

FCC Test Report

Equipment : Wireless 802.11 a/ac+b/g/n PCBA module
Brand Name : Extreme Networks
Model No. : AP3917k/AP7662k
FCC ID : QXO-AP3917K
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz – 2483.5 MHz
Function : Point-to-multipoint; Point-to-point
Applicant : Extreme Networks, Inc.
6480 Via Del Oro San Jose CA 95119 United States
Of America
Manufacturer : Senao Networks, Inc.
3F, No. 529, Chung Cheng Rd. Hsintien Taipei Taiwan

The product sample received on Sep. 21, 2017 and completely tested on Oct. 07, 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 / Assistant Manager





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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



Revision History

Report No.	Version	Description	Issued Date
FR780809AC	Rev. 01	Initial issue of report	Oct. 31, 2017



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.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	-	-	Omini	I-PEX	7.5
2	2	-	-	Omini	I-PEX	7.5



1.1.3 EUT Information

Operational Condition	
EUT Power Type	From PoE
Beamforming Function	<input checked="" type="checkbox"/> With beamforming <input type="checkbox"/> Without beamforming
Note: Only conducted power was measured for BF mode and the non-BF was worse than BF, therefore only the non-BF was full evaluated.	
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) ≥ 1/T
802.11b	0.994	0.026	n/a (DC≥=0.98)	n/a (DC≥=0.98)
802.11g	0.964	0.159	2.067m	1k
802.11n HT20	0.984	0.07	n/a (DC≥=0.98)	n/a (DC≥=0.98)
802.11n HT40	0.965	0.155	2.43m	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
- ◆ KDB 662911 D01 v02r01

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. TW1190 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	TH01-HY	Ryan Hsiao	24.6°C / 65%	07/Oct/2017
Radiated	03CH02-HY	Lynus Tsai	23.3°C / 57%	29/Sep/2017
AC Conduction	CO04-HY	Eric lee	24.8°C / 61.2%	04/Oct/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 Version	QRCT 3.0.174.0
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Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	23.5
2437MHz	22.5
2462MHz	21.5
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	16.5
2437MHz	24
2462MHz	18
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	15
2437MHz	24
2462MHz	17
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	14.5
2437MHz	16
2452MHz	13.5

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	PoE mode

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

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Bluetooth+WLAN 2.4GHz+WLAN 5GHz
2	Zigbee+WLAN 2.4GHz+WLAN 5GHz
3	Bluetooth+WLAN 2.4GHz+4.9G
4	Zigbee+WLAN 2.4GHz+4.9G
Refer to Sporton Test Report No.: FA780809 for Co-location RF Exposure Evaluation.	



2.4 Support Equipment

Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for Notebook	DELL	HA65NM130	DoC
3	PoE	EnGenius	EPA5006GP	-
4	AC Source	G.W	APS-9102	-

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

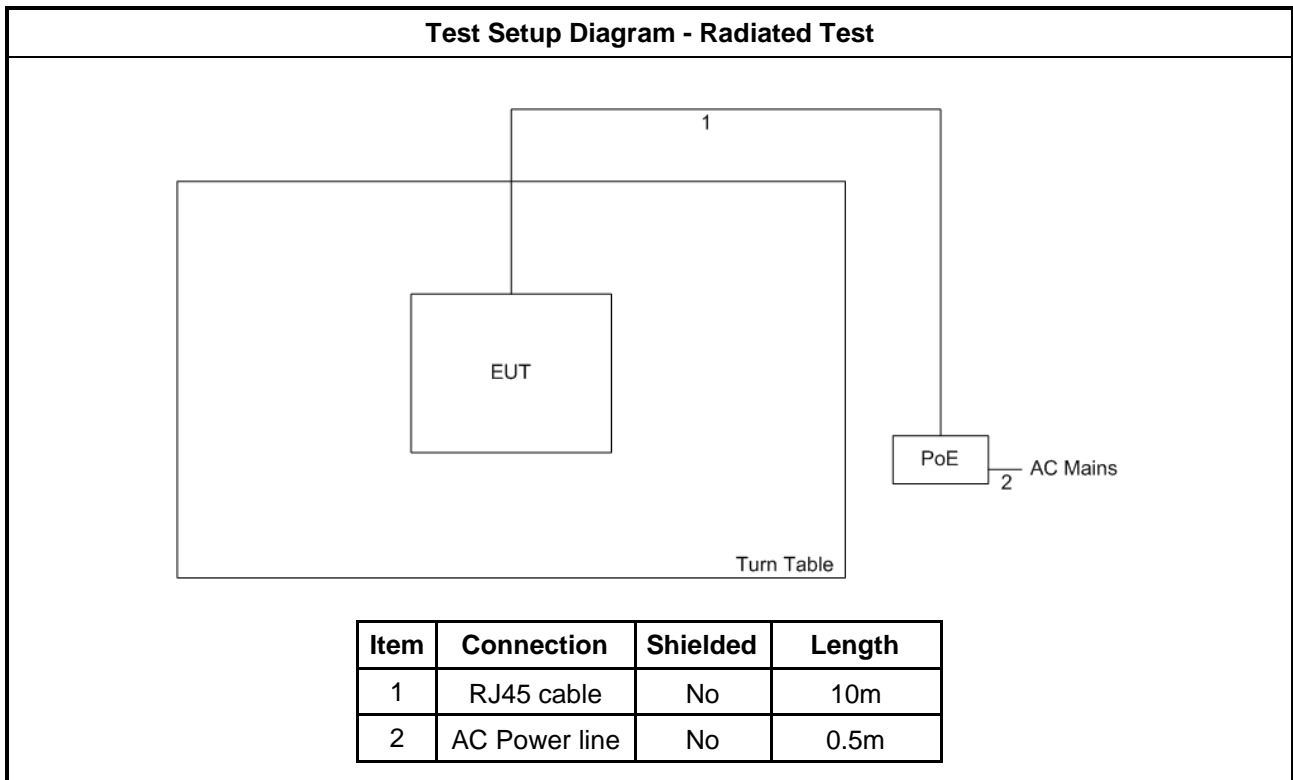
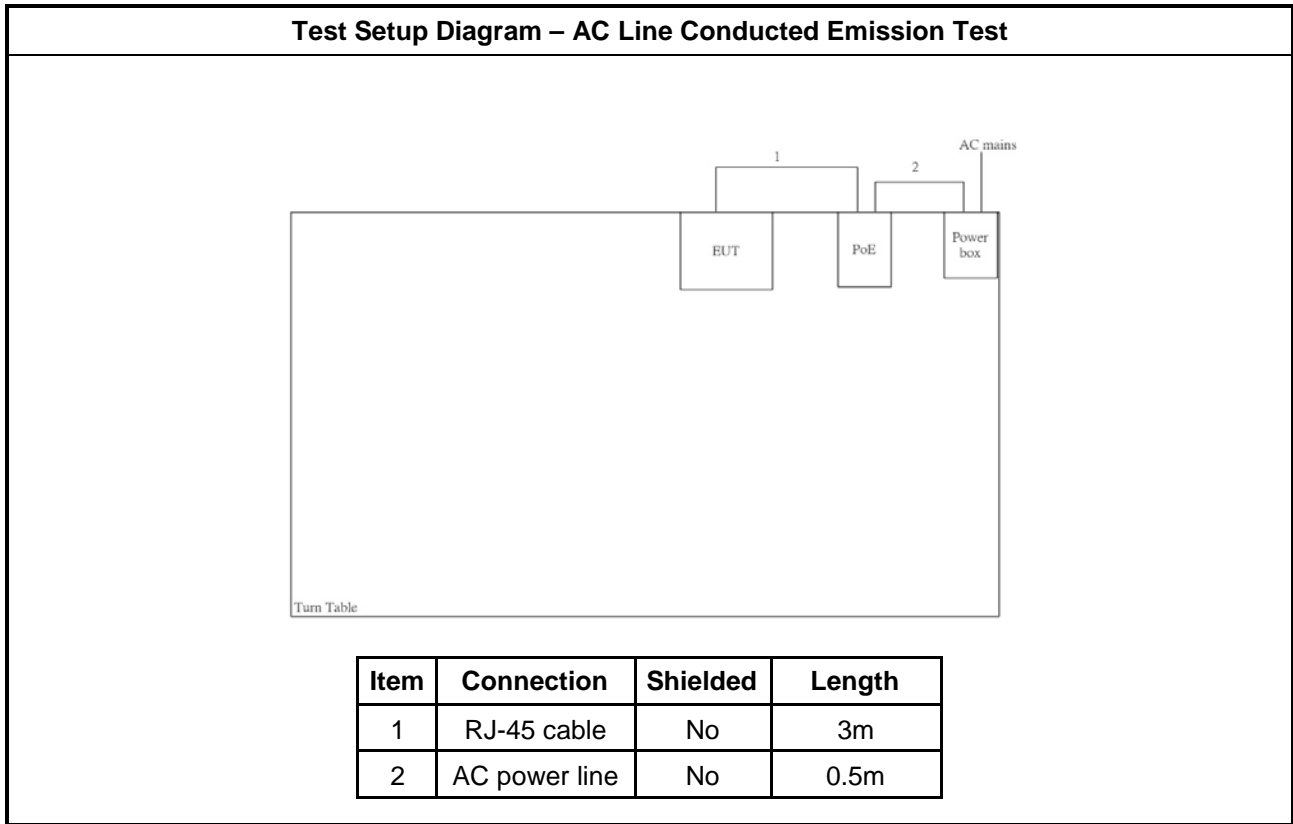
Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	PoE	EnGenius	EPA5006GP	-

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

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	PoE	EnGenius	EPA5006GP	-

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

2.5 Test Setup Diagram



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.

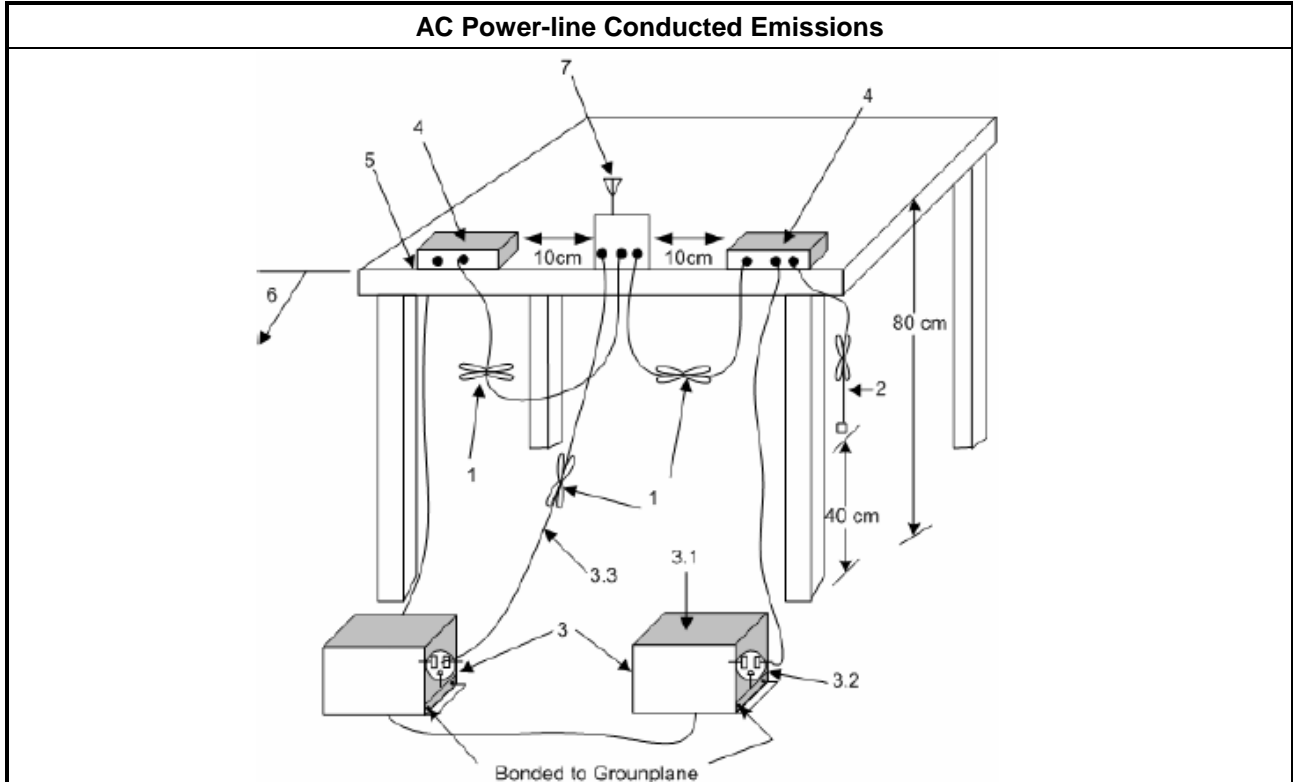
3.1.2 Measuring Instruments

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.

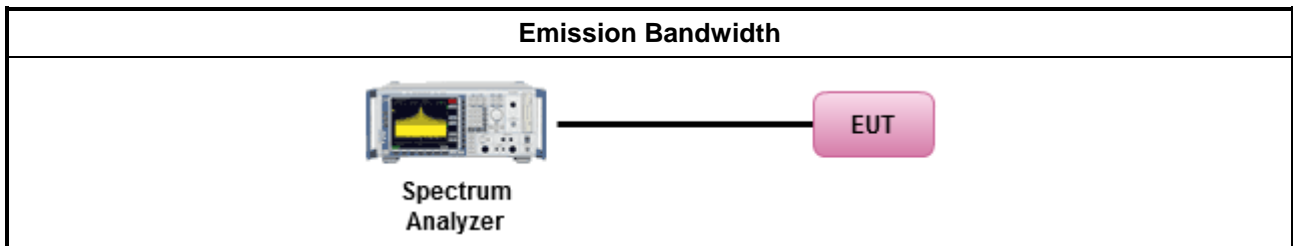
3.2.2 Measuring Instruments

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 RSS-Gen, clause 6.6 for for occupied bandwidth testing.
<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
	<ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - 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:	
	<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
	<ul style="list-style-type: none"> - Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
<p>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

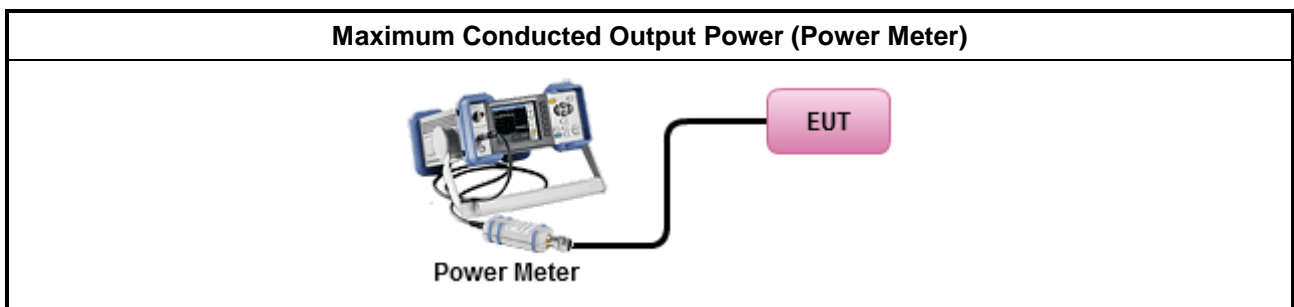
3.3.2 Measuring Instruments

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

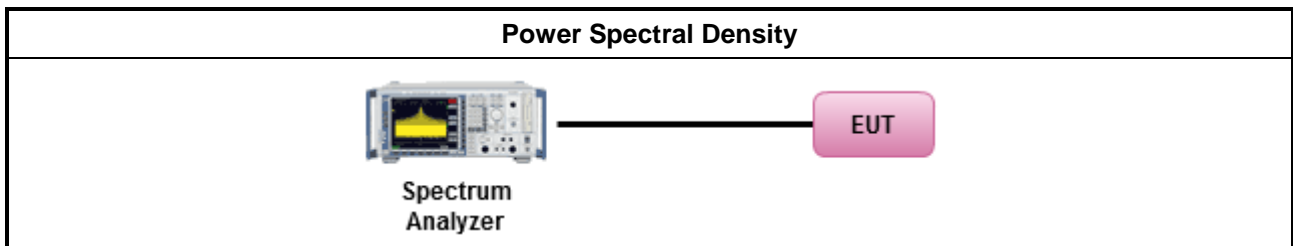
3.4.2 Measuring Instruments

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:
	<ul style="list-style-type: none"> 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.

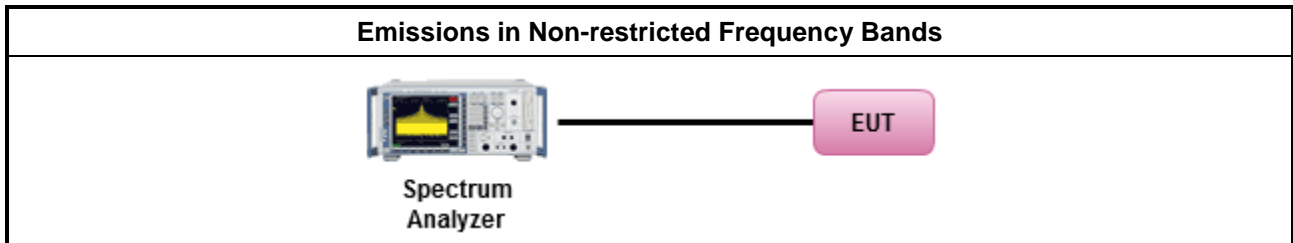
3.5.2 Measuring Instruments

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.

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

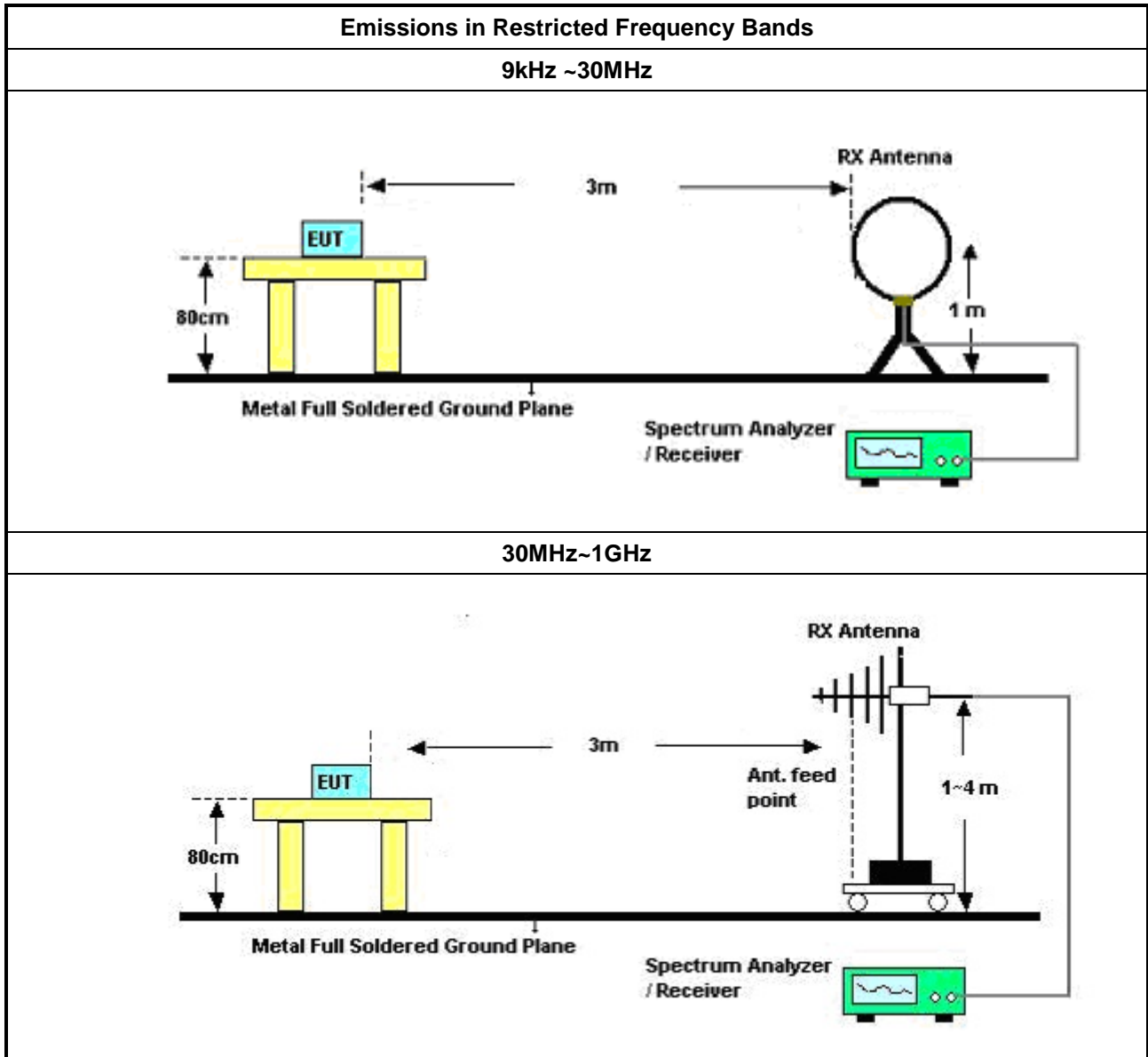
Refer a test equipment and calibration data table in this test report.

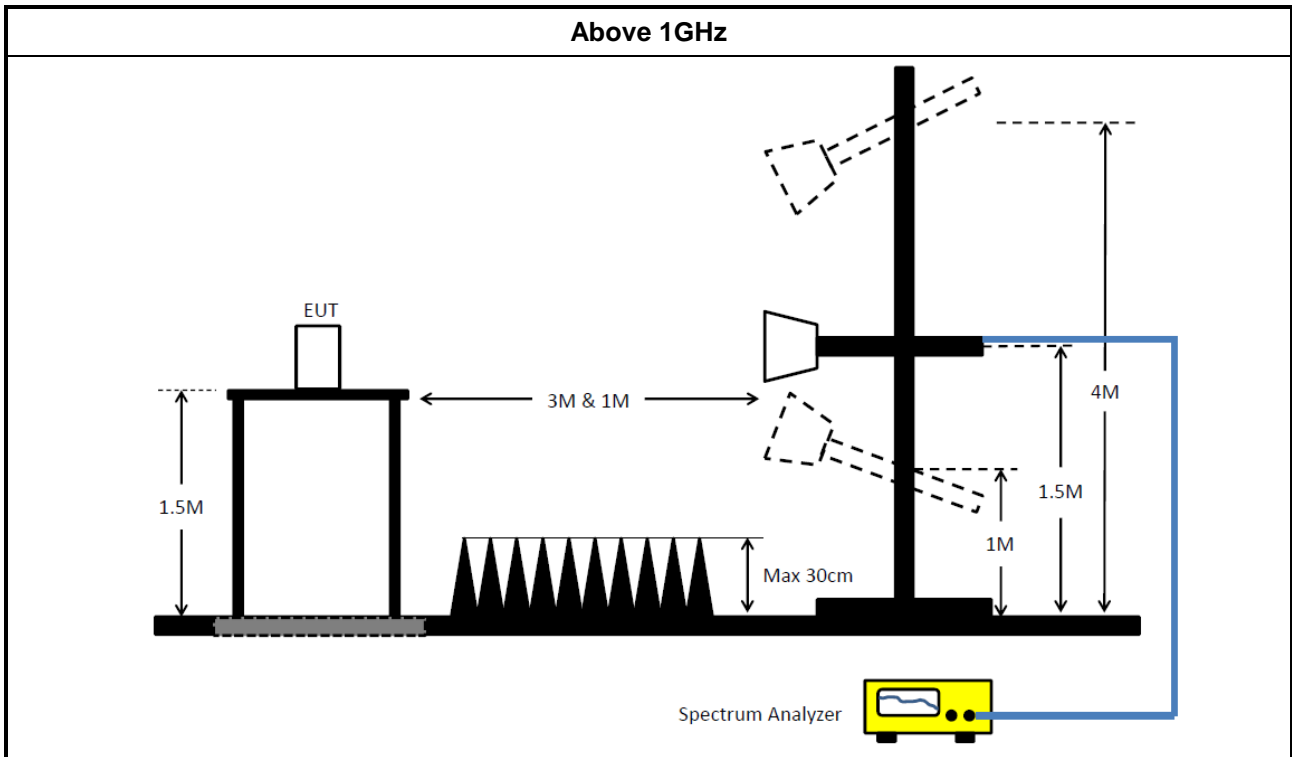


3.6.3 Test Procedures

Test Method	
<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.

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	102052	9KHz ~ 3.6GHz	29/Apr/2017	28/Apr/2018
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	15/Nov/2016	14/Nov/2017
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	24/Oct/2016	23/Oct/2017
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	R&S	ESH3-Z2	100921	10 kHz ~ 30 MHz	21/Oct/2016	20/Oct/2017

NCR : Non-Calibration Require

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSP40	100593	9KHz - 40GHz	26/Oct/2016	25/Oct/2017
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz-1GHz	21/Oct/2016	20/Oct/2017
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz	12/Dec/2016	11/Dec/2017
Amplifier	Agilent	8447D	2944A11149	100KHz-1.3GHz	29/Jun/2017	28/Jun/2018
Amplifier	Ketsight	83017A	MY53270197	1GHz-26.5GHz	19/Sep/2017	18/Sep/2018
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D 01531	1GHz-18GHz	11/May/2017	10/May/2018
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	18GHz-40GHz	06/Feb/2017	05/Feb/2018
Bilog Antenna	SCHAFFNER	CBL6112B	2723	30MHz-1GHz	09/Sep/2017	08/Sep/2018
Amplifier	MITEQ	JS44-18004000 -33-8P	1840917	18GHz-40GHz	06/Feb/2017	05/Feb/2018
Loop Antenna	TESEQ	HLA 6120	31244	9KHz-30MHz	02/Mar/2017	01/Mar/2018
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	26/Jan/2017	25/Jan/2018
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	26/Jan/2017	25/Jan/2018
Receiver	R&S	ESU3	102052	9kHz ~ 3.6GHz	29/Apr/2017	28/Apr/2018



Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	30/Dec/2016	29/Dec/2017
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	27/Jul/2017	26/Jul/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018



AC Power-line Conducted Emissions Result																																																																																																																																										
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Summary

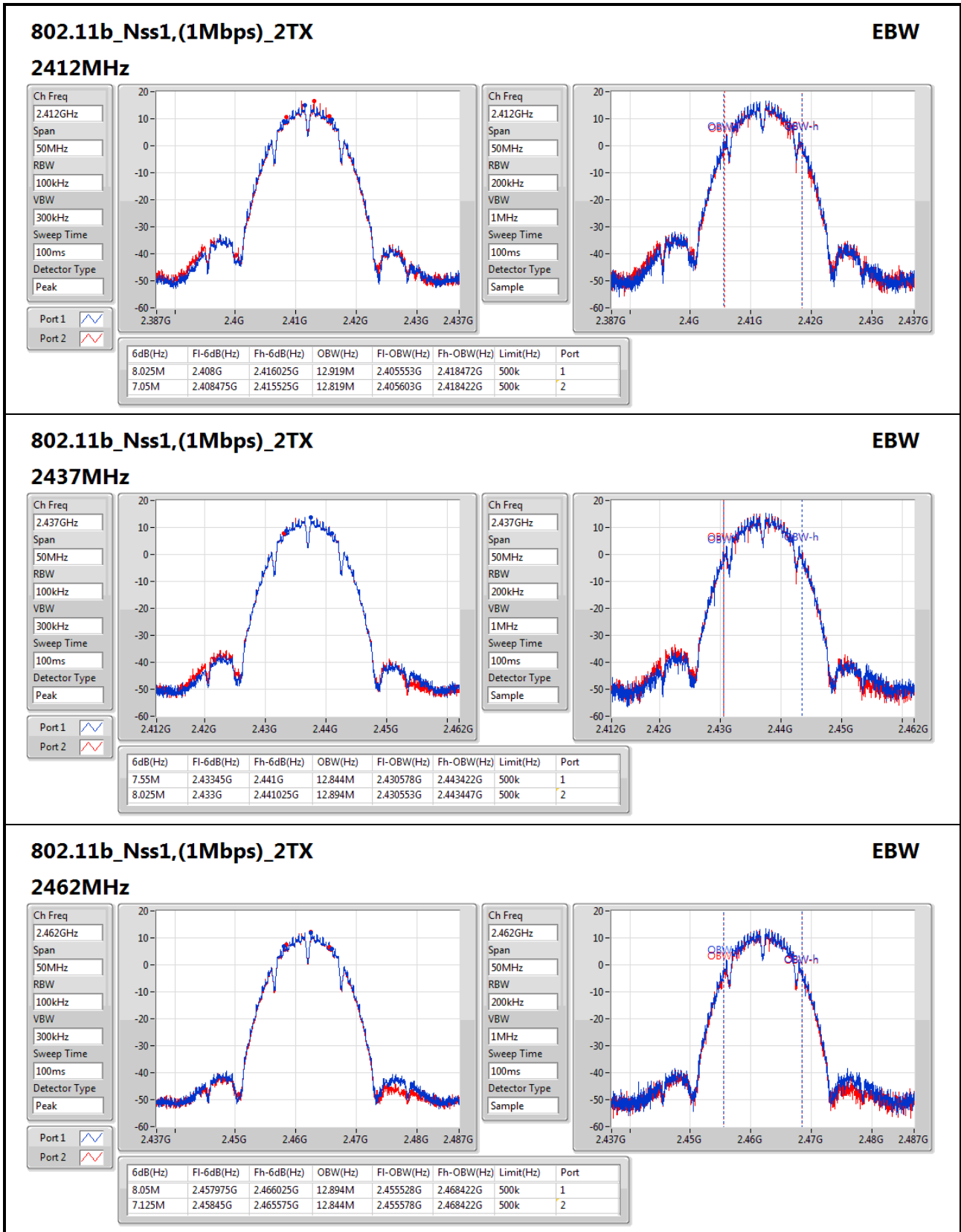
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.05M	12.919M	12M9G1D	7.05M	12.819M
802.11g_Nss1,(6Mbps)_2TX	16.35M	16.442M	16M4D1D	16.3M	16.367M
802.11n HT20_Nss1,(MCS0)_2TX	17.6M	17.666M	17M7D1D	17.325M	17.591M
802.11n HT40_Nss1,(MCS0)_2TX	35.05M	35.932M	35M9D1D	33.75M	35.882M

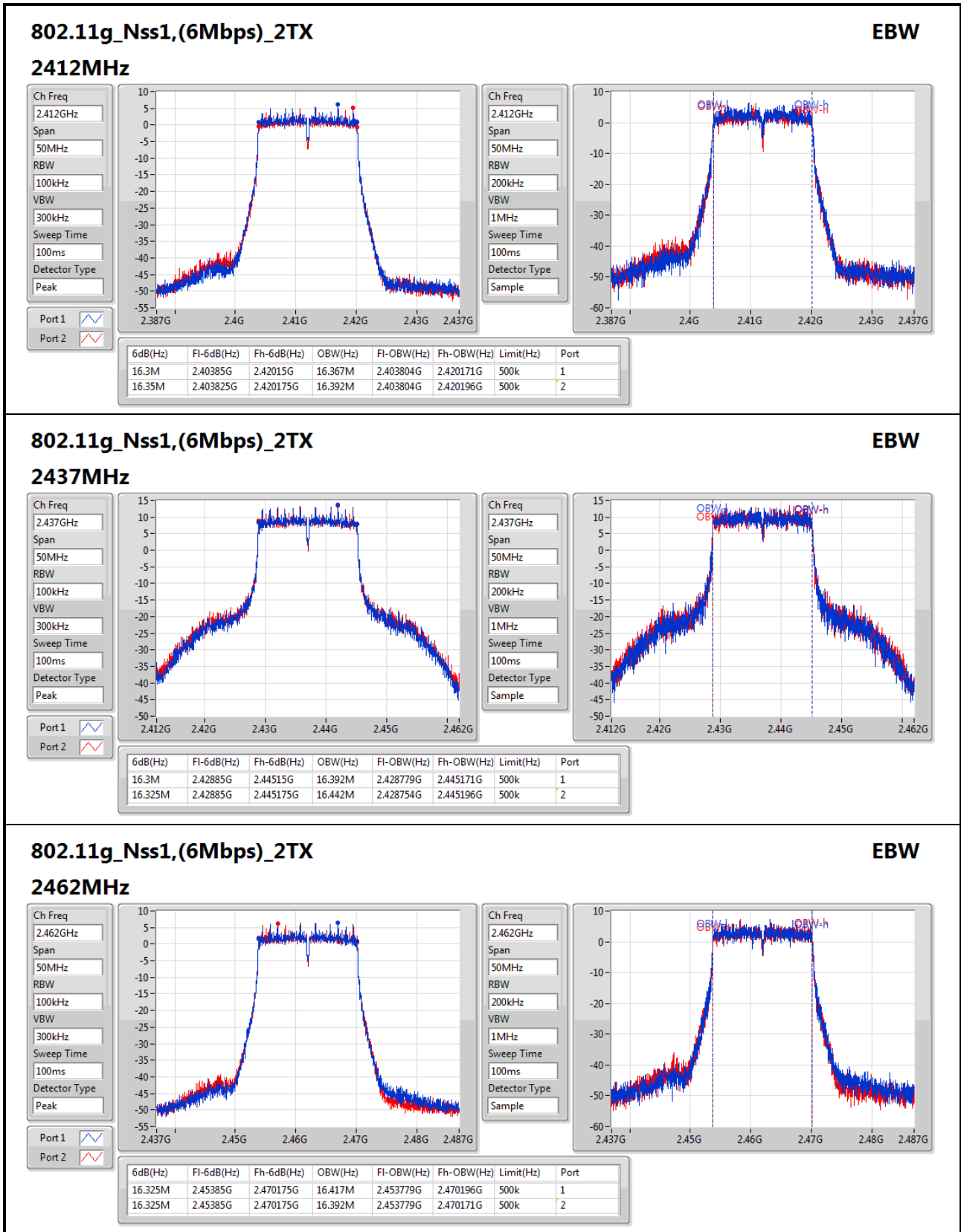
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

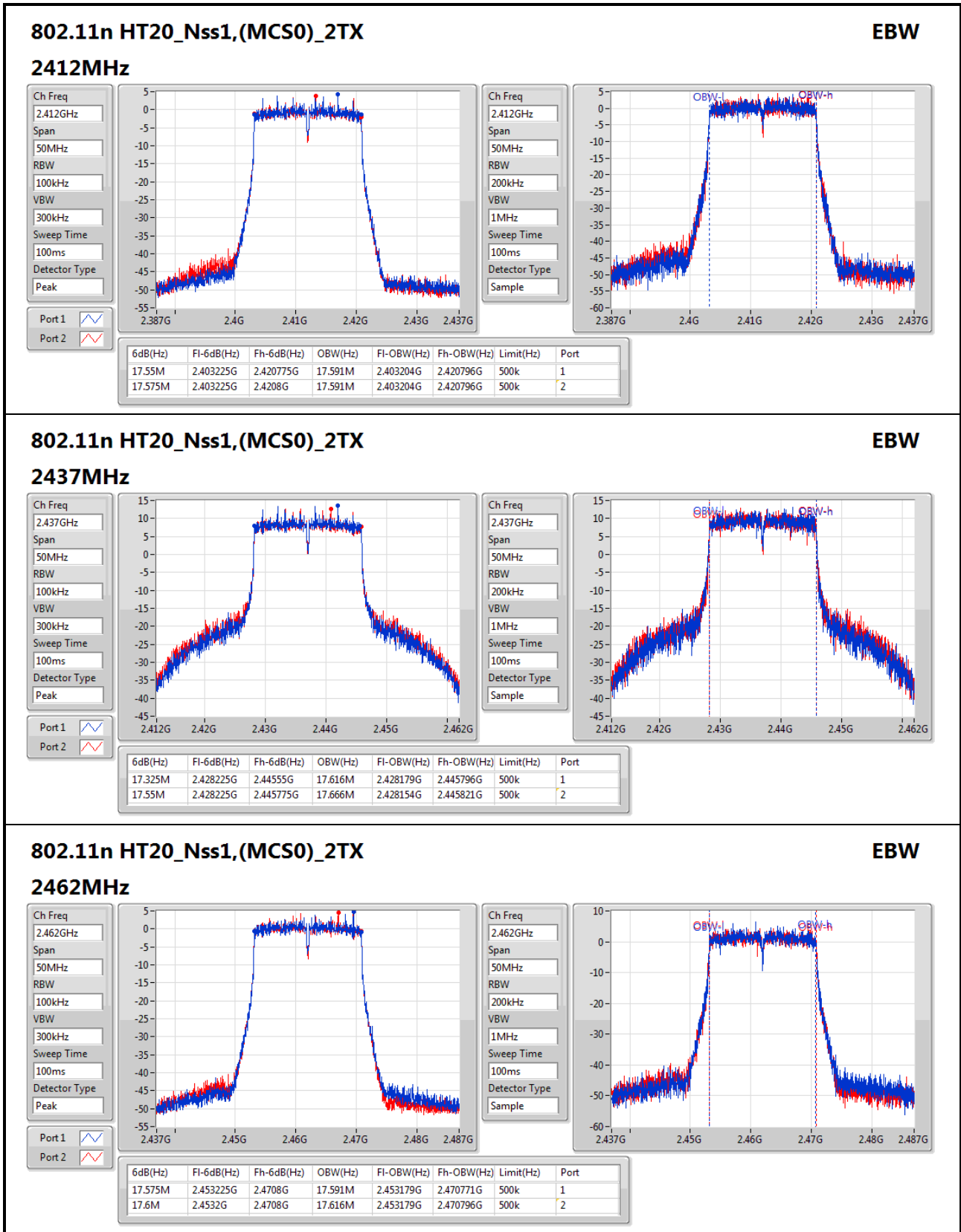
Result

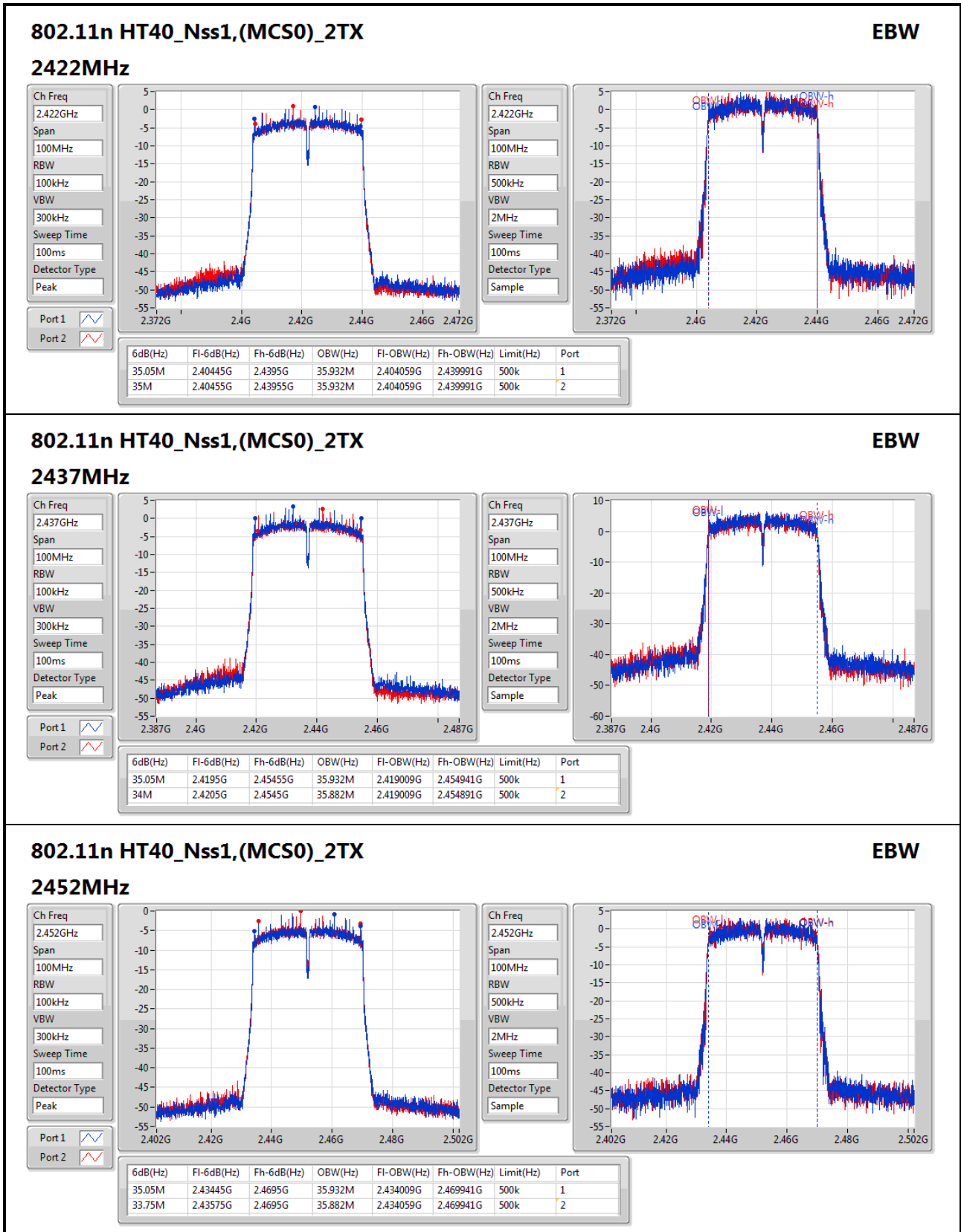
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	8.025M	12.919M	7.05M	12.819M
2437MHz_TnomVnom	Pass	500k	7.55M	12.844M	8.025M	12.894M
2462MHz_TnomVnom	Pass	500k	8.05M	12.894M	7.125M	12.844M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	16.3M	16.367M	16.35M	16.392M
2437MHz_TnomVnom	Pass	500k	16.3M	16.392M	16.325M	16.442M
2462MHz_TnomVnom	Pass	500k	16.325M	16.417M	16.325M	16.392M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	17.55M	17.591M	17.575M	17.591M
2437MHz_TnomVnom	Pass	500k	17.325M	17.616M	17.55M	17.666M
2462MHz_TnomVnom	Pass	500k	17.575M	17.591M	17.6M	17.616M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	500k	35.05M	35.932M	35M	35.932M
2437MHz_TnomVnom	Pass	500k	35.05M	35.932M	34M	35.882M
2452MHz_TnomVnom	Pass	500k	35.05M	35.932M	33.75M	35.882M

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)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	27.52	0.56494
802.11g_Nss1,(6Mbps)_2TX	28.22	0.66374
802.11n HT20_Nss1,(MCS0)_2TX	28.31	0.67764
802.11n HT40_Nss1,(MCS0)_2TX	19.81	0.09572

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	7.50	24.59	24.42	27.52	28.50
2437MHz_TnomVnom	Pass	7.50	22.34	23.43	25.93	28.50
2462MHz_TnomVnom	Pass	7.50	21.49	21.54	24.53	28.50
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	7.50	17.32	16.90	20.13	28.50
2437MHz_TnomVnom	Pass	7.50	25.33	25.09	28.22	28.50
2462MHz_TnomVnom	Pass	7.50	17.84	17.85	20.86	28.50
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	7.50	15.72	15.72	18.73	28.50
2437MHz_TnomVnom	Pass	7.50	25.42	25.17	28.31	28.50
2462MHz_TnomVnom	Pass	7.50	16.84	16.79	19.83	28.50
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	7.50	15.25	15.12	18.20	28.50
2437MHz_TnomVnom	Pass	7.50	16.96	16.64	19.81	28.50
2452MHz_TnomVnom	Pass	7.50	13.68	13.88	16.79	28.50

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11n HT20_Nss1,(MCS0)_2TX	25.30	0.33884
802.11n HT40_Nss1,(MCS0)_2TX	16.80	0.04786

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	10.51	12.71	12.71	15.72	25.49
2437MHz_TnomVnom	Pass	10.51	22.41	22.16	25.30	25.49
2462MHz_TnomVnom	Pass	10.51	13.83	13.78	16.82	25.49
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	10.51	12.24	12.11	15.19	25.49
2437MHz_TnomVnom	Pass	10.51	13.95	13.63	16.80	25.49
2452MHz_TnomVnom	Pass	10.51	10.67	10.87	13.78	25.49

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	0.30
802.11g_Nss1,(6Mbps)_2TX	-0.97
802.11n HT20_Nss1,(MCS0)_2TX	-0.95
802.11n HT40_Nss1,(MCS0)_2TX	-10.75

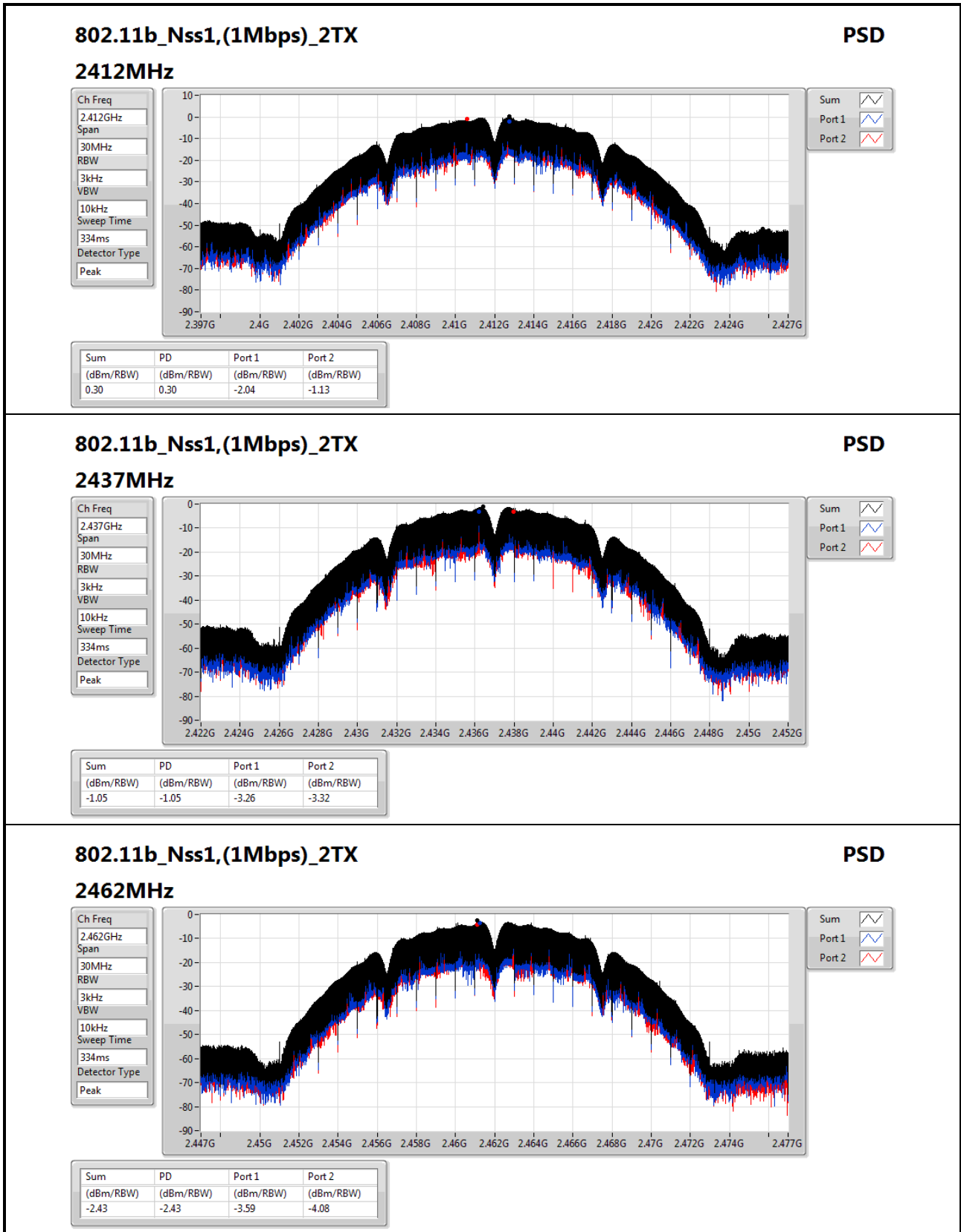
RBW=3kHz.

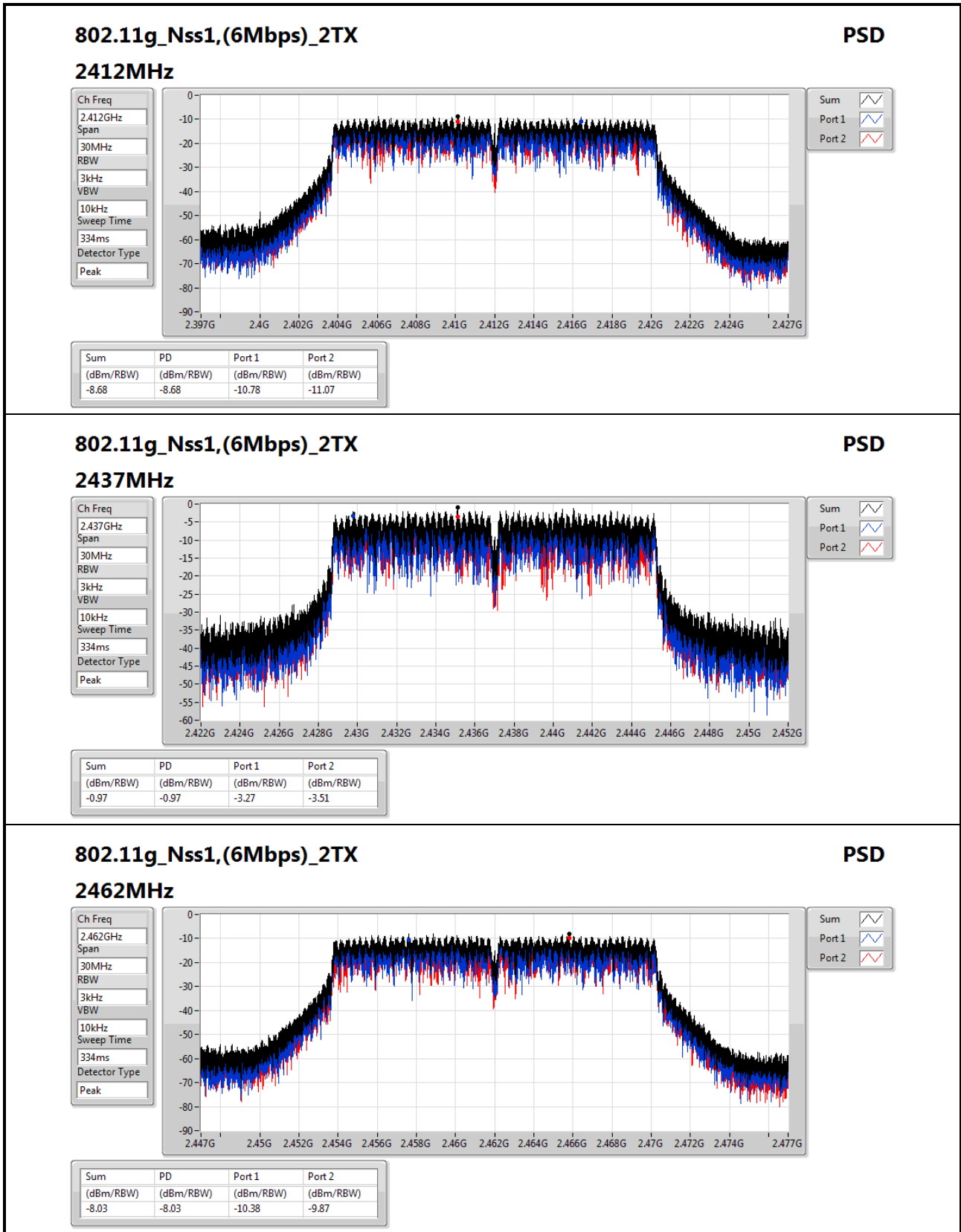
Result

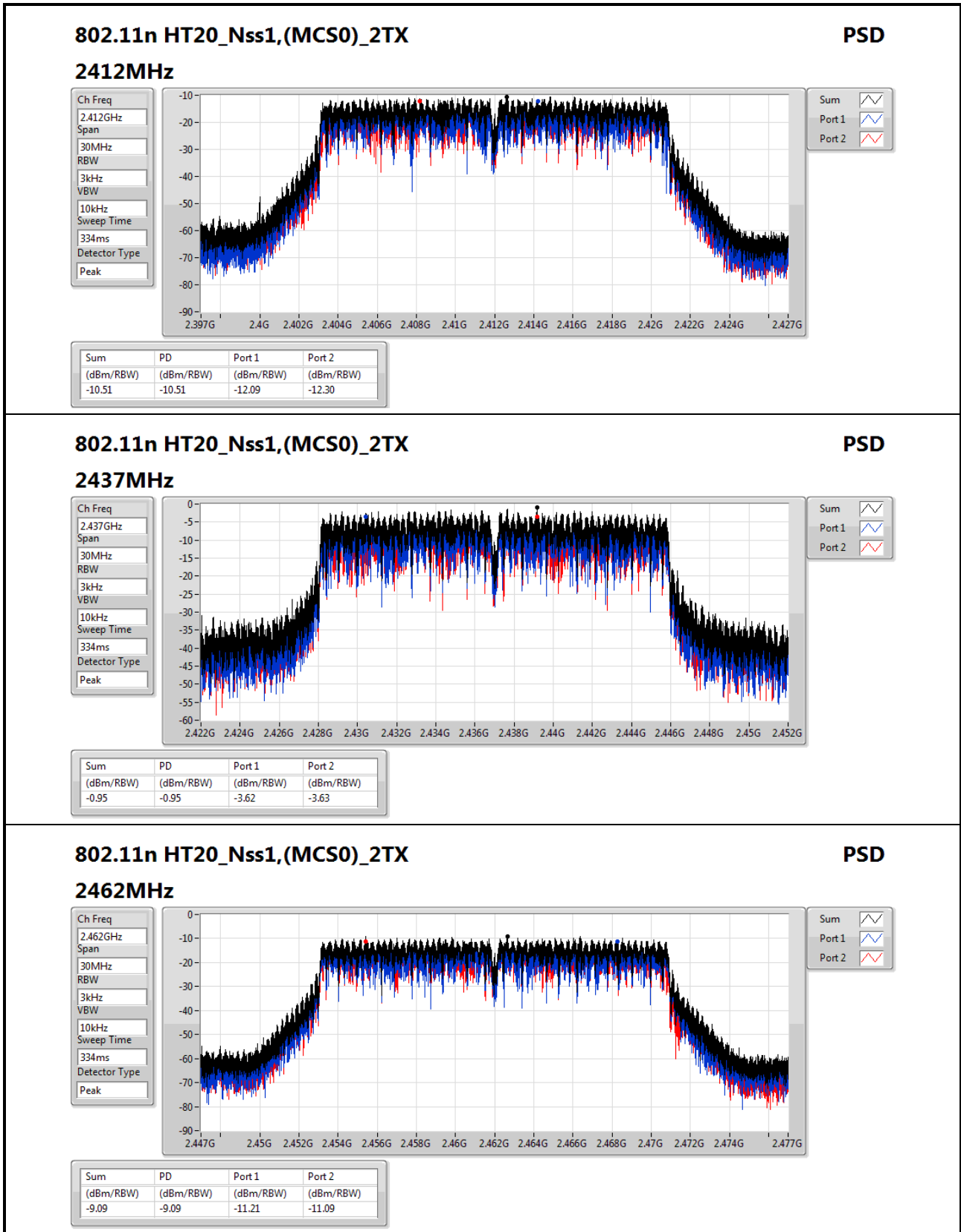
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	10.51	-2.04	-1.13	0.30	3.49
2437MHz_TnomVnom	Pass	10.51	-3.26	-3.32	-1.05	3.49
2462MHz_TnomVnom	Pass	10.51	-3.59	-4.08	-2.43	3.49
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	10.51	-10.78	-11.07	-8.68	3.49
2437MHz_TnomVnom	Pass	10.51	-3.27	-3.51	-0.97	3.49
2462MHz_TnomVnom	Pass	10.51	-10.38	-9.87	-8.03	3.49
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	10.51	-12.09	-12.30	-10.51	3.49
2437MHz_TnomVnom	Pass	10.51	-3.62	-3.63	-0.95	3.49
2462MHz_TnomVnom	Pass	10.51	-11.21	-11.09	-9.09	3.49
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	10.51	-15.07	-14.75	-12.18	3.49
2437MHz_TnomVnom	Pass	10.51	-11.93	-13.45	-10.75	3.49
2452MHz_TnomVnom	Pass	10.51	-15.83	-16.04	-13.95	3.49

DG = Directional Gain; RBW=3kHz;

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







802.11n HT20_Nss1,(MCS0)_2TX

2462MHz

PSD

Ch Freq
2.462GHz

Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
334ms

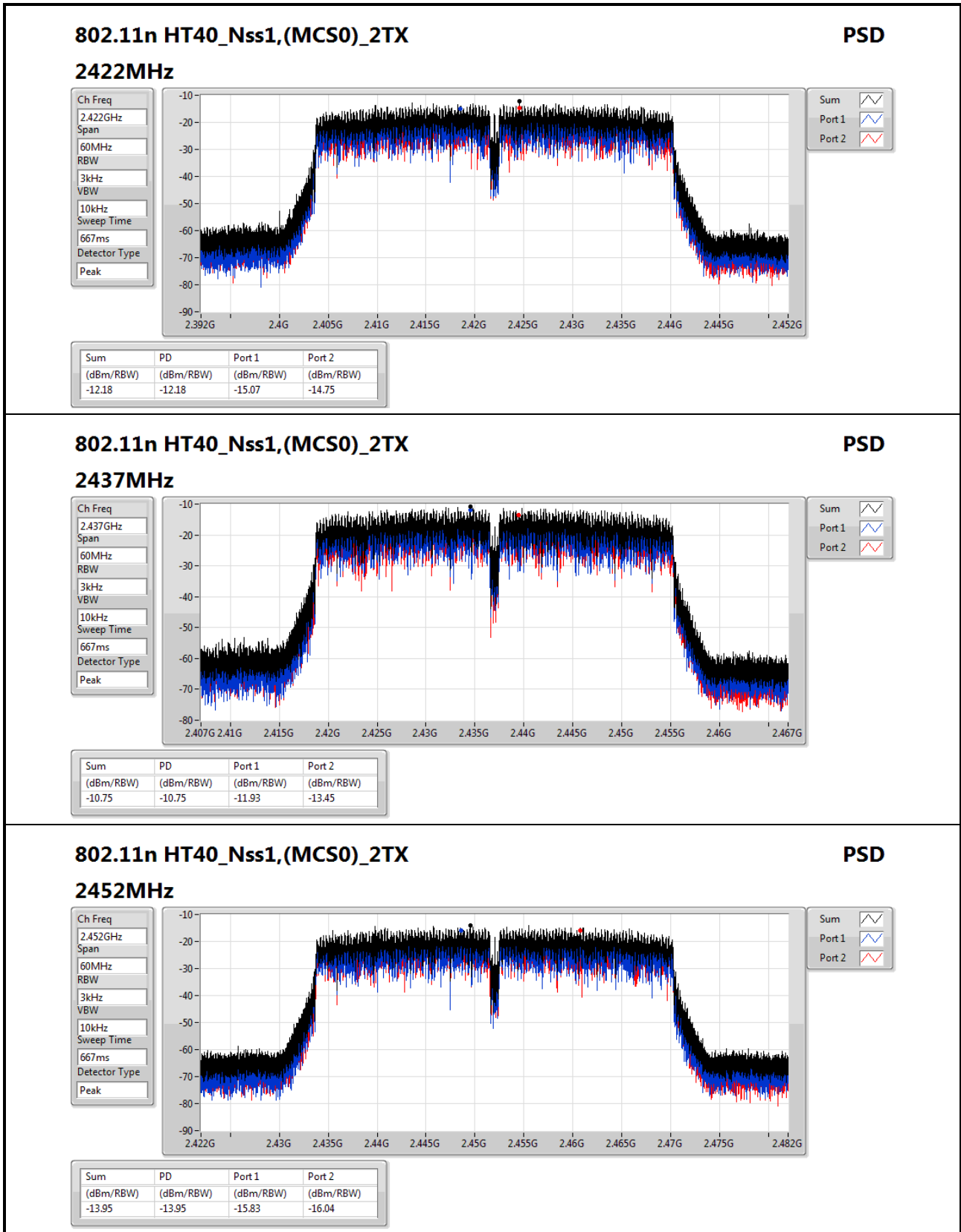
Detector Type
Peak

Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.09	-9.09	-11.21	-11.09



802.11n HT40_Nss1,(MCS0)_2TX

2452MHz

PSD

Ch Freq
2.452GHz

Span
60MHz

RBW
3kHz

VBW
10kHz

Sweep Time
667ms

Detector Type
Peak

Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.95	-13.95	-15.83	-16.04

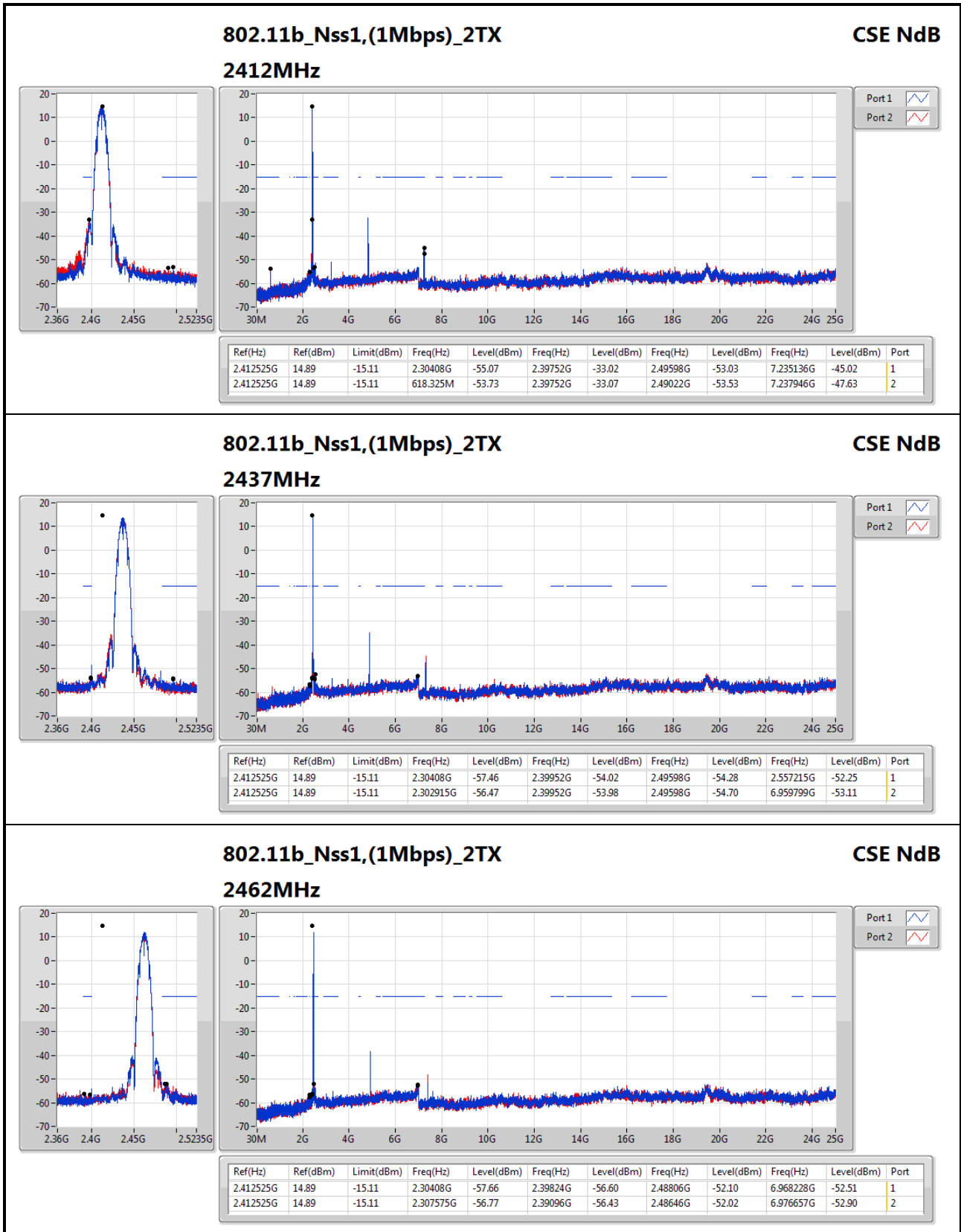


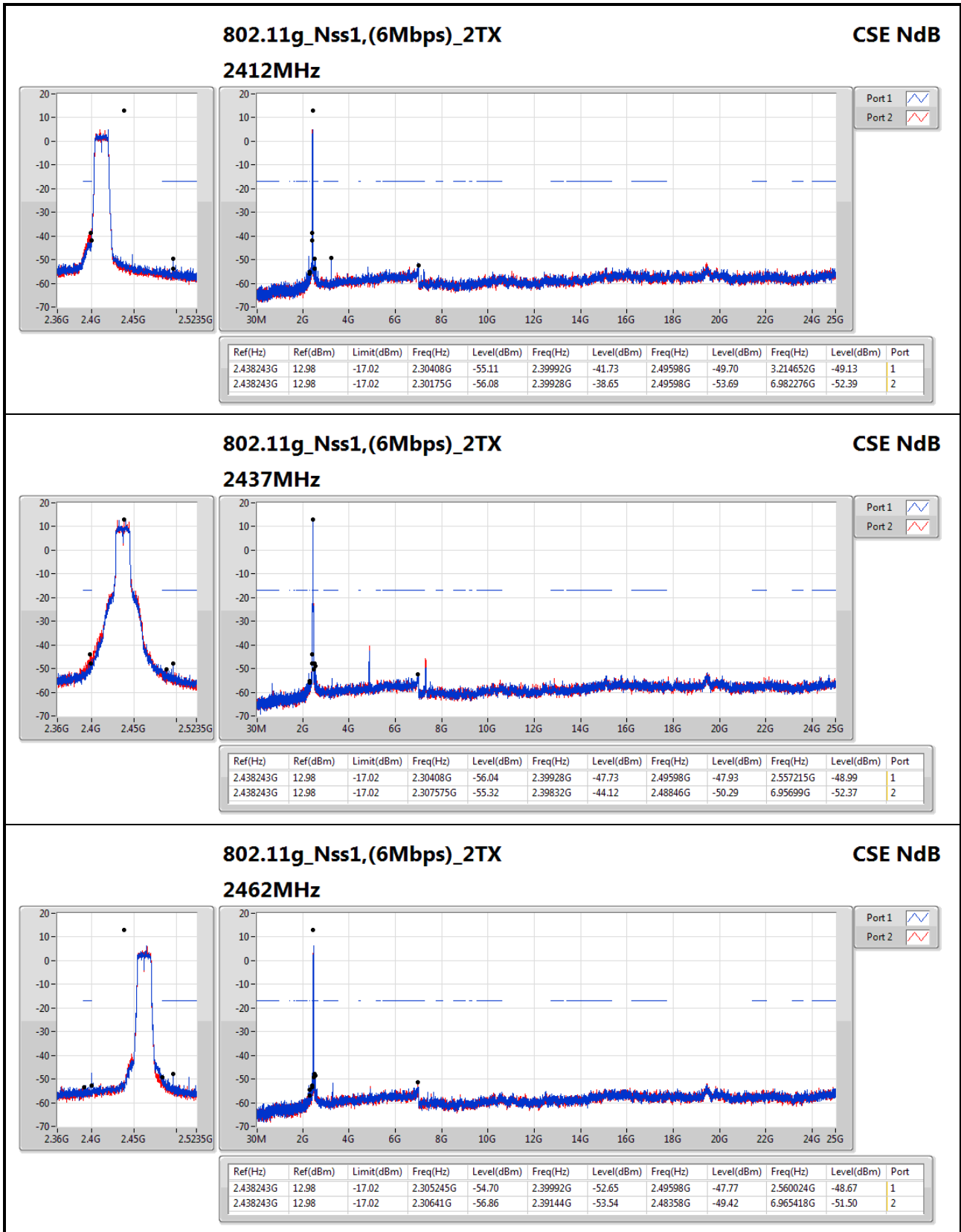
Summary

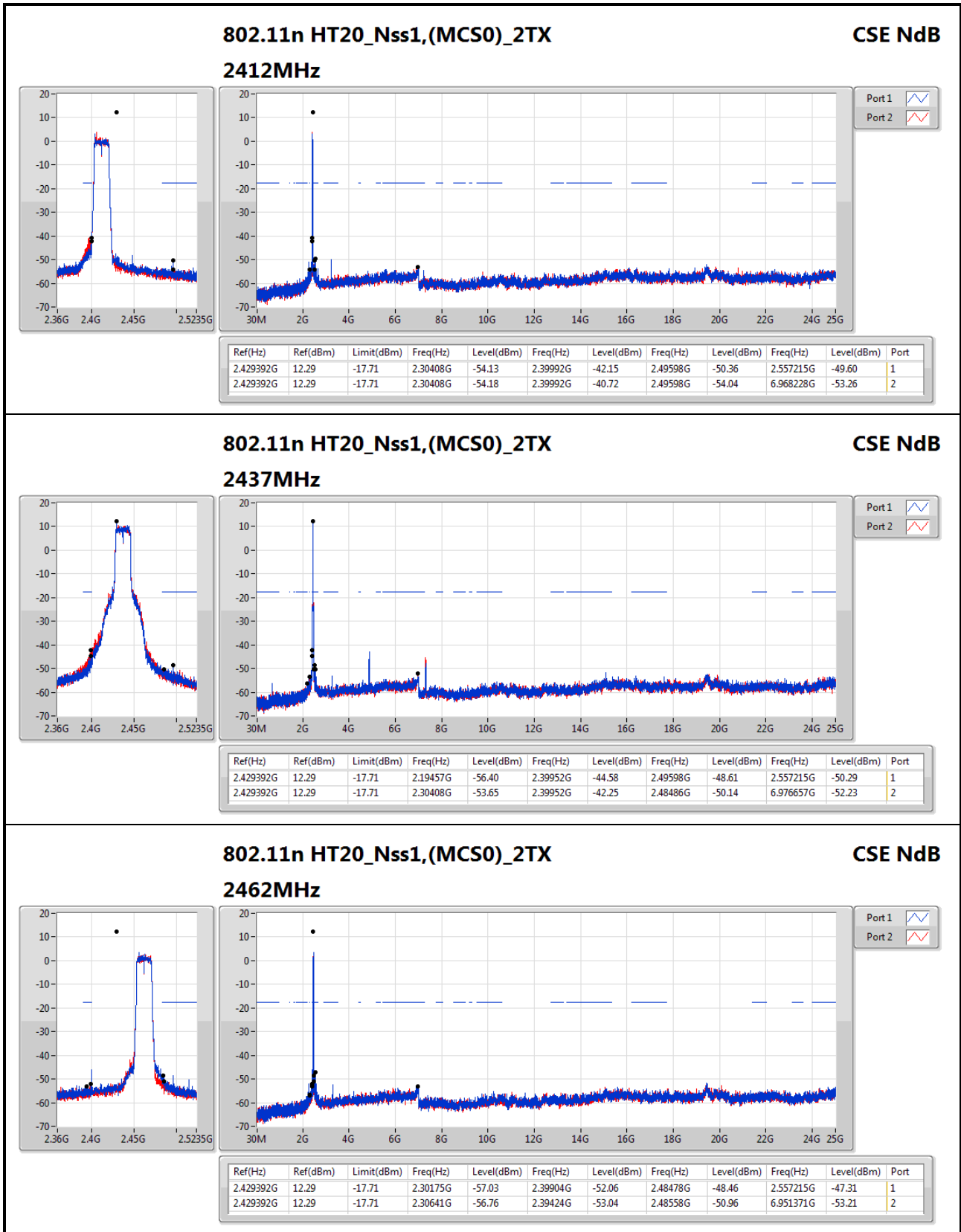
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.412525G	14.89	-15.11	2.30408G	-55.07	2.39752G	-33.02	2.49598G	-53.03	7.235136G	-45.02	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.438243G	12.98	-17.02	2.30175G	-56.08	2.39928G	-38.65	2.49598G	-53.69	6.982276G	-52.39	2
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.429392G	12.29	-17.71	2.30408G	-54.18	2.39992G	-40.72	2.49598G	-54.04	6.968228G	-53.26	2
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.434569G	2.77	-27.23	2.305115G	-56.89	2.39968G	-42.72	2.49598G	-50.96	25G	-53.71	2

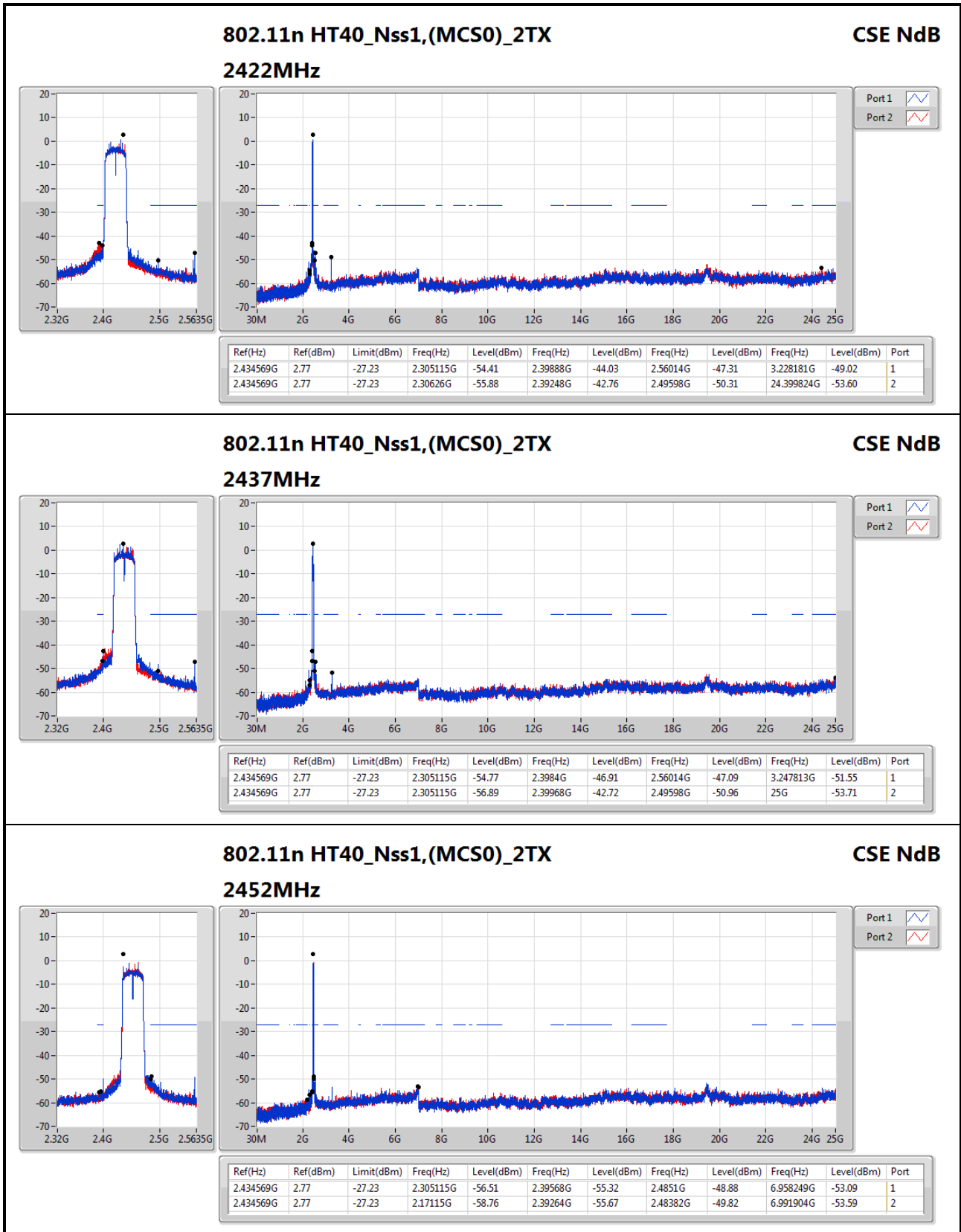
Result

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	2.412525G	14.89	-15.11	2.30408G	-55.07	2.39752G	-33.02	2.49598G	-53.03	7.235136G	-45.02	1
2412MHz_TnomVnom	Pass	2.412525G	14.89	-15.11	618.325M	-53.73	2.39752G	-33.07	2.49022G	-53.53	7.237946G	-47.63	2
2437MHz_TnomVnom	Pass	2.412525G	14.89	-15.11	2.30408G	-57.46	2.39952G	-54.02	2.49598G	-54.28	2.557215G	-52.25	1
2437MHz_TnomVnom	Pass	2.412525G	14.89	-15.11	2.302915G	-56.47	2.39952G	-53.98	2.49598G	-54.70	6.959799G	-53.11	2
2462MHz_TnomVnom	Pass	2.412525G	14.89	-15.11	2.30408G	-57.66	2.39824G	-56.60	2.48806G	-52.10	6.968228G	-52.51	1
2462MHz_TnomVnom	Pass	2.412525G	14.89	-15.11	2.307575G	-56.77	2.39096G	-56.43	2.48646G	-52.02	6.976657G	-52.90	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.438243G	12.98	-17.02	2.30408G	-55.11	2.39992G	-41.73	2.49598G	-49.70	3.214652G	-49.13	1
2412MHz_TnomVnom	Pass	2.438243G	12.98	-17.02	2.30175G	-56.08	2.39928G	-38.65	2.49598G	-53.69	6.982276G	-52.39	2
2437MHz_TnomVnom	Pass	2.438243G	12.98	-17.02	2.30408G	-56.04	2.39928G	-47.73	2.49598G	-47.93	2.557215G	-48.99	1
2437MHz_TnomVnom	Pass	2.438243G	12.98	-17.02	2.307575G	-55.32	2.39832G	-44.12	2.48846G	-50.29	6.95699G	-52.37	2
2462MHz_TnomVnom	Pass	2.438243G	12.98	-17.02	2.305245G	-54.70	2.39992G	-52.65	2.49598G	-47.77	2.560024G	-48.67	1
2462MHz_TnomVnom	Pass	2.438243G	12.98	-17.02	2.30641G	-56.86	2.39144G	-53.54	2.48358G	-49.42	6.965418G	-51.50	2
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.429392G	12.29	-17.71	2.30408G	-54.13	2.39992G	-42.15	2.49598G	-50.36	2.557215G	-49.60	1
2412MHz_TnomVnom	Pass	2.429392G	12.29	-17.71	2.30408G	-54.18	2.39992G	-40.72	2.49598G	-54.04	6.968228G	-53.26	2
2437MHz_TnomVnom	Pass	2.429392G	12.29	-17.71	2.19457G	-56.40	2.39952G	-44.58	2.49598G	-48.61	2.557215G	-50.29	1
2437MHz_TnomVnom	Pass	2.429392G	12.29	-17.71	2.30408G	-53.65	2.39952G	-42.25	2.48486G	-50.14	6.976657G	-52.23	2
2462MHz_TnomVnom	Pass	2.429392G	12.29	-17.71	2.30175G	-57.03	2.39904G	-52.06	2.48478G	-48.46	2.557215G	-47.31	1
2462MHz_TnomVnom	Pass	2.429392G	12.29	-17.71	2.30641G	-56.76	2.39424G	-53.04	2.48558G	-50.96	6.951371G	-53.21	2
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.434569G	2.77	-27.23	2.305115G	-54.41	2.39888G	-44.03	2.56014G	-47.31	3.228181G	-49.02	1
2422MHz_TnomVnom	Pass	2.434569G	2.77	-27.23	2.30626G	-55.88	2.39248G	-42.76	2.49598G	-50.31	24.399824G	-53.60	2
2437MHz_TnomVnom	Pass	2.434569G	2.77	-27.23	2.305115G	-54.77	2.3984G	-46.91	2.56014G	-47.09	3.247813G	-51.55	1
2437MHz_TnomVnom	Pass	2.434569G	2.77	-27.23	2.305115G	-56.89	2.39968G	-42.72	2.49598G	-50.96	25G	-53.71	2
2452MHz_TnomVnom	Pass	2.434569G	2.77	-27.23	2.305115G	-56.51	2.39568G	-55.32	2.4851G	-48.88	6.958249G	-53.09	1
2452MHz_TnomVnom	Pass	2.434569G	2.77	-27.23	2.17115G	-58.76	2.39264G	-55.67	2.48382G	-49.82	6.991904G	-53.59	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	55.22M	36.54	40.00	-3.46	-14.22	3	Horizontal	360	1.00	-

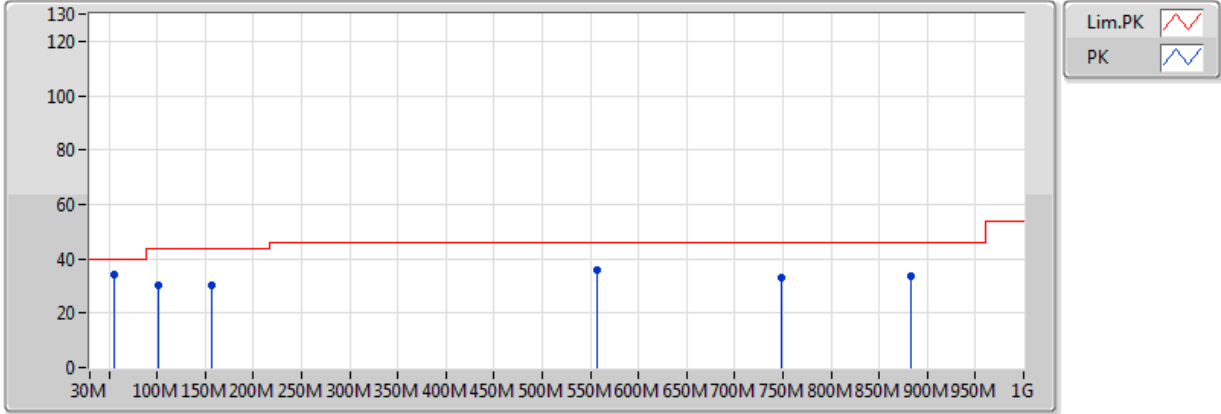


Result

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	55.22M	36.54	40.00	-3.46	-14.22	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	103.72M	29.96	43.50	-13.54	-9.95	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	148.34M	29.90	43.50	-13.60	-10.36	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	563.5M	31.77	46.00	-14.23	-1.14	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	726.46M	32.30	46.00	-13.70	0.21	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	837.04M	34.23	46.00	-11.77	1.84	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	101.78M	30.35	43.50	-13.15	-10.15	3	Vertical	0	1.00	-
2437MHz	Pass	PK	156.1M	30.31	43.50	-13.19	-10.50	3	Vertical	0	1.00	-
2437MHz	Pass	PK	557.68M	36.02	46.00	-9.98	-1.12	3	Vertical	0	1.00	-
2437MHz	Pass	PK	747.8M	32.80	46.00	-13.20	0.65	3	Vertical	0	1.00	-
2437MHz	Pass	PK	883.6M	33.83	46.00	-12.17	2.72	3	Vertical	0	1.00	-
2437MHz	Pass	QP	55.22M	34.25	40.00	-5.75	-14.22	3	Vertical	320	1.42	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_PoE

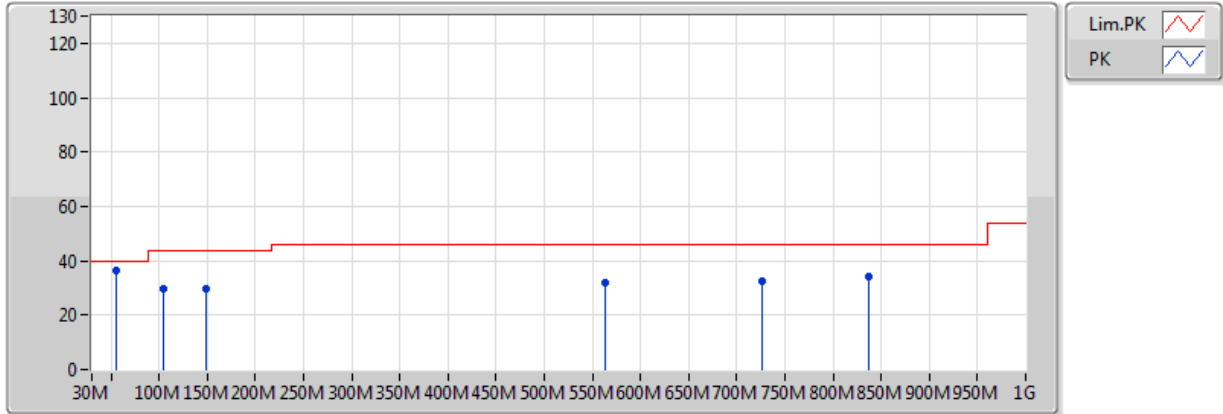


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	101.78M	30.35	43.50	-13.15	-10.15	3	Vertical	0	1.00	-	40.50	16.21	1.44	27.80
PK	156.1M	30.31	43.50	-13.19	-10.50	3	Vertical	0	1.00	-	40.81	15.23	1.88	27.61
PK	557.68M	36.02	46.00	-9.98	-1.12	3	Vertical	0	1.00	-	37.14	23.80	3.61	28.53
PK	747.8M	32.80	46.00	-13.20	0.65	3	Vertical	0	1.00	-	32.15	24.71	4.17	28.23
PK	883.6M	33.83	46.00	-12.17	2.72	3	Vertical	0	1.00	-	31.11	25.40	5.05	27.73
QP	55.22M	34.25	40.00	-5.75	-14.22	3	Vertical	320	1.42	-	48.47	12.27	1.09	27.58

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_PoE



EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	55.22M	36.54	40.00	-3.46	-14.22	3	Horizontal	360	1.00	-	50.76	12.27	1.09	27.58
PK	103.72M	29.96	43.50	-13.54	-9.95	3	Horizontal	360	1.00	-	39.91	16.41	1.44	27.80
PK	148.34M	29.90	43.50	-13.60	-10.36	3	Horizontal	360	1.00	-	40.26	15.57	1.71	27.63
PK	563.5M	31.77	46.00	-14.23	-1.14	3	Horizontal	360	1.00	-	32.91	23.78	3.61	28.53
PK	726.46M	32.30	46.00	-13.70	0.21	3	Horizontal	360	1.00	-	32.09	24.37	4.14	28.30
PK	837.04M	34.23	46.00	-11.77	1.84	3	Horizontal	360	1.00	-	32.39	25.14	4.63	27.92



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	2.3836G	53.26	54.00	-0.74	30.43	3	Vertical	14	1.56	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.4962G	53.23	54.00	-0.77	30.84	3	Vertical	211	1.49	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	2.39G	53.17	54.00	-0.83	30.45	3	Vertical	30	1.56	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	AV	2.4872G	53.64	54.00	-0.36	31.28	3	Vertical	20	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	2.3836G	53.26	54.00	-0.74	30.43	3	Vertical	14	1.56	-
2412MHz	Pass	AV	2.4142G	116.50	Inf	-Inf	30.54	3	Vertical	14	1.56	-
2412MHz	Pass	PK	2.3826G	63.35	74.00	-10.65	30.43	3	Vertical	14	1.56	-
2412MHz	Pass	PK	2.4148G	119.56	Inf	-Inf	30.54	3	Vertical	14	1.56	-
2412MHz	Pass	AV	4.824G	37.77	54.00	-16.23	5.90	3	Horizontal	45	1.62	-
2412MHz	Pass	PK	4.824G	49.11	74.00	-24.89	5.90	3	Horizontal	45	1.62	-
2412MHz	Pass	AV	4.824G	43.87	54.00	-10.13	5.90	3	Vertical	0	1.61	-
2412MHz	Pass	PK	4.824G	48.38	74.00	-25.62	5.90	3	Vertical	0	1.61	-
2437MHz	Pass	AV	2.3794G	47.64	54.00	-6.36	30.42	3	Vertical	205	1.50	-
2437MHz	Pass	AV	2.4378G	121.91	Inf	-Inf	30.63	3	Vertical	205	1.50	-
2437MHz	Pass	AV	2.4962G	53.22	54.00	-0.78	30.84	3	Vertical	205	1.50	-
2437MHz	Pass	PK	2.3722G	60.85	74.00	-13.15	30.39	3	Vertical	205	1.50	-
2437MHz	Pass	PK	2.4378G	124.49	Inf	-Inf	30.63	3	Vertical	205	1.50	-
2437MHz	Pass	PK	2.4962G	62.88	74.00	-11.12	30.84	3	Vertical	205	1.50	-
2437MHz	Pass	AV	4.874G	38.80	54.00	-15.20	6.01	3	Horizontal	58	1.61	-
2437MHz	Pass	PK	4.874G	46.85	74.00	-27.15	6.01	3	Horizontal	58	1.61	-
2437MHz	Pass	AV	4.874G	43.16	54.00	-10.84	6.01	3	Vertical	14	1.67	-
2437MHz	Pass	PK	4.874G	49.28	74.00	-24.72	6.01	3	Vertical	14	1.67	-
2462MHz	Pass	AV	2.459G	115.12	Inf	-Inf	30.70	3	Vertical	150	1.50	-
2462MHz	Pass	AV	2.4904G	53.18	54.00	-0.82	30.82	3	Vertical	150	1.50	-
2462MHz	Pass	PK	2.4592G	116.76	Inf	-Inf	30.70	3	Vertical	150	1.50	-
2462MHz	Pass	PK	2.4918G	63.40	74.00	-10.60	30.82	3	Vertical	150	1.50	-
2462MHz	Pass	AV	4.924G	38.96	54.00	-15.04	6.13	3	Horizontal	307	1.58	-
2462MHz	Pass	PK	4.924G	46.68	74.00	-27.32	6.13	3	Horizontal	307	1.58	-
2462MHz	Pass	AV	4.924G	43.37	54.00	-10.63	6.13	3	Vertical	11	1.52	-
2462MHz	Pass	PK	4.924G	48.62	74.00	-25.38	6.13	3	Vertical	11	1.52	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	53.15	54.00	-0.85	30.45	3	Vertical	30	1.50	-
2412MHz	Pass	AV	2.4102G	108.20	Inf	-Inf	30.53	3	Vertical	30	1.50	-
2412MHz	Pass	PK	2.39G	70.47	74.00	-3.53	30.45	3	Vertical	30	1.50	-
2412MHz	Pass	PK	2.4148G	119.70	Inf	-Inf	30.54	3	Vertical	30	1.50	-
2412MHz	Pass	AV	4.82389G	32.61	54.00	-21.39	5.89	3	Horizontal	360	1.50	-
2412MHz	Pass	PK	4.82334G	44.95	74.00	-29.05	5.89	3	Horizontal	360	1.50	-
2412MHz	Pass	AV	4.82402G	32.84	54.00	-21.16	5.90	3	Vertical	0	1.50	-
2412MHz	Pass	PK	4.82597G	44.95	74.00	-29.05	5.90	3	Vertical	0	1.50	-
2437MHz	Pass	AV	2.389998G	51.51	54.00	-2.49	30.45	3	Vertical	339	1.52	-
2437MHz	Pass	AV	2.435G	116.27	Inf	-Inf	30.62	3	Vertical	339	1.52	-
2437MHz	Pass	AV	2.4962G	52.94	54.00	-1.06	30.84	3	Vertical	339	1.52	-
2437MHz	Pass	PK	2.3862G	63.91	74.00	-10.09	30.44	3	Vertical	339	1.52	-
2437MHz	Pass	PK	2.4302G	126.55	Inf	-Inf	30.60	3	Vertical	339	1.52	-
2437MHz	Pass	PK	2.4846G	66.93	74.00	-7.07	30.79	3	Vertical	339	1.52	-
2437MHz	Pass	AV	4.87262G	32.92	54.00	-21.08	6.01	3	Horizontal	360	1.50	-
2437MHz	Pass	PK	4.87324G	45.03	74.00	-28.97	6.01	3	Horizontal	360	1.50	-
2437MHz	Pass	AV	4.87515G	34.04	54.00	-19.96	6.01	3	Vertical	0	1.50	-
2437MHz	Pass	PK	4.87637G	45.15	74.00	-28.85	6.02	3	Vertical	0	1.50	-
2462MHz	Pass	AV	2.385G	47.54	54.00	-6.46	30.44	3	Vertical	211	1.49	-
2462MHz	Pass	AV	2.4402G	108.93	Inf	-Inf	30.63	3	Vertical	211	1.49	-



RSE TX above 1GHz Result

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	AV	2.4962G	53.23	54.00	-0.77	30.84	3	Vertical	211	1.49	-
2462MHz	Pass	PK	2.383G	61.17	74.00	-12.83	30.43	3	Vertical	211	1.49	-
2462MHz	Pass	PK	2.4302G	120.10	Inf	-Inf	30.60	3	Vertical	211	1.49	-
2462MHz	Pass	PK	2.4966G	63.35	74.00	-10.65	30.84	3	Vertical	211	1.49	-
2462MHz	Pass	AV	4.92245G	32.50	54.00	-21.50	6.12	3	Horizontal	0	1.50	-
2462MHz	Pass	PK	4.92214G	44.32	74.00	-29.68	6.12	3	Horizontal	0	1.50	-
2462MHz	Pass	AV	4.92434G	32.31	54.00	-21.69	6.13	3	Vertical	360	1.50	-
2462MHz	Pass	PK	4.92479G	45.34	74.00	-28.66	6.13	3	Vertical	360	1.50	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	53.17	54.00	-0.83	30.45	3	Vertical	30	1.56	-
2412MHz	Pass	AV	2.4066G	107.24	Inf	-Inf	30.51	3	Vertical	30	1.56	-
2412MHz	Pass	PK	2.3898G	70.50	74.00	-3.50	30.45	3	Vertical	30	1.56	-
2412MHz	Pass	PK	2.4058G	118.42	Inf	-Inf	30.51	3	Vertical	30	1.56	-
2412MHz	Pass	AV	4.82607G	32.65	54.00	-21.35	5.90	3	Horizontal	0	1.50	-
2412MHz	Pass	PK	4.82446G	44.92	74.00	-29.08	5.90	3	Horizontal	0	1.50	-
2412MHz	Pass	AV	4.8227G	32.70	54.00	-21.30	5.89	3	Vertical	360	1.50	-
2412MHz	Pass	PK	4.82271G	44.91	74.00	-29.09	5.89	3	Vertical	360	1.50	-
2437MHz	Pass	AV	2.389998G	52.53	54.00	-1.47	30.45	3	Vertical	334	1.50	-
2437MHz	Pass	AV	2.4302G	116.33	Inf	-Inf	30.60	3	Vertical	334	1.50	-
2437MHz	Pass	AV	2.4962G	52.95	54.00	-1.05	30.84	3	Vertical	334	1.50	-
2437MHz	Pass	PK	2.389998G	68.37	74.00	-5.63	30.45	3	Vertical	334	1.50	-
2437MHz	Pass	PK	2.431G	126.18	Inf	-Inf	30.60	3	Vertical	334	1.50	-
2437MHz	Pass	PK	2.4922G	66.81	74.00	-7.19	30.82	3	Vertical	334	1.50	-
2437MHz	Pass	AV	4.87214G	32.93	54.00	-21.07	6.01	3	Horizontal	0	1.50	-
2437MHz	Pass	PK	4.87481G	45.39	74.00	-28.61	6.01	3	Horizontal	0	1.50	-
2437MHz	Pass	AV	4.8763G	33.72	54.00	-20.28	6.02	3	Vertical	360	1.50	-
2437MHz	Pass	PK	4.87525G	45.36	74.00	-28.64	6.01	3	Vertical	360	1.50	-
2462MHz	Pass	AV	2.4566G	109.07	Inf	-Inf	30.69	3	Vertical	157	1.49	-
2462MHz	Pass	AV	2.4962G	53.17	54.00	-0.83	30.84	3	Vertical	157	1.49	-
2462MHz	Pass	PK	2.4556G	120.16	Inf	-Inf	30.69	3	Vertical	157	1.49	-
2462MHz	Pass	PK	2.4836G	68.89	74.00	-5.11	30.79	3	Vertical	157	1.49	-
2462MHz	Pass	AV	4.9246G	32.54	54.00	-21.46	6.13	3	Horizontal	0	1.50	-
2462MHz	Pass	PK	4.92376G	44.97	74.00	-29.03	6.12	3	Horizontal	0	1.50	-
2462MHz	Pass	AV	4.9259G	32.81	54.00	-21.19	6.13	3	Vertical	360	1.50	-
2462MHz	Pass	PK	4.92174G	44.42	74.00	-29.58	6.12	3	Vertical	360	1.50	-
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.39G	52.84	54.00	-1.16	30.93	3	Vertical	31	1.50	-
2422MHz	Pass	AV	2.4172G	104.38	Inf	-Inf	31.03	3	Vertical	31	1.50	-
2422MHz	Pass	AV	2.496G	53.61	54.00	-0.39	31.32	3	Vertical	31	1.50	-
2422MHz	Pass	PK	2.386G	68.05	74.00	-5.95	30.92	3	Vertical	31	1.50	-
2422MHz	Pass	PK	2.4168G	114.10	Inf	-Inf	31.03	3	Vertical	31	1.50	-
2422MHz	Pass	PK	2.496G	62.85	74.00	-11.15	31.32	3	Vertical	31	1.50	-
2422MHz	Pass	AV	4.904G	32.50	54.00	-21.50	6.08	3	Horizontal	0	1.50	-
2422MHz	Pass	PK	4.904G	44.89	74.00	-29.11	6.08	3	Horizontal	0	1.50	-
2422MHz	Pass	AV	4.90606G	32.05	54.00	-21.95	6.08	3	Vertical	360	1.50	-
2422MHz	Pass	PK	4.90219G	44.77	74.00	-29.23	6.08	3	Vertical	360	1.50	-
2437MHz	Pass	AV	2.389998G	51.77	54.00	-2.23	30.45	3	Vertical	323	1.55	-
2437MHz	Pass	AV	2.4334G	105.26	Inf	-Inf	30.61	3	Vertical	323	1.55	-
2437MHz	Pass	AV	2.4962G	53.20	54.00	-0.80	30.84	3	Vertical	323	1.55	-



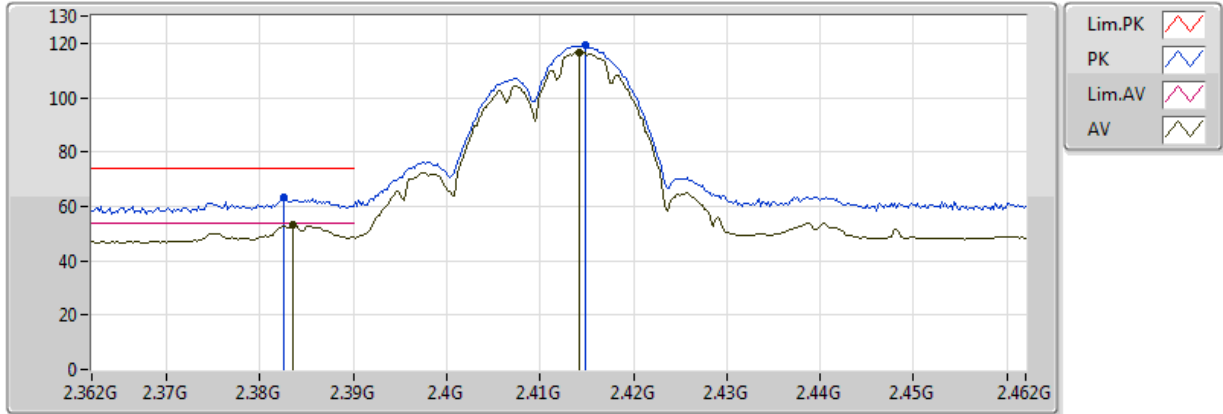
RSE TX above 1GHz Result

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	2.389G	65.15	74.00	-8.85	30.45	3	Vertical	323	1.55	-
2437MHz	Pass	PK	2.4326G	115.39	Inf	-Inf	30.61	3	Vertical	323	1.55	-
2437MHz	Pass	PK	2.491G	66.54	74.00	-7.46	30.82	3	Vertical	323	1.55	-
2437MHz	Pass	AV	4.8707G	32.96	54.00	-21.04	6.00	3	Horizontal	360	1.50	-
2437MHz	Pass	PK	4.8748G	44.67	74.00	-29.33	6.01	3	Horizontal	360	1.50	-
2437MHz	Pass	AV	4.8743G	32.89	54.00	-21.11	6.01	3	Vertical	0	1.50	-
2437MHz	Pass	PK	4.8754G	44.49	74.00	-29.51	6.01	3	Vertical	0	1.50	-
2452MHz	Pass	AV	2.39G	46.67	54.00	-7.33	30.93	3	Vertical	20	1.50	-
2452MHz	Pass	AV	2.448G	101.84	Inf	-Inf	31.14	3	Vertical	20	1.50	-
2452MHz	Pass	AV	2.4872G	53.64	54.00	-0.36	31.28	3	Vertical	20	1.50	-
2452MHz	Pass	PK	2.376G	59.52	74.00	-14.48	30.89	3	Vertical	20	1.50	-
2452MHz	Pass	PK	2.4492G	111.99	Inf	-Inf	31.15	3	Vertical	20	1.50	-
2452MHz	Pass	PK	2.4868G	66.50	74.00	-7.50	31.28	3	Vertical	20	1.50	-
2452MHz	Pass	AV	4.90886G	32.10	54.00	-21.90	6.09	3	Horizontal	360	1.50	-
2452MHz	Pass	PK	4.90248G	44.23	74.00	-29.77	6.08	3	Horizontal	360	1.50	-
2452MHz	Pass	AV	4.90822G	32.43	54.00	-21.57	6.09	3	Vertical	0	1.50	-
2452MHz	Pass	PK	4.90772G	45.08	74.00	-28.92	6.09	3	Vertical	0	1.50	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

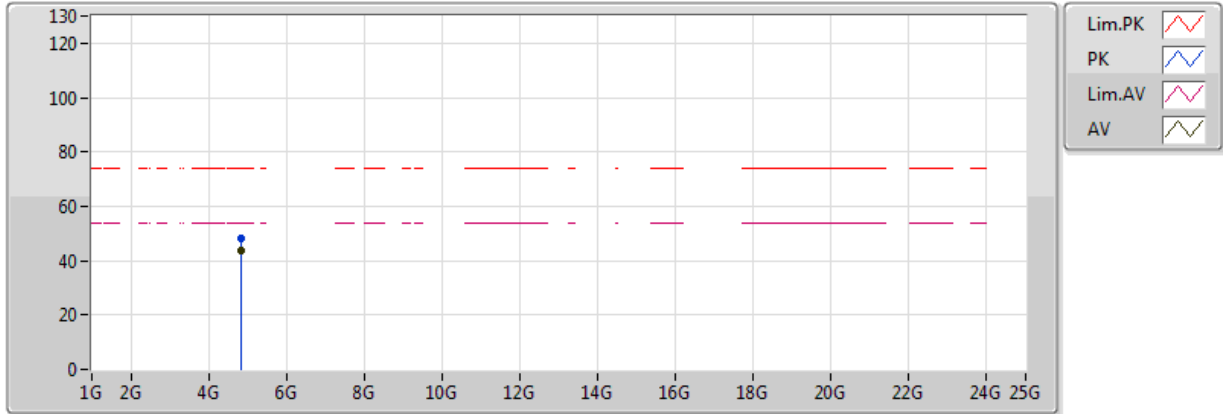


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3836G	53.26	54.00	-0.74	30.43	3	Vertical	14	1.56	-	22.83	27.20	3.24	-
AV	2.4142G	116.50	Inf	-Inf	30.54	3	Vertical	14	1.56	-	85.96	27.28	3.26	-
PK	2.3826G	63.35	74.00	-10.65	30.43	3	Vertical	14	1.56	-	32.93	27.19	3.23	-
PK	2.4148G	119.56	Inf	-Inf	30.54	3	Vertical	14	1.56	-	89.02	27.28	3.26	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

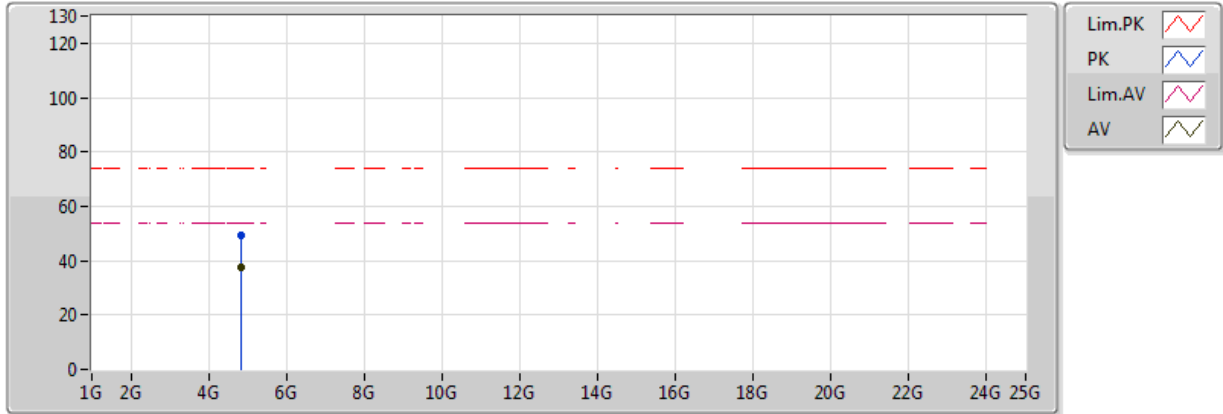


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.824G	43.87	54.00	-10.13	5.90	3	Vertical	0	1.61	-	37.97	31.22	4.52	29.85
PK	4.824G	48.38	74.00	-25.62	5.90	3	Vertical	0	1.61	-	42.48	31.22	4.52	29.85

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

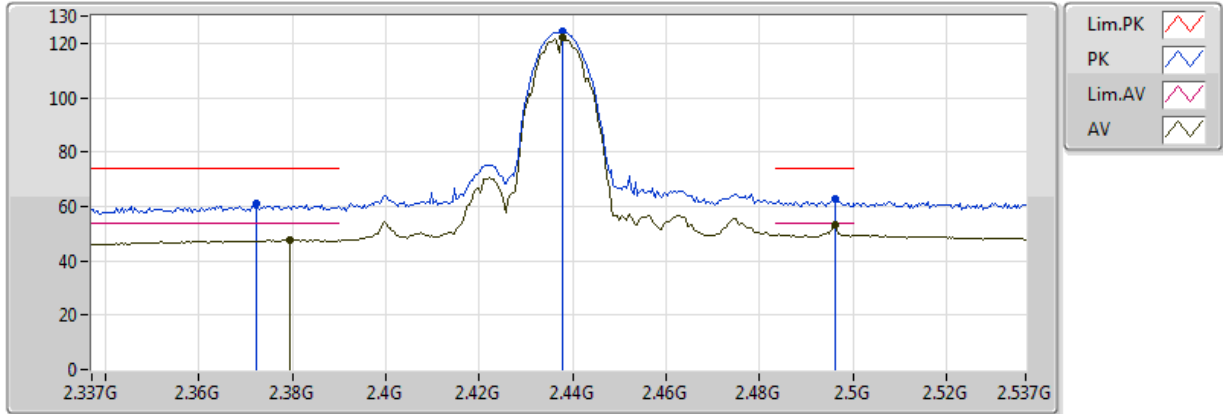


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.824G	37.77	54.00	-16.23	5.90	3	Horizontal	45	1.62	-	31.87	31.22	4.52	29.85
PK	4.824G	49.11	74.00	-24.89	5.90	3	Horizontal	45	1.62	-	43.21	31.22	4.52	29.85

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX



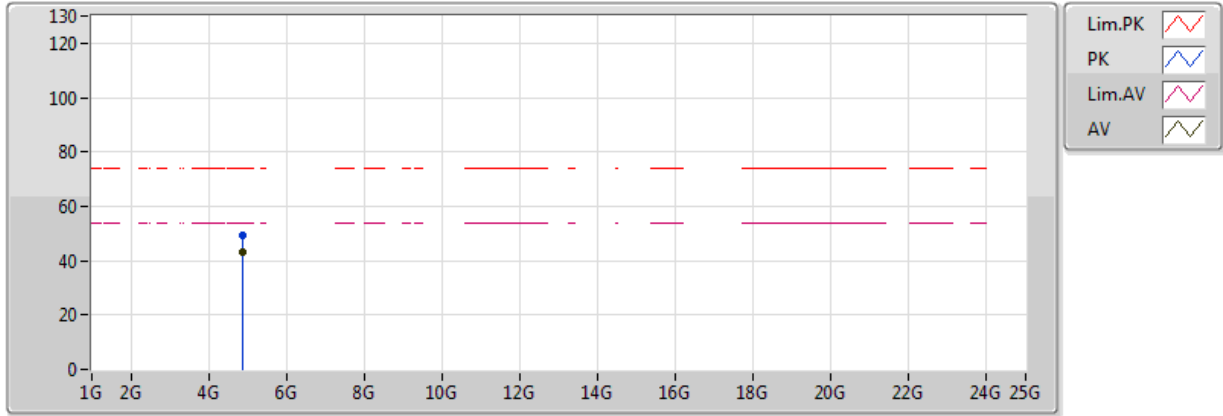
EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3794G	47.64	54.00	-6.36	30.42	3	Vertical	205	1.50	-	17.22	27.19	3.23	-
AV	2.4378G	121.91	Inf	-Inf	30.63	3	Vertical	205	1.50	-	91.29	27.34	3.29	-
AV	2.4962G	53.22	54.00	-0.78	30.84	3	Vertical	205	1.50	-	22.38	27.49	3.35	-
PK	2.3722G	60.85	74.00	-13.15	30.39	3	Vertical	205	1.50	-	30.46	27.17	3.22	-
PK	2.4378G	124.49	Inf	-Inf	30.63	3	Vertical	205	1.50	-	93.87	27.34	3.29	-
PK	2.4962G	62.88	74.00	-11.12	30.84	3	Vertical	205	1.50	-	32.04	27.49	3.35	-



802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

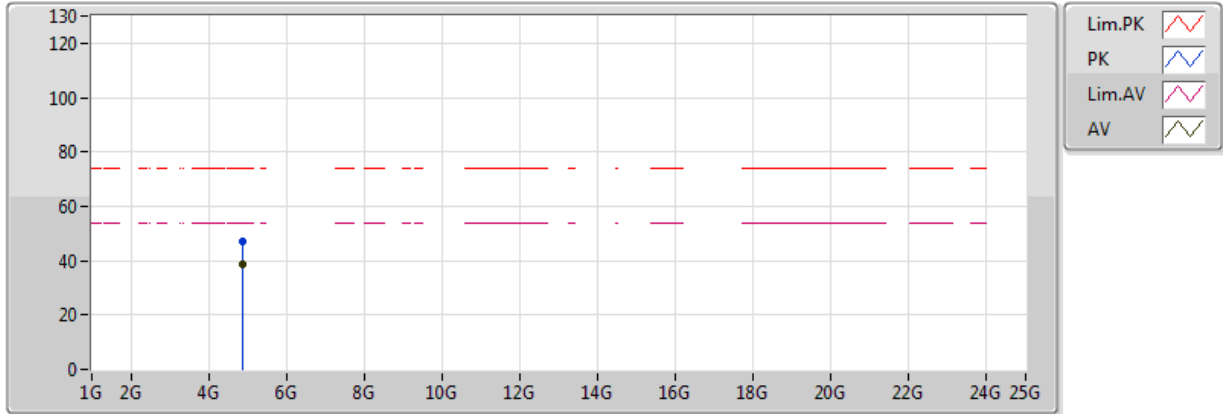


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.874G	43.16	54.00	-10.84	6.01	3	Vertical	14	1.67	-	37.15	31.30	4.55	29.84
PK	4.874G	49.28	74.00	-24.72	6.01	3	Vertical	14	1.67	-	43.27	31.30	4.55	29.84

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

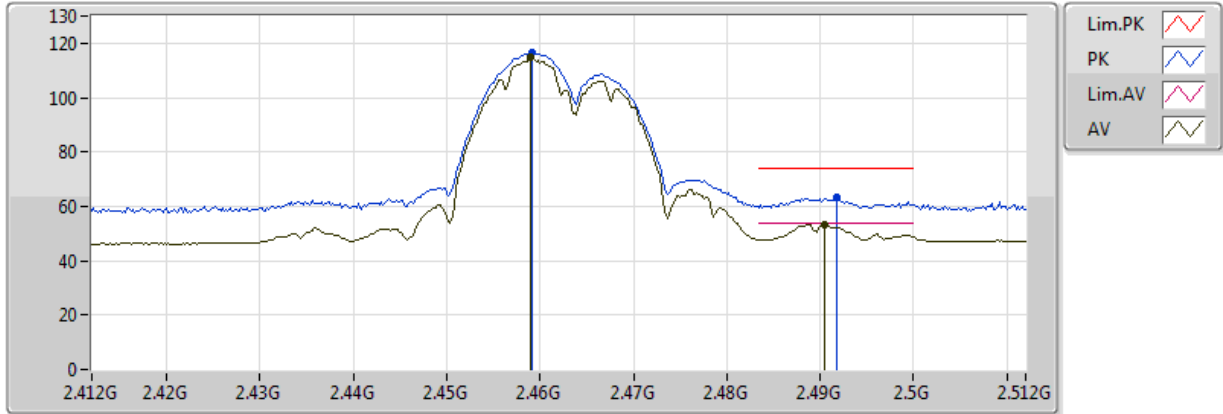


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.874G	38.80	54.00	-15.20	6.01	3	Horizontal	58	1.61	-	32.79	31.30	4.55	29.84
PK	4.874G	46.85	74.00	-27.15	6.01	3	Horizontal	58	1.61	-	40.84	31.30	4.55	29.84

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

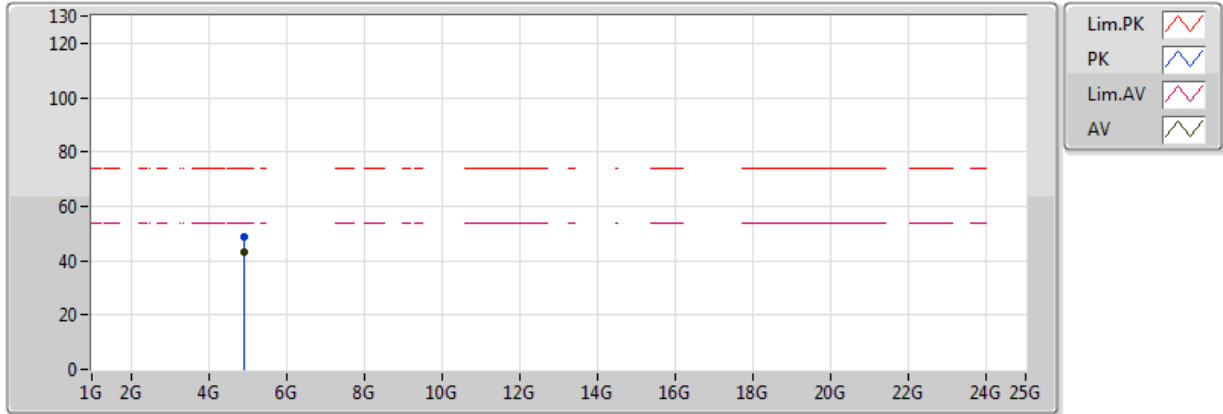


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.459G	115.12	Inf	-Inf	30.70	3	Vertical	150	1.50	-	84.42	27.39	3.31	-
AV	2.4904G	53.18	54.00	-0.82	30.82	3	Vertical	150	1.50	-	22.36	27.48	3.34	-
PK	2.4592G	116.76	Inf	-Inf	30.70	3	Vertical	150	1.50	-	86.06	27.39	3.31	-
PK	2.4918G	63.40	74.00	-10.60	30.82	3	Vertical	150	1.50	-	32.58	27.48	3.34	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX



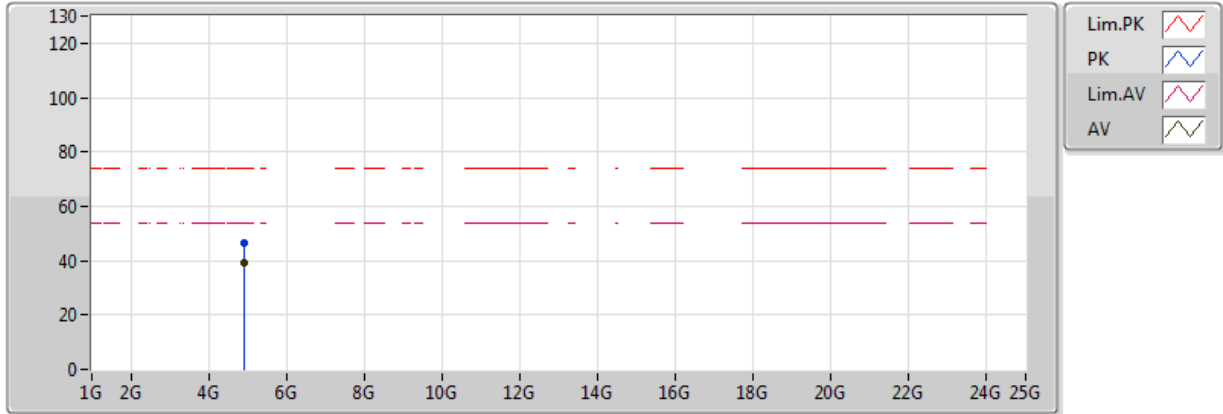
EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.924G	43.37	54.00	-10.63	6.13	3	Vertical	11	1.52	-	37.24	31.38	4.57	29.83
PK	4.924G	48.62	74.00	-25.38	6.13	3	Vertical	11	1.52	-	42.49	31.38	4.57	29.83



802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

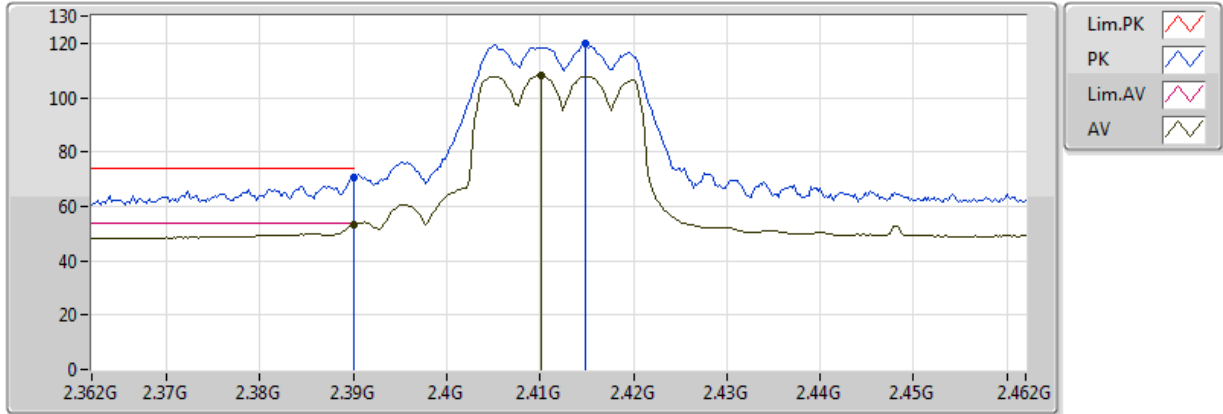


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.924G	38.96	54.00	-15.04	6.13	3	Horizontal	307	1.58	-	32.83	31.38	4.57	29.83
PK	4.924G	46.68	74.00	-27.32	6.13	3	Horizontal	307	1.58	-	40.55	31.38	4.57	29.83

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

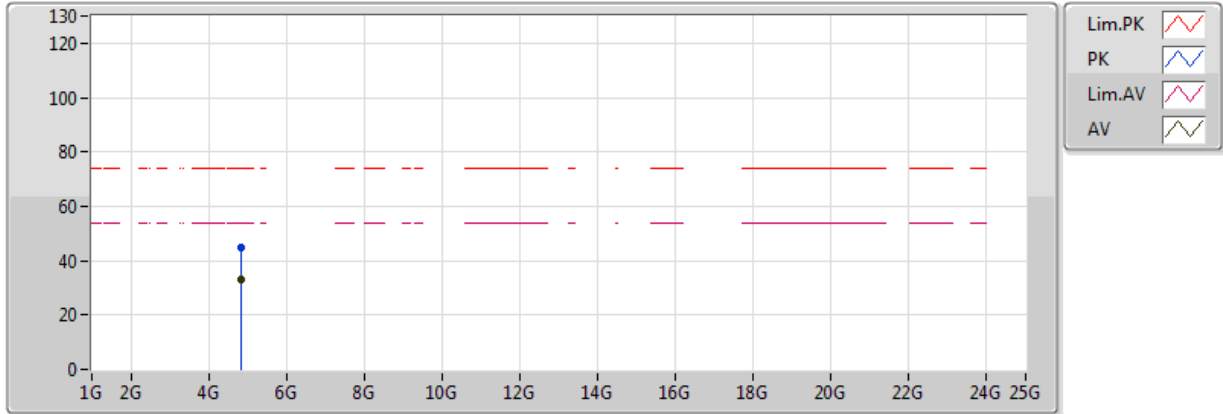


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	53.15	54.00	-0.85	30.45	3	Vertical	30	1.50	-	22.70	27.21	3.24	-
AV	2.4102G	108.20	Inf	-Inf	30.53	3	Vertical	30	1.50	-	77.67	27.27	3.26	-
PK	2.39G	70.47	74.00	-3.53	30.45	3	Vertical	30	1.50	-	40.02	27.21	3.24	-
PK	2.4148G	119.70	Inf	-Inf	30.54	3	Vertical	30	1.50	-	89.16	27.28	3.26	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

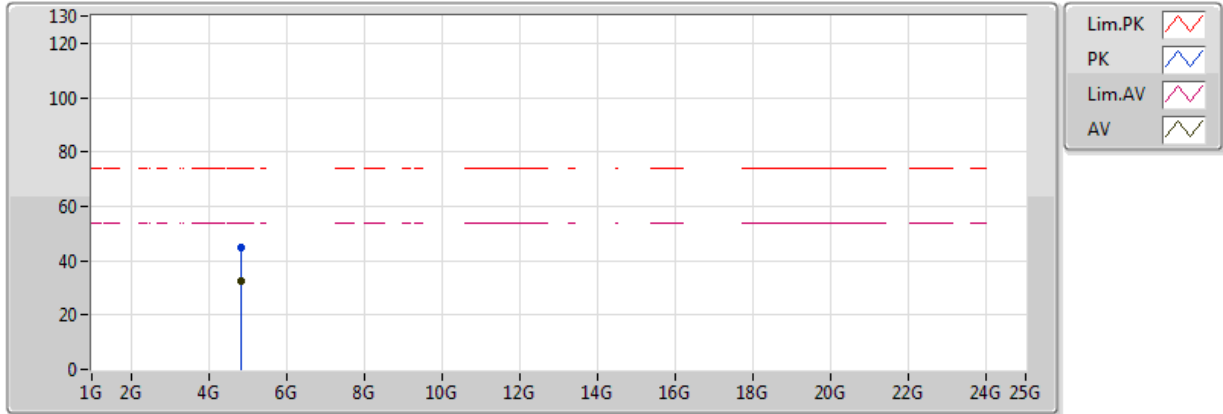


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82402G	32.84	54.00	-21.16	5.90	3	Vertical	0	1.50	-	26.95	31.22	4.52	29.85
PK	4.82597G	44.95	74.00	-29.05	5.90	3	Vertical	0	1.50	-	39.05	31.22	4.52	29.84

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

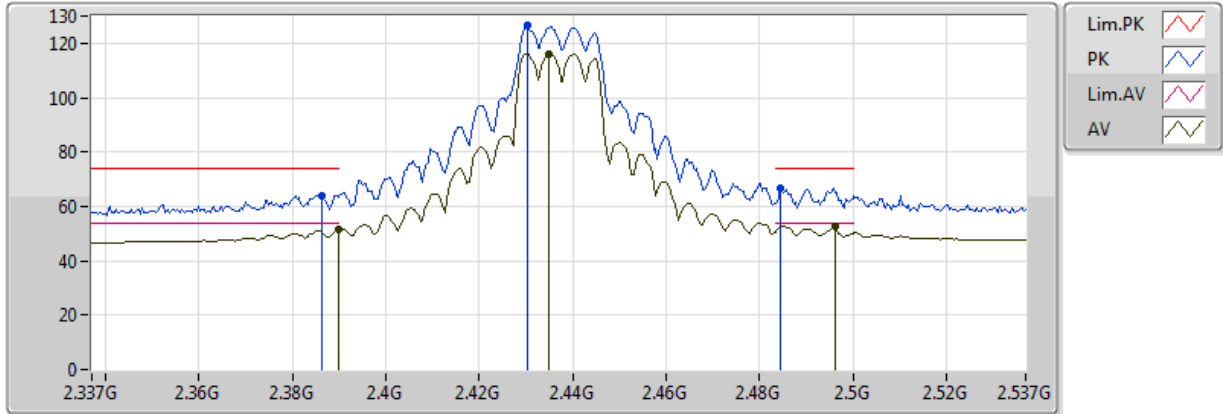


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82389G	32.61	54.00	-21.39	5.89	3	Horizontal	360	1.50	-	26.71	31.22	4.52	29.85
PK	4.82334G	44.95	74.00	-29.05	5.89	3	Horizontal	360	1.50	-	39.06	31.22	4.52	29.85

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

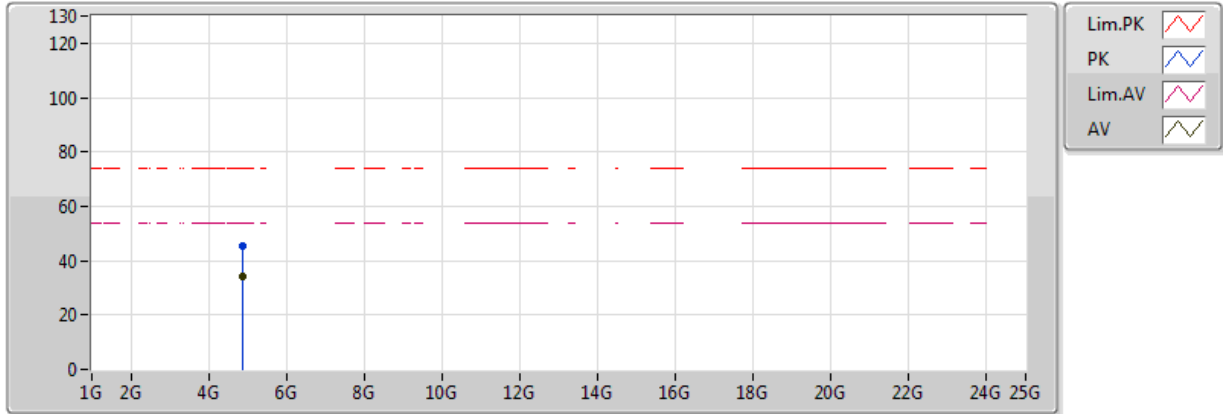


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.389998G	51.51	54.00	-2.49	30.45	3	Vertical	339	1.52	-	21.06	27.21	3.24	-
AV	2.435G	116.27	Inf	-Inf	30.62	3	Vertical	339	1.52	-	85.65	27.33	3.29	-
AV	2.4962G	52.94	54.00	-1.06	30.84	3	Vertical	339	1.52	-	22.10	27.49	3.35	-
PK	2.3862G	63.91	74.00	-10.09	30.44	3	Vertical	339	1.52	-	33.47	27.20	3.24	-
PK	2.4302G	126.55	Inf	-Inf	30.60	3	Vertical	339	1.52	-	95.95	27.32	3.28	-
PK	2.4846G	66.93	74.00	-7.07	30.79	3	Vertical	339	1.52	-	36.13	27.46	3.33	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

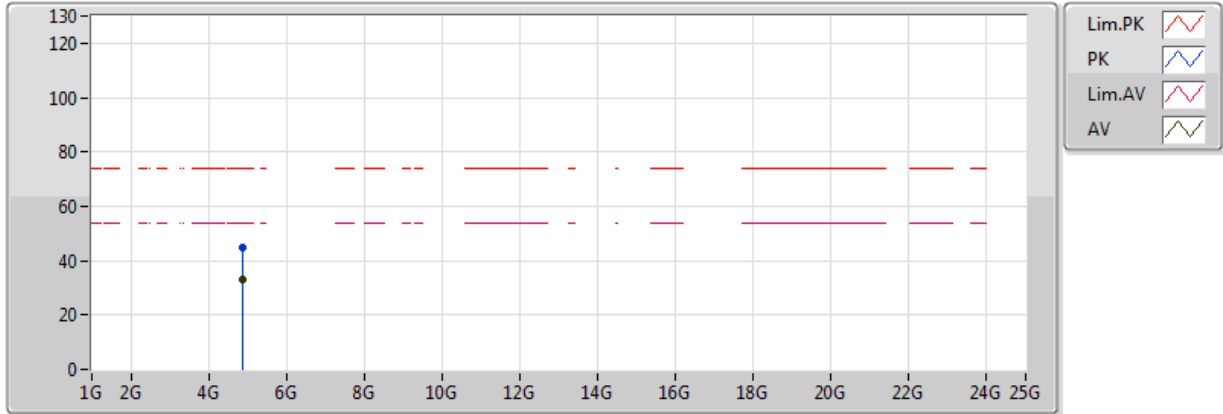


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87515G	34.04	54.00	-19.96	6.01	3	Vertical	0	1.50	-	28.03	31.30	4.55	29.83
PK	4.87637G	45.15	74.00	-28.85	6.02	3	Vertical	0	1.50	-	39.14	31.30	4.55	29.83

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

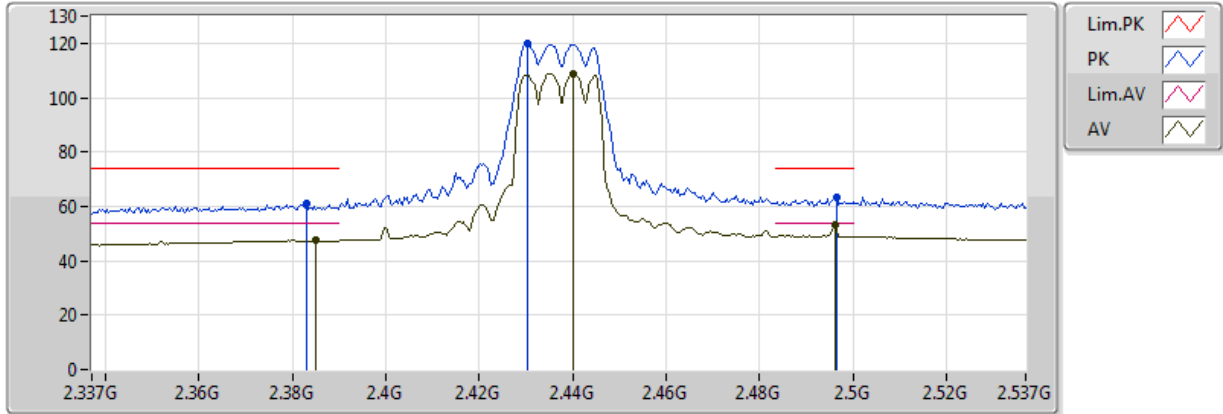


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87262G	32.92	54.00	-21.08	6.01	3	Horizontal	360	1.50	-	26.92	31.30	4.55	29.84
PK	4.87324G	45.03	74.00	-28.97	6.01	3	Horizontal	360	1.50	-	39.02	31.30	4.55	29.84

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

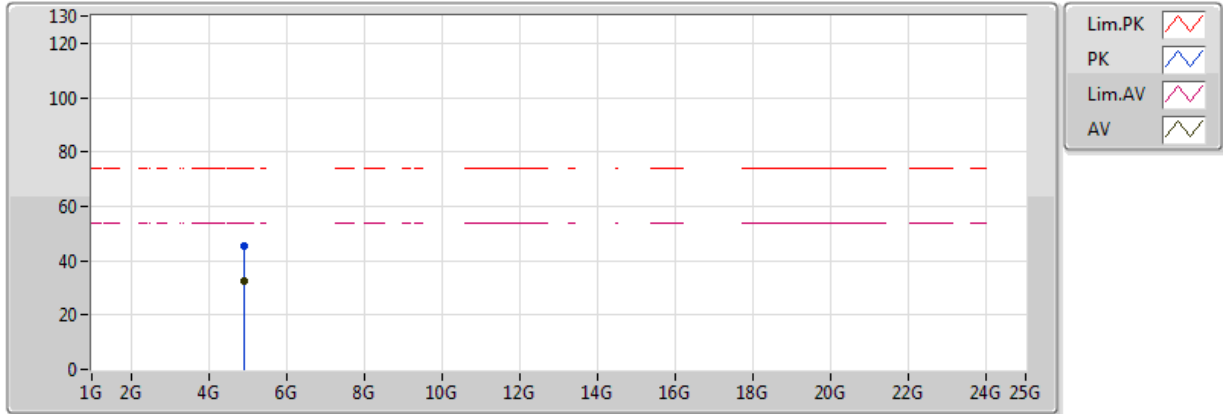


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.385G	47.54	54.00	-6.46	30.44	3	Vertical	211	1.49	-	17.10	27.20	3.24	-
AV	2.4402G	108.93	Inf	-Inf	30.63	3	Vertical	211	1.49	-	78.30	27.34	3.29	-
AV	2.4962G	53.23	54.00	-0.77	30.84	3	Vertical	211	1.49	-	22.39	27.49	3.35	-
PK	2.383G	61.17	74.00	-12.83	30.43	3	Vertical	211	1.49	-	30.74	27.20	3.23	-
PK	2.4302G	120.10	Inf	-Inf	30.60	3	Vertical	211	1.49	-	89.50	27.32	3.28	-
PK	2.4966G	63.35	74.00	-10.65	30.84	3	Vertical	211	1.49	-	32.51	27.49	3.35	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

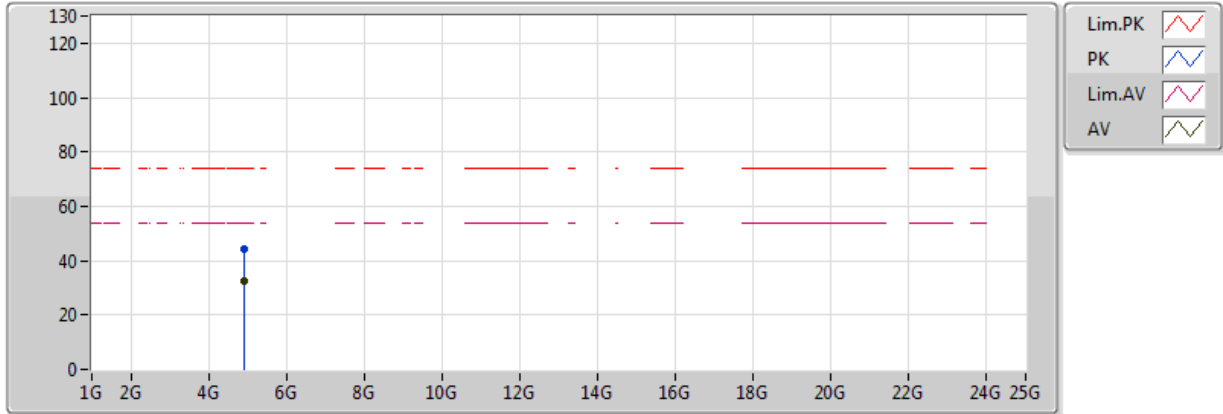


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92434G	32.31	54.00	-21.69	6.13	3	Vertical	360	1.50	-	26.18	31.38	4.57	29.83
PK	4.92479G	45.34	74.00	-28.66	6.13	3	Vertical	360	1.50	-	39.21	31.38	4.57	29.83

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

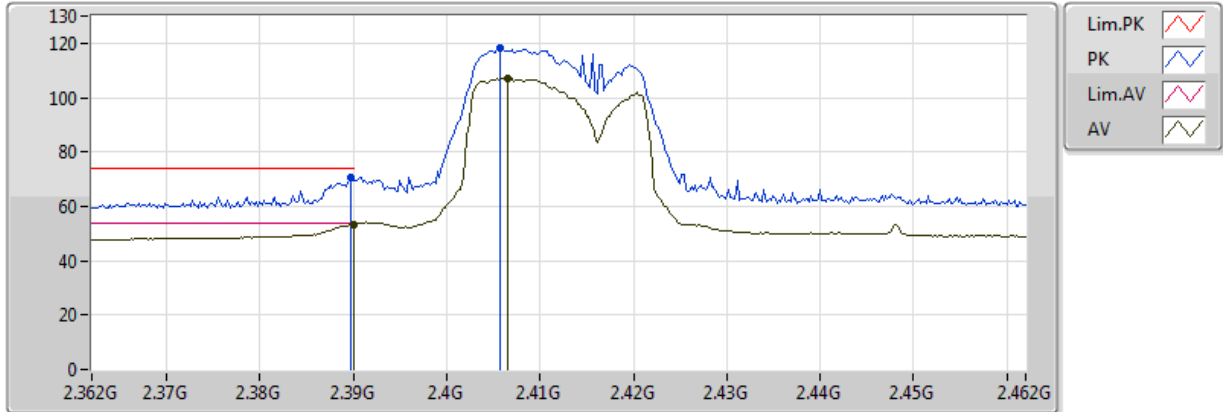


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92245G	32.50	54.00	-21.50	6.12	3	Horizontal	0	1.50	-	26.38	31.38	4.57	29.83
PK	4.92214G	44.32	74.00	-29.68	6.12	3	Horizontal	0	1.50	-	38.20	31.38	4.57	29.83

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

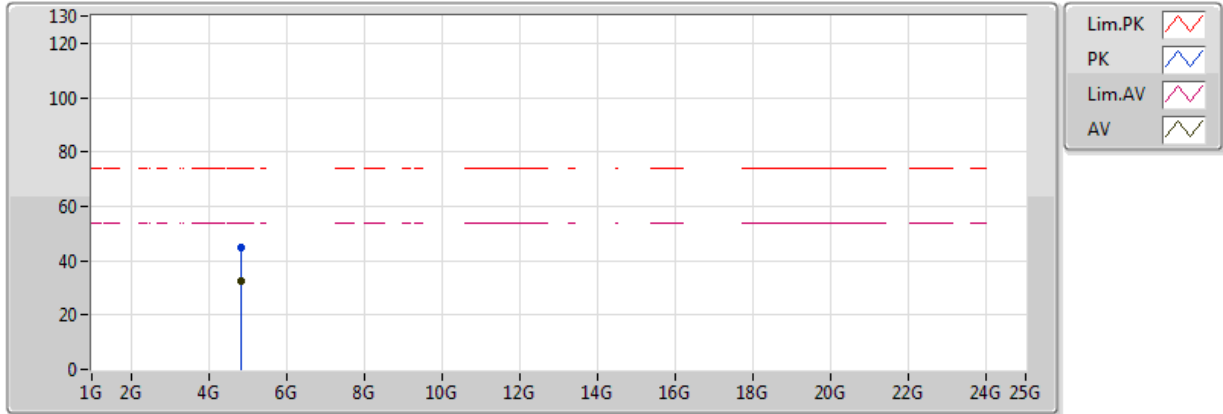


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	53.17	54.00	-0.83	30.45	3	Vertical	30	1.56	-	22.72	27.21	3.24	-
AV	2.4066G	107.24	Inf	-Inf	30.51	3	Vertical	30	1.56	-	76.73	27.26	3.26	-
PK	2.3898G	70.50	74.00	-3.50	30.45	3	Vertical	30	1.56	-	40.04	27.21	3.24	-
PK	2.4058G	118.42	Inf	-Inf	30.51	3	Vertical	30	1.56	-	87.91	27.26	3.26	-

802.11n HT20_Nss1,(MCS0)_2TX

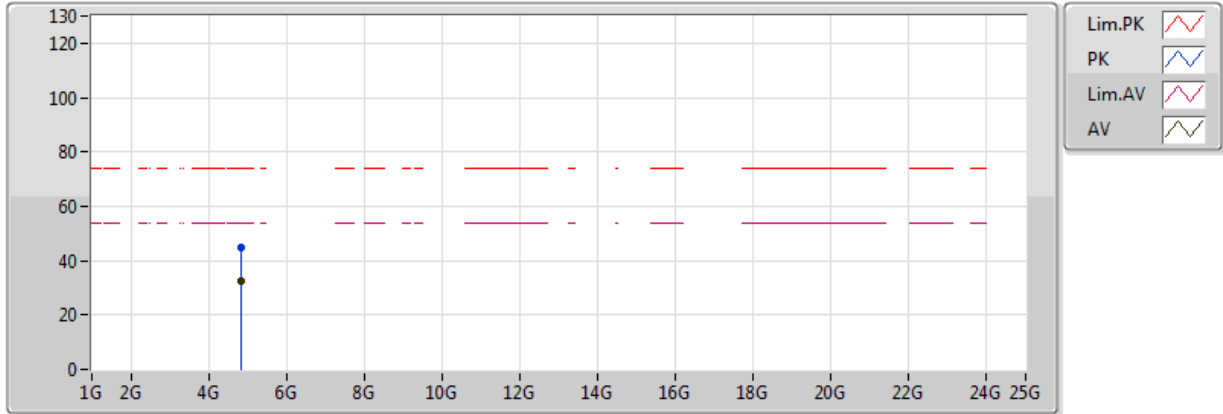
2412MHz_TX



EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8227G	32.70	54.00	-21.30	5.89	3	Vertical	360	1.50	-	26.81	31.22	4.52	29.85
PK	4.82271G	44.91	74.00	-29.09	5.89	3	Vertical	360	1.50	-	39.02	31.22	4.52	29.85

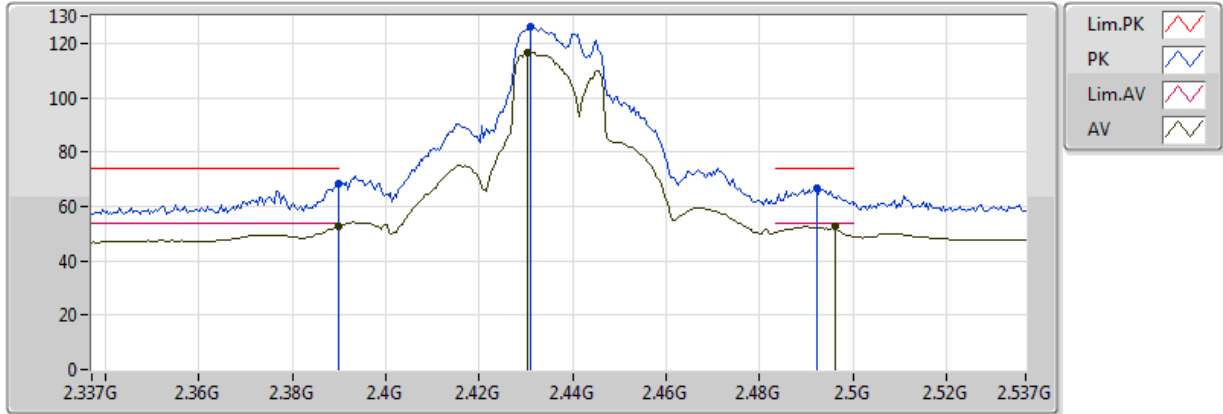
**802.11n HT20_Nss1,(MCS0)_2TX
2412MHz_TX**



EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82607G	32.65	54.00	-21.35	5.90	3	Horizontal	0	1.50	-	26.75	31.22	4.52	29.84
PK	4.82446G	44.92	74.00	-29.08	5.90	3	Horizontal	0	1.50	-	39.02	31.22	4.52	29.85

**802.11n HT20_Nss1,(MCS0)_2TX
2437MHz_TX**

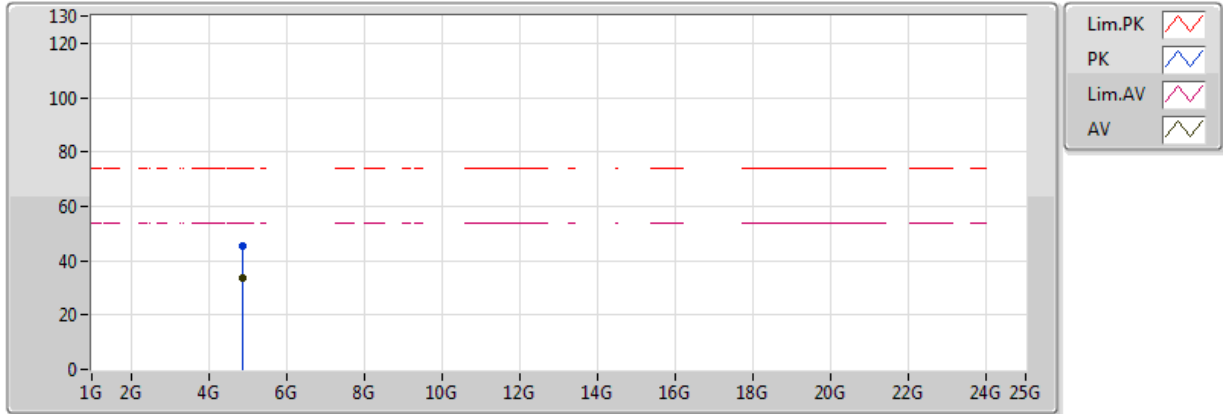


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.389998G	52.53	54.00	-1.47	30.45	3	Vertical	334	1.50	-	22.08	27.21	3.24	-
AV	2.4302G	116.33	Inf	-Inf	30.60	3	Vertical	334	1.50	-	85.73	27.32	3.28	-
AV	2.4962G	52.95	54.00	-1.05	30.84	3	Vertical	334	1.50	-	22.12	27.49	3.35	-
PK	2.389998G	68.37	74.00	-5.63	30.45	3	Vertical	334	1.50	-	37.92	27.21	3.24	-
PK	2.431G	126.18	Inf	-Inf	30.60	3	Vertical	334	1.50	-	95.58	27.32	3.28	-
PK	2.4922G	66.81	74.00	-7.19	30.82	3	Vertical	334	1.50	-	35.99	27.48	3.34	-

802.11n HT20_Nss1,(MCS0)_2TX

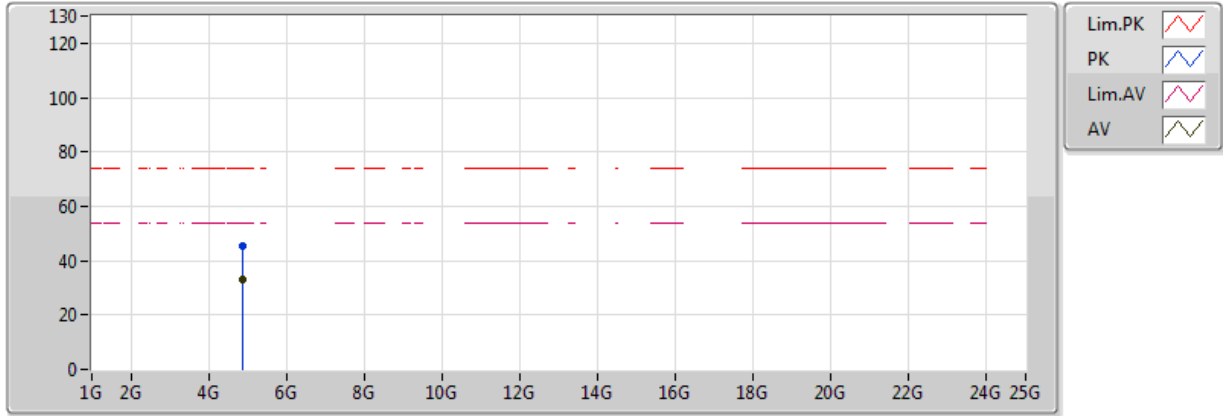
2437MHz_TX



EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8763G	33.72	54.00	-20.28	6.02	3	Vertical	360	1.50	-	27.70	31.30	4.55	29.83
PK	4.87525G	45.36	74.00	-28.64	6.01	3	Vertical	360	1.50	-	39.35	31.30	4.55	29.83

**802.11n HT20_Nss1,(MCS0)_2TX
2437MHz_TX**

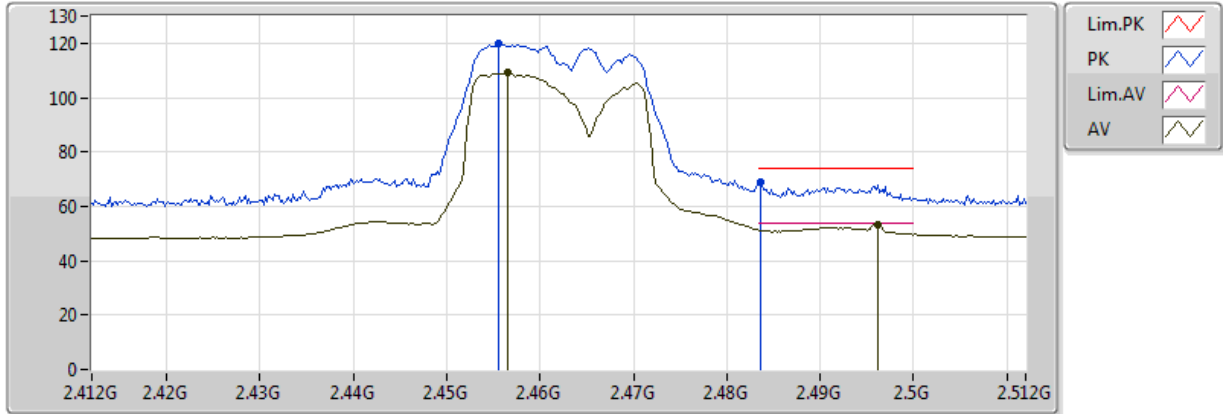


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87214G	32.93	54.00	-21.07	6.01	3	Horizontal	0	1.50	-	26.93	31.30	4.55	29.84
PK	4.87481G	45.39	74.00	-28.61	6.01	3	Horizontal	0	1.50	-	39.38	31.30	4.55	29.84

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

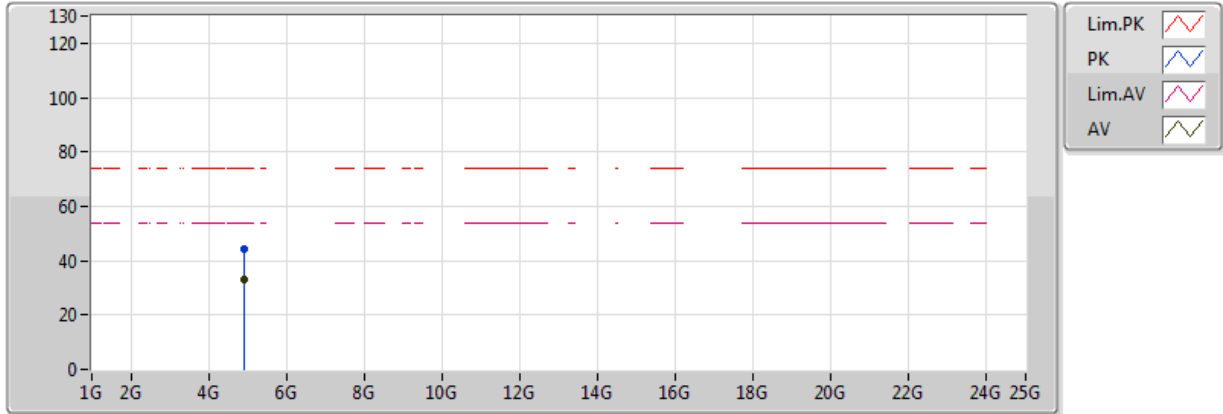


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4566G	109.07	Inf	-Inf	30.69	3	Vertical	157	1.49	-	78.38	27.39	3.31	-
AV	2.4962G	53.17	54.00	-0.83	30.84	3	Vertical	157	1.49	-	22.33	27.49	3.35	-
PK	2.4556G	120.16	Inf	-Inf	30.69	3	Vertical	157	1.49	-	89.47	27.38	3.31	-
PK	2.4836G	68.89	74.00	-5.11	30.79	3	Vertical	157	1.49	-	38.10	27.46	3.33	-

802.11n HT20_Nss1,(MCS0)_2TX

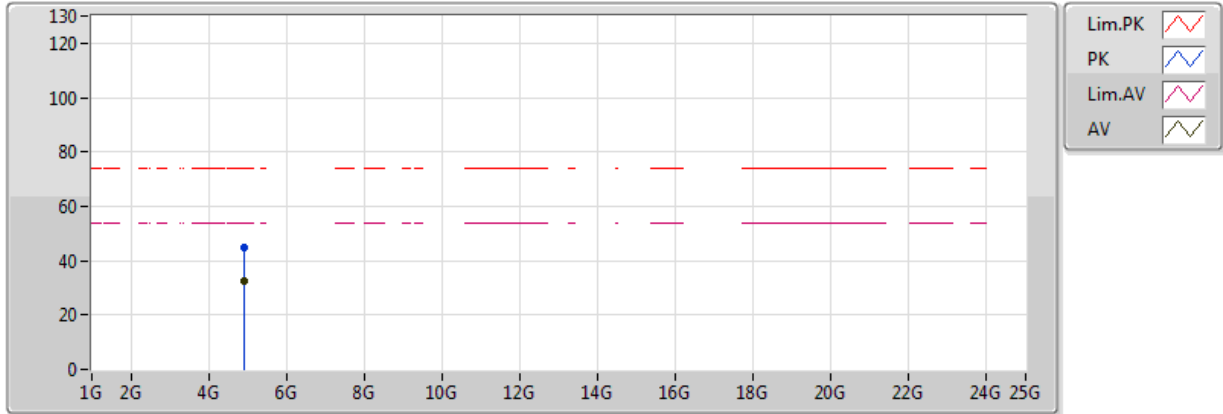
2462MHz_TX



EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9259G	32.81	54.00	-21.19	6.13	3	Vertical	360	1.50	-	26.68	31.38	4.57	29.82
PK	4.92174G	44.42	74.00	-29.58	6.12	3	Vertical	360	1.50	-	38.30	31.37	4.57	29.83

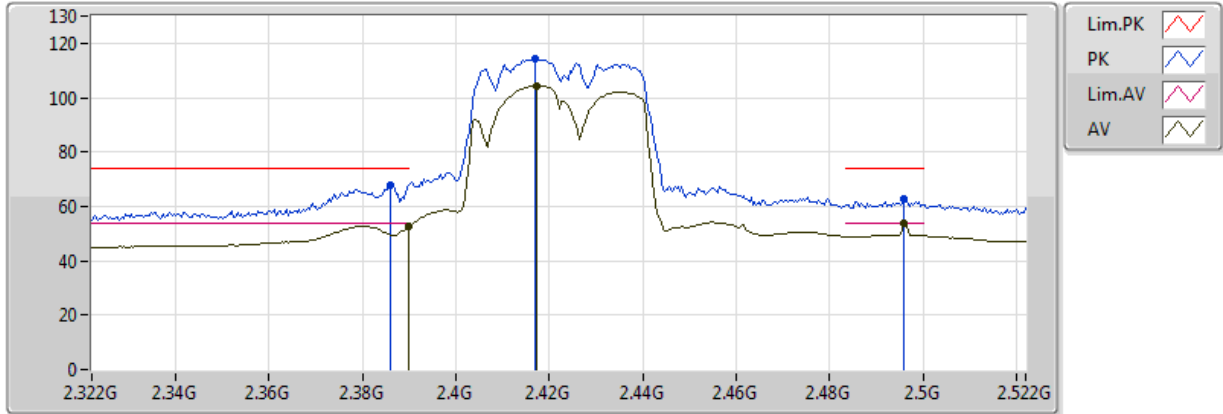
802.11n HT20_Nss1,(MCS0)_2TX 2462MHz_TX



EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9246G	32.54	54.00	-21.46	6.13	3	Horizontal	0	1.50	-	26.42	31.38	4.57	29.83
PK	4.92376G	44.97	74.00	-29.03	6.12	3	Horizontal	0	1.50	-	38.84	31.38	4.57	29.83

**802.11n HT40_Nss1,(MCS0)_2TX
2422MHz_TX**

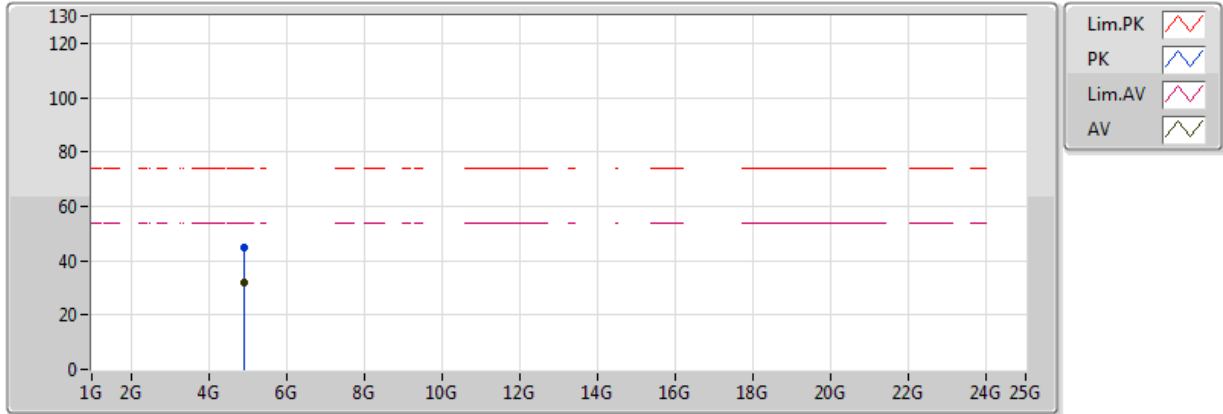


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	52.84	54.00	-1.16	30.93	3	Vertical	31	1.50	-	21.91	27.31	3.62	-
AV	2.4172G	104.38	Inf	-Inf	31.03	3	Vertical	31	1.50	-	73.35	27.38	3.65	-
AV	2.496G	53.61	54.00	-0.39	31.32	3	Vertical	31	1.50	-	22.29	27.59	3.73	-
PK	2.386G	68.05	74.00	-5.95	30.92	3	Vertical	31	1.50	-	37.13	27.30	3.62	-
PK	2.4168G	114.10	Inf	-Inf	31.03	3	Vertical	31	1.50	-	83.07	27.38	3.65	-
PK	2.496G	62.85	74.00	-11.15	31.32	3	Vertical	31	1.50	-	31.54	27.59	3.73	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

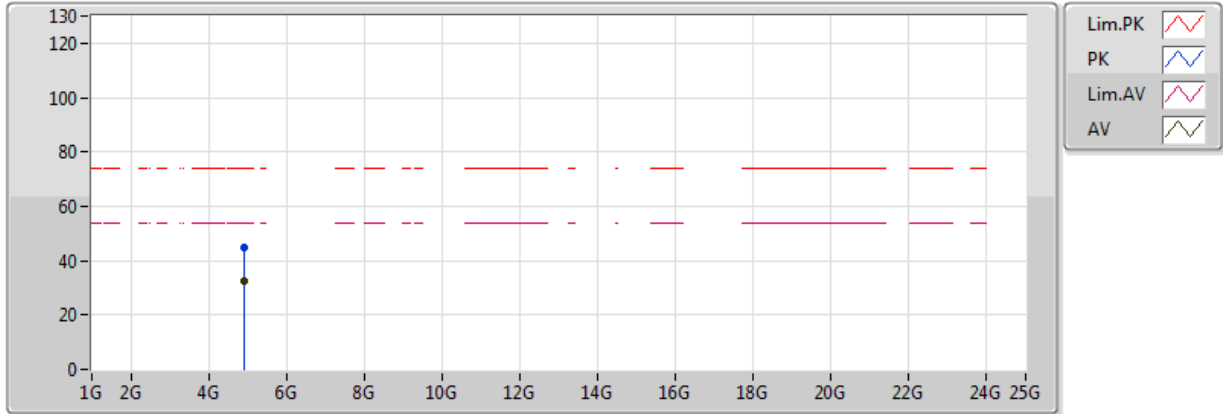


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.90606G	32.05	54.00	-21.95	6.08	3	Vertical	360	1.50	-	25.96	31.35	4.56	29.83
PK	4.90219G	44.77	74.00	-29.23	6.08	3	Vertical	360	1.50	-	38.69	31.34	4.56	29.83

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

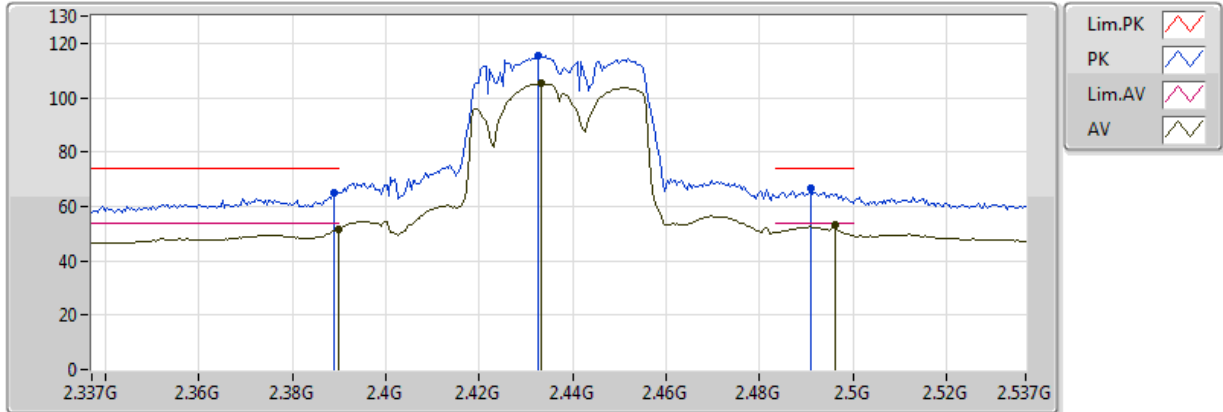


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.904G	32.50	54.00	-21.50	6.08	3	Horizontal	0	1.50	-	26.42	31.35	4.56	29.83
PK	4.904G	44.89	74.00	-29.11	6.08	3	Horizontal	0	1.50	-	38.81	31.35	4.56	29.83

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

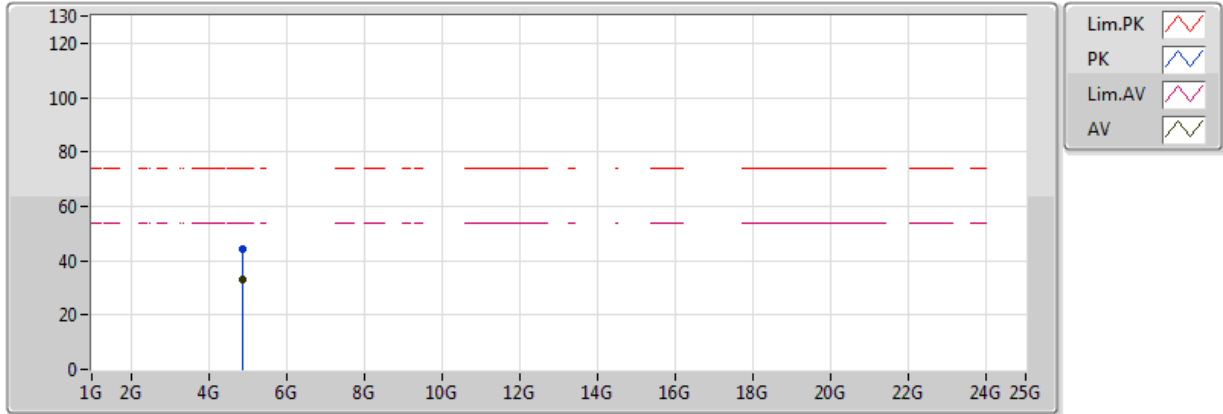


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.389998G	51.77	54.00	-2.23	30.45	3	Vertical	323	1.55	-	21.31	27.21	3.24	-
AV	2.4334G	105.26	Inf	-Inf	30.61	3	Vertical	323	1.55	-	74.65	27.33	3.28	-
AV	2.4962G	53.20	54.00	-0.80	30.84	3	Vertical	323	1.55	-	22.36	27.49	3.35	-
PK	2.389G	65.15	74.00	-8.85	30.45	3	Vertical	323	1.55	-	34.70	27.21	3.24	-
PK	2.4326G	115.39	Inf	-Inf	30.61	3	Vertical	323	1.55	-	84.78	27.32	3.28	-
PK	2.491G	66.54	74.00	-7.46	30.82	3	Vertical	323	1.55	-	35.72	27.48	3.34	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

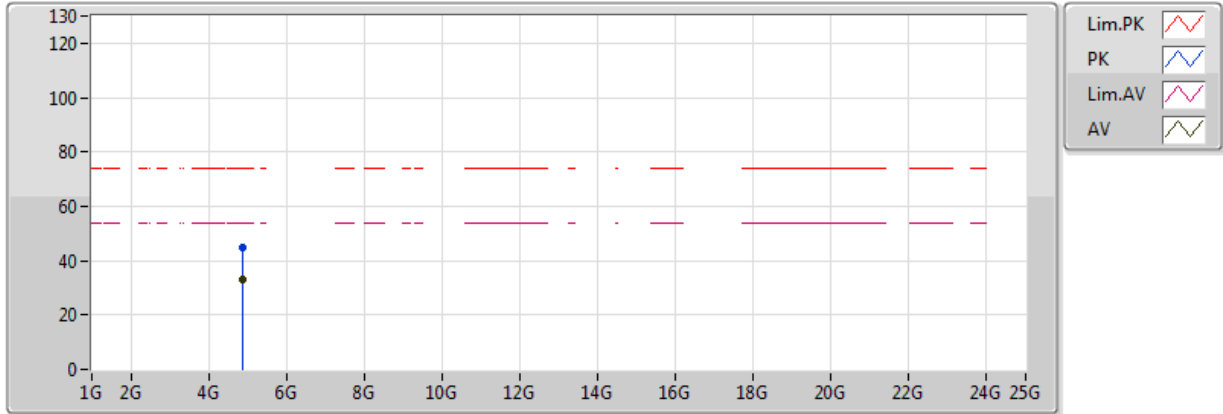


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8743G	32.89	54.00	-21.11	6.01	3	Vertical	0	1.50	-	26.88	31.30	4.55	29.84
PK	4.8754G	44.49	74.00	-29.51	6.01	3	Vertical	0	1.50	-	38.47	31.30	4.55	29.83

802.11n HT40_Nss1,(MCS0)_2TX

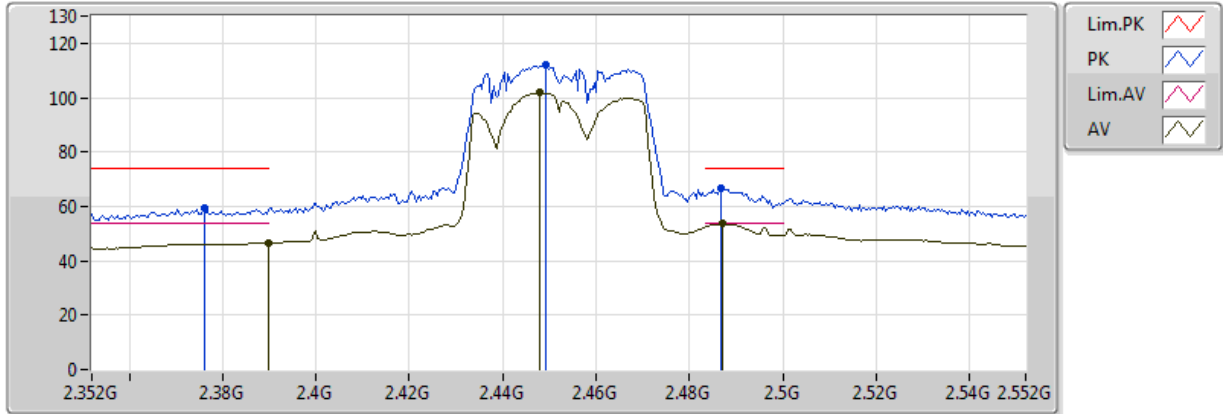
2437MHz_TX



EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8707G	32.96	54.00	-21.04	6.00	3	Horizontal	360	1.50	-	26.96	31.29	4.55	29.84
PK	4.8748G	44.67	74.00	-29.33	6.01	3	Horizontal	360	1.50	-	38.66	31.30	4.55	29.84

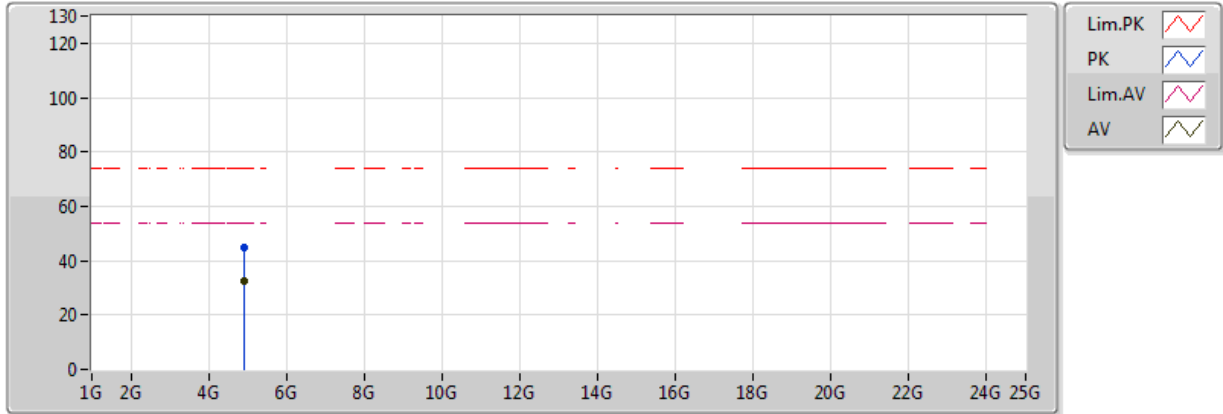
**802.11n HT40_Nss1,(MCS0)_2TX
2452MHz_TX**



EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	46.67	54.00	-7.33	30.93	3	Vertical	20	1.50	-	15.74	27.31	3.62	-
AV	2.448G	101.84	Inf	-Inf	31.14	3	Vertical	20	1.50	-	70.69	27.46	3.68	-
AV	2.4872G	53.64	54.00	-0.36	31.28	3	Vertical	20	1.50	-	22.36	27.57	3.72	-
PK	2.376G	59.52	74.00	-14.48	30.89	3	Vertical	20	1.50	-	28.63	27.28	3.61	-
PK	2.4492G	111.99	Inf	-Inf	31.15	3	Vertical	20	1.50	-	80.85	27.47	3.68	-
PK	2.4868G	66.50	74.00	-7.50	31.28	3	Vertical	20	1.50	-	35.22	27.57	3.72	-

**802.11n HT40_Nss1,(MCS0)_2TX
2452MHz_TX**

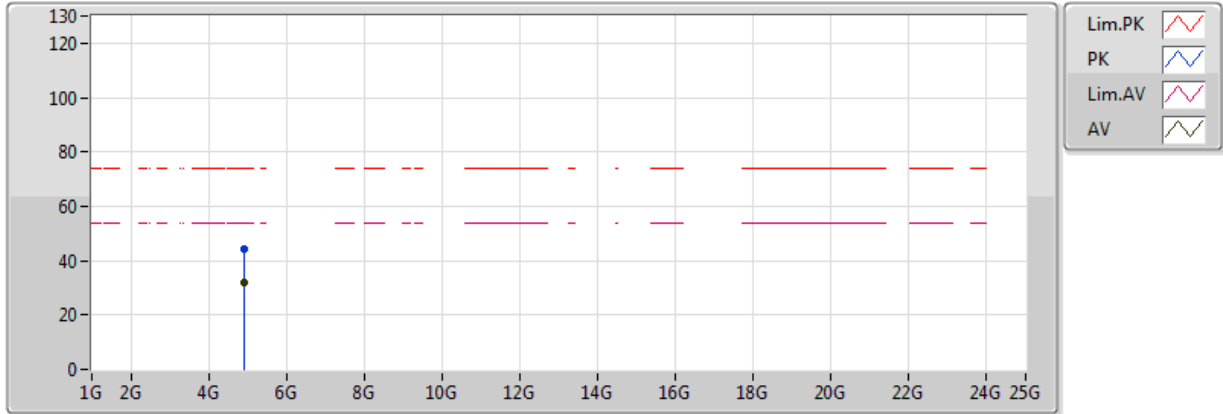


EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.90822G	32.43	54.00	-21.57	6.09	3	Vertical	0	1.50	-	26.34	31.35	4.56	29.83
PK	4.90772G	45.08	74.00	-28.92	6.09	3	Vertical	0	1.50	-	38.99	31.35	4.56	29.83

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX



EUT = Y

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.90886G	32.10	54.00	-21.90	6.09	3	Horizontal	360	1.50	-	26.01	31.35	4.56	29.83
PK	4.90248G	44.23	74.00	-29.77	6.08	3	Horizontal	360	1.50	-	38.15	31.34	4.56	29.83