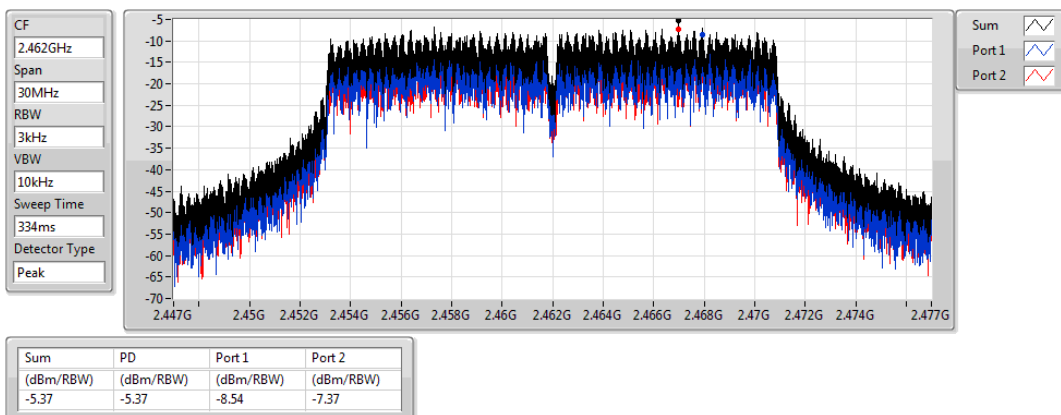


802.11n HT20_Nss1,(MCS0)_2TX

PSD

2462MHz

02/01/2019

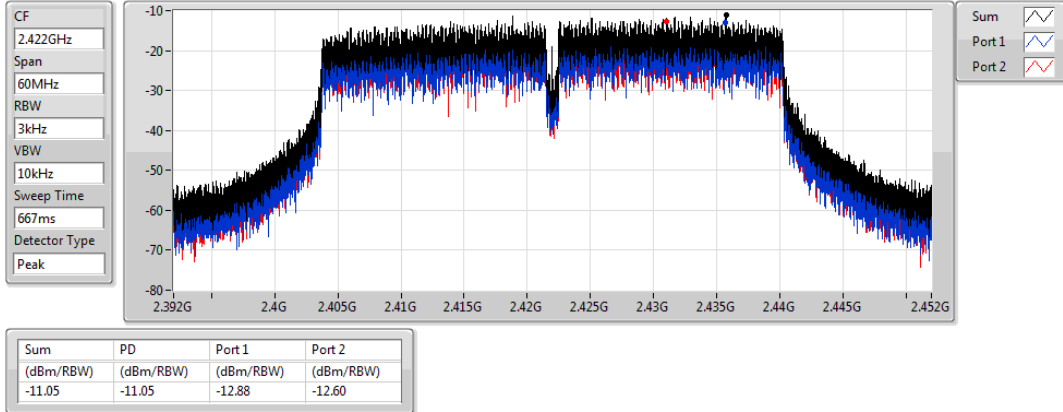


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2422MHz

02/01/2019

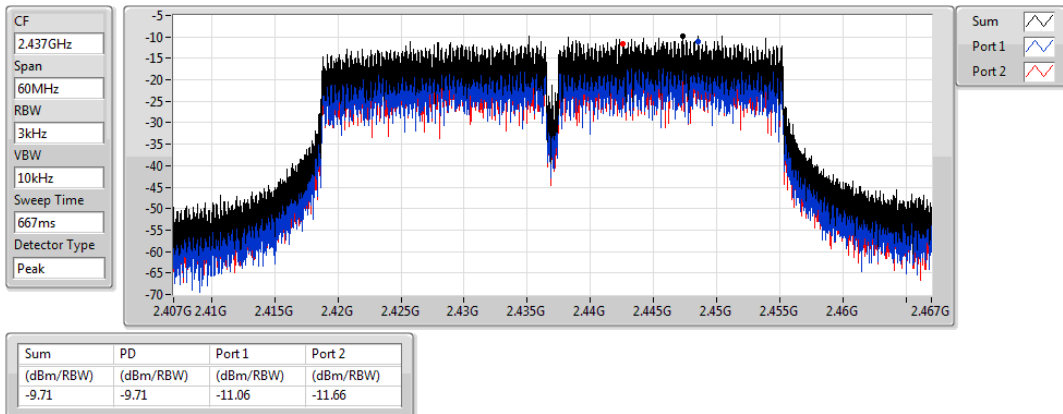


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2437MHz

02/01/2019

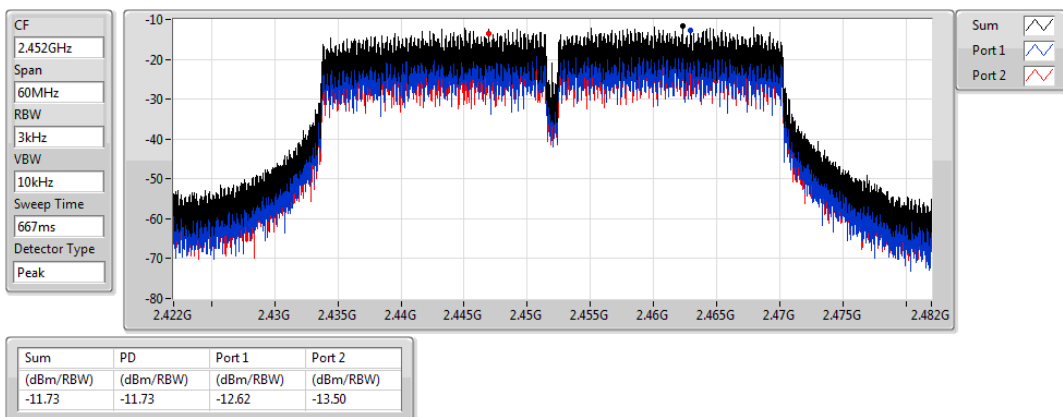


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2452MHz

02/01/2019



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.4635G	13.45	-16.55	2.30117G	-44.90	2.39598G	-29.03	2.52276G	-43.58	24.92414G	-30.09	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.44175G	8.72	-21.28	2.13661G	-45.31	2.39982G	-29.75	2.50922G	-43.16	24.68252G	-30.11	2
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.44451G	11.55	-18.45	2.03467G	-45.33	2.39974G	-26.58	2.50876G	-43.26	24.4409G	-29.45	2
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.44542G	1.71	-28.29	2.11991G	-45.58	2.39796G	-37.56	2.48538G	-40.48	24.43067G	-29.06	2

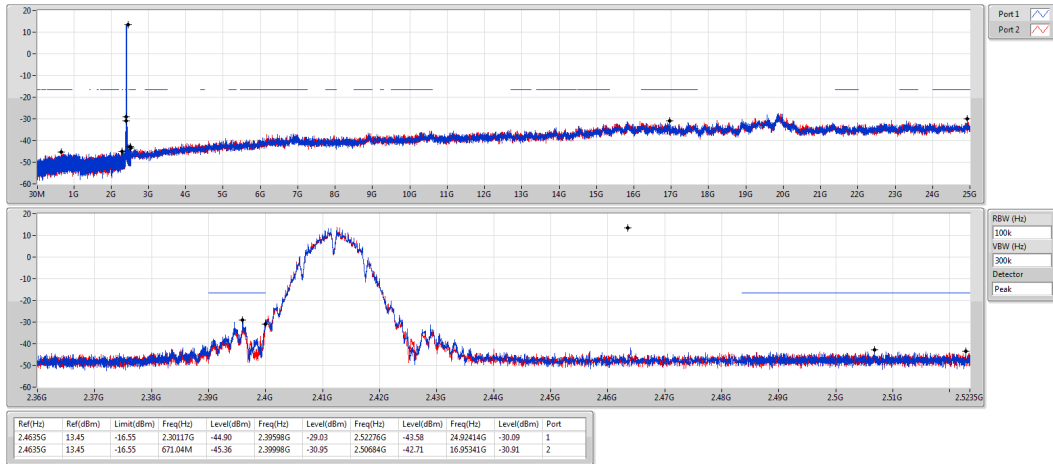
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.4635G	13.45	-16.55	2.30117G	-44.90	2.39598G	-29.03	2.52276G	-43.58	24.92414G	-30.09	1
2412MHz_TnomVnom	Pass	2.4635G	13.45	-16.55	671.04M	-45.36	2.39998G	-30.95	2.50684G	-42.71	16.95341G	-30.91	2
2437MHz_TnomVnom	Pass	2.4635G	13.45	-16.55	2.037G	-44.98	2.39646G	-44.54	2.49382G	-43.30	24.94381G	-31.07	1
2437MHz_TnomVnom	Pass	2.4635G	13.45	-16.55	777.35M	-45.29	2.3908G	-44.60	2.51072G	-43.18	24.50552G	-30.89	2
2462MHz_TnomVnom	Pass	2.4635G	13.45	-16.55	2.11972G	-45.17	2.39518G	-44.69	2.48358G	-40.83	24.92414G	-31.26	1
2462MHz_TnomVnom	Pass	2.4635G	13.45	-16.55	2.00759G	-44.73	2.3901G	-44.22	2.48562G	-41.72	17.55185G	-30.91	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.44175G	8.72	-21.28	2.13865G	-44.38	2.39978G	-29.77	2.52132G	-43.40	24.46337G	-29.88	1
2412MHz_TnomVnom	Pass	2.44175G	8.72	-21.28	2.13661G	-45.31	2.39982G	-29.75	2.50922G	-43.16	24.68252G	-30.11	2
2437MHz_TnomVnom	Pass	2.44175G	8.72	-21.28	2.13108G	-45.76	2.39884G	-35.21	2.48666G	-40.78	24.44371G	-30.24	1
2437MHz_TnomVnom	Pass	2.44175G	8.72	-21.28	1.71576G	-45.00	2.39976G	-35.39	2.48782G	-40.51	24.47461G	-29.92	2
2462MHz_TnomVnom	Pass	2.44175G	8.72	-21.28	2.13661G	-43.92	2.39502G	-44.54	2.4851G	-40.34	24.71062G	-30.43	1
2462MHz_TnomVnom	Pass	2.44175G	8.72	-21.28	2.00817G	-44.19	2.39658G	-44.10	2.4846G	-40.13	23.39574G	-29.99	2
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.44451G	11.55	-18.45	2.19486G	-45.09	2.39986G	-27.39	2.48952G	-42.18	24.44652G	-29.94	1
2412MHz_TnomVnom	Pass	2.44451G	11.55	-18.45	2.03467G	-45.33	2.39974G	-26.58	2.50876G	-43.26	24.4409G	-29.45	2
2437MHz_TnomVnom	Pass	2.44451G	11.55	-18.45	2.10108G	-45.50	2.39824G	-34.35	2.48358G	-37.08	24.34537G	-29.58	1
2437MHz_TnomVnom	Pass	2.44451G	11.55	-18.45	2.13749G	-44.56	2.398G	-34.44	2.4893G	-40.62	24.51956G	-29.48	2
2462MHz_TnomVnom	Pass	2.44451G	11.55	-18.45	2.12176G	-44.51	2.39848G	-44.18	2.4851G	-38.20	24.2948G	-29.81	1
2462MHz_TnomVnom	Pass	2.44451G	11.55	-18.45	2.10195G	-45.26	2.39978G	-43.22	2.48356G	-37.66	24.16837G	-28.85	2
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.44542G	1.71	-28.29	2.089G	-44.27	2.39996G	-34.26	2.53598G	-43.02	24.3858G	-30.14	1
2422MHz_TnomVnom	Pass	2.44542G	1.71	-28.29	2.07583G	-44.21	2.39924G	-32.29	2.49194G	-42.24	24.41104G	-29.32	2
2437MHz_TnomVnom	Pass	2.44542G	1.71	-28.29	2.1388G	-45.06	2.39824G	-38.18	2.48382G	-41.42	23.36774G	-29.39	1
2437MHz_TnomVnom	Pass	2.44542G	1.71	-28.29	2.11991G	-45.58	2.39796G	-37.56	2.48538G	-40.48	24.43067G	-29.06	2
2452MHz_TnomVnom	Pass	2.44542G	1.71	-28.29	2.12421G	-44.34	2.39208G	-43.45	2.4867G	-38.12	24.71393G	-30.58	1
2452MHz_TnomVnom	Pass	2.44542G	1.71	-28.29	1.90093G	-45.23	2.39796G	-42.45	2.48506G	-38.61	24.00158G	-29.66	2

802.11b_Nss1,(1Mbps)_2TX 2412MHz

CSE NdB

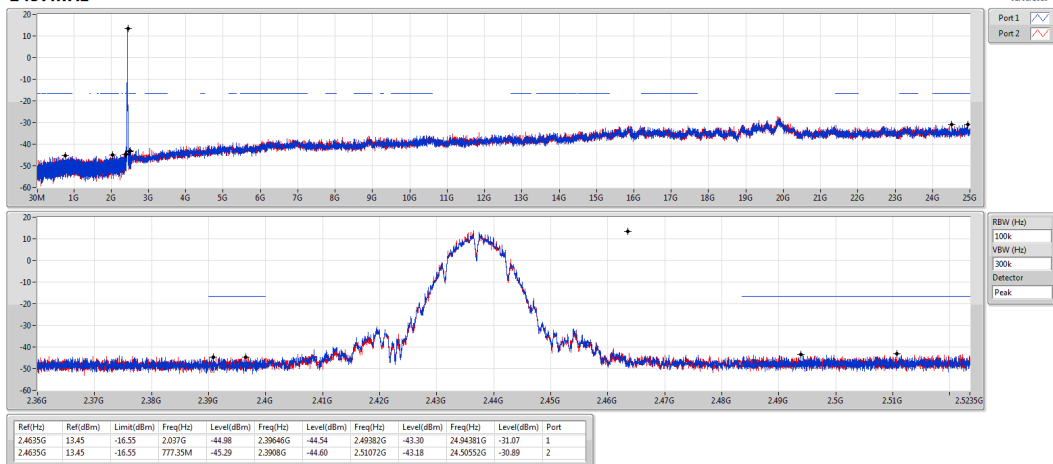
02/01/2019



802.11b_Nss1,(1Mbps)_2TX 2437MHz

CSE NdB

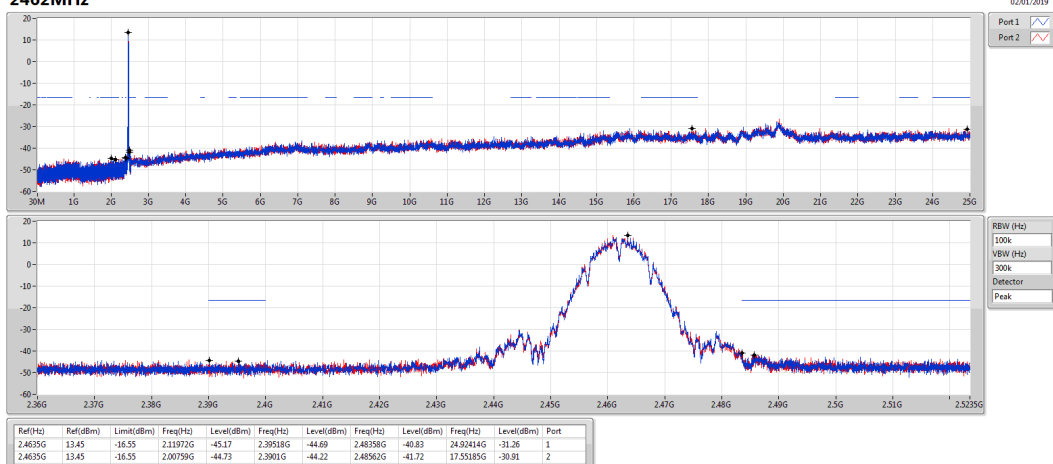
02/01/2019



802.11b_Nss1,(1Mbps)_2TX 2462MHz

CSE NdB

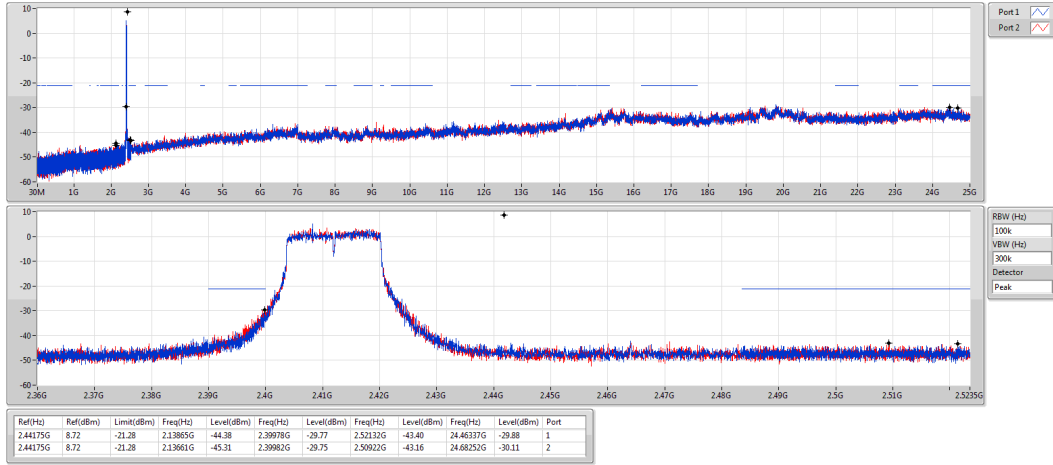
02/01/2019



802.11g_Nss1.(6Mbps)_2TX

CSE NdB

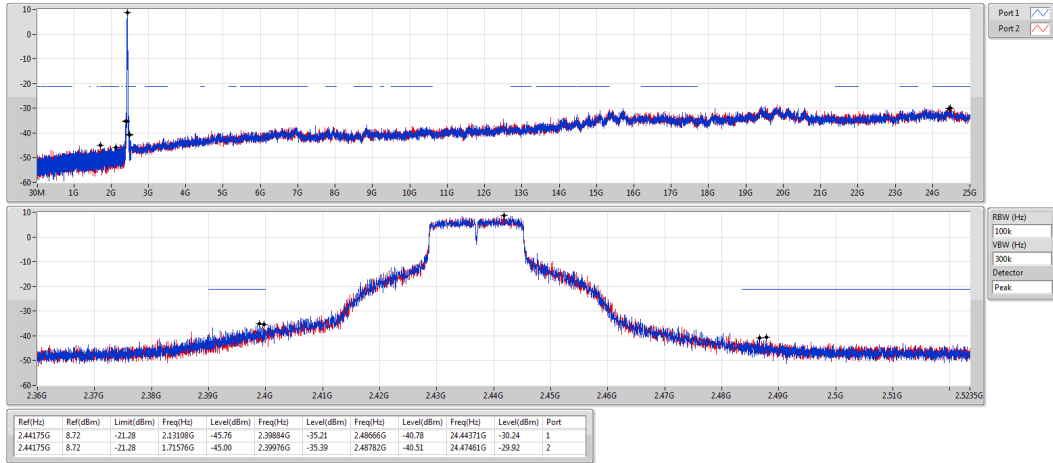
2412MHz



802.11g_Nss1.(6Mbps)_2TX

CSE NdB

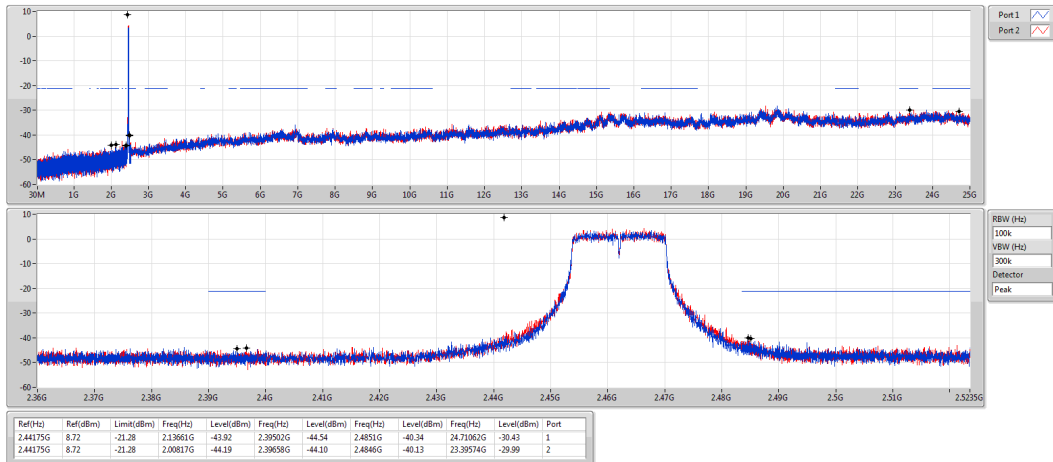
2437MHz



802.11g_Nss1.(6Mbps)_2TX

CSE NdB

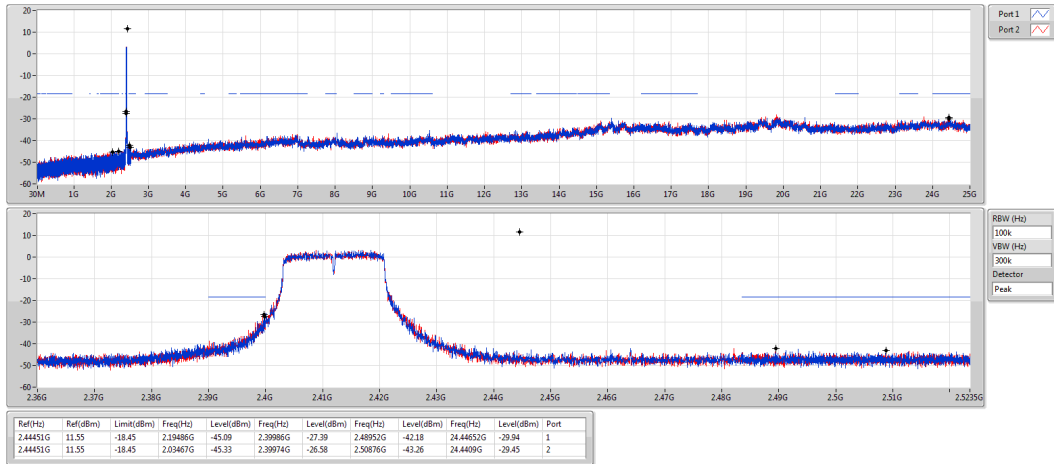
2462MHz



802.11n HT20_Nss1,(MCS0)_2TX 2412MHz

CSE NdB

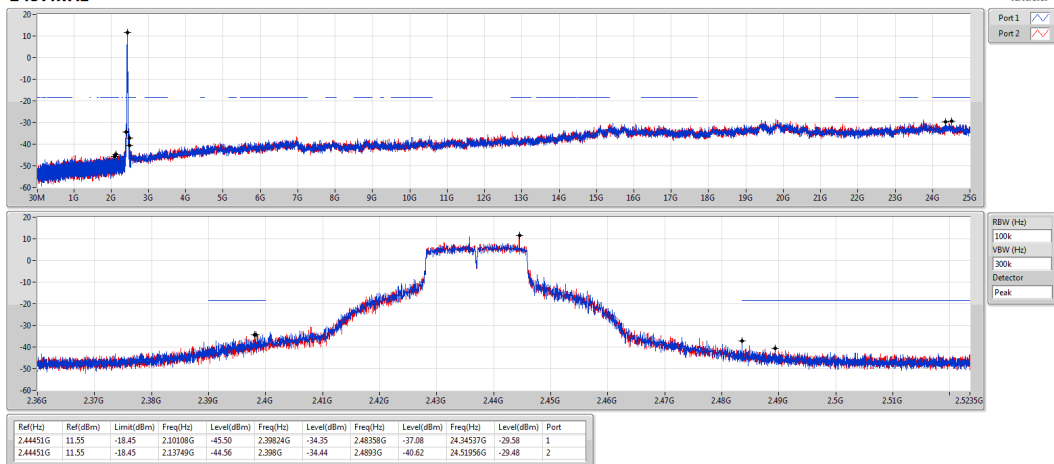
02/01/2019



802.11n HT20_Nss1,(MCS0)_2TX 2437MHz

CSE NdB

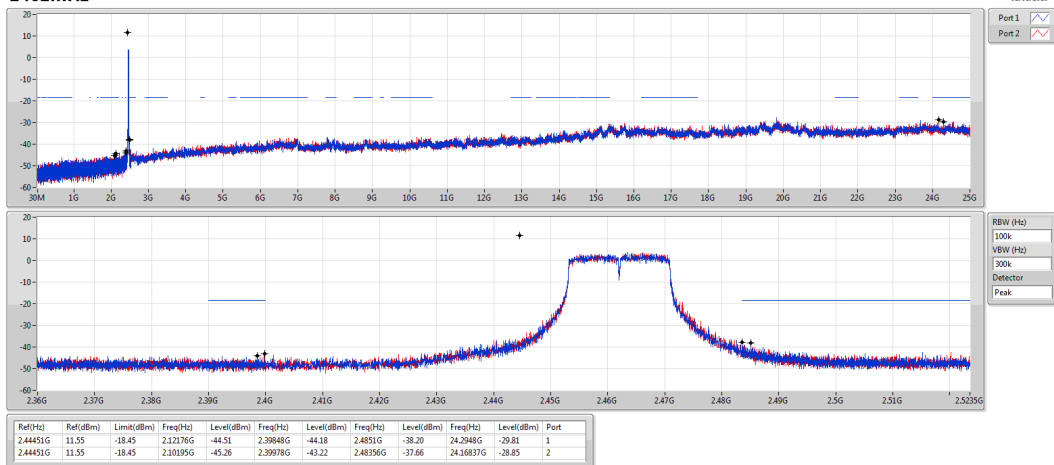
02/01/2019



802.11n HT20_Nss1,(MCS0)_2TX 2462MHz

CSE NdB

02/01/2019

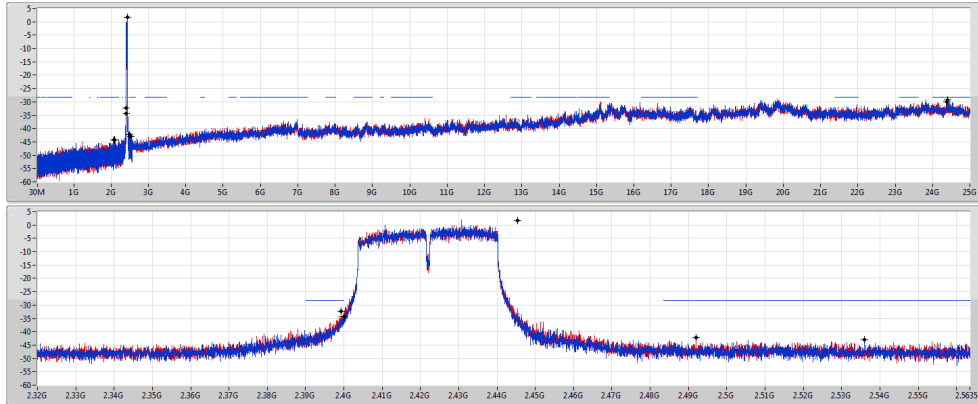


802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

2422MHz

02/01/2019



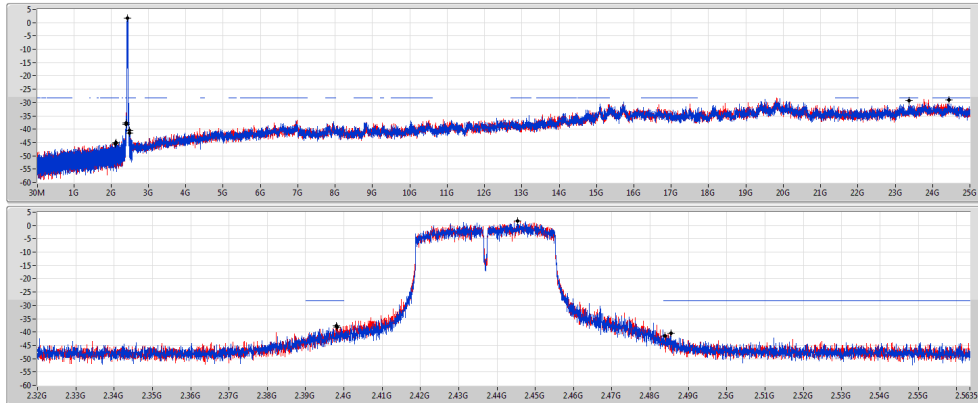
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
244542G	1.71	-28.29	2.089G	-44.27	2.39996G	-34.26	2.53598G	-43.02	24.38598G	-30.14	1
244542G	1.71	-28.29	2.07583G	-44.21	2.39924G	-32.29	2.49194G	-42.24	24.41104G	-29.32	2

802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

2437MHz

02/01/2019



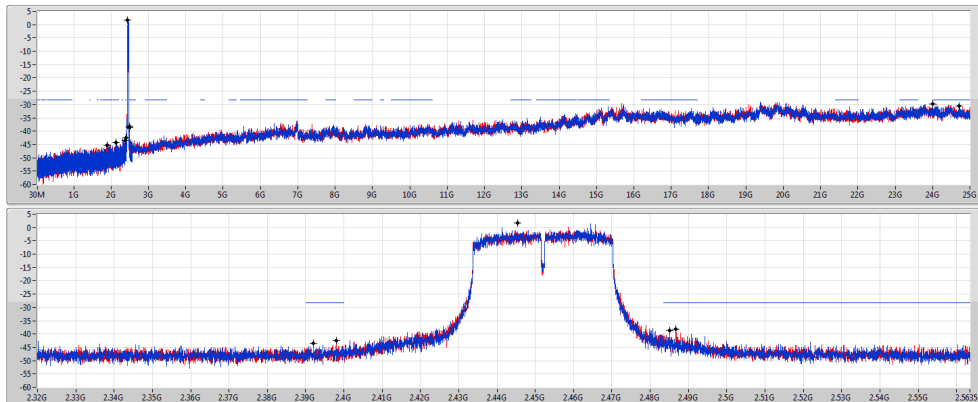
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
244542G	1.71	-28.29	2.1388G	-45.06	2.39824G	-38.18	2.48382G	-41.42	23.36774G	-29.39	1
244542G	1.71	-28.29	2.11991G	-45.58	2.39796G	-37.56	2.48538G	-40.48	24.43067G	-29.06	2

802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

2452MHz

02/01/2019



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
244542G	1.71	-28.29	2.12421G	-44.34	2.39208G	-43.45	2.4867G	-38.12	24.71393G	-30.58	1
244542G	1.71	-28.29	1.90093G	-45.23	2.39796G	-42.45	2.48506G	-38.61	24.00158G	-29.66	2

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	PK	299.66M	42.84	46.00	-3.16	-5.86	3	Horizontal	360	1.00	-

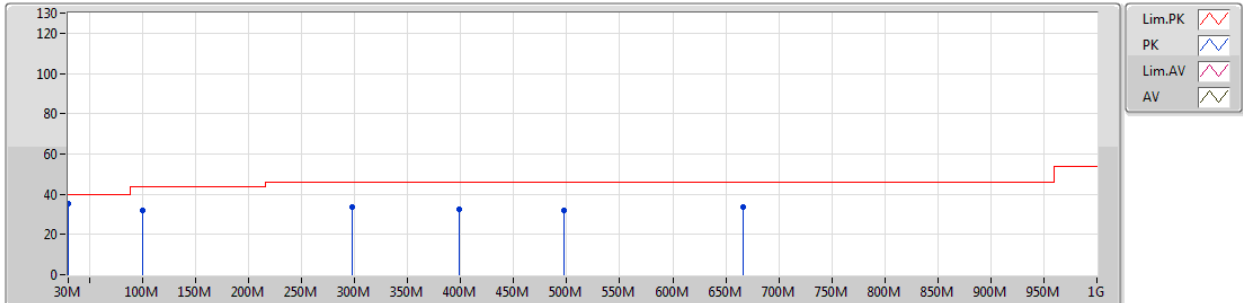
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	30M	35.35	40.00	-4.65	-4.63	3	Vertical	0	1.00	-
2437MHz	Pass	PK	99.84M	31.99	43.50	-11.51	-10.24	3	Vertical	0	1.00	-
2437MHz	Pass	PK	297.72M	33.41	46.00	-12.59	-5.90	3	Vertical	0	1.00	-
2437MHz	Pass	PK	398.6M	32.54	46.00	-13.46	-3.85	3	Vertical	0	1.00	-
2437MHz	Pass	PK	497.54M	31.72	46.00	-14.28	-2.37	3	Vertical	0	1.00	-
2437MHz	Pass	PK	666.32M	33.61	46.00	-12.39	-0.28	3	Vertical	0	1.00	-
2437MHz	Pass	PK	99.84M	38.51	43.50	-4.99	-10.24	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	214.3M	39.24	43.50	-4.26	-10.54	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	299.66M	42.84	46.00	-3.16	-5.86	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	398.6M	32.59	46.00	-13.41	-3.85	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	497.54M	33.50	46.00	-12.50	-2.37	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	800.18M	36.24	46.00	-9.76	1.20	3	Horizontal	360	1.00	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

08/01/2019

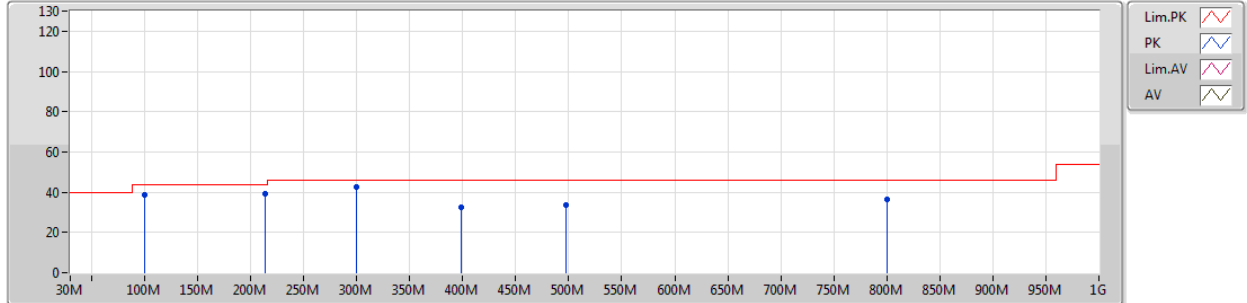


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	30M	35.35	40.00	-4.65	-4.63	3	Vertical	0	1.00	-
PK	99.84M	31.99	43.50	-11.51	-10.24	3	Vertical	0	1.00	-
PK	297.72M	33.41	46.00	-12.59	-5.90	3	Vertical	0	1.00	-
PK	398.6M	32.54	46.00	-13.46	-3.85	3	Vertical	0	1.00	-
PK	497.54M	31.72	46.00	-14.28	-2.37	3	Vertical	0	1.00	-
PK	666.32M	33.61	46.00	-12.39	-0.28	3	Vertical	0	1.00	-

802.11n HT40_Nss1,(MCS0)_2TX

08/01/2019

2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	99.84M	38.51	43.50	-4.99	-10.24	3	Horizontal	360	1.00	-
PK	214.3M	39.24	43.50	-4.26	-10.54	3	Horizontal	360	1.00	-
PK	299.66M	42.84	46.00	-3.16	-5.86	3	Horizontal	360	1.00	-
PK	398.6M	32.59	46.00	-13.41	-3.85	3	Horizontal	360	1.00	-
PK	497.54M	33.50	46.00	-12.50	-2.37	3	Horizontal	360	1.00	-
PK	800.18M	36.24	46.00	-9.76	1.20	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)_2TX	Pass	AV	2.3872G	53.61	54.00	-0.39	32.00	3	Vertical	142	1.50	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.389G	53.85	54.00	-0.15	32.00	3	Vertical	248	1.50	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	2.39G	53.69	54.00	-0.31	32.01	3	Vertical	186	1.50	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	AV	2.3898G	53.83	54.00	-0.17	32.01	3	Vertical	143	1.50	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3872G	53.61	54.00	-0.39	32.00	3	Vertical	142	1.50	-
2412MHz	Pass	AV	2.4136G	112.47	Inf	-Inf	32.08	3	Vertical	142	1.50	-
2412MHz	Pass	PK	2.387G	61.63	74.00	-12.37	32.00	3	Vertical	142	1.50	-
2412MHz	Pass	PK	2.414G	115.92	Inf	-Inf	32.08	3	Vertical	142	1.50	-
2412MHz	Pass	AV	4.82694G	46.83	54.00	-7.17	3.59	3	Vertical	194	2.91	-
2412MHz	Pass	PK	4.827G	51.50	74.00	-22.50	3.59	3	Vertical	194	2.91	-
2412MHz	Pass	AV	4.827G	34.16	54.00	-19.84	3.59	3	Horizontal	291	1.50	-
2412MHz	Pass	PK	4.821G	45.84	74.00	-28.16	3.58	3	Horizontal	291	1.50	-
2417MHz	Pass	AV	2.3868G	51.88	54.00	-2.12	32.00	3	Vertical	143	1.50	-
2417MHz	Pass	AV	2.4188G	111.31	Inf	-Inf	32.10	3	Vertical	143	1.50	-
2417MHz	Pass	PK	2.3876G	60.38	74.00	-13.62	32.00	3	Vertical	143	1.50	-
2417MHz	Pass	PK	2.419G	114.83	Inf	-Inf	32.10	3	Vertical	143	1.50	-
2437MHz	Pass	AV	2.3882G	45.15	54.00	-8.85	32.00	3	Vertical	334	1.50	-
2437MHz	Pass	AV	2.4386G	112.23	Inf	-Inf	32.15	3	Vertical	334	1.50	-
2437MHz	Pass	AV	2.4842G	45.51	54.00	-8.49	32.29	3	Vertical	334	1.50	-
2437MHz	Pass	PK	2.387G	57.34	74.00	-16.66	32.00	3	Vertical	334	1.50	-
2437MHz	Pass	PK	2.4386G	115.57	Inf	-Inf	32.15	3	Vertical	334	1.50	-
2437MHz	Pass	PK	2.4978G	57.23	74.00	-16.77	32.33	3	Vertical	334	1.50	-
2437MHz	Pass	AV	4.87394G	52.51	54.00	-1.49	3.69	3	Vertical	16	2.93	-
2437MHz	Pass	AV	7.3122G	50.74	54.00	-3.26	8.98	3	Vertical	185	2.91	-
2437MHz	Pass	PK	4.87394G	55.76	74.00	-18.24	3.69	3	Vertical	16	2.93	-
2437MHz	Pass	PK	7.31184G	57.32	74.00	-16.68	8.98	3	Vertical	185	2.91	-
2437MHz	Pass	AV	4.87394G	38.65	54.00	-15.35	3.69	3	Horizontal	67	1.22	-
2437MHz	Pass	PK	4.87388G	47.08	74.00	-26.92	3.69	3	Horizontal	67	1.22	-
2462MHz	Pass	AV	2.4632G	112.65	Inf	-Inf	32.23	3	Vertical	114	1.50	-
2462MHz	Pass	AV	2.4858G	52.99	54.00	-1.01	32.30	3	Vertical	114	1.50	-
2462MHz	Pass	PK	2.463G	116.39	Inf	-Inf	32.23	3	Vertical	114	1.50	-
2462MHz	Pass	PK	2.484G	64.96	74.00	-9.04	32.29	3	Vertical	114	1.50	-
2462MHz	Pass	AV	4.92394G	51.11	54.00	-2.89	3.80	3	Vertical	106	2.99	-
2462MHz	Pass	AV	7.38414G	46.56	54.00	-7.44	9.08	3	Vertical	316	2.38	-
2462MHz	Pass	PK	4.92394G	54.97	74.00	-19.03	3.80	3	Vertical	106	2.99	-
2462MHz	Pass	PK	7.3845G	54.67	74.00	-19.33	9.08	3	Vertical	316	2.38	-
2462MHz	Pass	AV	4.92694G	39.18	54.00	-14.82	3.81	3	Horizontal	3	1.11	-
2462MHz	Pass	PK	4.924G	48.91	74.00	-25.09	3.80	3	Horizontal	3	1.11	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	52.23	54.00	-1.77	32.01	3	Vertical	143	1.50	-
2412MHz	Pass	AV	2.415G	103.11	Inf	-Inf	32.09	3	Vertical	143	1.50	-
2412MHz	Pass	PK	2.3898G	68.35	74.00	-5.65	32.01	3	Vertical	143	1.50	-
2412MHz	Pass	PK	2.415G	113.74	Inf	-Inf	32.09	3	Vertical	143	1.50	-
2412MHz	Pass	AV	4.81098G	31.59	54.00	-22.41	3.55	3	Vertical	89	1.29	-
2412MHz	Pass	PK	4.82586G	45.70	74.00	-28.30	3.59	3	Vertical	89	1.29	-
2412MHz	Pass	AV	4.81446G	31.61	54.00	-22.39	3.57	3	Horizontal	296	1.86	-
2412MHz	Pass	PK	4.81644G	45.50	74.00	-28.50	3.57	3	Horizontal	296	1.86	-
2417MHz	Pass	AV	2.39G	53.83	54.00	-0.17	32.01	3	Vertical	141	1.50	-
2417MHz	Pass	AV	2.4198G	103.91	Inf	-Inf	32.10	3	Vertical	141	1.50	-
2417MHz	Pass	PK	2.3892G	70.24	74.00	-3.76	32.00	3	Vertical	141	1.50	-
2417MHz	Pass	PK	2.4202G	114.28	Inf	-Inf	32.10	3	Vertical	141	1.50	-

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	2.3898G	53.08	54.00	-0.92	32.01	3	Vertical	234	1.50	-
2422MHz	Pass	AV	2.4244G	105.07	Inf	-Inf	32.11	3	Vertical	234	1.50	-
2422MHz	Pass	PK	2.3888G	71.12	74.00	-2.88	32.00	3	Vertical	234	1.50	-
2422MHz	Pass	PK	2.4288G	115.27	Inf	-Inf	32.13	3	Vertical	234	1.50	-
2427MHz	Pass	AV	2.389G	53.85	54.00	-0.15	32.00	3	Vertical	248	1.50	-
2427MHz	Pass	AV	2.4334G	107.11	Inf	-Inf	32.14	3	Vertical	248	1.50	-
2427MHz	Pass	AV	2.4838G	47.31	54.00	-6.69	32.29	3	Vertical	248	1.50	-
2427MHz	Pass	PK	2.3894G	71.25	74.00	-2.75	32.00	3	Vertical	248	1.50	-
2427MHz	Pass	PK	2.4286G	117.45	Inf	-Inf	32.13	3	Vertical	248	1.50	-
2427MHz	Pass	PK	2.4886G	61.03	74.00	-12.97	32.30	3	Vertical	248	1.50	-
2432MHz	Pass	AV	2.3892G	53.74	54.00	-0.26	32.00	3	Vertical	241	1.50	-
2432MHz	Pass	AV	2.4388G	106.85	Inf	-Inf	32.15	3	Vertical	241	1.50	-
2432MHz	Pass	AV	2.484G	49.25	54.00	-4.75	32.29	3	Vertical	241	1.50	-
2432MHz	Pass	PK	2.3896G	72.53	74.00	-1.47	32.01	3	Vertical	241	1.50	-
2432MHz	Pass	PK	2.4292G	117.64	Inf	-Inf	32.13	3	Vertical	241	1.50	-
2432MHz	Pass	PK	2.4835G	66.08	74.00	-7.92	32.29	3	Vertical	241	1.50	-
2437MHz	Pass	AV	2.3898G	53.44	54.00	-0.56	32.01	3	Vertical	141	1.50	-
2437MHz	Pass	AV	2.4398G	107.88	Inf	-Inf	32.16	3	Vertical	141	1.50	-
2437MHz	Pass	AV	2.4846G	52.09	54.00	-1.91	32.29	3	Vertical	141	1.50	-
2437MHz	Pass	PK	2.3898G	70.79	74.00	-3.21	32.01	3	Vertical	141	1.50	-
2437MHz	Pass	PK	2.4398G	118.14	Inf	-Inf	32.16	3	Vertical	141	1.50	-
2437MHz	Pass	PK	2.4846G	68.07	74.00	-5.93	32.29	3	Vertical	141	1.50	-
2437MHz	Pass	AV	4.8747G	43.71	54.00	-10.29	3.69	3	Vertical	338	1.05	-
2437MHz	Pass	PK	4.8742G	58.93	74.00	-15.07	3.69	3	Vertical	338	1.05	-
2437MHz	Pass	AV	4.87958G	38.10	54.00	-15.90	3.70	3	Horizontal	44	1.80	-
2437MHz	Pass	PK	4.87538G	53.65	74.00	-20.35	3.70	3	Horizontal	44	1.80	-
2442MHz	Pass	AV	2.39G	49.49	54.00	-4.51	32.01	3	Vertical	142	1.50	-
2442MHz	Pass	AV	2.4448G	107.36	Inf	-Inf	32.18	3	Vertical	142	1.50	-
2442MHz	Pass	AV	2.4844G	53.13	54.00	-0.87	32.29	3	Vertical	142	1.50	-
2442MHz	Pass	PK	2.3892G	66.75	74.00	-7.25	32.00	3	Vertical	142	1.50	-
2442MHz	Pass	PK	2.4448G	117.62	Inf	-Inf	32.18	3	Vertical	142	1.50	-
2442MHz	Pass	PK	2.49G	70.96	74.00	-3.04	32.31	3	Vertical	142	1.50	-
2447MHz	Pass	AV	2.3886G	46.35	54.00	-7.65	32.00	3	Vertical	56	1.50	-
2447MHz	Pass	AV	2.4534G	106.74	Inf	-Inf	32.20	3	Vertical	56	1.50	-
2447MHz	Pass	AV	2.4835G	53.42	54.00	-0.58	32.29	3	Vertical	56	1.50	-
2447MHz	Pass	PK	2.389G	59.27	74.00	-14.73	32.00	3	Vertical	56	1.50	-
2447MHz	Pass	PK	2.4538G	117.07	Inf	-Inf	32.20	3	Vertical	56	1.50	-
2447MHz	Pass	PK	2.4842G	68.29	74.00	-5.71	32.29	3	Vertical	56	1.50	-
2452MHz	Pass	AV	2.4584G	105.39	Inf	-Inf	32.22	3	Vertical	186	1.50	-
2452MHz	Pass	AV	2.4835G	53.76	54.00	-0.24	32.29	3	Vertical	186	1.50	-
2452MHz	Pass	PK	2.4582G	115.80	Inf	-Inf	32.21	3	Vertical	186	1.50	-
2452MHz	Pass	PK	2.4836G	69.76	74.00	-4.24	32.29	3	Vertical	186	1.50	-
2457MHz	Pass	AV	2.4632G	104.61	Inf	-Inf	32.23	3	Vertical	122	1.50	-
2457MHz	Pass	AV	2.4835G	52.45	54.00	-1.55	32.29	3	Vertical	122	1.50	-
2457MHz	Pass	PK	2.463G	114.69	Inf	-Inf	32.23	3	Vertical	122	1.50	-
2457MHz	Pass	PK	2.4838G	67.90	74.00	-6.10	32.29	3	Vertical	122	1.50	-
2462MHz	Pass	AV	2.469G	102.30	Inf	-Inf	32.25	3	Vertical	12	1.50	-
2462MHz	Pass	AV	2.484G	52.17	54.00	-1.83	32.29	3	Vertical	12	1.50	-
2462MHz	Pass	PK	2.4688G	113.23	Inf	-Inf	32.25	3	Vertical	12	1.50	-

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	2.4848G	67.05	74.00	-6.95	32.29	3	Vertical	12	1.50	-
2462MHz	Pass	AV	4.9366G	32.42	54.00	-21.58	3.83	3	Vertical	241	2.23	-
2462MHz	Pass	PK	4.93228G	45.74	74.00	-28.26	3.82	3	Vertical	241	2.23	-
2462MHz	Pass	AV	4.9366G	32.43	54.00	-21.57	3.83	3	Horizontal	50	1.86	-
2462MHz	Pass	PK	4.9261G	46.46	74.00	-27.54	3.81	3	Horizontal	50	1.86	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	53.69	54.00	-0.31	32.01	3	Vertical	186	1.50	-
2412MHz	Pass	AV	2.4076G	102.72	Inf	-Inf	32.06	3	Vertical	186	1.50	-
2412MHz	Pass	PK	2.3862G	69.31	74.00	-4.69	32.00	3	Vertical	186	1.50	-
2412MHz	Pass	PK	2.407G	113.50	Inf	-Inf	32.06	3	Vertical	186	1.50	-
2412MHz	Pass	AV	4.80906G	31.11	54.00	-22.89	3.55	3	Vertical	289	2.18	-
2412MHz	Pass	PK	4.82856G	45.54	74.00	-28.46	3.59	3	Vertical	289	2.18	-
2412MHz	Pass	AV	4.80918G	31.58	54.00	-22.42	3.55	3	Horizontal	137	1.13	-
2412MHz	Pass	PK	4.82682G	45.02	74.00	-28.98	3.59	3	Horizontal	137	1.13	-
2417MHz	Pass	AV	2.39G	53.48	54.00	-0.52	32.01	3	Vertical	248	1.50	-
2417MHz	Pass	AV	2.415G	102.34	Inf	-Inf	32.09	3	Vertical	248	1.50	-
2417MHz	Pass	PK	2.3898G	67.88	74.00	-6.12	32.01	3	Vertical	248	1.50	-
2417MHz	Pass	PK	2.415G	113.11	Inf	-Inf	32.09	3	Vertical	248	1.50	-
2422MHz	Pass	AV	2.3896G	53.44	54.00	-0.56	32.01	3	Vertical	47	1.50	-
2422MHz	Pass	AV	2.427G	104.49	Inf	-Inf	32.12	3	Vertical	47	1.50	-
2422MHz	Pass	PK	2.389G	70.36	74.00	-3.64	32.00	3	Vertical	47	1.50	-
2422MHz	Pass	PK	2.4256G	114.72	Inf	-Inf	32.12	3	Vertical	47	1.50	-
2427MHz	Pass	AV	2.389G	53.57	54.00	-0.43	32.00	3	Vertical	248	1.50	-
2427MHz	Pass	AV	2.4286G	106.34	Inf	-Inf	32.13	3	Vertical	248	1.50	-
2427MHz	Pass	AV	2.4835G	47.11	54.00	-6.89	32.29	3	Vertical	248	1.50	-
2427MHz	Pass	PK	2.3886G	70.15	74.00	-3.85	32.00	3	Vertical	248	1.50	-
2427MHz	Pass	PK	2.4338G	116.72	Inf	-Inf	32.14	3	Vertical	248	1.50	-
2427MHz	Pass	PK	2.491G	59.68	74.00	-14.32	32.31	3	Vertical	248	1.50	-
2432MHz	Pass	AV	2.39G	53.40	54.00	-0.60	32.01	3	Vertical	249	1.50	-
2432MHz	Pass	AV	2.4292G	106.51	Inf	-Inf	32.13	3	Vertical	249	1.50	-
2432MHz	Pass	AV	2.4856G	47.69	54.00	-6.31	32.30	3	Vertical	249	1.50	-
2432MHz	Pass	PK	2.39G	69.54	74.00	-4.46	32.01	3	Vertical	249	1.50	-
2432MHz	Pass	PK	2.4288G	116.62	Inf	-Inf	32.13	3	Vertical	249	1.50	-
2432MHz	Pass	PK	2.4848G	60.76	74.00	-13.24	32.29	3	Vertical	249	1.50	-
2437MHz	Pass	AV	2.3898G	53.37	54.00	-0.63	32.01	3	Vertical	53	1.50	-
2437MHz	Pass	AV	2.4334G	106.79	Inf	-Inf	32.14	3	Vertical	53	1.50	-
2437MHz	Pass	AV	2.4902G	49.36	54.00	-4.64	32.31	3	Vertical	53	1.50	-
2437MHz	Pass	PK	2.3882G	70.21	74.00	-3.79	32.00	3	Vertical	53	1.50	-
2437MHz	Pass	PK	2.431G	117.01	Inf	-Inf	32.13	3	Vertical	53	1.50	-
2437MHz	Pass	PK	2.4906G	65.04	74.00	-8.96	32.31	3	Vertical	53	1.50	-
2437MHz	Pass	AV	4.8756G	43.14	54.00	-10.86	3.70	3	Vertical	15	2.96	-
2437MHz	Pass	PK	4.8772G	58.07	74.00	-15.93	3.70	3	Vertical	15	2.96	-
2437MHz	Pass	AV	4.88114G	37.09	54.00	-16.91	3.71	3	Horizontal	48	2.24	-
2437MHz	Pass	PK	4.87778G	52.48	74.00	-21.52	3.70	3	Horizontal	48	2.24	-
2442MHz	Pass	AV	2.39G	50.50	54.00	-3.50	32.01	3	Vertical	305	1.49	-
2442MHz	Pass	AV	2.4488G	106.93	Inf	-Inf	32.19	3	Vertical	305	1.49	-
2442MHz	Pass	AV	2.4848G	53.21	54.00	-0.79	32.29	3	Vertical	305	1.49	-
2442MHz	Pass	PK	2.39G	68.12	74.00	-5.88	32.01	3	Vertical	305	1.49	-
2442MHz	Pass	PK	2.4492G	116.74	Inf	-Inf	32.19	3	Vertical	305	1.49	-

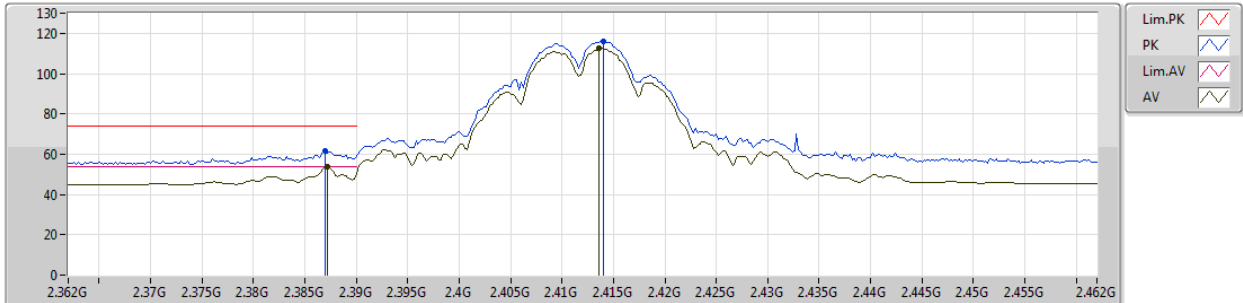
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2442MHz	Pass	PK	2.484G	69.69	74.00	-4.31	32.29	3	Vertical	305	1.49	-
2447MHz	Pass	AV	2.3846G	45.92	54.00	-8.08	31.98	3	Vertical	51	1.50	-
2447MHz	Pass	AV	2.4422G	105.74	Inf	-Inf	32.17	3	Vertical	51	1.50	-
2447MHz	Pass	AV	2.4835G	52.88	54.00	-1.12	32.29	3	Vertical	51	1.50	-
2447MHz	Pass	PK	2.3838G	58.81	74.00	-15.19	31.98	3	Vertical	51	1.50	-
2447MHz	Pass	PK	2.4426G	115.70	Inf	-Inf	32.17	3	Vertical	51	1.50	-
2447MHz	Pass	PK	2.4842G	66.84	74.00	-7.16	32.29	3	Vertical	51	1.50	-
2452MHz	Pass	AV	2.449G	103.86	Inf	-Inf	32.19	3	Vertical	185	1.50	-
2452MHz	Pass	AV	2.4846G	52.90	54.00	-1.10	32.29	3	Vertical	185	1.50	-
2452MHz	Pass	PK	2.4488G	114.49	Inf	-Inf	32.19	3	Vertical	185	1.50	-
2452MHz	Pass	PK	2.4858G	70.78	74.00	-3.22	32.30	3	Vertical	185	1.50	-
2457MHz	Pass	AV	2.4616G	103.99	Inf	-Inf	32.23	3	Vertical	121	1.50	-
2457MHz	Pass	AV	2.4835G	53.00	54.00	-1.00	32.29	3	Vertical	121	1.50	-
2457MHz	Pass	PK	2.4616G	114.46	Inf	-Inf	32.23	3	Vertical	121	1.50	-
2457MHz	Pass	PK	2.4838G	67.87	74.00	-6.13	32.29	3	Vertical	121	1.50	-
2462MHz	Pass	AV	2.4666G	102.99	Inf	-Inf	32.24	3	Vertical	116	1.50	-
2462MHz	Pass	AV	2.4835G	53.31	54.00	-0.69	32.29	3	Vertical	116	1.50	-
2462MHz	Pass	PK	2.4658G	113.11	Inf	-Inf	32.24	3	Vertical	116	1.50	-
2462MHz	Pass	PK	2.4836G	68.44	74.00	-5.56	32.29	3	Vertical	116	1.50	-
2462MHz	Pass	AV	4.8102G	31.55	54.00	-22.45	3.55	3	Vertical	173	1.38	-
2462MHz	Pass	PK	4.80996G	45.57	74.00	-28.43	3.55	3	Vertical	173	1.38	-
2462MHz	Pass	AV	4.83762G	31.62	54.00	-22.38	3.62	3	Horizontal	162	2.03	-
2462MHz	Pass	PK	4.82694G	45.41	74.00	-28.59	3.59	3	Horizontal	162	2.03	-
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.3852G	53.39	54.00	-0.61	31.99	3	Vertical	23	1.50	-
2422MHz	Pass	AV	2.424G	97.54	Inf	-Inf	32.11	3	Vertical	23	1.50	-
2422MHz	Pass	AV	2.4835G	45.71	54.00	-8.29	32.29	3	Vertical	23	1.50	-
2422MHz	Pass	PK	2.3856G	70.25	74.00	-3.75	32.00	3	Vertical	23	1.50	-
2422MHz	Pass	PK	2.4244G	109.19	Inf	-Inf	32.11	3	Vertical	23	1.50	-
2422MHz	Pass	PK	2.4916G	57.91	74.00	-16.09	32.31	3	Vertical	23	1.50	-
2422MHz	Pass	AV	4.859G	33.68	54.00	-20.32	3.66	3	Vertical	248	1.29	-
2422MHz	Pass	PK	4.85006G	46.60	74.00	-27.40	3.64	3	Vertical	248	1.29	-
2422MHz	Pass	AV	4.859G	33.77	54.00	-20.23	3.66	3	Horizontal	320	1.76	-
2422MHz	Pass	PK	4.85864G	47.29	74.00	-26.71	3.66	3	Horizontal	320	1.76	-
2427MHz	Pass	AV	2.3898G	53.71	54.00	-0.29	32.01	3	Vertical	22	1.50	-
2427MHz	Pass	AV	2.4282G	98.20	Inf	-Inf	32.13	3	Vertical	22	1.50	-
2427MHz	Pass	AV	2.4842G	46.21	54.00	-7.79	32.29	3	Vertical	22	1.50	-
2427MHz	Pass	PK	2.389G	68.98	74.00	-5.02	32.00	3	Vertical	22	1.50	-
2427MHz	Pass	PK	2.4254G	109.41	Inf	-Inf	32.12	3	Vertical	22	1.50	-
2427MHz	Pass	PK	2.4842G	58.72	74.00	-15.28	32.29	3	Vertical	22	1.50	-
2432MHz	Pass	AV	2.39G	52.99	54.00	-1.01	32.01	3	Vertical	246	1.50	-
2432MHz	Pass	AV	2.4296G	99.10	Inf	-Inf	32.13	3	Vertical	246	1.50	-
2432MHz	Pass	AV	2.4835G	48.20	54.00	-5.80	32.29	3	Vertical	246	1.50	-
2432MHz	Pass	PK	2.388G	68.22	74.00	-5.78	32.00	3	Vertical	246	1.50	-
2432MHz	Pass	PK	2.4284G	111.20	Inf	-Inf	32.13	3	Vertical	246	1.50	-
2432MHz	Pass	PK	2.4864G	62.62	74.00	-11.38	32.30	3	Vertical	246	1.50	-
2437MHz	Pass	AV	2.3898G	53.83	54.00	-0.17	32.01	3	Vertical	143	1.50	-
2437MHz	Pass	AV	2.4478G	100.25	Inf	-Inf	32.18	3	Vertical	143	1.50	-
2437MHz	Pass	AV	2.485G	52.00	54.00	-2.00	32.29	3	Vertical	143	1.50	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	2.389G	68.75	74.00	-5.25	32.00	3	Vertical	143	1.50	-
2437MHz	Pass	PK	2.4478G	111.43	Inf	-Inf	32.18	3	Vertical	143	1.50	-
2437MHz	Pass	PK	2.487G	69.36	74.00	-4.64	32.30	3	Vertical	143	1.50	-
2437MHz	Pass	AV	4.8745G	33.94	54.00	-20.06	3.69	3	Vertical	251	1.12	-
2437MHz	Pass	PK	4.8759G	47.72	74.00	-26.28	3.70	3	Vertical	251	1.12	-
2437MHz	Pass	AV	4.8744G	33.35	54.00	-20.65	3.69	3	Horizontal	345	1.57	-
2437MHz	Pass	PK	4.8794G	46.87	74.00	-27.13	3.70	3	Horizontal	345	1.57	-
2442MHz	Pass	AV	2.3872G	47.18	54.00	-6.82	32.00	3	Vertical	143	1.49	-
2442MHz	Pass	AV	2.444G	98.33	Inf	-Inf	32.18	3	Vertical	143	1.49	-
2442MHz	Pass	AV	2.4835G	53.26	54.00	-0.74	32.29	3	Vertical	143	1.49	-
2442MHz	Pass	PK	2.386G	63.25	74.00	-10.75	32.00	3	Vertical	143	1.49	-
2442MHz	Pass	PK	2.4448G	109.88	Inf	-Inf	32.18	3	Vertical	143	1.49	-
2442MHz	Pass	PK	2.4848G	73.28	74.00	-0.72	32.29	3	Vertical	143	1.49	-
2447MHz	Pass	AV	2.3874G	46.35	54.00	-7.65	32.00	3	Vertical	60	1.50	-
2447MHz	Pass	AV	2.445G	97.48	Inf	-Inf	32.18	3	Vertical	60	1.50	-
2447MHz	Pass	AV	2.4838G	53.09	54.00	-0.91	32.29	3	Vertical	60	1.50	-
2447MHz	Pass	PK	2.3874G	62.90	74.00	-11.10	32.00	3	Vertical	60	1.50	-
2447MHz	Pass	PK	2.443G	109.15	Inf	-Inf	32.17	3	Vertical	60	1.50	-
2447MHz	Pass	PK	2.485G	72.28	74.00	-1.72	32.29	3	Vertical	60	1.50	-
2452MHz	Pass	AV	2.3848G	45.32	54.00	-8.68	31.98	3	Vertical	7	1.50	-
2452MHz	Pass	AV	2.4608G	97.56	Inf	-Inf	32.23	3	Vertical	7	1.50	-
2452MHz	Pass	AV	2.4835G	52.65	54.00	-1.35	32.29	3	Vertical	7	1.50	-
2452MHz	Pass	PK	2.3852G	58.60	74.00	-15.40	31.99	3	Vertical	7	1.50	-
2452MHz	Pass	PK	2.4436G	108.55	Inf	-Inf	32.17	3	Vertical	7	1.50	-
2452MHz	Pass	PK	2.4844G	73.45	74.00	-0.55	32.29	3	Vertical	7	1.50	-
2452MHz	Pass	AV	4.91798G	32.32	54.00	-21.68	3.79	3	Vertical	187	1.12	-
2452MHz	Pass	PK	4.90634G	45.99	74.00	-28.01	3.76	3	Vertical	187	1.12	-
2452MHz	Pass	AV	4.89512G	32.17	54.00	-21.83	3.74	3	Horizontal	15	1.49	-
2452MHz	Pass	PK	4.88972G	48.70	74.00	-25.30	3.73	3	Horizontal	15	1.49	-

802.11b_Nss1,(1Mbps)_2TX

29/12/2018

2412MHz_TX

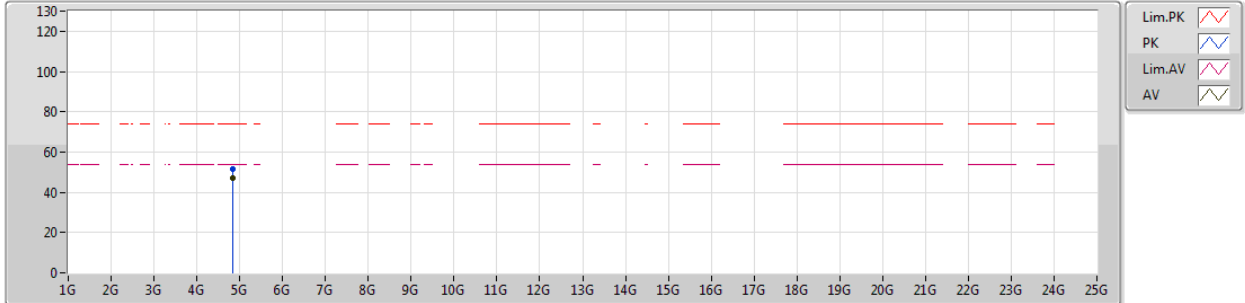


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3872G	53.61	54.00	-0.39	32.00	3	Vertical	142	1.50	-
AV	2.4136G	112.47	Inf	-Inf	32.08	3	Vertical	142	1.50	-
PK	2.387G	61.63	74.00	-12.37	32.00	3	Vertical	142	1.50	-
PK	2.414G	115.92	Inf	-Inf	32.08	3	Vertical	142	1.50	-

802.11b_Nss1,(1Mbps)_2TX

29/12/2018

2412MHz_TX

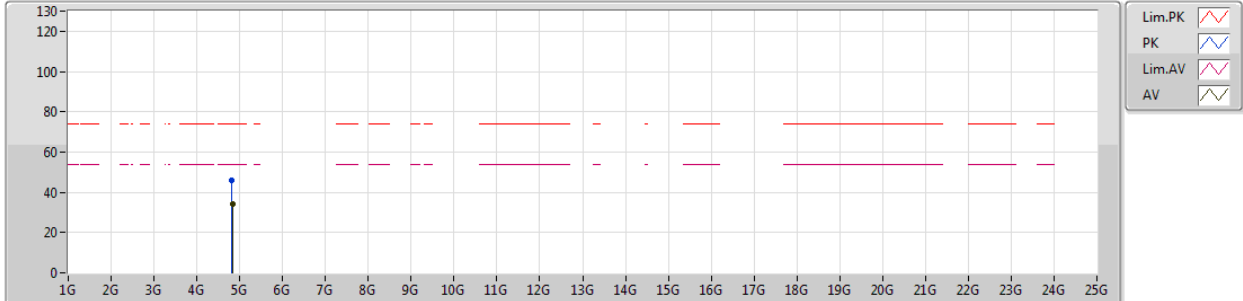


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments								
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)									
AV	4.82694G	46.83	54.00	-7.17	3.59	3	Vertical	194	2.91	-								
PK	4.827G	51.50	74.00	-22.50	3.59	3	Vertical	194	2.91	-								

802.11b_Nss1,(1Mbps)_2TX

29/12/2018

2412MHz_TX

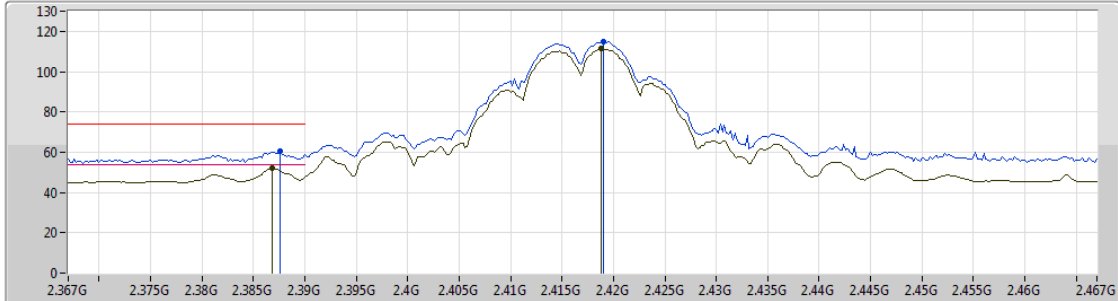


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.827G	34.16	54.00	-19.84	3.59	3	Horizontal	291	1.50	-
PK	4.821G	45.84	74.00	-28.16	3.58	3	Horizontal	291	1.50	-

802.11b_Nss1,(1Mbps)_2TX

29/12/2018

2417MHz_TX

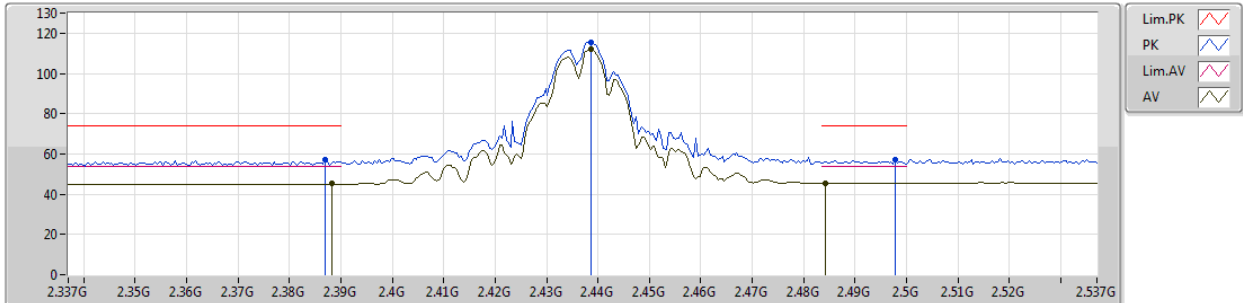


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	2.3868G	51.88	54.00	-2.12	32.00	3	Vertical	143	1.50	-								
AV	2.4188G	111.31	Inf	-Inf	32.10	3	Vertical	143	1.50	-								
PK	2.3876G	60.38	74.00	-13.62	32.00	3	Vertical	143	1.50	-								
PK	2.419G	114.83	Inf	-Inf	32.10	3	Vertical	143	1.50	-								

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

29/12/2018

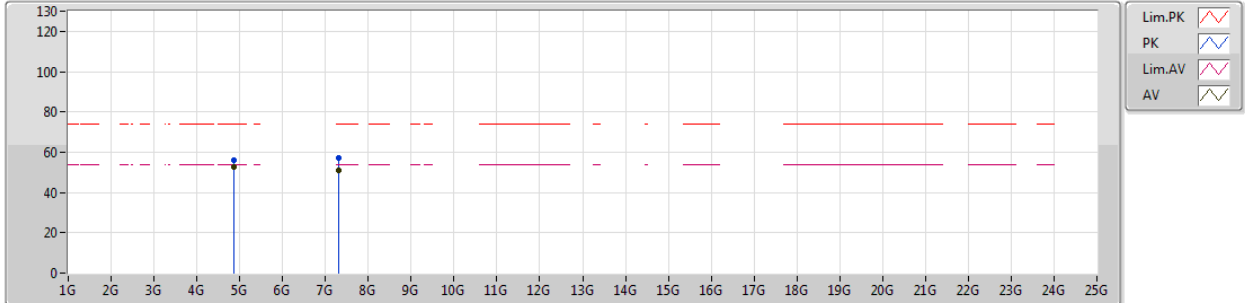


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3882G	45.15	54.00	-8.85	32.00	3	Vertical	334	1.50	-
AV	2.4386G	112.23	Inf	-Inf	32.15	3	Vertical	334	1.50	-
AV	2.4842G	45.51	54.00	-8.49	32.29	3	Vertical	334	1.50	-
PK	2.387G	57.34	74.00	-16.66	32.00	3	Vertical	334	1.50	-
PK	2.4386G	115.57	Inf	-Inf	32.15	3	Vertical	334	1.50	-
PK	2.4978G	57.23	74.00	-16.77	32.33	3	Vertical	334	1.50	-

802.11b_Nss1,(1Mbps)_2TX

29/12/2018

2437MHz_TX

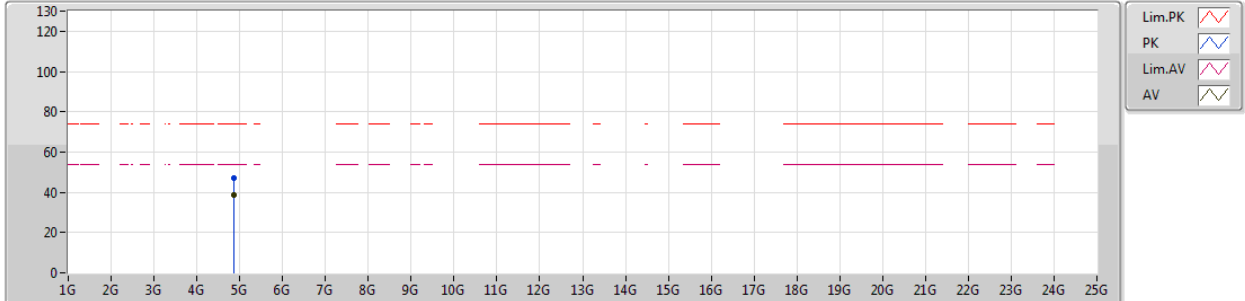


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	4.87394G	52.51	54.00	-1.49	3.69	3	Vertical	16	2.93	-								
AV	7.3122G	50.74	54.00	-3.26	8.98	3	Vertical	185	2.91	-								
PK	4.87394G	55.76	74.00	-18.24	3.69	3	Vertical	16	2.93	-								
PK	7.31184G	57.32	74.00	-16.68	8.98	3	Vertical	185	2.91	-								

802.11b_Nss1,(1Mbps)_2TX

29/12/2018

2437MHz_TX

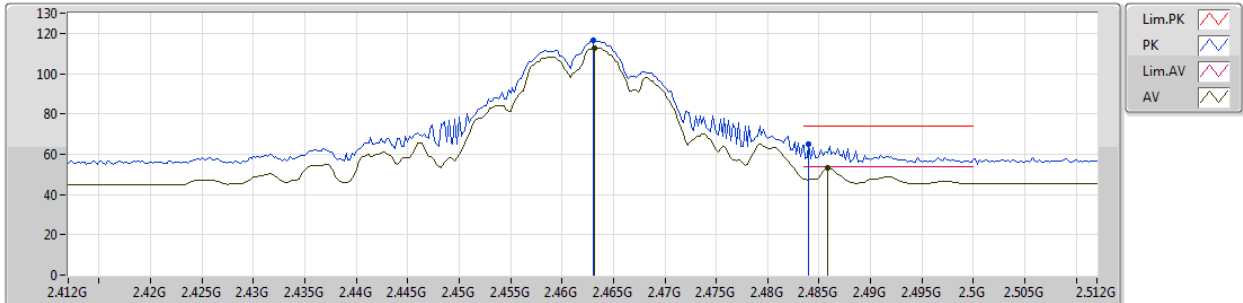


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments							
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)								
AV	4.87394G	38.65	54.00	-15.35	3.69	3	Horizontal	67	1.22	-							
PK	4.87388G	47.08	74.00	-26.92	3.69	3	Horizontal	67	1.22	-							

802.11b_Nss1,(1Mbps)_2TX

29/12/2018

2462MHz_TX

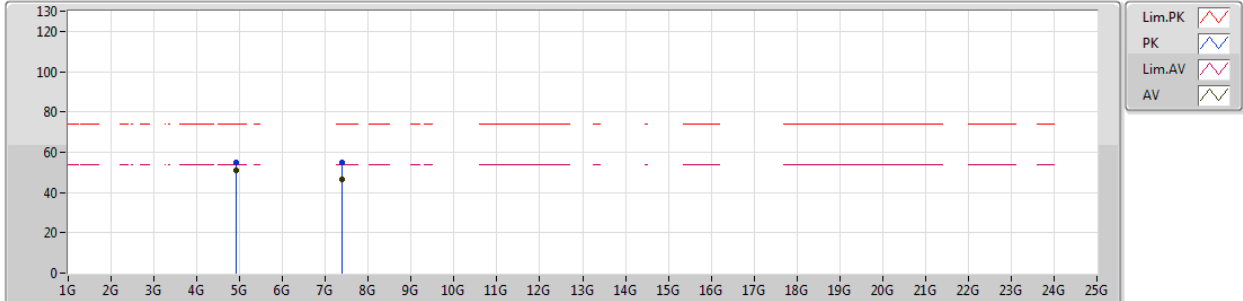


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4632G	112.65	Inf	-Inf	32.23	3	Vertical	114	1.50	-
AV	2.4858G	52.99	54.00	-1.01	32.30	3	Vertical	114	1.50	-
PK	2.463G	116.39	Inf	-Inf	32.23	3	Vertical	114	1.50	-
PK	2.484G	64.96	74.00	-9.04	32.29	3	Vertical	114	1.50	-

802.11b_Nss1,(1Mbps)_2TX

29/12/2018

2462MHz_TX

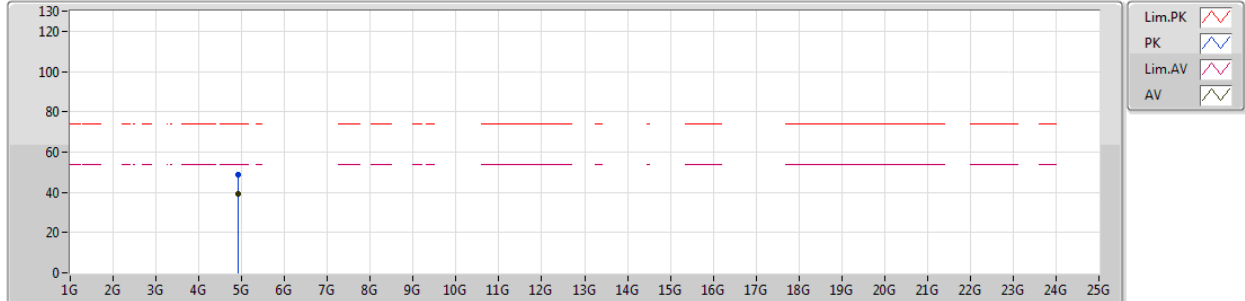


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92394G	51.11	54.00	-2.89	3.80	3	Vertical	106	2.99	-
AV	7.38414G	46.56	54.00	-7.44	9.08	3	Vertical	316	2.38	-
PK	4.92394G	54.97	74.00	-19.03	3.80	3	Vertical	106	2.99	-
PK	7.3845G	54.67	74.00	-19.33	9.08	3	Vertical	316	2.38	-

802.11b_Nss1,(1Mbps)_2TX

29/12/2018

2462MHz_TX

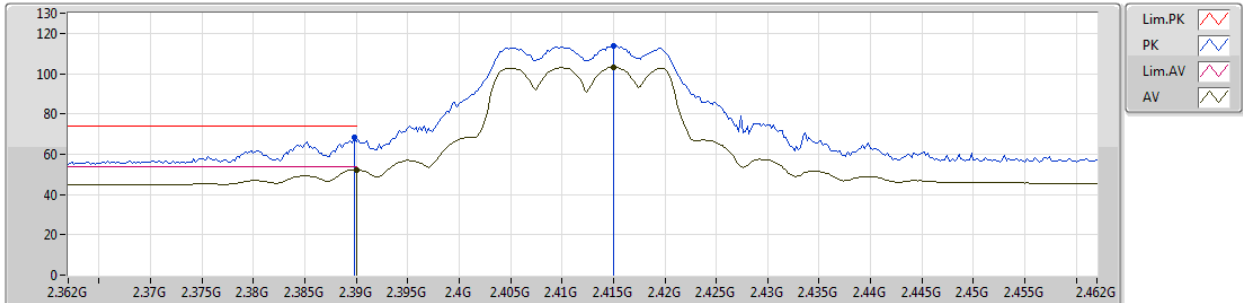


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92694G	39.18	54.00	-14.82	3.81	3	Horizontal	3	1.11	-
PK	4.924G	48.91	74.00	-25.09	3.80	3	Horizontal	3	1.11	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2412MHz_TX

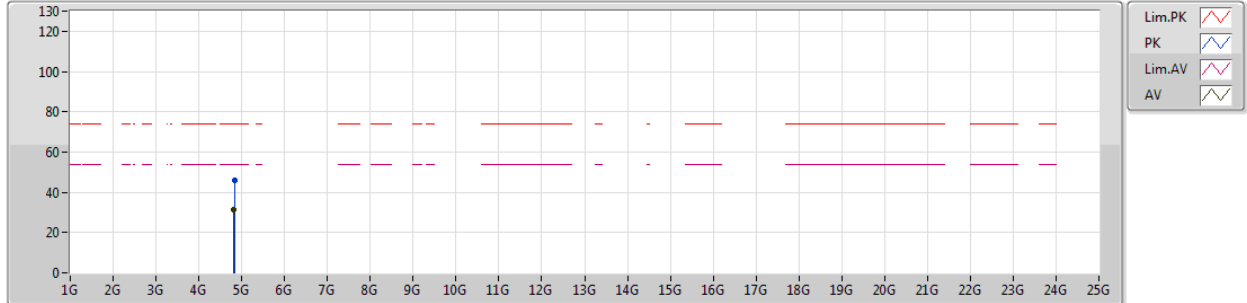


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	52.23	54.00	-1.77	32.01	3	Vertical	143	1.50	-
AV	2.415G	103.11	Inf	-Inf	32.09	3	Vertical	143	1.50	-
PK	2.3898G	68.35	74.00	-5.65	32.01	3	Vertical	143	1.50	-
PK	2.415G	113.74	Inf	-Inf	32.09	3	Vertical	143	1.50	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2412MHz_TX

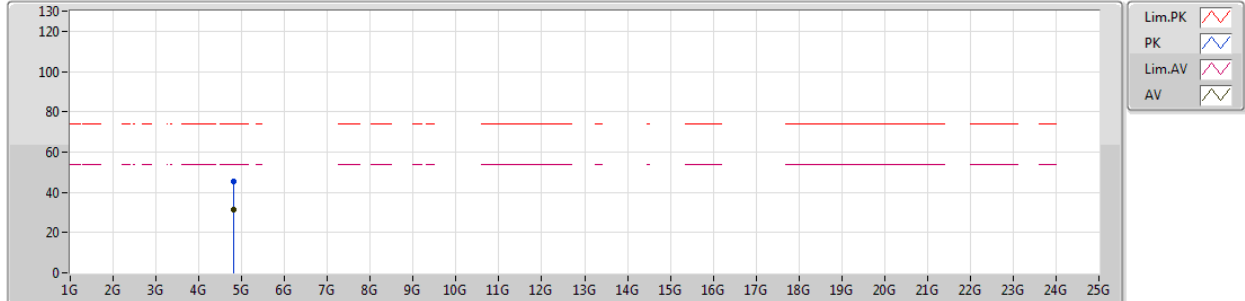


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.81098G	31.59	54.00	-22.41	3.55	3	Vertical	89	1.29	-
PK	4.82586G	45.70	74.00	-28.30	3.59	3	Vertical	89	1.29	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2412MHz_TX

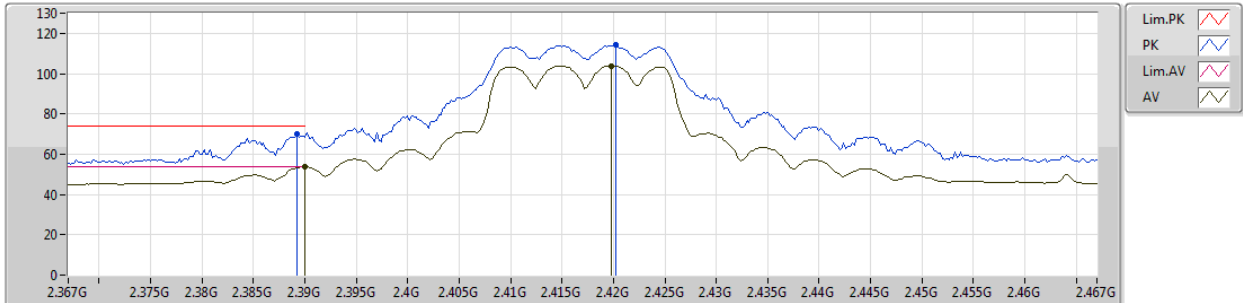


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.81446G	31.61	54.00	-22.39	3.57	3	Horizontal	296	1.86	-
PK	4.81644G	45.50	74.00	-28.50	3.57	3	Horizontal	296	1.86	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2417MHz_TX

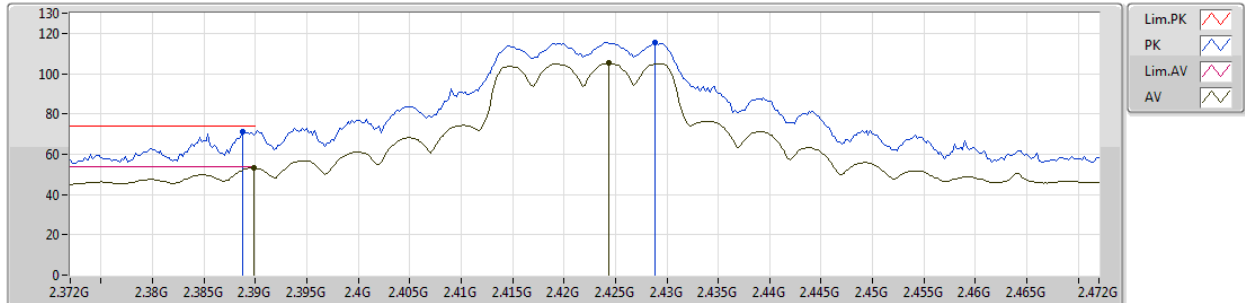


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	53.83	54.00	-0.17	32.01	3	Vertical	141	1.50	-
AV	2.4198G	103.91	Inf	-Inf	32.10	3	Vertical	141	1.50	-
PK	2.3892G	70.24	74.00	-3.76	32.00	3	Vertical	141	1.50	-
PK	2.4202G	114.28	Inf	-Inf	32.10	3	Vertical	141	1.50	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2422MHz_TX

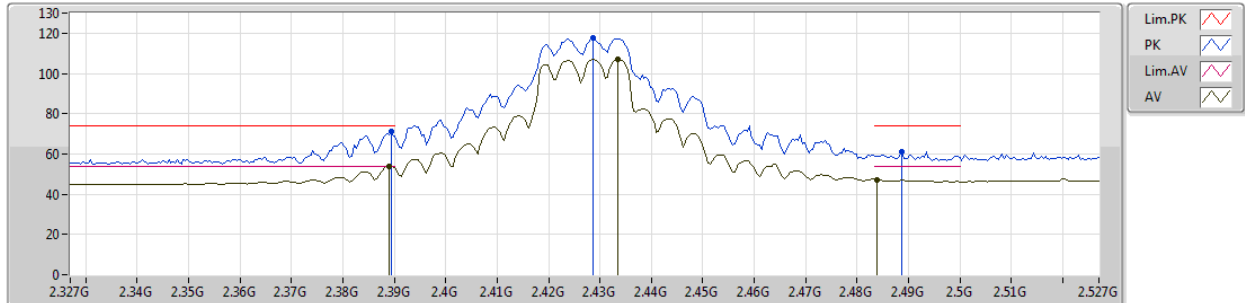


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	53.08	54.00	-0.92	32.01	3	Vertical	234	1.50	-
AV	2.4244G	105.07	Inf	-Inf	32.11	3	Vertical	234	1.50	-
PK	2.3888G	71.12	74.00	-2.88	32.00	3	Vertical	234	1.50	-
PK	2.4288G	115.27	Inf	-Inf	32.13	3	Vertical	234	1.50	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2427MHz_TX

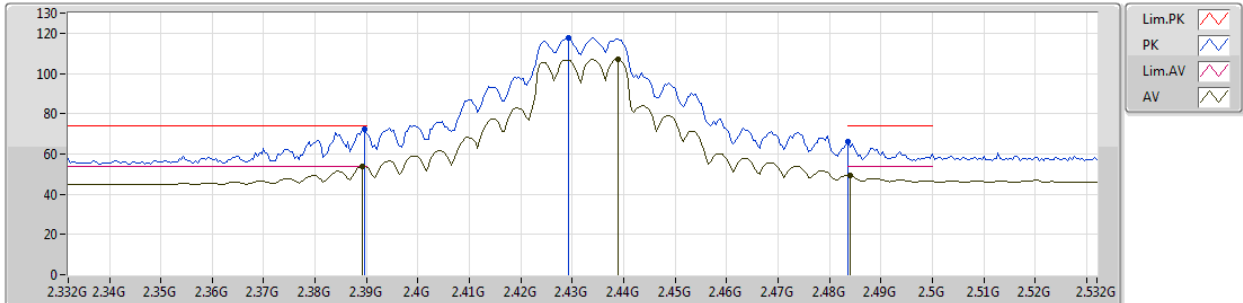


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389G	53.85	54.00	-0.15	32.00	3	Vertical	248	1.50	-
AV	2.4334G	107.11	Inf	-Inf	32.14	3	Vertical	248	1.50	-
AV	2.4838G	47.31	54.00	-6.69	32.29	3	Vertical	248	1.50	-
PK	2.3894G	71.25	74.00	-2.75	32.00	3	Vertical	248	1.50	-
PK	2.4286G	117.45	Inf	-Inf	32.13	3	Vertical	248	1.50	-
PK	2.4886G	61.03	74.00	-12.97	32.30	3	Vertical	248	1.50	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2432MHz_TX

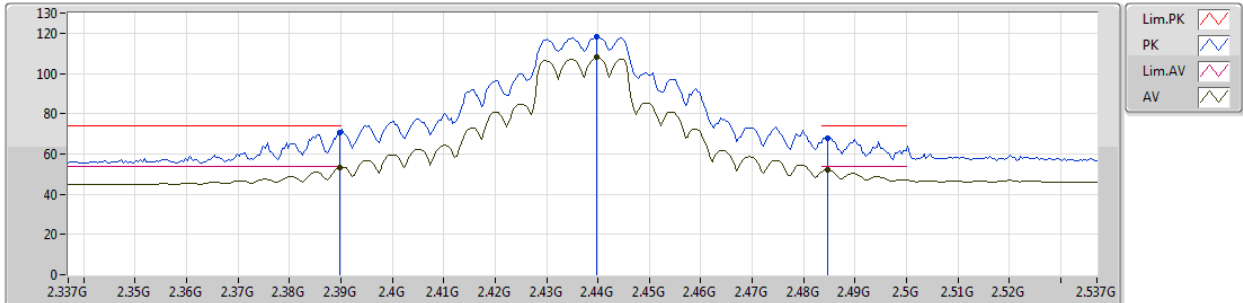


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3892G	53.74	54.00	-0.26	32.00	3	Vertical	241	1.50	-
AV	2.4388G	106.85	Inf	-Inf	32.15	3	Vertical	241	1.50	-
AV	2.484G	49.25	54.00	-4.75	32.29	3	Vertical	241	1.50	-
PK	2.3896G	72.53	74.00	-1.47	32.01	3	Vertical	241	1.50	-
PK	2.4292G	117.64	Inf	-Inf	32.13	3	Vertical	241	1.50	-
PK	2.4835G	66.08	74.00	-7.92	32.29	3	Vertical	241	1.50	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2437MHz_TX

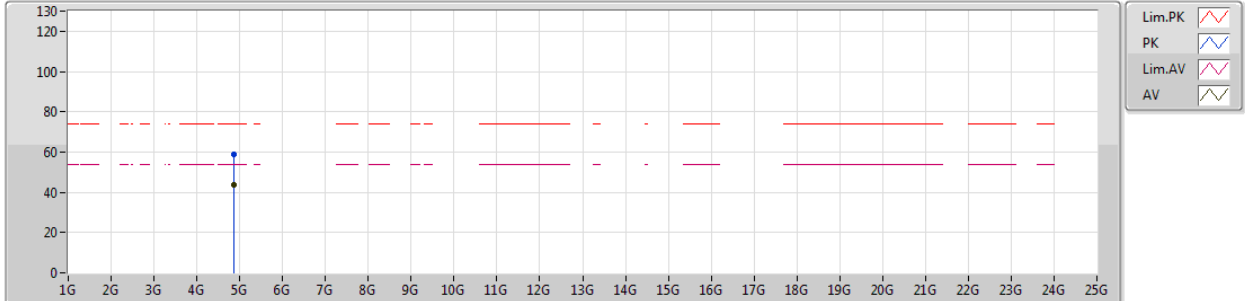


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	53.44	54.00	-0.56	32.01	3	Vertical	141	1.50	-
AV	2.4398G	107.88	Inf	-Inf	32.16	3	Vertical	141	1.50	-
AV	2.4846G	52.09	54.00	-1.91	32.29	3	Vertical	141	1.50	-
PK	2.3898G	70.79	74.00	-3.21	32.01	3	Vertical	141	1.50	-
PK	2.4398G	118.14	Inf	-Inf	32.16	3	Vertical	141	1.50	-
PK	2.4846G	68.07	74.00	-5.93	32.29	3	Vertical	141	1.50	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2437MHz_TX

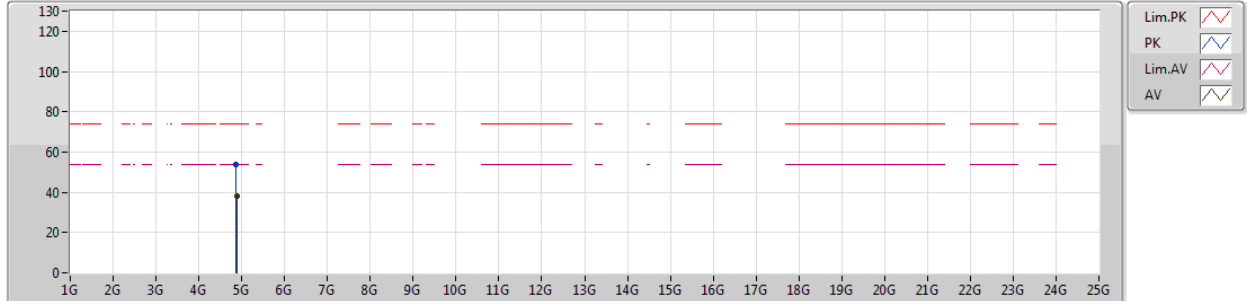


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8747G	43.71	54.00	-10.29	3.69	3	Vertical	338	1.05	-
PK	4.8742G	58.93	74.00	-15.07	3.69	3	Vertical	338	1.05	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2437MHz_TX

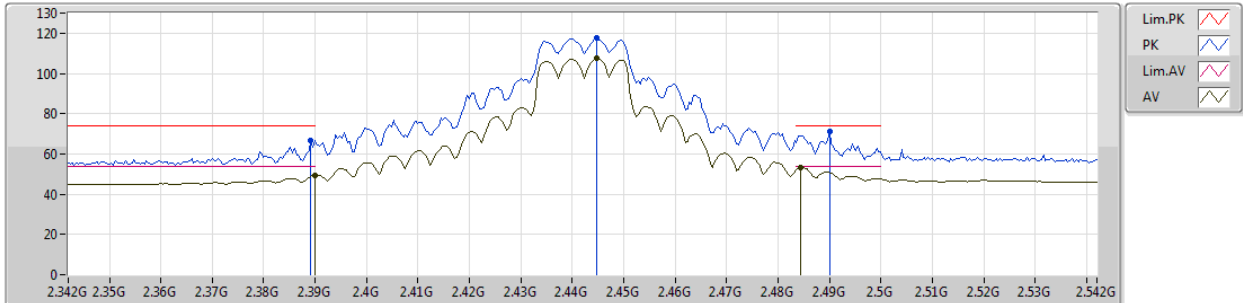


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87958G	38.10	54.00	-15.90	3.70	3	Horizontal	44	1.80	-
PK	4.87538G	53.65	74.00	-20.35	3.70	3	Horizontal	44	1.80	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2442MHz_TX

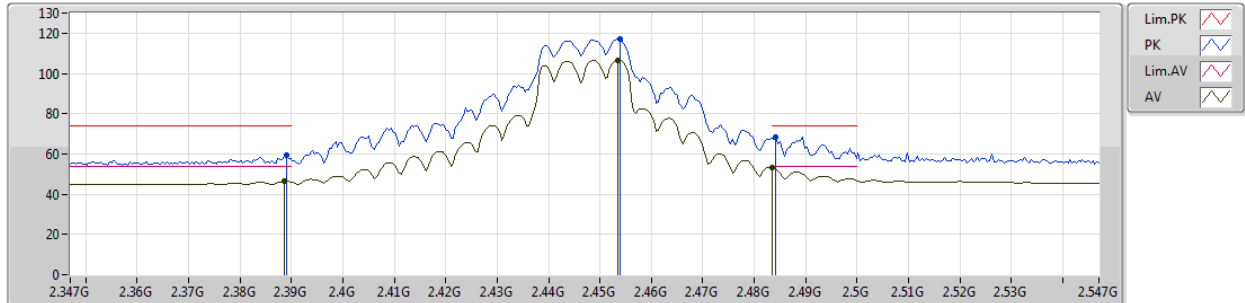


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	49.49	54.00	-4.51	32.01	3	Vertical	142	1.50	-
AV	2.4448G	107.36	Inf	-Inf	32.18	3	Vertical	142	1.50	-
AV	2.4844G	53.13	54.00	-0.87	32.29	3	Vertical	142	1.50	-
PK	2.3892G	66.75	74.00	-7.25	32.00	3	Vertical	142	1.50	-
PK	2.4448G	117.62	Inf	-Inf	32.18	3	Vertical	142	1.50	-
PK	2.49G	70.96	74.00	-3.04	32.31	3	Vertical	142	1.50	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2447MHz_TX

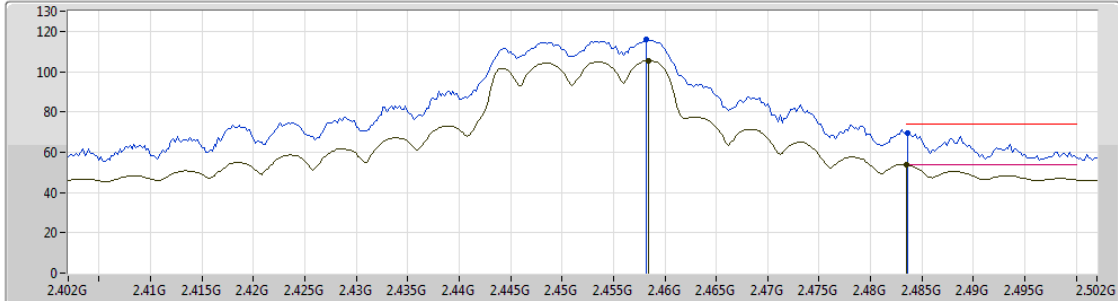


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3886G	46.35	54.00	-7.65	32.00	3	Vertical	56	1.50	-
AV	2.4534G	106.74	Inf	-Inf	32.20	3	Vertical	56	1.50	-
AV	2.4835G	53.42	54.00	-0.58	32.29	3	Vertical	56	1.50	-
PK	2.389G	59.27	74.00	-14.73	32.00	3	Vertical	56	1.50	-
PK	2.4538G	117.07	Inf	-Inf	32.20	3	Vertical	56	1.50	-
PK	2.4842G	68.29	74.00	-5.71	32.29	3	Vertical	56	1.50	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2452MHz_TX



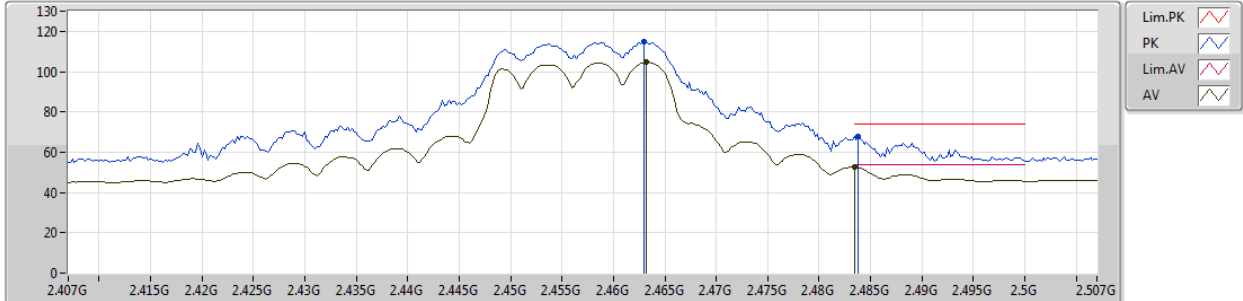
Lim.PK	
PK	
Lim.AV	
AV	

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4584G	105.39	Inf	-Inf	32.22	3	Vertical	186	1.50	-
AV	2.4835G	53.76	54.00	-0.24	32.29	3	Vertical	186	1.50	-
PK	2.4582G	115.80	Inf	-Inf	32.21	3	Vertical	186	1.50	-
PK	2.4836G	69.76	74.00	-4.24	32.29	3	Vertical	186	1.50	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2457MHz_TX

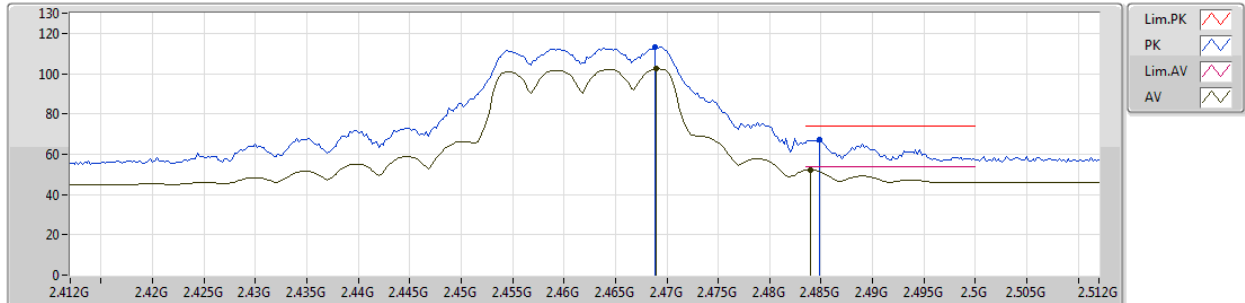


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4632G	104.61	Inf	-Inf	32.23	3	Vertical	122	1.50	-
AV	2.4835G	52.45	54.00	-1.55	32.29	3	Vertical	122	1.50	-
PK	2.463G	114.69	Inf	-Inf	32.23	3	Vertical	122	1.50	-
PK	2.4838G	67.90	74.00	-6.10	32.29	3	Vertical	122	1.50	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2462MHz_TX

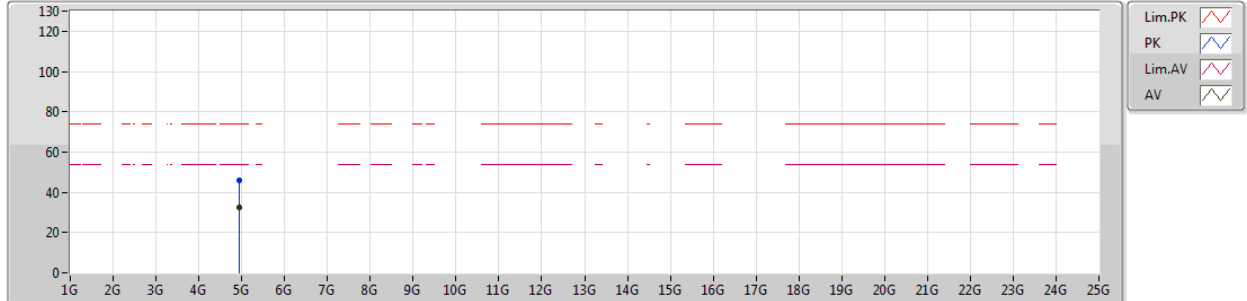


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.469G	102.30	Inf	-Inf	32.25	3	Vertical	12	1.50	-
AV	2.484G	52.17	54.00	-1.83	32.29	3	Vertical	12	1.50	-
PK	2.4688G	113.23	Inf	-Inf	32.25	3	Vertical	12	1.50	-
PK	2.4848G	67.05	74.00	-6.95	32.29	3	Vertical	12	1.50	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2462MHz_TX

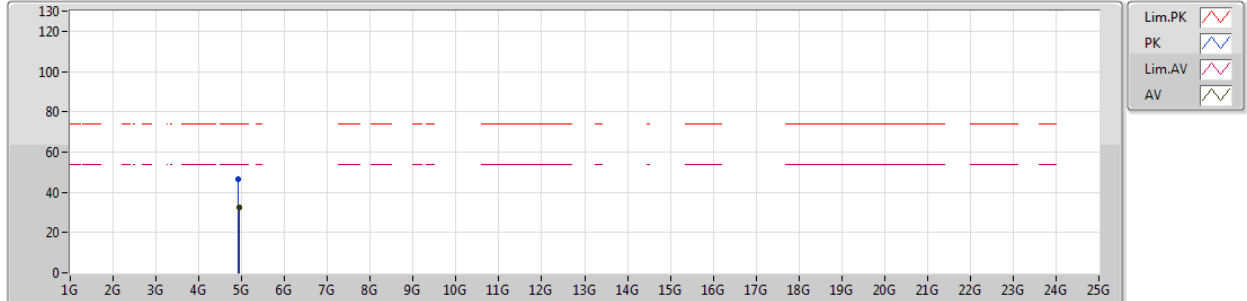


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.9366G	32.42	54.00	-21.58	3.83	3	Vertical	241	2.23	-
PK	4.93228G	45.74	74.00	-28.26	3.82	3	Vertical	241	2.23	-

802.11g_Nss1,(6Mbps)_2TX

29/12/2018

2462MHz_TX

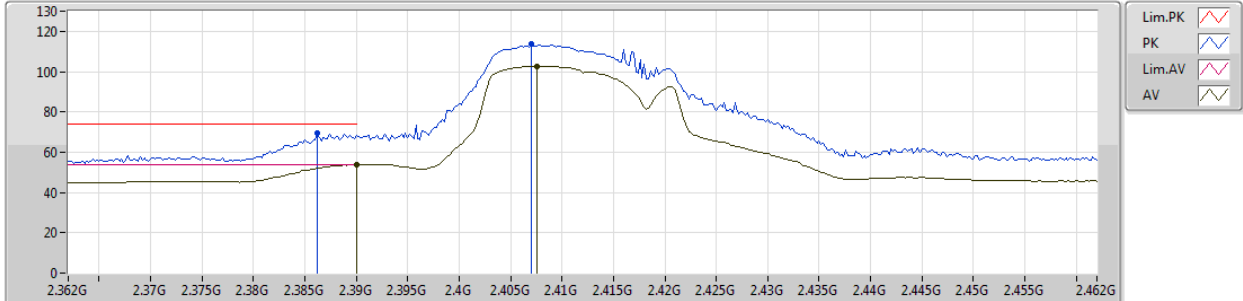


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.9366G	32.43	54.00	-21.57	3.83	3	Horizontal	50	1.86	-
PK	4.9261G	46.46	74.00	-27.54	3.81	3	Horizontal	50	1.86	-

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2412MHz_TX

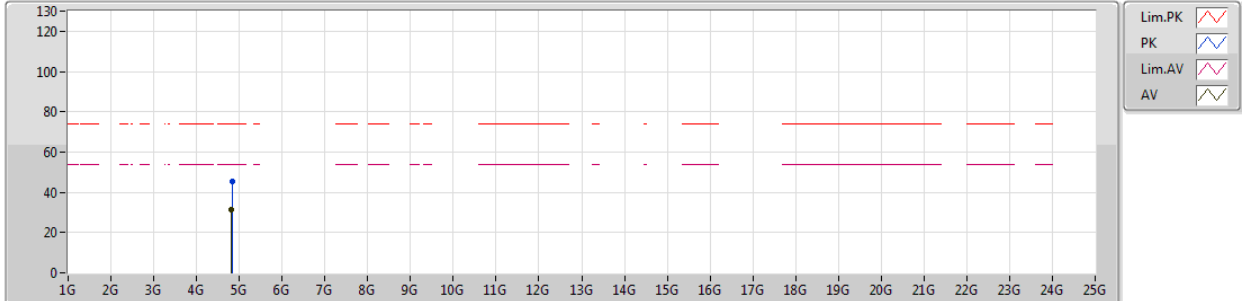


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	53.69	54.00	-0.31	32.01	3	Vertical	186	1.50	-
AV	2.4076G	102.72	Inf	-Inf	32.06	3	Vertical	186	1.50	-
PK	2.3862G	69.31	74.00	-4.69	32.00	3	Vertical	186	1.50	-
PK	2.407G	113.50	Inf	-Inf	32.06	3	Vertical	186	1.50	-

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2412MHz_TX

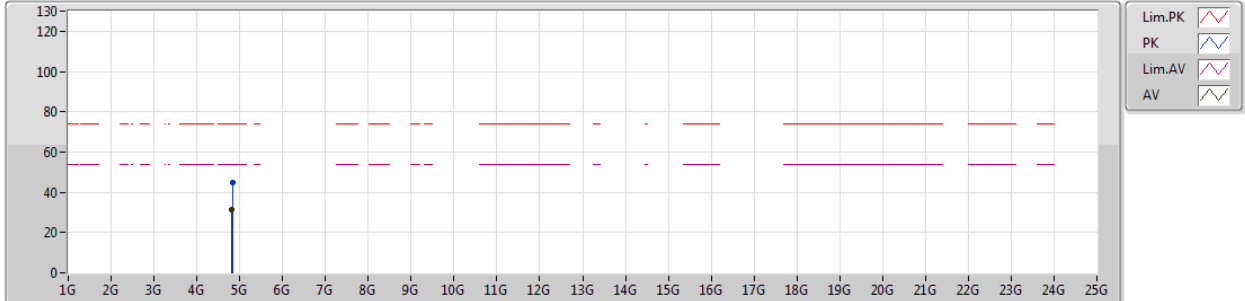


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	4.80906G	31.11	54.00	-22.89	3.55	3	Vertical	289	2.18	-								
PK	4.82856G	45.54	74.00	-28.46	3.59	3	Vertical	289	2.18	-								

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2412MHz_TX

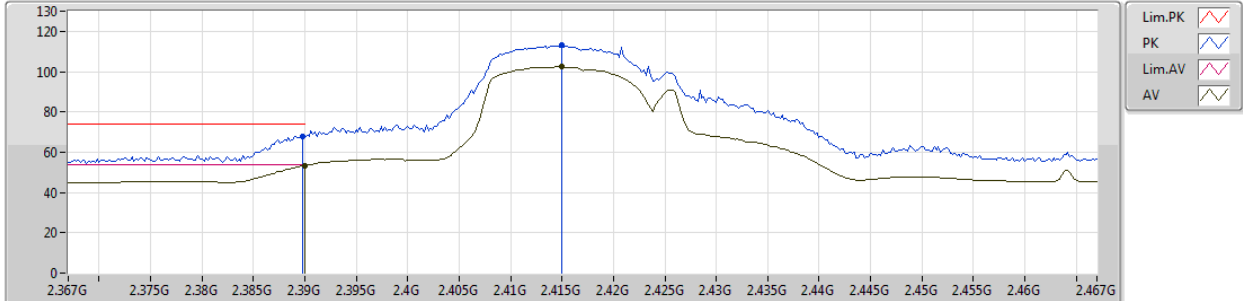


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.80918G	31.58	54.00	-22.42	3.55	3	Horizontal	137	1.13	-
PK	4.82682G	45.02	74.00	-28.98	3.59	3	Horizontal	137	1.13	-

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2417MHz_TX

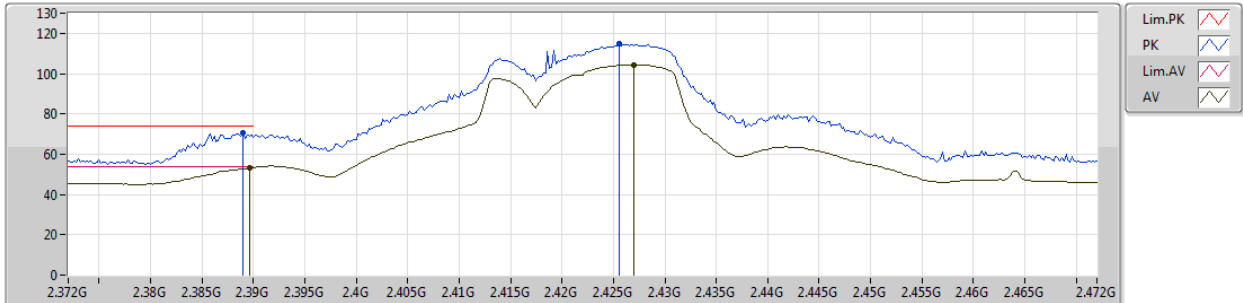


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	53.48	54.00	-0.52	32.01	3	Vertical	248	1.50	-
AV	2.415G	102.34	Inf	-Inf	32.09	3	Vertical	248	1.50	-
PK	2.3898G	67.88	74.00	-6.12	32.01	3	Vertical	248	1.50	-
PK	2.415G	113.11	Inf	-Inf	32.09	3	Vertical	248	1.50	-

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2422MHz_TX

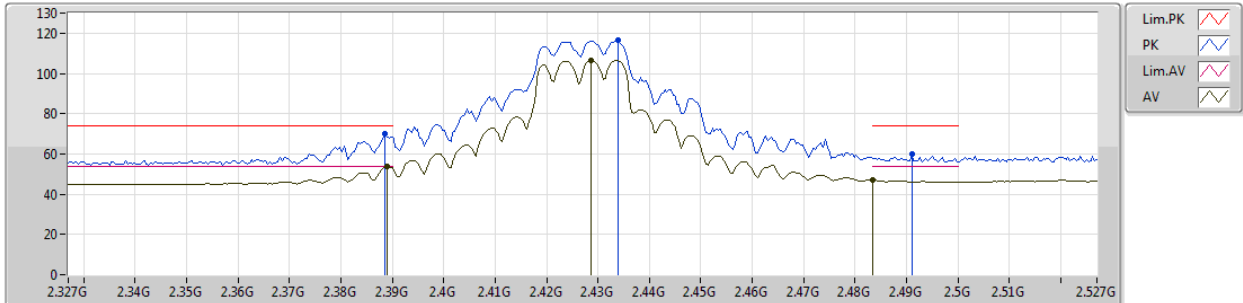


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3896G	53.44	54.00	-0.56	32.01	3	Vertical	47	1.50	-
AV	2.427G	104.49	Inf	-Inf	32.12	3	Vertical	47	1.50	-
PK	2.389G	70.36	74.00	-3.64	32.00	3	Vertical	47	1.50	-
PK	2.4256G	114.72	Inf	-Inf	32.12	3	Vertical	47	1.50	-

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2427MHz_TX

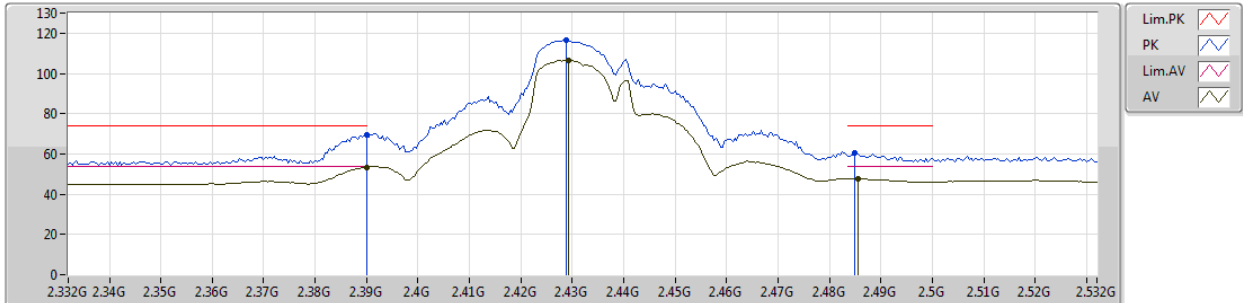


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389G	53.57	54.00	-0.43	32.00	3	Vertical	248	1.50	-
AV	2.4286G	106.34	Inf	-Inf	32.13	3	Vertical	248	1.50	-
AV	2.4835G	47.11	54.00	-6.89	32.29	3	Vertical	248	1.50	-
PK	2.3886G	70.15	74.00	-3.85	32.00	3	Vertical	248	1.50	-
PK	2.4338G	116.72	Inf	-Inf	32.14	3	Vertical	248	1.50	-
PK	2.491G	59.68	74.00	-14.32	32.31	3	Vertical	248	1.50	-

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2432MHz_TX

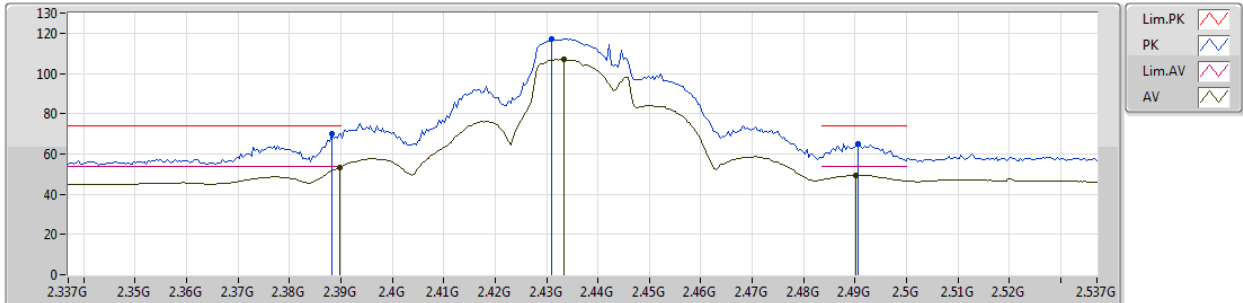


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	53.40	54.00	-0.60	32.01	3	Vertical	249	1.50	-
AV	2.4292G	106.51	Inf	-Inf	32.13	3	Vertical	249	1.50	-
AV	2.4856G	47.69	54.00	-6.31	32.30	3	Vertical	249	1.50	-
PK	2.39G	69.54	74.00	-4.46	32.01	3	Vertical	249	1.50	-
PK	2.4288G	116.62	Inf	-Inf	32.13	3	Vertical	249	1.50	-
PK	2.4848G	60.76	74.00	-13.24	32.29	3	Vertical	249	1.50	-

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2437MHz_TX

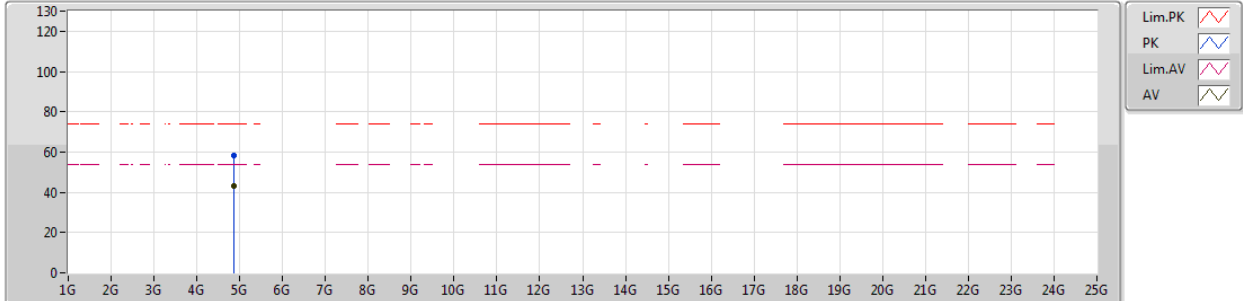


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	53.37	54.00	-0.63	32.01	3	Vertical	53	1.50	-
AV	2.4334G	106.79	Inf	-Inf	32.14	3	Vertical	53	1.50	-
AV	2.4902G	49.36	54.00	-4.64	32.31	3	Vertical	53	1.50	-
PK	2.3882G	70.21	74.00	-3.79	32.00	3	Vertical	53	1.50	-
PK	2.431G	117.01	Inf	-Inf	32.13	3	Vertical	53	1.50	-
PK	2.4906G	65.04	74.00	-8.96	32.31	3	Vertical	53	1.50	-

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2437MHz_TX

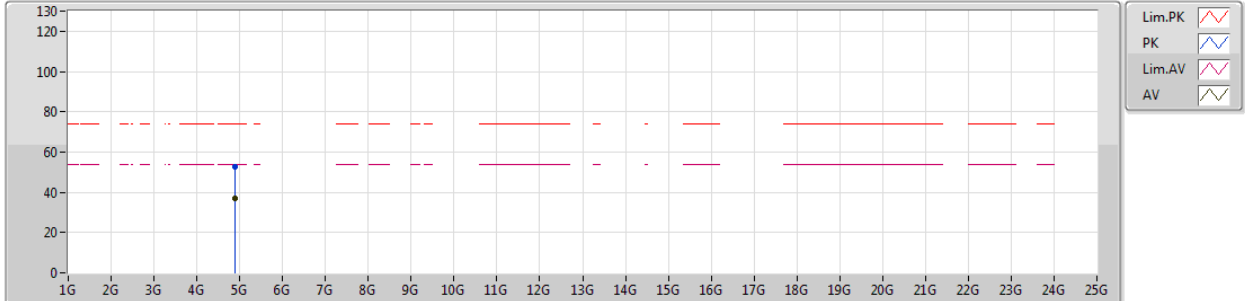


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8756G	43.14	54.00	-10.86	3.70	3	Vertical	15	2.96	-
PK	4.8772G	58.07	74.00	-15.93	3.70	3	Vertical	15	2.96	-

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2437MHz_TX

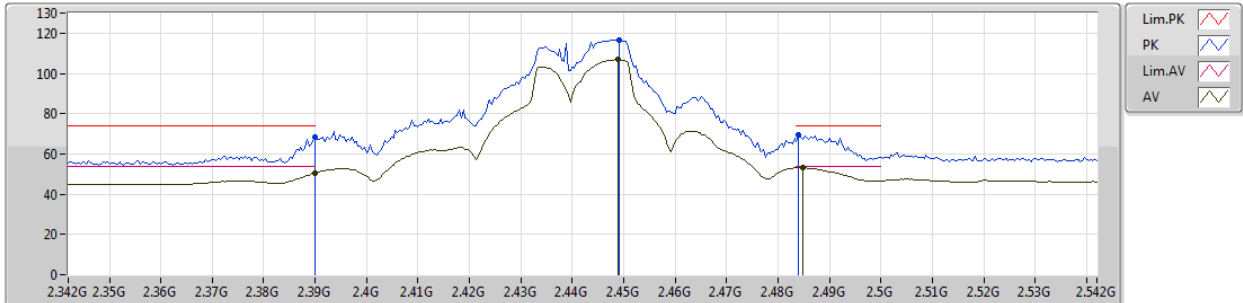


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.88114G	37.09	54.00	-16.91	3.71	3	Horizontal	48	2.24	-
PK	4.87778G	52.48	74.00	-21.52	3.70	3	Horizontal	48	2.24	-

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2442MHz_TX

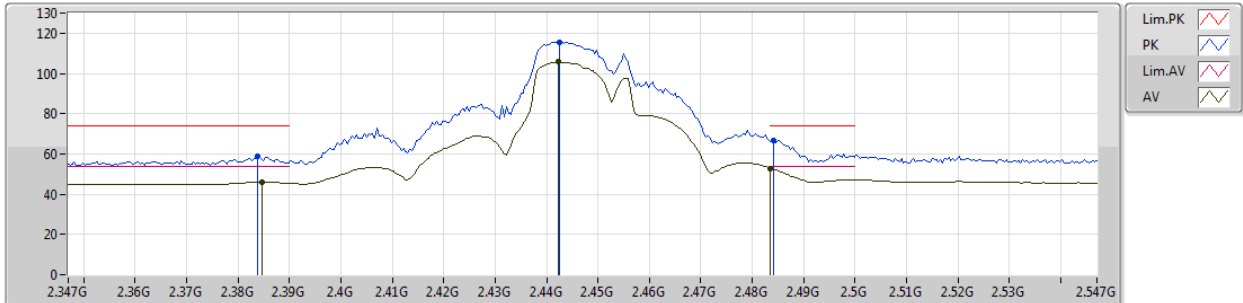


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	50.50	54.00	-3.50	32.01	3	Vertical	305	1.49	-
AV	2.4488G	106.93	Inf	-Inf	32.19	3	Vertical	305	1.49	-
AV	2.4848G	53.21	54.00	-0.79	32.29	3	Vertical	305	1.49	-
PK	2.39G	68.12	74.00	-5.88	32.01	3	Vertical	305	1.49	-
PK	2.4492G	116.74	Inf	-Inf	32.19	3	Vertical	305	1.49	-
PK	2.484G	69.69	74.00	-4.31	32.29	3	Vertical	305	1.49	-

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2447MHz_TX

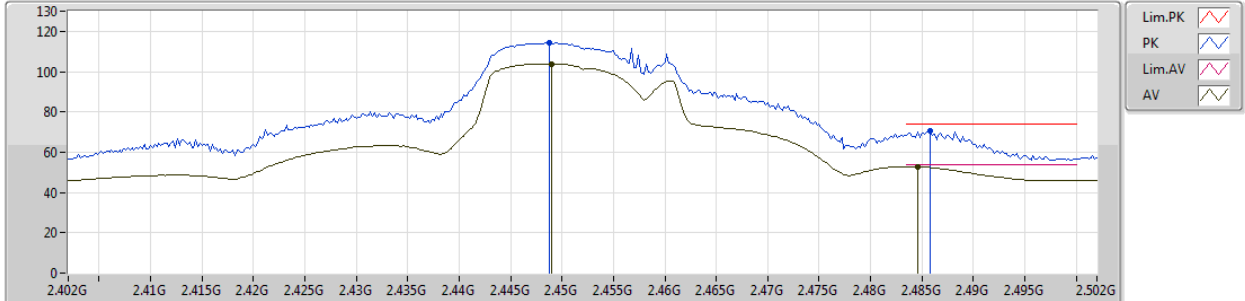


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3846G	45.92	54.00	-8.08	31.98	3	Vertical	51	1.50	-
AV	2.4422G	105.74	Inf	-Inf	32.17	3	Vertical	51	1.50	-
AV	2.4835G	52.88	54.00	-1.12	32.29	3	Vertical	51	1.50	-
PK	2.3838G	58.81	74.00	-15.19	31.98	3	Vertical	51	1.50	-
PK	2.4426G	115.70	Inf	-Inf	32.17	3	Vertical	51	1.50	-
PK	2.4842G	66.84	74.00	-7.16	32.29	3	Vertical	51	1.50	-

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2452MHz_TX

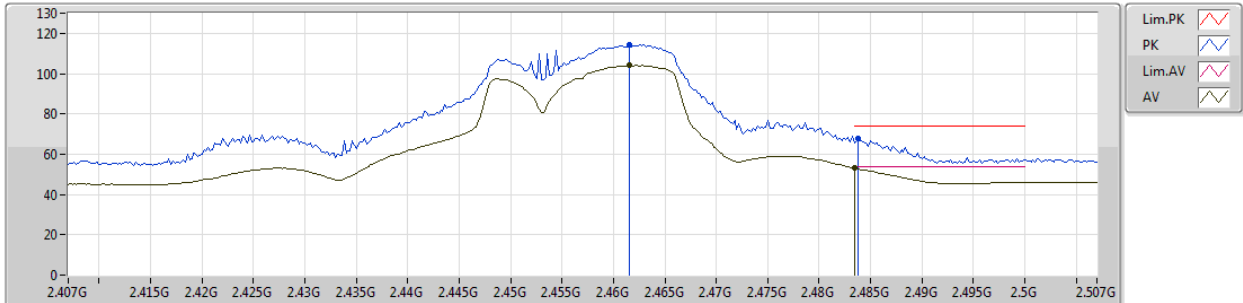


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.449G	103.86	Inf	-Inf	32.19	3	Vertical	185	1.50	-
AV	2.4846G	52.90	54.00	-1.10	32.29	3	Vertical	185	1.50	-
PK	2.4488G	114.49	Inf	-Inf	32.19	3	Vertical	185	1.50	-
PK	2.4858G	70.78	74.00	-3.22	32.30	3	Vertical	185	1.50	-

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2457MHz_TX

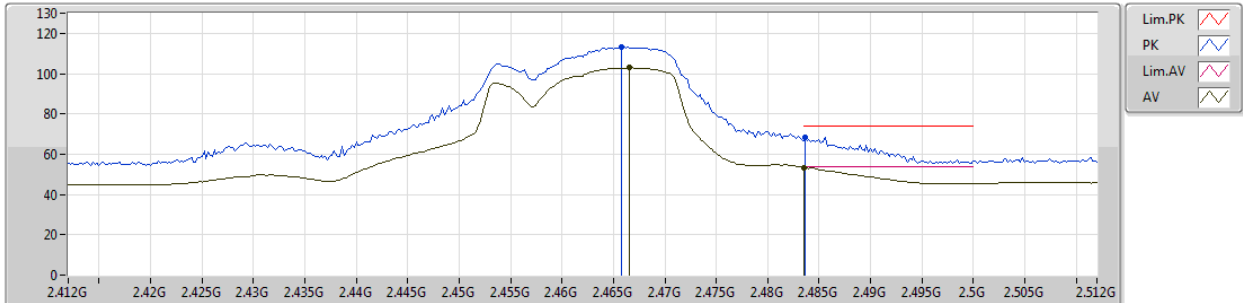


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4616G	103.99	Inf	-Inf	32.23	3	Vertical	121	1.50	-
AV	2.4835G	53.00	54.00	-1.00	32.29	3	Vertical	121	1.50	-
PK	2.4616G	114.46	Inf	-Inf	32.23	3	Vertical	121	1.50	-
PK	2.4838G	67.87	74.00	-6.13	32.29	3	Vertical	121	1.50	-

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2462MHz_TX

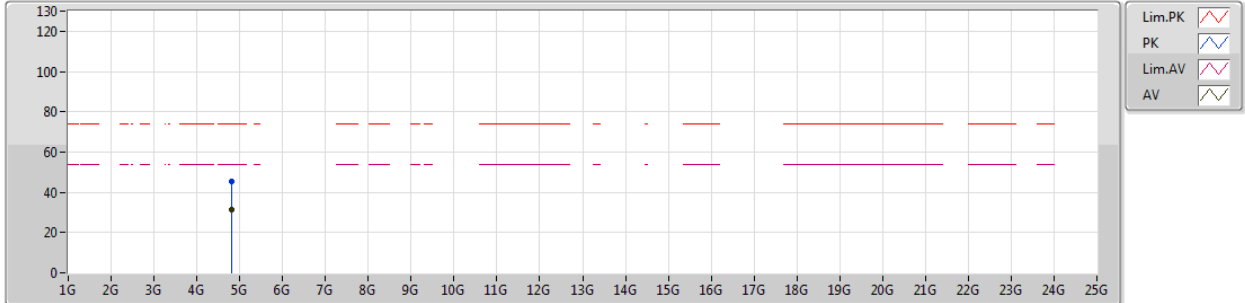


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4666G	102.99	Inf	-Inf	32.24	3	Vertical	116	1.50	-
AV	2.4835G	53.31	54.00	-0.69	32.29	3	Vertical	116	1.50	-
PK	2.4658G	113.11	Inf	-Inf	32.24	3	Vertical	116	1.50	-
PK	2.4836G	68.44	74.00	-5.56	32.29	3	Vertical	116	1.50	-

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2462MHz_TX

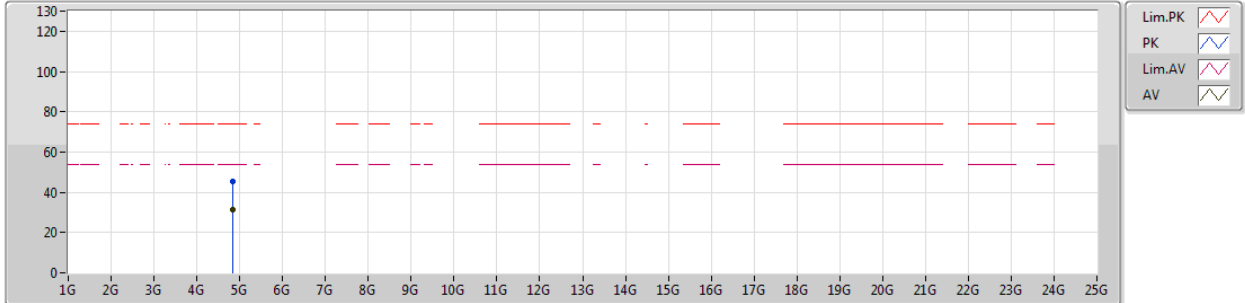


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8102G	31.55	54.00	-22.45	3.55	3	Vertical	173	1.38	-
PK	4.80996G	45.57	74.00	-28.43	3.55	3	Vertical	173	1.38	-

802.11n HT20_Nss1,(MCS0)_2TX

29/12/2018

2462MHz_TX

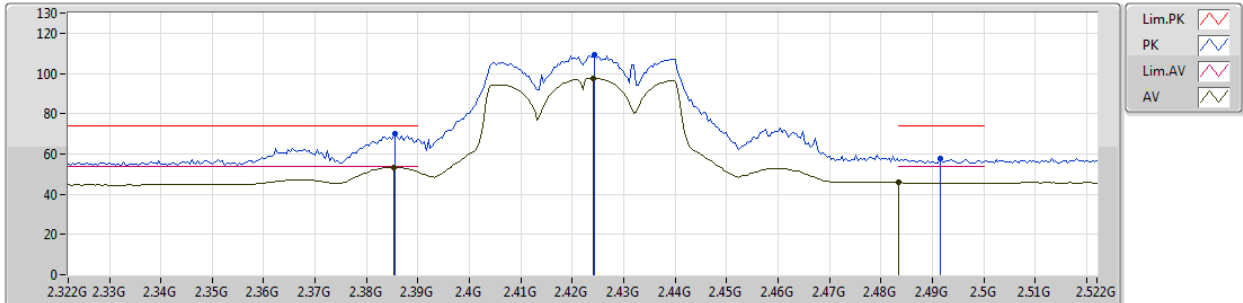


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.83762G	31.62	54.00	-22.38	3.62	3	Horizontal	162	2.03	-
PK	4.82694G	45.41	74.00	-28.59	3.59	3	Horizontal	162	2.03	-

802.11n HT40_Nss1,(MCS0)_2TX

29/12/2018

2422MHz_TX

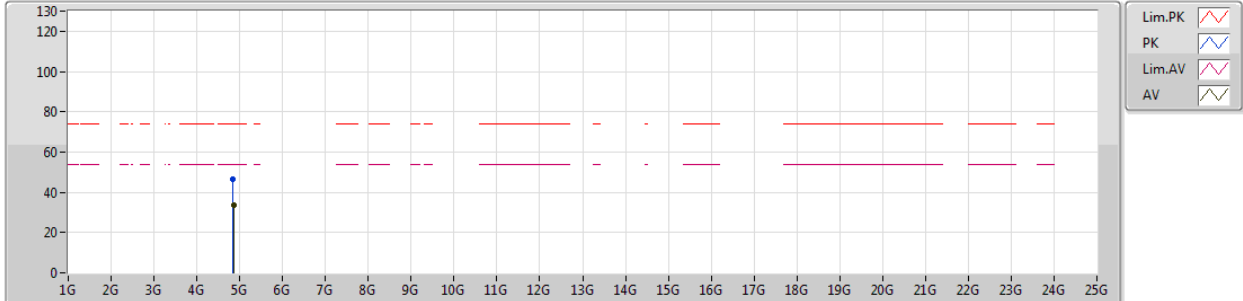


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3852G	53.39	54.00	-0.61	31.99	3	Vertical	23	1.50	-
AV	2.424G	97.54	Inf	-Inf	32.11	3	Vertical	23	1.50	-
AV	2.4835G	45.71	54.00	-8.29	32.29	3	Vertical	23	1.50	-
PK	2.3856G	70.25	74.00	-3.75	32.00	3	Vertical	23	1.50	-
PK	2.4244G	109.19	Inf	-Inf	32.11	3	Vertical	23	1.50	-
PK	2.4916G	57.91	74.00	-16.09	32.31	3	Vertical	23	1.50	-

802.11n HT40_Nss1,(MCS0)_2TX

29/12/2018

2422MHz_TX

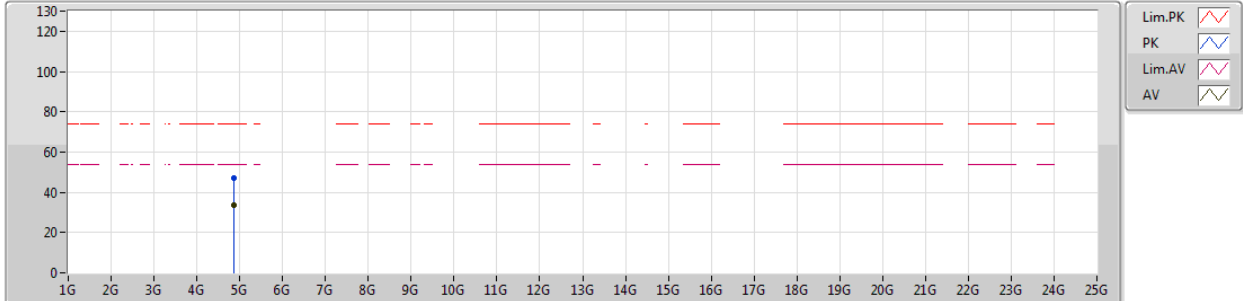


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.859G	33.68	54.00	-20.32	3.66	3	Vertical	248	1.29	-
PK	4.85006G	46.60	74.00	-27.40	3.64	3	Vertical	248	1.29	-

802.11n HT40_Nss1,(MCS0)_2TX

29/12/2018

2422MHz_TX

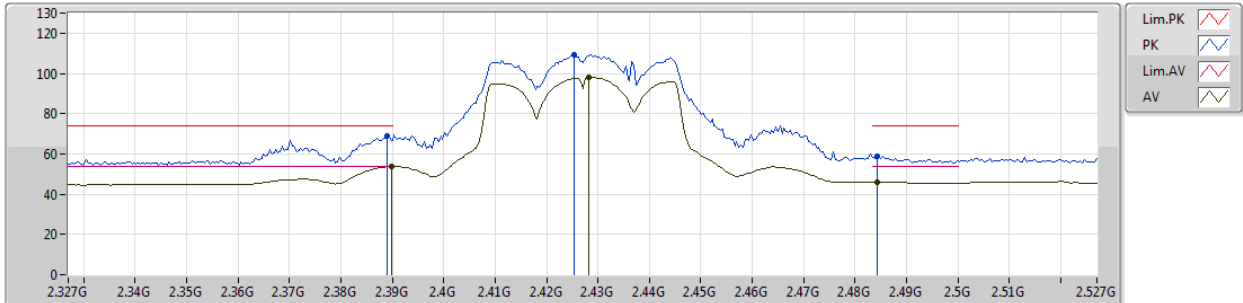


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments							
AV	4.859G	33.77	54.00	-20.23	3.66	3	Horizontal	320	1.76	-							
PK	4.85864G	47.29	74.00	-26.71	3.66	3	Horizontal	320	1.76	-							

802.11n HT40_Nss1,(MCS0)_2TX

29/12/2018

2427MHz_TX

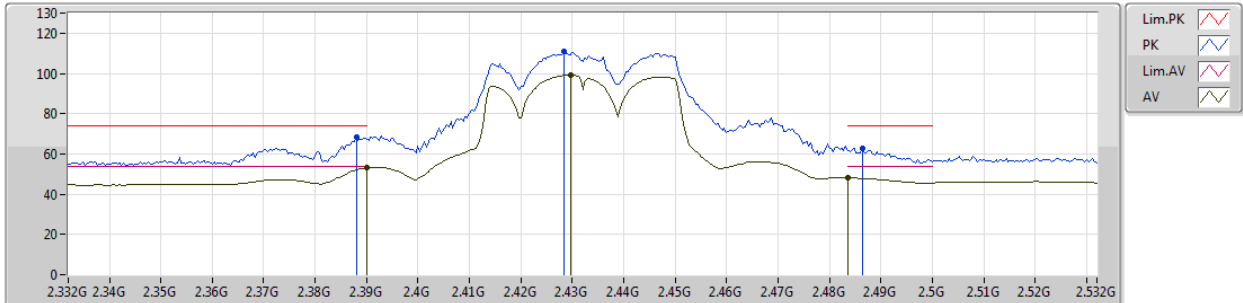


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	53.71	54.00	-0.29	32.01	3	Vertical	22	1.50	-
AV	2.4282G	98.20	Inf	-Inf	32.13	3	Vertical	22	1.50	-
AV	2.4842G	46.21	54.00	-7.79	32.29	3	Vertical	22	1.50	-
PK	2.389G	68.98	74.00	-5.02	32.00	3	Vertical	22	1.50	-
PK	2.4254G	109.41	Inf	-Inf	32.12	3	Vertical	22	1.50	-
PK	2.4842G	58.72	74.00	-15.28	32.29	3	Vertical	22	1.50	-

802.11n HT40_Nss1,(MCS0)_2TX

29/12/2018

2432MHz_TX

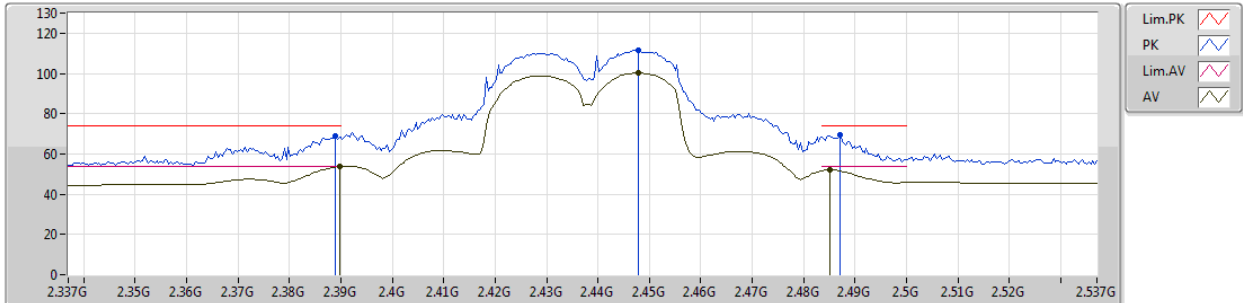


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	52.99	54.00	-1.01	32.01	3	Vertical	246	1.50	-
AV	2.4296G	99.10	Inf	-Inf	32.13	3	Vertical	246	1.50	-
AV	2.4835G	48.20	54.00	-5.80	32.29	3	Vertical	246	1.50	-
PK	2.388G	68.22	74.00	-5.78	32.00	3	Vertical	246	1.50	-
PK	2.4284G	111.20	Inf	-Inf	32.13	3	Vertical	246	1.50	-
PK	2.4864G	62.62	74.00	-11.38	32.30	3	Vertical	246	1.50	-

802.11n HT40_Nss1,(MCS0)_2TX

29/12/2018

2437MHz_TX

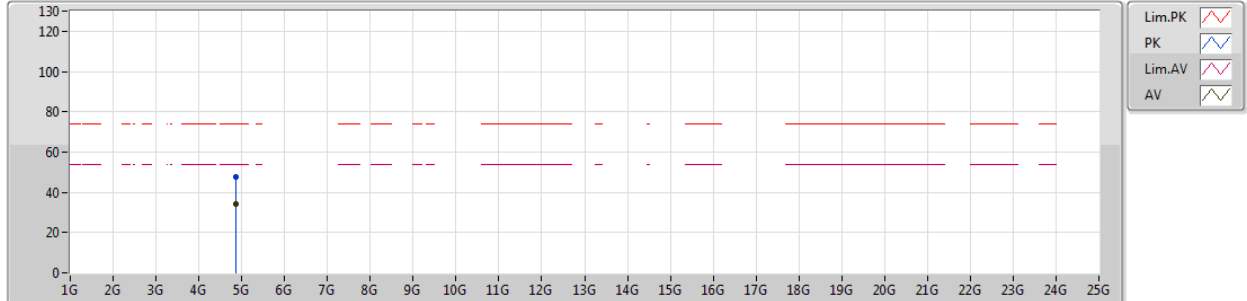


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	53.83	54.00	-0.17	32.01	3	Vertical	143	1.50	-
AV	2.4478G	100.25	Inf	-Inf	32.18	3	Vertical	143	1.50	-
AV	2.485G	52.00	54.00	-2.00	32.29	3	Vertical	143	1.50	-
PK	2.389G	68.75	74.00	-5.25	32.00	3	Vertical	143	1.50	-
PK	2.4478G	111.43	Inf	-Inf	32.18	3	Vertical	143	1.50	-
PK	2.487G	69.36	74.00	-4.64	32.30	3	Vertical	143	1.50	-

802.11n HT40_Nss1,(MCS0)_2TX

29/12/2018

2437MHz_TX

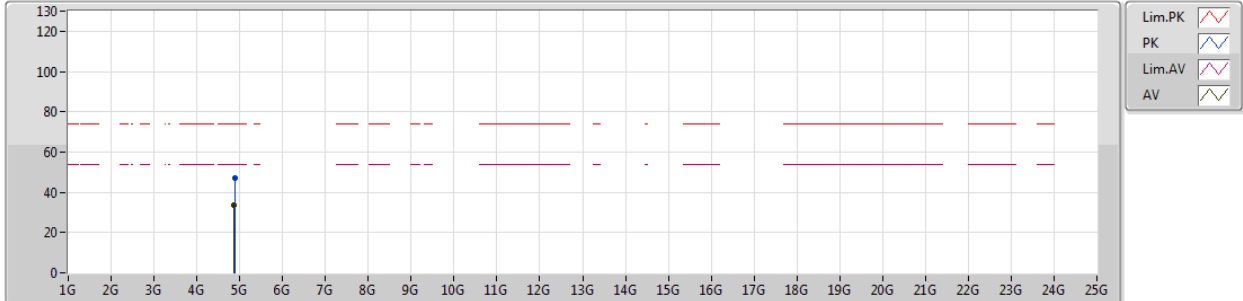


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8745G	33.94	54.00	-20.06	3.69	3	Vertical	251	1.12	-
PK	4.8759G	47.72	74.00	-26.28	3.70	3	Vertical	251	1.12	-

802.11n HT40_Nss1,(MCS0)_2TX

29/12/2018

2437MHz_TX

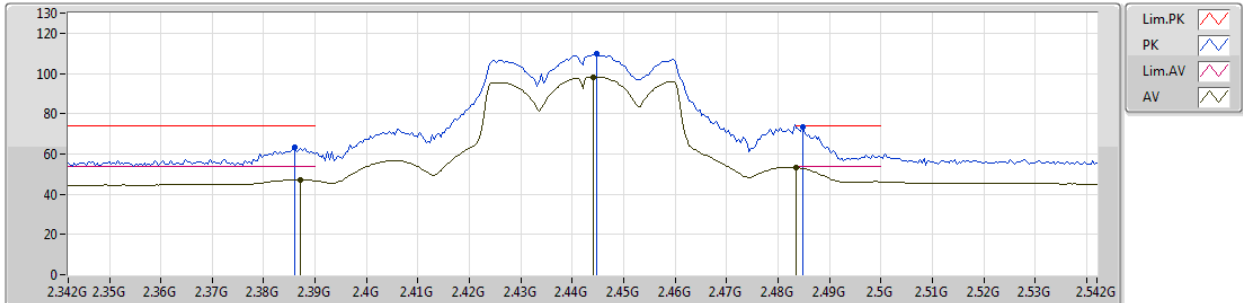


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8744G	33.35	54.00	-20.65	3.69	3	Horizontal	345	1.57	-
PK	4.8794G	46.87	74.00	-27.13	3.70	3	Horizontal	345	1.57	-

802.11n HT40_Nss1,(MCS0)_2TX

29/12/2018

2442MHz_TX

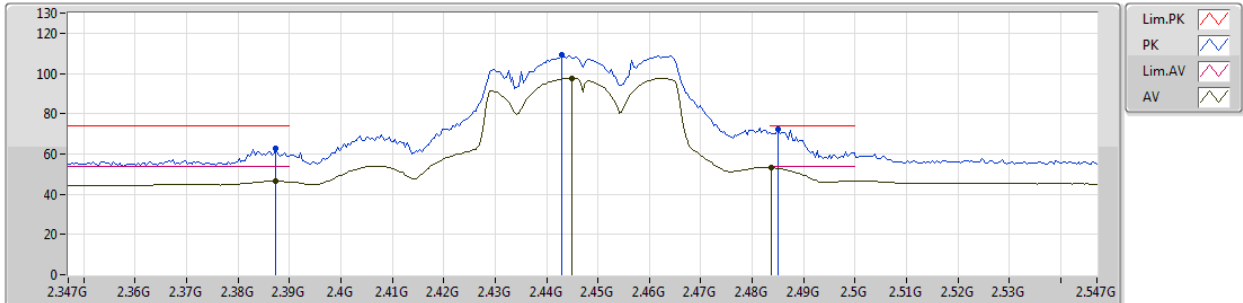


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3872G	47.18	54.00	-6.82	32.00	3	Vertical	143	1.49	-
AV	2.444G	98.33	Inf	-Inf	32.18	3	Vertical	143	1.49	-
AV	2.4835G	53.26	54.00	-0.74	32.29	3	Vertical	143	1.49	-
PK	2.386G	63.25	74.00	-10.75	32.00	3	Vertical	143	1.49	-
PK	2.4448G	109.88	Inf	-Inf	32.18	3	Vertical	143	1.49	-
PK	2.4848G	73.28	74.00	-0.72	32.29	3	Vertical	143	1.49	-

802.11n HT40_Nss1,(MCS0)_2TX

29/12/2018

2447MHz_TX

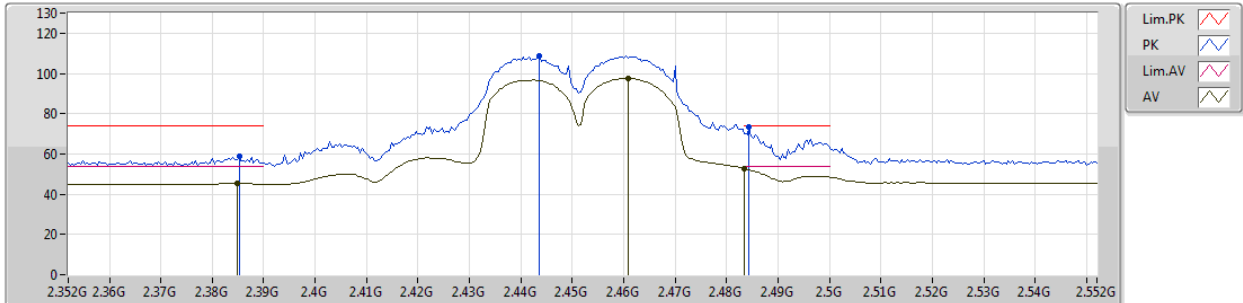


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3874G	46.35	54.00	-7.65	32.00	3	Vertical	60	1.50	-
AV	2.445G	97.48	Inf	-Inf	32.18	3	Vertical	60	1.50	-
AV	2.4838G	53.09	54.00	-0.91	32.29	3	Vertical	60	1.50	-
PK	2.3874G	62.90	74.00	-11.10	32.00	3	Vertical	60	1.50	-
PK	2.443G	109.15	Inf	-Inf	32.17	3	Vertical	60	1.50	-
PK	2.485G	72.28	74.00	-1.72	32.29	3	Vertical	60	1.50	-

802.11n HT40_Nss1,(MCS0)_2TX

29/12/2018

2452MHz_TX

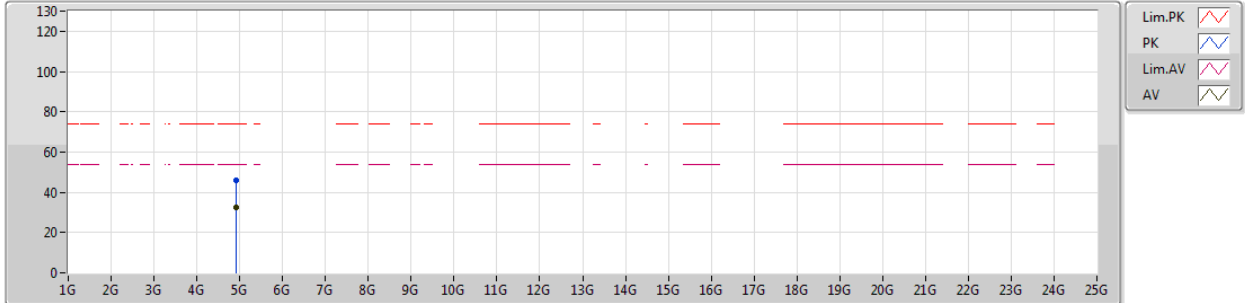


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3848G	45.32	54.00	-8.68	31.98	3	Vertical	7	1.50	-
AV	2.4608G	97.56	Inf	-Inf	32.23	3	Vertical	7	1.50	-
AV	2.4835G	52.65	54.00	-1.35	32.29	3	Vertical	7	1.50	-
PK	2.3852G	58.60	74.00	-15.40	31.99	3	Vertical	7	1.50	-
PK	2.4436G	108.55	Inf	-Inf	32.17	3	Vertical	7	1.50	-
PK	2.4844G	73.45	74.00	-0.55	32.29	3	Vertical	7	1.50	-

802.11n HT40_Nss1,(MCS0)_2TX

29/12/2018

2452MHz_TX

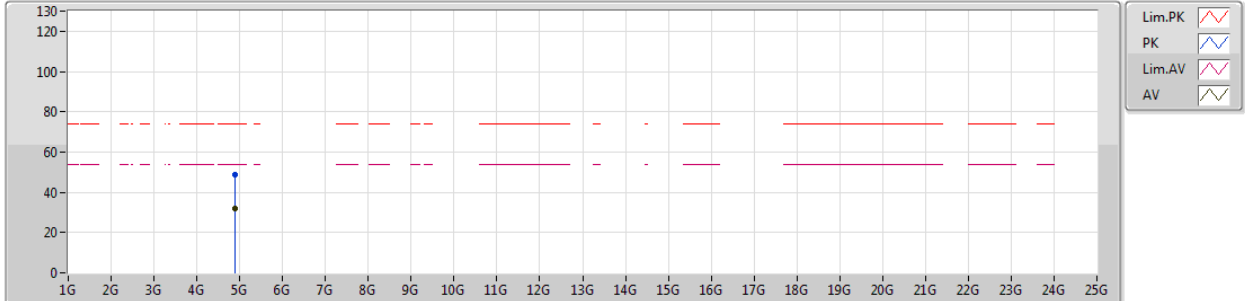


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.91798G	32.32	54.00	-21.68	3.79	3	Vertical	187	1.12	-
PK	4.90634G	45.99	74.00	-28.01	3.76	3	Vertical	187	1.12	-

802.11n HT40_Nss1,(MCS0)_2TX

29/12/2018

2452MHz_TX



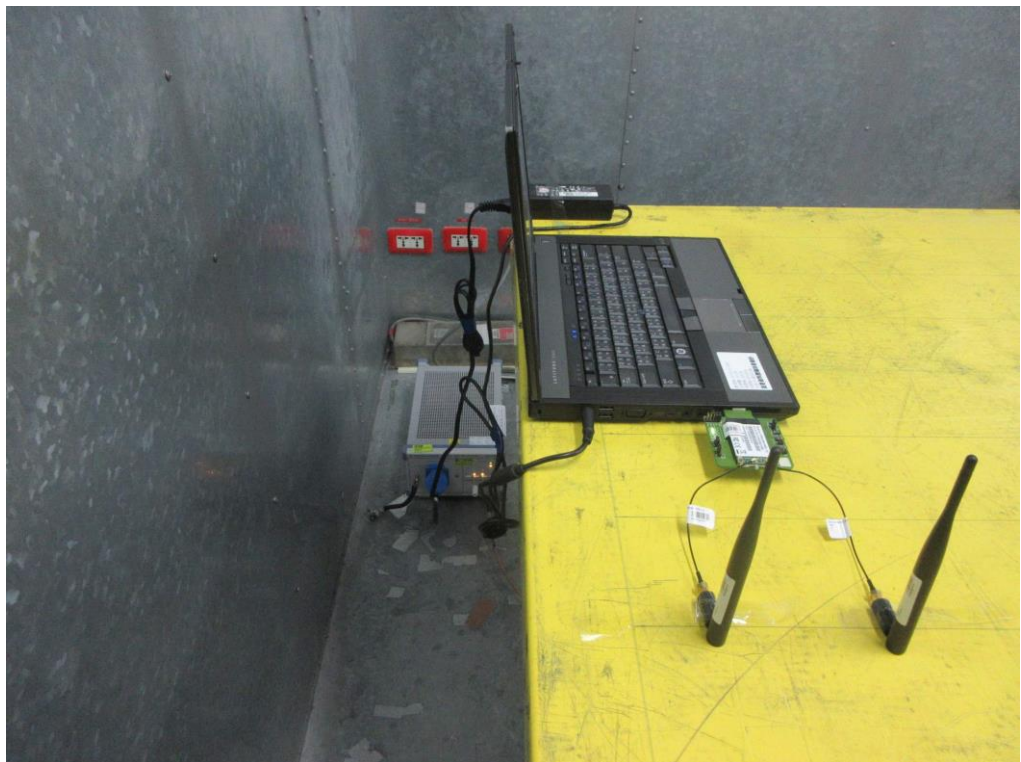
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.89512G	32.17	54.00	-21.83	3.74	3	Horizontal	15	1.49	-
PK	4.88972G	48.70	74.00	-25.30	3.73	3	Horizontal	15	1.49	-

1. Photographs of Conducted Emissions Test Configuration

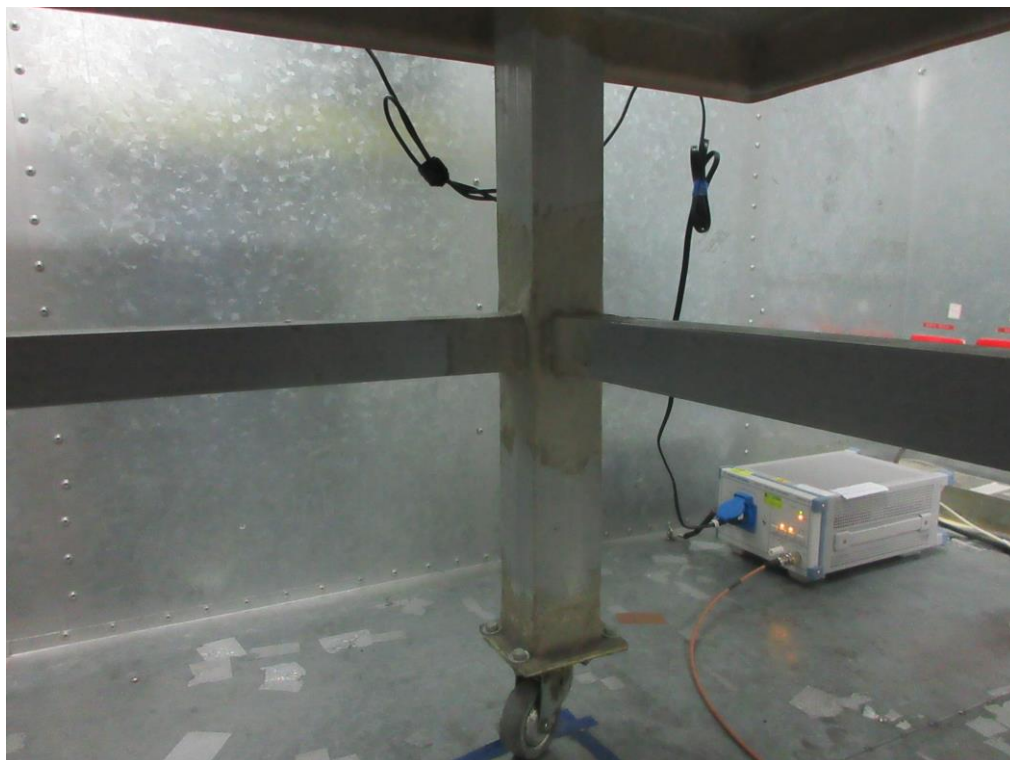
Front view



Side view



Under table view



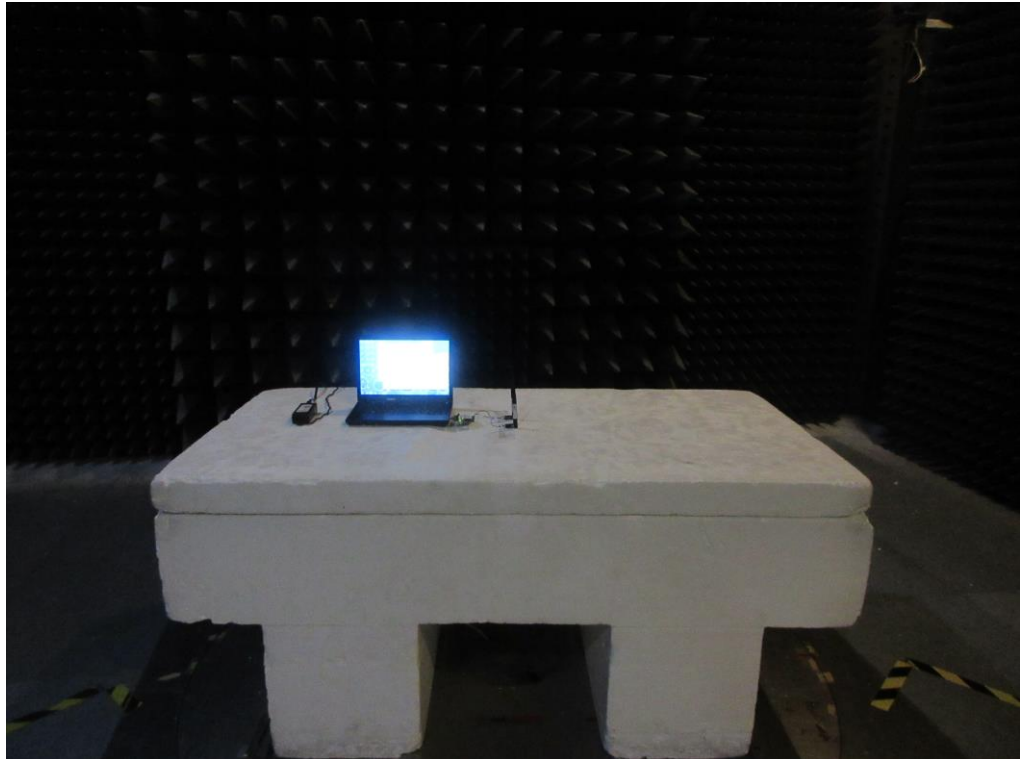
EUT close-up photo



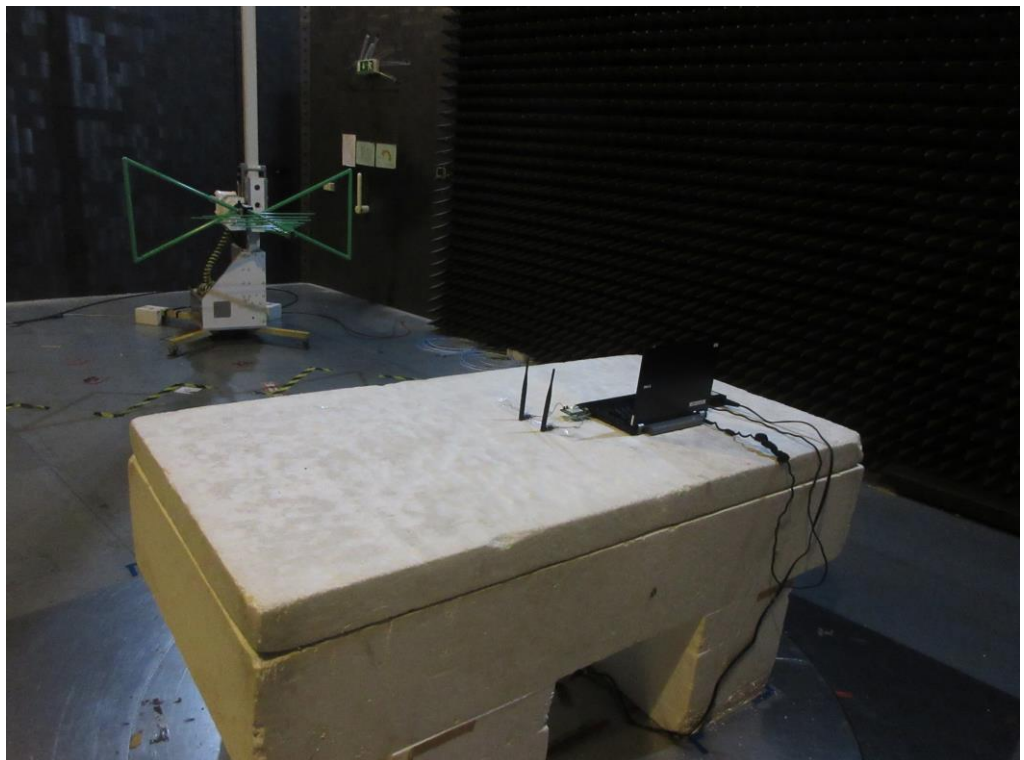
2. Photographs of Radiated Emissions Test Configuration

For radiated emissions 30MHz~1GHz

Front view

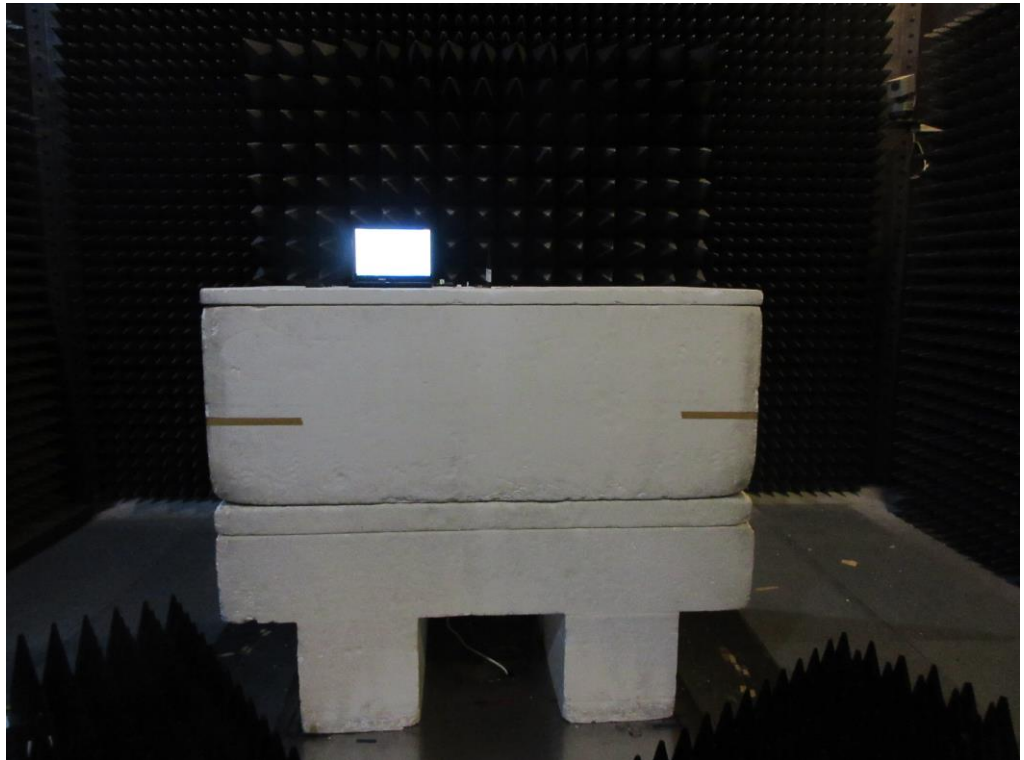


Rear view



For radiated emissions above 1GHz

Front view



Rear view



————THE END————