




FCC RADIO TEST REPORT

FCC ID : 2AGEFHCCGT9WL
Equipment : COGNITIVE & AGILITY TRAINER
Brand Name : ALDA
Model Name : HC-CGT-9WL
Applicant : Alexandave Industries Co., Ltd.
9F-1, No. 203, Gongyuan Road, Linkou District
24453, New Taipei City, Taiwan
Manufacturer : Alexandave Industries Co., Ltd.
9F-1, No. 203, Gongyuan Road, Linkou District
24453, New Taipei City, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Aug. 30, 2018, and testing was started from Sep. 05, 2018 and completed on Sep. 14, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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


Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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Photographs of EUT v01



History of this test report

Report No.	Version	Description	Issued Date
FR591601-02	01	Initial issue of report	Sep. 26, 2018



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Reviewed by: Sam Chen
Report Producer: Cindy Peng



1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

- ◆ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ◆ 11g and HT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ◆ BWch is the nominal channel bandwidth.
- ◆ Nss-Min is the minimum number of spatial streams.
- ◆ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Brand Holder	Part Number	Antenna Type	Connector	Gain (dBi)
1	Unictron Technologies Corp.	H2U34WGTQW0100	Chip Antenna	N/A	2.5

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.998	0.009	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.998	0.009	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT20	0.984	0.070	n/a (DC>=0.98)	n/a (DC>=0.98)

Note:

- ◆ DC is Duty Cycle.
- ◆ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From power adapter		
Beamforming Function	<input type="checkbox"/> With beamforming	<input checked="" type="checkbox"/>	Without beamforming
Function	<input checked="" type="checkbox"/> Point-to-multipoint	<input type="checkbox"/>	Point-to-point
Test Software Version	TeraTerm 4.75		



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
- ◆ FCC KDB 558074 D01 v05

1.3 Testing Location Information

Testing Location		
<input 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
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Serway Li	23°C / 60%	Sep. 07, 2018
Radiated	03CH01-CB	KJ Chang	22°C / 54%	Sep. 05, 2018~ Sep. 07, 2018
AC Conduction	CO02-CB	Wei Li	24°C / 60%	Sep. 14, 2018

Test site Designation No. TW0006 with FCC.
Test site registered number IC 4086D with Industry Canada.



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)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74 x10 ⁻⁸	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	PowerSetting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	34
2417MHz	34
2422MHz	33
2437MHz	32
2462MHz	30
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	33
2417MHz	33
2422MHz	32
2437MHz	30
2462MHz	29
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	34
2417MHz	33
2422MHz	33
2437MHz	31
2462MHz	29



2.2 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

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	Normal Link
1	EUT Y axis
2	EUT Z axis
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
1	EUT Y axis
2	EUT Z axis
Mode 1 has been evaluated to be the worst case after evaluating. Consequently, measurement will follow this same test mode.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.



2.4 Accessories

Accessories					
No.	Equipment Name	Brand Name	Model Name	Rating	Remark
1	Adapter	LITEON	PA-1900-05UM	INPUT: 100-240Vac, 50-60Hz, 1.5A OUTPUT: 19Vdc, 4.74A	With cable: Non-shielded, 2m
No.	Others				
2	Power cable*1: Non-shielded, 1.7m				
3	Wall-mounted rack*2				
4	Electroplating pipe*2				

2.5 Support Equipment

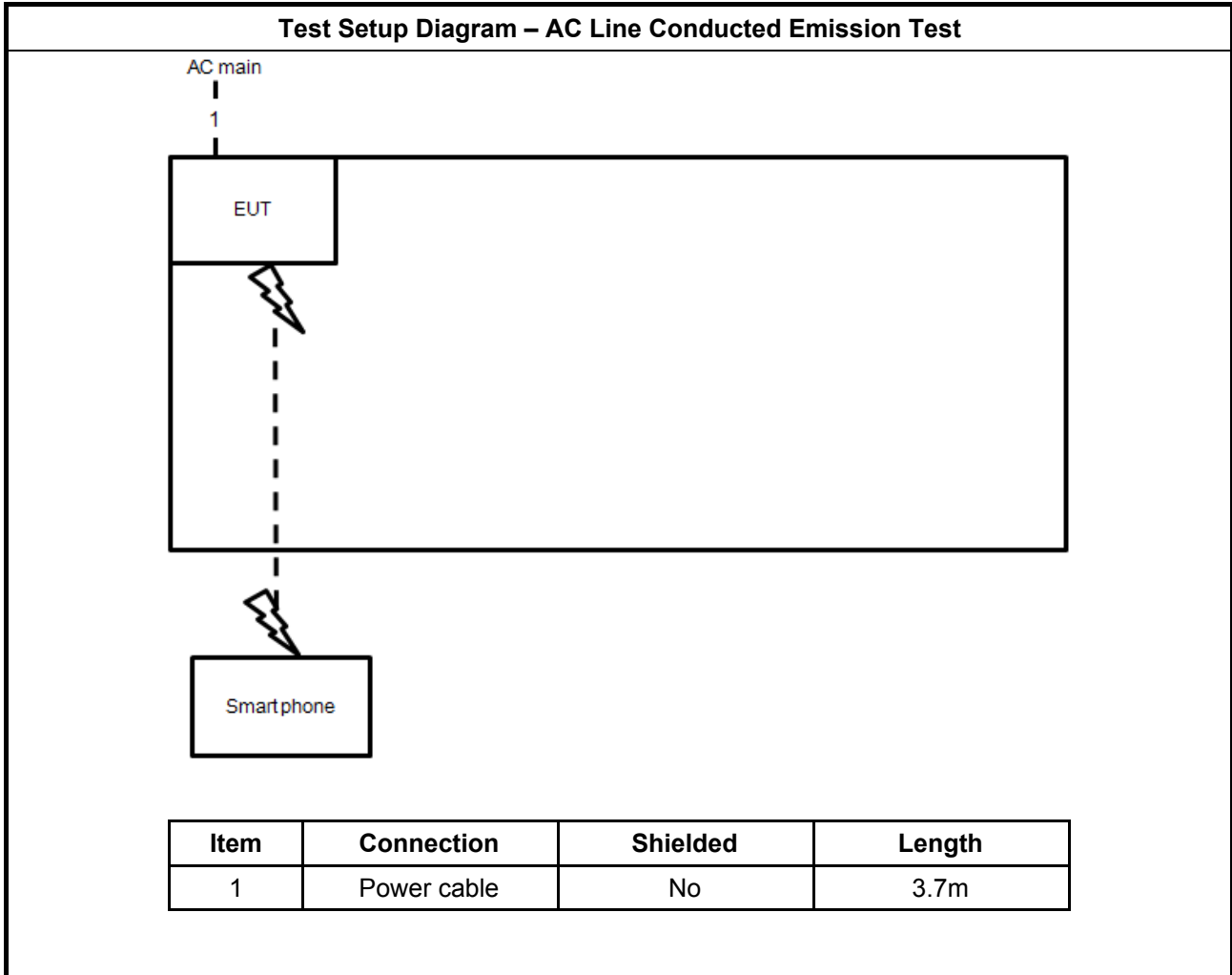
For Test Site No: CO02-CB and 03CH01-CB (below 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Smart phone	Samsung	Galaxy J2	N/A

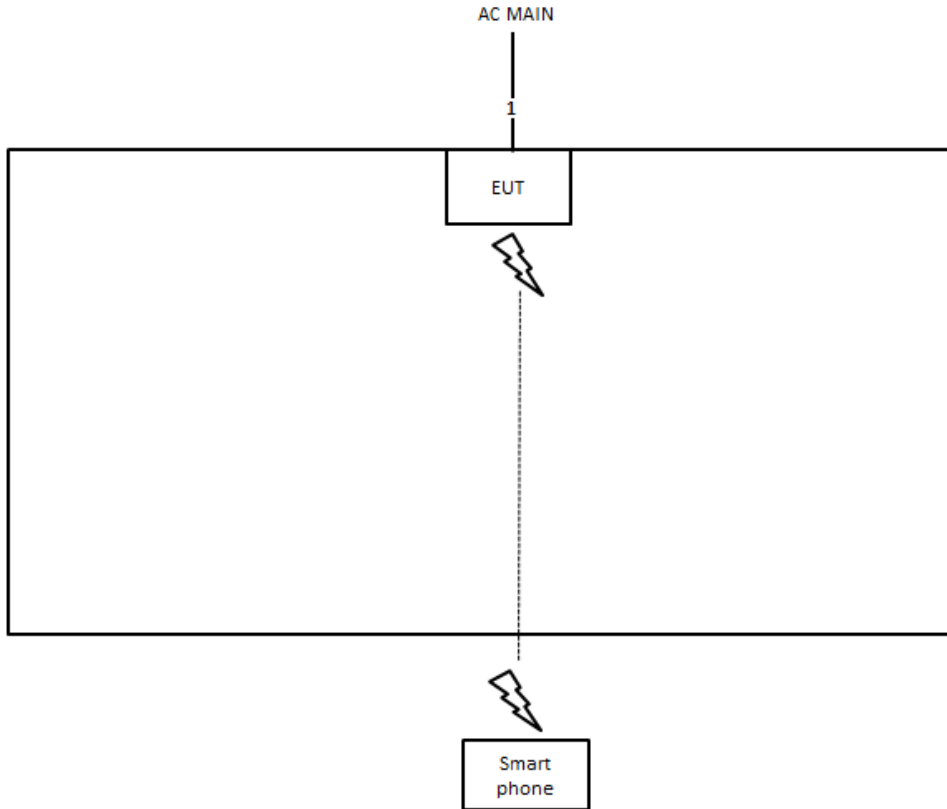
For Test Site No: 03CH01-CB (above 1GHz) and TH01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E4300	N/A
2	Test fixture	MXIC	1575- 1105	N/A

2.6 Test Setup Diagram



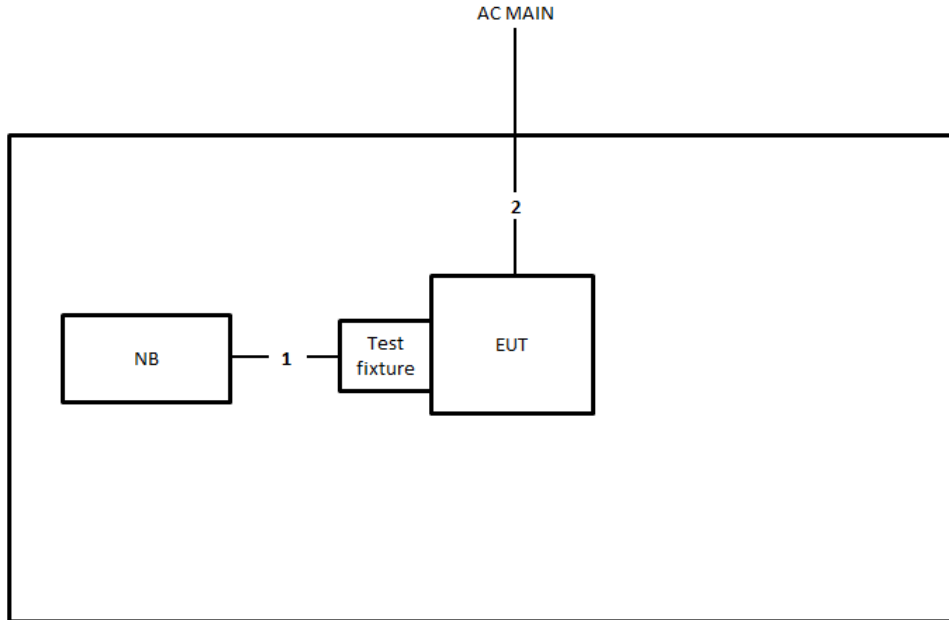
Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	3.7m



Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	Console cable	Yes	1.6m
2	Power cable	No	3.7m



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.

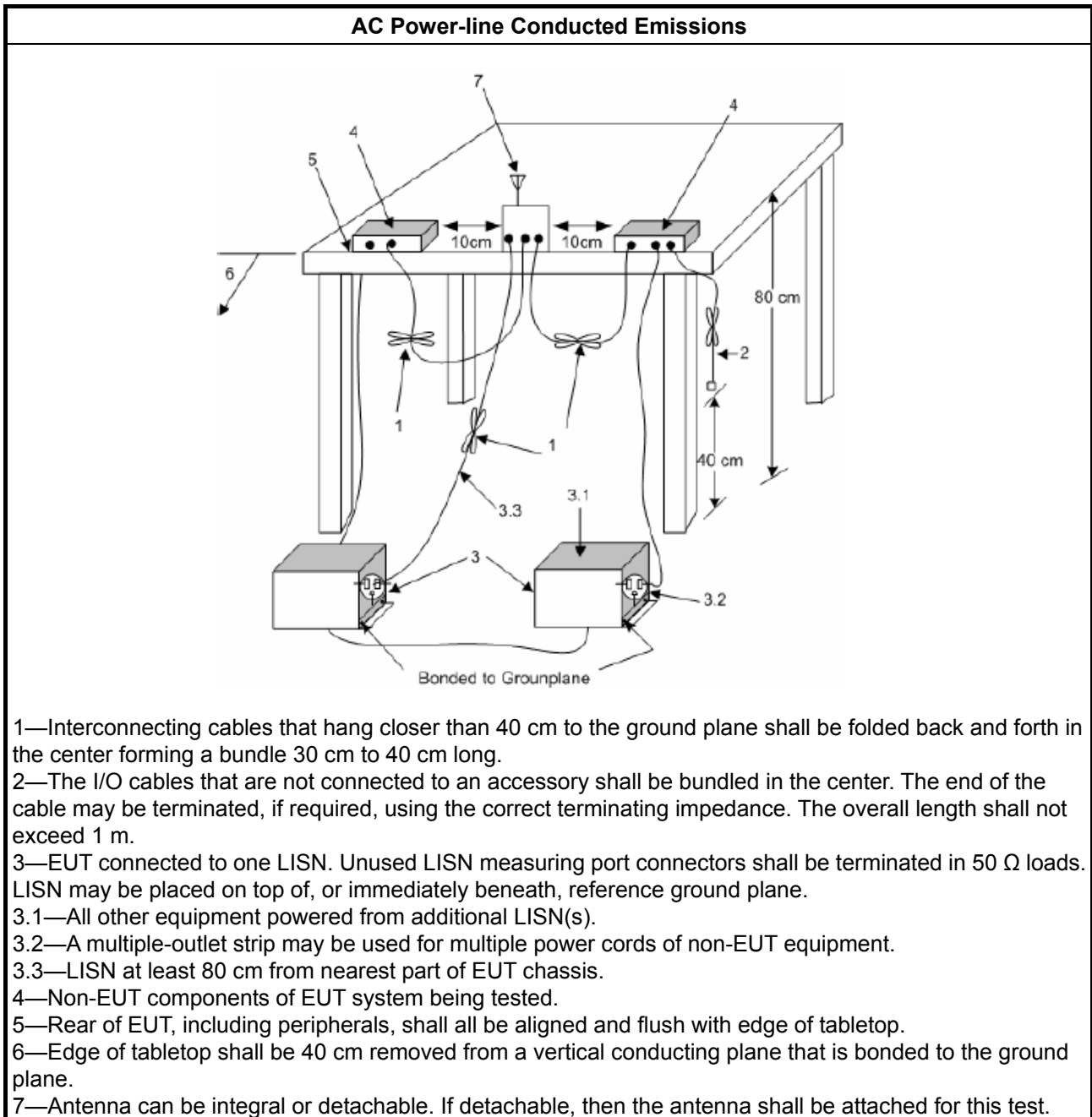
3.1.2 Measuring Instruments

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.

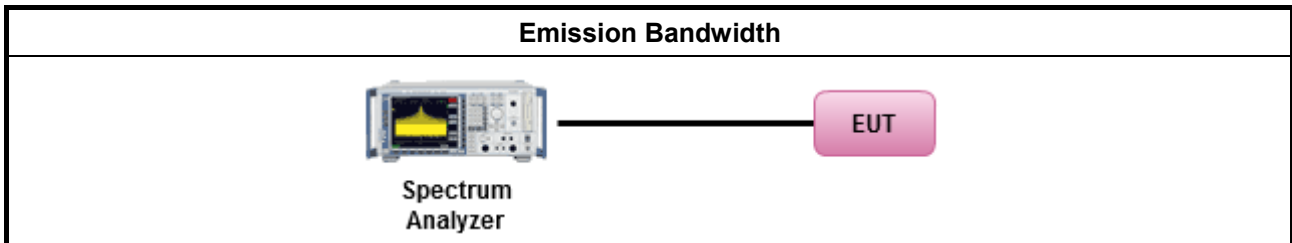
3.2.2 Measuring Instruments

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 FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 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 $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB 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

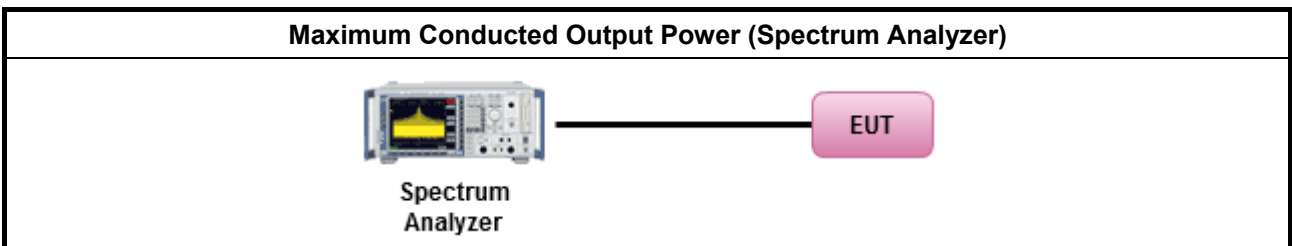
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
	<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW \geq EBW method).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter). 若
	<ul style="list-style-type: none"> ▪ Maximum Conducted Output Power
	[duty cycle \geq 98% or external video / power trigger]
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
	duty cycle < 98% and average over on/off periods with duty factor
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
	Measurement using a power meter (PM)
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).

- For conducted measurement.
 - If the EUT supports multiple transmit chains using options given below:
Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
 - If multiple transmit chains, EIRP calculation could be following as methods:
 $P_{total} = P_1 + P_2 + \dots + P_n$
 (calculated in linear unit [mW] and transfer to log unit [dBm])
 $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<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.

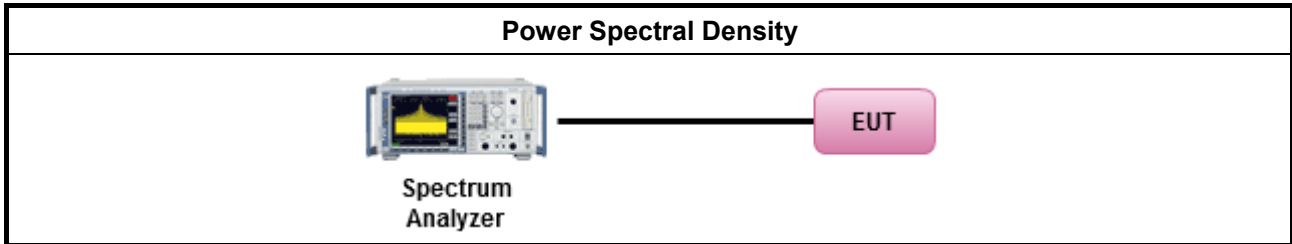
3.4.3 Test Procedures

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 FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.2 Method PKPSD. [duty cycle \geq 98% or external video / power trigger]
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.3 Method AVGPSD-1.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.5 Method AVGPSD-2.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.7 Method AVGPSD-3.
duty cycle < 98% and average over on/off periods with duty factor
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.4 Method AVGPSD-1A. (alternative).
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.6 Method AVGPSD-2A. (alternative)
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.6 Method AVGPSD-3A. (alternative)
<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 checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC 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.
<input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,



Option 3: Measure and add $10 \log(N)$ dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with $10 \log(N)$. Or each transmit chains shall be add $10 \log(N)$ to compared with the limit.

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.

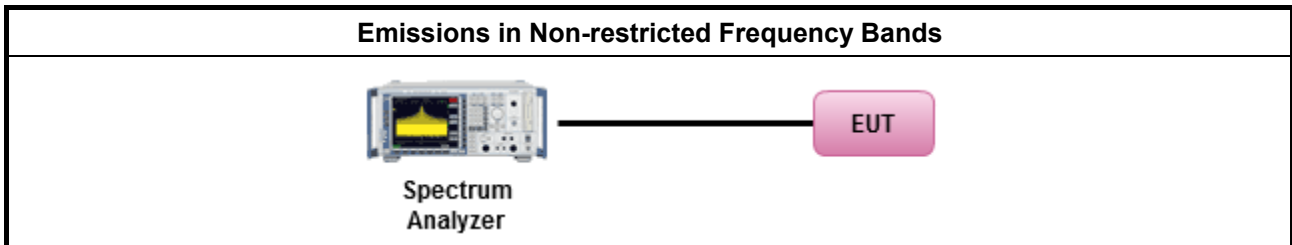
3.5.2 Measuring Instruments

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 FCC KDB 558074, clause 8.5 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

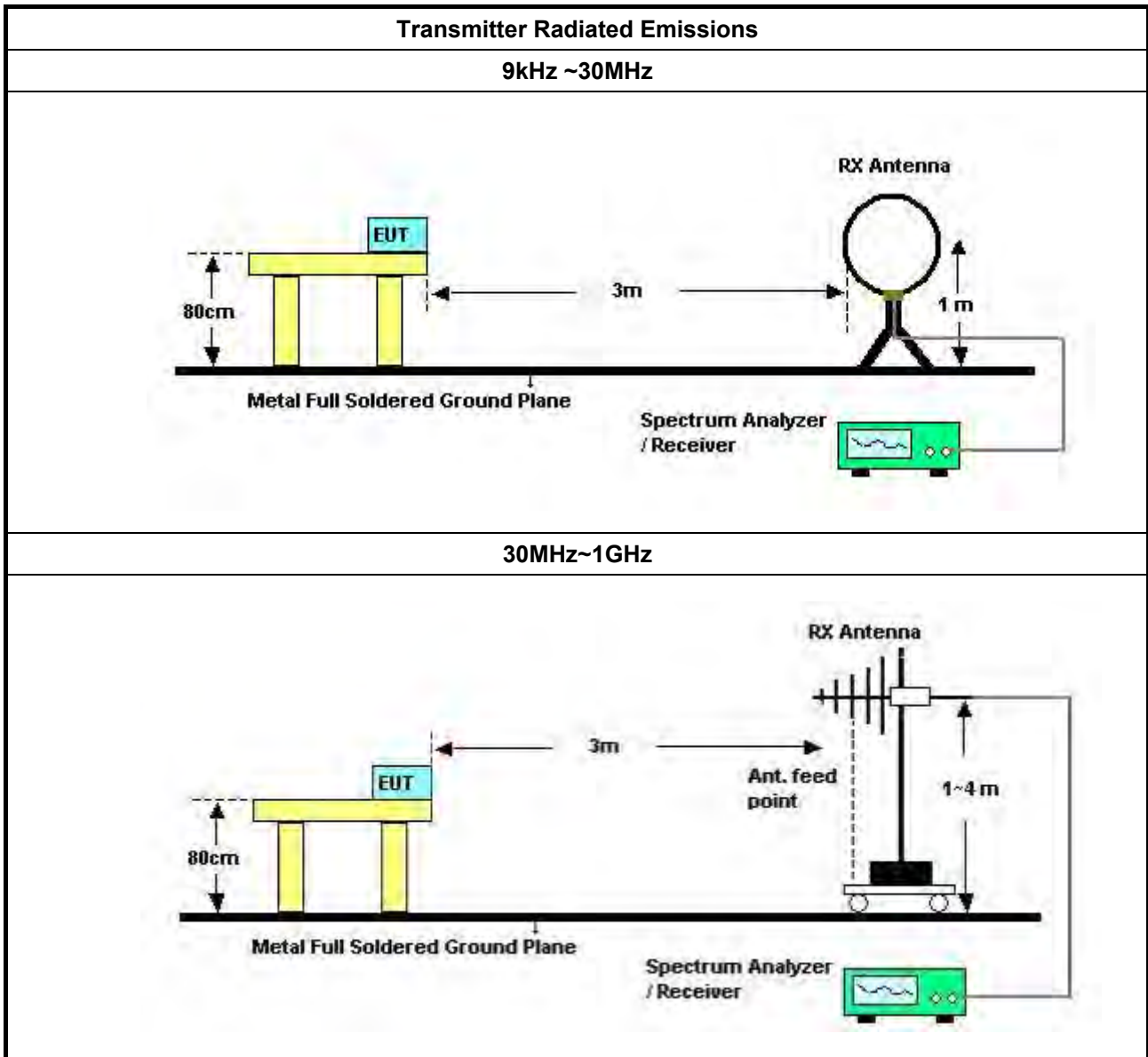
Refer a test equipment and calibration data table in this test report.

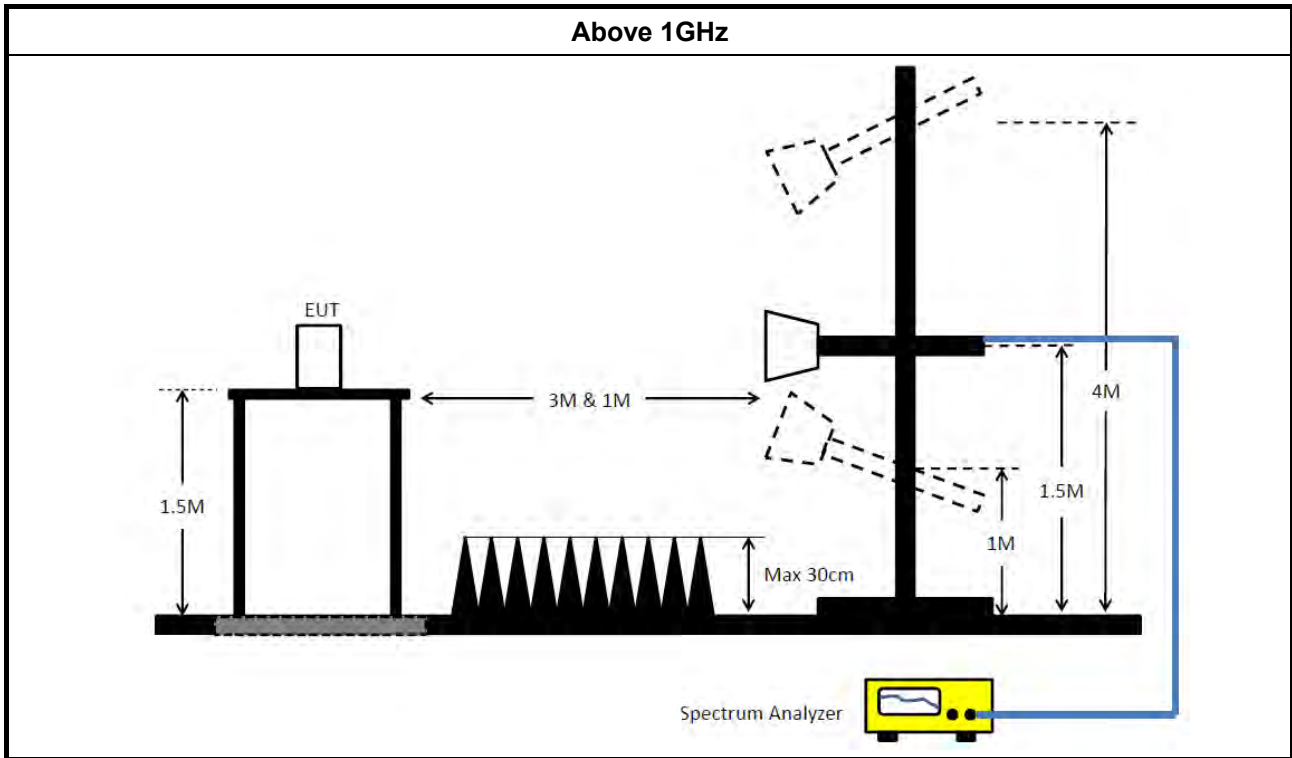


3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.9.2.2 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 FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle ≥98%).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW≥1/T).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 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 FCC KDB 558074 clause 8.7 & c63.10 clause 11.13.1, 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 FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.7 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 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 FCC 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 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

3.6.6 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 24, 2017	Nov. 23, 2018	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 13, 2017	Nov. 12, 2018	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 17, 2018	Jan. 16, 2019	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Nov. 10, 2017	Nov. 09, 2018	Conduction (CO02-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 27, 2018	Aug. 26, 2019	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 20, 2017	Nov. 19, 2018	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 28, 2018	Jun. 27, 2019	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2018	May 01, 2019	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 09, 2018	Jan. 08, 2019	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 23, 2017	Nov. 22, 2018	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100354	9kHz ~ 2.75GHz	Dec. 08, 2017	Dec. 07, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 21, 2017	Dec. 20, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.
N.C.R. means Non-Calibration required.



AC Power-line Conducted Emissions Result

Appendix A

AC Power-line Conducted Emissions Result																																																																																																																																															
Operating Mode	1	Power Phase	Neutral																																																																																																																																												
Operating Function	Normal Link																																																																																																																																														
<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;"> <p style="font-size: small;">Date: 2018-09-14 Time: 15:04:03</p> </div> <div style="text-align: right;"> <p style="color: red; font-size: small;">CISPR_B_QP</p> <p style="color: red; font-size: small;">CISPR_B_AV</p> </div> </div>																																																																																																																																															
<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-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> <th>Pol/Phase</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV</th> <th>dB</th> <th>dBuV</th> <th>dBuV</th> <th>dB</th> <th>dB</th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1</td><td>0.1540</td><td>32.24</td><td>-23.54</td><td>55.78</td><td>22.06</td><td>10.17</td><td>0.01</td><td>Average</td><td>NEUTRAL</td></tr> <tr><td>2</td><td>0.1540</td><td>41.48</td><td>-24.30</td><td>65.78</td><td>31.30</td><td>10.17</td><td>0.01</td><td>QP</td><td>NEUTRAL</td></tr> <tr><td>3</td><td>0.2162</td><td>23.90</td><td>-29.06</td><td>52.96</td><td>13.72</td><td>10.17</td><td>0.01</td><td>Average</td><td>NEUTRAL</td></tr> <tr><td>4</td><td>0.2162</td><td>33.66</td><td>-29.30</td><td>62.96</td><td>23.48</td><td>10.17</td><td>0.01</td><td>QP</td><td>NEUTRAL</td></tr> <tr><td>5</td><td>0.3374</td><td>18.07</td><td>-31.20</td><td>49.27</td><td>7.88</td><td>10.17</td><td>0.02</td><td>Average</td><td>NEUTRAL</td></tr> <tr><td>6</td><td>0.3374</td><td>31.14</td><td>-28.13</td><td>59.27</td><td>20.95</td><td>10.17</td><td>0.02</td><td>QP</td><td>NEUTRAL</td></tr> <tr><td>7</td><td>3.7198</td><td>17.84</td><td>-28.16</td><td>46.00</td><td>7.55</td><td>10.22</td><td>0.07</td><td>Average</td><td>NEUTRAL</td></tr> <tr><td>8</td><td>3.7198</td><td>26.27</td><td>-29.73</td><td>56.00</td><td>15.98</td><td>10.22</td><td>0.07</td><td>QP</td><td>NEUTRAL</td></tr> <tr style="border: 2px solid black;"><td>9</td><td>11.9328</td><td>30.84</td><td>-19.16</td><td>50.00</td><td>20.42</td><td>10.34</td><td>0.08</td><td>Average</td><td>NEUTRAL</td></tr> <tr><td>10</td><td>11.9328</td><td>36.32</td><td>-23.68</td><td>60.00</td><td>25.90</td><td>10.34</td><td>0.08</td><td>QP</td><td>NEUTRAL</td></tr> <tr><td>11</td><td>22.0629</td><td>21.28</td><td>-28.72</td><td>50.00</td><td>10.70</td><td>10.43</td><td>0.15</td><td>Average</td><td>NEUTRAL</td></tr> <tr><td>12</td><td>22.0629</td><td>24.83</td><td>-35.17</td><td>60.00</td><td>14.25</td><td>10.43</td><td>0.15</td><td>QP</td><td>NEUTRAL</td></tr> </tbody> </table>					Freq	Level	Over	Limit	Read	LISN	Cable	Remark	Pol/Phase		MHz	dBuV	dB	dBuV	dBuV	dB	dB			1	0.1540	32.24	-23.54	55.78	22.06	10.17	0.01	Average	NEUTRAL	2	0.1540	41.48	-24.30	65.78	31.30	10.17	0.01	QP	NEUTRAL	3	0.2162	23.90	-29.06	52.96	13.72	10.17	0.01	Average	NEUTRAL	4	0.2162	33.66	-29.30	62.96	23.48	10.17	0.01	QP	NEUTRAL	5	0.3374	18.07	-31.20	49.27	7.88	10.17	0.02	Average	NEUTRAL	6	0.3374	31.14	-28.13	59.27	20.95	10.17	0.02	QP	NEUTRAL	7	3.7198	17.84	-28.16	46.00	7.55	10.22	0.07	Average	NEUTRAL	8	3.7198	26.27	-29.73	56.00	15.98	10.22	0.07	QP	NEUTRAL	9	11.9328	30.84	-19.16	50.00	20.42	10.34	0.08	Average	NEUTRAL	10	11.9328	36.32	-23.68	60.00	25.90	10.34	0.08	QP	NEUTRAL	11	22.0629	21.28	-28.72	50.00	10.70	10.43	0.15	Average	NEUTRAL	12	22.0629	24.83	-35.17	60.00	14.25	10.43	0.15	QP	NEUTRAL
	Freq	Level	Over	Limit	Read	LISN	Cable	Remark	Pol/Phase																																																																																																																																						
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<p>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.)</p>																																																																																																																																															



AC Power-line Conducted Emissions Result

Appendix A

AC Power-line Conducted Emissions Result									
Operating Mode	1		Power Phase	Line					
Operating Function	Normal Link								
<p>The graph displays the AC power-line conducted emissions. The y-axis represents Level in dBuV, ranging from 0 to 80. The x-axis represents Frequency in MHz, ranging from 0.1502 to 30. Two red lines indicate the CISPR limits: CISPR_B_QP (Quasi-Peak) and CISPR_B_AV (Average). The test data is shown as a blue line with several peaks marked by vertical lines and numbered 1 through 12. The date and time of the test are 2018-09-14 at 15:02:00.</p>									
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1582	32.77	-22.79	55.56	22.60	10.16	0.01	Average	LINE
2	0.1582	41.74	-23.82	65.56	31.57	10.16	0.01	QP	LINE
3	0.2162	30.10	-22.86	52.96	19.93	10.16	0.01	Average	LINE
4	0.2162	39.73	-23.23	62.96	29.56	10.16	0.01	QP	LINE
5	1.0157	12.61	-33.39	46.00	2.42	10.17	0.02	Average	LINE
6	1.0157	20.42	-35.58	56.00	10.23	10.17	0.02	QP	LINE
7	3.7001	14.54	-31.46	46.00	4.25	10.22	0.07	Average	LINE
8	3.7001	19.62	-36.38	56.00	9.33	10.22	0.07	QP	LINE
9	12.0599	29.70	-20.30	50.00	19.28	10.34	0.08	Average	LINE
10	12.0599	35.38	-24.62	60.00	24.96	10.34	0.08	QP	LINE
11	21.7149	20.07	-29.93	50.00	9.49	10.43	0.15	Average	LINE
12	21.7149	25.28	-34.72	60.00	14.70	10.43	0.15	QP	LINE

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



Summary

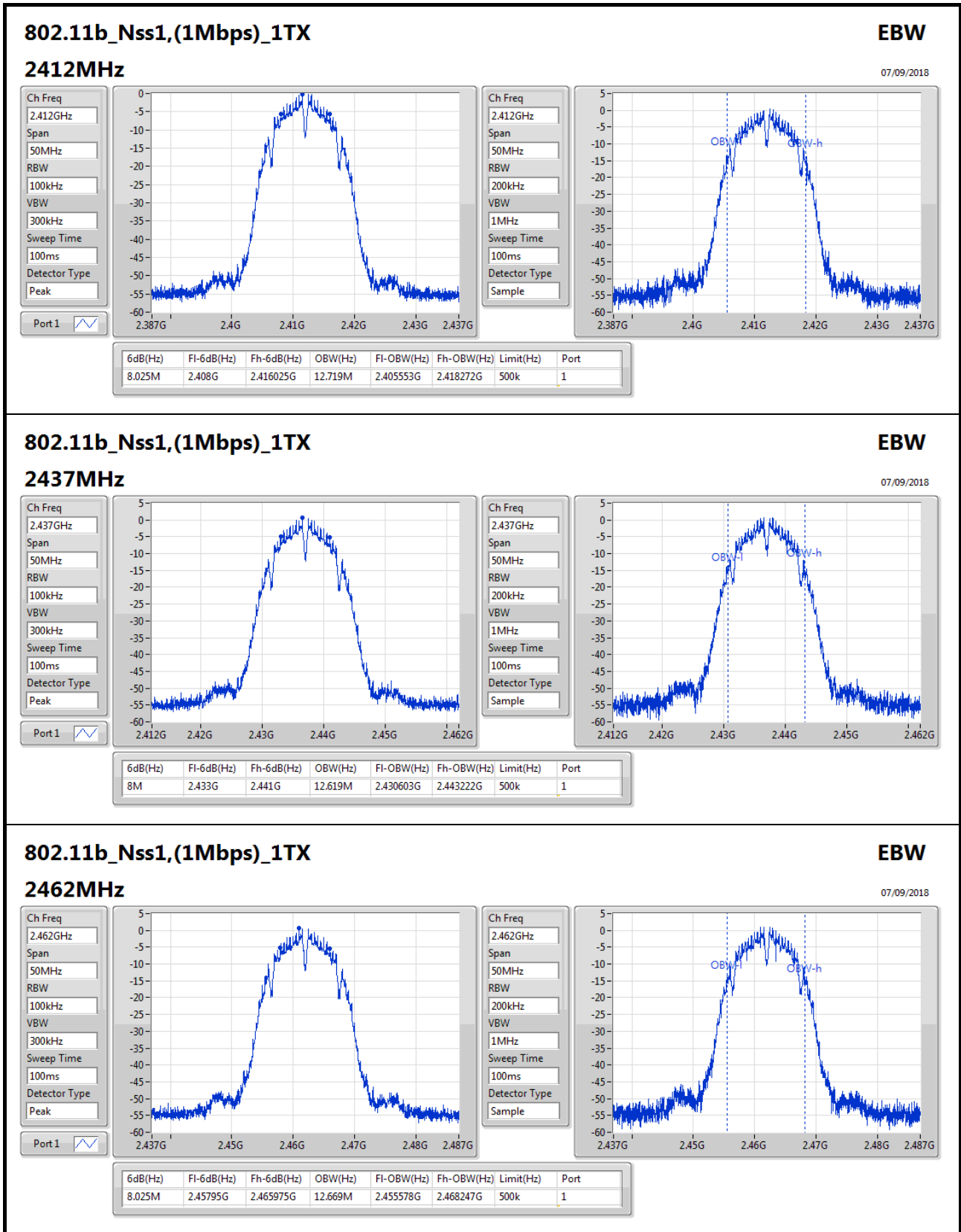
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	8.025M	12.719M	12M7G1D	8M	12.619M
802.11g_Nss1,(6Mbps)_1TX	15.425M	16.367M	16M4D1D	15M	16.317M
802.11n HT20_Nss1,(MCS0)_1TX	15.375M	17.491M	17M5D1D	15.025M	17.441M

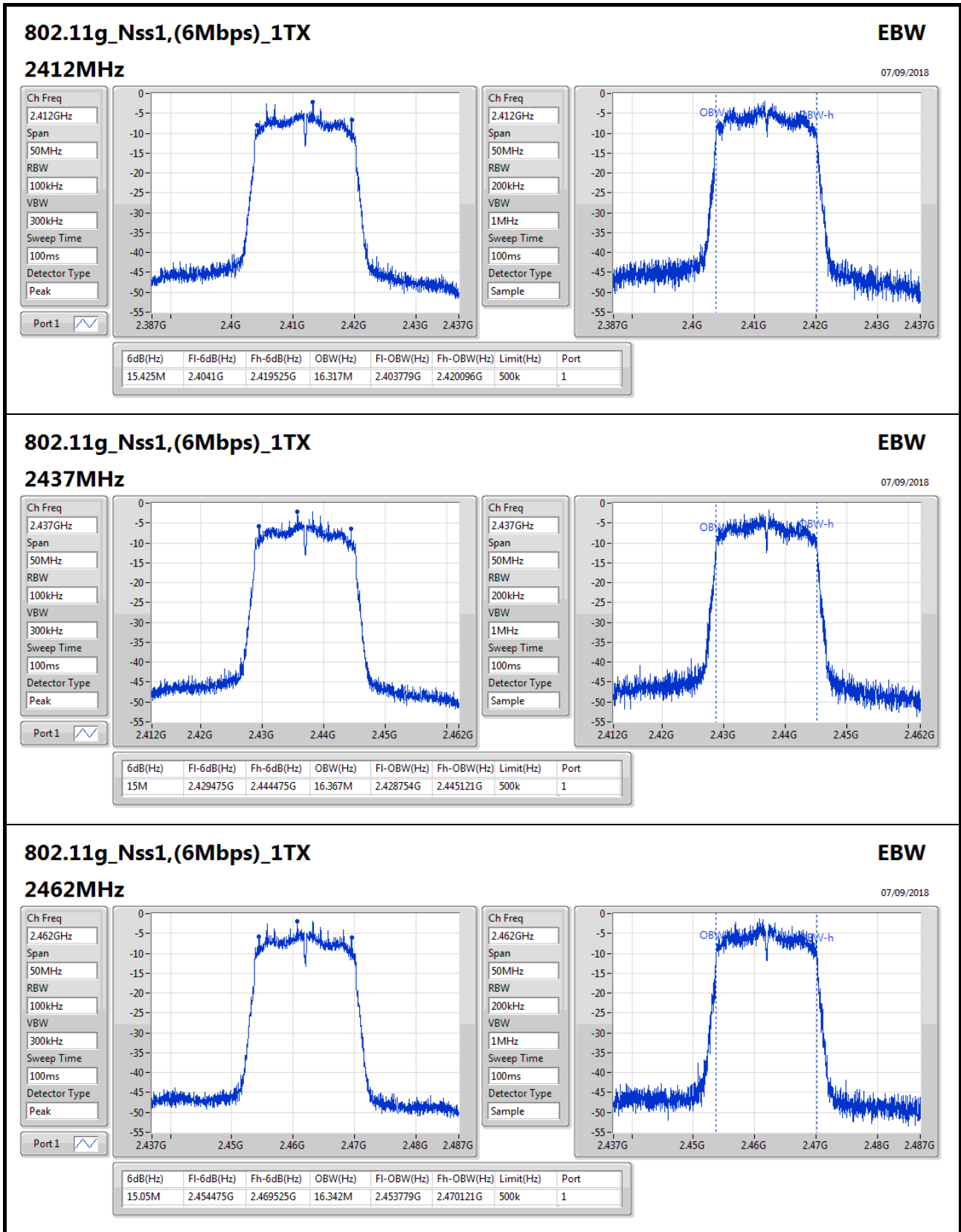
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

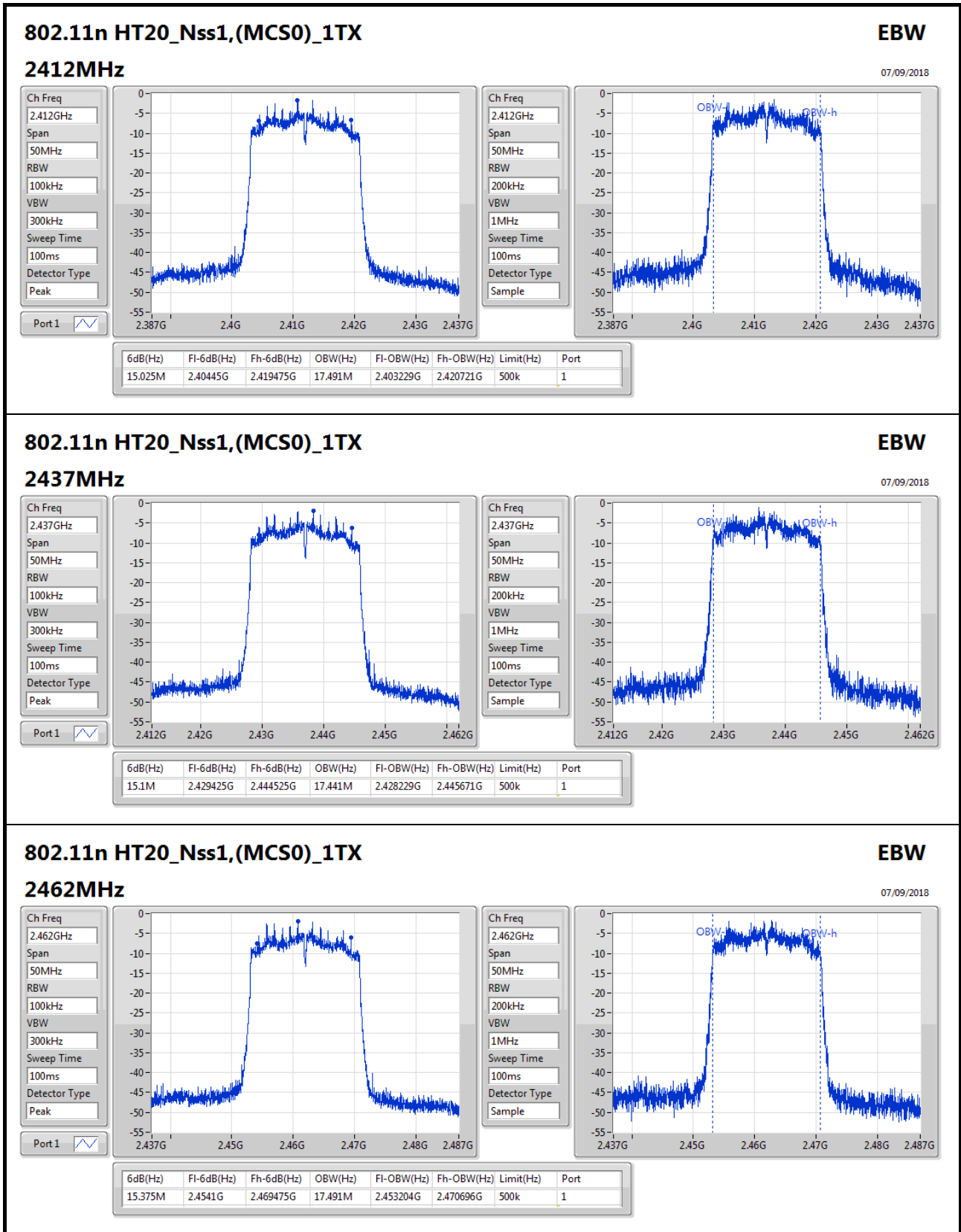
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	8.025M	12.719M
2437MHz	Pass	500k	8M	12.619M
2462MHz	Pass	500k	8.025M	12.669M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	15.425M	16.317M
2437MHz	Pass	500k	15M	16.367M
2462MHz	Pass	500k	15.05M	16.342M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	15.025M	17.491M
2437MHz	Pass	500k	15.1M	17.441M
2462MHz	Pass	500k	15.375M	17.491M

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)_1TX	9.58	0.00908
802.11g_Nss1,(6Mbps)_1TX	9.57	0.00906
802.11n HT20_Nss1,(MCS0)_1TX	9.58	0.00908

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	9.46	9.46	30.00
2417MHz	Pass	2.50	9.51	9.51	30.00
2422MHz	Pass	2.50	9.43	9.43	30.00
2437MHz	Pass	2.50	9.58	9.58	30.00
2462MHz	Pass	2.50	9.52	9.52	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	9.49	9.49	30.00
2417MHz	Pass	2.50	9.45	9.45	30.00
2422MHz	Pass	2.50	9.47	9.47	30.00
2437MHz	Pass	2.50	9.57	9.57	30.00
2462MHz	Pass	2.50	9.53	9.53	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	9.55	9.55	30.00
2417MHz	Pass	2.50	9.48	9.48	30.00
2422MHz	Pass	2.50	9.51	9.51	30.00
2437MHz	Pass	2.50	9.58	9.58	30.00
2462MHz	Pass	2.50	9.48	9.48	30.00

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

Note : Conducted average output power is for reference only



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-12.86
802.11g_Nss1,(6Mbps)_1TX	-15.43
802.11n HT20_Nss1,(MCS0)_1TX	-14.73

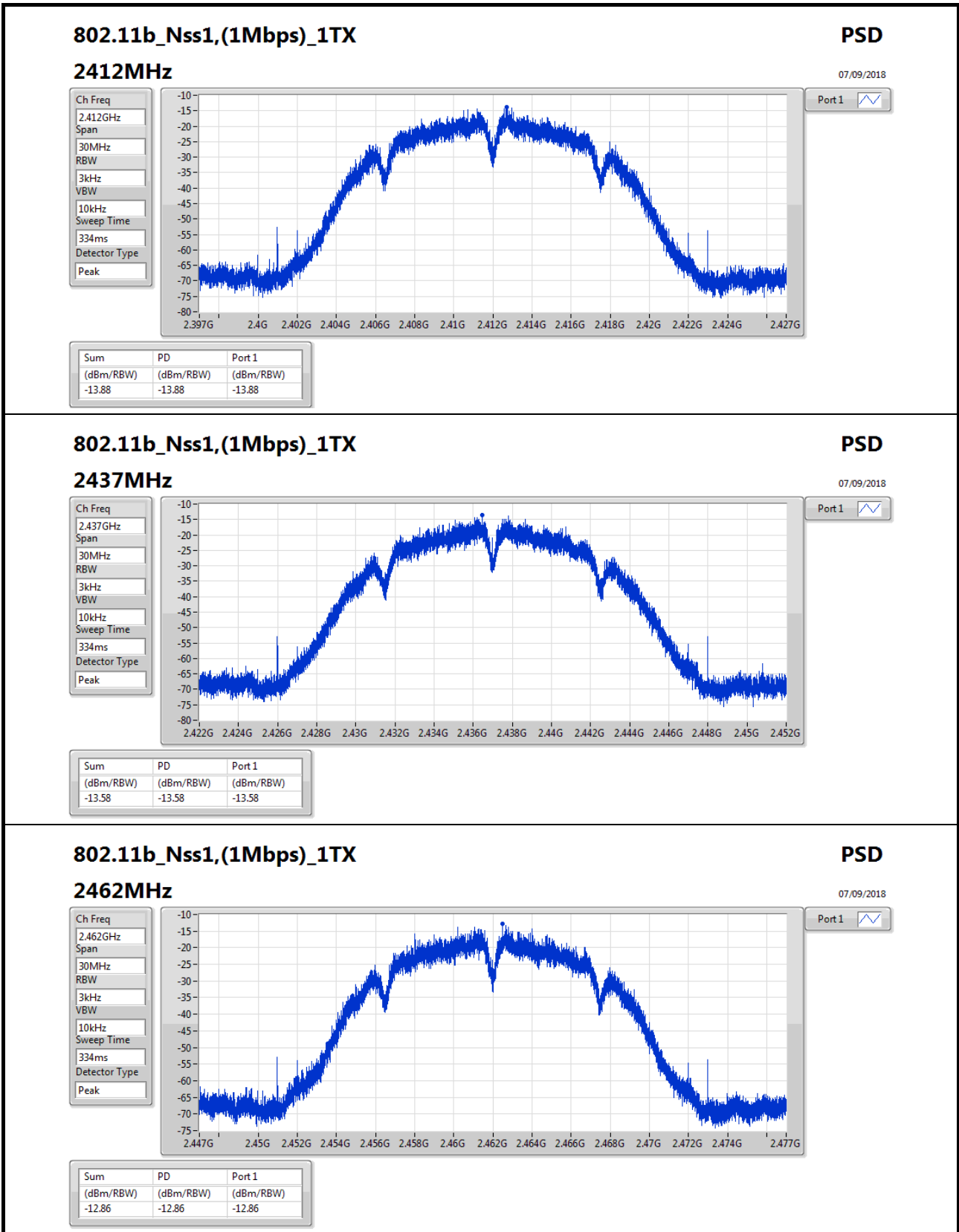
RBW=3kHz.

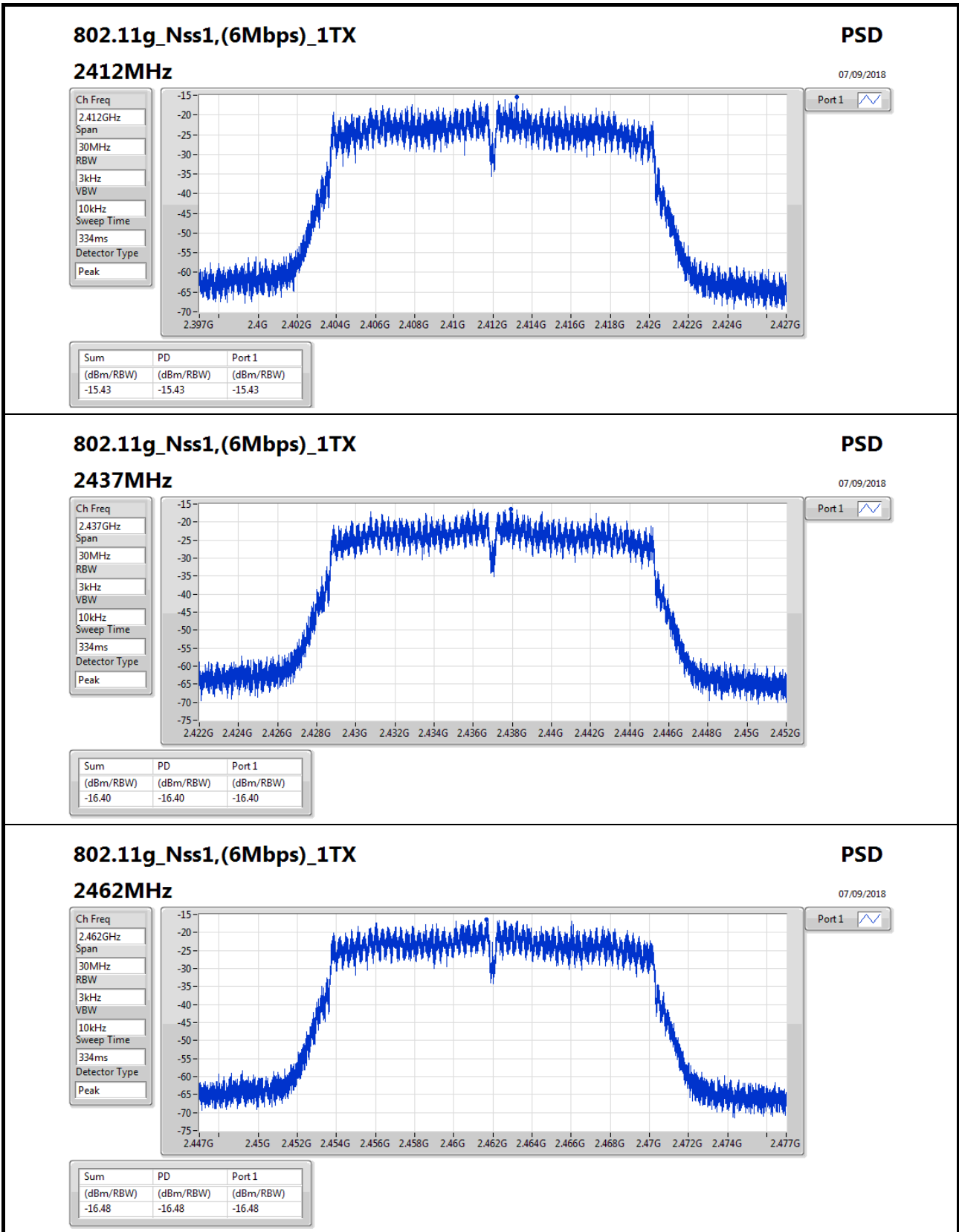
Result

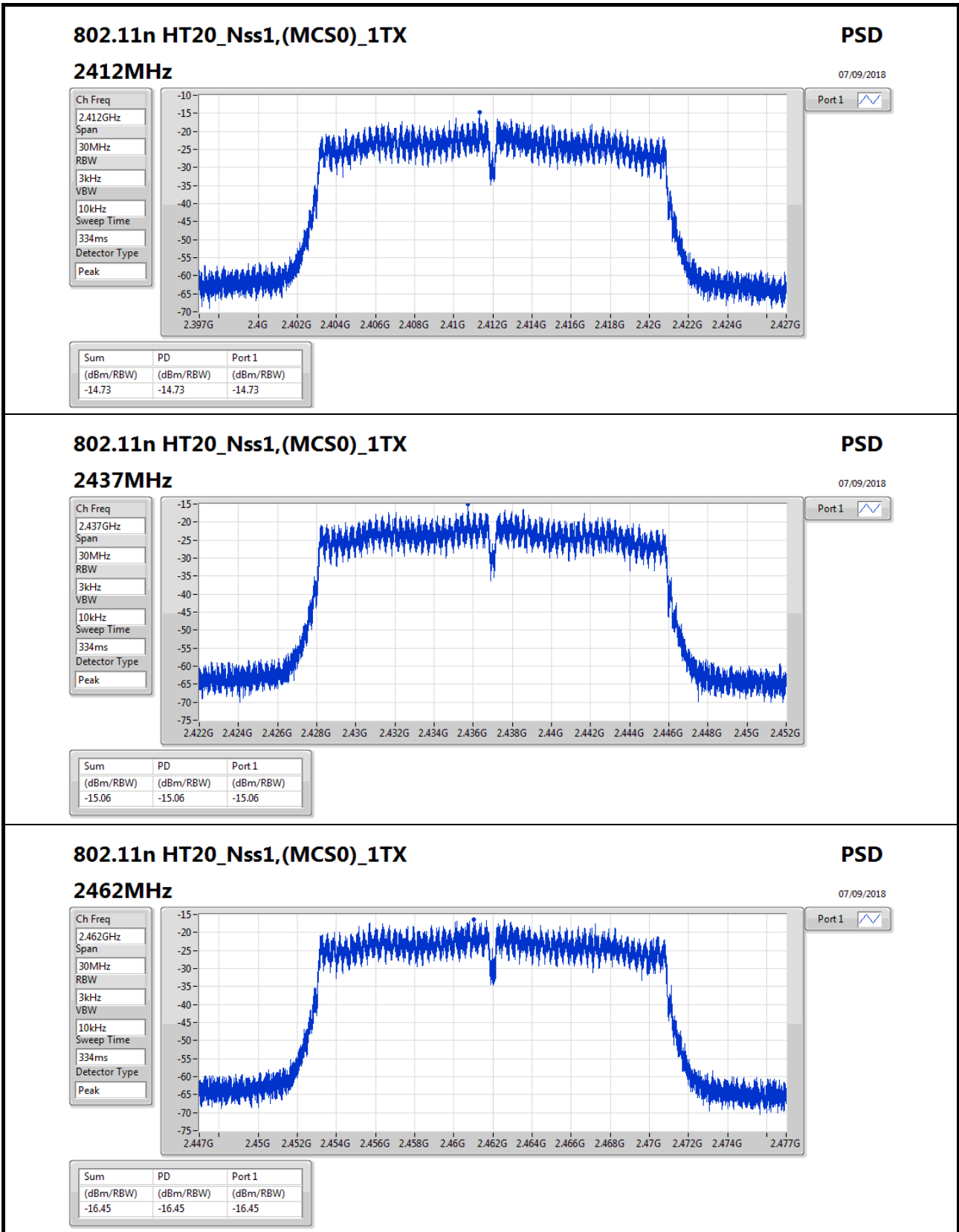
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	-13.88	-13.88	8.00
2437MHz	Pass	2.50	-13.58	-13.58	8.00
2462MHz	Pass	2.50	-12.86	-12.86	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	-15.43	-15.43	8.00
2437MHz	Pass	2.50	-16.40	-16.40	8.00
2462MHz	Pass	2.50	-16.48	-16.48	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	-14.73	-14.73	8.00
2437MHz	Pass	2.50	-15.06	-15.06	8.00
2462MHz	Pass	2.50	-16.45	-16.45	8.00

DG = Directional Gain; RBW=3kHz;

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







802.11n HT20_Nss1,(MCS0)_1TX

2462MHz

PSD

07/09/2018

Ch Freq
2.462GHz

Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
334ms

Detector Type
Peak

Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-16.45	-16.45	-16.45

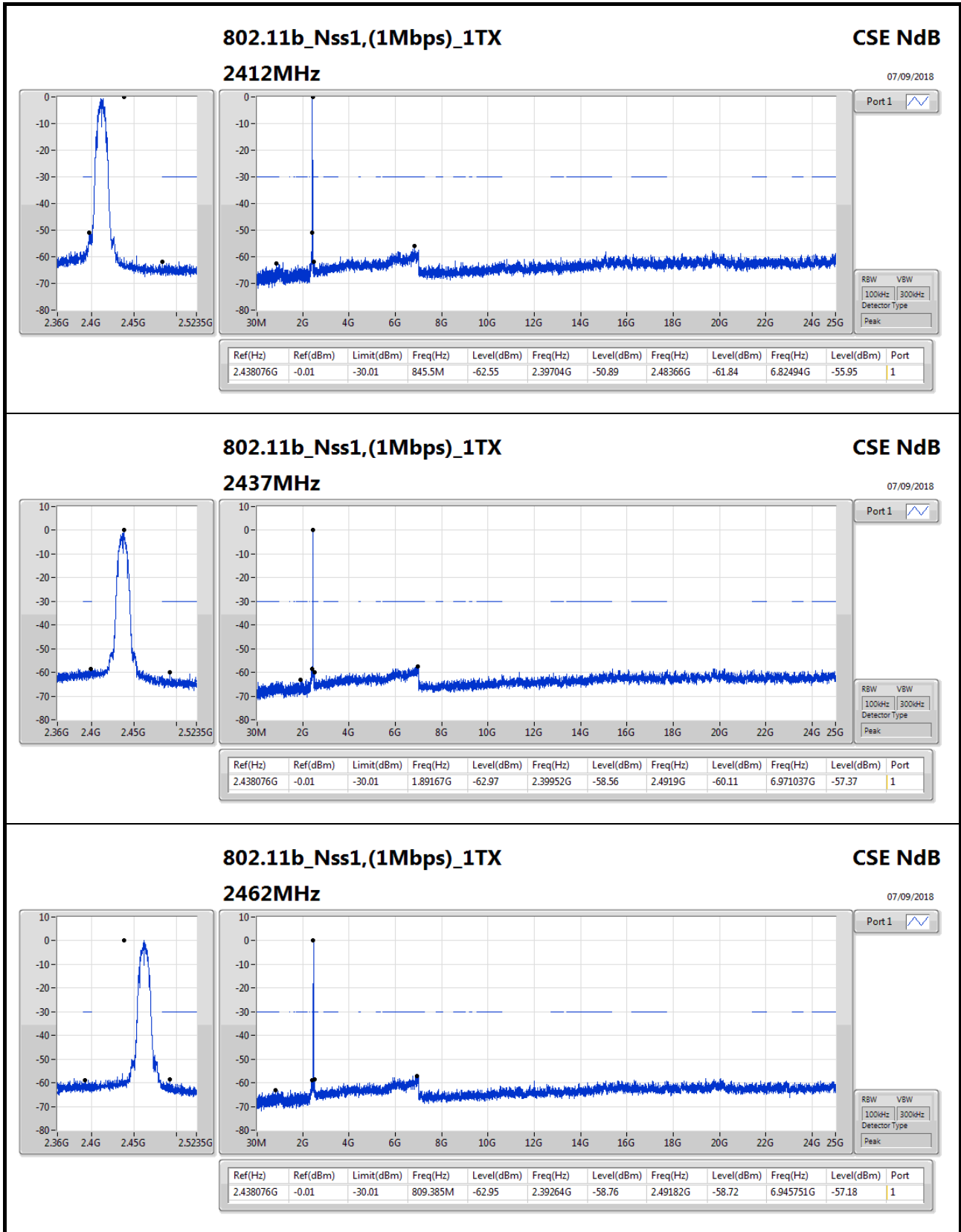


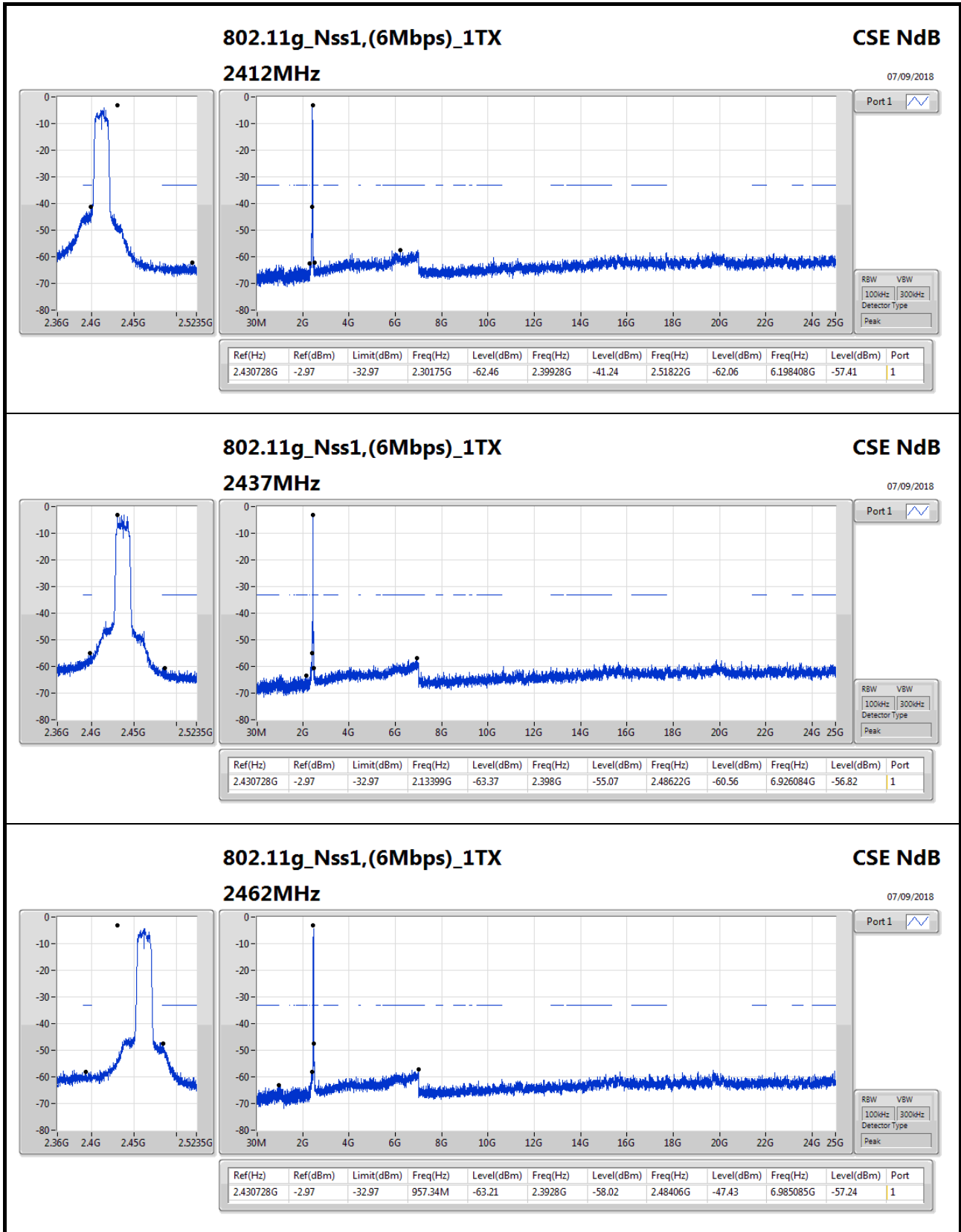
Summary

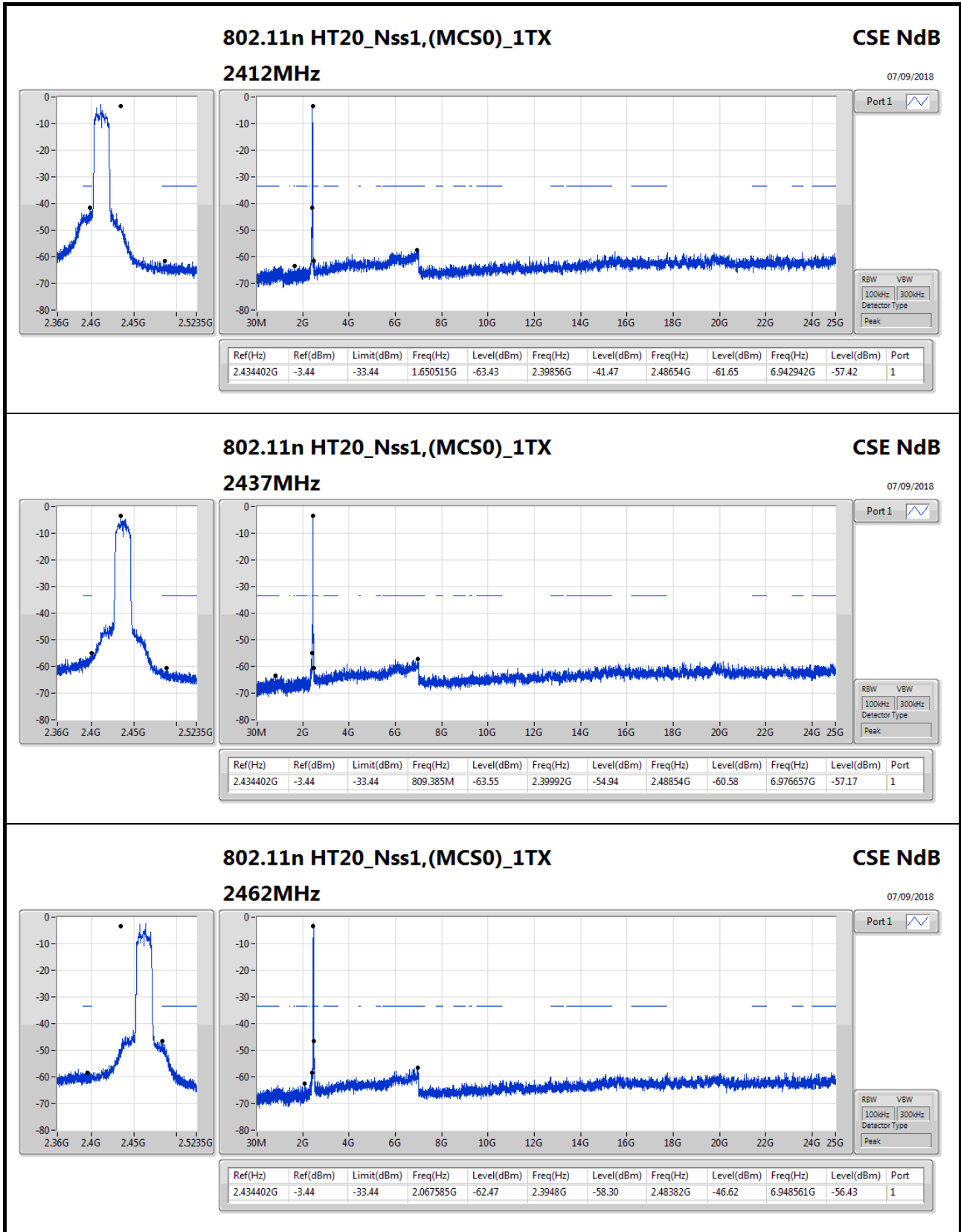
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.438076G	-0.01	-30.01	845.5M	-62.55	2.39704G	-50.89	2.48366G	-61.84	6.82494G	-55.95	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.430728G	-2.97	-32.97	2.30175G	-62.46	2.39928G	-41.24	2.51822G	-62.06	6.198408G	-57.41	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.434402G	-3.44	-33.44	1.650515G	-63.43	2.39856G	-41.47	2.48654G	-61.65	6.942942G	-57.42	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.438076G	-0.01	-30.01	845.5M	-62.55	2.39704G	-50.89	2.48366G	-61.84	6.82494G	-55.95	1
2437MHz	Pass	2.438076G	-0.01	-30.01	1.89167G	-62.97	2.39952G	-58.56	2.4919G	-60.11	6.971037G	-57.37	1
2462MHz	Pass	2.438076G	-0.01	-30.01	809.385M	-62.95	2.39264G	-58.76	2.49182G	-58.72	6.945751G	-57.18	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.430728G	-2.97	-32.97	2.30175G	-62.46	2.39928G	-41.24	2.51822G	-62.06	6.198408G	-57.41	1
2437MHz	Pass	2.430728G	-2.97	-32.97	2.13399G	-63.37	2.398G	-55.07	2.48622G	-60.56	6.926084G	-56.82	1
2462MHz	Pass	2.430728G	-2.97	-32.97	957.34M	-63.21	2.3928G	-58.02	2.48406G	-47.43	6.985085G	-57.24	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.434402G	-3.44	-33.44	1.650515G	-63.43	2.39856G	-41.47	2.48654G	-61.65	6.942942G	-57.42	1
2437MHz	Pass	2.434402G	-3.44	-33.44	809.385M	-63.55	2.39992G	-54.94	2.48854G	-60.58	6.976657G	-57.17	1
2462MHz	Pass	2.434402G	-3.44	-33.44	2.067585G	-62.47	2.3948G	-58.30	2.48382G	-46.62	6.948561G	-56.43	1









RSE below 1GHz Result

Appendix F.1

RSE below 1GHz Result																																																																																																			
Operating Mode	1	Polarization	Horizontal																																																																																																
Operating Function	Normal Link																																																																																																		
<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;"> <p>The graph displays the RSE below 1GHz result. The y-axis represents Level (dBuV/m) from 0 to 100, and the x-axis represents Frequency (MHz) from 30 to 1000. A red stepped line indicates the FCC CLASS-B limit, which is 5dB above the 30 dBuV/m level. The blue line shows the measured emission levels. Six peaks are identified and numbered 1 through 6.</p> </div> <div style="text-align: right;"> <p>Date: 2018-09-06 Time: 00:23:49</p> </div> </div>																																																																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Over</th> <th>Read</th> <th>CableAntenna</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phase</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th>dB/m</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>40.67</td> <td>28.07</td> <td>40.00</td> <td>-11.93</td> <td>36.36</td> <td>1.19</td> <td>19.06</td> <td>28.54</td> <td>100</td> <td>92 Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>2</td> <td>52.31</td> <td>26.64</td> <td>40.00</td> <td>-13.36</td> <td>40.30</td> <td>1.37</td> <td>13.51</td> <td>28.54</td> <td>150</td> <td>173 Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>3</td> <td>480.08</td> <td>36.81</td> <td>46.00</td> <td>-9.19</td> <td>40.12</td> <td>2.87</td> <td>22.97</td> <td>29.15</td> <td>100</td> <td>4 Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>4</td> <td>576.11</td> <td>45.51</td> <td>46.00</td> <td>-0.49</td> <td>48.41</td> <td>2.25</td> <td>24.22</td> <td>29.37</td> <td>194</td> <td>15 QP</td> <td>HORIZONTAL</td> </tr> <tr> <td>5</td> <td>672.14</td> <td>43.45</td> <td>46.00</td> <td>-2.55</td> <td>44.50</td> <td>3.45</td> <td>24.85</td> <td>29.35</td> <td>176</td> <td>0 QP</td> <td>HORIZONTAL</td> </tr> <tr> <td>6</td> <td>912.70</td> <td>34.29</td> <td>46.00</td> <td>-11.71</td> <td>32.17</td> <td>4.57</td> <td>26.33</td> <td>28.78</td> <td>125</td> <td>360 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>					Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		1	40.67	28.07	40.00	-11.93	36.36	1.19	19.06	28.54	100	92 Peak	HORIZONTAL	2	52.31	26.64	40.00	-13.36	40.30	1.37	13.51	28.54	150	173 Peak	HORIZONTAL	3	480.08	36.81	46.00	-9.19	40.12	2.87	22.97	29.15	100	4 Peak	HORIZONTAL	4	576.11	45.51	46.00	-0.49	48.41	2.25	24.22	29.37	194	15 QP	HORIZONTAL	5	672.14	43.45	46.00	-2.55	44.50	3.45	24.85	29.35	176	0 QP	HORIZONTAL	6	912.70	34.29	46.00	-11.71	32.17	4.57	26.33	28.78	125	360 Peak	HORIZONTAL
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																																																								
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RSE below 1GHz Result

Appendix F.1

RSE below 1GHz Result																																																																																																			
Operating Mode	1	Polarization	Vertical																																																																																																
Operating Function	Normal Link																																																																																																		
<p>Date: 2018-09-06 Time: 00:35:08</p>																																																																																																			
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	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																																																								
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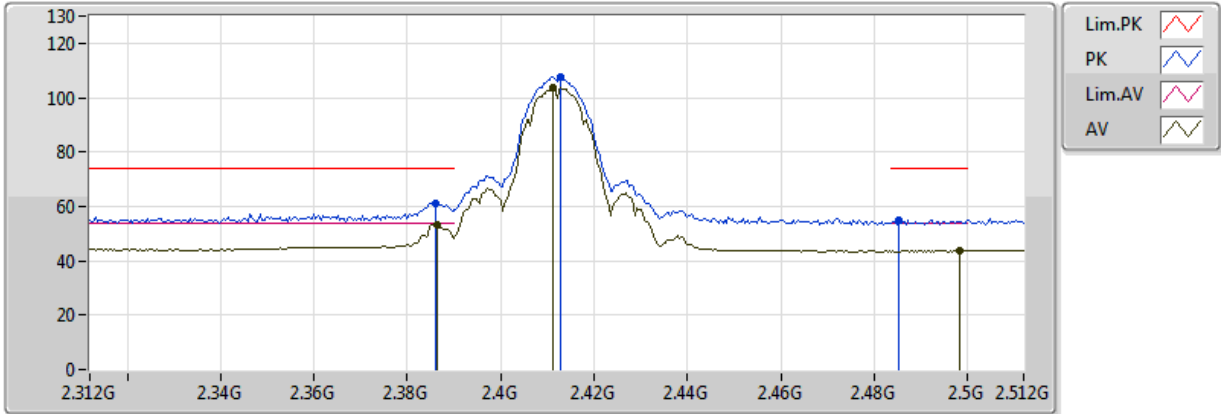
Summary

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	-	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.3896G	53.99	54.00	-0.01	30.97	3	Vertical	334	1.17	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

07/09/2018



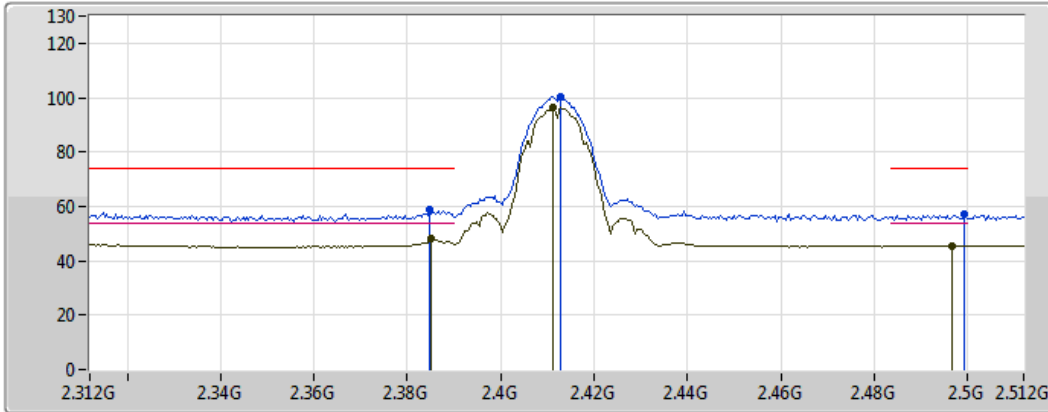
EUT Y_1TX
Setting 68
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.386G	61.29	74.00	-12.71	30.97	3	Vertical	338	1.10	-
AV	2.3864G	53.41	54.00	-0.59	30.97	3	Vertical	338	1.10	-
PK	2.4128G	107.61	Inf	-Inf	30.97	3	Vertical	338	1.10	-
AV	2.4112G	103.85	Inf	-Inf	30.96	3	Vertical	338	1.10	-
PK	2.4852G	55.01	74.00	-18.99	31.17	3	Vertical	338	1.10	-
AV	2.4984G	43.62	54.00	-10.38	31.21	3	Vertical	338	1.10	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

07/09/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a red zigzag marker
- PK: Blue line with a blue zigzag marker
- Lim.AV: Pink line with a pink zigzag marker
- AV: Green line with a green zigzag marker

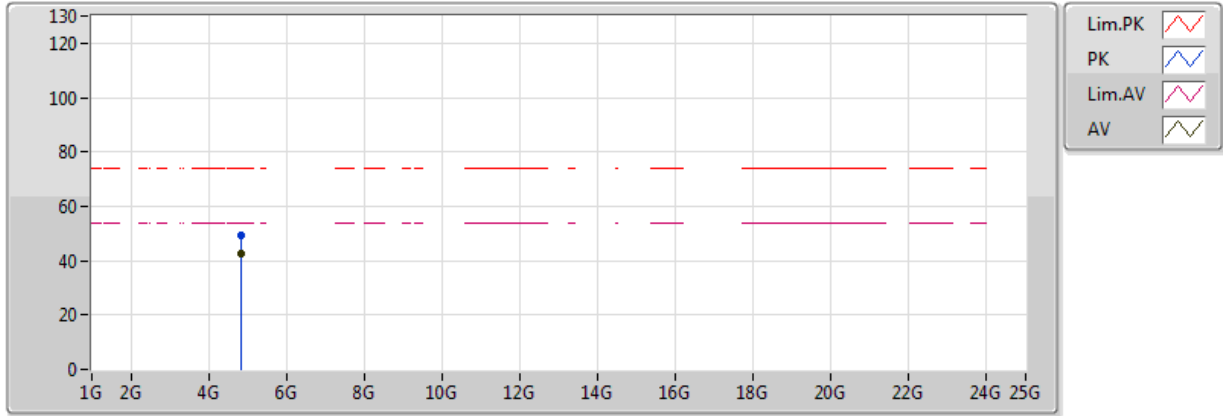
EUT Y_1TX
Setting 68
04-E-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3848G	58.86	74.00	-15.14	33.16	3	Horizontal	41	1.73	-
AV	2.3852G	47.95	54.00	-6.05	33.16	3	Horizontal	41	1.73	-
PK	2.4128G	100.38	Inf	-Inf	33.17	3	Horizontal	41	1.73	-
AV	2.4112G	96.47	Inf	-Inf	33.17	3	Horizontal	41	1.73	-
PK	2.4992G	57.24	74.00	-16.76	33.19	3	Horizontal	41	1.73	-
AV	2.4968G	45.55	54.00	-8.45	33.18	3	Horizontal	41	1.73	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

07/09/2018



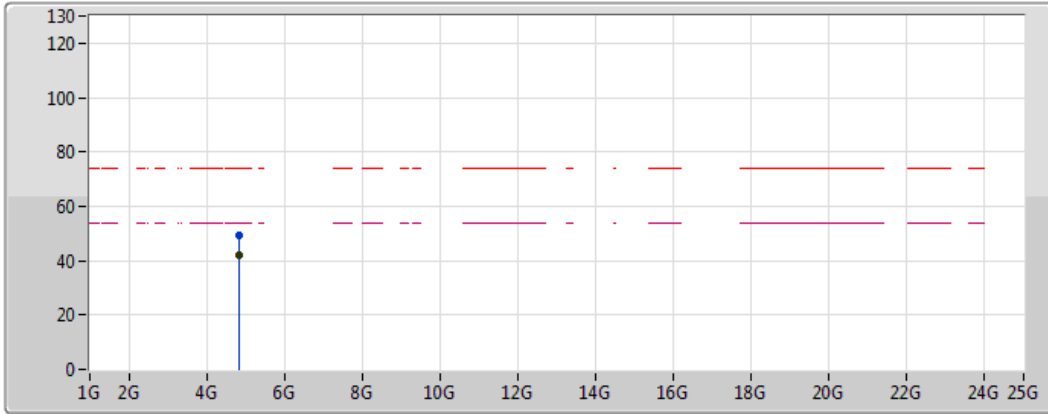
EUT Y_1TX
Setting 68
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.82386G	49.44	74.00	-24.56	4.00	3	Vertical	43	1.95	-
AV	4.82396G	42.40	54.00	-11.60	4.00	3	Vertical	43	1.95	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

07/09/2018



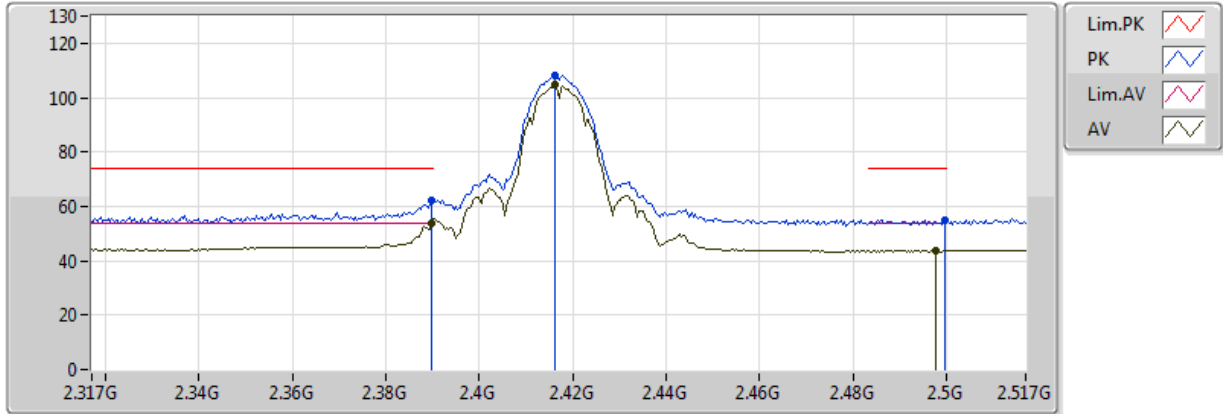
EUT Y_1TX
Setting 68
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.82376G	49.04	74.00	-24.96	4.00	3	Horizontal	63	1.73	-
AV	4.82394G	41.96	54.00	-12.04	4.00	3	Horizontal	63	1.73	-

802.11b_Nss1,(1Mbps)_1TX

2417MHz_TX

07/09/2018



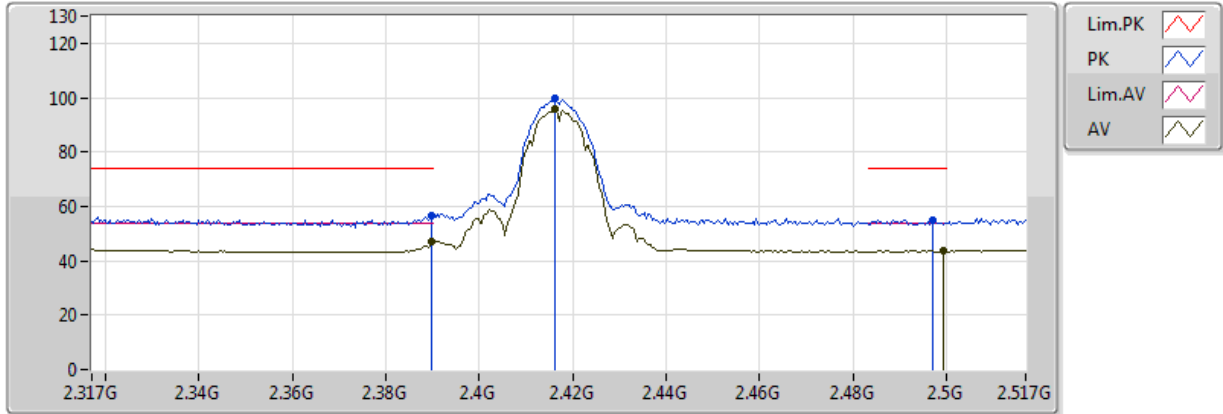
EUT Y_1TX
Setting 68
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3898G	62.28	74.00	-11.72	30.97	3	Vertical	336	1.07	-
AV	2.3898G	53.79	54.00	-0.21	30.97	3	Vertical	336	1.07	-
PK	2.4162G	108.20	Inf	-Inf	30.98	3	Vertical	336	1.07	-
AV	2.4162G	104.55	Inf	-Inf	30.98	3	Vertical	336	1.07	-
PK	2.4998G	55.04	74.00	-18.96	31.22	3	Vertical	336	1.07	-
AV	2.4978G	43.78	54.00	-10.22	31.21	3	Vertical	336	1.07	-

802.11b_Nss1,(1Mbps)_1TX

2417MHz_TX

07/09/2018



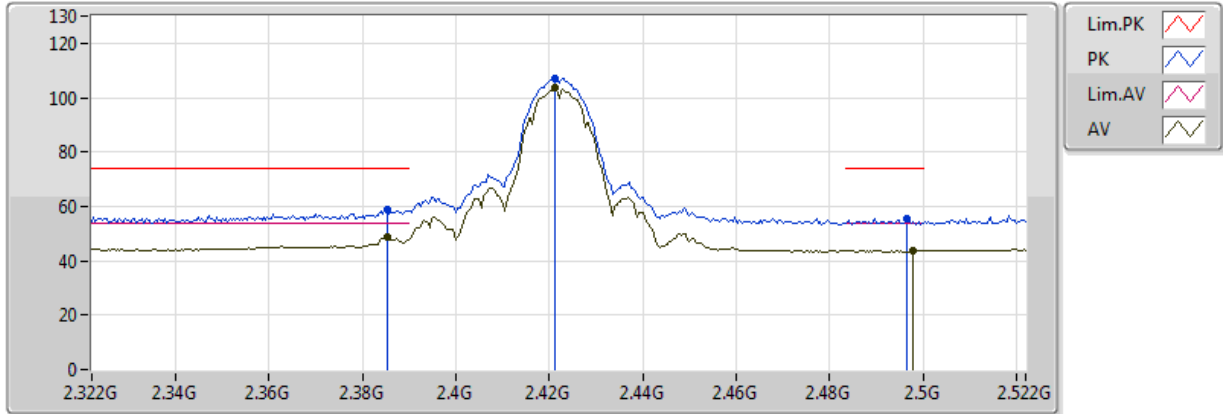
EUT Y_1TX
Setting 68
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3898G	56.63	74.00	-17.37	30.97	3	Horizontal	288	1.67	-
AV	2.3898G	46.84	54.00	-7.16	30.97	3	Horizontal	288	1.67	-
PK	2.4162G	99.51	Inf	-Inf	30.98	3	Horizontal	288	1.67	-
AV	2.4162G	95.76	Inf	-Inf	30.98	3	Horizontal	288	1.67	-
PK	2.497G	55.15	74.00	-18.85	31.21	3	Horizontal	288	1.67	-
AV	2.4994G	43.66	54.00	-10.34	31.22	3	Horizontal	288	1.67	-

802.11b_Nss1,(1Mbps)_1TX

2422MHz_TX

07/09/2018



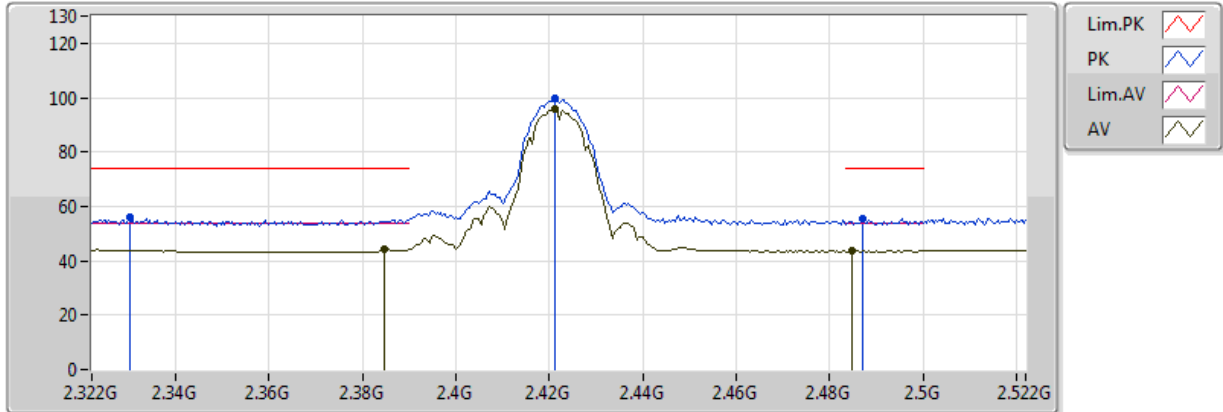
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3852G	58.88	74.00	-15.12	30.97	3	Vertical	39	1.50	-
AV	2.3852G	48.63	54.00	-5.37	30.97	3	Vertical	39	1.50	-
PK	2.4212G	107.17	Inf	-Inf	30.99	3	Vertical	39	1.50	-
AV	2.4212G	103.46	Inf	-Inf	30.99	3	Vertical	39	1.50	-
PK	2.4964G	55.33	74.00	-18.67	31.21	3	Vertical	39	1.50	-
AV	2.498G	43.72	54.00	-10.28	31.21	3	Vertical	39	1.50	-

802.11b_Nss1,(1Mbps)_1TX

2422MHz_TX

07/09/2018



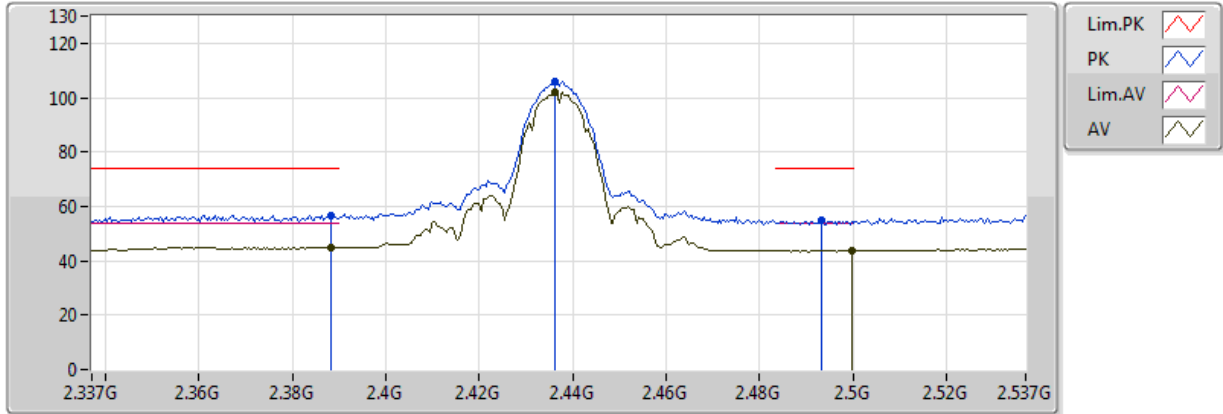
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.33G	55.98	74.00	-18.02	31.14	3	Horizontal	289	1.67	-
AV	2.3848G	44.19	54.00	-9.81	30.97	3	Horizontal	289	1.67	-
PK	2.4212G	99.68	Inf	-Inf	30.99	3	Horizontal	289	1.67	-
AV	2.4212G	95.95	Inf	-Inf	30.99	3	Horizontal	289	1.67	-
PK	2.4872G	55.39	74.00	-18.61	31.18	3	Horizontal	289	1.67	-
AV	2.4848G	43.55	54.00	-10.45	31.17	3	Horizontal	289	1.67	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

07/09/2018



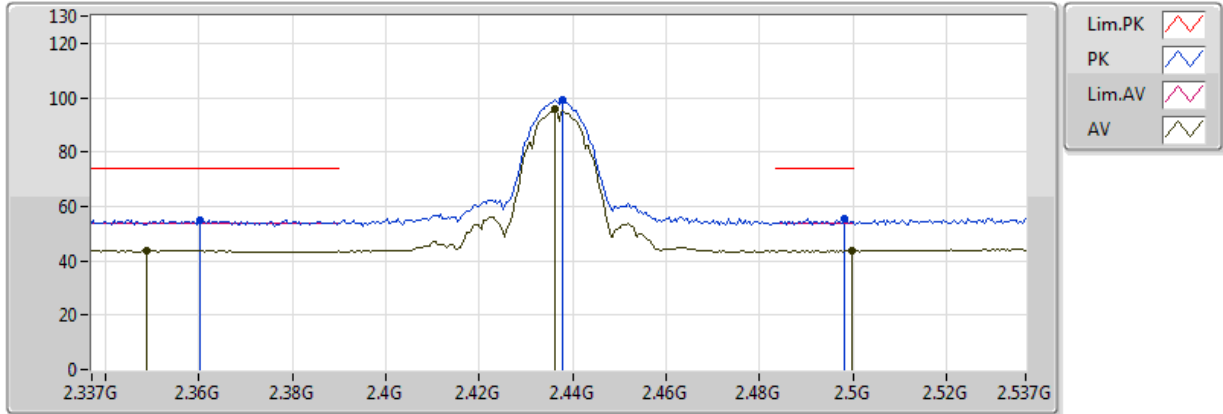
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3882G	56.84	74.00	-17.16	30.97	3	Vertical	332	1.08	-
AV	2.3882G	45.08	54.00	-8.92	30.97	3	Vertical	332	1.08	-
PK	2.4362G	105.79	Inf	-Inf	31.03	3	Vertical	332	1.08	-
AV	2.4362G	102.05	Inf	-Inf	31.03	3	Vertical	332	1.08	-
PK	2.4934G	54.94	74.00	-19.06	31.20	3	Vertical	332	1.08	-
AV	2.4998G	43.76	54.00	-10.24	31.22	3	Vertical	332	1.08	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

07/09/2018



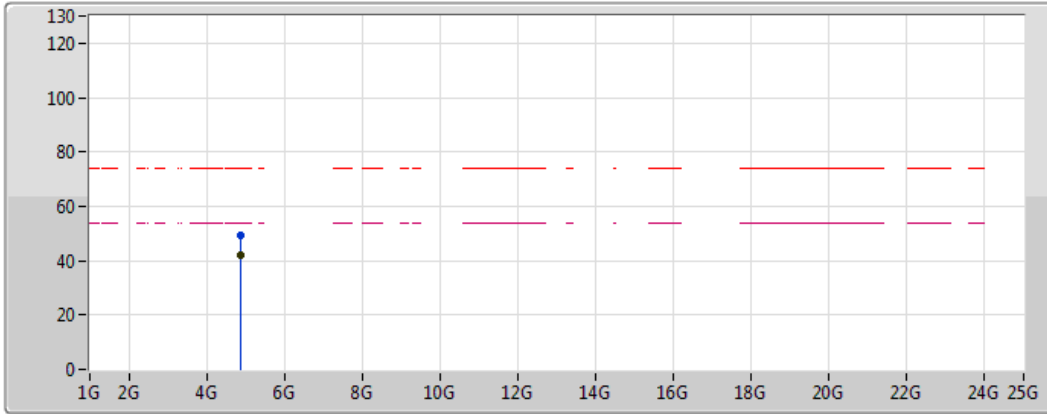
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3602G	55.08	74.00	-18.92	31.05	3	Horizontal	44	1.07	-
AV	2.3486G	43.81	54.00	-10.19	31.09	3	Horizontal	44	1.07	-
PK	2.4378G	99.21	Inf	-Inf	31.04	3	Horizontal	44	1.07	-
AV	2.4362G	95.55	Inf	-Inf	31.03	3	Horizontal	44	1.07	-
PK	2.4982G	55.65	74.00	-18.35	31.21	3	Horizontal	44	1.07	-
AV	2.4998G	43.73	54.00	-10.27	31.22	3	Horizontal	44	1.07	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

07/09/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line)
- Lim.AV (Magenta dashed line)
- AV (Black line)

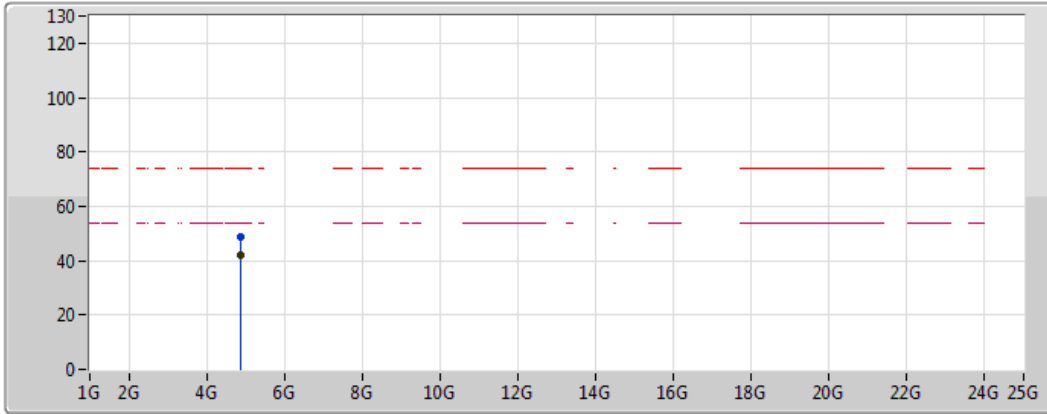
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.87398G	49.14	74.00	-24.86	4.20	3	Vertical	22	1.98	-
AV	4.87398G	42.22	54.00	-11.78	4.20	3	Vertical	22	1.98	-





802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

07/09/2018



Legend:

- Lim.PK 
- PK 
- Lim.AV 
- AV 

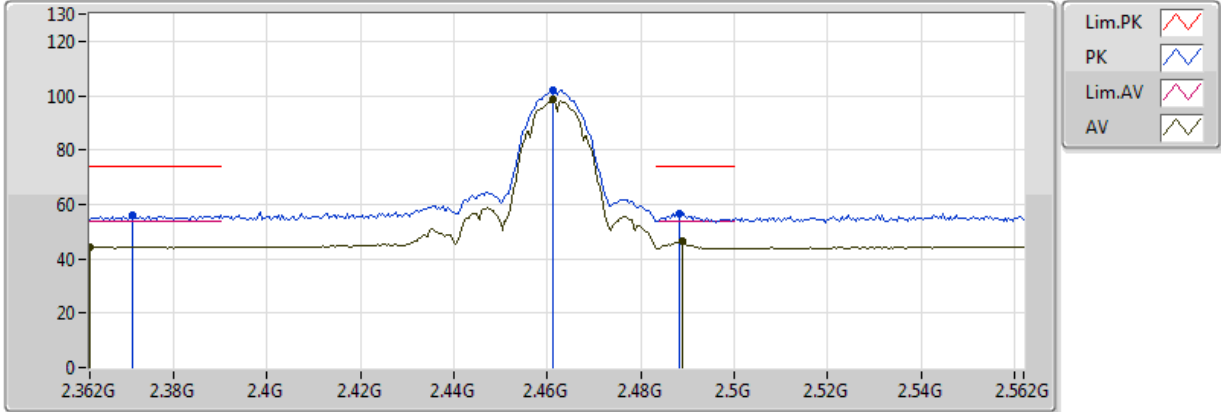
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.874G	48.52	74.00	-25.48	4.20	3	Horizontal	309	1.02	-
AV	4.874G	41.89	54.00	-12.11	4.20	3	Horizontal	309	1.02	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

07/09/2018



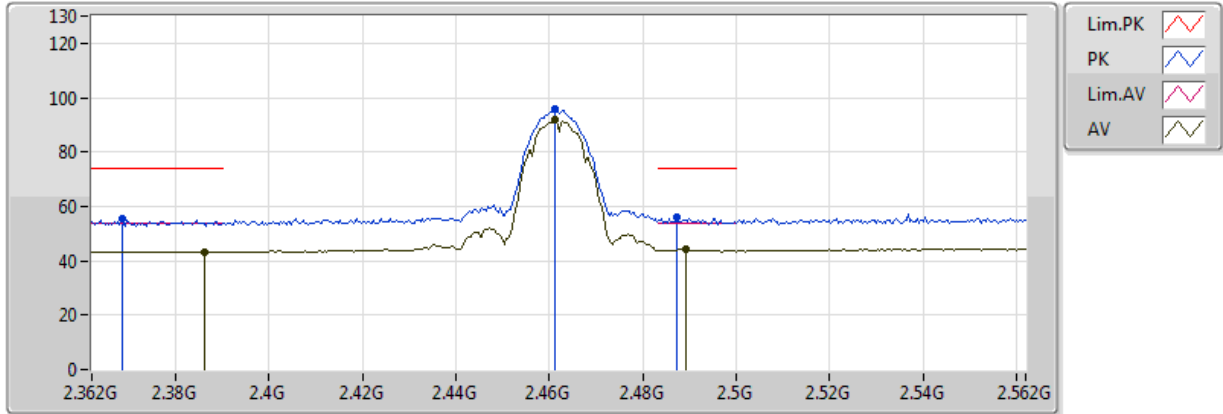
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3712G	56.11	74.00	-17.89	31.01	3	Vertical	333	1.04	-
AV	2.362G	44.53	54.00	-9.47	31.05	3	Vertical	333	1.04	-
PK	2.4612G	102.09	Inf	-Inf	31.11	3	Vertical	333	1.04	-
AV	2.4612G	98.52	Inf	-Inf	31.11	3	Vertical	333	1.04	-
PK	2.4884G	56.86	74.00	-17.14	31.19	3	Vertical	333	1.04	-
AV	2.4888G	46.64	54.00	-7.36	31.19	3	Vertical	333	1.04	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

07/09/2018



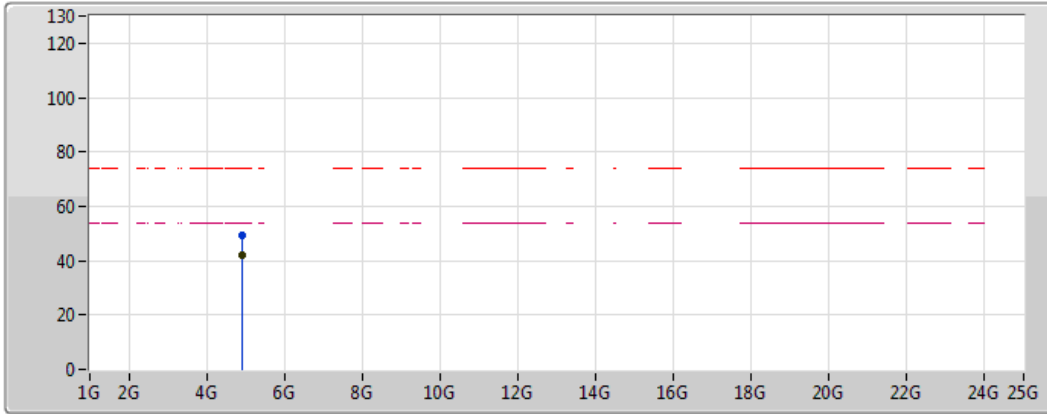
EUT Y_1TX
Setting 75
01-K-3
FSP





Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3684G	55.45	74.00	-18.55	31.03	3	Horizontal	40	1.11	-
AV	2.386G	43.34	54.00	-10.66	30.97	3	Horizontal	40	1.11	-
PK	2.4612G	95.60	Inf	-Inf	31.11	3	Horizontal	40	1.11	-
AV	2.4612G	91.96	Inf	-Inf	31.11	3	Horizontal	40	1.11	-
PK	2.4872G	55.92	74.00	-18.08	31.18	3	Horizontal	40	1.11	-
AV	2.4892G	44.35	54.00	-9.65	31.19	3	Horizontal	40	1.11	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

07/09/2018



- Lim.PK 
- PK 
- Lim.AV 
- AV 

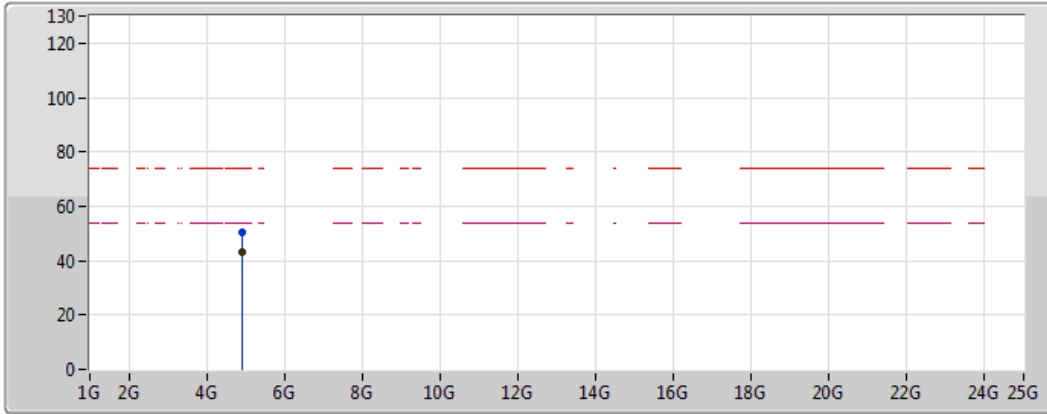
EUT Y_1TX
Setting 75
01-K-3
FSP





Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.924G	49.41	74.00	-24.59	4.40	3	Vertical	23	1.96	-
AV	4.924G	41.95	54.00	-12.05	4.40	3	Vertical	23	1.96	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

07/09/2018



- Lim.PK 
- PK 
- Lim.AV 
- AV 

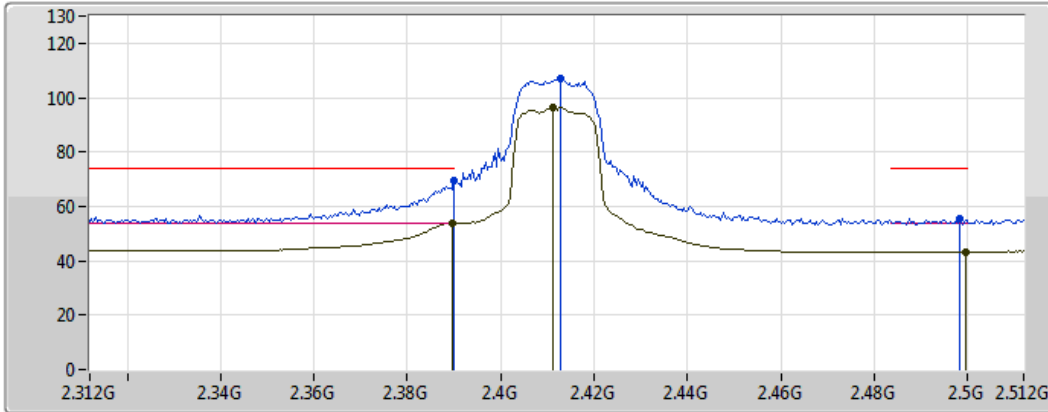
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.9236G	50.30	74.00	-23.70	4.40	3	Horizontal	311	1.02	-
AV	4.924G	43.25	54.00	-10.75	4.40	3	Horizontal	311	1.02	-

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

07/09/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a red zigzag icon
- PK: Blue line with a blue zigzag icon
- Lim.AV: Green line with a green zigzag icon
- AV: Black line with a black zigzag icon

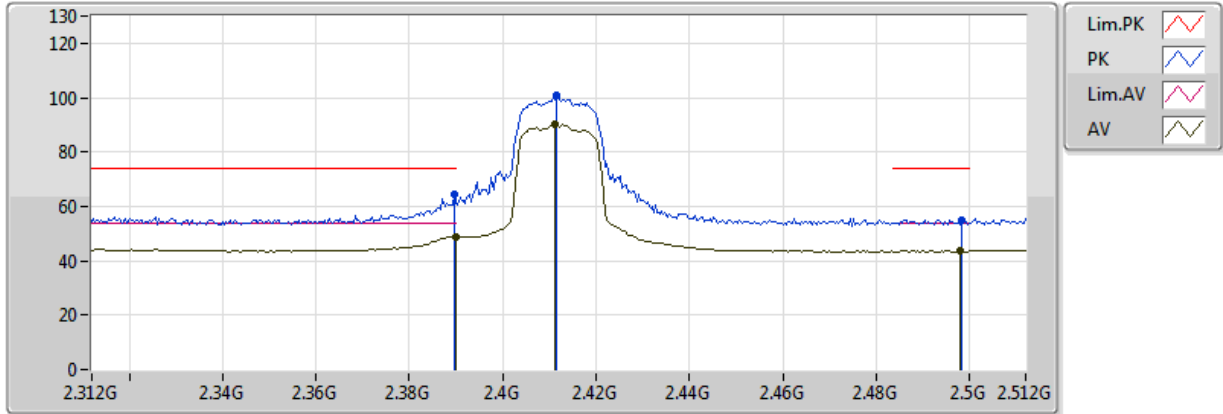
EUT Y_1TX
Setting 57
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.389998G	69.37	74.00	-4.63	30.97	3	Vertical	334	1.17	-
AV	2.3896G	53.99	54.00	-0.01	30.97	3	Vertical	334	1.17	-
PK	2.4128G	106.81	Inf	-Inf	30.97	3	Vertical	334	1.17	-
AV	2.4112G	96.42	Inf	-Inf	30.96	3	Vertical	334	1.17	-
PK	2.4984G	55.35	74.00	-18.65	31.21	3	Vertical	334	1.17	-
AV	2.4996G	43.23	54.00	-10.77	31.22	3	Vertical	334	1.17	-

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

07/09/2018



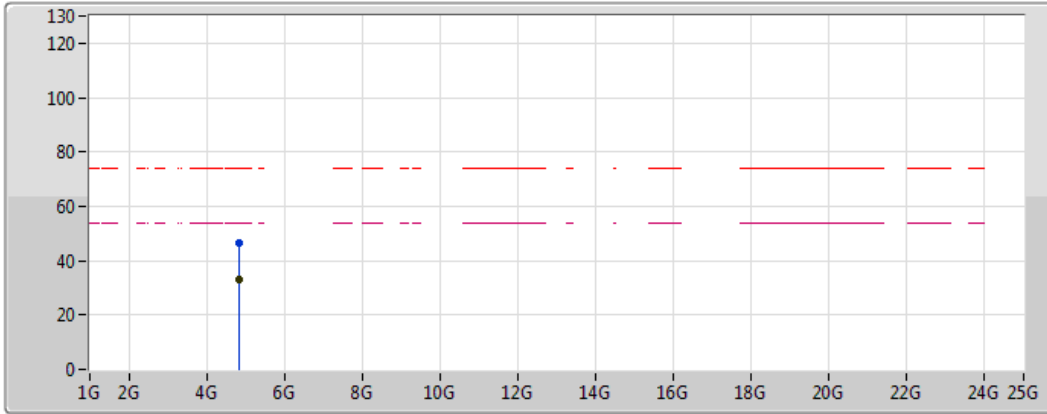
EUT Y_1TX
Setting 57
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3896G	64.27	74.00	-9.73	30.97	3	Horizontal	39	1.02	-
AV	2.389998G	49.03	54.00	-4.97	30.97	3	Horizontal	39	1.02	-
PK	2.4116G	100.59	Inf	-Inf	30.96	3	Horizontal	39	1.02	-
AV	2.4112G	90.44	Inf	-Inf	30.96	3	Horizontal	39	1.02	-
PK	2.4984G	55.19	74.00	-18.81	31.21	3	Horizontal	39	1.02	-
AV	2.498G	43.61	54.00	-10.39	31.21	3	Horizontal	39	1.02	-





802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

07/09/2018



Legend:

- Lim.PK: 
- PK: 
- Lim.AV: 
- AV: 

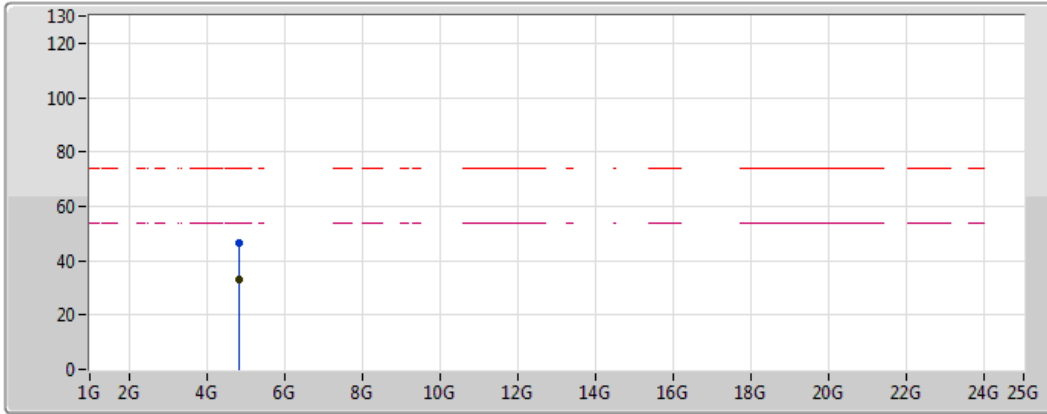
EUT Y_1TX
Setting 57
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.82836G	46.27	74.00	-27.73	4.02	3	Vertical	111	1.61	-
AV	4.82786G	33.10	54.00	-20.90	4.01	3	Vertical	111	1.61	-

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

07/09/2018



Legend:

- Lim.PK:
- PK:
- Lim.AV:
- AV:

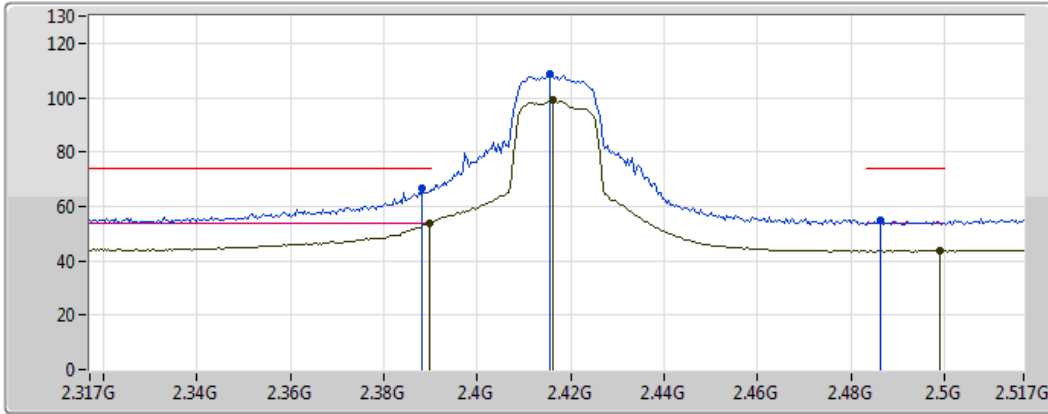
EUT Y_1TX
Setting 57
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.82496G	46.62	74.00	-27.38	4.00	3	Horizontal	267	1.74	-
AV	4.82386G	32.92	54.00	-21.08	4.00	3	Horizontal	267	1.74	-

802.11g_Nss1,(6Mbps)_1TX

2417MHz_TX

07/09/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a red waveform icon
- PK: Blue line with a blue waveform icon
- Lim.AV: Red line with a red waveform icon
- AV: Blue line with a blue waveform icon

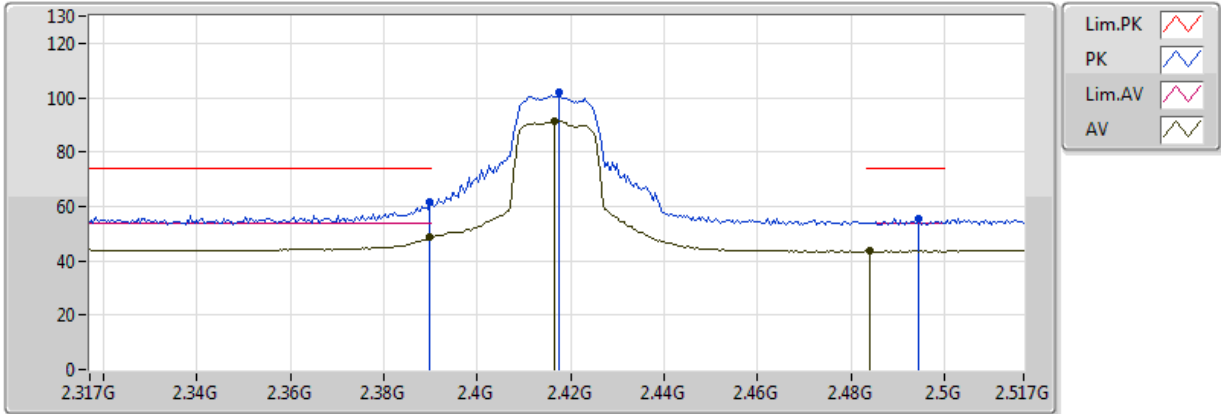
EUT Y_1TX
Setting 63
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3882G	66.49	74.00	-7.51	30.97	3	Vertical	338	1.20	-
AV	2.3898G	53.68	54.00	-0.32	30.97	3	Vertical	338	1.20	-
PK	2.4154G	108.68	Inf	-Inf	30.97	3	Vertical	338	1.20	-
AV	2.4162G	98.94	Inf	-Inf	30.98	3	Vertical	338	1.20	-
PK	2.4862G	54.93	74.00	-19.07	31.18	3	Vertical	338	1.20	-
AV	2.499G	43.62	54.00	-10.38	31.22	3	Vertical	338	1.20	-

802.11g_Nss1,(6Mbps)_1TX

2417MHz_TX

07/09/2018



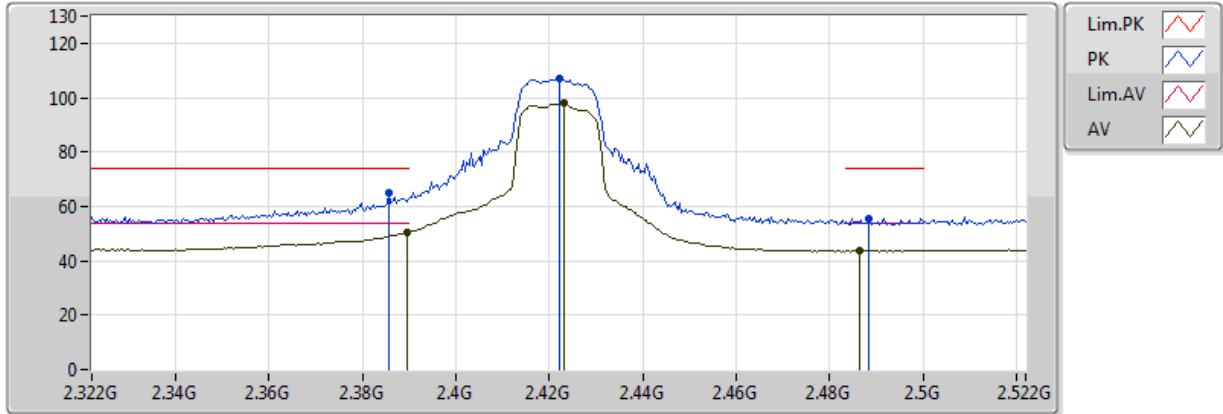
EUT Y_1TX
Setting 63
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3898G	61.47	74.00	-12.53	30.97	3	Horizontal	41	1.01	-
AV	2.3898G	48.53	54.00	-5.47	30.97	3	Horizontal	41	1.01	-
PK	2.4174G	101.73	Inf	-Inf	30.98	3	Horizontal	41	1.01	-
AV	2.4166G	91.43	Inf	-Inf	30.98	3	Horizontal	41	1.01	-
PK	2.4946G	55.40	74.00	-18.60	31.21	3	Horizontal	41	1.01	-
AV	2.4842G	43.60	54.00	-10.40	31.17	3	Horizontal	41	1.01	-

802.11g_Nss1,(6Mbps)_1TX

2422MHz_TX

07/09/2018



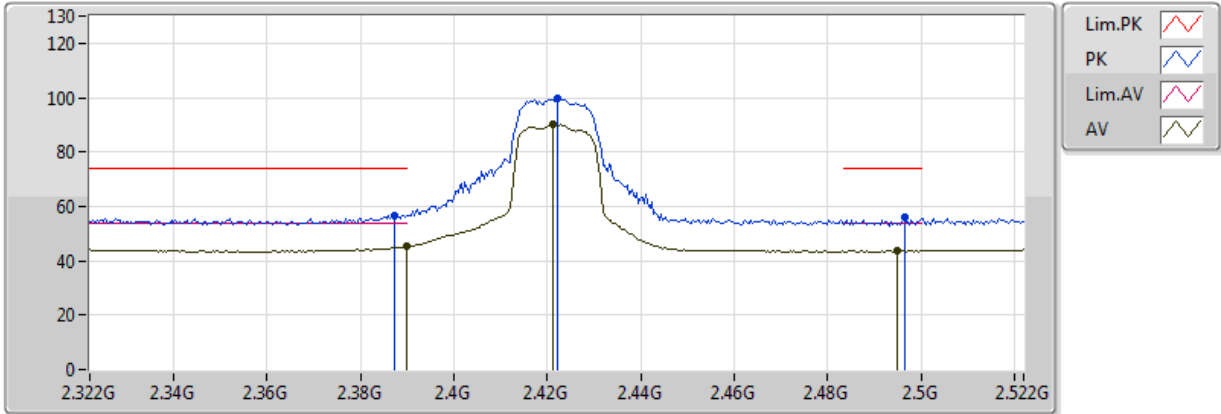
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3856G	65.09	74.00	-8.91	30.97	3	Vertical	40	1.50	-
AV	2.3896G	50.56	54.00	-3.44	30.97	3	Vertical	40	1.50	-
PK	2.422G	107.29	Inf	-Inf	30.99	3	Vertical	40	1.50	-
AV	2.4232G	97.86	Inf	-Inf	31.00	3	Vertical	40	1.50	-
PK	2.4884G	55.56	74.00	-18.44	31.19	3	Vertical	40	1.50	-
AV	2.4864G	43.69	54.00	-10.31	31.18	3	Vertical	40	1.50	-

802.11g_Nss1,(6Mbps)_1TX

2422MHz_TX

07/09/2018



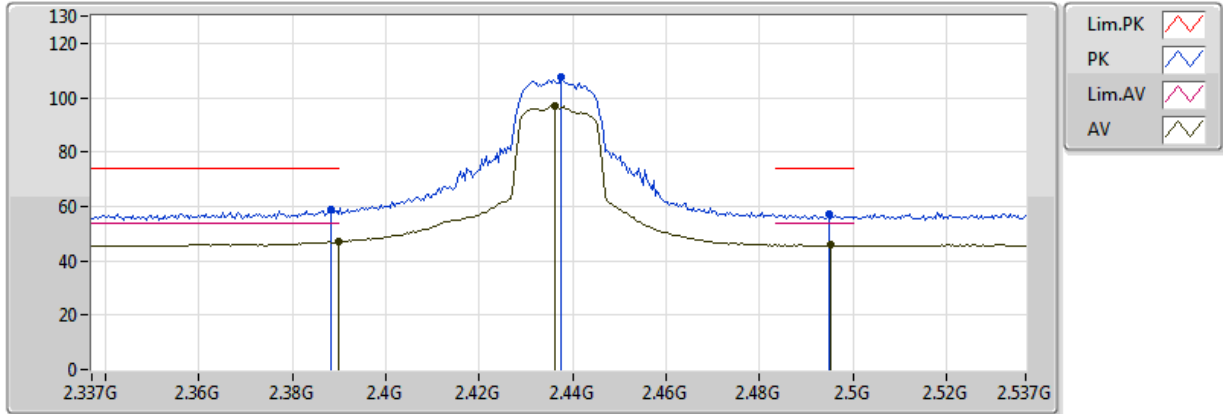
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3872G	56.83	74.00	-17.17	30.97	3	Horizontal	285	1.55	-
AV	2.389998G	45.27	54.00	-8.73	30.97	3	Horizontal	285	1.55	-
PK	2.422G	99.93	Inf	-Inf	30.99	3	Horizontal	285	1.55	-
AV	2.4212G	90.32	Inf	-Inf	30.99	3	Horizontal	285	1.55	-
PK	2.4964G	55.82	74.00	-18.18	31.21	3	Horizontal	285	1.55	-
AV	2.4948G	43.61	54.00	-10.39	31.21	3	Horizontal	285	1.55	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

07/09/2018



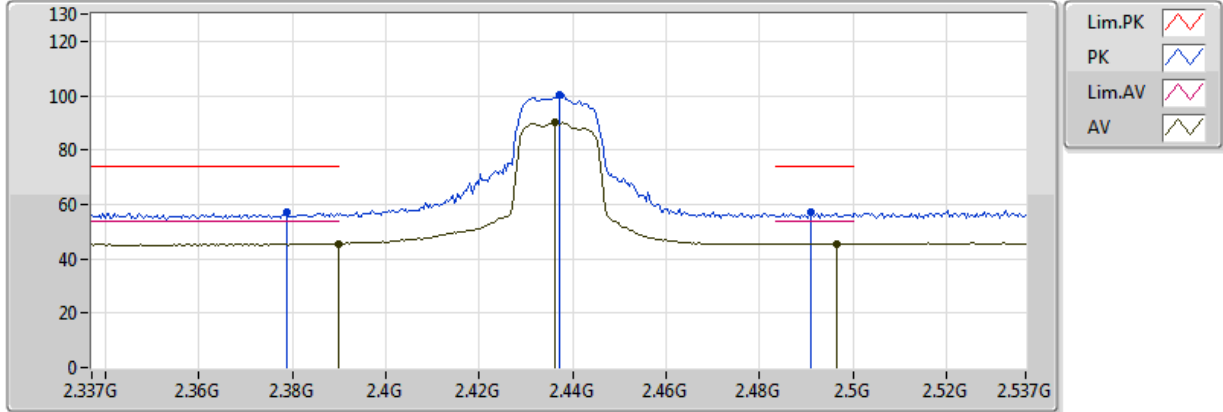
EUT Y_1TX
Setting 75
04-E-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3882G	58.57	74.00	-15.43	33.17	3	Vertical	44	1.89	-
AV	2.3898G	46.91	54.00	-7.09	33.17	3	Vertical	44	1.89	-
PK	2.4374G	107.58	Inf	-Inf	33.18	3	Vertical	44	1.89	-
AV	2.4362G	97.02	Inf	-Inf	33.18	3	Vertical	44	1.89	-
PK	2.495G	57.22	74.00	-16.78	33.19	3	Vertical	44	1.89	-
AV	2.4954G	45.80	54.00	-8.20	33.19	3	Vertical	44	1.89	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

07/09/2018



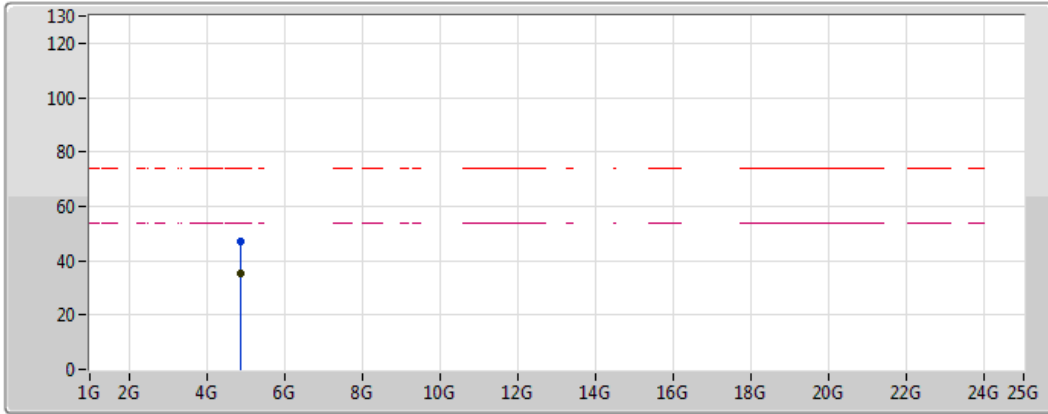
EUT Y_1TX
Setting 75
04-E-4
FSP





Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3786G	56.90	74.00	-17.10	33.16	3	Horizontal	38	1.51	-
AV	2.3898G	45.65	54.00	-8.35	33.17	3	Horizontal	38	1.51	-
PK	2.437G	100.22	Inf	-Inf	33.18	3	Horizontal	38	1.51	-
AV	2.4362G	90.27	Inf	-Inf	33.18	3	Horizontal	38	1.51	-
PK	2.491G	57.20	74.00	-16.80	33.18	3	Horizontal	38	1.51	-
AV	2.4966G	45.55	54.00	-8.45	33.19	3	Horizontal	38	1.51	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

07/09/2018



- Lim.PK 
- PK 
- Lim.AV 
- AV 

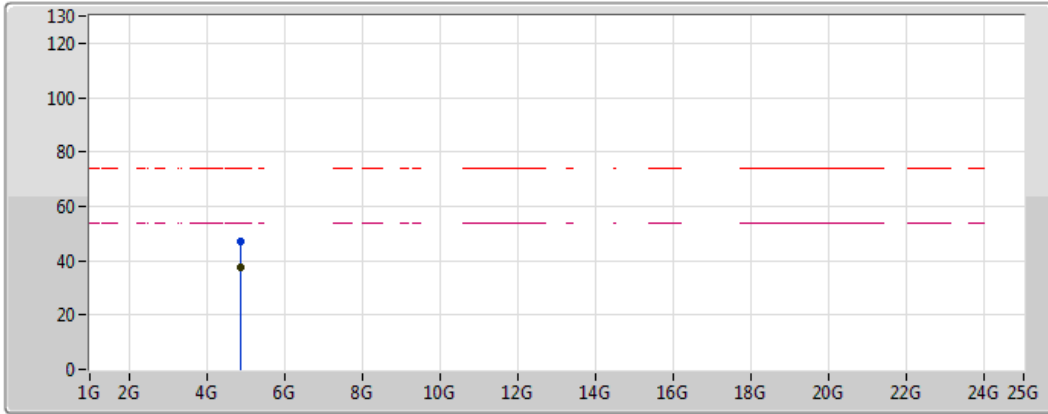
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.87396G	46.83	74.00	-27.17	4.20	3	Vertical	286	1.26	-
AV	4.87408G	35.21	54.00	-18.79	4.20	3	Vertical	286	1.26	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

07/09/2018



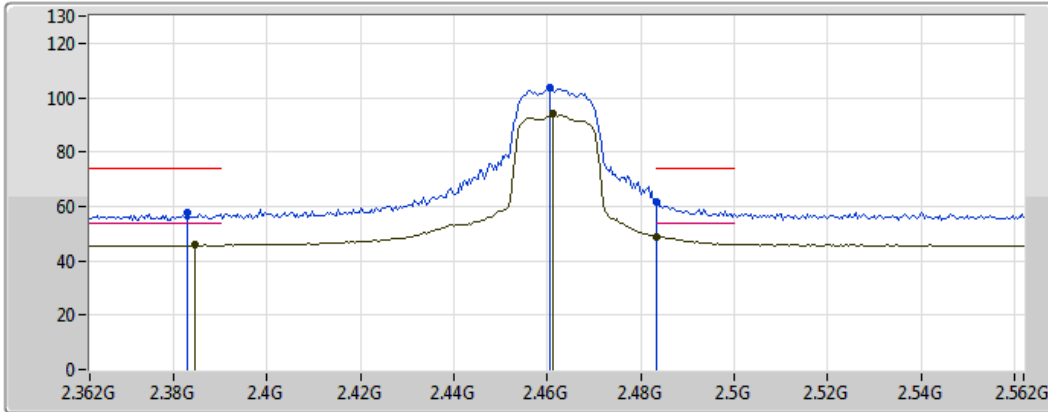
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.87394G	47.32	74.00	-26.68	4.20	3	Horizontal	280	2.07	-
AV	4.874G	37.43	54.00	-16.57	4.20	3	Horizontal	280	2.07	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

07/09/2018



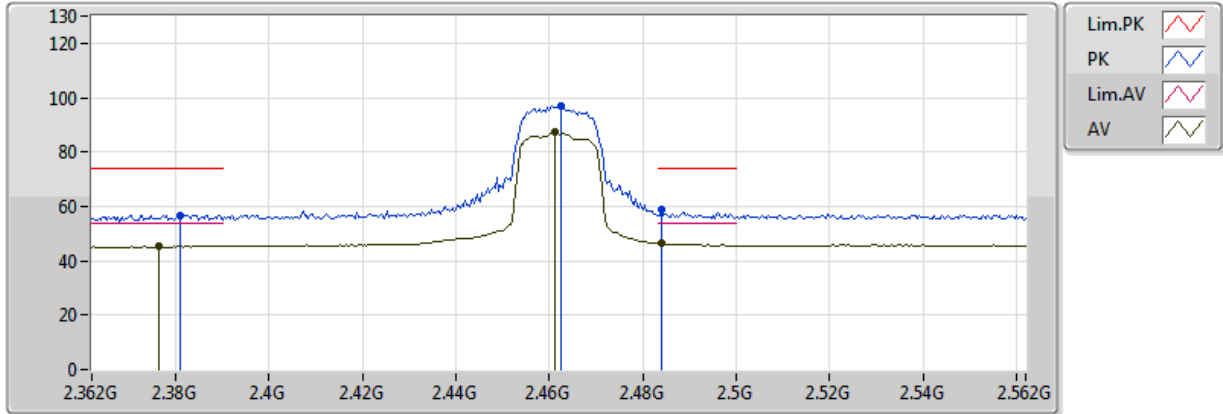
EUT Y_1TX
Setting 75
04-E-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3828G	57.58	74.00	-16.42	33.16	3	Vertical	46	1.48	-
AV	2.3844G	45.77	54.00	-8.23	33.16	3	Vertical	46	1.48	-
PK	2.4604G	103.42	Inf	-Inf	33.18	3	Vertical	46	1.48	-
AV	2.4612G	94.08	Inf	-Inf	33.18	3	Vertical	46	1.48	-
PK	2.483502G	61.63	74.00	-12.37	33.18	3	Vertical	46	1.48	-
AV	2.483502G	48.73	54.00	-5.27	33.18	3	Vertical	46	1.48	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

07/09/2018



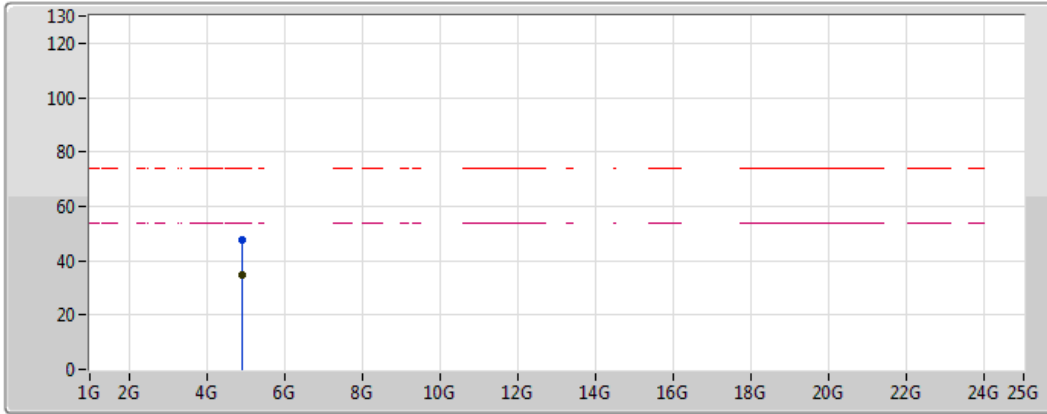
EUT Y_1TX
Setting 75
04-E-4
FSP





Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3808G	56.80	74.00	-17.20	33.16	3	Horizontal	34	1.44	-
AV	2.3764G	45.45	54.00	-8.55	33.16	3	Horizontal	34	1.44	-
PK	2.4624G	97.09	Inf	-Inf	33.18	3	Horizontal	34	1.44	-
AV	2.4612G	87.38	Inf	-Inf	33.18	3	Horizontal	34	1.44	-
PK	2.484G	58.78	74.00	-15.22	33.18	3	Horizontal	34	1.44	-
AV	2.484G	46.40	54.00	-7.60	33.18	3	Horizontal	34	1.44	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

07/09/2018



Lim.PK	
PK	
Lim.AV	
AV	

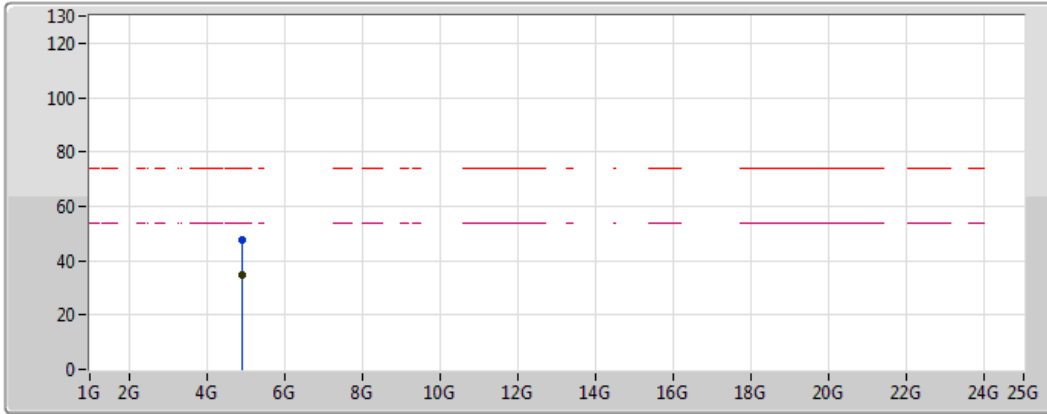
EUT Y_1TX
 Setting 75
 01-K-3
 FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.9197G	47.41	74.00	-26.59	4.39	3	Vertical	32	1.70	-
AV	4.92398G	34.92	54.00	-19.08	4.40	3	Vertical	32	1.70	-





802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

07/09/2018



Legend:

- Lim.PK 
- PK 
- Lim.AV 
- AV 

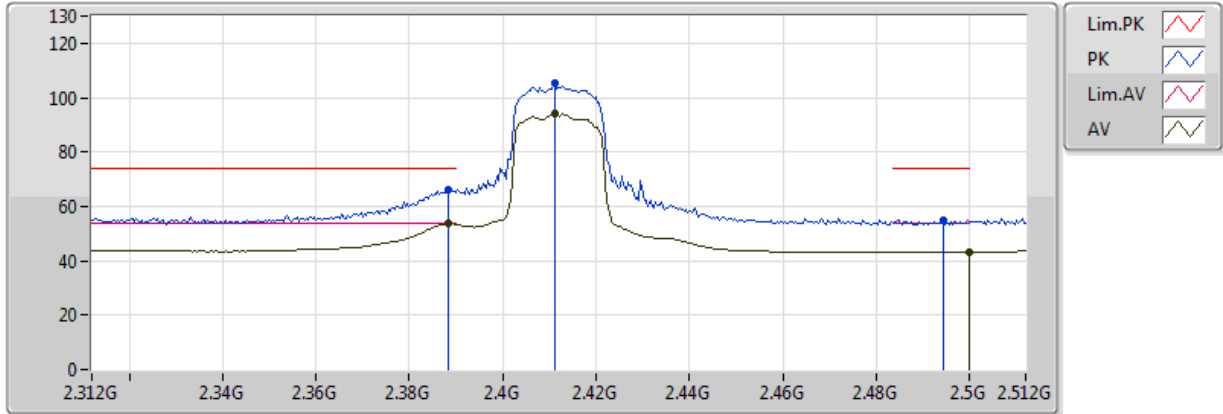
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.92466G	47.38	74.00	-26.62	4.41	3	Horizontal	287	2.05	-
AV	4.92402G	35.00	54.00	-19.00	4.40	3	Horizontal	287	2.05	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

07/09/2018



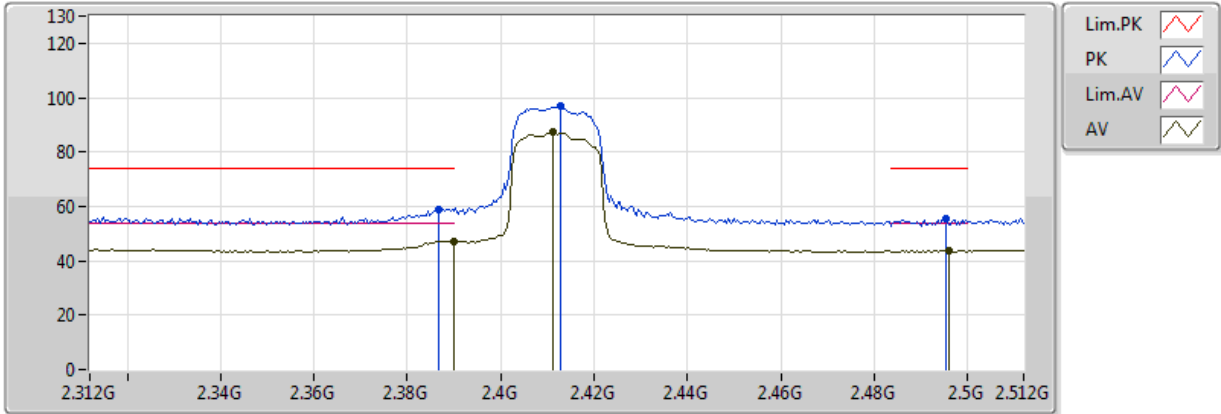
EUT Y_1TX
Setting 49
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3884G	66.24	74.00	-7.76	30.97	3	Vertical	335	1.08	-
AV	2.3884G	53.52	54.00	-0.48	30.97	3	Vertical	335	1.08	-
PK	2.4112G	105.51	Inf	-Inf	30.96	3	Vertical	335	1.08	-
AV	2.4112G	93.89	Inf	-Inf	30.96	3	Vertical	335	1.08	-
PK	2.4944G	55.13	74.00	-18.87	31.21	3	Vertical	335	1.08	-
AV	2.499998G	43.26	54.00	-10.74	31.22	3	Vertical	335	1.08	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

07/09/2018



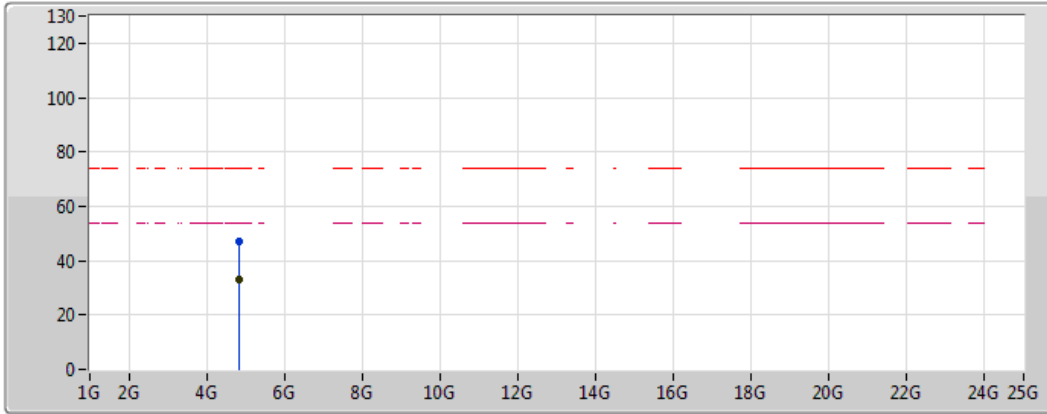
EUT Y_1TX
Setting 49
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3868G	58.89	74.00	-15.11	30.97	3	Horizontal	45	1.13	-
AV	2.389998G	47.27	54.00	-6.73	30.97	3	Horizontal	45	1.13	-
PK	2.4128G	97.04	Inf	-Inf	30.97	3	Horizontal	45	1.13	-
AV	2.4112G	87.61	Inf	-Inf	30.96	3	Horizontal	45	1.13	-
PK	2.4952G	55.60	74.00	-18.40	31.21	3	Horizontal	45	1.13	-
AV	2.496G	43.62	54.00	-10.38	31.21	3	Horizontal	45	1.13	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

07/09/2018



Legend for the spectrum plot:

- Lim.PK: Red dashed line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Magenta dashed line with a peak icon
- AV: Black line with a peak icon

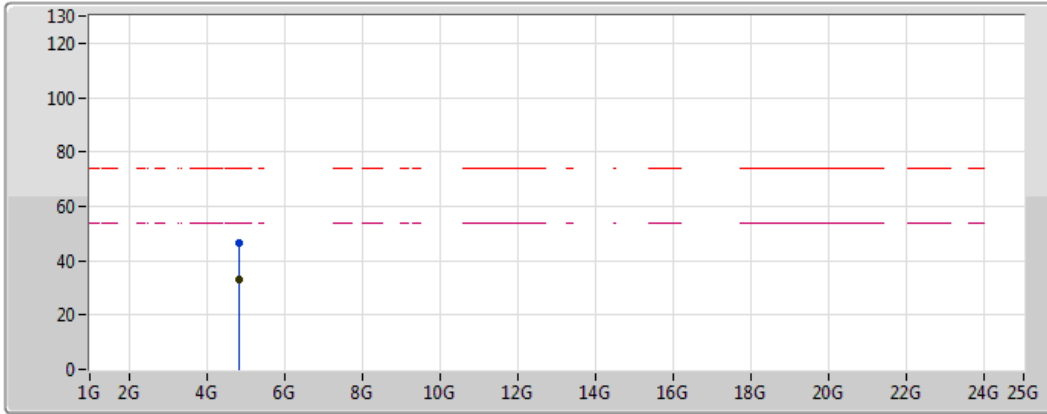
EUT Y_1TX
Setting 49
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.821G	46.79	74.00	-27.21	3.99	3	Vertical	190	2.19	-
AV	4.82022G	32.92	54.00	-21.08	3.98	3	Vertical	190	2.19	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

07/09/2018



Legend for the spectrum plot:

- Lim.PK: Red dashed line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Magenta dashed line with a peak icon
- AV: Black line with a peak icon

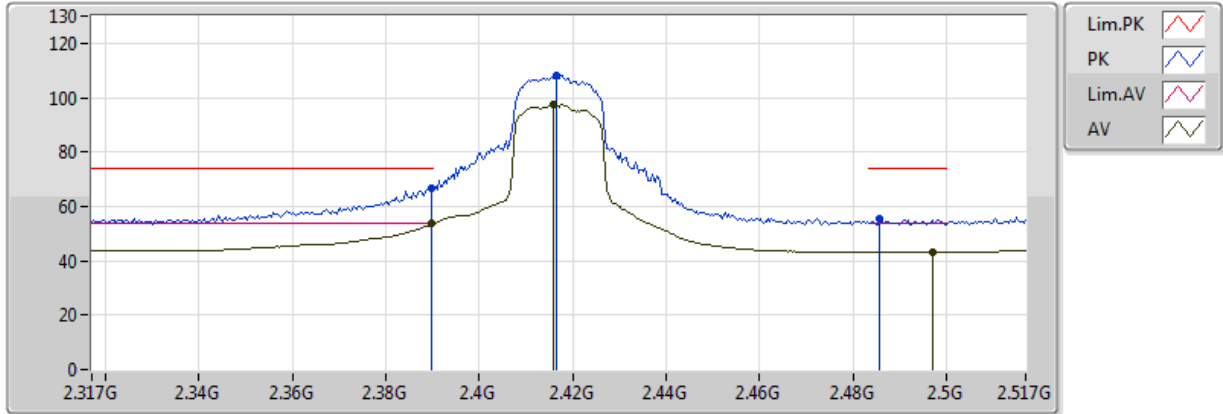
EUT Y_1TX
Setting 49
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.82068G	46.74	74.00	-27.26	3.98	3	Horizontal	307	1.02	-
AV	4.82692G	33.31	54.00	-20.69	4.01	3	Horizontal	307	1.02	-

802.11n HT20_Nss1,(MCS0)_1TX

2417MHz_TX

07/09/2018



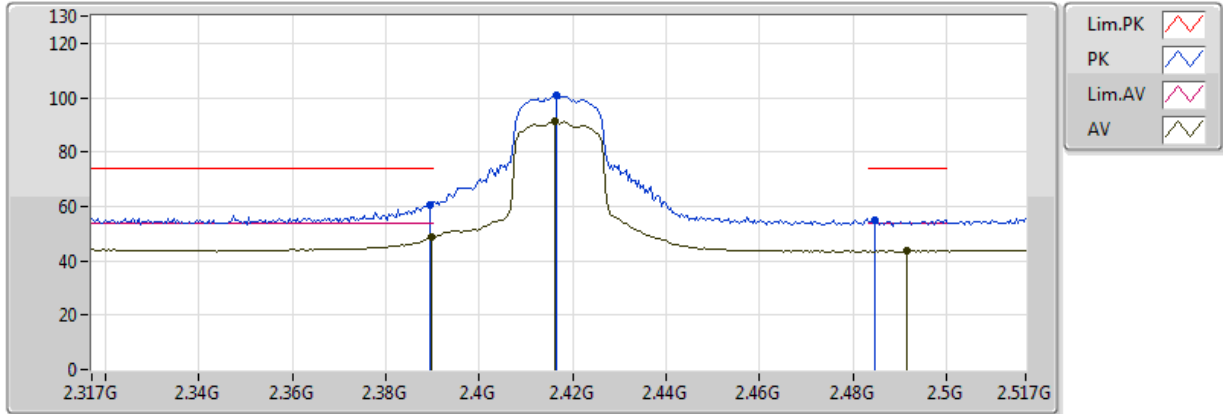
EUT Y_1TX
Setting 62
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3898G	66.48	74.00	-7.52	30.97	3	Vertical	334	1.00	-
AV	2.3898G	53.53	54.00	-0.47	30.97	3	Vertical	334	1.00	-
PK	2.4166G	108.38	Inf	-Inf	30.98	3	Vertical	334	1.00	-
AV	2.4158G	97.59	Inf	-Inf	30.98	3	Vertical	334	1.00	-
PK	2.4858G	55.46	74.00	-18.54	31.18	3	Vertical	334	1.00	-
AV	2.497G	43.30	54.00	-10.70	31.21	3	Vertical	334	1.00	-

802.11n HT20_Nss1,(MCS0)_1TX

2417MHz_TX

07/09/2018



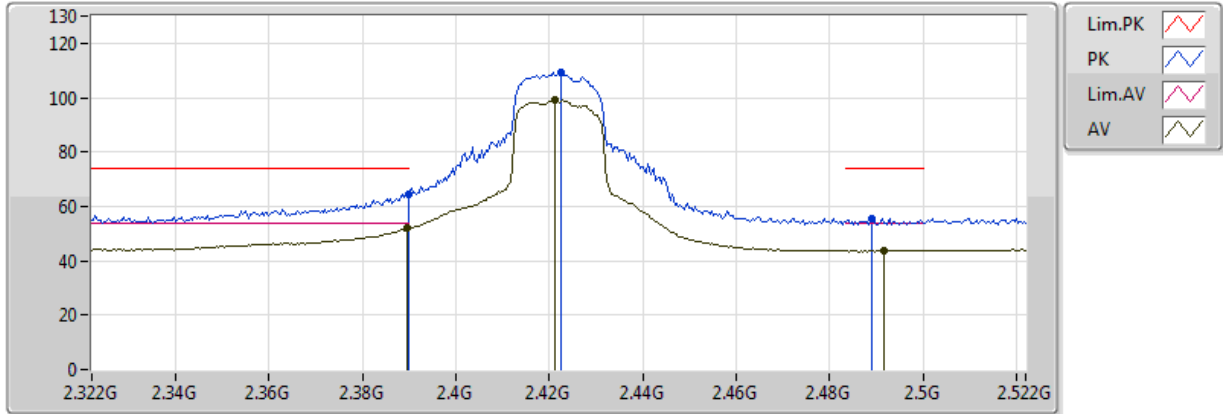
EUT Y_1TX
Setting 62
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3894G	60.59	74.00	-13.41	30.97	3	Horizontal	38	1.00	-
AV	2.3898G	48.56	54.00	-5.44	30.97	3	Horizontal	38	1.00	-
PK	2.4166G	101.11	Inf	-Inf	30.98	3	Horizontal	38	1.00	-
AV	2.4162G	91.20	Inf	-Inf	30.98	3	Horizontal	38	1.00	-
PK	2.4846G	55.12	74.00	-18.88	31.17	3	Horizontal	38	1.00	-
AV	2.4914G	43.55	54.00	-10.45	31.19	3	Horizontal	38	1.00	-

802.11n HT20_Nss1,(MCS0)_1TX

2422MHz_TX

07/09/2018



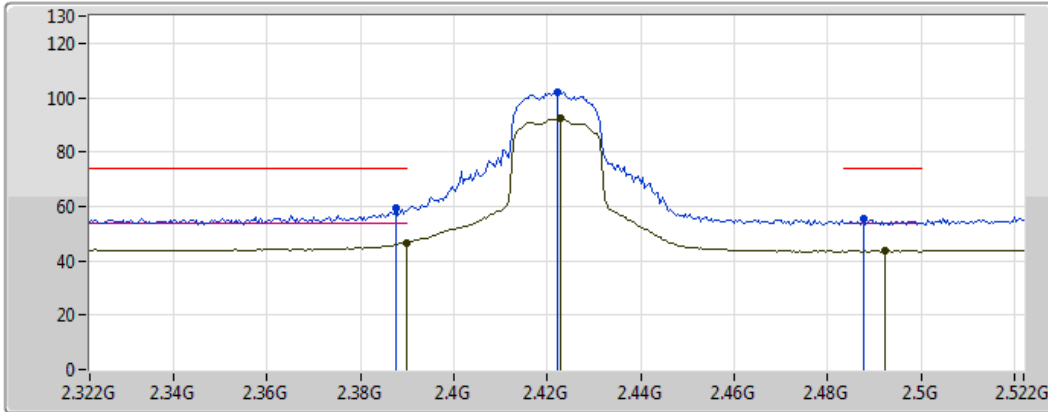
EUT Y_1TX
Setting 75
01-K-3
FSP





Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.389998G	64.68	74.00	-9.32	30.97	3	Vertical	336	1.05	-
AV	2.3896G	51.87	54.00	-2.13	30.97	3	Vertical	336	1.05	-
PK	2.4224G	109.07	Inf	-Inf	30.99	3	Vertical	336	1.05	-
AV	2.4212G	99.21	Inf	-Inf	30.99	3	Vertical	336	1.05	-
PK	2.4892G	55.33	74.00	-18.67	31.19	3	Vertical	336	1.05	-
AV	2.4916G	43.80	54.00	-10.20	31.19	3	Vertical	336	1.05	-

802.11n HT20_Nss1,(MCS0)_1TX

2422MHz_TX

07/09/2018



Lim.PK	
PK	
Lim.AV	
AV	

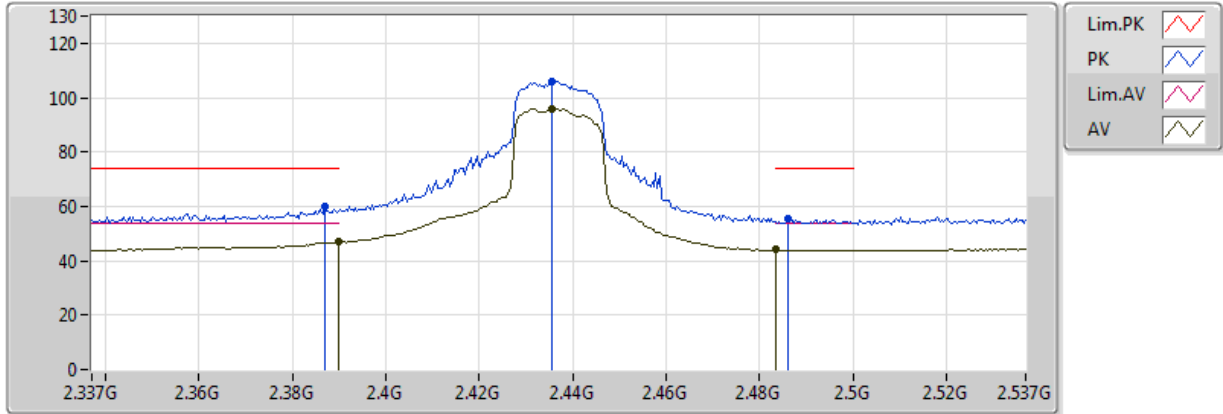
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3876G	59.60	74.00	-14.40	30.97	3	Horizontal	39	1.00	-
AV	2.389998G	46.69	54.00	-7.31	30.97	3	Horizontal	39	1.00	-
PK	2.422G	101.89	Inf	-Inf	30.99	3	Horizontal	39	1.00	-
AV	2.4228G	92.20	Inf	-Inf	31.00	3	Horizontal	39	1.00	-
PK	2.4876G	55.39	74.00	-18.61	31.19	3	Horizontal	39	1.00	-
AV	2.4924G	43.70	54.00	-10.30	31.20	3	Horizontal	39	1.00	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

07/09/2018



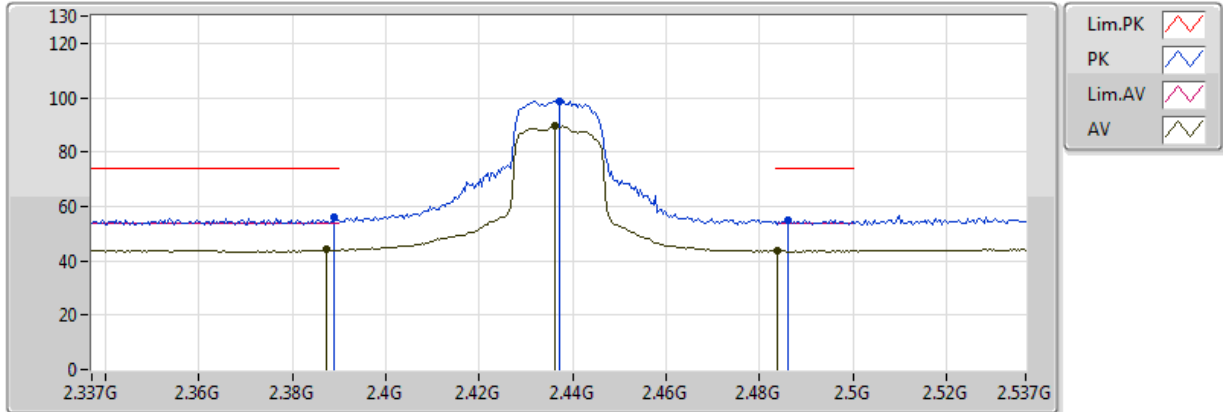
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.387G	59.86	74.00	-14.14	30.97	3	Vertical	329	1.05	-
AV	2.3898G	46.81	54.00	-7.19	30.97	3	Vertical	329	1.05	-
PK	2.4354G	105.96	Inf	-Inf	31.03	3	Vertical	329	1.05	-
AV	2.4354G	95.91	Inf	-Inf	31.03	3	Vertical	329	1.05	-
PK	2.4862G	55.73	74.00	-18.27	31.18	3	Vertical	329	1.05	-
AV	2.483502G	44.00	54.00	-10.00	31.17	3	Vertical	329	1.05	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

07/09/2018



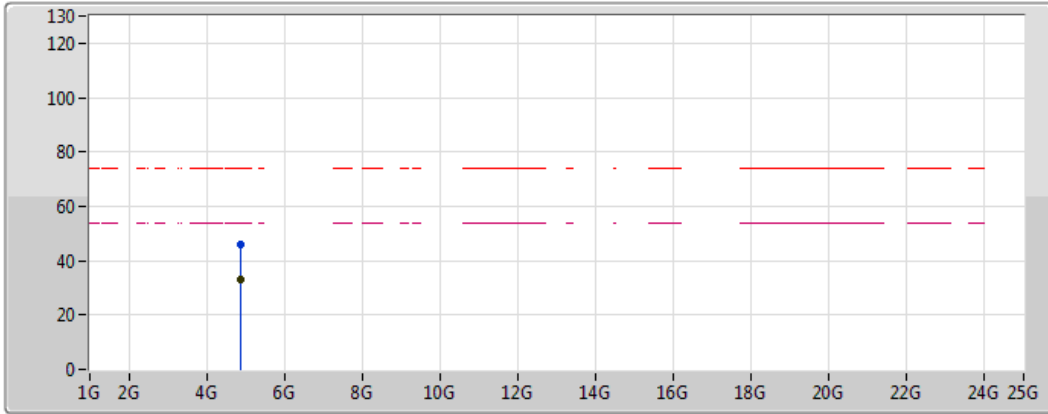
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.389G	56.23	74.00	-17.77	30.97	3	Horizontal	44	1.05	-
AV	2.3874G	44.01	54.00	-9.99	30.97	3	Horizontal	44	1.05	-
PK	2.437G	98.79	Inf	-Inf	31.04	3	Horizontal	44	1.05	-
AV	2.4362G	89.44	Inf	-Inf	31.03	3	Horizontal	44	1.05	-
PK	2.4862G	55.13	74.00	-18.87	31.18	3	Horizontal	44	1.05	-
AV	2.4838G	43.64	54.00	-10.36	31.17	3	Horizontal	44	1.05	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

07/09/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line)
- Lim.AV (Magenta dashed line)
- AV (Black line)

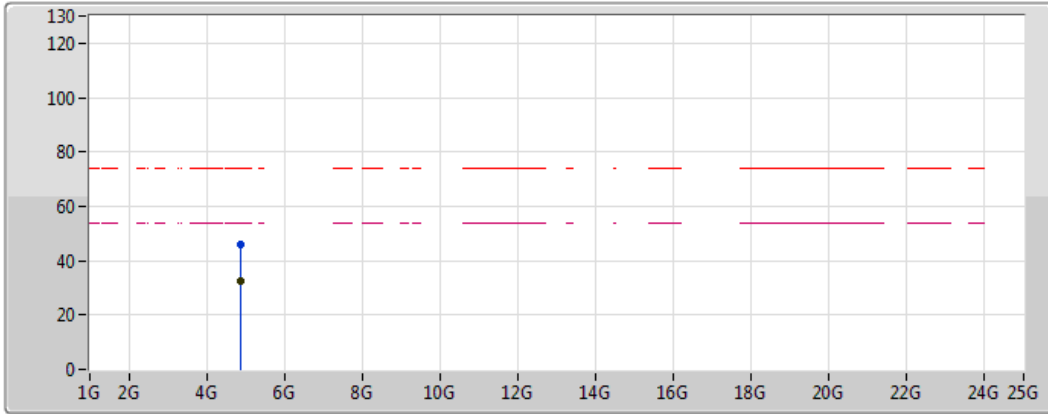
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.8741G	45.92	74.00	-28.08	4.20	3	Vertical	249	1.68	-
AV	4.8732G	32.84	54.00	-21.16	4.20	3	Vertical	249	1.68	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

07/09/2018



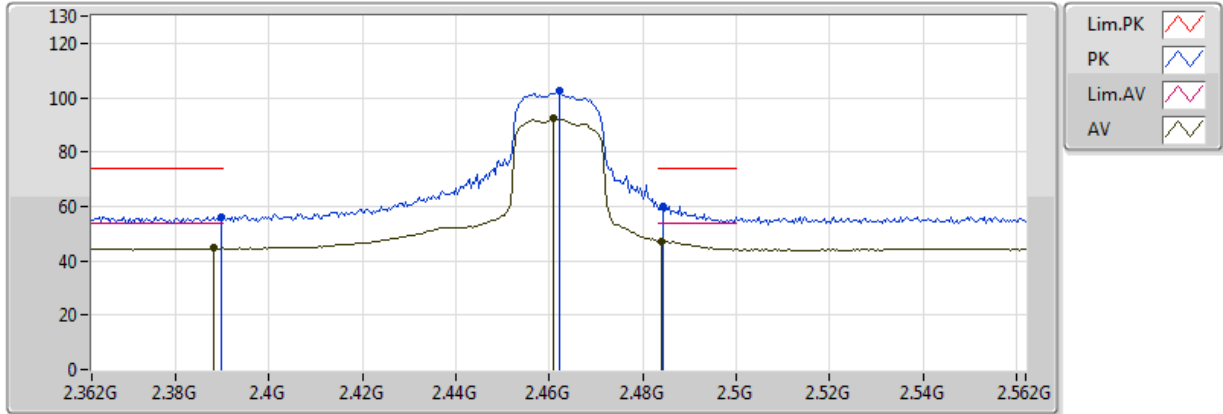
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.87558G	45.76	74.00	-28.24	4.21	3	Horizontal	112	2.79	-
AV	4.87586G	32.73	54.00	-21.27	4.21	3	Horizontal	112	2.79	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

07/09/2018



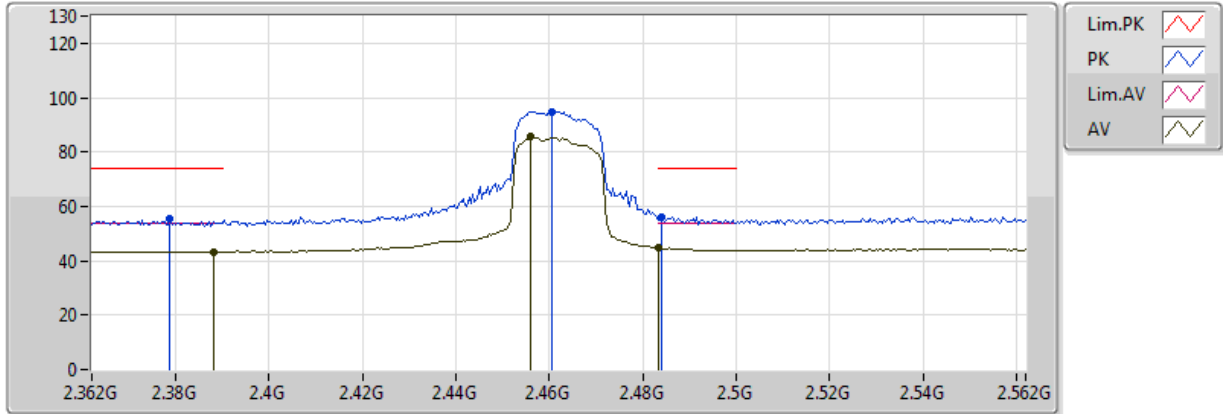
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3896G	56.22	74.00	-17.78	30.97	3	Vertical	333	1.04	-
AV	2.388G	44.58	54.00	-9.42	30.97	3	Vertical	333	1.04	-
PK	2.462G	102.43	Inf	-Inf	31.11	3	Vertical	333	1.04	-
AV	2.4608G	92.19	Inf	-Inf	31.11	3	Vertical	333	1.04	-
PK	2.4844G	60.08	74.00	-13.92	31.17	3	Vertical	333	1.04	-
AV	2.484G	47.23	54.00	-6.77	31.17	3	Vertical	333	1.04	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

07/09/2018



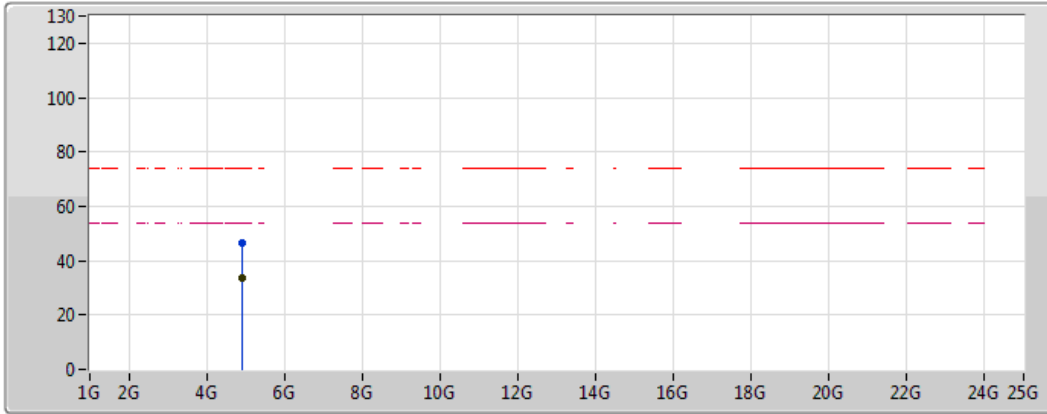
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3788G	55.48	74.00	-18.52	30.99	3	Horizontal	42	1.12	-
AV	2.388G	43.38	54.00	-10.62	30.97	3	Horizontal	42	1.12	-
PK	2.4604G	94.97	Inf	-Inf	31.11	3	Horizontal	42	1.12	-
AV	2.456G	85.56	Inf	-Inf	31.09	3	Horizontal	42	1.12	-
PK	2.484G	56.10	74.00	-17.90	31.17	3	Horizontal	42	1.12	-
AV	2.483502G	44.61	54.00	-9.39	31.17	3	Horizontal	42	1.12	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

07/09/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line)
- Lim.AV (Magenta dashed line)
- AV (Black line)

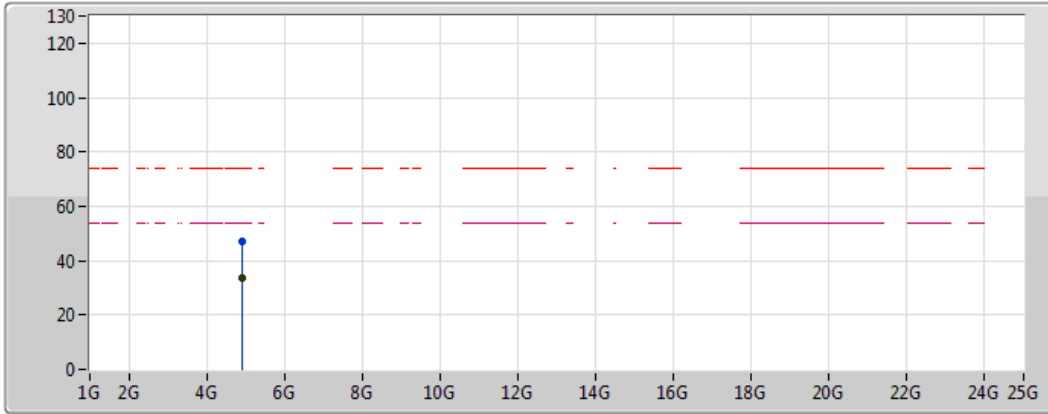
EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.92524G	46.73	74.00	-27.27	4.41	3	Vertical	274	2.36	-
AV	4.92394G	33.51	54.00	-20.49	4.40	3	Vertical	274	2.36	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

07/09/2018



Legend for the spectrum plot:

- Lim.PK: Red dashed line with a red zigzag icon
- PK: Blue solid line with a blue zigzag icon
- Lim.AV: Magenta dashed line with a magenta zigzag icon
- AV: Black solid line with a black zigzag icon

EUT Y_1TX
Setting 75
01-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.92644G	47.16	74.00	-26.84	4.41	3	Horizontal	142	1.96	-
AV	4.929G	33.53	54.00	-20.47	4.42	3	Horizontal	142	1.96	-