


FCC Test Report

Equipment : Cloud FishEye Camera
Brand Name : 
Model No. : OPAL S1 , OPAL S1 Plus
FCC ID : PWQ0OPAL000000
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz – 2483.5 MHz
Function : Point-to-multipoint; Point-to-point
Applicant / Manufacturer : GEOVISION INC.
9F, No. 246, Sec. 1, Neihu Rd., Neihu District, Taipei
114, Taiwan

The product sample received on Apr. 05, 2017 and completely tested on Apr. 24, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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


Phoenix Chen
SPORTON INTERNATIONAL INC.





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APPENDIX G. TEST PHOTOS

PHOTOGRAPHS OF EUT V01



Summary of Test Result

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



1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

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

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	taoglas	PC17	PIFA Antenna	I-PEX	0.83

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From AC Adapter
Beamforming Function	<input type="checkbox"/> With beamforming <input checked="" type="checkbox"/> Without beamforming
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)
	Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)
	Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	Other:

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.991	0.039	n/a (DC \geq 0.98)	n/a (DC \geq 0.98)
802.11g	0.936	0.287	1.398m	1k
802.11n HT20	0.931	0.311	1.31m	1k

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ KDB 558074 D01 v04

1.3 Testing Location Information

Testing Location			
<input checked="" type="checkbox"/>	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. 553509 with FCC.			
<input type="checkbox"/>	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	TH06-HY	Lisa	23.1°C / 63.1%	06/Apr/2017
Radiated	03CH09-HY	Jeff	20.8°C / 51%	18/Apr/2017
AC Conduction	CO04-HY	Bear	20.7°C / 65%	24/Apr/2017

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	2.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	2.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	2.9 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode




Test Software	command
---------------	---------

Mode	Power Setting
802.11b_(1Mbps)_1TX	-
2412MHz	default
2437MHz	default
2462MHz	default
802.11g_(6Mbps)_1TX	-
2412MHz	default
2437MHz	default
2462MHz	default
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	default
2437MHz	default
2462MHz	default

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	Normal Link
1	Adapter mode
2	USB mode
Mode 2 configuration was pretested and found to be the worst case and measured during the test.	

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



2.4 Accessories

Accessories				
AC Adapter 2 (US Plug) (Wall Mount)	Brand Name	Ktec	Model Name	KSA29B0500200D5
	Power Rating	I/P: <u>100</u> - <u>240</u> Vac, <u>0.5</u> A, O/P: <u>5</u> Vdc, <u>2A</u>		
USB Cable	Power Cord	1.95 meter, shield cable		

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

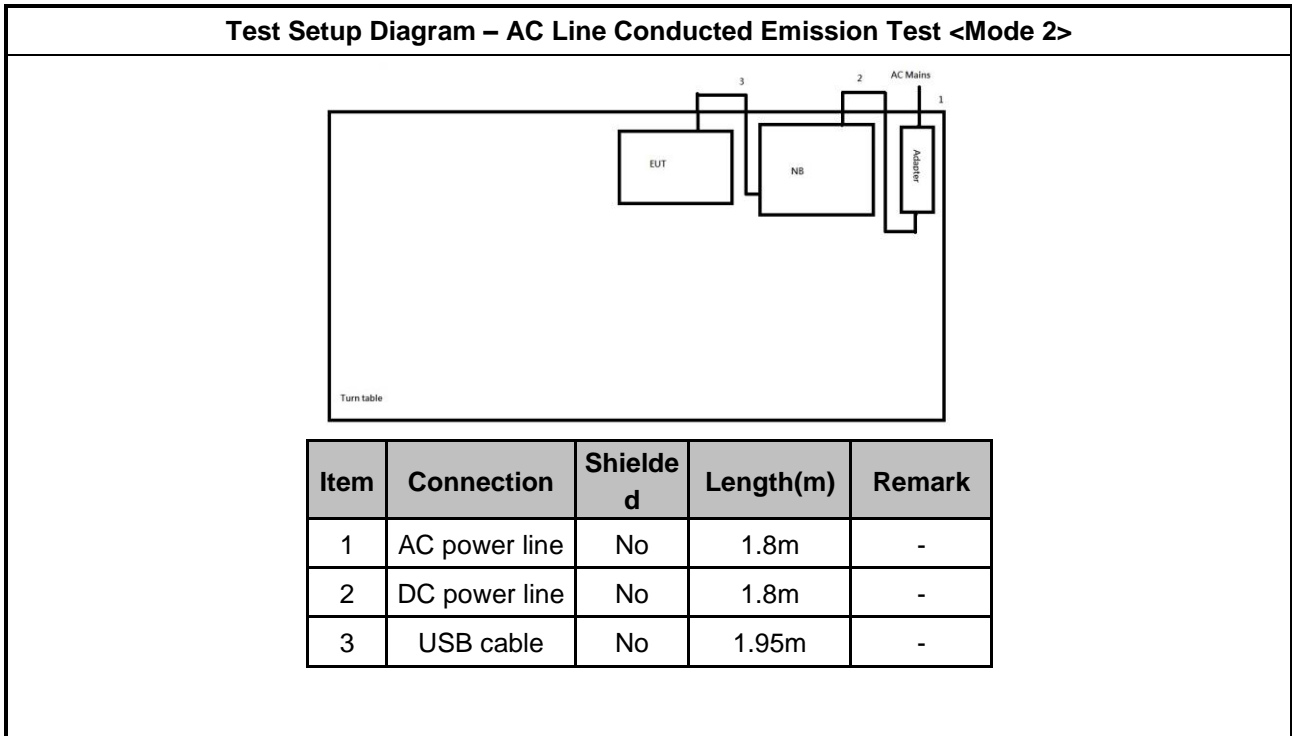
2.5 Support Equipment

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

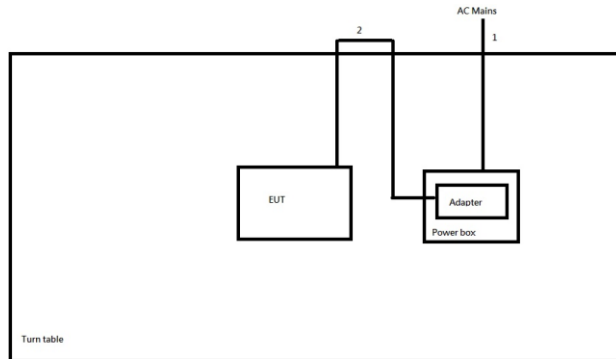
Support Equipment - Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	LA65NS2-01	DoC

Support Equipment - AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5530	DoC
2	Adapter for NB	DELL	LA65NS2-01	DoC

2.6 Test Setup Diagram

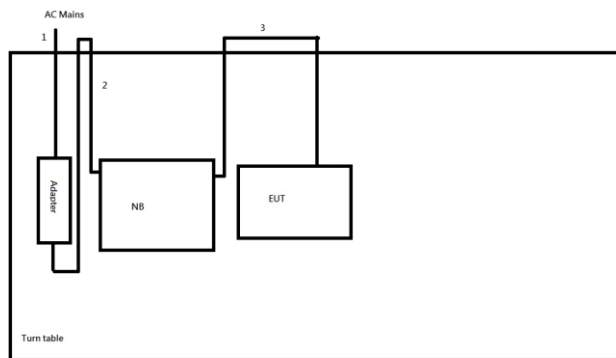


Test Setup Diagram - Radiated Test <Mode 1>



Item	Connection	Shielded	Length(m)	Remark
1	AC power line	No	1.8m	-
2	USB cable	No	1.95m	-

Test Setup Diagram - Radiated Test <Mode 2>



Item	Connection	Shielded	Length(m)	Remark
1	AC power line	No	1.8m	-
2	DC power line	No	1.8m	-
3	USB cable	No	1.95m	-

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.

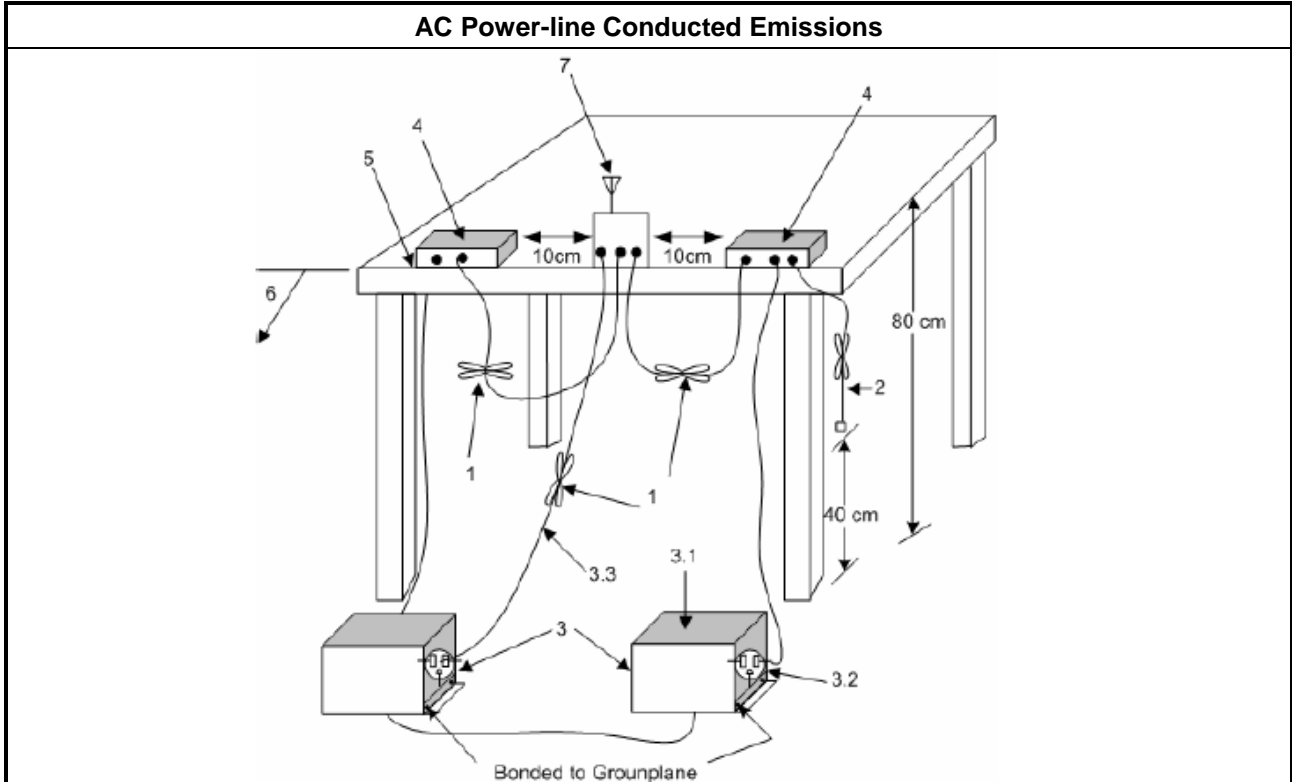
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> 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:	
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz. 	

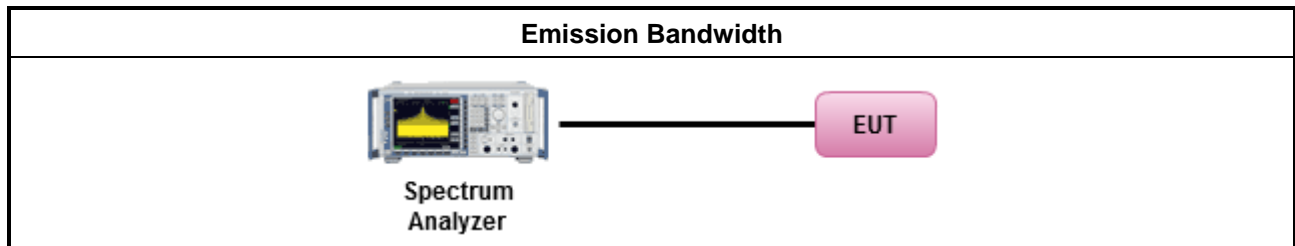
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: 	
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/>	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	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS): <ul style="list-style-type: none"> - 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 $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dBm
e.i.r.p. Power Limit:	
	<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS) <ul style="list-style-type: none"> - 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.	

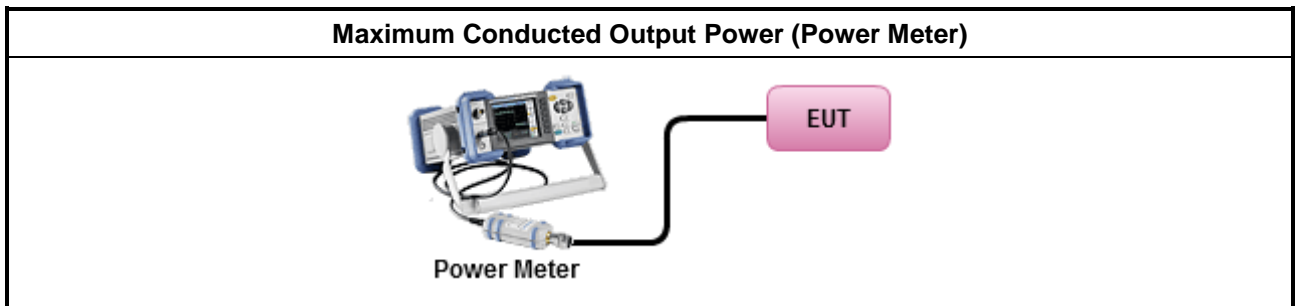
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
<input type="checkbox"/>	Refer as KDB 558074, clause 9.1.2 Option 2 (integrated band power method)
<input type="checkbox"/>	Refer as KDB 558074, clause 9.1.3 Option 3 (peak power meter for VBW ≥ DTS BW)
<ul style="list-style-type: none"> ▪ Maximum Average Conducted Output Power 	
Duty cycle ≥ 98%	
<input type="checkbox"/>	Refer as KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
Duty cycle < 98%	
<input type="checkbox"/>	Refer as KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
RF power meter and average over on/off periods with duty factor or gated trigger	
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 9.2.3.1 Method AVGPM (using an RF average power meter).
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ 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. 	
<ul style="list-style-type: none"> ▪ 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
<ul style="list-style-type: none"> Power Spectral Density (PSD) \leq 8 dBm/3kHz

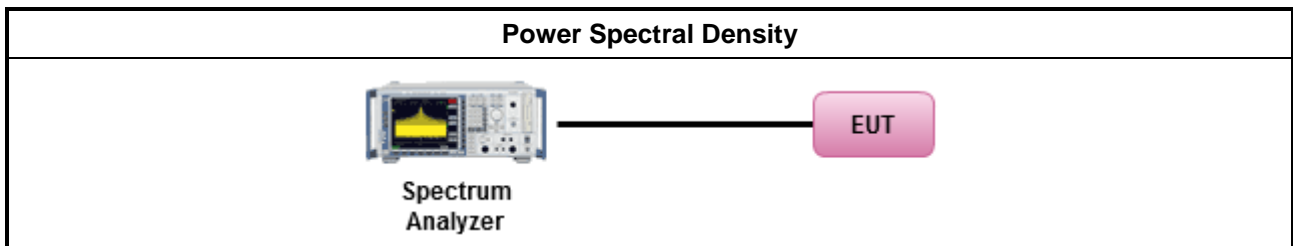
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> 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). 	
<input checked="" type="checkbox"/> Refer as KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak).	
<ul style="list-style-type: none"> For conducted measurement. 	
<ul style="list-style-type: none"> If The EUT supports multiple transmit chains using options given below: 	
<input type="checkbox"/>	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.

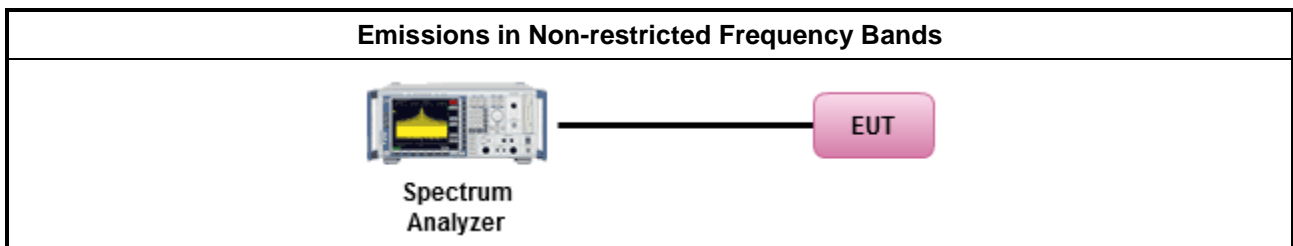
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as KDB 558074, clause 11 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

3.6.2 Measuring Instruments

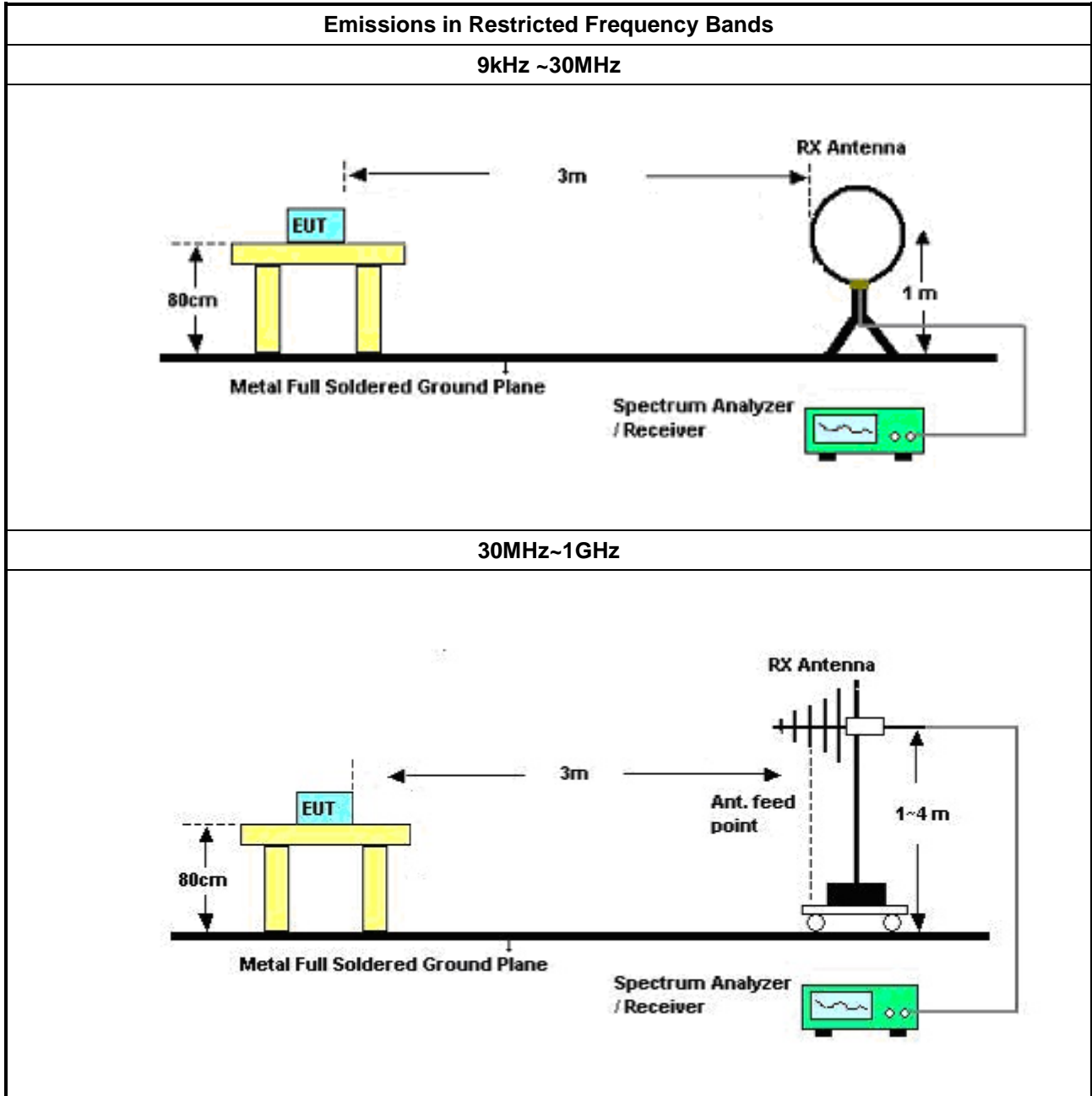
Refer a test equipment and calibration data table in this test report.

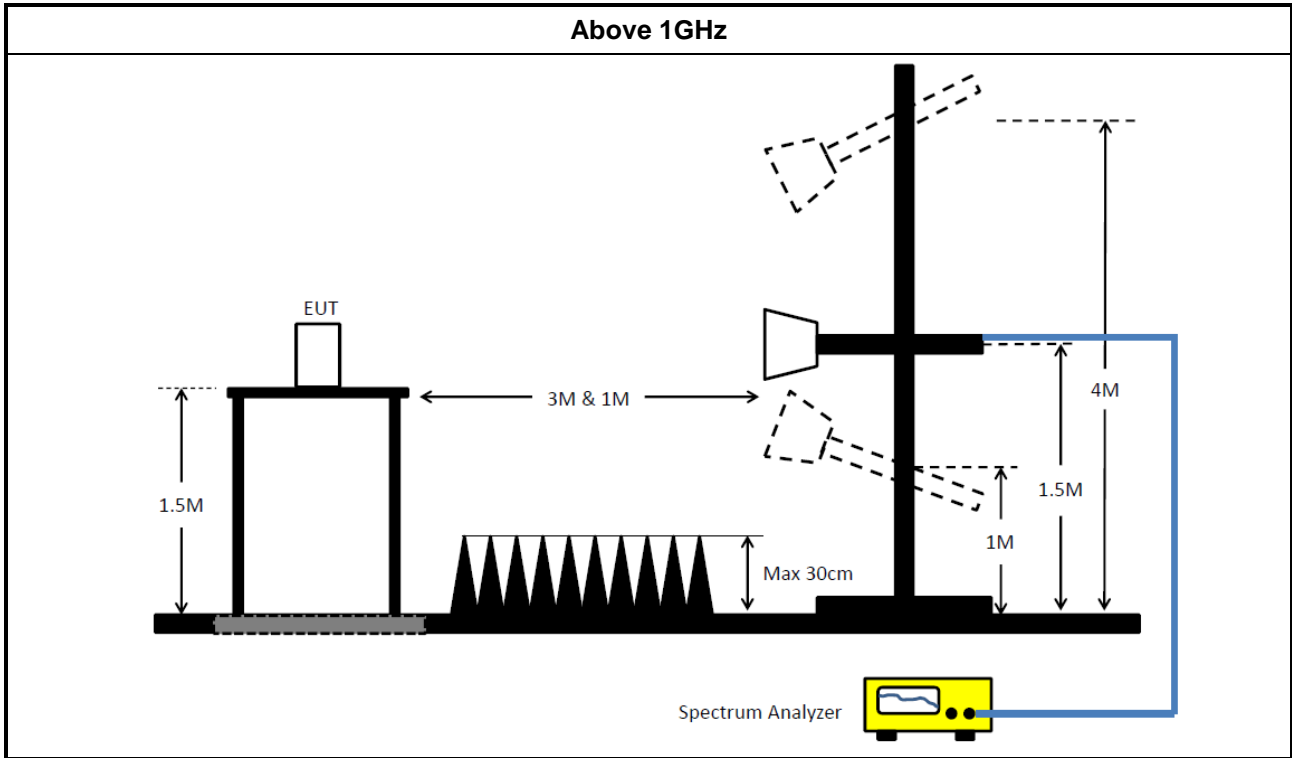


3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ 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. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 12 for unwanted emissions into restricted bands. 	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Refer as KDB 558074, clause 12.2.5.3 (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW\geq1/T.
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Refer as KDB 558074, clause 12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074 clause 13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 13.2 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
<ul style="list-style-type: none"> ▪ For conducted and cabinet radiation measurement, refer as KDB 558074, clause 12.2.2. 	
	<ul style="list-style-type: none"> ▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	<ul style="list-style-type: none"> ▪ For KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





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

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. All amplitude of spurious emissions that are attenuated by more than 20 dB 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	ESR3	102051	9KHz ~ 3.6GHz	05/Apr/2017	04/Apr/2018
RF Cable-CON	HUBER+SUHNER	RG213/U	0761183202000 1	9kHz ~ 30MHz	24/Oct/2016	23/Oct/2017
LISN	SCHWARZBECK MESS-ELEKTRO NIK	NSLK 8127	8127-477	9kHz ~ 30MHz	14/Feb/2017	13/ Feb/2018

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	25/Apr/2016	24/Apr/2017
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	21/Jun/2016	20/Jun/2017
Amplifier	Agilent	8449B	3008A02364	1GHz ~ 26.5GHz	17/Nov/2016	16/Nov/2017
Amplifier	EMC	EMC9135	980209	9KHz~1GHz	05/Sep/2016	04/Sep/2017
Spectrum Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	04/Jul/2016	03/Jul/2017
Bilog Antenna	TESEQ	CBL 6111D	35418	30MHz~1GHz	01/Oct/2016	30/Sep/2017
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA9120D 1534	1GHz~18GHz	22/Apr/2016	21/Apr/2017
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170614	18GHz ~ 40GHz	06/Feb/2017	05/Feb/2018
Loop Antenna	R&S	HFH2-Z2	100330	9 kHz~30 MHz	10/Nov/2016	09/Nov/2017
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	23/Jul/2016	22/Jul/2017
RF Cable-high	Jye Bao	RG142	03CH09-HY	1GHz ~ 40GHz	23/Jul/2016	22/Jul/2017

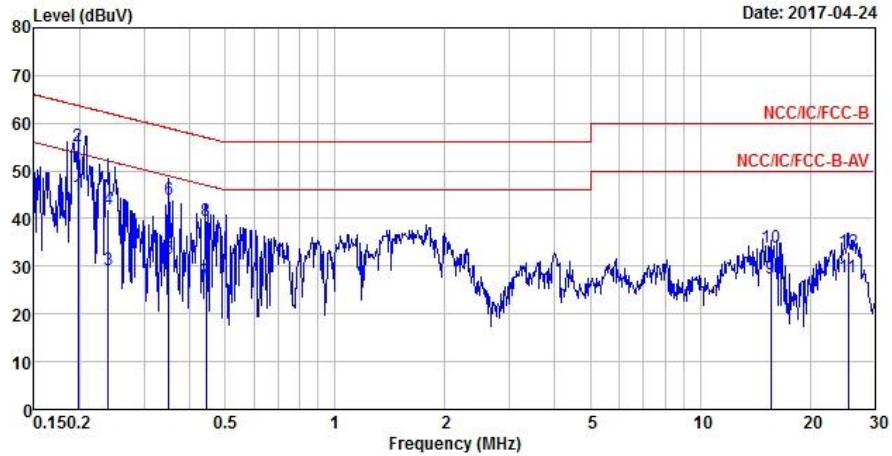
Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101500	10Hz~40GHz	12/May/2016	11/May/2017
Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	24/Feb/2017	23/Feb/2018
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	24/Feb/2017	23/Feb/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/Jul/2016	20/Jul/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_10 4	MY677/3	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_10 4	MY678/3	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_10 4	MY10717/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017



AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Neutral
Operating Function	USB mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.20	44.88	-8.83	53.71	44.55	0.03	0.30	Average
2 MAX	0.20	55.31	-8.40	63.71	54.98	0.03	0.30	QP
3	0.24	29.21	-22.92	52.13	28.93	0.03	0.25	Average
4	0.24	41.90	-20.23	62.13	41.62	0.03	0.25	QP
5	0.35	31.73	-17.23	48.96	31.56	0.03	0.14	Average
6	0.35	43.99	-14.97	58.96	43.82	0.03	0.14	QP
7	0.44	26.81	-20.17	46.98	26.68	0.03	0.10	Average
8	0.44	39.44	-17.54	56.98	39.31	0.03	0.10	QP
9	15.63	27.47	-22.53	50.00	26.95	0.32	0.20	Average
10	15.63	34.01	-25.99	60.00	33.49	0.32	0.20	QP
11	25.46	27.82	-22.18	50.00	27.14	0.47	0.21	Average
12	25.46	33.11	-26.89	60.00	32.43	0.47	0.21	QP

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



AC Power-line Conducted Emissions Result																																																																																																																																										
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<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th></th> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>Read</th> <th>LISN</th> <th>Cable</th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV</th> <th>Limit</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th></th> </tr> <tr> <th></th> <th></th> <th></th> <th>dB</th> <th>dBuV</th> <th>dBuV</th> <th>dB</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.19</td> <td>39.33</td> <td>-14.73</td> <td>54.06</td> <td>38.97</td> <td>0.07</td> <td>0.29</td> <td>Average</td> </tr> <tr> <td>2</td> <td>0.19</td> <td>50.37</td> <td>-13.69</td> <td>64.06</td> <td>50.01</td> <td>0.07</td> <td>0.29</td> <td>MAX QP</td> </tr> <tr> <td>3</td> <td>0.26</td> <td>32.36</td> <td>-19.11</td> <td>51.47</td> <td>32.06</td> <td>0.07</td> <td>0.23</td> <td>Average</td> </tr> <tr> <td>4</td> <td>0.26</td> <td>41.29</td> <td>-20.18</td> <td>61.47</td> <td>40.99</td> <td>0.07</td> <td>0.23</td> <td>QP</td> </tr> <tr> <td>5</td> <td>0.38</td> <td>28.23</td> <td>-19.98</td> <td>48.21</td> <td>28.05</td> <td>0.07</td> <td>0.11</td> <td>Average</td> </tr> <tr> <td>6</td> <td>0.38</td> <td>39.01</td> <td>-19.20</td> <td>58.21</td> <td>38.83</td> <td>0.07</td> <td>0.11</td> <td>QP</td> </tr> <tr> <td>7</td> <td>0.50</td> <td>23.48</td> <td>-22.52</td> <td>46.00</td> <td>23.31</td> <td>0.07</td> <td>0.10</td> <td>Average</td> </tr> <tr> <td>8</td> <td>0.50</td> <td>36.30</td> <td>-19.70</td> <td>56.00</td> <td>36.13</td> <td>0.07</td> <td>0.10</td> <td>QP</td> </tr> <tr> <td>9</td> <td>15.39</td> <td>26.51</td> <td>-23.49</td> <td>50.00</td> <td>25.83</td> <td>0.48</td> <td>0.20</td> <td>Average</td> </tr> <tr> <td>10</td> <td>15.39</td> <td>31.53</td> <td>-28.47</td> <td>60.00</td> <td>30.85</td> <td>0.48</td> <td>0.20</td> <td>QP</td> </tr> <tr> <td>11</td> <td>26.28</td> <td>27.92</td> <td>-22.08</td> <td>50.00</td> <td>26.95</td> <td>0.74</td> <td>0.23</td> <td>Average</td> </tr> <tr> <td>12</td> <td>26.28</td> <td>33.07</td> <td>-26.93</td> <td>60.00</td> <td>32.10</td> <td>0.74</td> <td>0.23</td> <td>QP</td> </tr> </tbody> </table>					Freq	Level	Over	Limit	Read	LISN	Cable	Remark		MHz	dBuV	Limit	Line	Level	Factor	Loss					dB	dBuV	dBuV	dB	dB		1	0.19	39.33	-14.73	54.06	38.97	0.07	0.29	Average	2	0.19	50.37	-13.69	64.06	50.01	0.07	0.29	MAX QP	3	0.26	32.36	-19.11	51.47	32.06	0.07	0.23	Average	4	0.26	41.29	-20.18	61.47	40.99	0.07	0.23	QP	5	0.38	28.23	-19.98	48.21	28.05	0.07	0.11	Average	6	0.38	39.01	-19.20	58.21	38.83	0.07	0.11	QP	7	0.50	23.48	-22.52	46.00	23.31	0.07	0.10	Average	8	0.50	36.30	-19.70	56.00	36.13	0.07	0.10	QP	9	15.39	26.51	-23.49	50.00	25.83	0.48	0.20	Average	10	15.39	31.53	-28.47	60.00	30.85	0.48	0.20	QP	11	26.28	27.92	-22.08	50.00	26.95	0.74	0.23	Average	12	26.28	33.07	-26.93	60.00	32.10	0.74	0.23	QP
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Summary

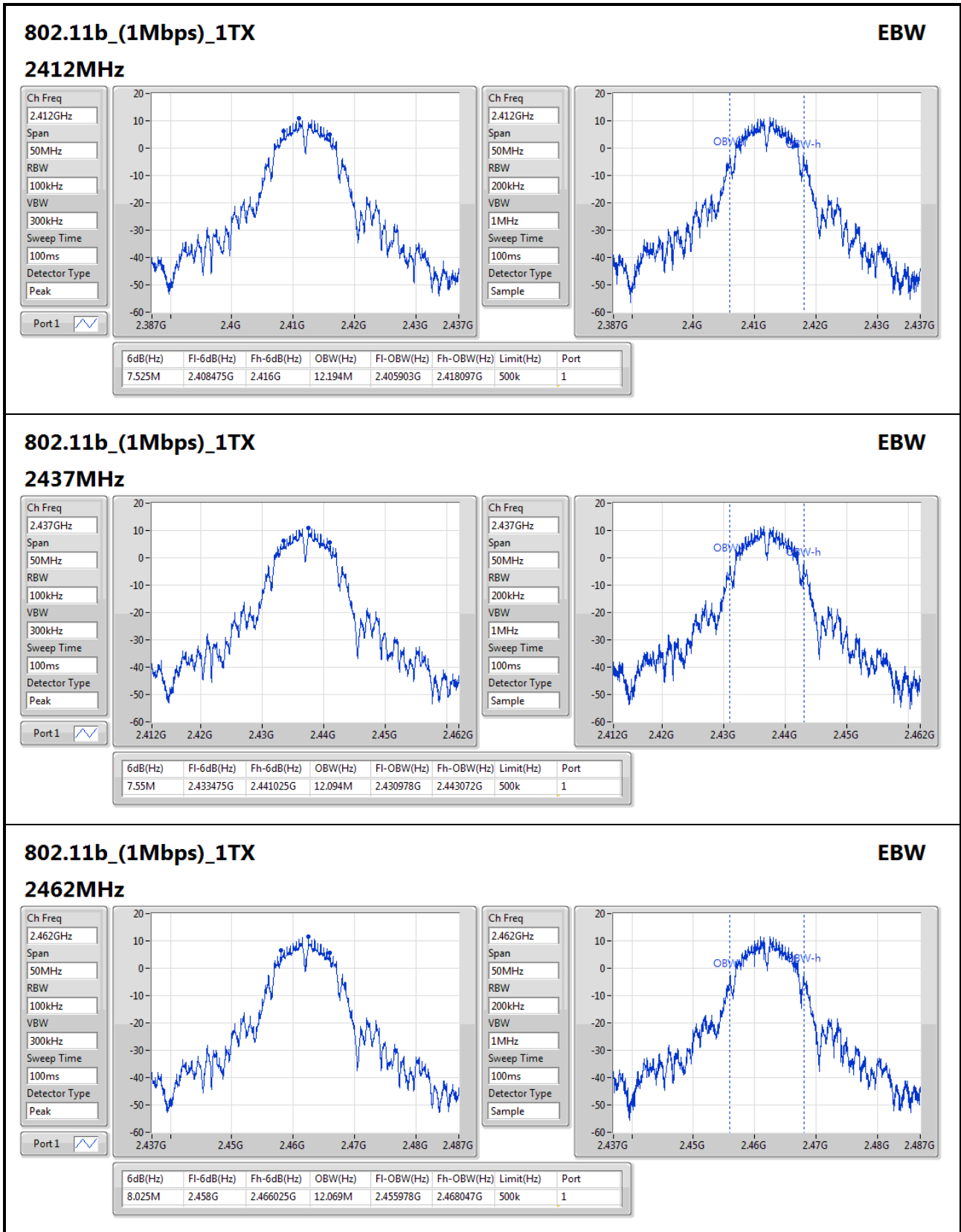
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11b_(1Mbps)_1TX	-	-	-	-	-
2.4-2.4835GHz	8.025M	12.194M	12M2G1D	7.525M	12.069M
802.11g_(6Mbps)_1TX	-	-	-	-	-
2.4-2.4835GHz	15.325M	16.392M	16M4D1D	14.45M	16.367M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2.4-2.4835GHz	15.1M	17.541M	17M5D1D	14.125M	17.491M

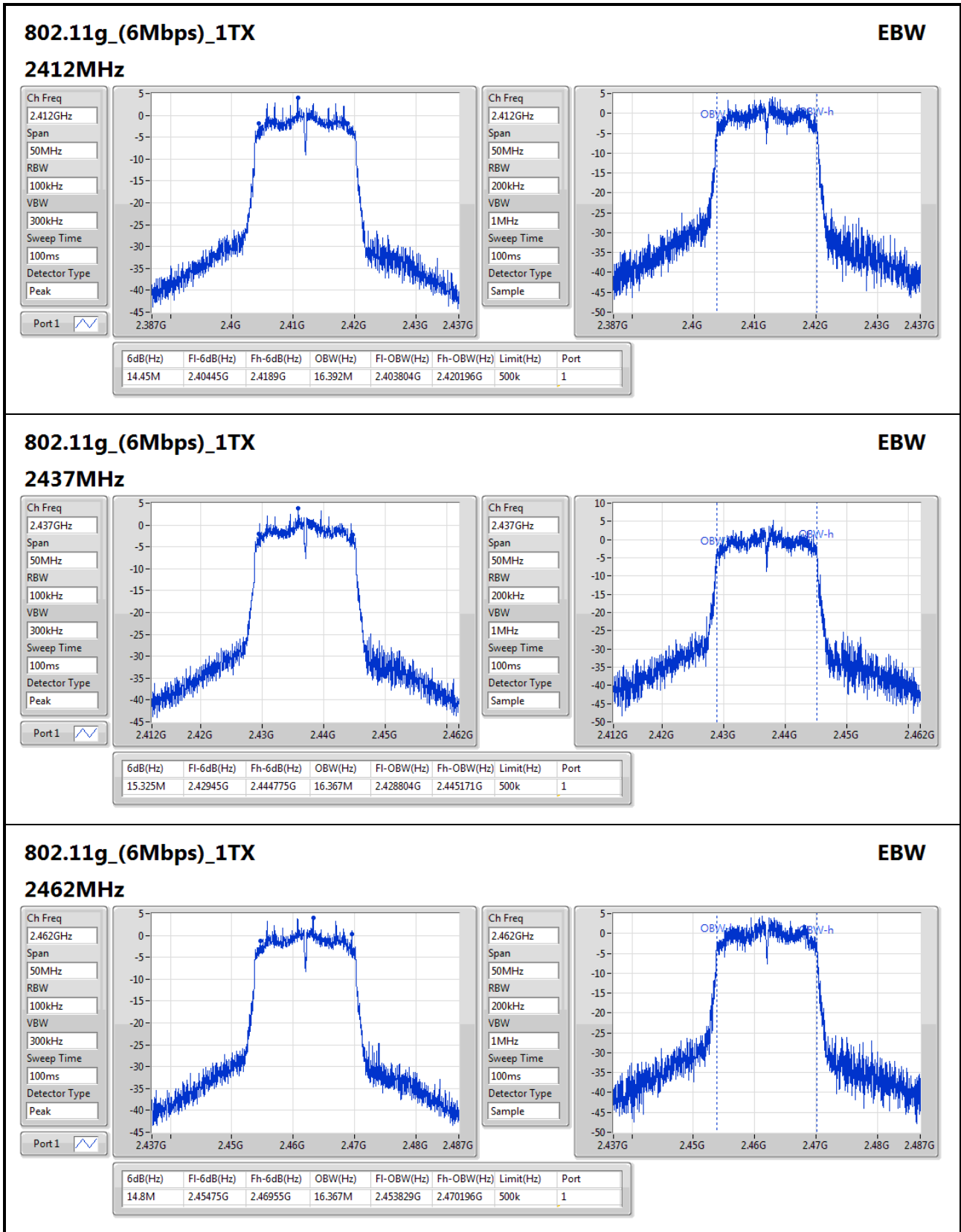
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

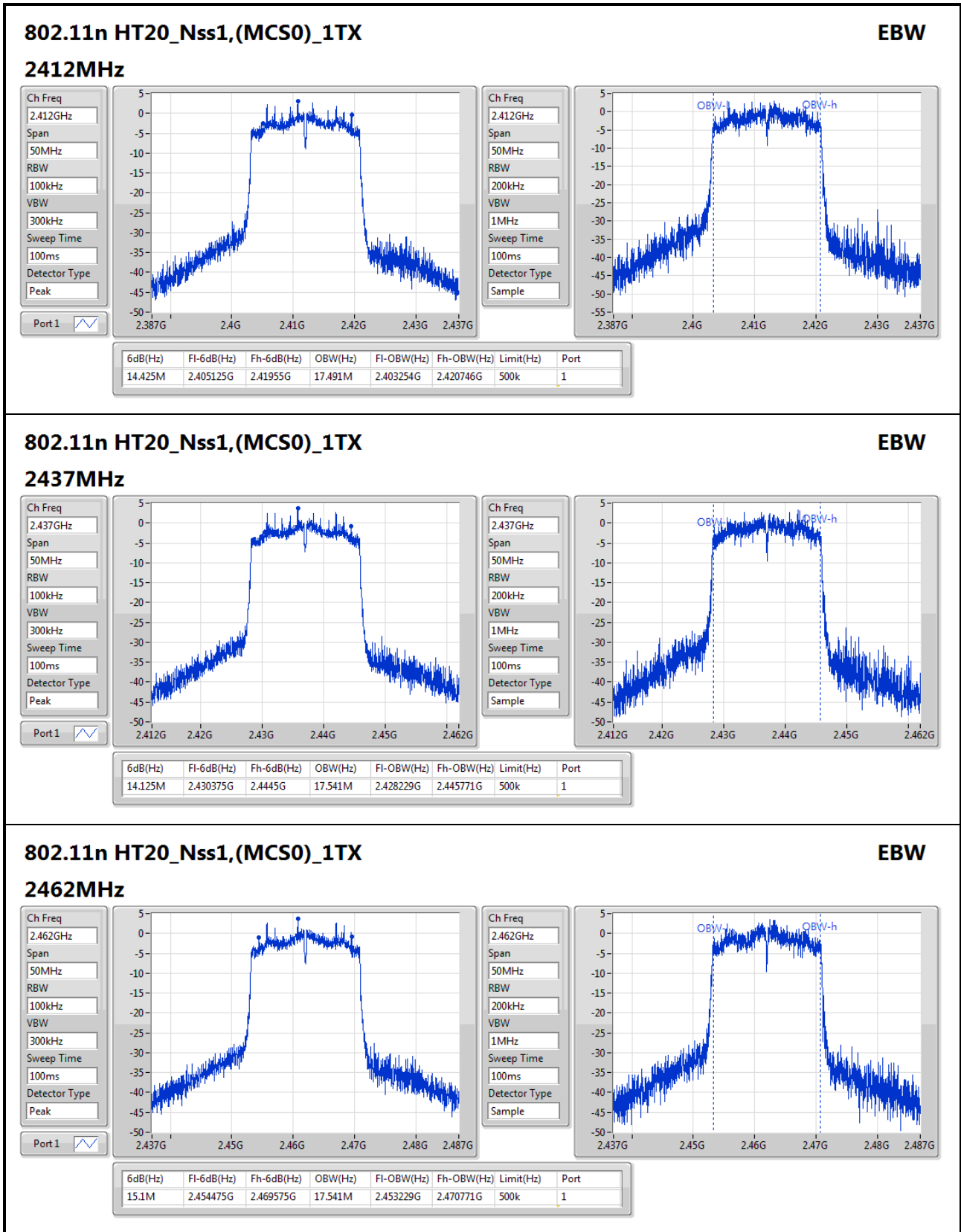
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	7.525M	12.194M
2437MHz	Pass	500k	7.55M	12.094M
2462MHz	Pass	500k	8.025M	12.069M
802.11g_(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	14.45M	16.392M
2437MHz	Pass	500k	15.325M	16.367M
2462MHz	Pass	500k	14.8M	16.367M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	14.425M	17.491M
2437MHz	Pass	500k	14.125M	17.541M
2462MHz	Pass	500k	15.1M	17.541M

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









Summary

Mode	Total Power (dBm)	Total Power (W)
802.11b_(1Mbps)_1TX	-	-
2.4-2.4835GHz	18.86	0.07691
802.11g_(6Mbps)_1TX	-	-
2.4-2.4835GHz	14.50	0.02818
802.11n HT20_Nss1,(MCS0)_1TX	-	-
2.4-2.4835GHz	13.68	0.02333

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	0.83	18.50	18.50	30.00
2437MHz	Pass	0.83	18.86	18.86	30.00
2462MHz	Pass	0.83	18.82	18.82	30.00
802.11g_(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	0.83	14.04	14.04	30.00
2437MHz	Pass	0.83	14.07	14.07	30.00
2462MHz	Pass	0.83	14.50	14.50	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	0.83	13.33	13.33	30.00
2437MHz	Pass	0.83	13.58	13.58	30.00
2462MHz	Pass	0.83	13.68	13.68	30.00

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



Summary

Mode	PD (dBm/RBW)
802.11b_(1Mbps)_1TX	-
2.4-2.4835GHz	-3.35
802.11g_(6Mbps)_1TX	-
2.4-2.4835GHz	-10.34
802.11n HT20_Nss1,(MCS0)_1TX	-
2.4-2.4835GHz	-11.38

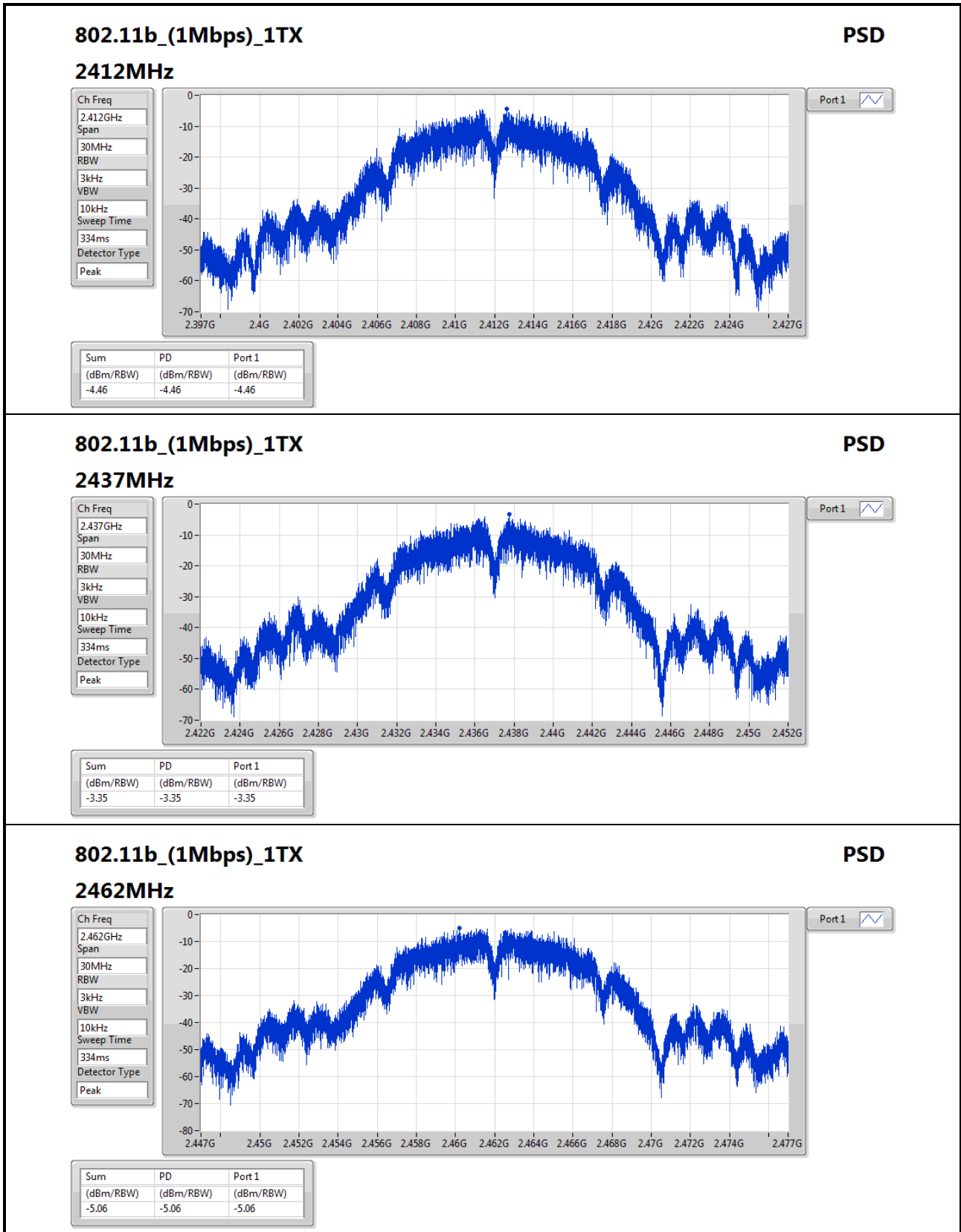
RBW=3kHz.

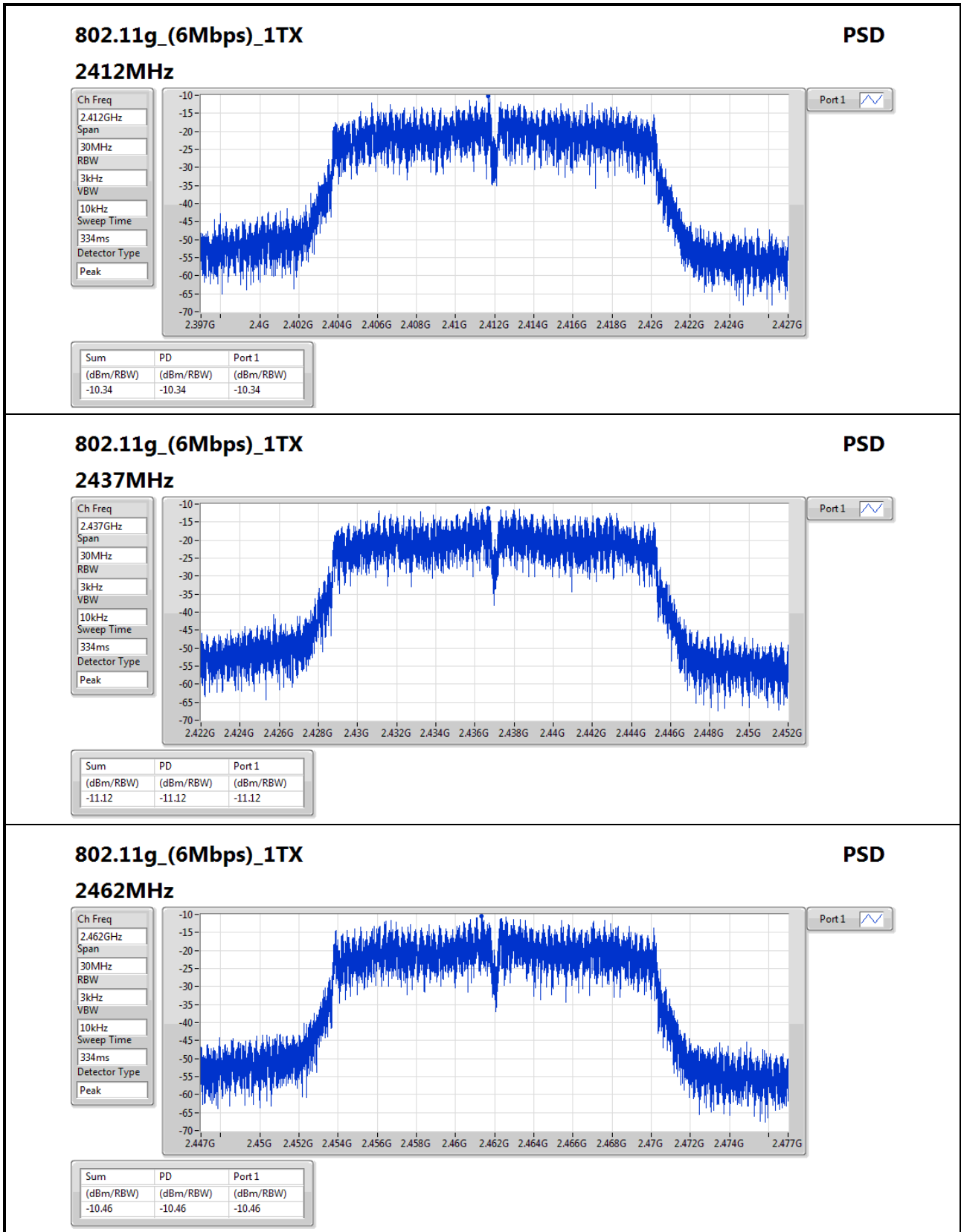
Result

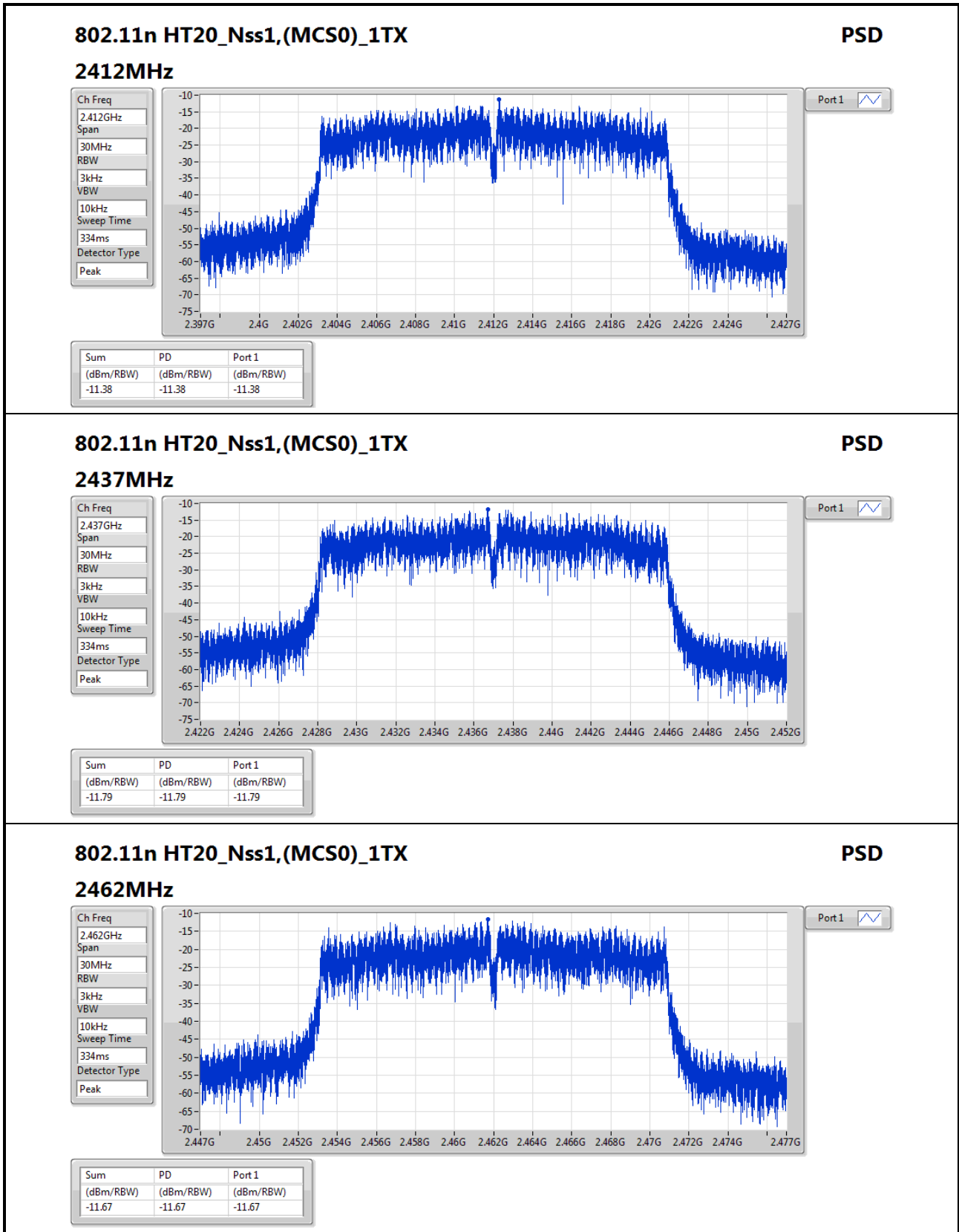
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	0.83	-4.46	-4.46	8.00
2437MHz	Pass	0.83	-3.35	-3.35	8.00
2462MHz	Pass	0.83	-5.06	-5.06	8.00
802.11g_(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	0.83	-10.34	-10.34	8.00
2437MHz	Pass	0.83	-11.12	-11.12	8.00
2462MHz	Pass	0.83	-10.46	-10.46	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	0.83	-11.38	-11.38	8.00
2437MHz	Pass	0.83	-11.79	-11.79	8.00
2462MHz	Pass	0.83	-11.67	-11.67	8.00

DG = Directional Gain; RBW=3kHz;

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







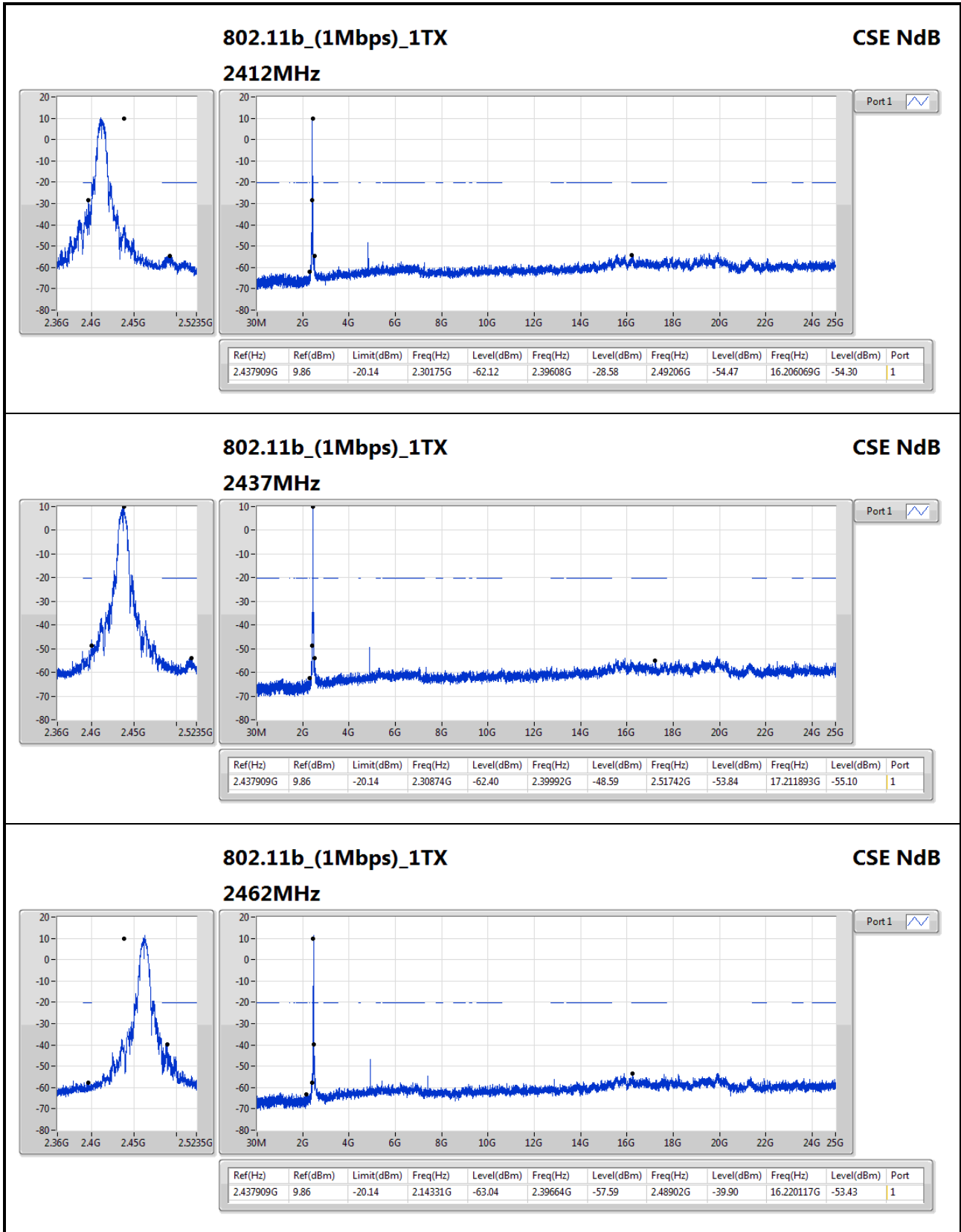


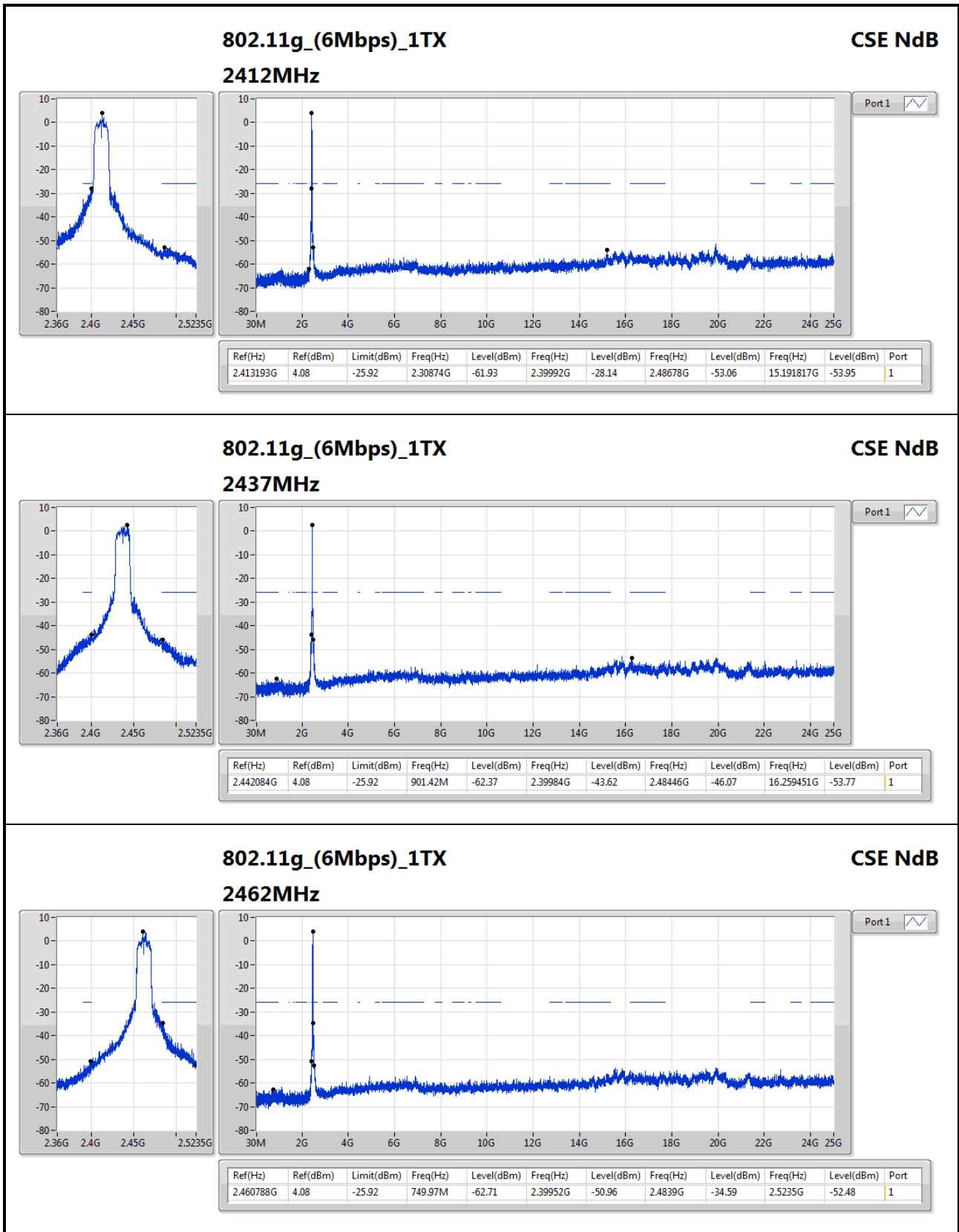
Summary

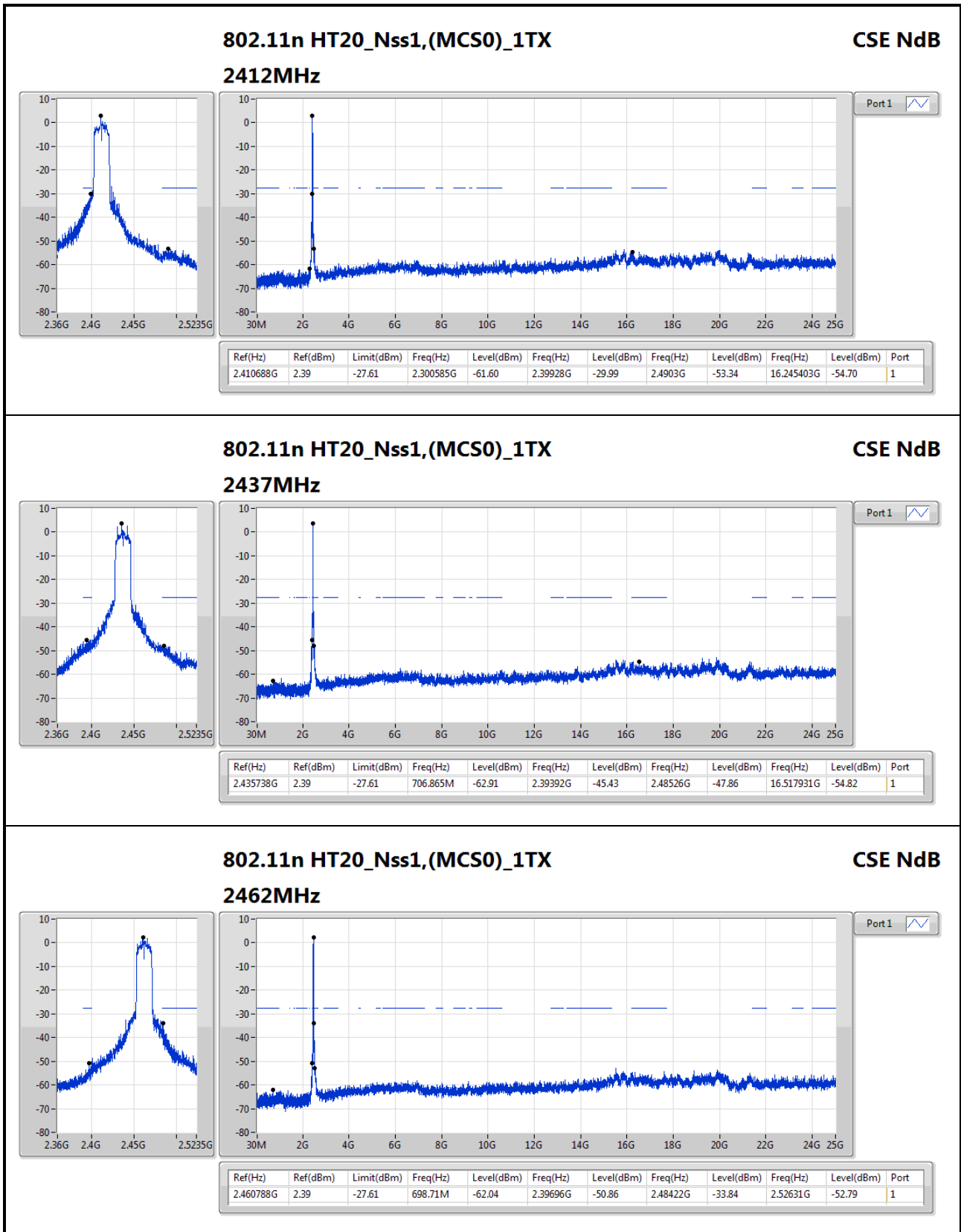
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11g_(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	2.413193G	4.08	-25.92	2.30874G	-61.93	2.39992G	-28.14	2.48678G	-53.06	15.191817G	-53.95	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.437909G	9.86	-20.14	2.30175G	-62.12	2.39608G	-28.58	2.49206G	-54.47	16.206069G	-54.30	1
2437MHz	Pass	2.437909G	9.86	-20.14	2.30874G	-62.40	2.39992G	-48.59	2.51742G	-53.84	17.211893G	-55.10	1
2462MHz	Pass	2.437909G	9.86	-20.14	2.14331G	-63.04	2.39664G	-57.59	2.48902G	-39.90	16.220117G	-53.43	1
802.11g_(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.413193G	4.08	-25.92	2.30874G	-61.93	2.39992G	-28.14	2.48678G	-53.06	15.191817G	-53.95	1
2437MHz	Pass	2.442084G	4.08	-25.92	901.42M	-62.37	2.39984G	-43.62	2.48446G	-46.07	16.259451G	-53.77	1
2462MHz	Pass	2.460788G	4.08	-25.92	749.97M	-62.71	2.39952G	-50.96	2.4839G	-34.59	2.5235G	-52.48	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.410688G	2.39	-27.61	2.300585G	-61.60	2.39928G	-29.99	2.4903G	-53.34	16.245403G	-54.70	1
2437MHz	Pass	2.435738G	2.39	-27.61	706.865M	-62.91	2.39392G	-45.43	2.48526G	-47.86	16.517931G	-54.82	1
2462MHz	Pass	2.460788G	2.39	-27.61	698.71M	-62.04	2.39696G	-50.86	2.48422G	-33.84	2.52631G	-52.79	1









Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	PK	792.42M	42.68	46.00	-3.32	-5.75	3	H	360	2.00	-

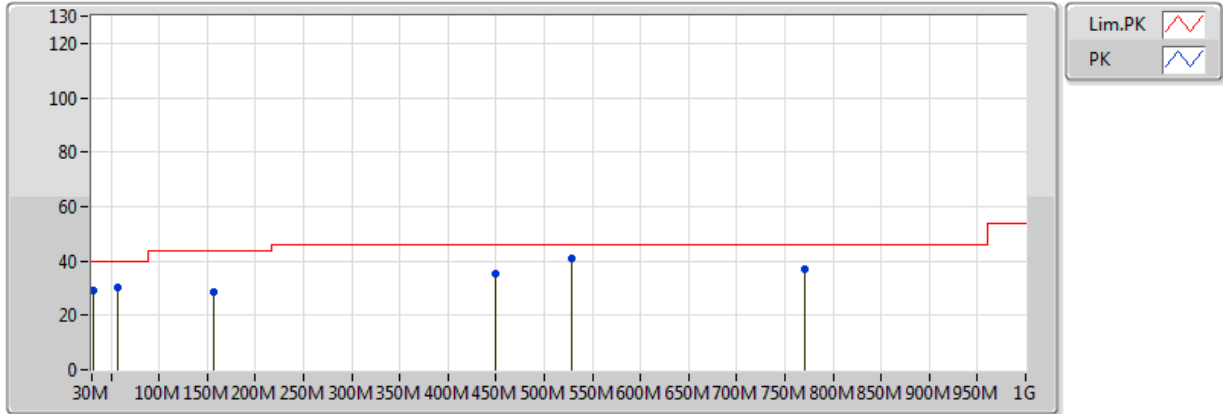


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	101.78M	23.93	43.50	-19.57	-20.14	3	H	360	2.00	-
2437MHz	Pass	PK	154.16M	27.61	43.50	-15.89	-18.68	3	H	360	2.00	-
2437MHz	Pass	PK	194.9M	26.94	43.50	-16.56	-20.28	3	H	360	2.00	-
2437MHz	Pass	PK	449.04M	37.11	46.00	-8.89	-11.22	3	H	360	2.00	-
2437MHz	Pass	PK	749.74M	40.27	46.00	-5.73	-6.28	3	H	360	2.00	-
2437MHz	Pass	PK	792.42M	42.68	46.00	-3.32	-5.75	3	H	360	2.00	-
2437MHz	Pass	PK	31.94M	28.88	40.00	-11.12	-14.81	3	V	0	1.00	-
2437MHz	Pass	PK	57.16M	30.23	40.00	-9.77	-24.77	3	V	0	1.00	-
2437MHz	Pass	PK	156.1M	28.33	43.50	-15.17	-18.77	3	V	0	1.00	-
2437MHz	Pass	PK	449.04M	35.21	46.00	-10.79	-11.22	3	V	0	1.00	-
2437MHz	Pass	PK	528.58M	40.78	46.00	-5.22	-9.95	3	V	0	1.00	-
2437MHz	Pass	PK	771.08M	36.73	46.00	-9.27	-5.97	3	V	0	1.00	-
2437MHz	Pass	PK	167.74M	37.34	43.50	-6.16	-19.57	3	H	0	1.00	-
2437MHz	Pass	PK	249.22M	29.36	46.00	-16.64	-16.47	3	H	0	1.00	-
2437MHz	Pass	PK	299.66M	28.28	46.00	-17.72	-15.32	3	H	0	1.00	-
2437MHz	Pass	PK	449.04M	37.51	46.00	-8.49	-11.22	3	H	0	1.00	-
2437MHz	Pass	PK	549.92M	33.95	46.00	-12.05	-8.92	3	H	0	1.00	-
2437MHz	Pass	PK	749.74M	37.76	46.00	-8.24	-6.28	3	H	0	1.00	-
2437MHz	Pass	PK	144.46M	27.17	43.50	-16.33	-18.41	3	V	230	1.00	-
2437MHz	Pass	PK	165.8M	29.78	43.50	-13.72	-19.42	3	V	230	1.00	-
2437MHz	Pass	PK	192.96M	29.04	43.50	-14.46	-20.34	3	V	230	1.00	-
2437MHz	Pass	PK	449.04M	35.59	46.00	-10.41	-11.22	3	V	230	1.00	-
2437MHz	Pass	PK	528.58M	31.44	46.00	-14.56	-9.95	3	V	230	1.00	-
2437MHz	Pass	PK	549.92M	34.61	46.00	-11.39	-8.92	3	V	230	1.00	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_Adapter

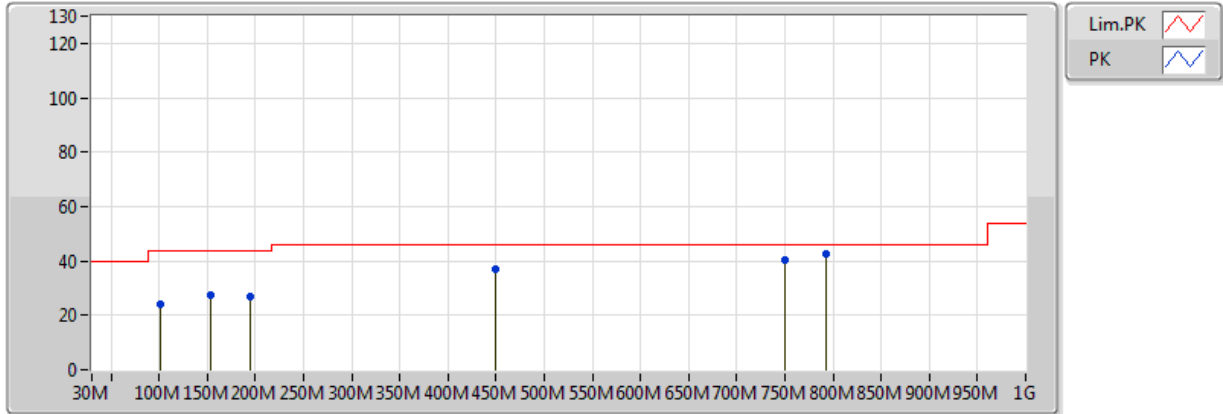


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	31.94M	28.88	40.00	-11.12	-14.81	3	V	0	1.00	-
PK	57.16M	30.23	40.00	-9.77	-24.77	3	V	0	1.00	-
PK	156.1M	28.33	43.50	-15.17	-18.77	3	V	0	1.00	-
PK	449.04M	35.21	46.00	-10.79	-11.22	3	V	0	1.00	-
PK	528.58M	40.78	46.00	-5.22	-9.95	3	V	0	1.00	-
PK	771.08M	36.73	46.00	-9.27	-5.97	3	V	0	1.00	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_Adpater

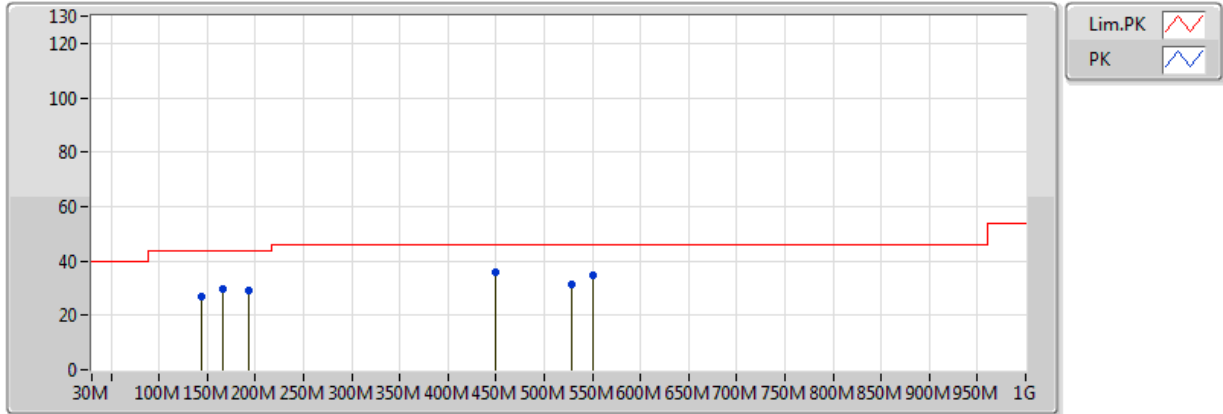


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	101.78M	23.93	43.50	-19.57	-20.14	3	H	360	2.00	-
PK	154.16M	27.61	43.50	-15.89	-18.68	3	H	360	2.00	-
PK	194.9M	26.94	43.50	-16.56	-20.28	3	H	360	2.00	-
PK	449.04M	37.11	46.00	-8.89	-11.22	3	H	360	2.00	-
PK	749.74M	40.27	46.00	-5.73	-6.28	3	H	360	2.00	-
PK	792.42M	42.68	46.00	-3.32	-5.75	3	H	360	2.00	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_USB cable

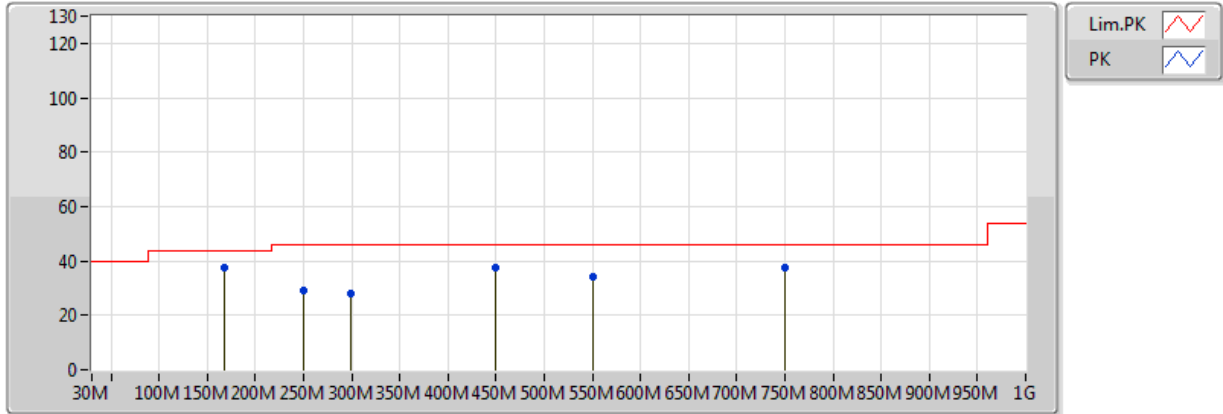


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	165.8M	29.78	43.50	-13.72	-19.42	3	V	230	1.00	-
PK	192.96M	29.04	43.50	-14.46	-20.34	3	V	230	1.00	-
PK	144.46M	27.17	43.50	-16.33	-18.41	3	V	230	1.00	-
PK	449.04M	35.59	46.00	-10.41	-11.22	3	V	230	1.00	-
PK	549.92M	34.61	46.00	-11.39	-8.92	3	V	230	1.00	-
PK	528.58M	31.44	46.00	-14.56	-9.95	3	V	230	1.00	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_USB cable



Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	167.74M	37.34	43.50	-6.16	-19.57	3	H	0	1.00	-
PK	249.22M	29.36	46.00	-16.64	-16.47	3	H	0	1.00	-
PK	299.66M	28.28	46.00	-17.72	-15.32	3	H	0	1.00	-
PK	449.04M	37.51	46.00	-8.49	-11.22	3	H	0	1.00	-
PK	549.92M	33.95	46.00	-12.05	-8.92	3	H	0	1.00	-
PK	749.74M	37.76	46.00	-8.24	-6.28	3	H	0	1.00	-



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11g_(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	2.39G	52.08	54.00	-1.92	31.19	3	H	82	1.01	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11b_(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3864G	49.51	54.00	-4.49	31.18	3	H	274	1.15	-
2412MHz	Pass	AV	2.411G	95.09	Inf	-Inf	31.27	3	H	274	1.15	-
2412MHz	Pass	PK	2.3858G	60.30	74.00	-13.70	31.18	3	H	274	1.15	-
2412MHz	Pass	PK	2.412G	98.29	Inf	-Inf	31.27	3	H	274	1.15	-
2412MHz	Pass	AV	2.3862G	47.68	54.00	-6.32	31.18	3	V	44	1.25	-
2412MHz	Pass	AV	2.411G	92.53	Inf	-Inf	31.27	3	V	44	1.25	-
2412MHz	Pass	PK	2.3876G	58.26	74.00	-15.74	31.18	3	V	44	1.25	-
2412MHz	Pass	PK	2.412G	95.68	Inf	-Inf	31.27	3	V	44	1.25	-
2412MHz	Pass	AV	4.824G	34.43	54.00	-19.57	3.77	3	H	99	2.08	-
2412MHz	Pass	PK	4.824G	44.82	74.00	-29.18	3.77	3	H	99	2.08	-
2412MHz	Pass	AV	4.824G	38.63	54.00	-15.37	3.77	3	V	300	1.01	-
2412MHz	Pass	PK	4.824G	46.95	74.00	-27.05	3.77	3	V	300	1.01	-
2437MHz	Pass	AV	2.3882G	46.53	54.00	-7.47	31.19	3	H	12	1.46	-
2437MHz	Pass	AV	2.4362G	94.09	Inf	-Inf	31.36	3	H	12	1.46	-
2437MHz	Pass	AV	2.4998G	47.38	54.00	-6.62	31.59	3	H	12	1.46	-
2437MHz	Pass	PK	2.3702G	58.82	74.00	-15.18	31.12	3	H	12	1.46	-
2437MHz	Pass	PK	2.437G	97.26	Inf	-Inf	31.36	3	H	12	1.46	-
2437MHz	Pass	PK	2.4962G	58.59	74.00	-15.41	31.58	3	H	12	1.46	-
2437MHz	Pass	AV	2.3798G	46.52	54.00	-7.48	31.16	3	V	340	1.49	-
2437MHz	Pass	AV	2.4362G	93.42	Inf	-Inf	31.36	3	V	340	1.49	-
2437MHz	Pass	AV	2.4998G	47.41	54.00	-6.59	31.59	3	V	340	1.49	-
2437MHz	Pass	PK	2.3858G	57.28	74.00	-16.72	31.18	3	V	340	1.49	-
2437MHz	Pass	PK	2.437G	96.62	Inf	-Inf	31.36	3	V	340	1.49	-
2437MHz	Pass	PK	2.495G	58.63	74.00	-15.37	31.57	3	V	340	1.49	-
2437MHz	Pass	AV	4.874G	35.54	54.00	-18.46	3.85	3	H	170	2.62	-
2437MHz	Pass	PK	4.874G	44.98	74.00	-29.02	3.85	3	H	170	2.62	-
2437MHz	Pass	AV	4.874G	39.23	54.00	-14.77	3.85	3	V	306	1.00	-
2437MHz	Pass	PK	4.874G	46.11	74.00	-27.89	3.85	3	V	306	1.00	-
2462MHz	Pass	AV	2.4612G	94.36	Inf	-Inf	31.45	3	H	86	1.01	-
2462MHz	Pass	AV	2.488G	48.69	54.00	-5.31	31.55	3	H	86	1.01	-
2462MHz	Pass	PK	2.462G	97.65	Inf	-Inf	31.45	3	H	86	1.01	-
2462MHz	Pass	PK	2.4876G	59.41	74.00	-14.59	31.55	3	H	86	1.01	-
2462MHz	Pass	AV	2.4612G	94.00	Inf	-Inf	31.45	3	V	344	1.05	-
2462MHz	Pass	AV	2.4876G	49.09	54.00	-4.91	31.55	3	V	344	1.05	-
2462MHz	Pass	PK	2.462G	97.26	Inf	-Inf	31.45	3	V	344	1.05	-
2462MHz	Pass	PK	2.499G	59.81	74.00	-14.19	31.59	3	V	344	1.05	-
2462MHz	Pass	AV	4.924G	33.64	54.00	-20.36	3.92	3	H	328	2.81	-
2462MHz	Pass	PK	4.924G	44.01	74.00	-29.99	3.92	3	H	328	2.81	-
2462MHz	Pass	AV	4.924G	41.66	54.00	-12.34	3.92	3	V	313	1.00	-
2462MHz	Pass	PK	4.924G	47.90	74.00	-26.10	3.92	3	V	313	1.00	-
802.11g_(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	52.08	54.00	-1.92	31.19	3	H	82	1.01	-
2412MHz	Pass	AV	2.4112G	90.34	Inf	-Inf	31.27	3	H	82	1.01	-
2412MHz	Pass	PK	2.3898G	66.73	74.00	-7.27	31.19	3	H	82	1.01	-
2412MHz	Pass	PK	2.4122G	99.44	Inf	-Inf	31.27	3	H	82	1.01	-
2412MHz	Pass	AV	2.39G	48.18	54.00	-5.82	31.19	3	V	344	1.46	-
2412MHz	Pass	AV	2.413G	86.59	Inf	-Inf	31.28	3	V	344	1.46	-



RSE TX above 1GHz Result

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
2412MHz	Pass	PK	2.3894G	59.96	74.00	-14.04	31.19	3	V	344	1.46	-
2412MHz	Pass	PK	2.4118G	96.24	Inf	-Inf	31.27	3	V	344	1.46	-
2412MHz	Pass	AV	4.824G	34.27	54.00	-19.73	3.77	3	H	360	1.50	-
2412MHz	Pass	PK	4.824G	46.13	74.00	-27.87	3.77	3	H	360	1.50	-
2412MHz	Pass	AV	4.824G	34.39	54.00	-19.61	3.77	3	V	0	1.50	-
2412MHz	Pass	PK	4.824G	45.91	74.00	-28.09	3.77	3	V	0	1.50	-
2437MHz	Pass	AV	2.3894G	47.17	54.00	-6.83	31.19	3	H	87	1.26	-
2437MHz	Pass	AV	2.4378G	89.10	Inf	-Inf	31.37	3	H	87	1.26	-
2437MHz	Pass	AV	2.4874G	47.54	54.00	-6.46	31.54	3	H	87	1.26	-
2437MHz	Pass	PK	2.389G	58.37	74.00	-15.63	31.19	3	H	87	1.26	-
2437MHz	Pass	PK	2.437G	98.67	Inf	-Inf	31.36	3	H	87	1.26	-
2437MHz	Pass	PK	2.485G	58.34	74.00	-15.66	31.54	3	H	87	1.26	-
2437MHz	Pass	AV	2.3866G	46.79	54.00	-7.21	31.18	3	V	336	1.50	-
2437MHz	Pass	AV	2.4362G	87.98	Inf	-Inf	31.36	3	V	336	1.50	-
2437MHz	Pass	AV	2.4882G	47.68	54.00	-6.32	31.55	3	V	336	1.50	-
2437MHz	Pass	PK	2.385G	57.84	74.00	-16.16	31.17	3	V	336	1.50	-
2437MHz	Pass	PK	2.437G	97.77	Inf	-Inf	31.36	3	V	336	1.50	-
2437MHz	Pass	PK	2.497G	59.45	74.00	-14.55	31.58	3	V	336	1.50	-
2437MHz	Pass	AV	4.874G	33.78	54.00	-20.22	3.85	3	H	360	1.50	-
2437MHz	Pass	PK	4.874G	45.57	74.00	-28.43	3.85	3	H	360	1.50	-
2437MHz	Pass	AV	4.874G	33.86	54.00	-20.14	3.85	3	V	0	1.50	-
2437MHz	Pass	PK	4.874G	46.07	74.00	-27.93	3.85	3	V	0	1.50	-
2462MHz	Pass	AV	2.4612G	89.69	Inf	-Inf	31.45	3	H	83	1.01	-
2462MHz	Pass	AV	2.484G	50.86	54.00	-3.14	31.53	3	H	83	1.01	-
2462MHz	Pass	PK	2.4622G	99.57	Inf	-Inf	31.45	3	H	83	1.01	-
2462MHz	Pass	PK	2.4838G	66.38	74.00	-7.62	31.53	3	H	83	1.01	-
2462MHz	Pass	AV	2.463G	89.42	Inf	-Inf	31.46	3	V	346	1.26	-
2462MHz	Pass	AV	2.4838G	51.65	54.00	-2.35	31.53	3	V	346	1.26	-
2462MHz	Pass	PK	2.462G	97.71	Inf	-Inf	31.45	3	V	346	1.26	-
2462MHz	Pass	PK	2.4844G	65.63	74.00	-8.37	31.53	3	V	346	1.26	-
2462MHz	Pass	AV	4.924G	32.03	54.00	-21.97	3.92	3	H	360	1.50	-
2462MHz	Pass	PK	4.924G	43.78	74.00	-30.22	3.92	3	H	360	1.50	-
2462MHz	Pass	AV	4.924G	32.50	54.00	-21.50	3.92	3	V	0	1.50	-
2462MHz	Pass	PK	4.924G	43.75	74.00	-30.25	3.92	3	V	0	1.50	-
802.11n HT20_Nss1_(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	51.36	54.00	-2.64	31.19	3	H	80	1.01	-
2412MHz	Pass	AV	2.4112G	89.60	Inf	-Inf	31.27	3	H	80	1.01	-
2412MHz	Pass	PK	2.39G	66.84	74.00	-7.16	31.19	3	H	80	1.01	-
2412MHz	Pass	PK	2.4108G	98.46	Inf	-Inf	31.27	3	H	80	1.01	-
2412MHz	Pass	AV	2.39G	48.92	54.00	-5.08	31.19	3	V	318	1.01	-
2412MHz	Pass	AV	2.4112G	86.00	Inf	-Inf	31.27	3	V	318	1.01	-
2412MHz	Pass	PK	2.3898G	63.95	74.00	-10.05	31.19	3	V	318	1.01	-
2412MHz	Pass	PK	2.412G	94.54	Inf	-Inf	31.27	3	V	318	1.01	-
2412MHz	Pass	AV	4.824G	34.04	54.00	-19.96	3.77	3	H	360	1.50	-
2412MHz	Pass	PK	4.824G	45.95	74.00	-28.05	3.77	3	H	360	1.50	-
2412MHz	Pass	AV	4.824G	34.11	54.00	-19.89	3.77	3	V	0	1.50	-
2412MHz	Pass	PK	4.824G	46.03	74.00	-27.97	3.77	3	V	0	1.50	-
2437MHz	Pass	AV	2.3894G	47.17	54.00	-6.83	31.19	3	H	88	1.24	-
2437MHz	Pass	AV	2.4362G	88.45	Inf	-Inf	31.36	3	H	88	1.24	-



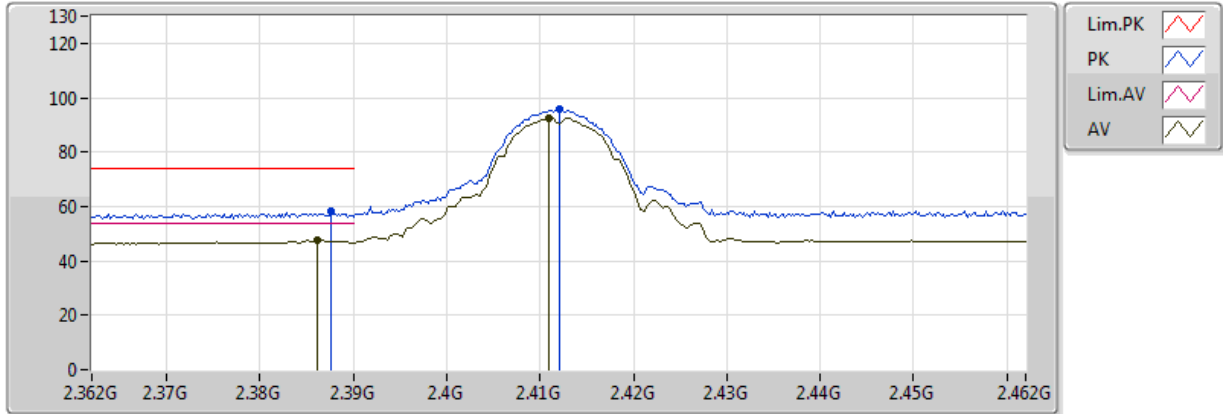
RSE TX above 1GHz Result

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	AV	2.4902G	47.56	54.00	-6.44	31.55	3	H	88	1.24	-
2437MHz	Pass	PK	2.3834G	57.96	74.00	-16.04	31.17	3	H	88	1.24	-
2437MHz	Pass	PK	2.437G	96.87	Inf	-Inf	31.36	3	H	88	1.24	-
2437MHz	Pass	PK	2.4938G	58.56	74.00	-15.44	31.57	3	H	88	1.24	-
2437MHz	Pass	AV	2.3898G	46.68	54.00	-7.32	31.19	3	V	341	1.50	-
2437MHz	Pass	AV	2.4378G	87.23	Inf	-Inf	31.37	3	V	341	1.50	-
2437MHz	Pass	AV	2.4858G	47.62	54.00	-6.38	31.54	3	V	341	1.50	-
2437MHz	Pass	PK	2.3866G	58.20	74.00	-15.80	31.18	3	V	341	1.50	-
2437MHz	Pass	PK	2.437G	95.66	Inf	-Inf	31.36	3	V	341	1.50	-
2437MHz	Pass	PK	2.4898G	58.75	74.00	-15.25	31.55	3	V	341	1.50	-
2437MHz	Pass	AV	4.874G	33.98	54.00	-20.02	3.85	3	H	360	1.50	-
2437MHz	Pass	PK	4.874G	44.69	74.00	-29.31	3.85	3	H	360	1.50	-
2437MHz	Pass	AV	4.874G	34.02	54.00	-19.98	3.85	3	V	0	1.50	-
2437MHz	Pass	PK	4.874G	45.28	74.00	-28.72	3.85	3	V	0	1.50	-
2462MHz	Pass	AV	2.4628G	88.86	Inf	-Inf	31.46	3	H	81	1.01	-
2462MHz	Pass	AV	2.4836G	50.53	54.00	-3.47	31.53	3	H	81	1.01	-
2462MHz	Pass	PK	2.4608G	97.77	Inf	-Inf	31.45	3	H	81	1.01	-
2462MHz	Pass	PK	2.4836G	67.31	74.00	-6.69	31.53	3	H	81	1.01	-
2462MHz	Pass	AV	2.463G	89.00	Inf	-Inf	31.46	3	V	345	1.01	-
2462MHz	Pass	AV	2.484G	51.29	54.00	-2.71	31.53	3	V	345	1.01	-
2462MHz	Pass	PK	2.463G	97.73	Inf	-Inf	31.46	3	V	345	1.01	-
2462MHz	Pass	PK	2.484G	67.50	74.00	-6.50	31.53	3	V	345	1.01	-
2462MHz	Pass	AV	4.924G	34.43	54.00	-19.57	3.92	3	H	0	1.50	-
2462MHz	Pass	PK	4.924G	45.36	74.00	-28.64	3.92	3	H	0	1.50	-
2462MHz	Pass	AV	4.924G	34.36	54.00	-19.64	3.92	3	V	360	1.50	-
2462MHz	Pass	PK	4.924G	46.47	74.00	-27.53	3.92	3	V	360	1.50	-

802.11b_(1Mbps)_1TX

2412MHz_TX

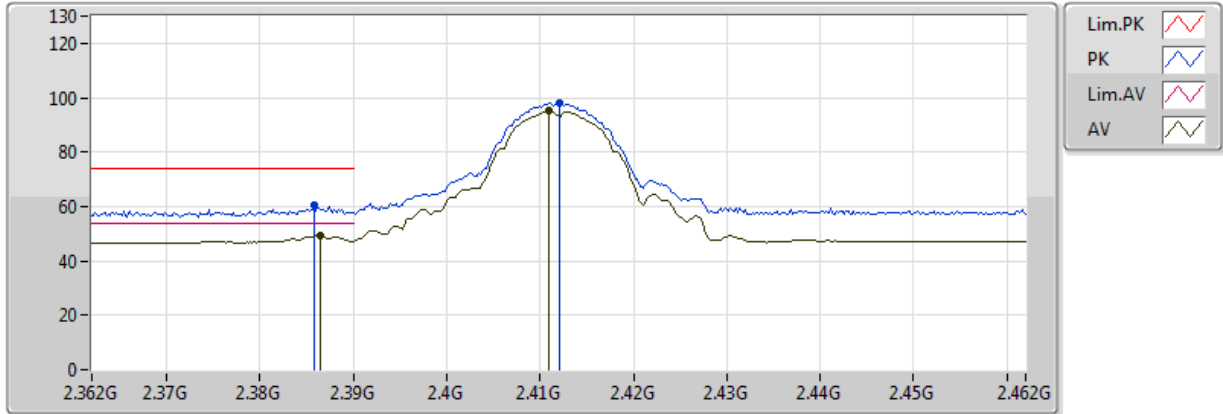


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3862G	47.68	54.00	-6.32	31.18	3	V	44	1.25	-
AV	2.411G	92.53	Inf	-Inf	31.27	3	V	44	1.25	-
PK	2.3876G	58.26	74.00	-15.74	31.18	3	V	44	1.25	-
PK	2.412G	95.68	Inf	-Inf	31.27	3	V	44	1.25	-

802.11b_(1Mbps)_1TX

2412MHz_TX

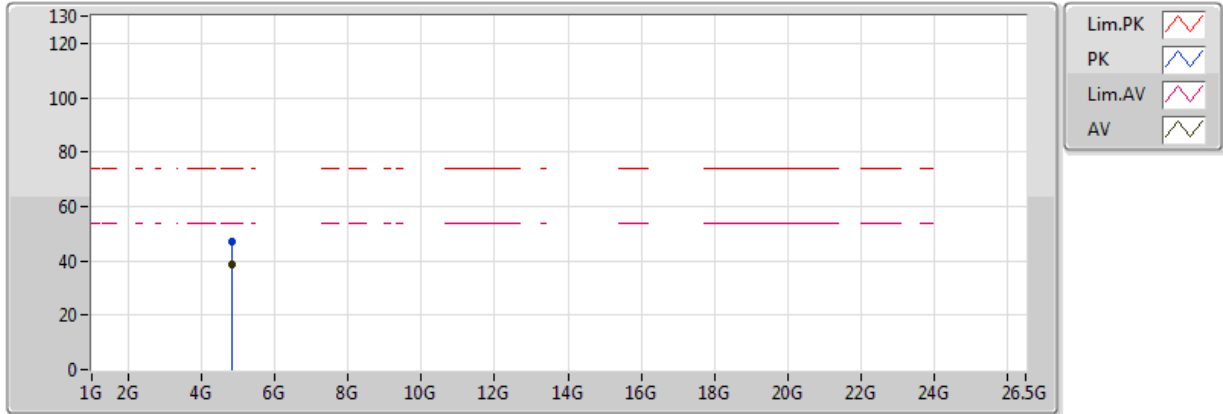


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3864G	49.51	54.00	-4.49	31.18	3	H	274	1.15	-
AV	2.411G	95.09	Inf	-Inf	31.27	3	H	274	1.15	-
PK	2.3858G	60.30	74.00	-13.70	31.18	3	H	274	1.15	-
PK	2.412G	98.29	Inf	-Inf	31.27	3	H	274	1.15	-

802.11b_(1Mbps)_1TX

2412MHz_TX

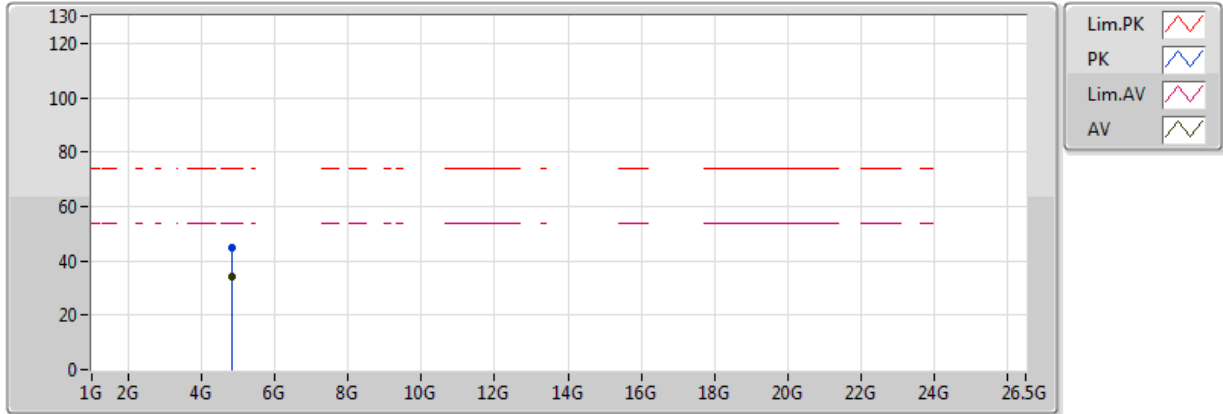


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.824G	38.63	54.00	-15.37	3.77	3	V	300	1.01	-
PK	4.824G	46.95	74.00	-27.05	3.77	3	V	300	1.01	-

802.11b_(1Mbps)_1TX

2412MHz_TX

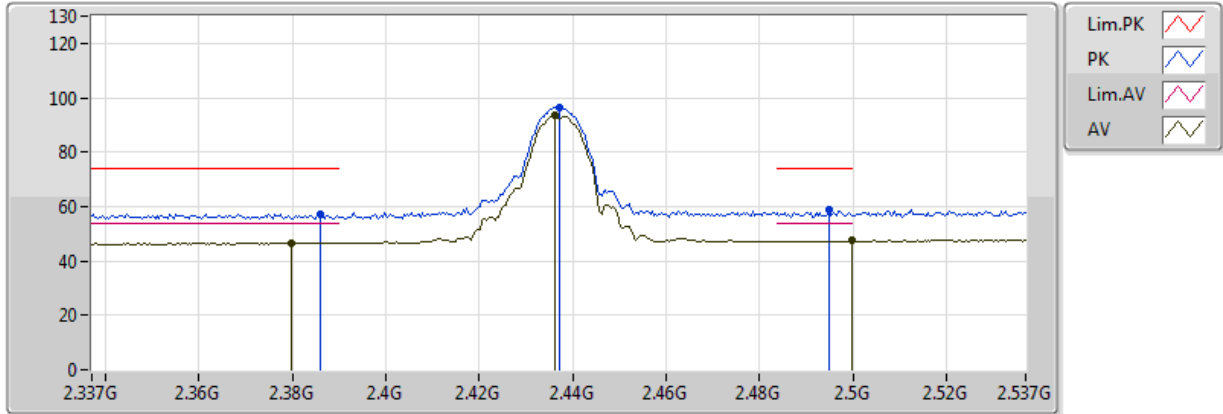


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.824G	34.43	54.00	-19.57	3.77	3	H	99	2.08	-
PK	4.824G	44.82	74.00	-29.18	3.77	3	H	99	2.08	-

802.11b_(1Mbps)_1TX

2437MHz_TX

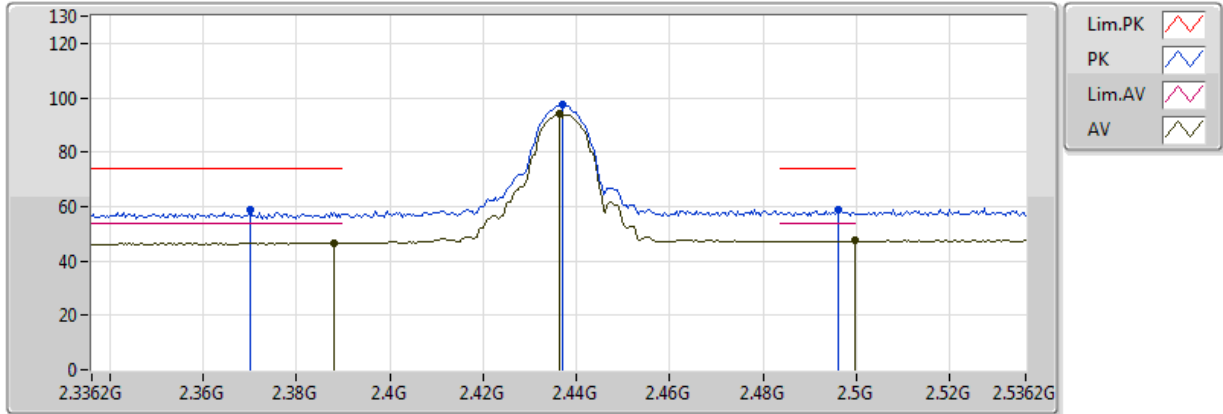


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3798G	46.52	54.00	-7.48	31.16	3	V	340	1.49	-
AV	2.4362G	93.42	Inf	-Inf	31.36	3	V	340	1.49	-
AV	2.4998G	47.41	54.00	-6.59	31.59	3	V	340	1.49	-
PK	2.3858G	57.28	74.00	-16.72	31.18	3	V	340	1.49	-
PK	2.437G	96.62	Inf	-Inf	31.36	3	V	340	1.49	-
PK	2.495G	58.63	74.00	-15.37	31.57	3	V	340	1.49	-

802.11b_(1Mbps)_1TX

2437MHz_TX

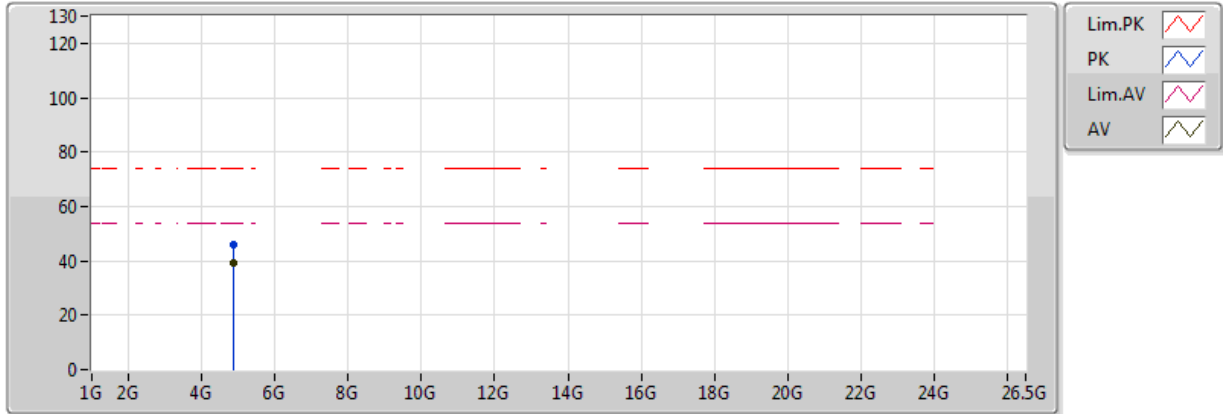


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3882G	46.53	54.00	-7.47	31.19	3	H	12	1.46	-
AV	2.4362G	94.09	Inf	-Inf	31.36	3	H	12	1.46	-
AV	2.4998G	47.38	54.00	-6.62	31.59	3	H	12	1.46	-
PK	2.3702G	58.82	74.00	-15.18	31.12	3	H	12	1.46	-
PK	2.437G	97.26	Inf	-Inf	31.36	3	H	12	1.46	-
PK	2.4962G	58.59	74.00	-15.41	31.58	3	H	12	1.46	-

802.11b_(1Mbps)_1TX

2437MHz_TX

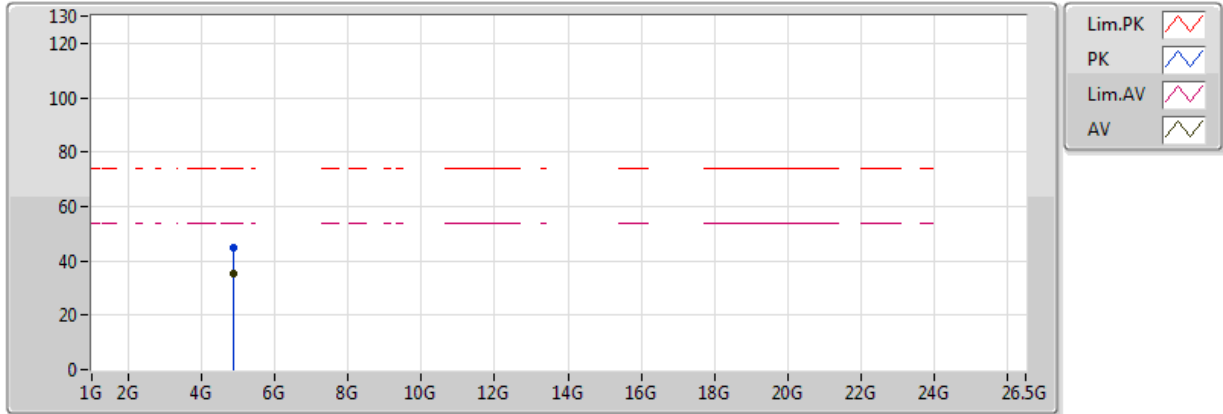


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.874G	39.23	54.00	-14.77	3.85	3	V	306	1.00	-
PK	4.874G	46.11	74.00	-27.89	3.85	3	V	306	1.00	-

802.11b_(1Mbps)_1TX

2437MHz_TX

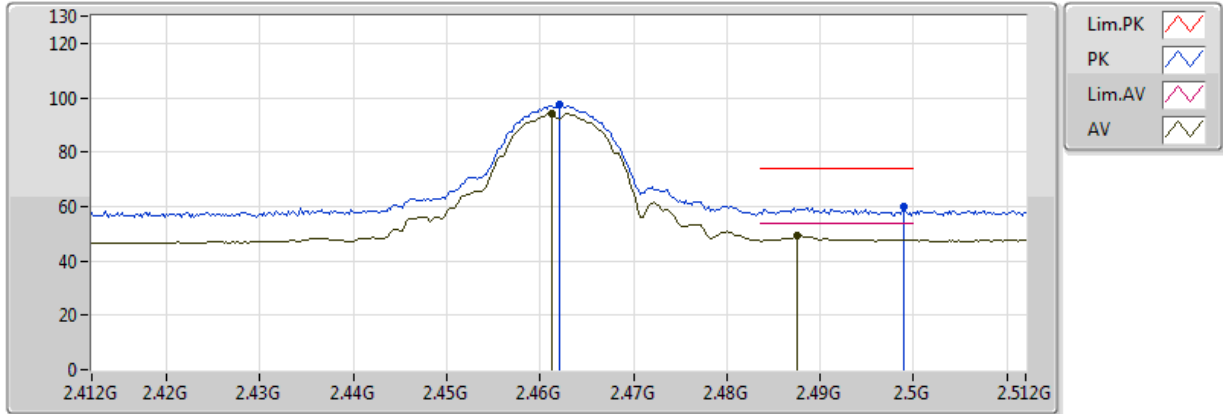


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.874G	35.54	54.00	-18.46	3.85	3	H	170	2.62	-
PK	4.874G	44.98	74.00	-29.02	3.85	3	H	170	2.62	-

802.11b_(1Mbps)_1TX

2462MHz_TX

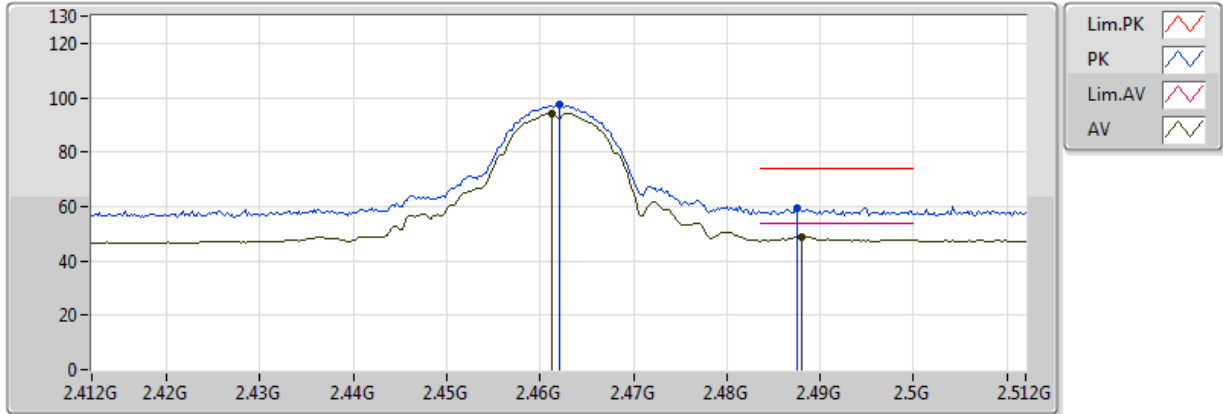


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4612G	94.00	Inf	-Inf	31.45	3	V	344	1.05	-
AV	2.4876G	49.09	54.00	-4.91	31.55	3	V	344	1.05	-
PK	2.462G	97.26	Inf	-Inf	31.45	3	V	344	1.05	-
PK	2.499G	59.81	74.00	-14.19	31.59	3	V	344	1.05	-

802.11b_(1Mbps)_1TX

2462MHz_TX

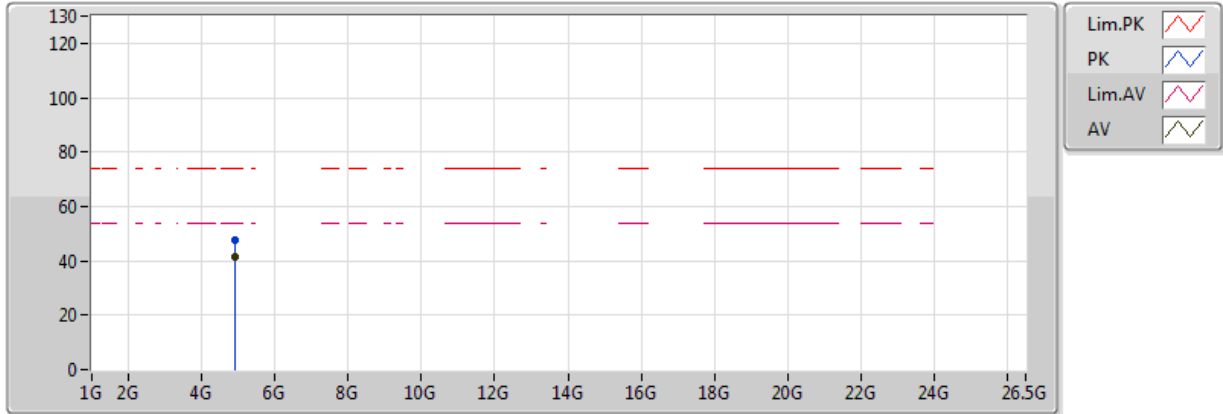


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4612G	94.36	Inf	-Inf	31.45	3	H	86	1.01	-
AV	2.488G	48.69	54.00	-5.31	31.55	3	H	86	1.01	-
PK	2.462G	97.65	Inf	-Inf	31.45	3	H	86	1.01	-
PK	2.4876G	59.41	74.00	-14.59	31.55	3	H	86	1.01	-

802.11b_(1Mbps)_1TX

2462MHz_TX

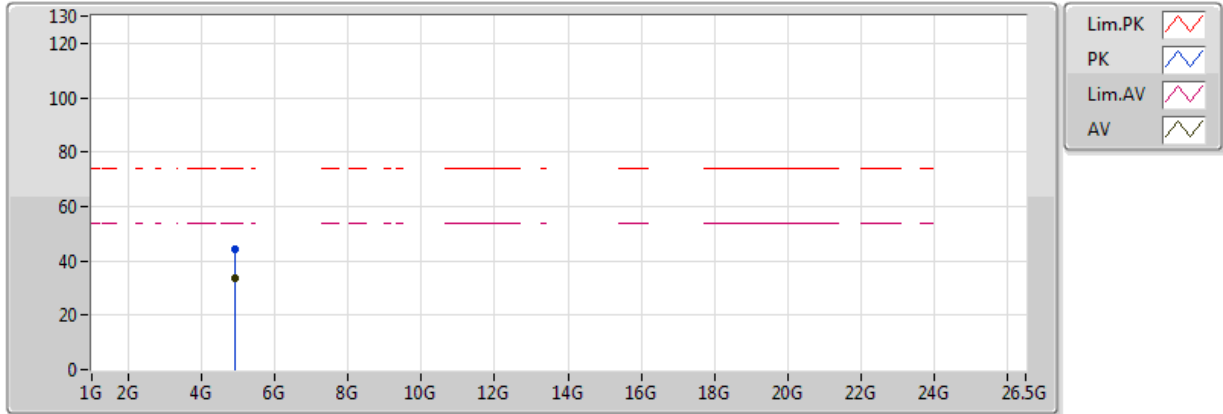


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.924G	41.66	54.00	-12.34	3.92	3	V	313	1.00	-
PK	4.924G	47.90	74.00	-26.10	3.92	3	V	313	1.00	-

802.11b_(1Mbps)_1TX

2462MHz_TX

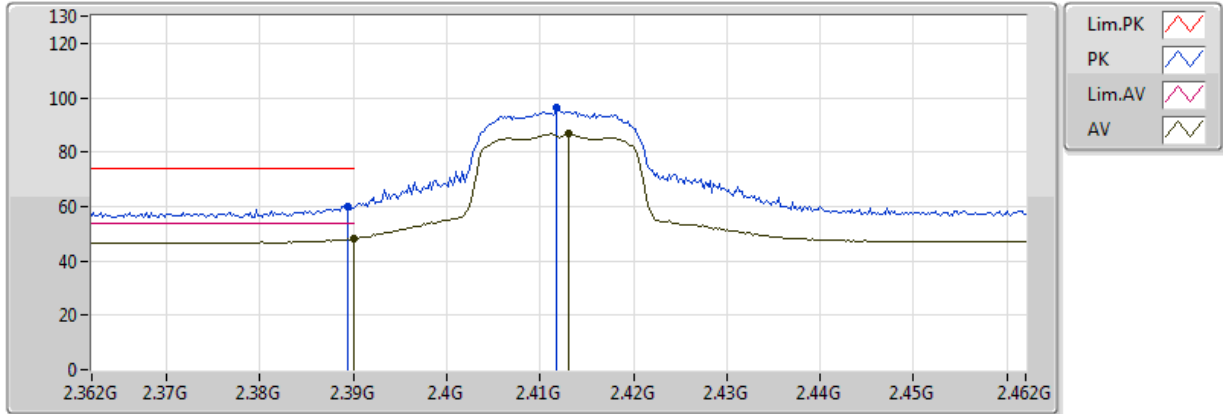


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.924G	33.64	54.00	-20.36	3.92	3	H	328	2.81	-
PK	4.924G	44.01	74.00	-29.99	3.92	3	H	328	2.81	-

802.11g_(6Mbps)_1TX

2412MHz_TX

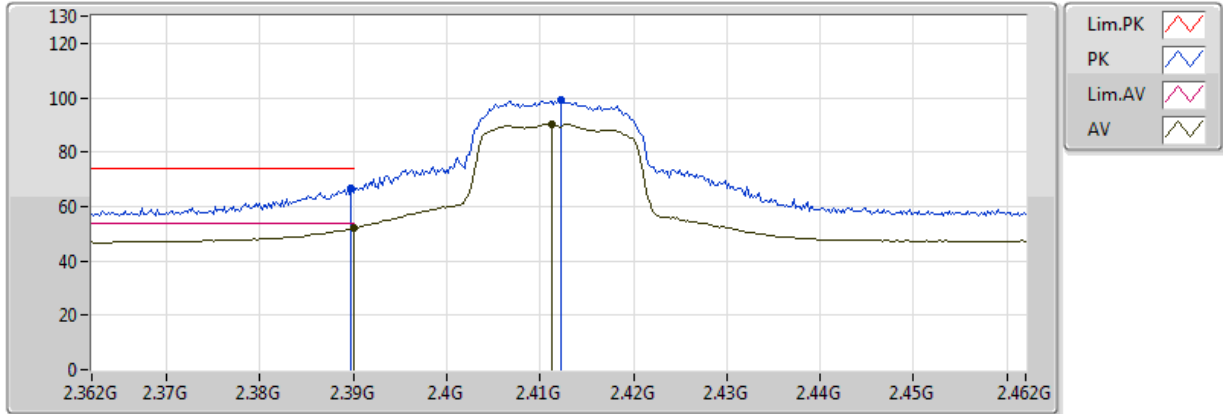


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	48.18	54.00	-5.82	31.19	3	V	344	1.46	-
AV	2.413G	86.59	Inf	-Inf	31.28	3	V	344	1.46	-
PK	2.3894G	59.96	74.00	-14.04	31.19	3	V	344	1.46	-
PK	2.4118G	96.24	Inf	-Inf	31.27	3	V	344	1.46	-

802.11g_(6Mbps)_1TX

2412MHz_TX

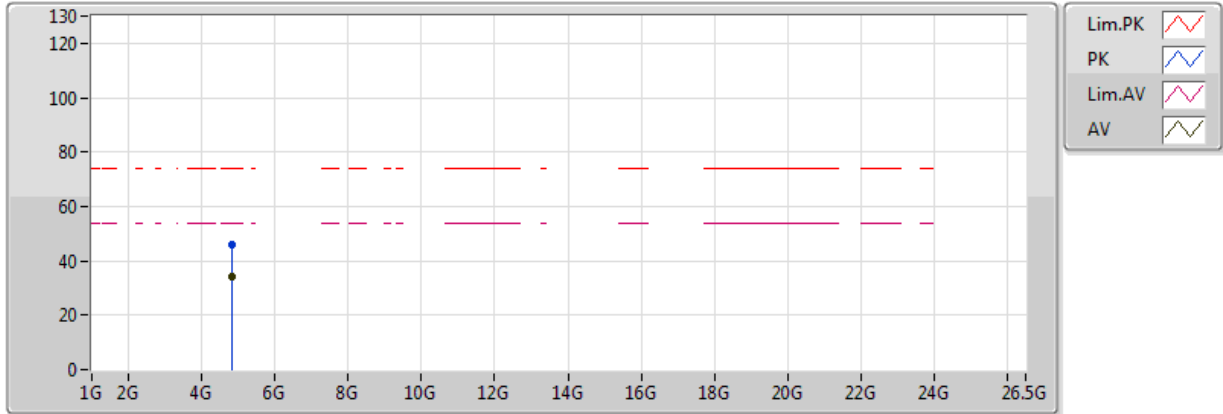


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	52.08	54.00	-1.92	31.19	3	H	82	1.01	-
AV	2.4112G	90.34	Inf	-Inf	31.27	3	H	82	1.01	-
PK	2.3898G	66.73	74.00	-7.27	31.19	3	H	82	1.01	-
PK	2.4122G	99.44	Inf	-Inf	31.27	3	H	82	1.01	-

802.11g_(6Mbps)_1TX

2412MHz_TX

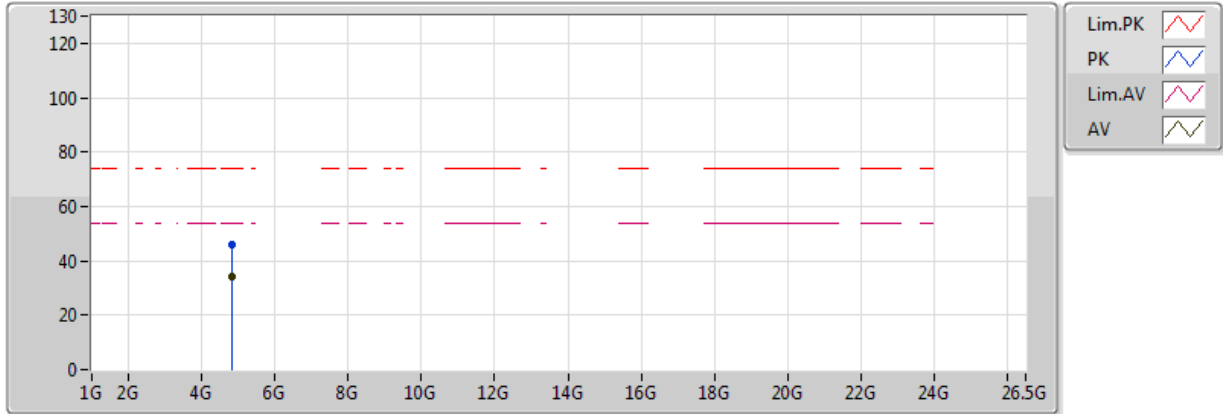


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.824G	34.39	54.00	-19.61	3.77	3	V	0	1.50	-
PK	4.824G	45.91	74.00	-28.09	3.77	3	V	0	1.50	-

802.11g_(6Mbps)_1TX

2412MHz_TX

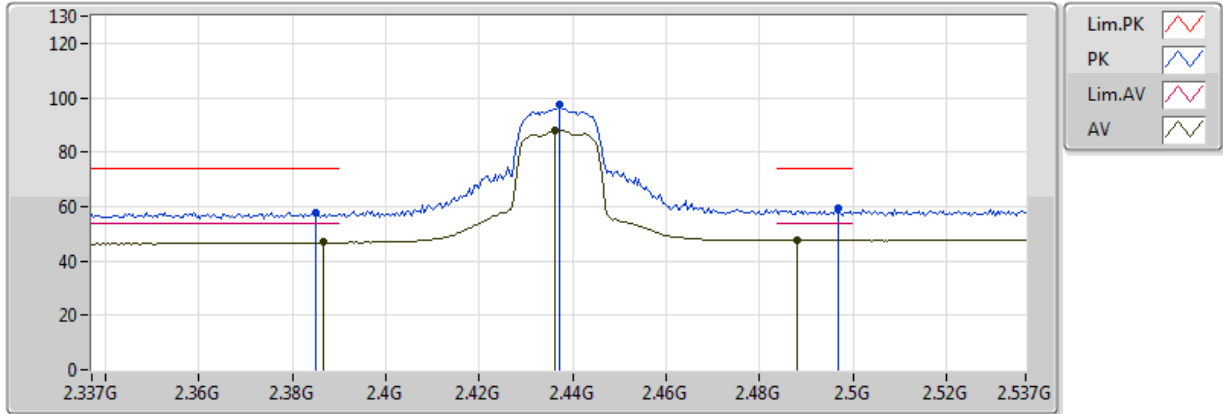


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.824G	34.27	54.00	-19.73	3.77	3	H	360	1.50	-
PK	4.824G	46.13	74.00	-27.87	3.77	3	H	360	1.50	-

802.11g_(6Mbps)_1TX

2437MHz_TX

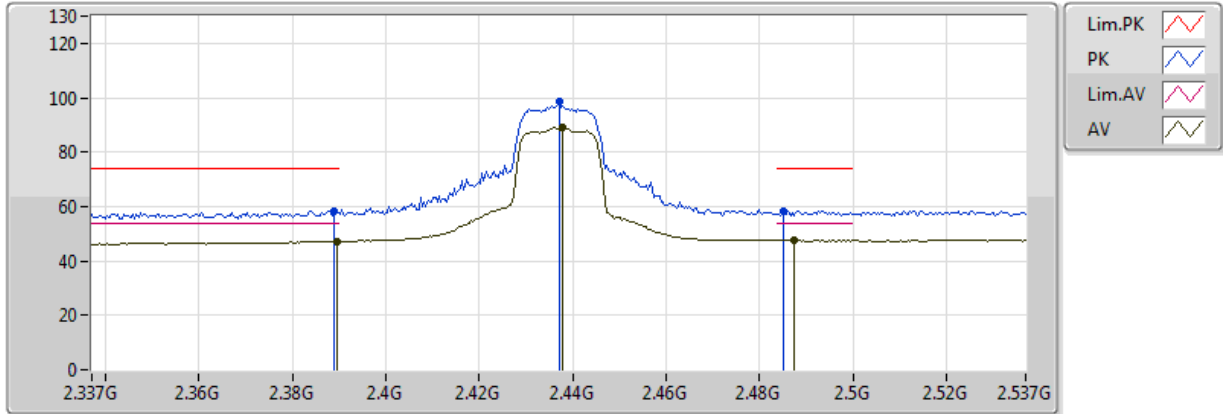


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3866G	46.79	54.00	-7.21	31.18	3	V	336	1.50	-
AV	2.4362G	87.98	Inf	-Inf	31.36	3	V	336	1.50	-
AV	2.4882G	47.68	54.00	-6.32	31.55	3	V	336	1.50	-
PK	2.385G	57.84	74.00	-16.16	31.17	3	V	336	1.50	-
PK	2.437G	97.77	Inf	-Inf	31.36	3	V	336	1.50	-
PK	2.497G	59.45	74.00	-14.55	31.58	3	V	336	1.50	-

802.11g_(6Mbps)_1TX

2437MHz_TX

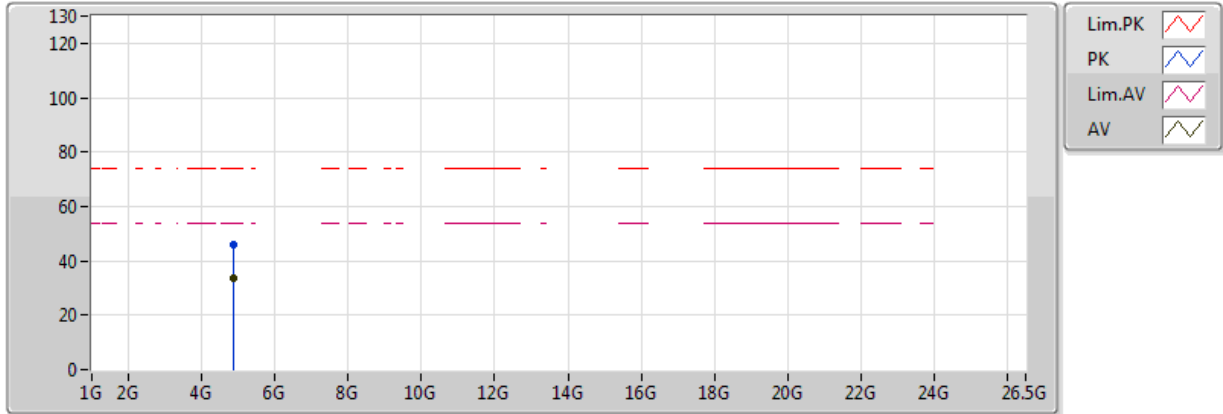


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3894G	47.17	54.00	-6.83	31.19	3	H	87	1.26	-
AV	2.4378G	89.10	Inf	-Inf	31.37	3	H	87	1.26	-
AV	2.4874G	47.54	54.00	-6.46	31.54	3	H	87	1.26	-
PK	2.389G	58.37	74.00	-15.63	31.19	3	H	87	1.26	-
PK	2.437G	98.67	Inf	-Inf	31.36	3	H	87	1.26	-
PK	2.485G	58.34	74.00	-15.66	31.54	3	H	87	1.26	-

802.11g_(6Mbps)_1TX

2437MHz_TX

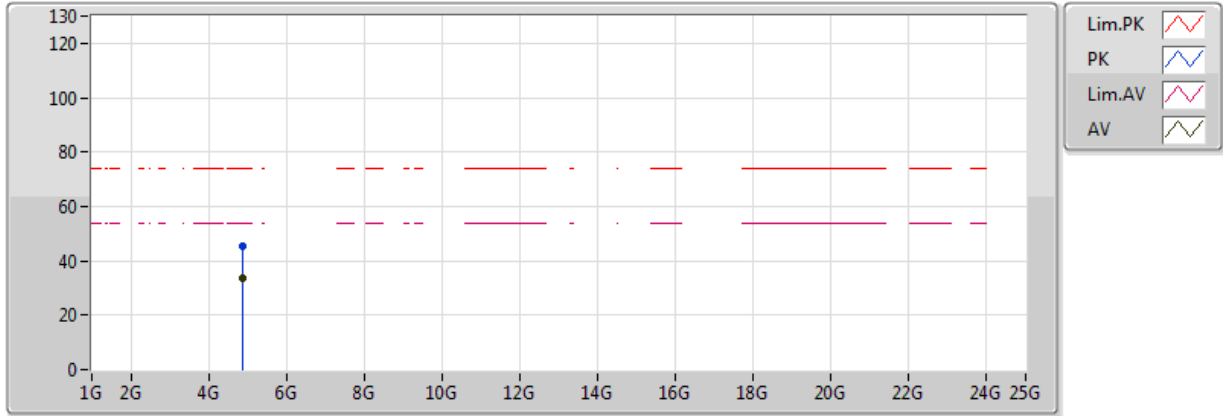


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.874G	33.86	54.00	-20.14	3.85	3	V	0	1.50	-
PK	4.874G	46.07	74.00	-27.93	3.85	3	V	0	1.50	-

802.11g_(6Mbps)_1TX

2437MHz_TX

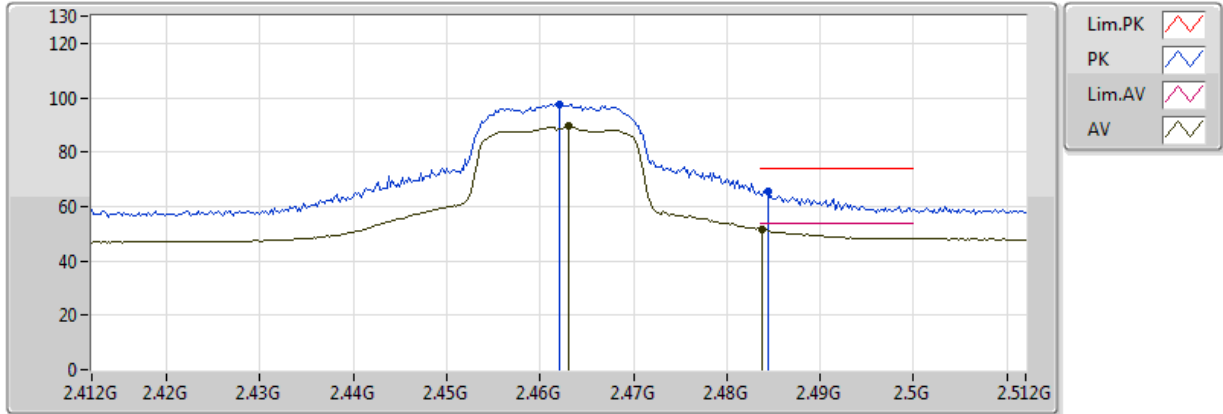


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.874G	33.78	54.00	-20.22	3.85	3	H	360	1.50	-
PK	4.874G	45.57	74.00	-28.43	3.85	3	H	360	1.50	-

802.11g_(6Mbps)_1TX

2462MHz_TX

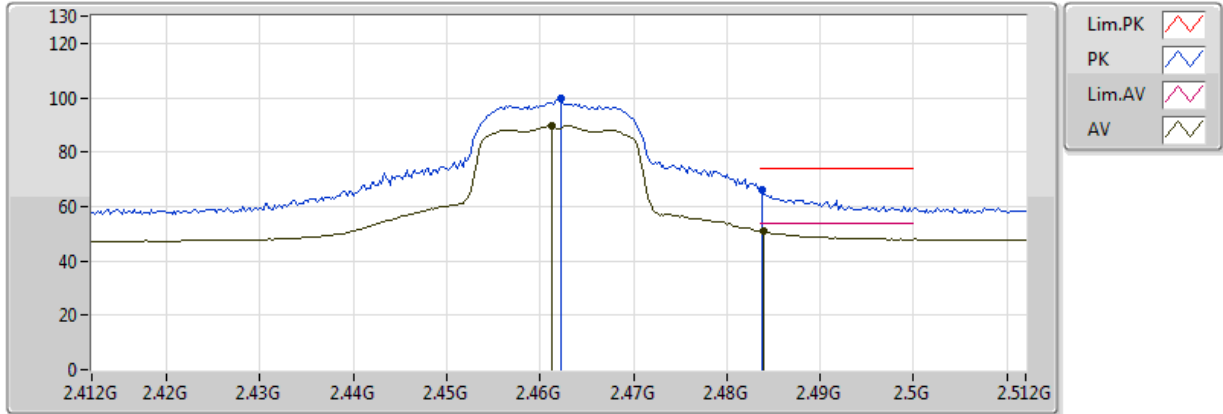


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.463G	89.42	Inf	-Inf	31.46	3	V	346	1.26	-
AV	2.4838G	51.65	54.00	-2.35	31.53	3	V	346	1.26	-
PK	2.462G	97.71	Inf	-Inf	31.45	3	V	346	1.26	-
PK	2.4844G	65.63	74.00	-8.37	31.53	3	V	346	1.26	-

802.11g_(6Mbps)_1TX

2462MHz_TX

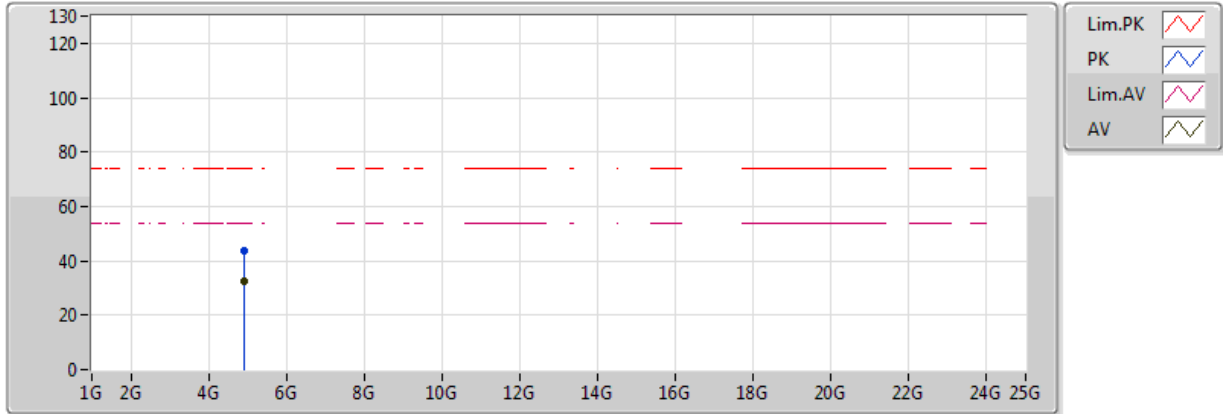


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4612G	89.69	Inf	-Inf	31.45	3	H	83	1.01	-
AV	2.484G	50.86	54.00	-3.14	31.53	3	H	83	1.01	-
PK	2.4622G	99.57	Inf	-Inf	31.45	3	H	83	1.01	-
PK	2.4838G	66.38	74.00	-7.62	31.53	3	H	83	1.01	-

802.11g_(6Mbps)_1TX

2462MHz_TX

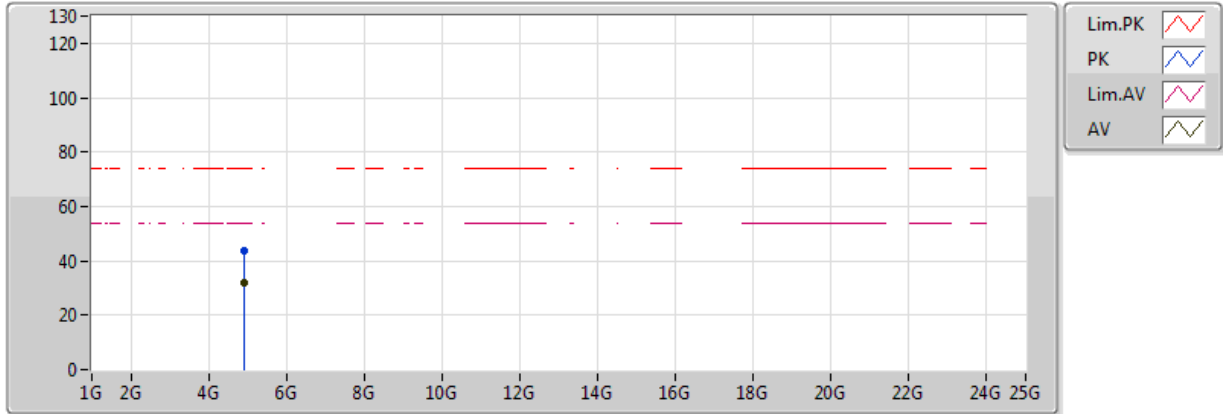


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.924G	32.50	54.00	-21.50	3.92	3	V	0	1.50	-
PK	4.924G	43.75	74.00	-30.25	3.92	3	V	0	1.50	-

802.11g_(6Mbps)_1TX

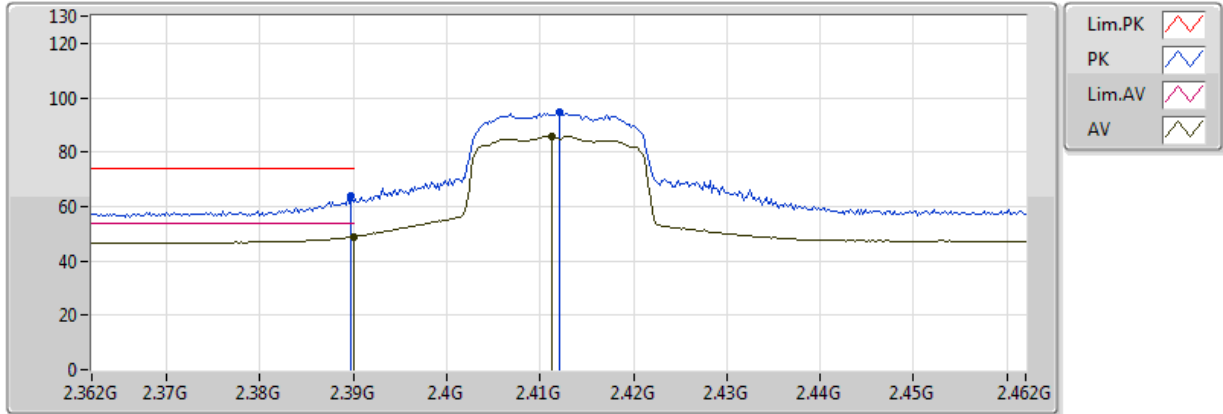
2462MHz_TX



Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.924G	32.03	54.00	-21.97	3.92	3	H	360	1.50	-
PK	4.924G	43.78	74.00	-30.22	3.92	3	H	360	1.50	-

802.11n HT20_Nss1,(MCS0)_1TX 2412MHz_TX

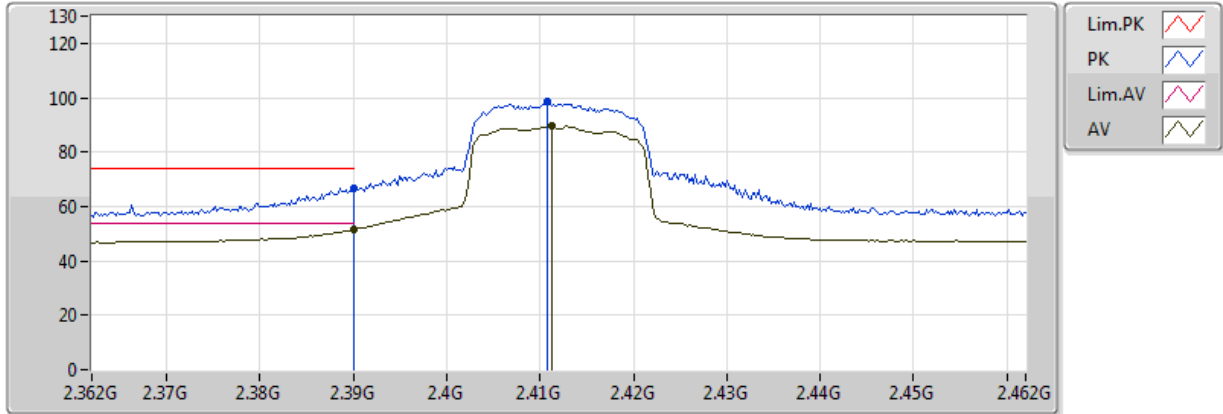


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	48.92	54.00	-5.08	31.19	3	V	318	1.01	-
AV	2.4112G	86.00	Inf	-Inf	31.27	3	V	318	1.01	-
PK	2.3898G	63.95	74.00	-10.05	31.19	3	V	318	1.01	-
PK	2.412G	94.54	Inf	-Inf	31.27	3	V	318	1.01	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

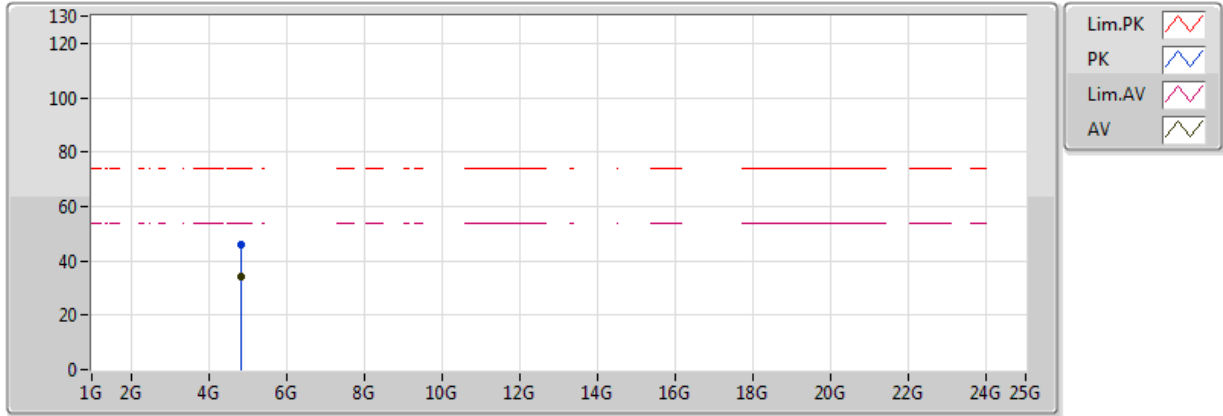


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	51.36	54.00	-2.64	31.19	3	H	80	1.01	-
AV	2.4112G	89.60	Inf	-Inf	31.27	3	H	80	1.01	-
PK	2.39G	66.84	74.00	-7.16	31.19	3	H	80	1.01	-
PK	2.4108G	98.46	Inf	-Inf	31.27	3	H	80	1.01	-

802.11n HT20_Nss1,(MCS0)_1TX

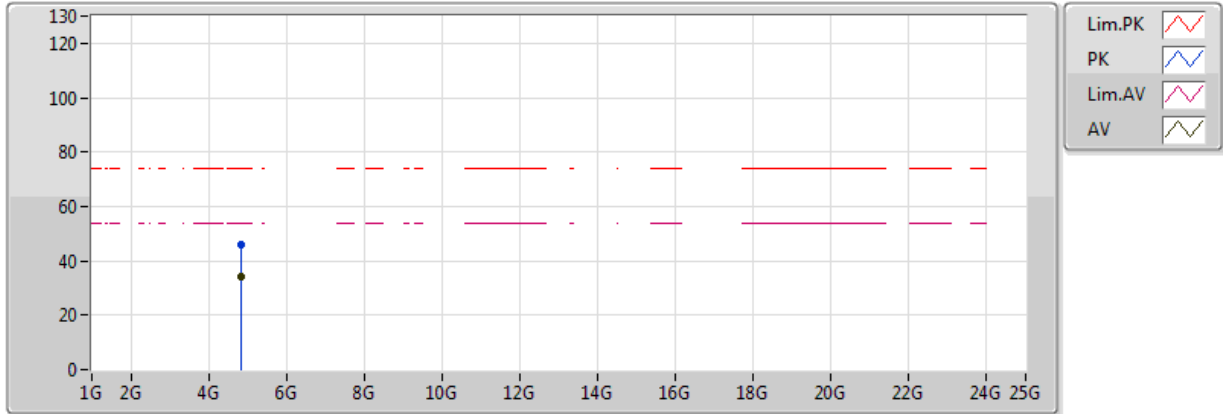
2412MHz_TX



Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.824G	34.11	54.00	-19.89	3.77	3	V	0	1.50	-
PK	4.824G	46.03	74.00	-27.97	3.77	3	V	0	1.50	-

802.11n HT20_Nss1,(MCS0)_1TX
2412MHz_TX

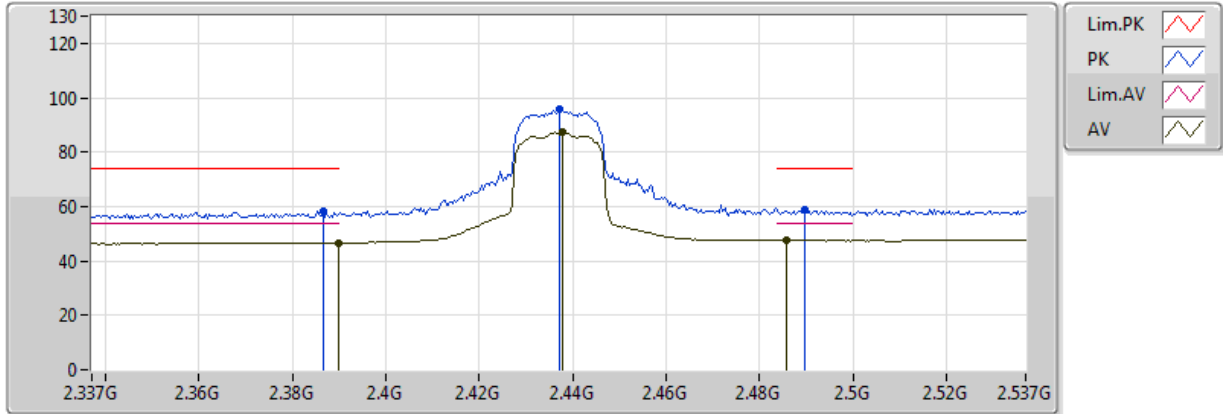


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.824G	34.04	54.00	-19.96	3.77	3	H	360	1.50	-
PK	4.824G	45.95	74.00	-28.05	3.77	3	H	360	1.50	-

802.11n HT20_Nss1,(MCS0)_1TX

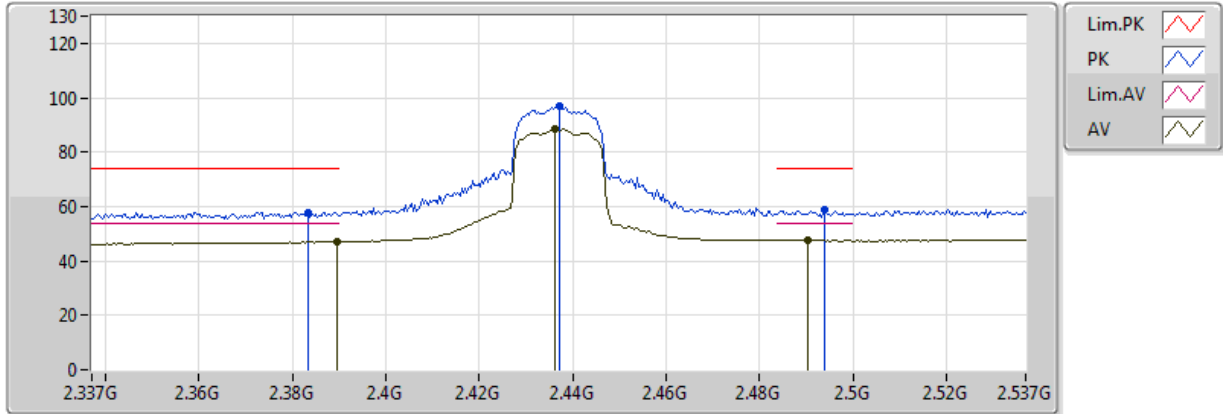
2437MHz_TX



Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3898G	46.68	54.00	-7.32	31.19	3	V	341	1.50	-
AV	2.4378G	87.23	Inf	-Inf	31.37	3	V	341	1.50	-
AV	2.4858G	47.62	54.00	-6.38	31.54	3	V	341	1.50	-
PK	2.3866G	58.20	74.00	-15.80	31.18	3	V	341	1.50	-
PK	2.437G	95.66	Inf	-Inf	31.36	3	V	341	1.50	-
PK	2.4898G	58.75	74.00	-15.25	31.55	3	V	341	1.50	-

802.11n HT20_Nss1,(MCS0)_1TX 2437MHz_TX

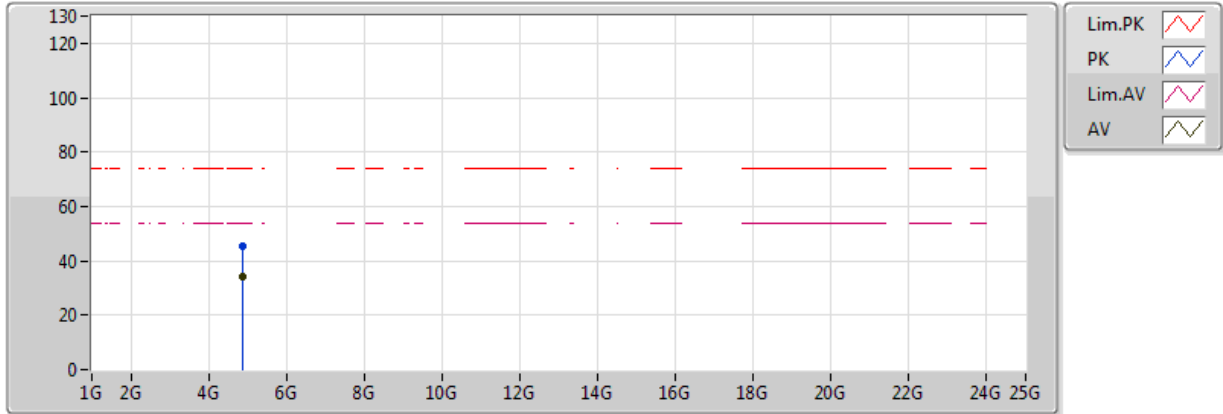


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3894G	47.17	54.00	-6.83	31.19	3	H	88	1.24	-
AV	2.4362G	88.45	Inf	-Inf	31.36	3	H	88	1.24	-
AV	2.4902G	47.56	54.00	-6.44	31.55	3	H	88	1.24	-
PK	2.3834G	57.96	74.00	-16.04	31.17	3	H	88	1.24	-
PK	2.437G	96.87	Inf	-Inf	31.36	3	H	88	1.24	-
PK	2.4938G	58.56	74.00	-15.44	31.57	3	H	88	1.24	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

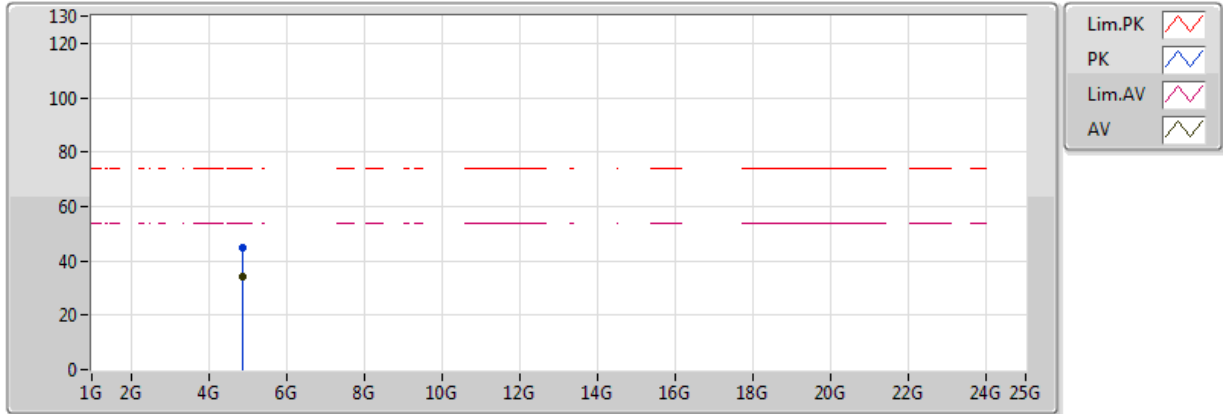


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.874G	34.02	54.00	-19.98	3.85	3	V	0	1.50	-
PK	4.874G	45.28	74.00	-28.72	3.85	3	V	0	1.50	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

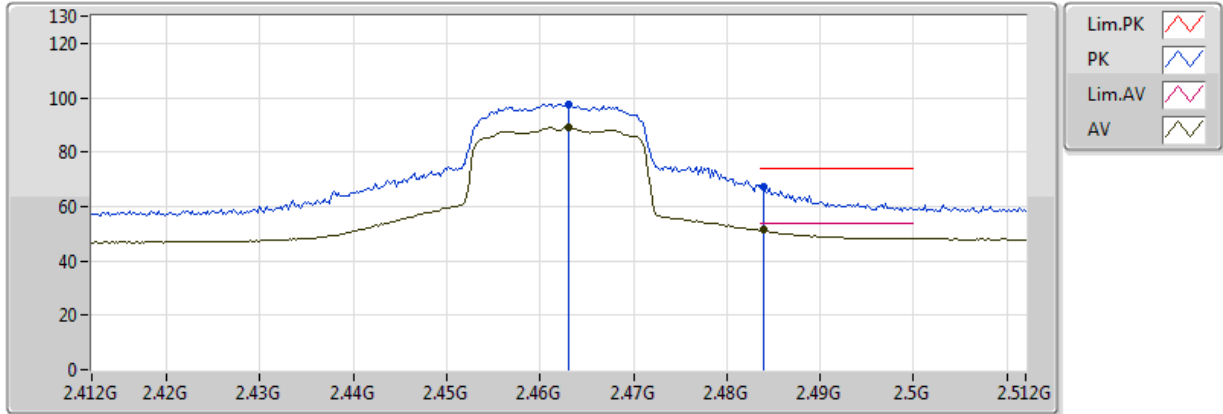


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.874G	33.98	54.00	-20.02	3.85	3	H	360	1.50	-
PK	4.874G	44.69	74.00	-29.31	3.85	3	H	360	1.50	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

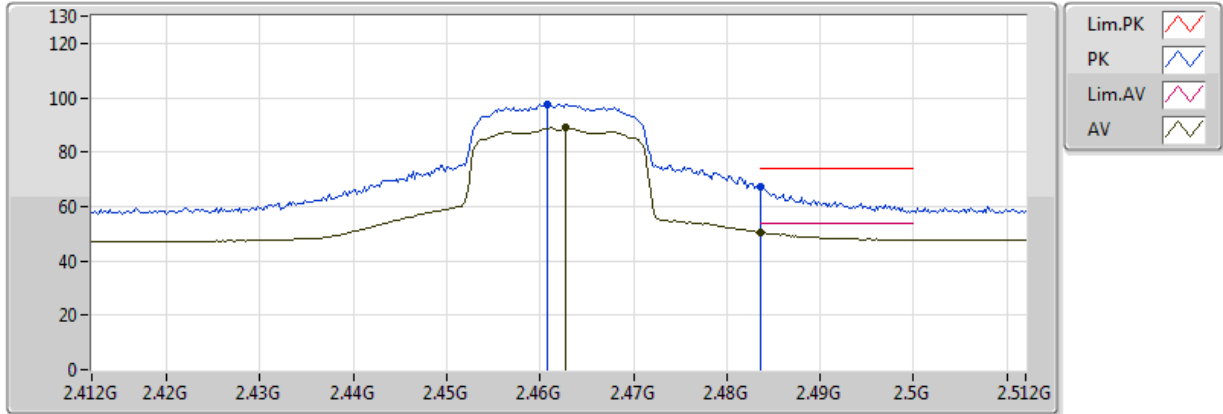


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.463G	89.00	Inf	-Inf	31.46	3	V	345	1.01	-
AV	2.484G	51.29	54.00	-2.71	31.53	3	V	345	1.01	-
PK	2.463G	97.73	Inf	-Inf	31.46	3	V	345	1.01	-
PK	2.484G	67.50	74.00	-6.50	31.53	3	V	345	1.01	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

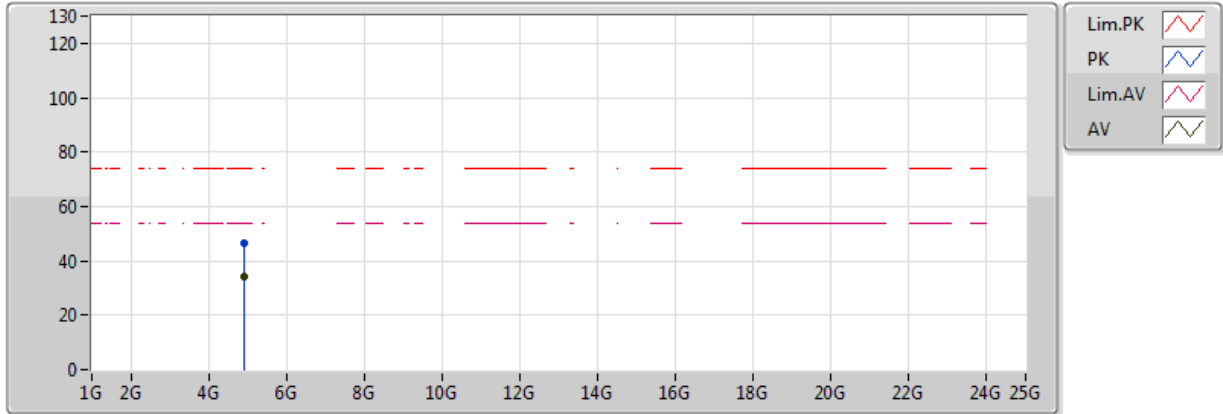


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4628G	88.86	Inf	-Inf	31.46	3	H	81	1.01	-
AV	2.4836G	50.53	54.00	-3.47	31.53	3	H	81	1.01	-
PK	2.4608G	97.77	Inf	-Inf	31.45	3	H	81	1.01	-
PK	2.4836G	67.31	74.00	-6.69	31.53	3	H	81	1.01	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

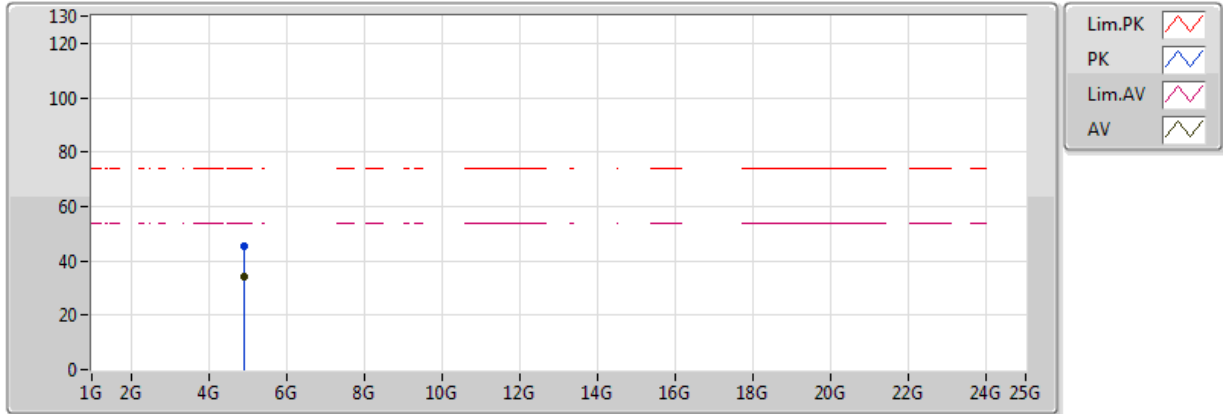


Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.924G	34.36	54.00	-19.64	3.92	3	V	360	1.50	-
PK	4.924G	46.47	74.00	-27.53	3.92	3	V	360	1.50	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX



Eut = X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.924G	34.43	54.00	-19.57	3.92	3	H	0	1.50	-
PK	4.924G	45.36	74.00	-28.64	3.92	3	H	0	1.50	-