



FCC RADIO TEST REPORT

FCC ID : HEDML16035
Equipment : MetroLin Outdoor 60GHz PTP + 5GHz + 2.4GHz
Brand Name : Ignitenet
Model Name : ML1-60-35/ML1-60-19
Applicant : Accton Technology Corp
No. 1, Creation Rd. III, Science-based Industrial
Park Hsin Chu 30077, Taiwan
Manufacturer (1) : Joy Technology (Shen Zhen) Co. Ltd
HengKeng Ind., Shangpai, Shangwu, Aiqun Rd.,
Shiyan Town, Shenzhen 518108 China
Manufacturer (2) : Accton Technology Corp
No. 1, Creation Rd. III, Science-based Industrial
Park Hsin Chu 30077, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Apr. 12, 2018, and testing was started from May 02, 2018 and completed on Jun. 22, 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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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB Ver1.0

Page Number : 3 of 27
Issued Date : Jul. 02, 2018
Report Version : 01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.3	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: Wendy Pan**



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 1:

- ♦ 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.
- ♦ 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.

Note 2: This device contains transmitter 60GHz module FCC ID: HED-ML60MDSB

Note 3: WLAN and 60G work at the same time.

1.1.2 Table for Multiple Listing

The EUT has two model names which are identical to each other in all aspects except for the following table:

Brand Name	Model Name	EUT No.	WLAN 2.4GHz	WLAN 5GHz	60GHz
			Ant. Model Name	Ant. Model Name	Ant. Model Name
Ignitenet	ML1-60-35	EUT 1	OS-242509-NM	120G00000174X	123400001485A
	ML1-60-19	EUT 2	OS-242509-NM	120G00000175X	123400001486A

From the above models, model: ML1-60-35 was selected as representative model for the test and its data was recorded in this report.



1.1.3 Antenna Information

For WLAN Function:

Set	Brand	P/N (Model Name)	Antenna Type	Connector	Antenna Gain (dBi)		Cable Loss (dB)		True Gain (dBi)	
					2.4GHz	5GHz	2.4GHz	5GHz	2.4GHz	5GHz
1	FT-RF	OS-242509-NM	Dipole	N-Male	9	-	1.18	-	7.82	-
2	Accton	120G00000174X	Dish Ant.	MMCX	-	20	-	-	-	20
3	Accton	120G00000175X	Dish Ant.	MMCX	-	13.4	-	-	-	13.4

Note: EUT 1 go with Set 1 and Set 2 antennas.

EUT 2 go with Set 1 and Set 3 antennas.

Because 5GHz Set 2 and Set 3 are the same type antennas, only the higher gain antenna "Set 2" was tested.

For 2.4GHz function:**For IEEE 802.11b/g/n mode (2TX/2RX):**

Port 1 and Port 2 connect to Set 1.

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:**For IEEE 802.11a/n/ac mode (2TX/2RX):**

Port 1 and Port 2 connect to Set 2 or Set 3.

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 60GHz Function:

Ant.	Brand	Part Number	Antenna Type	Connector	Gain (dBi)
1	Accton	123400001485A	Dish Ant.	N/A	42
2	Accton	123400001486A	Dish Ant.	N/A	38

Note: EUT 1 go with antenna 1.

EUT 2 go with antenna 2.

Ant.1 and Ant.2 can be used as transmitting/receiving antenna.

**1.1.4 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.995	0.022	n/a (DC \geq 0.98)	n/a (DC \geq 0.98)
802.11g	0.964	0.159	2.07m	1k
802.11n HT20	0.984	0.07	n/a (DC \geq 0.98)	n/a (DC \geq 0.98)
802.11n HT40	0.967	0.146	2.43m	1k

1.1.5 EUT Operational Condition

EUT Power Type	From PoE or DC 48V			
Beamforming Function	<input type="checkbox"/>	With beamforming	<input checked="" type="checkbox"/>	Without beamforming
Function	<input type="checkbox"/>	Point-to-multipoint	<input checked="" type="checkbox"/>	Point-to-point
Test Software Version	QCARCT(V3.0.187.0)			



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 v04
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01

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	22°C / 54%	May 05, 2018 ~ May 09, 2018
Radiated	03CH01-CB	Mason Chen, Stim Sung, Lance Wu	22°C / 54%	May 04, 2018 ~ Jun. 20, 2018
AC Conduction	CO01-CB	Max Lin	25°C / 55%	May 02, 2018 ~ Jun. 22, 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)_2TX	-
2412MHz	16
2437MHz	14
2462MHz	15
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	15.5
2417MHz	18.5
2422MHz	19.5
2427MHz	21
2432MHz	22
2437MHz	23
2442MHz	21.5
2447MHz	20.5
2452MHz	18.5
2457MHz	18
2462MHz	15
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	17
2417MHz	18
2422MHz	19.5
2427MHz	20.5
2432MHz	22.5
2437MHz	23
2442MHz	21.5
2447MHz	20.5
2452MHz	20
2457MHz	18.5
2462MHz	14.5
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	13
2427MHz	14.5
2432MHz	14.5
2437MHz	15.5
2442MHz	15
2447MHz	13.5
2452MHz	12



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	CTX
1	EUT 1 WLAN 2.4GHz - AC mode
2	EUT 1 - WLAN 5GHz - AC mode
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT 1 - WLAN 2.4GHz - DC mode
For operating mode 1 is the worst case and it was record in this test report.	

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
Test Mode	EUT 1

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	EUT 1 - WLAN 2.4GHz - AC mode
2	EUT 1 - WLAN 5GHz - AC mode
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT 1 - WLAN 2.4GHz - DC mode
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	EUT 1 - CTX



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT 1 - WLAN 2.4GHz + WLAN 5GHz + 60GHz
Refer to Sporton Test Report No.: FA7D2234-05 for Co-location RF Exposure Evaluation.	

Note: 1. The EUT can only be used at Y axis position.

2. The defines from manufacturer, "USB port" without any function, and it was performed test at the load.

3. All the specification of test configurations and test modes were based on customer's request.

4. The PoE is for measurement only, would not be marketed, and its information as below:

Equipment	Brand	Model	FCC ID
PoE	GME	GME241DA-480050G	N/A

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

N/A

2.5 Support Equipment

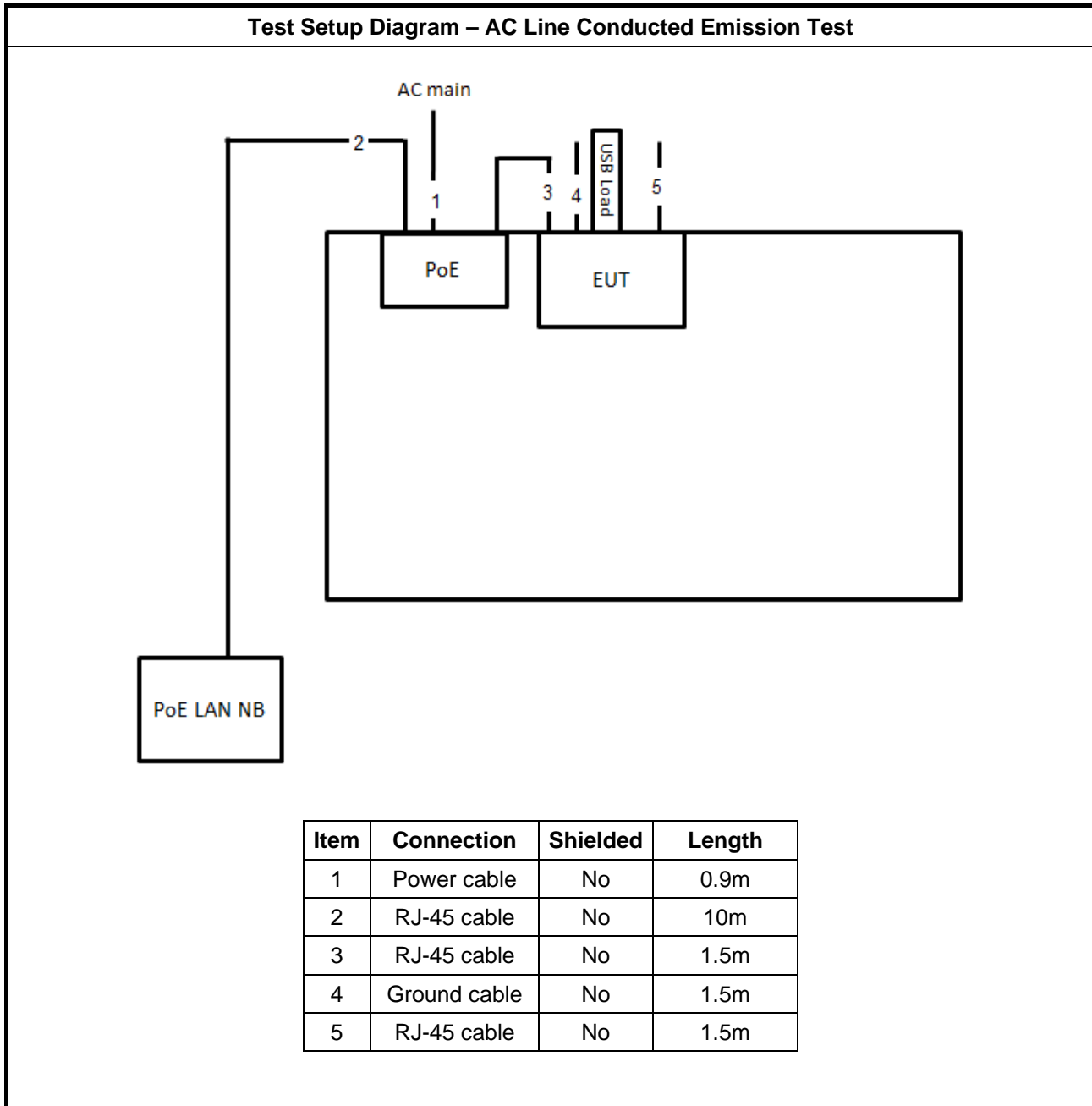
For Test Site No: CO01-CB

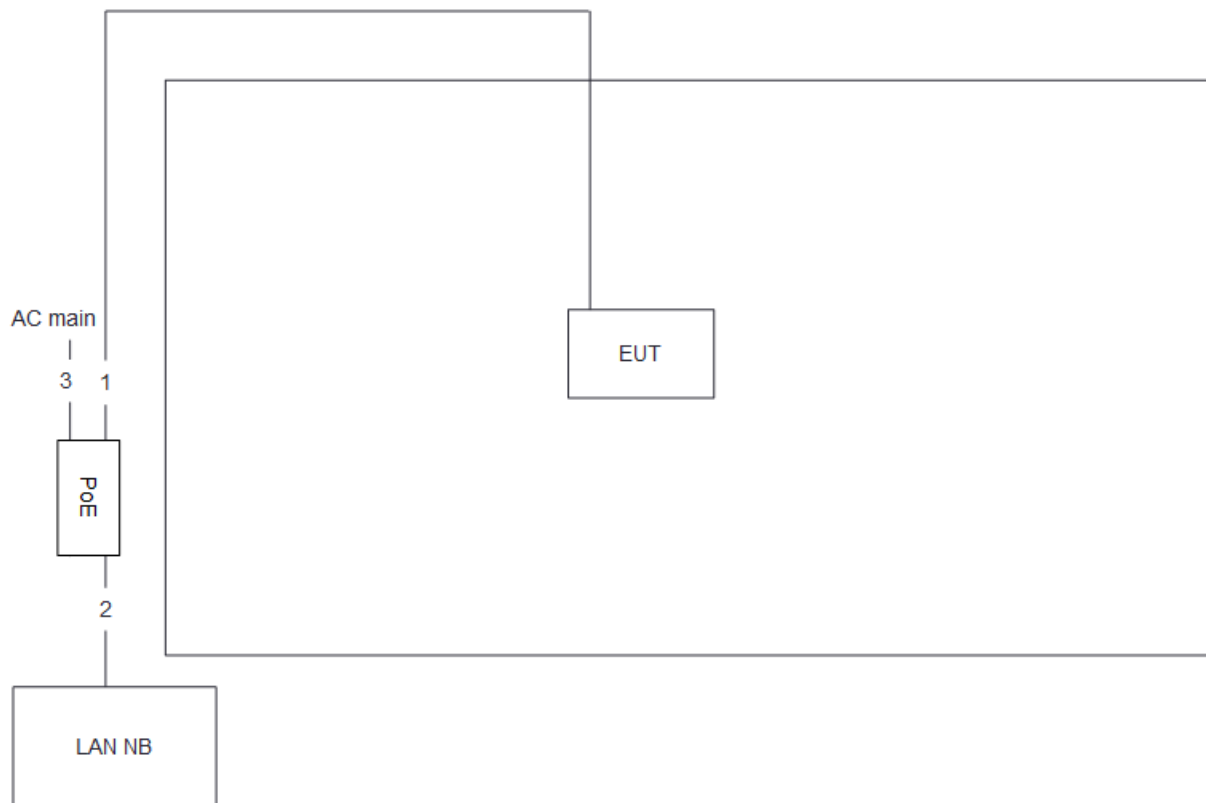
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E6430	N/A
2	Flash Disk 3.0	Transcend	JetFlash-700	N/A
3	PoE	GME	GME241DA-480050G	N/A

For Test Site No: TH01-CB and 03CH01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	N/A
2	PoE	GME	GME241DA-480050G	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	Power cable	No	0.9m



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.

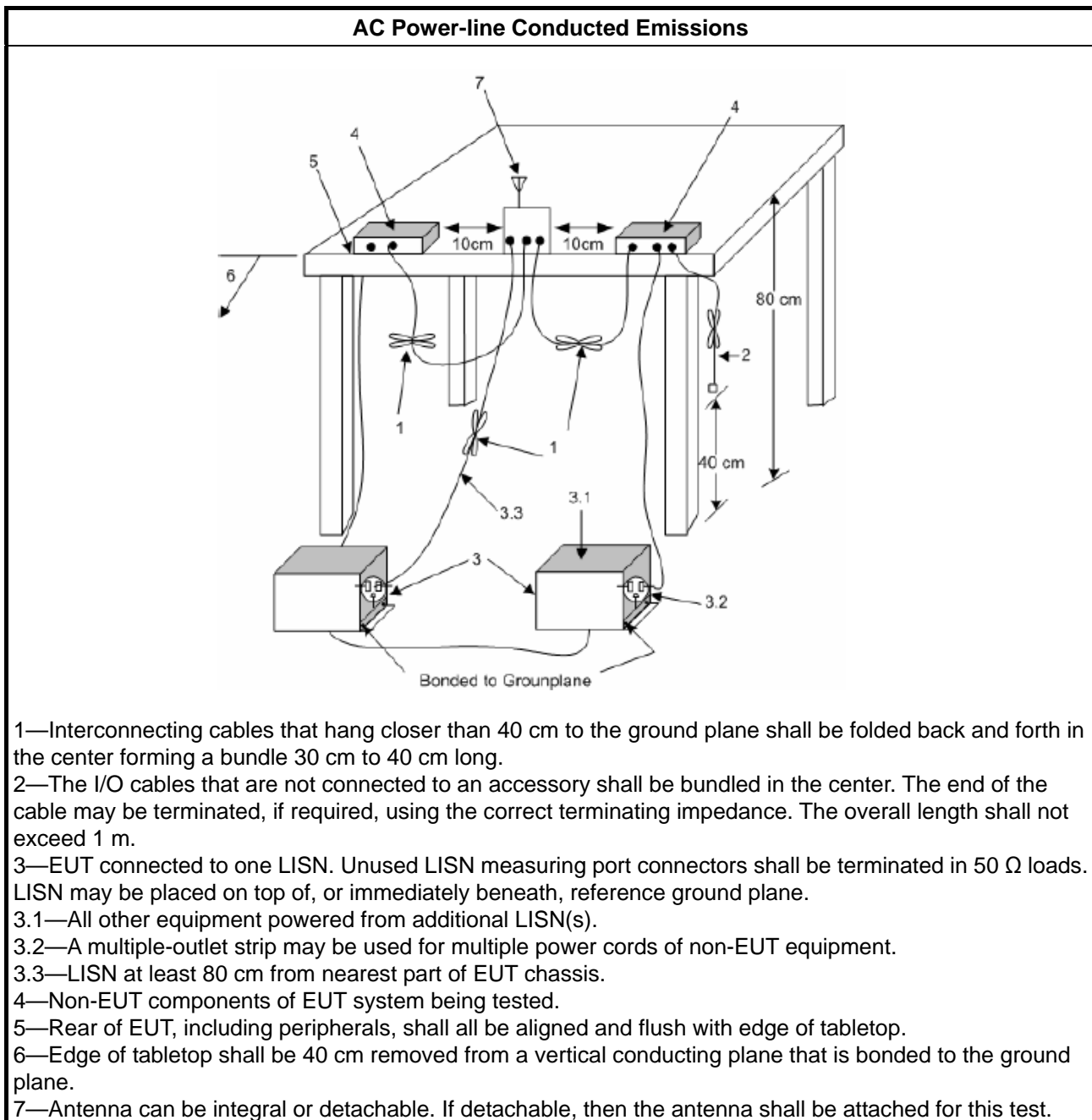
3.1.2 Measuring Instruments

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:	
▪	6 dB bandwidth \geq 500 kHz.

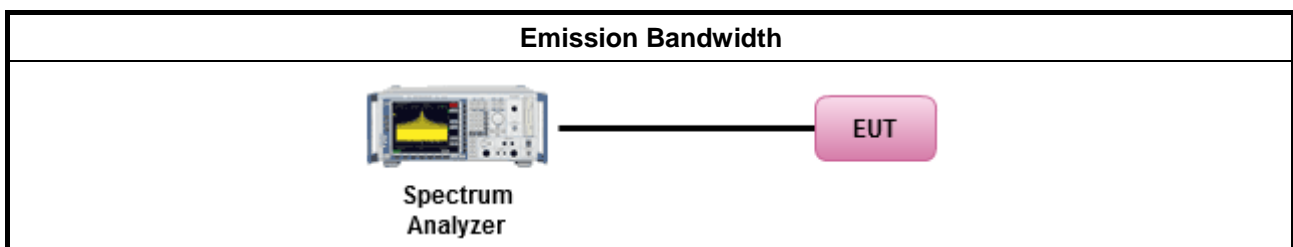
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 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	
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	▪ Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

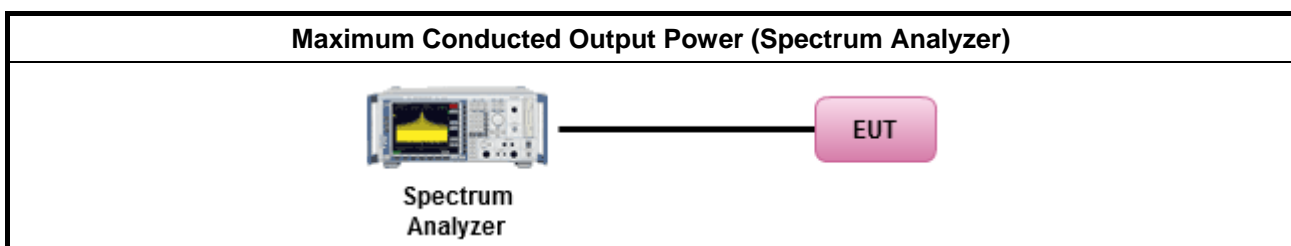
3.3.2 Measuring Instruments

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 9.1.1 Option 1 (RBW ≥ EBW method).
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 9.1.3 (peak power meter for VBW ≥ DTS BW)
<ul style="list-style-type: none"> Maximum Conducted Output Power 	
[duty cycle ≥ 98% or external video / power trigger]	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
Measurement using a power meter (PM)	
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM (using an RF average power meter).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.3.2 Method AVGPM-G (using an gate 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 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. 	
<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) ≤ 8 dBm/3kHz

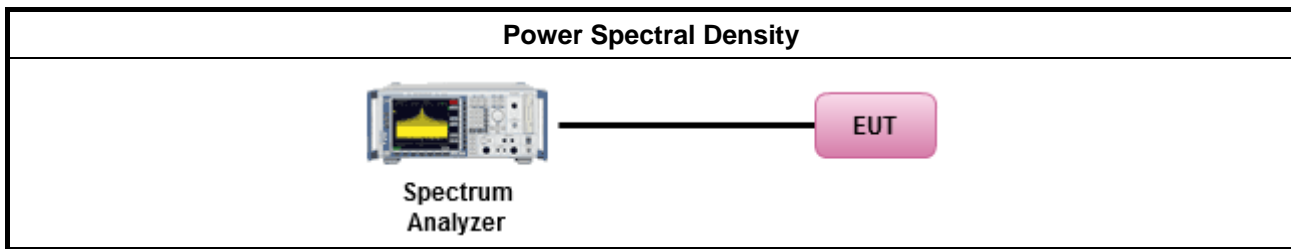
3.4.2 Measuring Instruments

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 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak).
[duty cycle $\geq 98\%$ or external video / power trigger]	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 10.3 Method AVGPS-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 10.4 Method AVGPS-2 (slow sweep speed)
duty cycle $< 98\%$ and average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 10.5 Method AVGPS-1 Alt (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 10.6 Method AVGPS-2 Alt. (slow sweep speed)
<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,
<input type="checkbox"/>	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
<p>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.</p> <p>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.</p>	

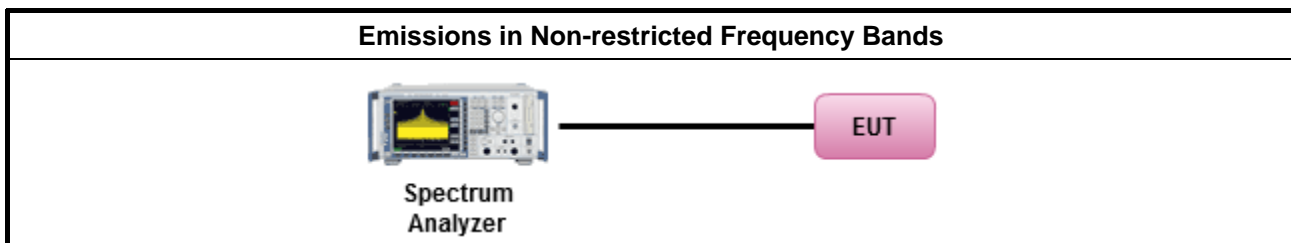
3.5.2 Measuring Instruments

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 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

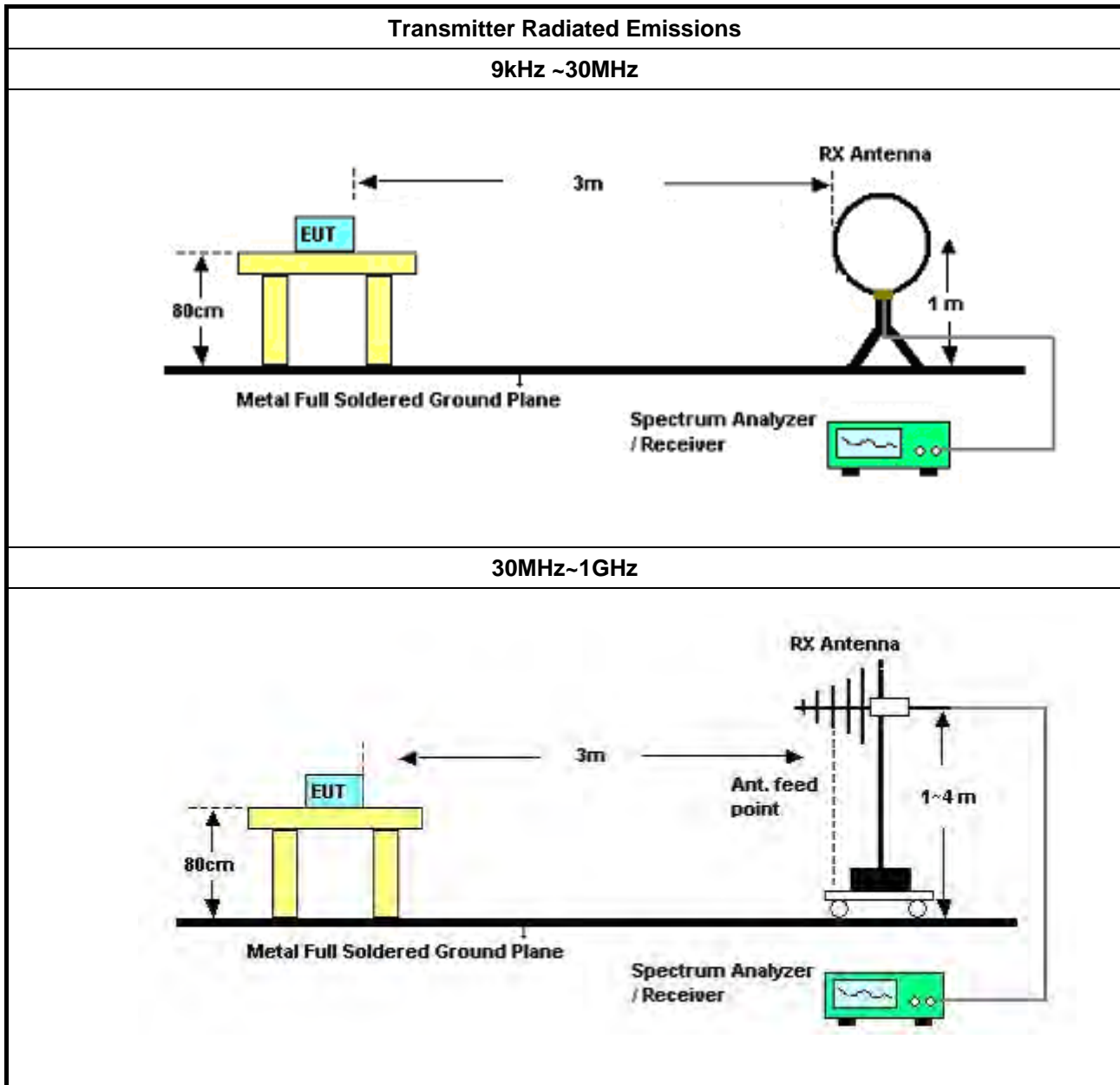
Refer a test equipment and calibration data table in this test report.

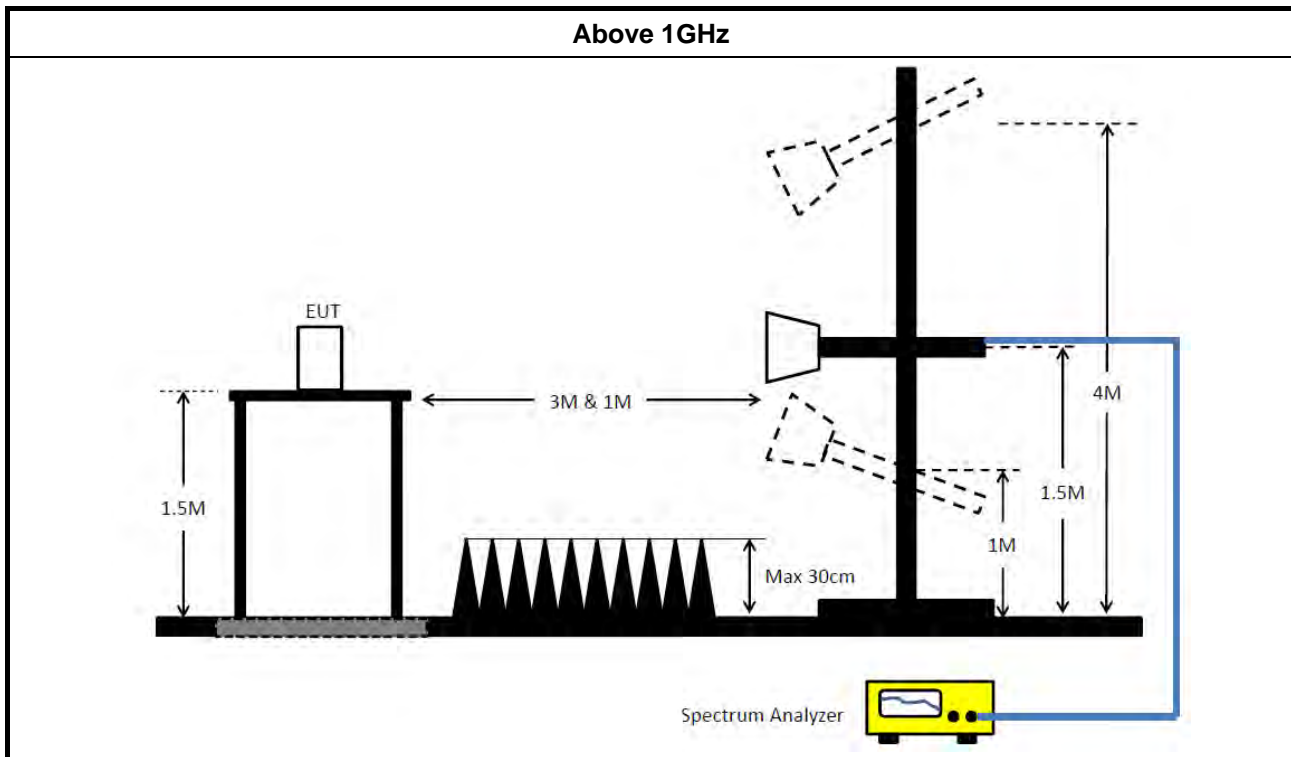


3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle ≥ 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 12 for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$)
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq 1/T$).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$, 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 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 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 13.2 (ANSI C63.10, clause 6.9.3) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> Refer as FCC 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 FCC 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 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

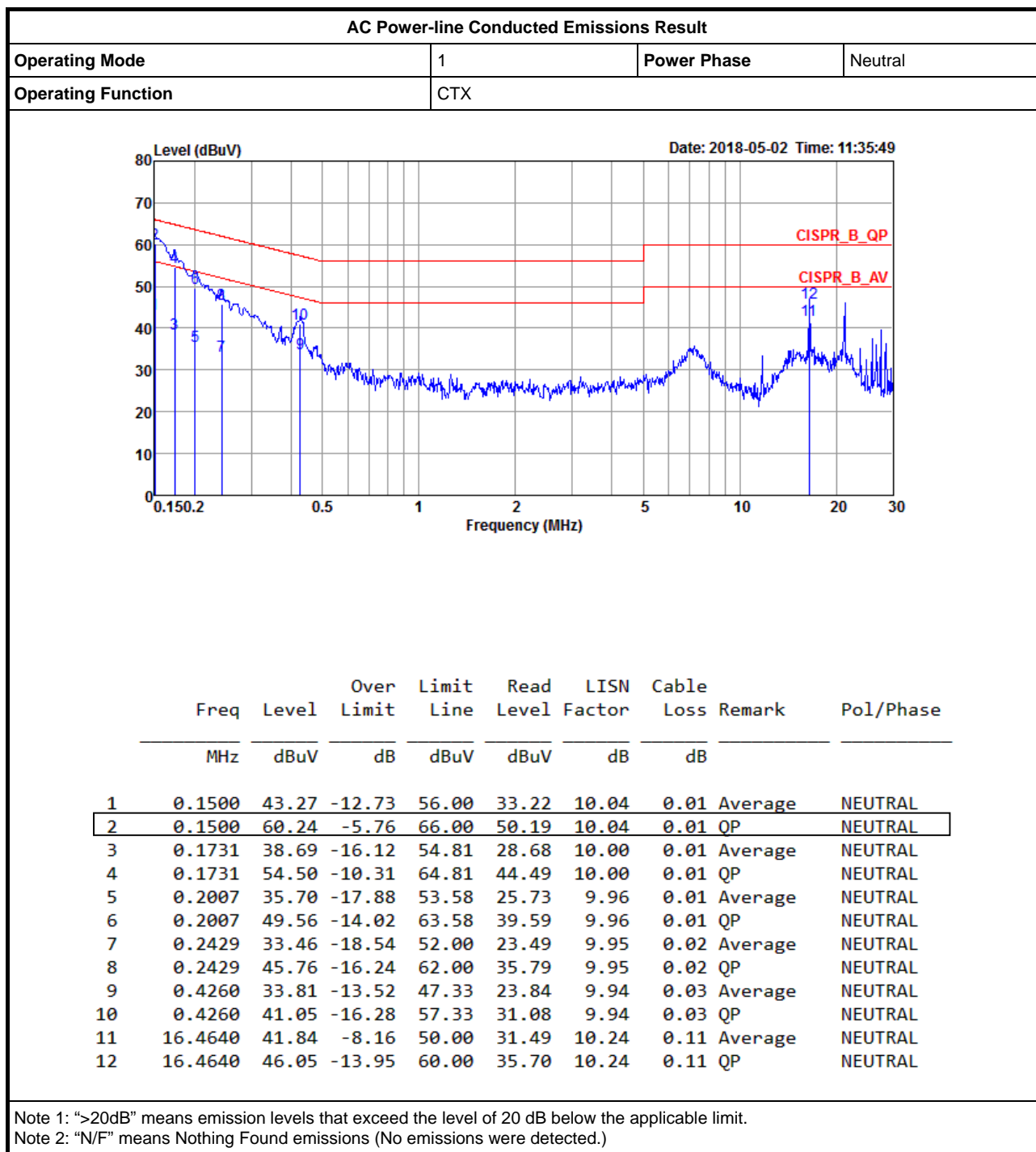
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 31, 2018	Jan. 30, 2019	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 20, 2017	Dec. 19, 2018	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 29, 2017	Dec. 28, 2018	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 23, 2017	May 22, 2018	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2017	Aug. 29, 2018	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2018	Mar. 15, 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	Jul. 05, 2017	Jul. 04, 2018	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-H G	1864479	18GHz ~ 40GHz	Jul. 10, 2017	Jul. 09, 2018	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	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)

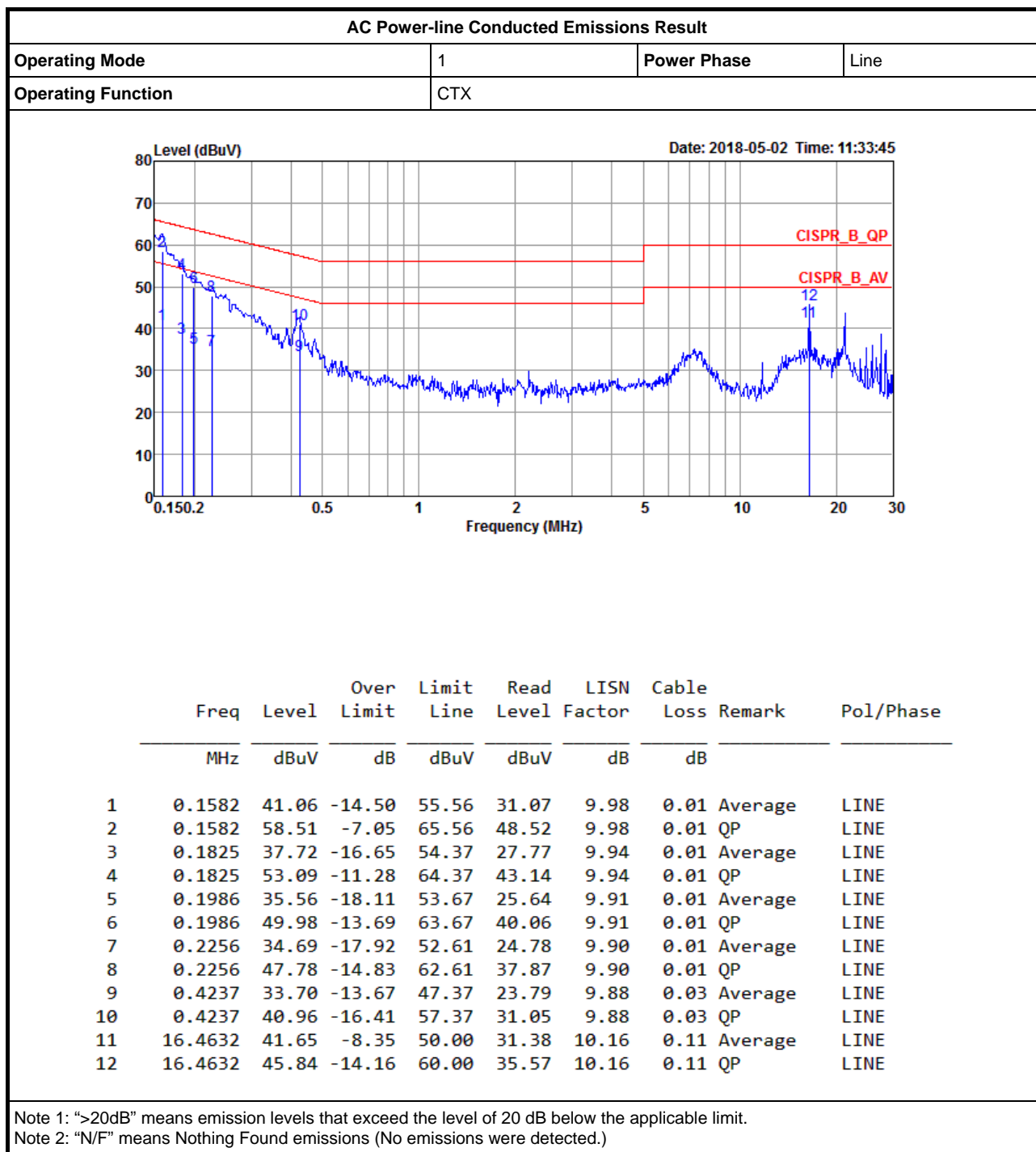


Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 21, 2017	Dec. 20, 2018	Conducted (TH01-CB)
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)
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.





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	8.075M	12.869M	12M9G1D	7.55M	12.744M
802.11g_Nss1,(6Mbps)_2TX	16.35M	16.617M	16M6D1D	16.325M	16.467M
802.11n HT20_Nss1,(MCS0)_2TX	17.6M	17.891M	17M9D1D	17.325M	17.691M
802.11n HT40_Nss1,(MCS0)_2TX	36.3M	36.382M	36M4D1D	35.6M	36.232M

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;

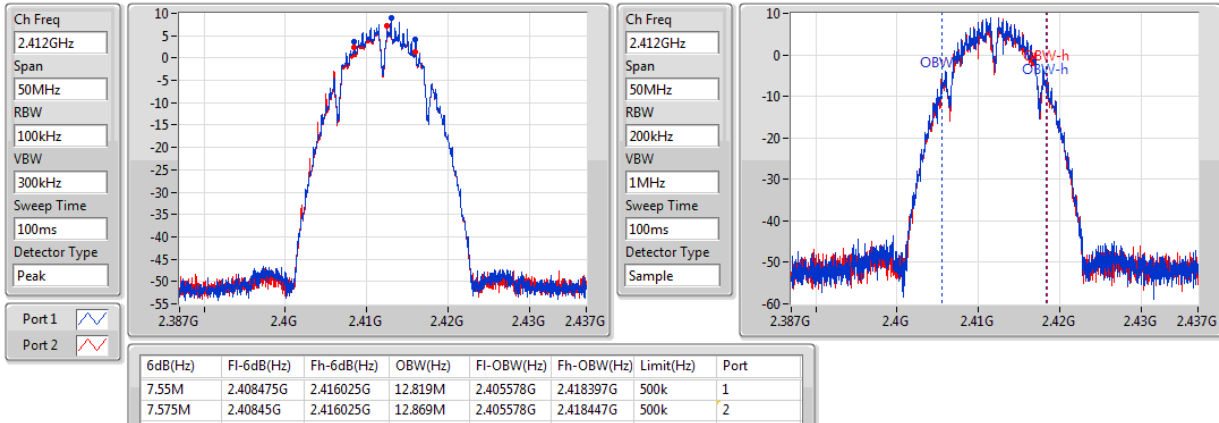
Result

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	Pass	500k	7.55M	12.819M	7.575M	12.869M
2437MHz	Pass	500k	7.55M	12.744M	7.575M	12.819M
2462MHz	Pass	500k	7.575M	12.844M	8.075M	12.819M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.567M	16.35M	16.517M
2437MHz	Pass	500k	16.325M	16.592M	16.35M	16.617M
2462MHz	Pass	500k	16.35M	16.542M	16.325M	16.467M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.55M	17.716M	17.6M	17.741M
2437MHz	Pass	500k	17.575M	17.866M	17.325M	17.891M
2462MHz	Pass	500k	17.575M	17.691M	17.6M	17.766M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	36.3M	36.232M	36.3M	36.382M
2437MHz	Pass	500k	36.3M	36.282M	36.3M	36.282M
2452MHz	Pass	500k	35.6M	36.232M	35.9M	36.282M

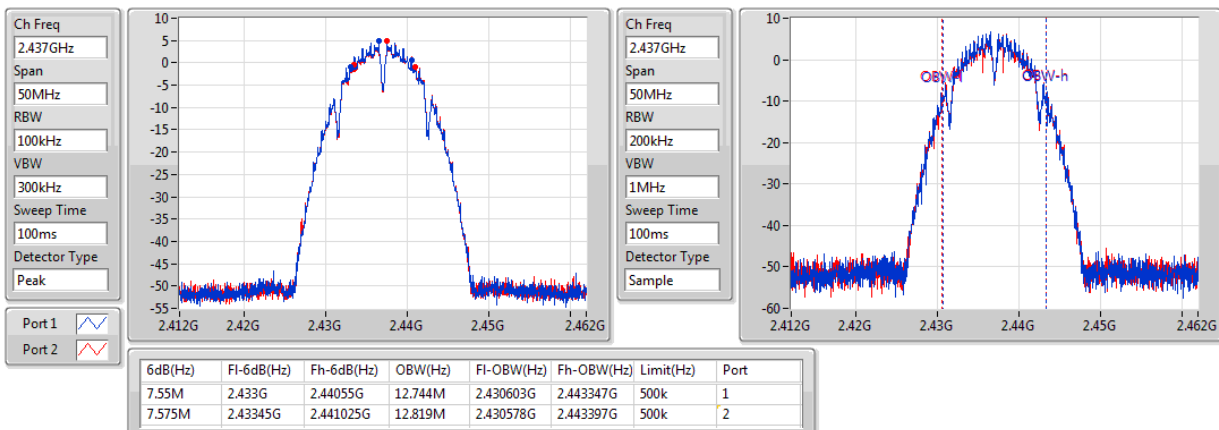
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

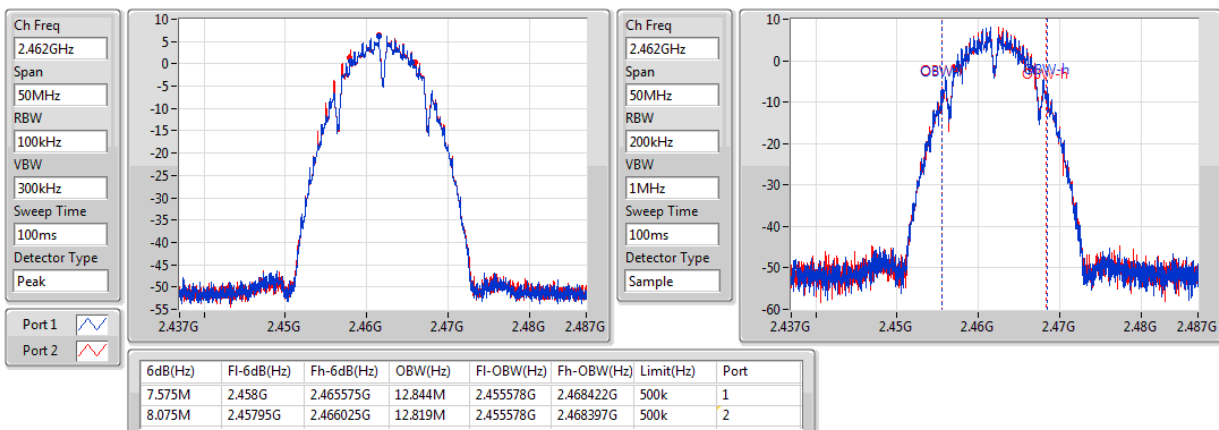
09/05/2018


802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

09/05/2018

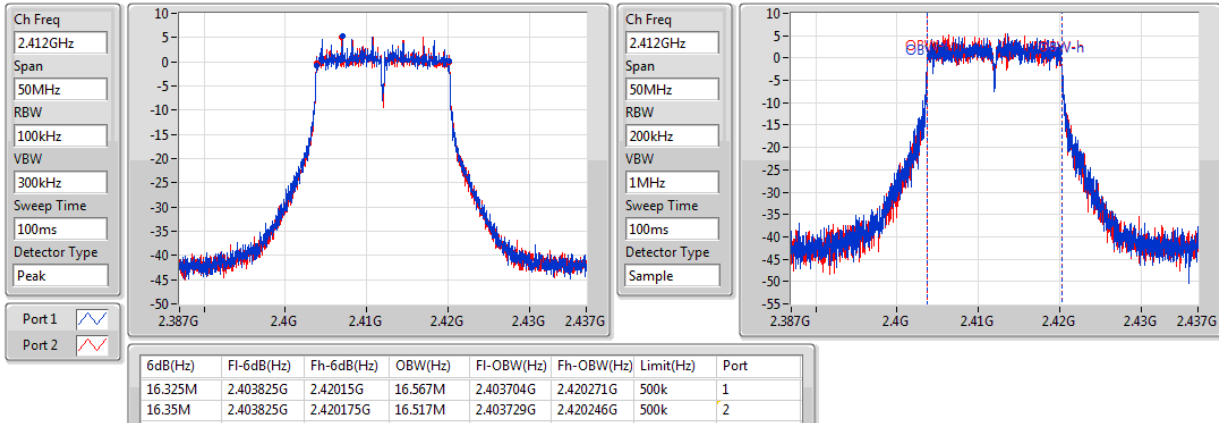

802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

09/05/2018

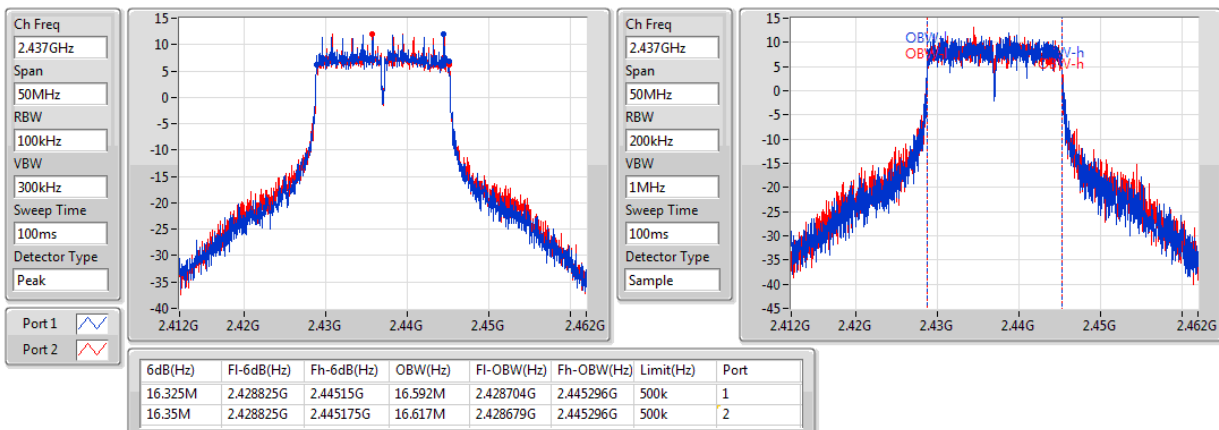


802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

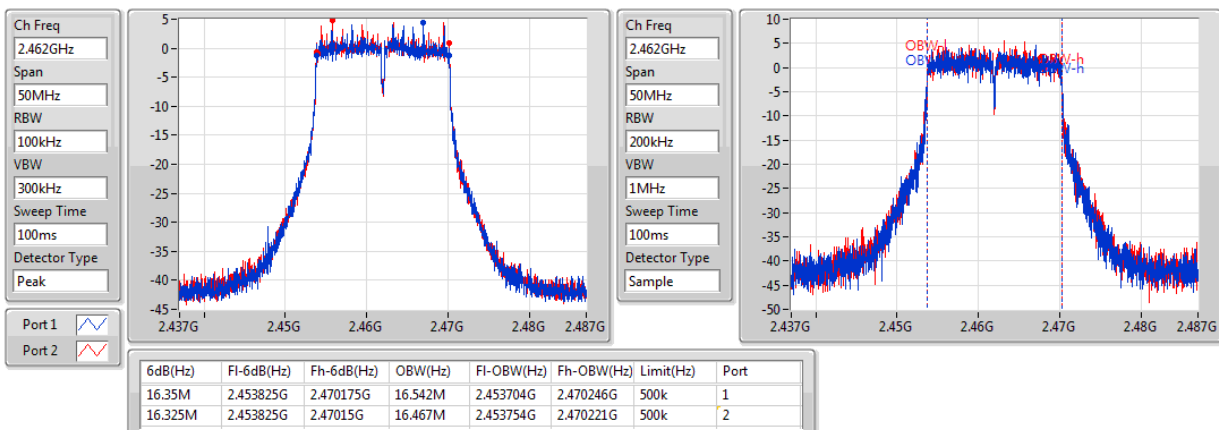
09/05/2018


802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

09/05/2018

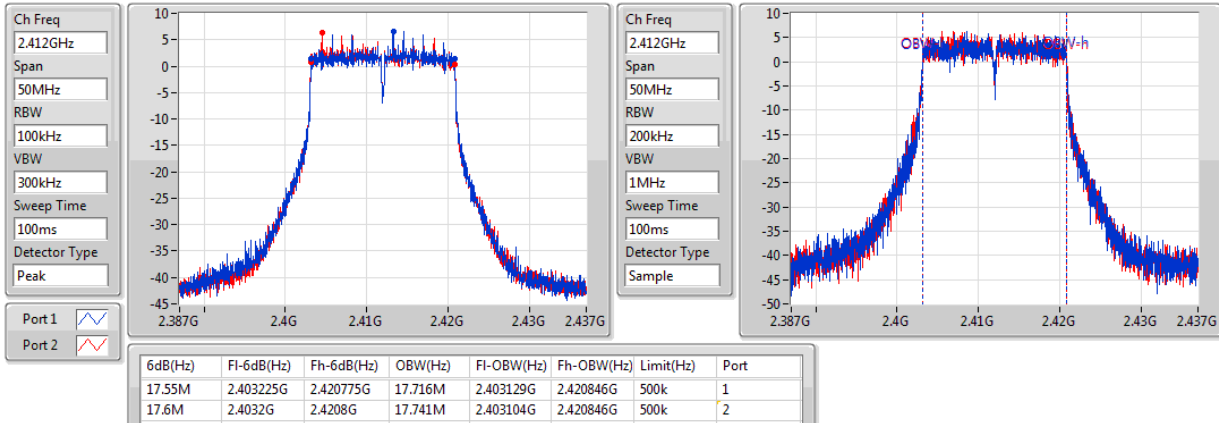

802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

09/05/2018

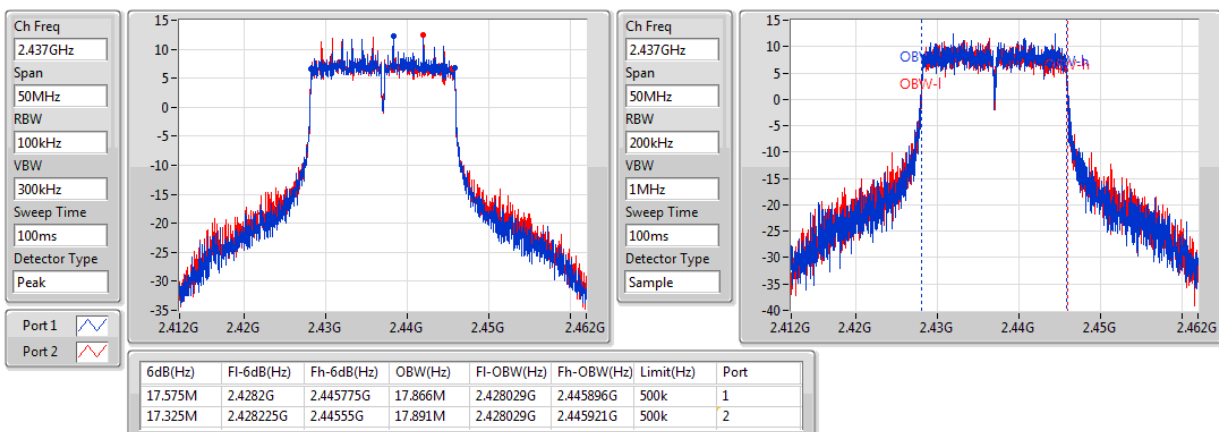


802.11n HT20_Nss1,(MCS0)_2TX
EBW
2412MHz

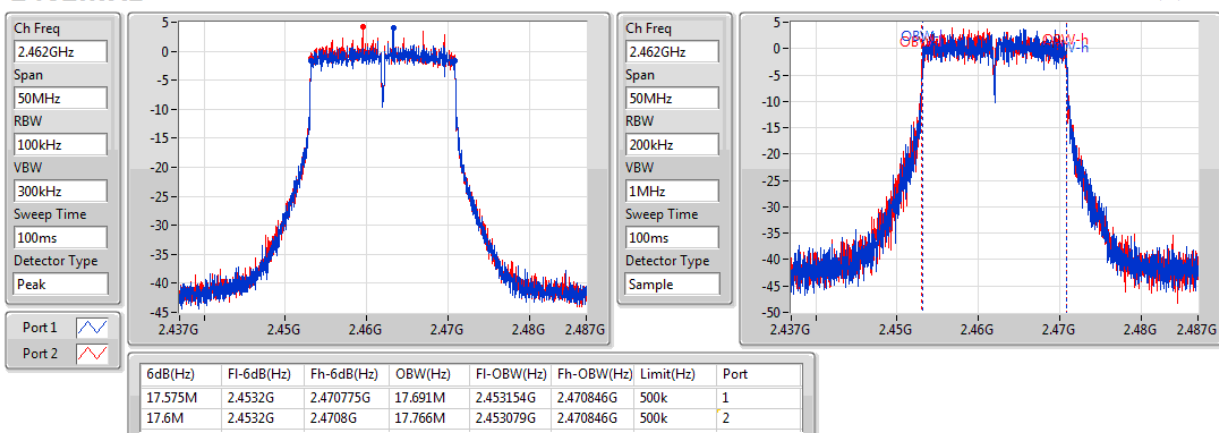
09/05/2018


802.11n HT20_Nss1,(MCS0)_2TX
EBW
2437MHz

09/05/2018

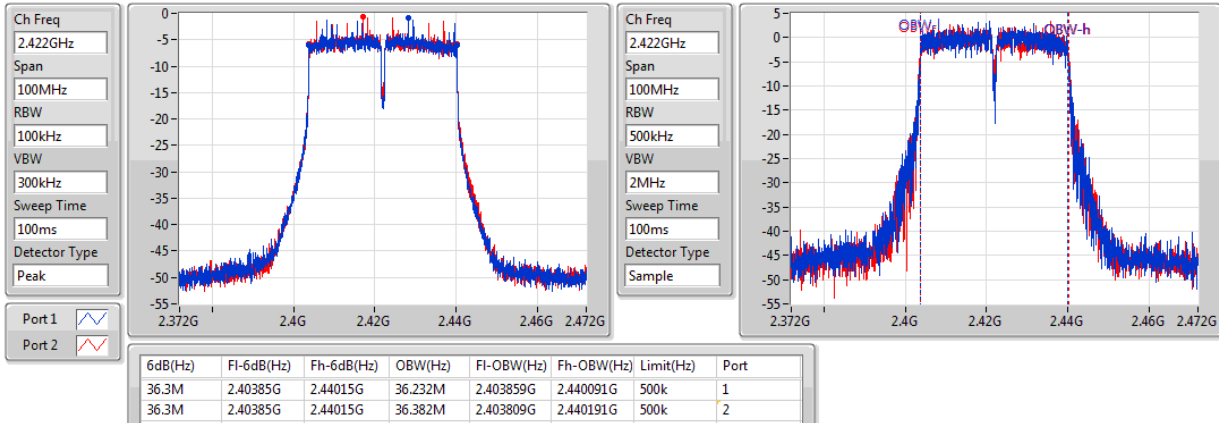

802.11n HT20_Nss1,(MCS0)_2TX
EBW
2462MHz

09/05/2018

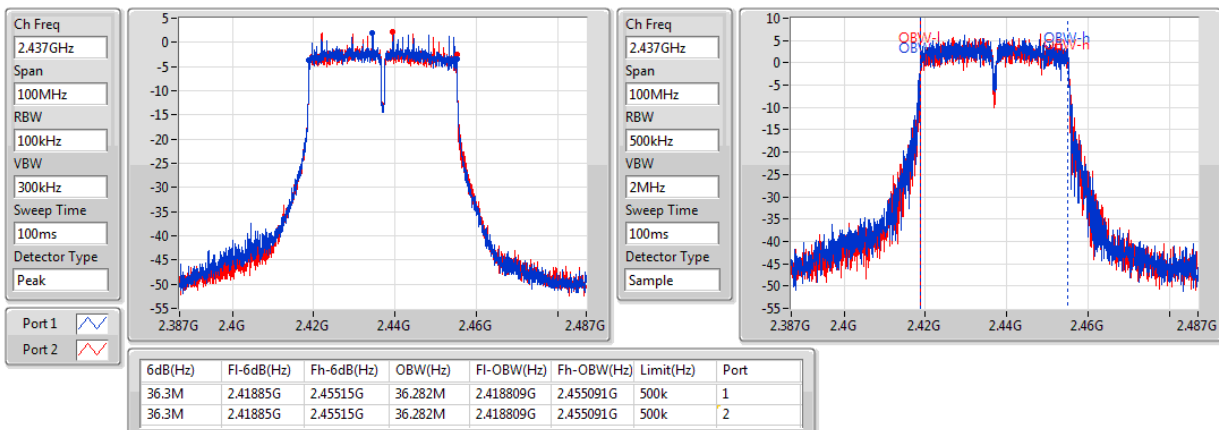


802.11n HT40_Nss1,(MCS0)_2TX
EBW
2422MHz

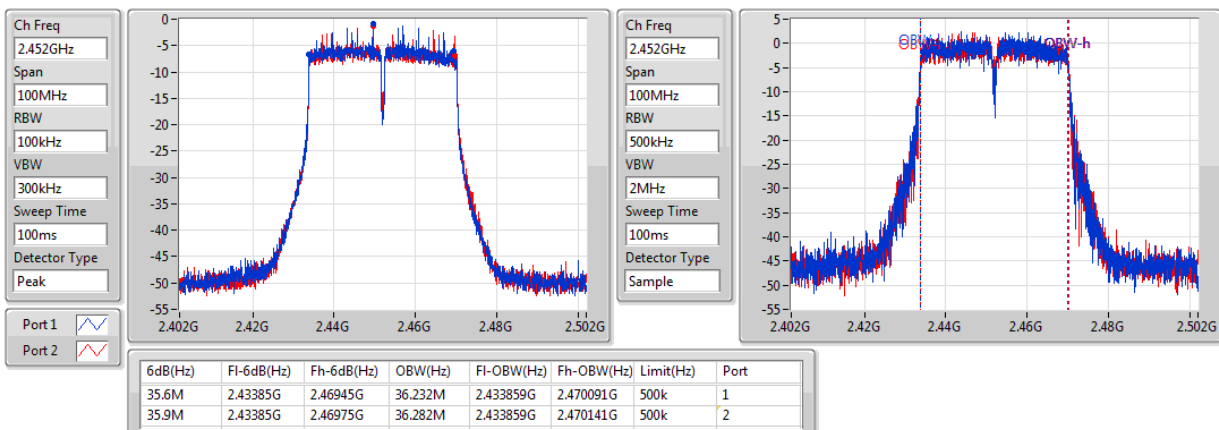
09/05/2018


802.11n HT40_Nss1,(MCS0)_2TX
EBW
2437MHz

09/05/2018


802.11n HT40_Nss1,(MCS0)_2TX
EBW
2452MHz

09/05/2018



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	20.17	0.10399
802.11g_Nss1,(6Mbps)_2TX	26.71	0.46881
802.11n HT20_Nss1,(MCS0)_2TX	26.87	0.48641
802.11n HT40_Nss1,(MCS0)_2TX	20.27	0.10641

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.82	17.23	17.09	20.17	30.00
2437MHz	Pass	7.82	14.90	14.78	17.85	30.00
2462MHz	Pass	7.82	16.06	16.24	19.16	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.82	17.17	17.04	20.12	30.00
2417MHz	Pass	7.82	20.04	20.26	23.16	30.00
2422MHz	Pass	7.82	20.99	21.11	24.06	30.00
2427MHz	Pass	7.82	22.33	22.34	25.35	30.00
2432MHz	Pass	7.82	23.19	23.14	26.18	30.00
2437MHz	Pass	7.82	23.72	23.67	26.71	30.00
2442MHz	Pass	7.82	22.61	22.85	25.74	30.00
2447MHz	Pass	7.82	21.80	21.93	24.88	30.00
2452MHz	Pass	7.82	19.93	20.09	23.02	30.00
2457MHz	Pass	7.82	19.38	19.57	22.49	30.00
2462MHz	Pass	7.82	16.48	16.71	19.61	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.82	18.59	18.74	21.68	30.00
2417MHz	Pass	7.82	19.54	19.76	22.66	30.00
2422MHz	Pass	7.82	21.01	21.20	24.12	30.00
2427MHz	Pass	7.82	21.85	21.99	24.93	30.00
2432MHz	Pass	7.82	23.46	23.47	26.48	30.00
2437MHz	Pass	7.82	23.86	23.85	26.87	30.00
2442MHz	Pass	7.82	22.66	22.87	25.78	30.00
2447MHz	Pass	7.82	21.73	21.87	24.81	30.00
2452MHz	Pass	7.82	21.34	21.53	24.45	30.00
2457MHz	Pass	7.82	19.84	19.65	22.76	30.00
2462MHz	Pass	7.82	16.20	16.35	19.29	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	7.82	14.41	14.36	17.40	30.00
2427MHz	Pass	7.82	15.99	15.95	18.98	30.00
2432MHz	Pass	7.82	15.79	15.62	18.72	30.00
2437MHz	Pass	7.82	17.32	17.19	20.27	30.00
2442MHz	Pass	7.82	16.72	16.69	19.72	30.00
2447MHz	Pass	7.82	14.49	14.44	17.48	30.00
2452MHz	Pass	7.82	13.00	12.93	15.98	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-6.88
802.11g_Nss1,(6Mbps)_2TX	-2.62
802.11n HT20_Nss1,(MCS0)_2TX	-2.68
802.11n HT40_Nss1,(MCS0)_2TX	-11.01

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	10.83	-8.30	-8.92	-6.88	7.00
2437MHz	Pass	10.83	-11.00	-12.54	-9.81	7.00
2462MHz	Pass	10.83	-11.45	-7.82	-7.57	7.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	10.83	-11.61	-11.92	-9.63	7.00
2437MHz	Pass	10.83	-4.58	-4.89	-2.62	7.00
2462MHz	Pass	10.83	-11.51	-12.20	-9.80	7.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	10.83	-9.68	-10.35	-7.92	7.00
2437MHz	Pass	10.83	-3.69	-4.97	-2.68	7.00
2462MHz	Pass	10.83	-12.05	-12.03	-10.16	7.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	10.83	-17.18	-16.44	-14.67	7.00
2437MHz	Pass	10.83	-13.47	-14.08	-11.01	7.00
2452MHz	Pass	10.83	-17.13	-16.43	-14.83	7.00

DG = Directional Gain; RBW=3kHz;

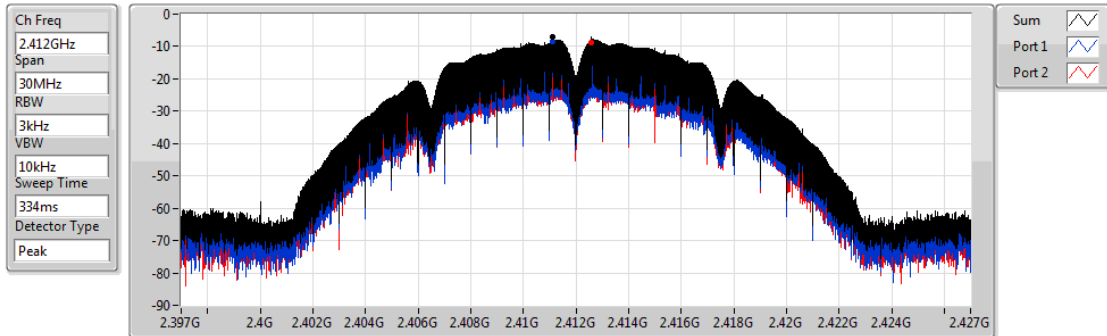
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

09/05/2018

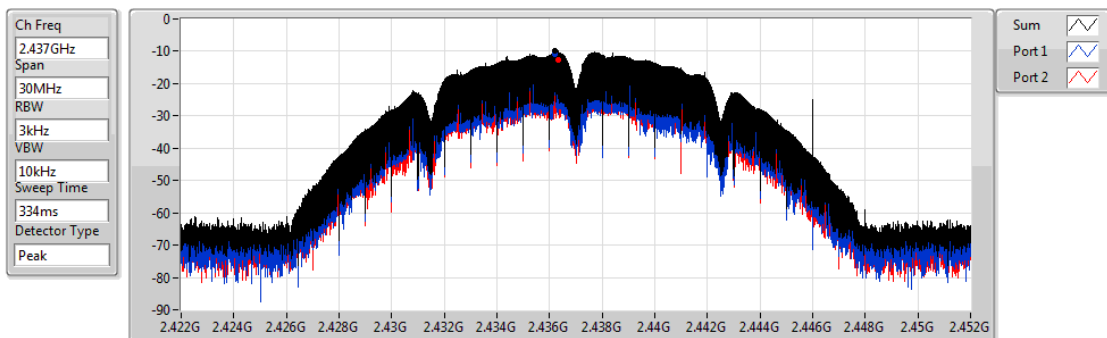


802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

09/05/2018

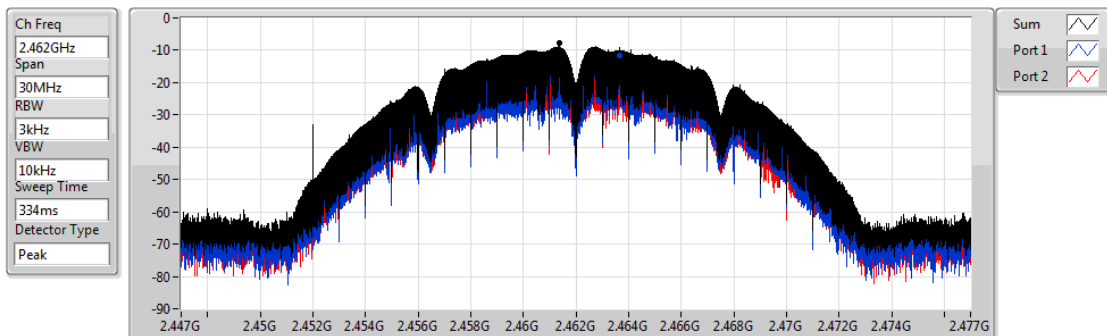


802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

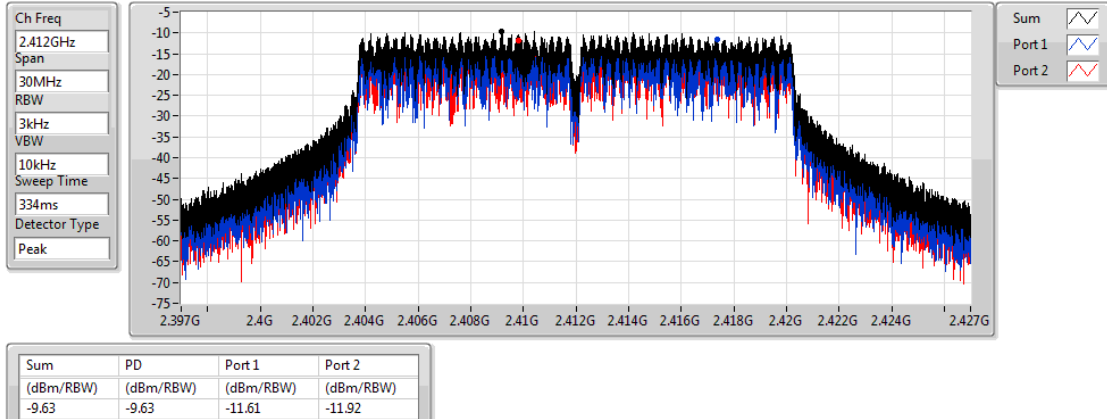
09/05/2018



802.11g_Nss1,(6Mbps)_2TX

2412MHz

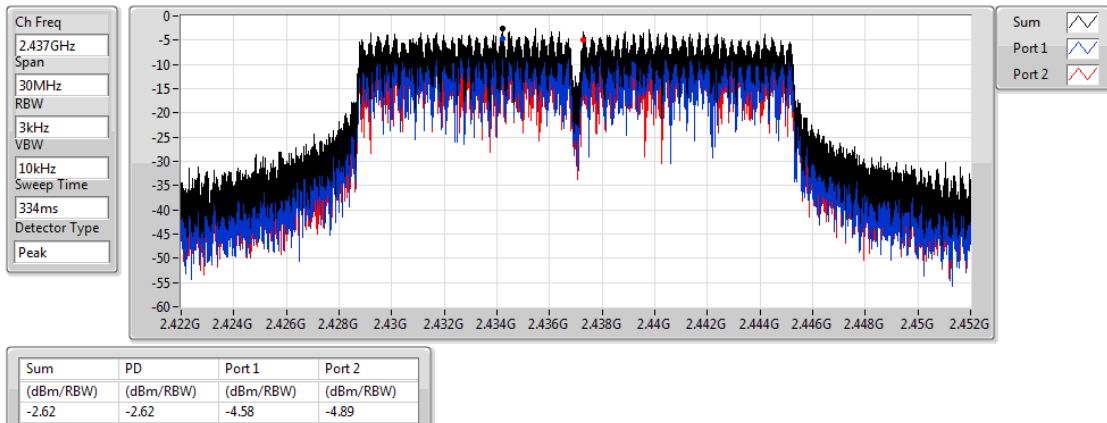
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802.11g_Nss1,(6Mbps)_2TX

2437MHz

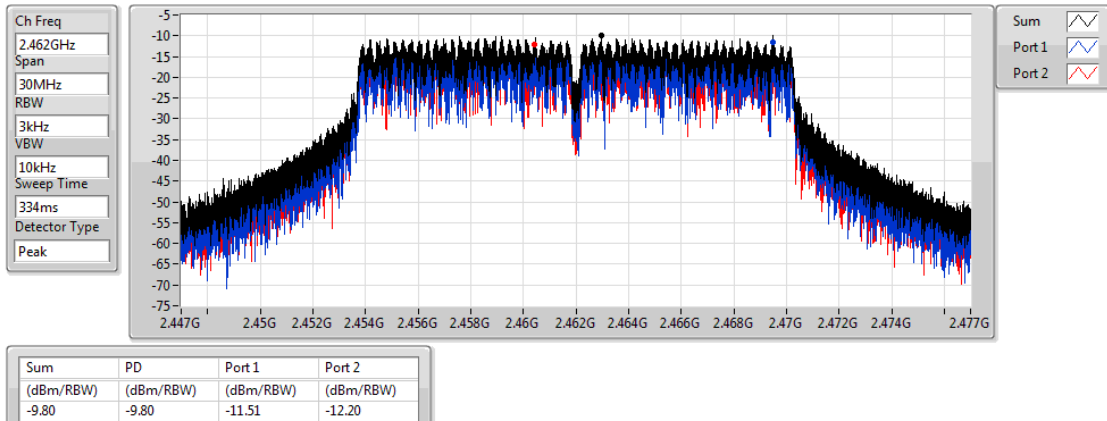
09/05/2018



802.11g_Nss1,(6Mbps)_2TX

2462MHz

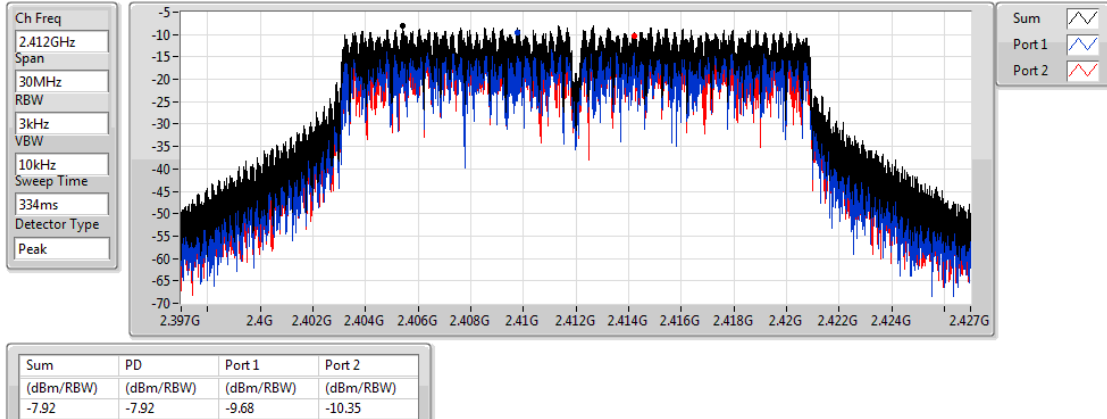
09/05/2018



802.11n HT20_Nss1,(MCS0)_2TX

2412MHz

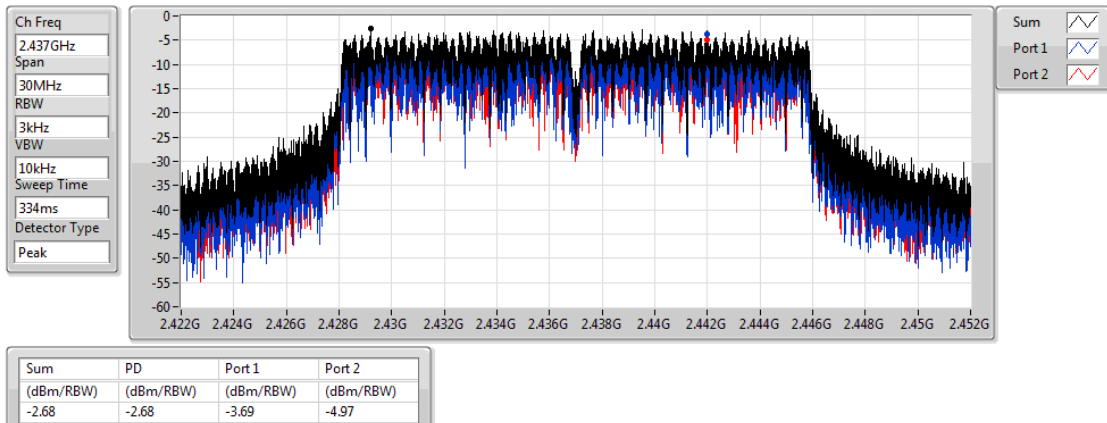
09/05/2018



802.11n HT20_Nss1,(MCS0)_2TX

2437MHz

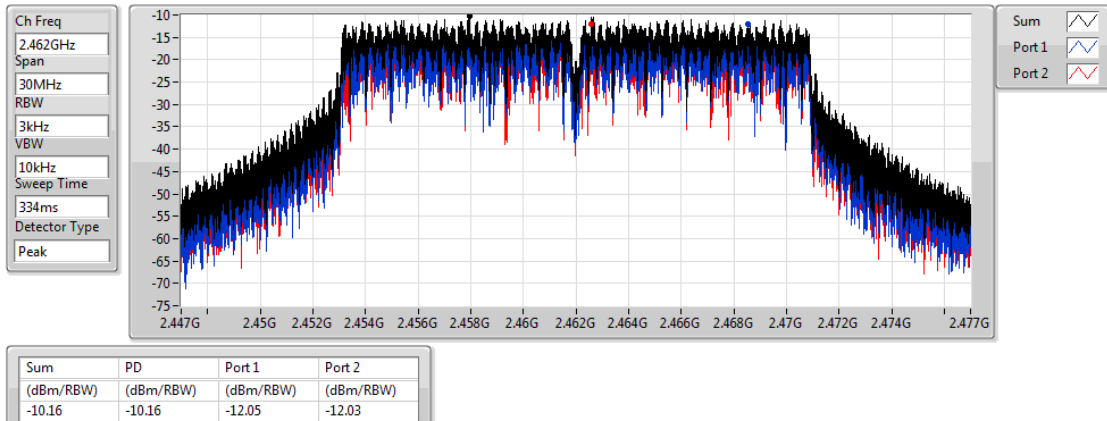
09/05/2018



802.11n HT20_Nss1,(MCS0)_2TX

2462MHz

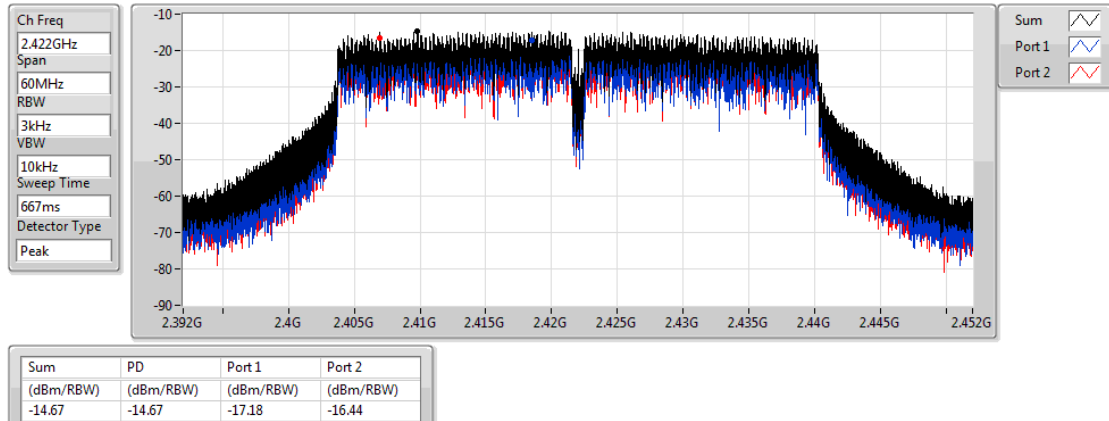
09/05/2018



802.11n HT40_Nss1,(MCS0)_2TX

2422MHz

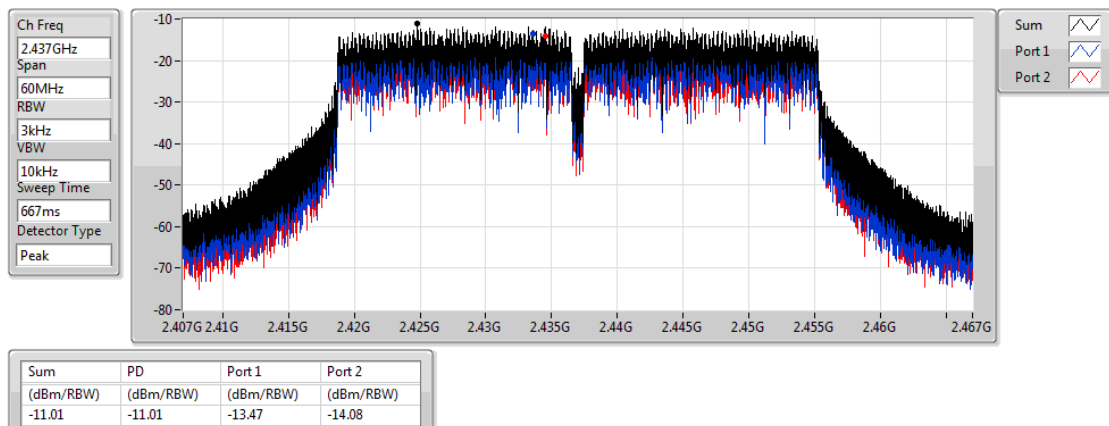
09/05/2018



802.11n HT40_Nss1,(MCS0)_2TX

2437MHz

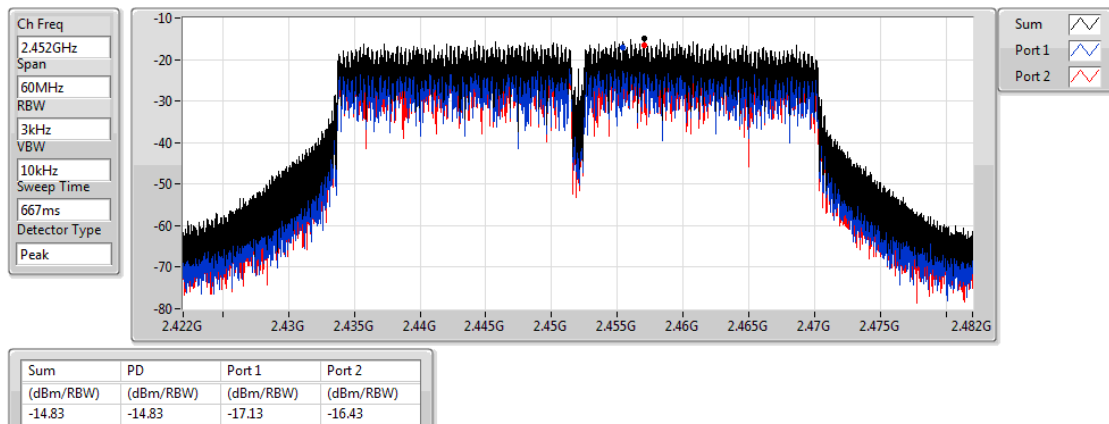
09/05/2018



802.11n HT40_Nss1,(MCS0)_2TX

2452MHz

09/05/2018





CSE Non-restricted Band Result

Appendix E

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	7.32	-22.68	914.235M	-47.12	2.39944G	-47.81	2.50134G	-48.01	7.235136G	-39.13	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.439412G	11.91	-18.09	697.545M	-37.58	2.39992G	-28.24	2.51918G	-38.91	6.979466G	-31.04	1
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.438243G	12.49	-17.51	893.265M	-37.81	2.39992G	-24.78	2.49734G	-38.08	16.599408G	-30.80	2
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.430728G	1.95	-28.05	702.115M	-57.54	2.39968G	-34.94	2.5099G	-54.46	21.749512G	-50.02	2

Result

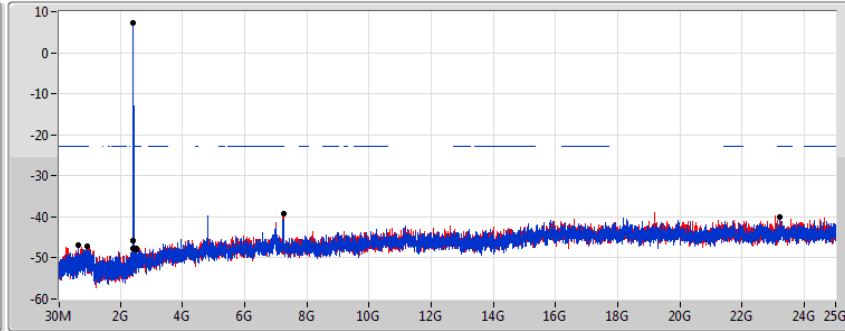
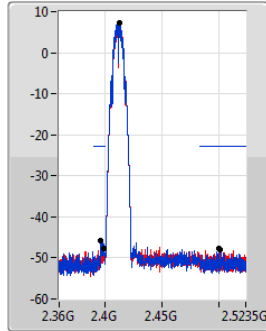
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.412525G	7.32	-22.68	648.615M	-46.97	2.39648G	-45.90	2.49998G	-47.72	23.193451G	-40.12	1
2412MHz	Pass	2.412525G	7.32	-22.68	914.235M	-47.12	2.39944G	-47.81	2.50134G	-48.01	7.235136G	-39.13	2
2437MHz	Pass	2.412525G	7.32	-22.68	734.825M	-47.89	2.39952G	-49.97	2.49998G	-47.54	24.74433G	-40.57	1
2437MHz	Pass	2.412525G	7.32	-22.68	718.515M	-46.92	2.39176G	-47.94	2.52134G	-47.33	23.249643G	-39.33	2
2462MHz	Pass	2.412525G	7.32	-22.68	930.545M	-47.79	2.39232G	-49.85	2.49998G	-47.34	23.20469G	-41.07	1
2462MHz	Pass	2.412525G	7.32	-22.68	941.03M	-47.54	2.39768G	-48.52	2.4959G	-47.83	6.985085G	-39.79	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.439412G	11.91	-18.09	697.545M	-37.58	2.39992G	-28.24	2.51918G	-38.91	6.979466G	-31.04	1
2412MHz	Pass	2.439412G	11.91	-18.09	546.095M	-38.17	2.3996G	-29.50	2.49022G	-38.25	24.929761G	-31.02	2
2437MHz	Pass	2.439412G	11.91	-18.09	551.92M	-38.54	2.39968G	-38.41	2.49934G	-38.59	16.557265G	-31.59	1
2437MHz	Pass	2.439412G	11.91	-18.09	740.65M	-36.67	2.39992G	-37.60	2.48366G	-38.87	16.900031G	-30.99	2
2462MHz	Pass	2.439412G	11.91	-18.09	899.09M	-37.97	2.39112G	-39.48	2.5119G	-38.94	15.326676G	-31.27	1
2462MHz	Pass	2.439412G	11.91	-18.09	879.285M	-37.12	2.3976G	-38.75	2.50734G	-38.44	17.526564G	-31.33	2
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.438243G	12.49	-17.51	867.635M	-36.93	2.39992G	-25.18	2.51414G	-39.10	23.213118G	-31.25	1
2412MHz	Pass	2.438243G	12.49	-17.51	893.265M	-37.81	2.39992G	-24.78	2.49734G	-38.08	16.599408G	-30.80	2
2437MHz	Pass	2.438243G	12.49	-17.51	875.79M	-38.16	2.3944G	-37.99	2.49918G	-39.18	24.980333G	-31.01	1
2437MHz	Pass	2.438243G	12.49	-17.51	923.555M	-37.16	2.3984G	-37.20	2.50246G	-38.23	23.241214G	-31.45	2
2462MHz	Pass	2.438243G	12.49	-17.51	360.86M	-38.06	2.3928G	-40.71	2.49734G	-38.81	17.61366G	-30.82	1
2462MHz	Pass	2.438243G	12.49	-17.51	673.08M	-37.39	2.39272G	-39.92	2.50702G	-38.58	21.454332G	-31.03	2
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.430728G	1.95	-28.05	2.305115G	-56.07	2.39984G	-34.99	2.49998G	-50.93	6.966663G	-50.34	1
2422MHz	Pass	2.430728G	1.95	-28.05	702.115M	-57.54	2.39968G	-34.94	2.5099G	-54.46	21.749512G	-50.02	2
2437MHz	Pass	2.430728G	1.95	-28.05	2.305115G	-55.74	2.39824G	-43.89	2.49998G	-51.38	16.754586G	-51.02	1
2437MHz	Pass	2.430728G	1.95	-28.05	762.8M	-57.00	2.39936G	-46.88	2.48366G	-53.94	16.580703G	-51.05	2
2452MHz	Pass	2.430728G	1.95	-28.05	952.87M	-57.67	2.39696G	-53.20	2.49998G	-49.46	16.903228G	-50.61	1
2452MHz	Pass	2.430728G	1.95	-28.05	449.07M	-57.13	2.39488G	-54.25	2.48446G	-51.78	24.245573G	-50.67	2

802.11b_Nss1,(1Mbps)_2TX

CSE NdB

2412MHz

09/05/2018



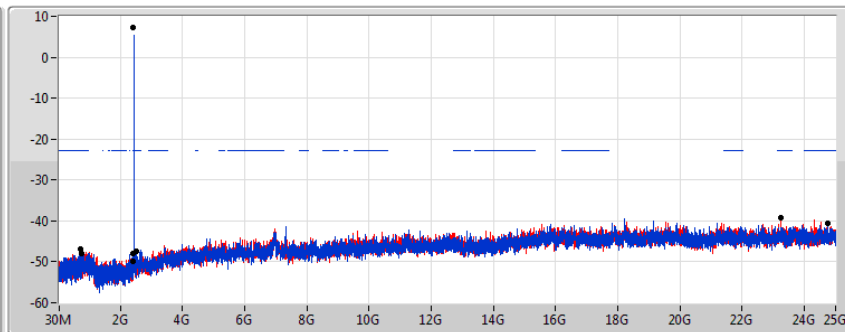
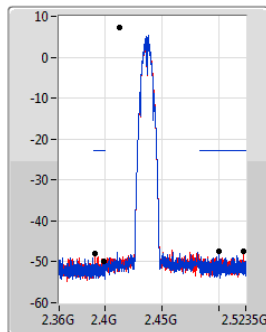
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.412525G	7.32	-22.68	648.615M	-46.97	2.39648G	-45.90	2.49998G	-47.72	23.193451G	-40.12	1
2.412525G	7.32	-22.68	914.235M	-47.12	2.39944G	-47.81	2.50134G	-48.01	7.235136G	-39.13	2

802.11b_Nss1,(1Mbps)_2TX

CSE NdB

2437MHz

09/05/2018



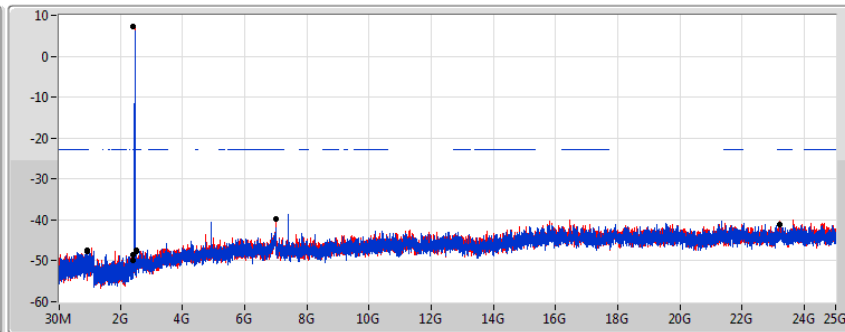
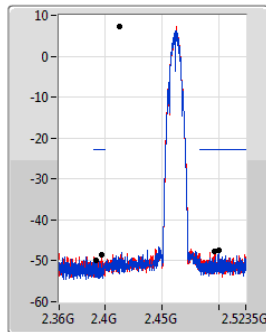
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2.412525G	7.32	-22.68	734.825M	-47.89	2.39952G	-49.97	2.49998G	-47.54	24.74433G	-40.57	1
2.412525G	7.32	-22.68	718.515M	-46.92	2.39176G	-47.94	2.52134G	-47.33	23.249643G	-39.33	2

802.11b_Nss1,(1Mbps)_2TX

CSE NdB

2462MHz

09/05/2018



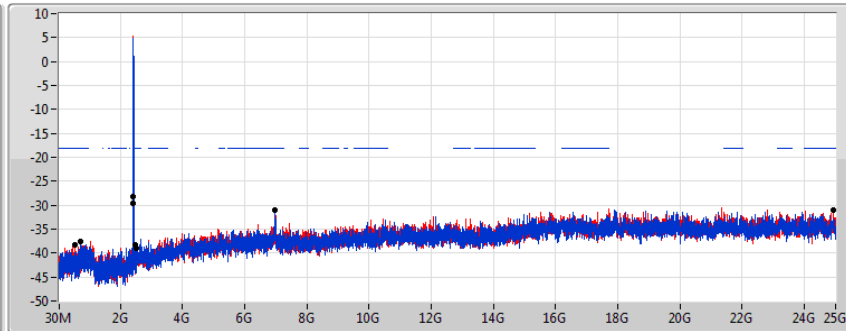
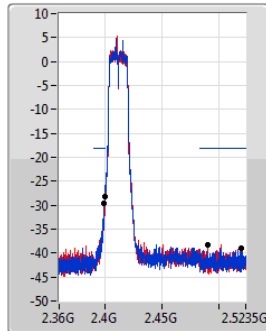
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.412525G	7.32	-22.68	930.545M	-47.79	2.39232G	-49.85	2.49998G	-47.34	23.20469G	-41.07	1
2.412525G	7.32	-22.68	941.03M	-47.54	2.39768G	-48.52	2.4959G	-47.83	6.985085G	-39.79	2



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

2412MHz

09/05/2018



Port 1 
Port 2 

RBW VBW
100kHz 300kHz
Detector Type
Peak

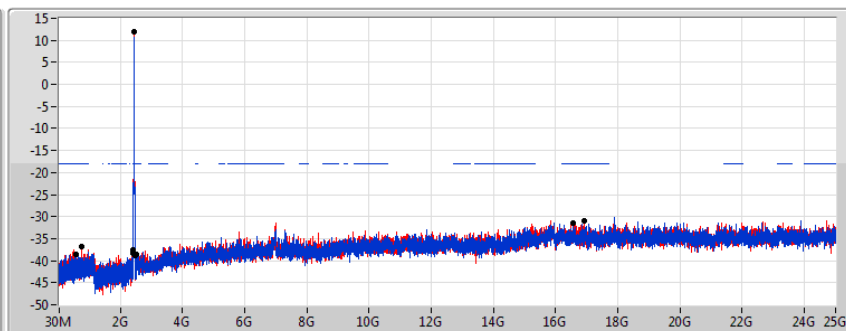
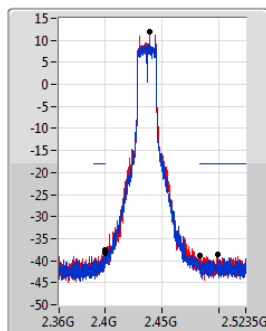
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.439412G	11.91	-18.09	697.545M	-37.58	2.39992G	-28.24	2.51918G	-38.91	6.979466G	-31.04	1
2.439412G	11.91	-18.09	546.095M	-38.17	2.3996G	-29.50	2.49022G	-38.25	24.929761G	-31.02	2



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

2437MHz

09/05/2018



Port 1 
Port 2 

RBW VBW
100kHz 300kHz
Detector Type
Peak

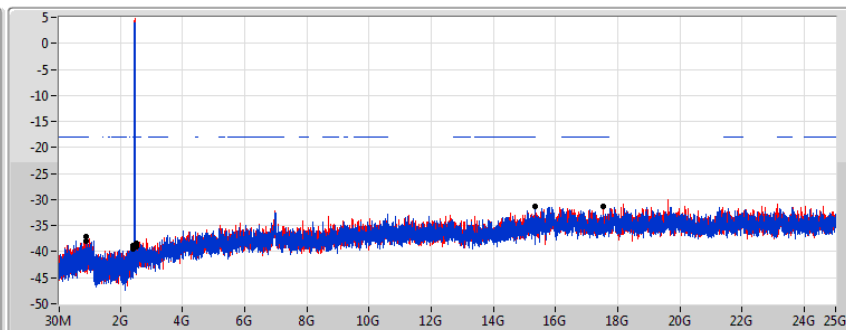
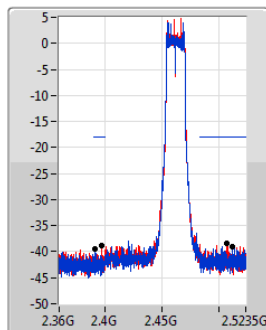
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.439412G	11.91	-18.09	551.92M	-38.54	2.39968G	-38.41	2.49934G	-38.59	16.557265G	-31.59	1
2.439412G	11.91	-18.09	740.65M	-36.67	2.39992G	-37.60	2.48366G	-38.87	16.900031G	-30.99	2



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

2462MHz

09/05/2018



Port 1 
Port 2 

RBW VBW
100kHz 300kHz
Detector Type
Peak

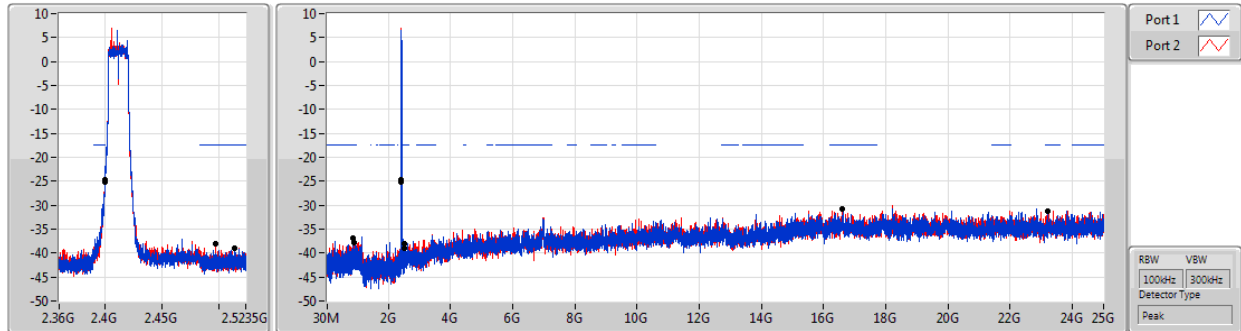
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.439412G	11.91	-18.09	899.09M	-37.97	2.39112G	-39.48	2.5119G	-38.94	15.326676G	-31.27	1
2.439412G	11.91	-18.09	879.285M	-37.12	2.3976G	-38.75	2.50734G	-38.44	17.526564G	-31.33	2

802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

2412MHz

09/05/2018



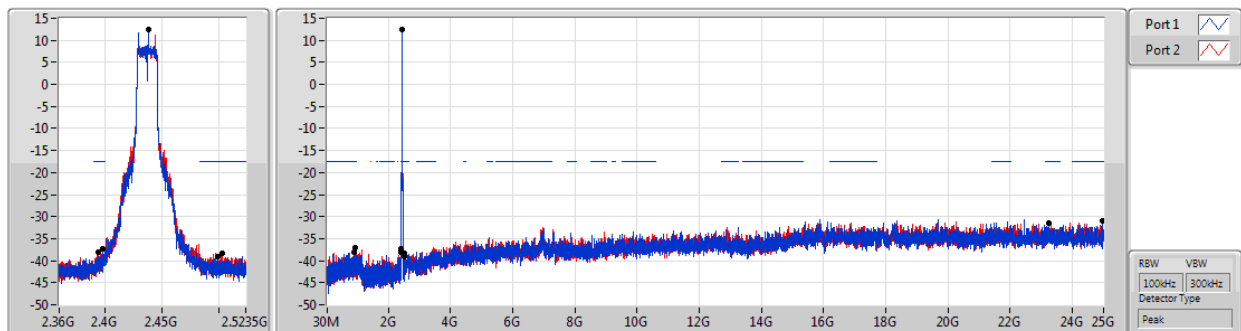
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.438243G	12.49	-17.51	867.635M	-36.93	2.39992G	-25.18	2.51414G	-39.10	23.213118G	-31.25	1
2.438243G	12.49	-17.51	893.265M	-37.81	2.39992G	-24.78	2.49734G	-38.08	16.599408G	-30.80	2

802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

2437MHz

09/05/2018



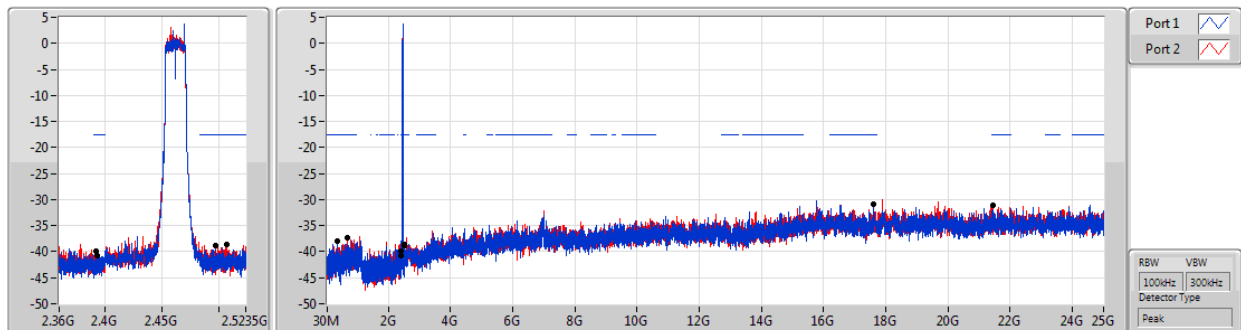
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.438243G	12.49	-17.51	875.79M	-38.16	2.3944G	-37.99	2.49918G	-39.18	24.980333G	-31.01	1
2.438243G	12.49	-17.51	923.555M	-37.16	2.3984G	-37.20	2.50246G	-38.23	23.241214G	-31.45	2

802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

2462MHz

09/05/2018



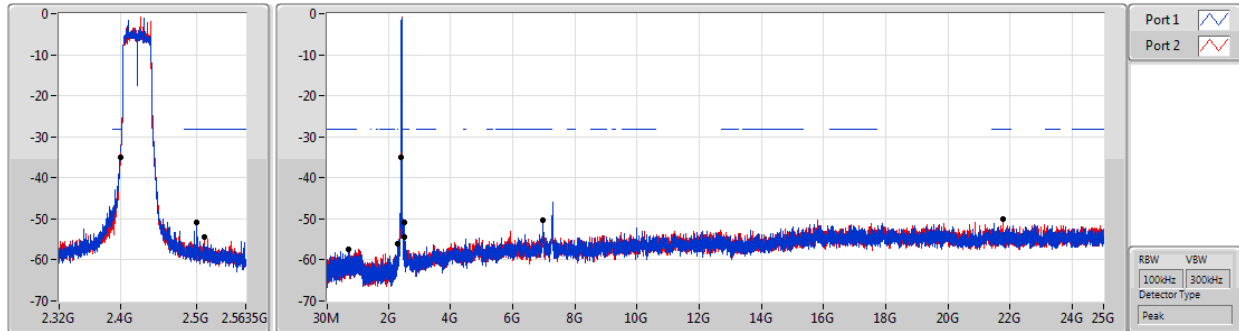
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.438243G	12.49	-17.51	360.86M	-38.06	2.3928G	-40.71	2.49734G	-38.81	17.61366G	-30.82	1
2.438243G	12.49	-17.51	673.08M	-37.39	2.39272G	-39.92	2.50702G	-38.58	21.454332G	-31.03	2

802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

2422MHz

09/05/2018



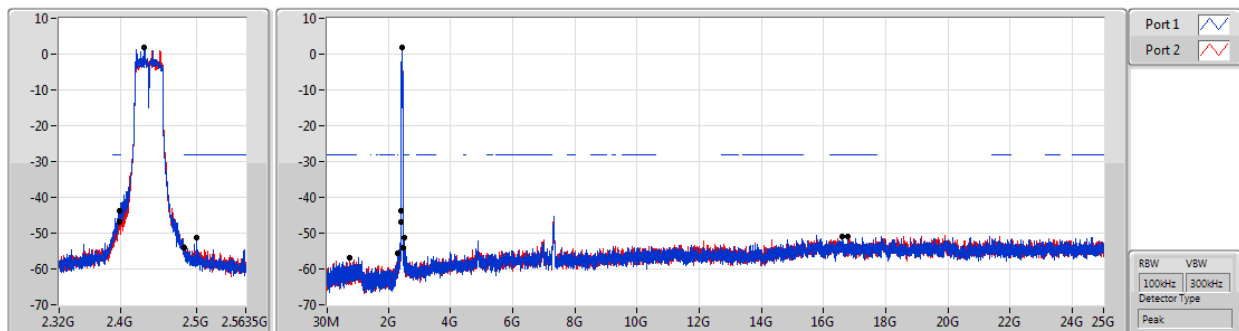
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2.430728G	1.95	-28.05	2.305115G	-56.07	2.39984G	-34.99	2.49998G	-50.93	6.966663G	-50.34	1
2.430728G	1.95	-28.05	702.115M	-57.54	2.39968G	-34.94	2.5099G	-54.46	21.749512G	-50.02	2

802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

2437MHz

09/05/2018



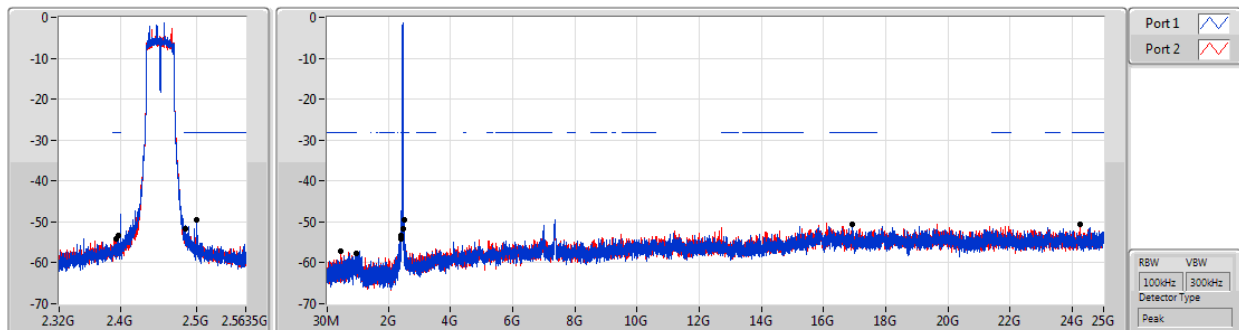
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2.430728G	1.95	-28.05	2.305115G	-55.74	2.39824G	-43.89	2.49998G	-51.38	16.754586G	-51.02	1
2.430728G	1.95	-28.05	762.8M	-57.00	2.39936G	-46.88	2.48366G	-53.94	16.580703G	-51.05	2

802.11n HT40_Nss1,(MCS0)_2TX

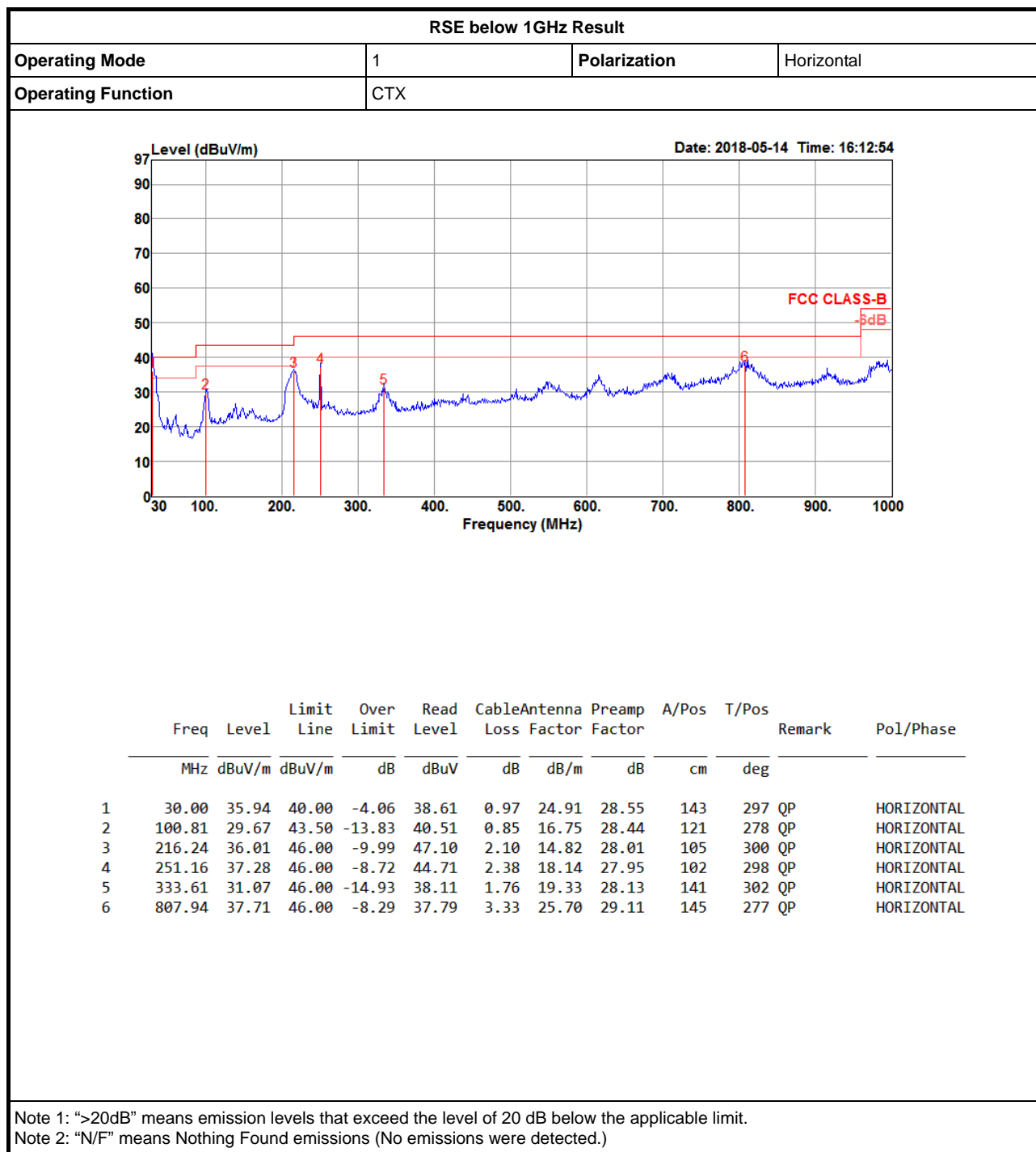
CSE NdB

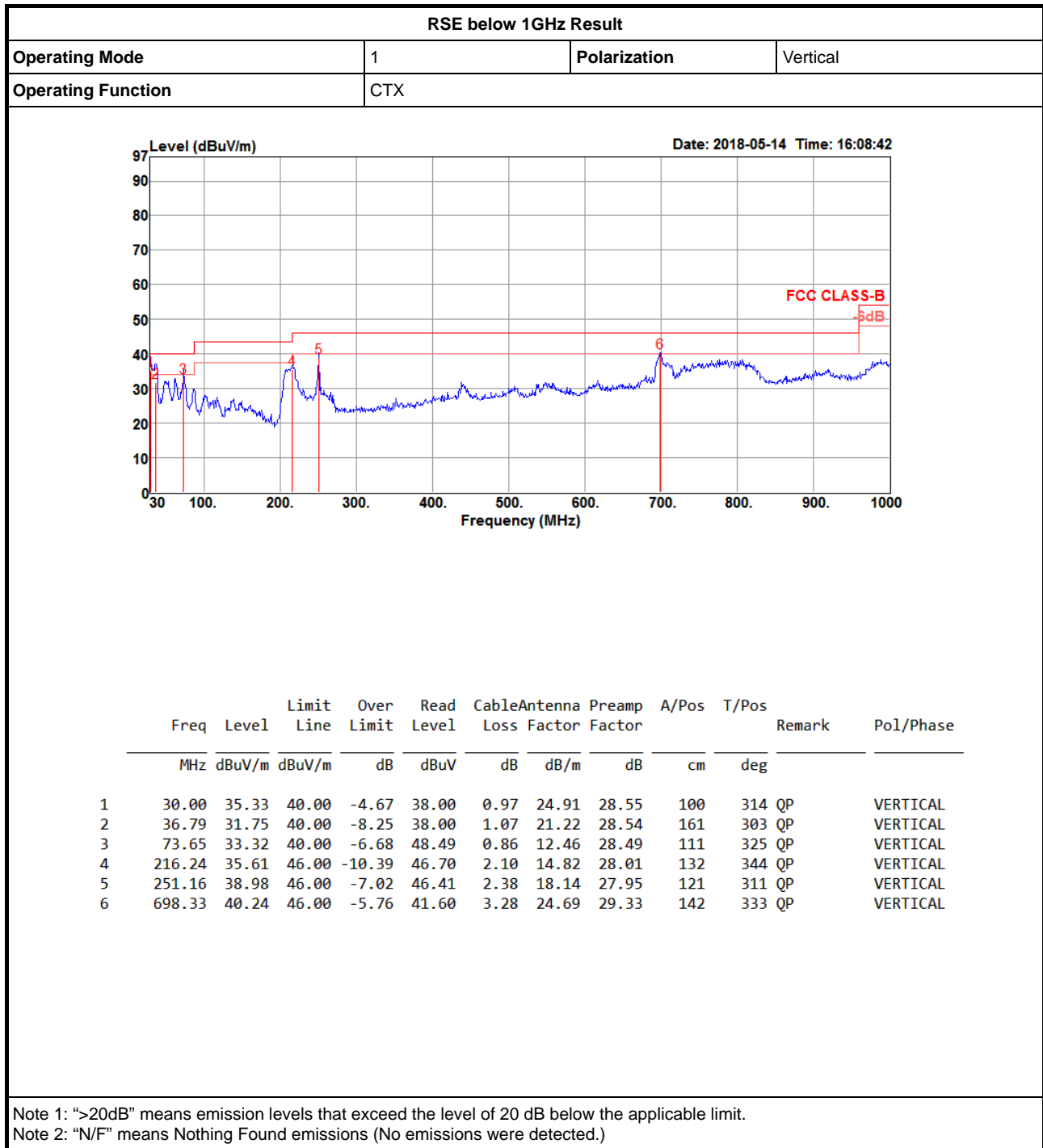
2452MHz

09/05/2018



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.430728G	1.95	-28.05	952.87M	-57.67	2.39696G	-53.20	2.49998G	-49.46	16.903228G	-50.61	1
2.430728G	1.95	-28.05	449.07M	-57.13	2.39488G	-54.25	2.48446G	-51.78	24.245573G	-50.67	2





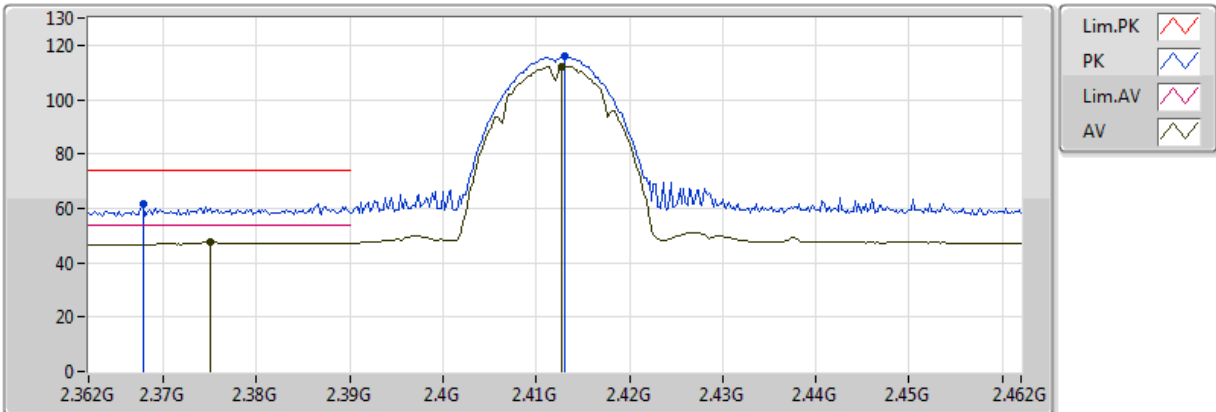
**Summary**

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 HT20_Nss1,(MCS0)_2TX	Pass	PK	2.4844G	73.98	74.00	-0.02	31.80	3	Vertical	358	1.67	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

08/05/2018



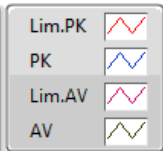
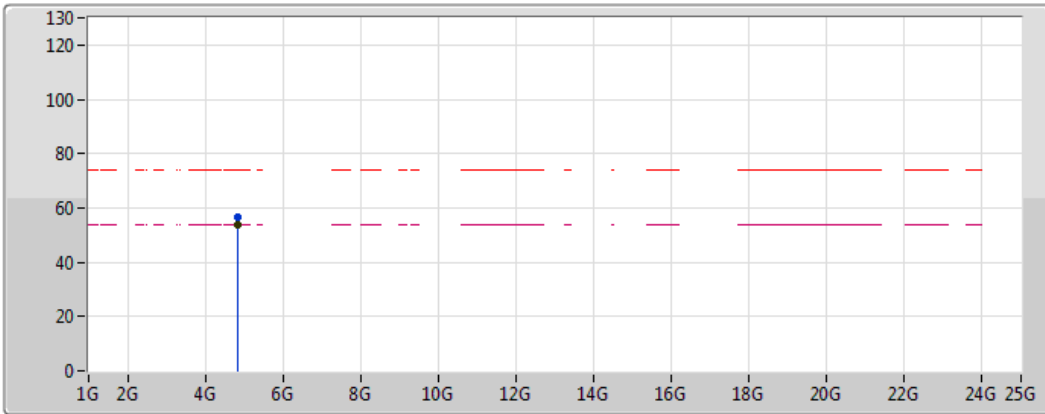
EUT Y_2TX (Omni-Directional ANT)
Setting 16
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3678G	61.90	74.00	-12.10	31.51	3	Vertical	8	1.49	
AV	2.375G	47.61	54.00	-6.39	31.52	3	Vertical	8	1.49	
PK	2.413G	116.14	Inf	-Inf	31.62	3	Vertical	8	1.49	
AV	2.4128G	112.23	Inf	-Inf	31.62	3	Vertical	8	1.49	

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

08/05/2018



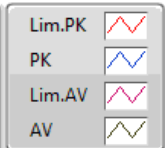
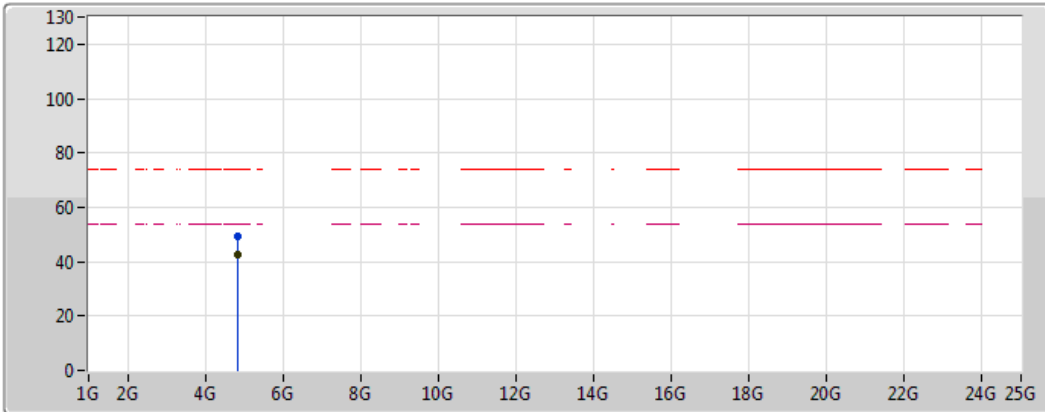
EUT Y_2TX (Omni-Directional ANT)
Setting 16
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.82412G	56.57	74.00	-17.43	7.57	3	Vertical	59	1.61	
AV	4.824G	53.60	54.00	-0.40	7.57	3	Vertical	59	1.61	

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

08/05/2018



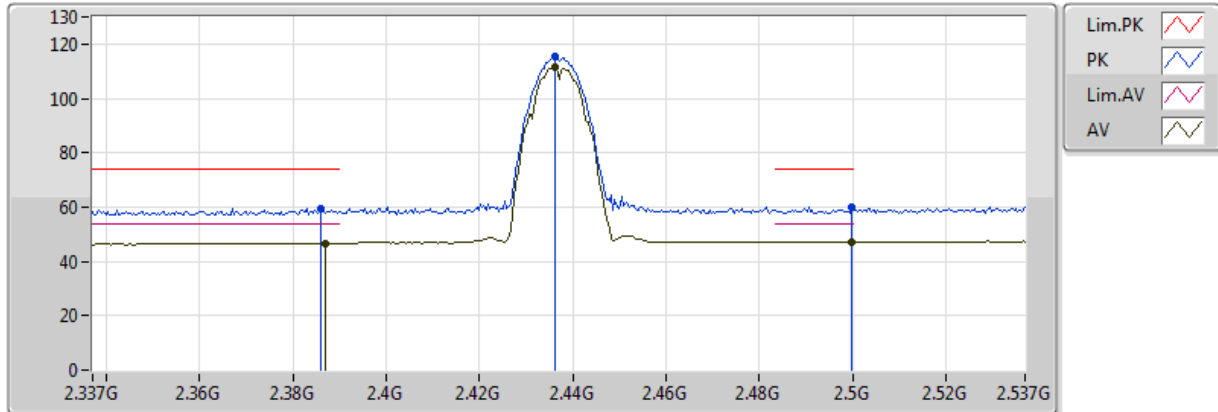
EUT Y_2TX (Omni-Directional ANT)
Setting 16
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.82394G	49.10	74.00	-24.90	7.57	3	Horizontal	325	2.21	
AV	4.824G	42.73	54.00	-11.27	7.57	3	Horizontal	325	2.21	

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

09/05/2018



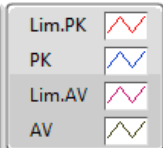
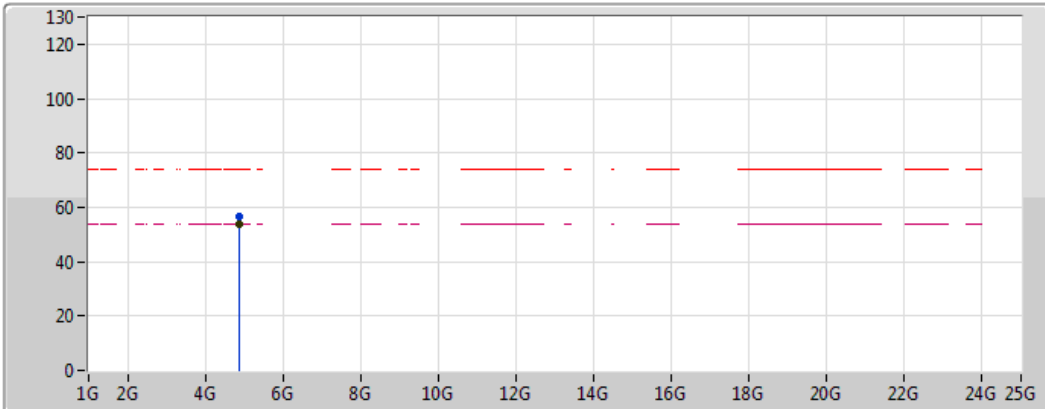
EUT Y_2TX (Omni-Directional ANT)
Setting 14
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3858G	59.43	74.00	-14.57	31.55	3	Vertical	67	1.57	
AV	2.387G	46.64	54.00	-7.36	31.55	3	Vertical	67	1.57	
PK	2.4362G	115.27	Inf	-Inf	31.68	3	Vertical	67	1.57	
AV	2.4362G	111.63	Inf	-Inf	31.68	3	Vertical	67	1.57	
PK	2.4998G	59.74	74.00	-14.26	31.84	3	Vertical	67	1.57	
AV	2.4998G	47.32	54.00	-6.68	31.84	3	Vertical	67	1.57	

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

09/05/2018



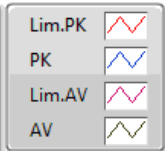
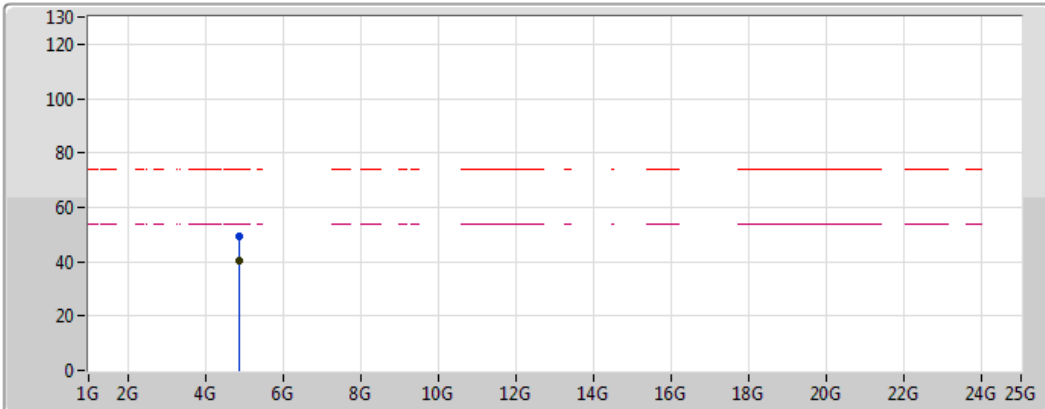
EUT Y_2TX (Omni-Directional ANT)
Setting 14
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.87404G	56.83	74.00	-17.17	7.66	3	Vertical	60	1.59	
AV	4.874G	53.86	54.00	-0.14	7.66	3	Vertical	60	1.59	

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

09/05/2018



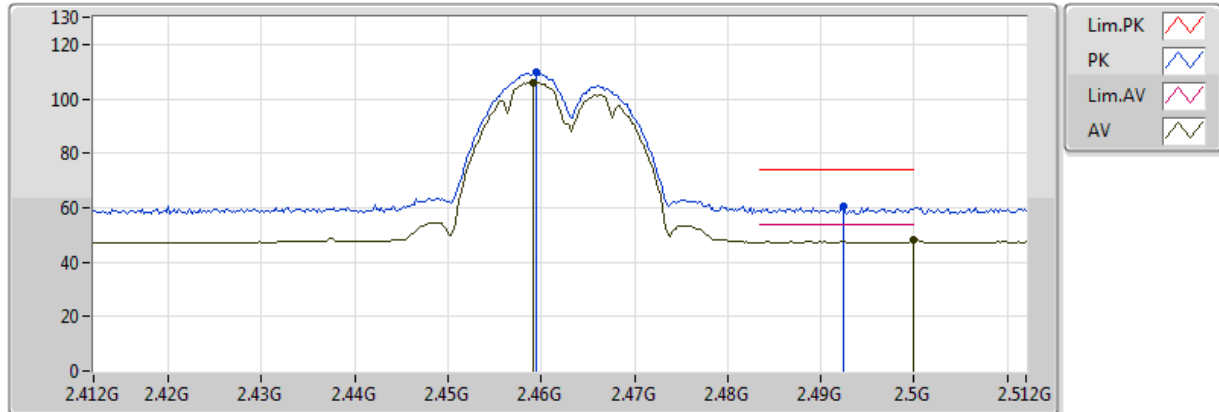
EUT Y_2TX (Omni-Directional ANT)
Setting 14
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.87422G	49.04	74.00	-24.96	7.66	3	Horizontal	172	1.50	
AV	4.874G	40.50	54.00	-13.50	7.66	3	Horizontal	172	1.50	

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

09/05/2018



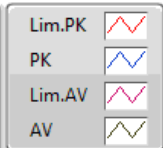
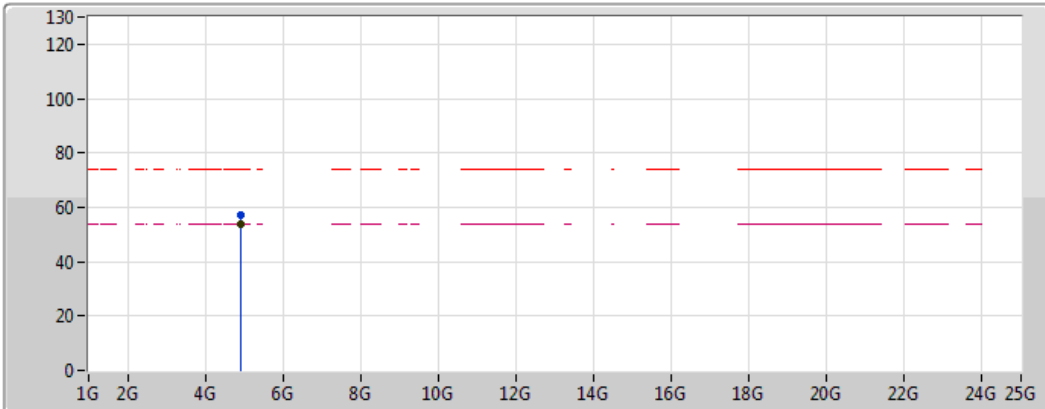
EUT Y_2TX (Omni-Directional ANT)
Setting 15
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.4594G	109.75	Inf	-Inf	31.74	3	Vertical	326	1.71	
AV	2.4592G	106.03	Inf	-Inf	31.74	3	Vertical	326	1.71	
PK	2.4924G	60.29	74.00	-13.71	31.82	3	Vertical	326	1.71	
AV	2.499998G	48.27	54.00	-5.73	31.84	3	Vertical	326	1.71	

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

09/05/2018



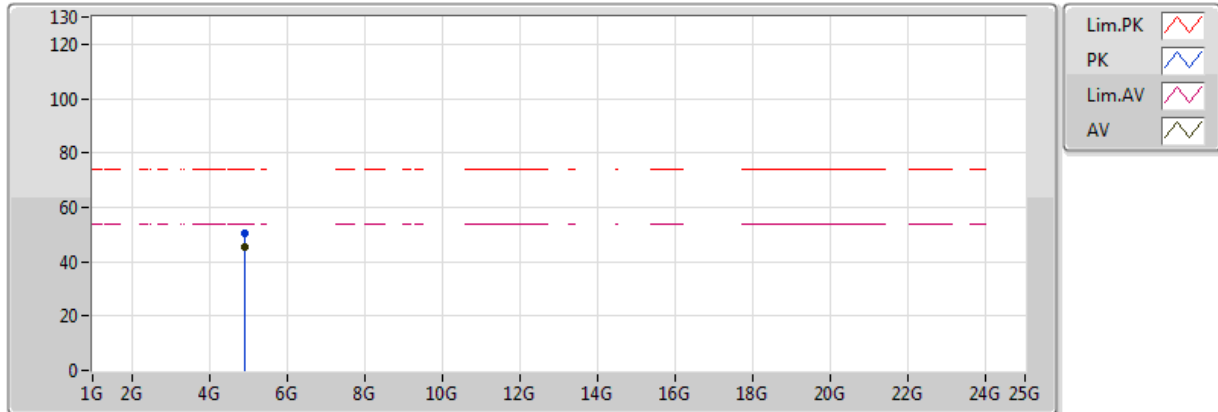
EUT Y_2TX (Omni-Directional ANT)
Setting 15
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.92404G	57.01	74.00	-16.99	7.76	3	Vertical	65	1.59	
AV	4.92404G	53.76	54.00	-0.24	7.76	3	Vertical	65	1.59	

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

09/05/2018



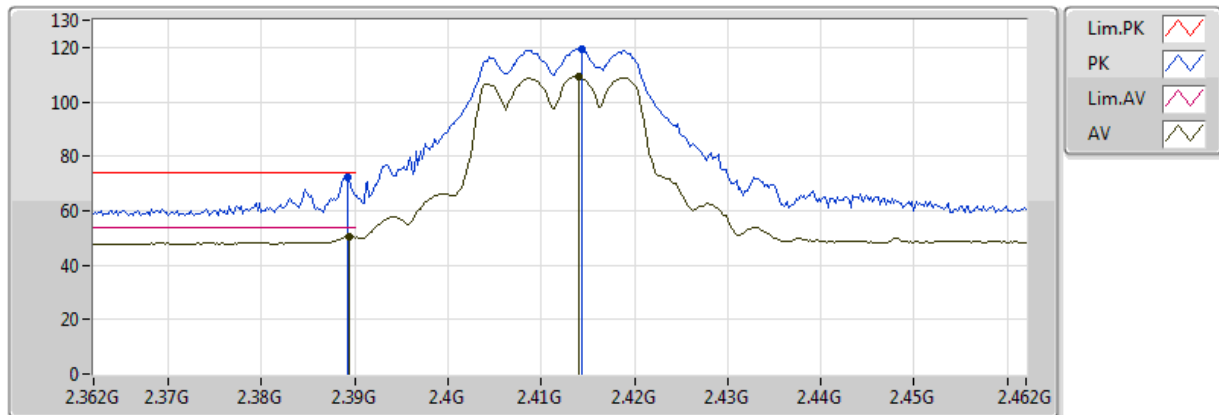
EUT Y_2TX (Omni-Directional ANT)
Setting 15
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.92392G	50.38	74.00	-23.62	7.76	3	Horizontal	202	1.58	
AV	4.924G	45.11	54.00	-8.89	7.76	3	Horizontal	202	1.58	

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

09/05/2018



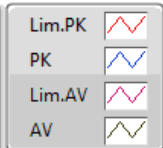
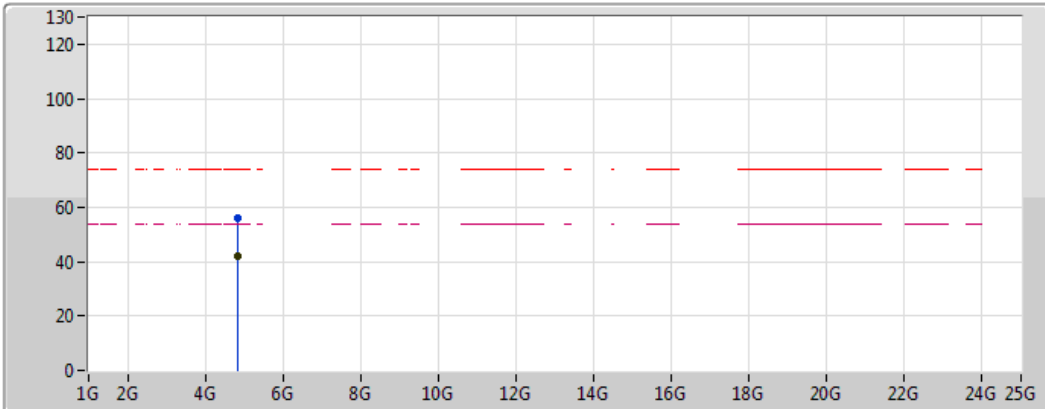
EUT Y_2TX (Omni-Directional ANT)
Setting 15.5
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3892G	72.41	74.00	-1.59	31.56	3	Vertical	358	1.69	
AV	2.3894G	50.26	54.00	-3.74	31.56	3	Vertical	358	1.69	
PK	2.4144G	119.63	Inf	-Inf	31.62	3	Vertical	358	1.69	
AV	2.414G	109.31	Inf	-Inf	31.62	3	Vertical	358	1.69	

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

09/05/2018



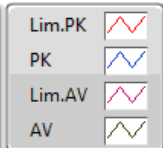
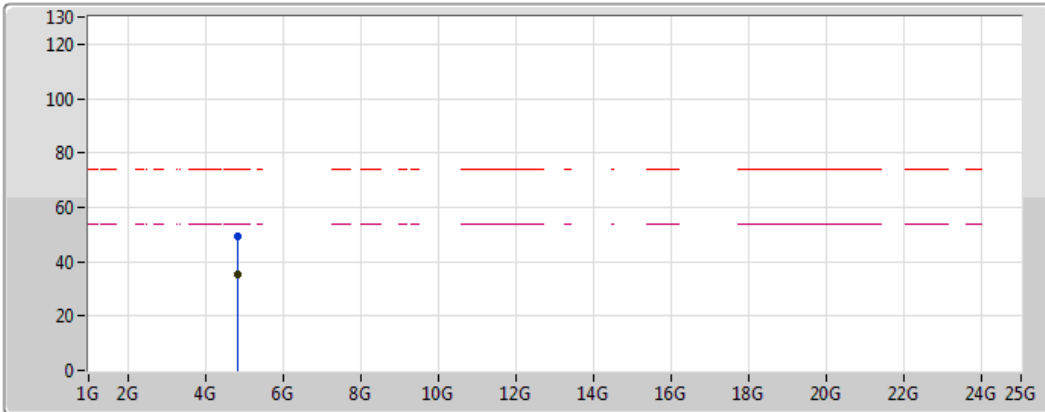
EUT Y_2TX (Omni-Directional ANT)
Setting 15.5
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.82972G	55.94	74.00	-18.06	7.58	3	Vertical	62	1.68	
AV	4.82416G	42.20	54.00	-11.80	7.57	3	Vertical	62	1.68	

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

09/05/2018



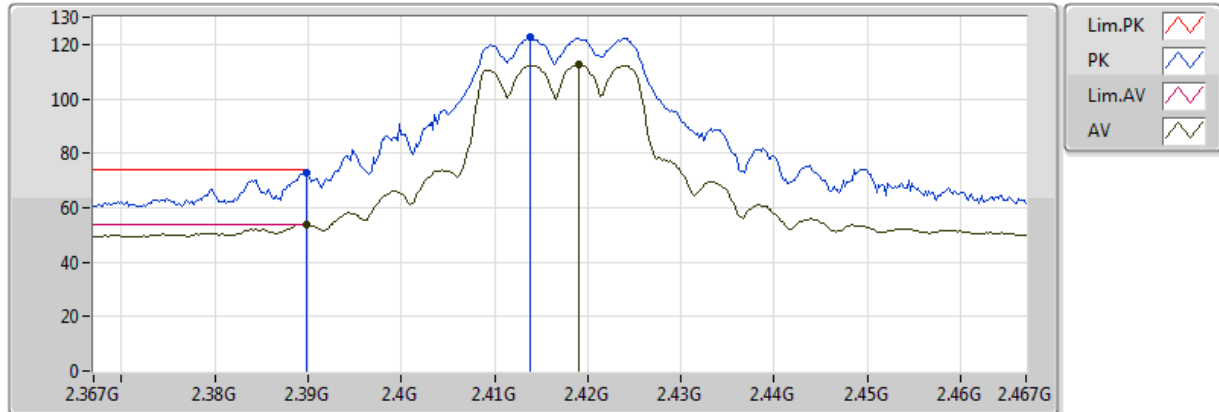
EUT Y_2TX (Omni-Directional ANT)
Setting 15.5
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.83372G	49.14	74.00	-24.86	7.58	3	Horizontal	331	1.76	
AV	4.82388G	35.27	54.00	-18.73	7.57	3	Horizontal	331	1.76	

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

09/05/2018



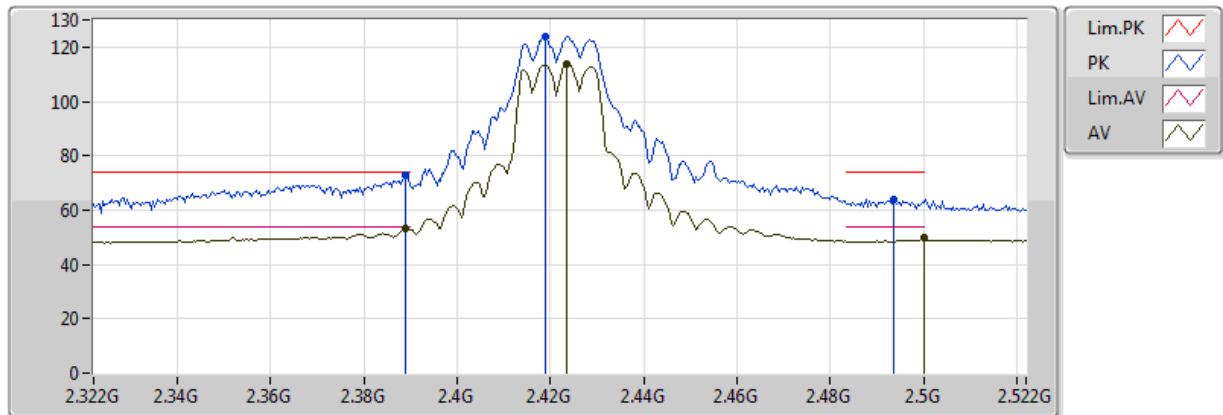
EUT Y_2TX (Omni-Directional ANT)
Setting 18.5
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3898G	72.93	74.00	-1.07	31.56	3	Vertical	360	1.69	
AV	2.3898G	53.96	54.00	-0.04	31.56	3	Vertical	360	1.69	
PK	2.4138G	122.57	Inf	-Inf	31.62	3	Vertical	360	1.69	
AV	2.419G	112.51	Inf	-Inf	31.64	3	Vertical	360	1.69	

802.11g_Nss1,(6Mbps)_2TX

2422MHz_TX

09/05/2018



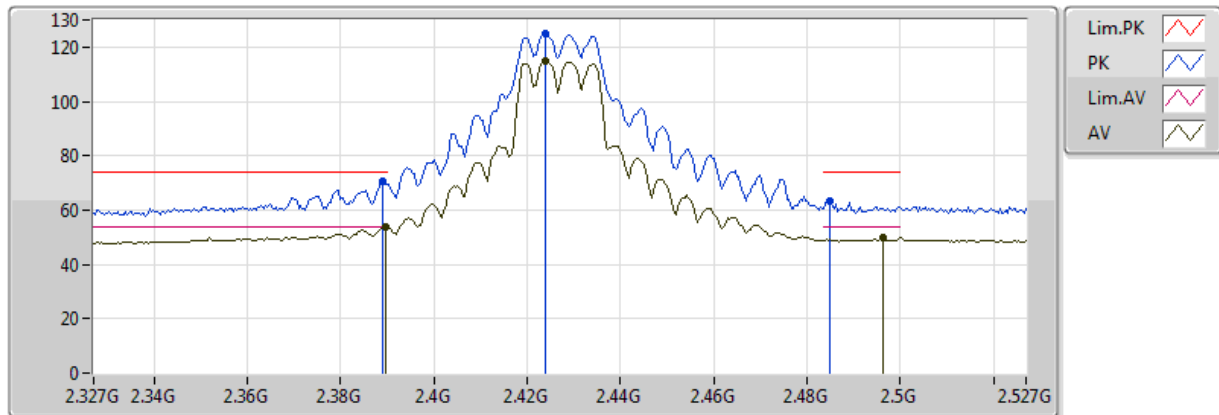
EUT Y_2TX (Omni-Directional ANT)
Setting 19.5
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3888G	72.88	74.00	-1.12	31.56	3	Vertical	359	1.61	
AV	2.3888G	53.22	54.00	-0.78	31.56	3	Vertical	359	1.61	
PK	2.4188G	123.72	Inf	-Inf	31.64	3	Vertical	359	1.61	
AV	2.4236G	113.69	Inf	-Inf	31.65	3	Vertical	359	1.61	
PK	2.4936G	63.77	74.00	-10.23	31.82	3	Vertical	359	1.61	
AV	2.499998G	49.61	54.00	-4.39	31.84	3	Vertical	359	1.61	

802.11g_Nss1,(6Mbps)_2TX

2427MHz_TX

09/05/2018



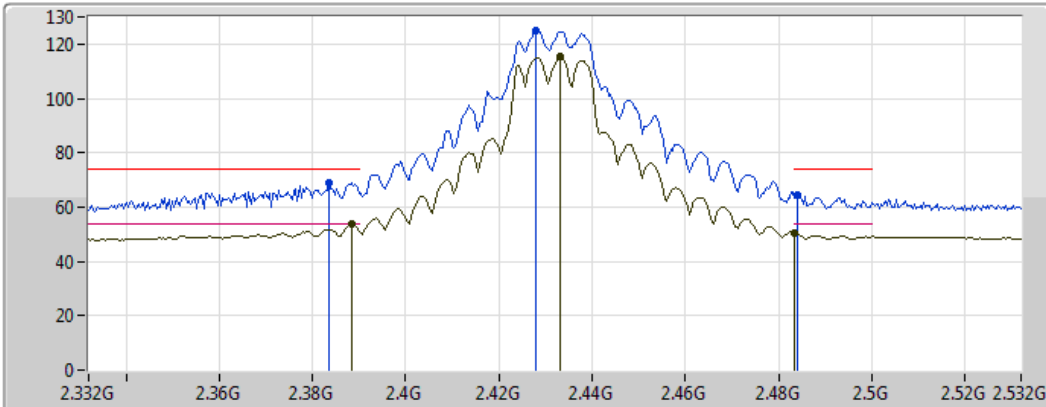
EUT Y_2TX (Omni-Directional ANT)
Setting 21
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.389G	70.70	74.00	-3.30	31.56	3	Vertical	360	1.66	
AV	2.3898G	53.82	54.00	-0.18	31.56	3	Vertical	360	1.66	
PK	2.4238G	124.85	Inf	-Inf	31.65	3	Vertical	360	1.66	
AV	2.4238G	114.95	Inf	-Inf	31.65	3	Vertical	360	1.66	
PK	2.485G	63.56	74.00	-10.44	31.80	3	Vertical	360	1.66	
AV	2.4962G	49.80	54.00	-4.20	31.83	3	Vertical	360	1.66	

802.11g_Nss1,(6Mbps)_2TX

2432MHz_TX

09/05/2018



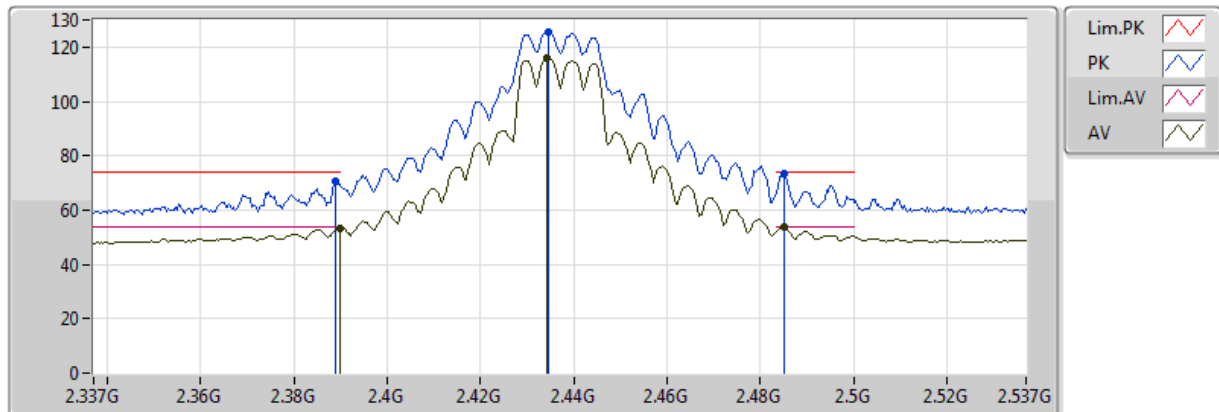
EUT Y_2TX (Omni-Directional ANT)
Setting 22
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3836G	68.84	74.00	-5.16	31.55	3	Vertical	4	1.56	
AV	2.3884G	53.61	54.00	-0.39	31.56	3	Vertical	4	1.56	
PK	2.428G	124.99	Inf	-Inf	31.66	3	Vertical	4	1.56	
AV	2.4332G	115.17	Inf	-Inf	31.67	3	Vertical	4	1.56	
PK	2.484G	64.41	74.00	-9.59	31.80	3	Vertical	4	1.56	
AV	2.483502G	50.43	54.00	-3.57	31.80	3	Vertical	4	1.56	

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

09/05/2018



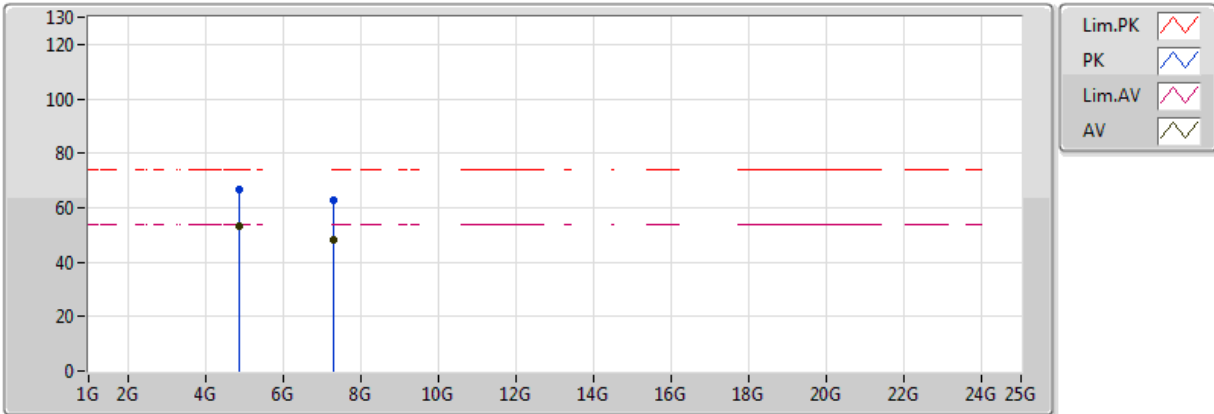
EUT Y_2TX (Omni-Directional ANT)
Setting 23
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.389G	70.59	74.00	-3.41	31.56	3	Vertical	352	1.58	
AV	2.3898G	53.44	54.00	-0.56	31.56	3	Vertical	352	1.58	
PK	2.4346G	125.65	Inf	-Inf	31.68	3	Vertical	352	1.58	
AV	2.4342G	115.77	Inf	-Inf	31.67	3	Vertical	352	1.58	
PK	2.485G	73.45	74.00	-0.55	31.80	3	Vertical	352	1.58	
AV	2.485G	53.69	54.00	-0.31	31.80	3	Vertical	352	1.58	

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

09/05/2018



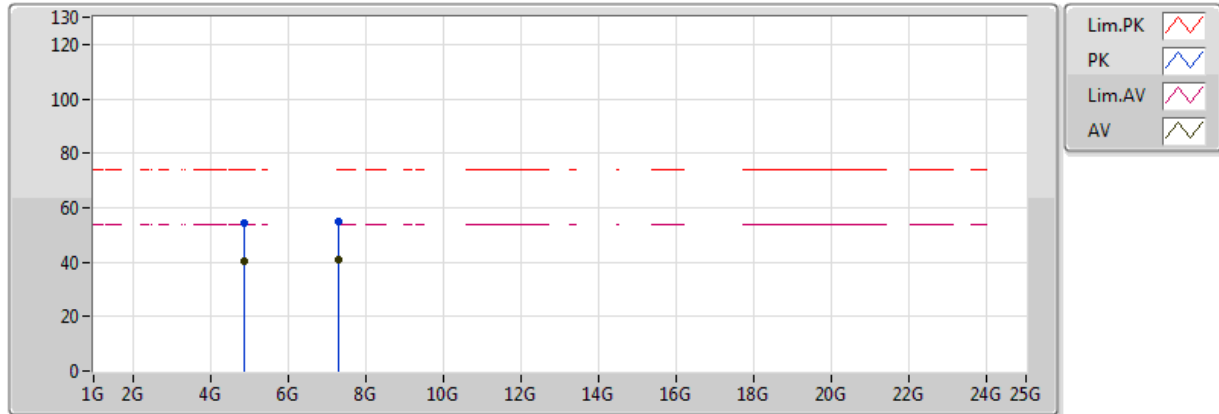
EUT Y_2TX (Omni-Directional ANT)
Setting 23
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.87468G	66.88	74.00	-7.12	7.66	3	Vertical	29	1.68	
AV	4.87424G	53.19	54.00	-0.81	7.66	3	Vertical	29	1.68	
PK	7.31964G	62.62	74.00	-11.38	10.76	3	Vertical	32	1.35	
AV	7.31428G	48.24	54.00	-5.76	10.75	3	Vertical	32	1.35	

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

09/05/2018



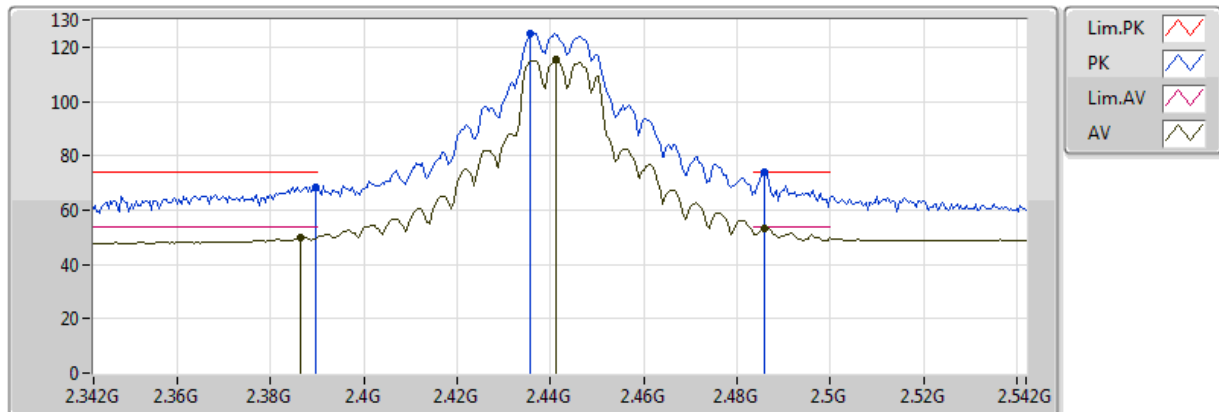
EUT Y_2TX (Omni-Directional ANT)
Setting 23
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.87456G	54.41	74.00	-19.59	7.66	3	Horizontal	175	1.50	
AV	4.87384G	40.47	54.00	-13.53	7.66	3	Horizontal	175	1.50	
PK	7.31052G	54.64	74.00	-19.36	10.74	3	Horizontal	135	1.50	
AV	7.31536G	40.75	54.00	-13.25	10.75	3	Horizontal	135	1.50	

802.11g_Nss1,(6Mbps)_2TX

2442MHz_TX

09/05/2018



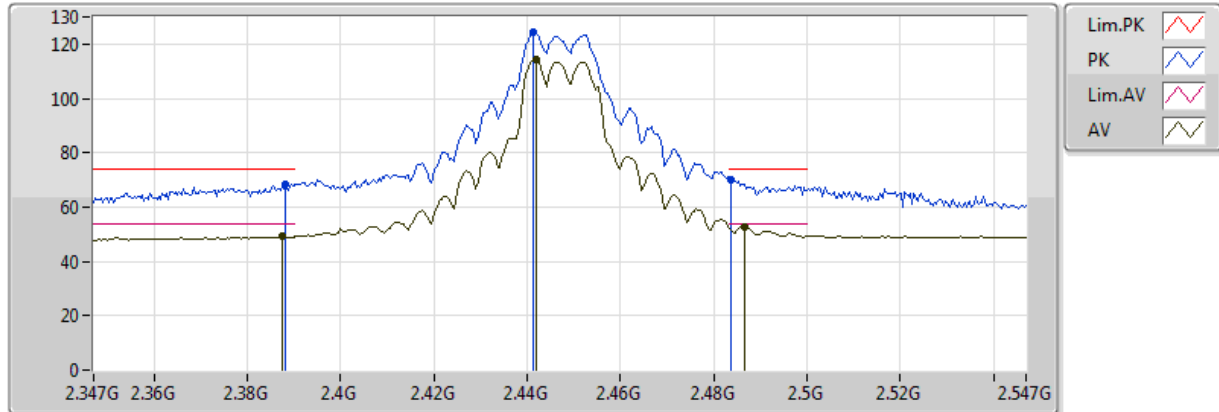
EUT Y_2TX (Omni-Directional ANT)
Setting 21.5
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3896G	68.63	74.00	-5.37	31.56	3	Vertical	17	1.68	
AV	2.3864G	49.98	54.00	-4.02	31.55	3	Vertical	17	1.68	
PK	2.4356G	125.13	Inf	-Inf	31.68	3	Vertical	17	1.68	
AV	2.4412G	115.31	Inf	-Inf	31.69	3	Vertical	17	1.68	
PK	2.486G	73.95	74.00	-0.05	31.80	3	Vertical	17	1.68	
AV	2.486G	53.30	54.00	-0.70	31.80	3	Vertical	17	1.68	

802.11g_Nss1,(6Mbps)_2TX

2447MHz_TX

09/05/2018



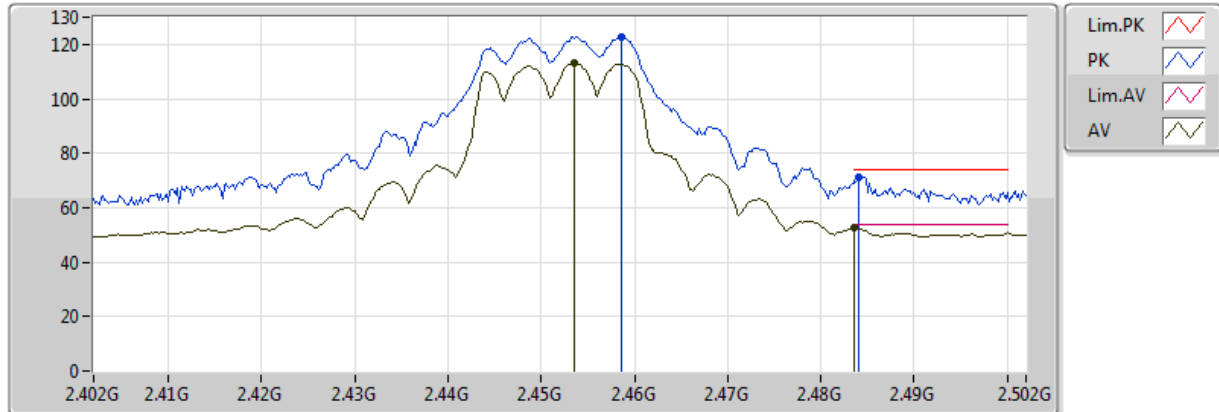
EUT Y_2TX (Omni-Directional ANT)
Setting 20.5
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3882G	68.37	74.00	-5.63	31.56	3	Vertical	12	1.63	
AV	2.3874G	49.29	54.00	-4.71	31.55	3	Vertical	12	1.63	
PK	2.4414G	124.28	Inf	-Inf	31.69	3	Vertical	12	1.63	
AV	2.4418G	114.27	Inf	-Inf	31.69	3	Vertical	12	1.63	
PK	2.4838G	70.08	74.00	-3.92	31.80	3	Vertical	12	1.63	
AV	2.4866G	52.81	54.00	-1.19	31.81	3	Vertical	12	1.63	

802.11g_Nss1,(6Mbps)_2TX

2452MHz_TX

09/05/2018



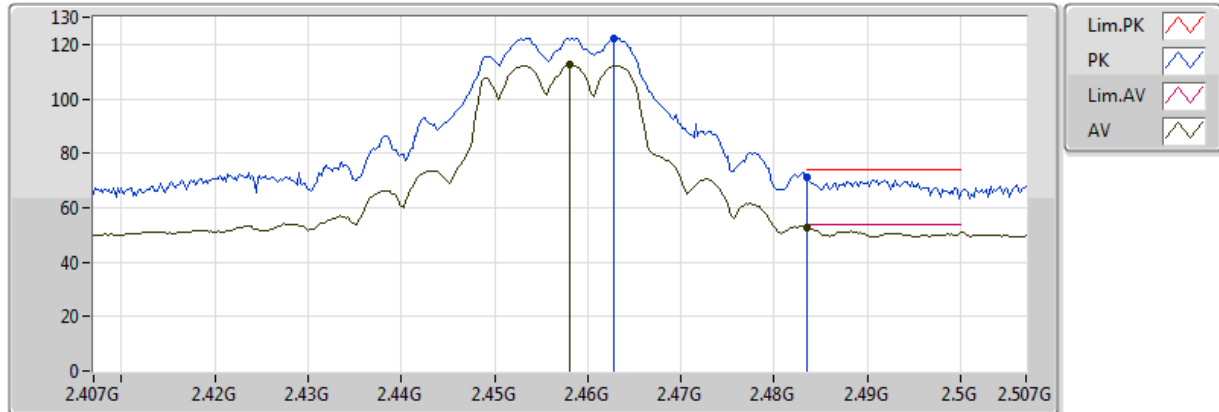
EUT Y_2TX (Omni-Directional ANT)
Setting 18.5
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.4586G	122.81	Inf	-Inf	31.73	3	Vertical	358	1.69	
AV	2.4536G	112.97	Inf	-Inf	31.72	3	Vertical	358	1.69	
PK	2.484G	71.14	74.00	-2.86	31.80	3	Vertical	358	1.69	
AV	2.4836G	52.61	54.00	-1.39	31.80	3	Vertical	358	1.69	

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

09/05/2018



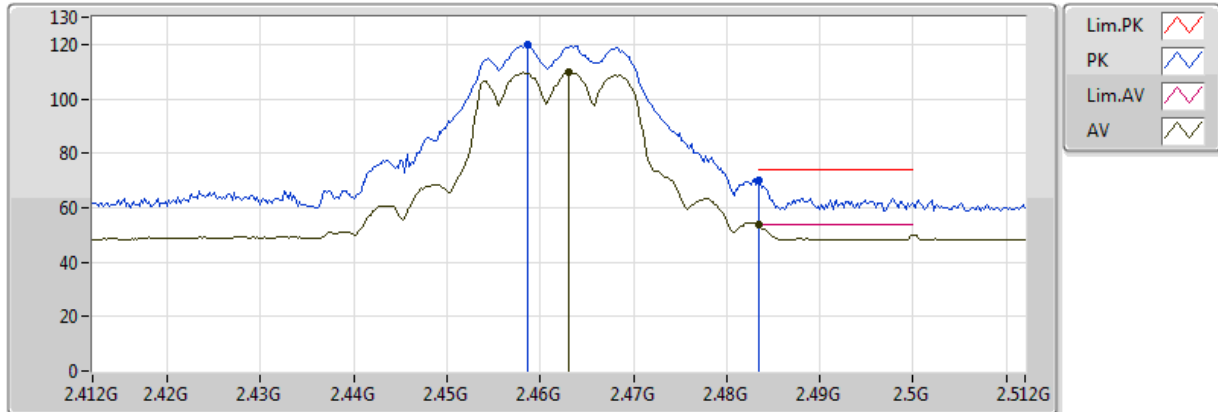
EUT Y_2TX (Omni-Directional ANT)
Setting 18
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.4628G	122.38	Inf	-Inf	31.75	3	Vertical	359	1.66	
AV	2.458G	112.60	Inf	-Inf	31.73	3	Vertical	359	1.66	
PK	2.483502G	71.08	74.00	-2.92	31.80	3	Vertical	359	1.66	
AV	2.483502G	52.83	54.00	-1.17	31.80	3	Vertical	359	1.66	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

09/05/2018



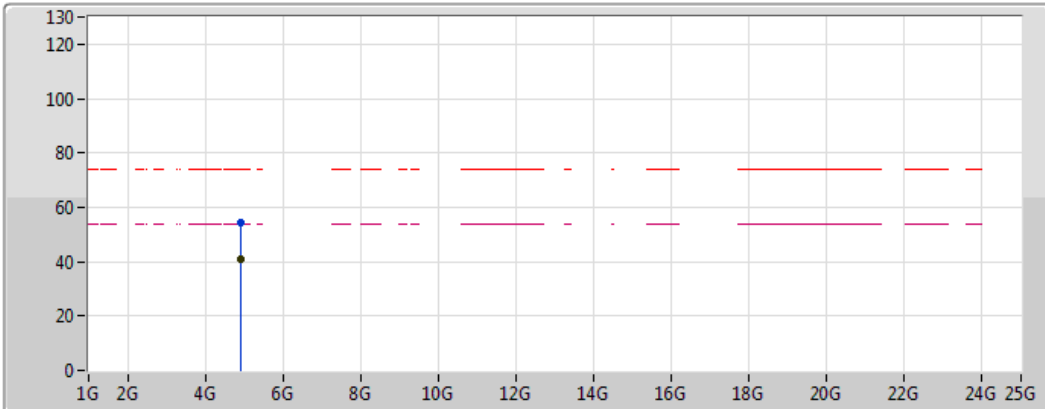
EUT Y_2TX (Omni-Directional ANT)
Setting 15
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.4586G	119.88	Inf	-Inf	31.73	3	Vertical	1	1.65	
AV	2.463G	109.81	Inf	-Inf	31.75	3	Vertical	1	1.65	
PK	2.483502G	70.06	74.00	-3.94	31.80	3	Vertical	1	1.65	
AV	2.483502G	53.76	54.00	-0.24	31.80	3	Vertical	1	1.65	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

09/05/2018



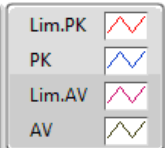
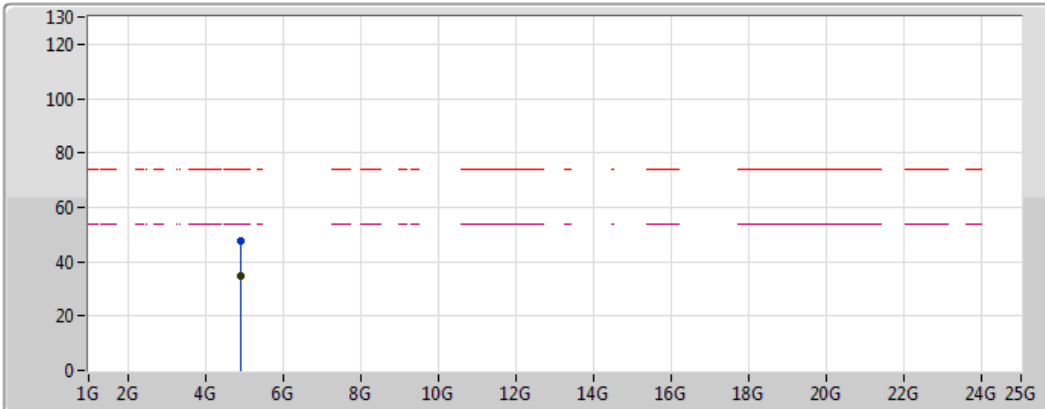
EUT Y_2TX (Omni-Directional ANT)
Setting 15
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.9186G	54.42	74.00	-19.58	7.75	3	Vertical	35	1.50	
AV	4.92404G	40.80	54.00	-13.20	7.76	3	Vertical	35	1.50	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

09/05/2018



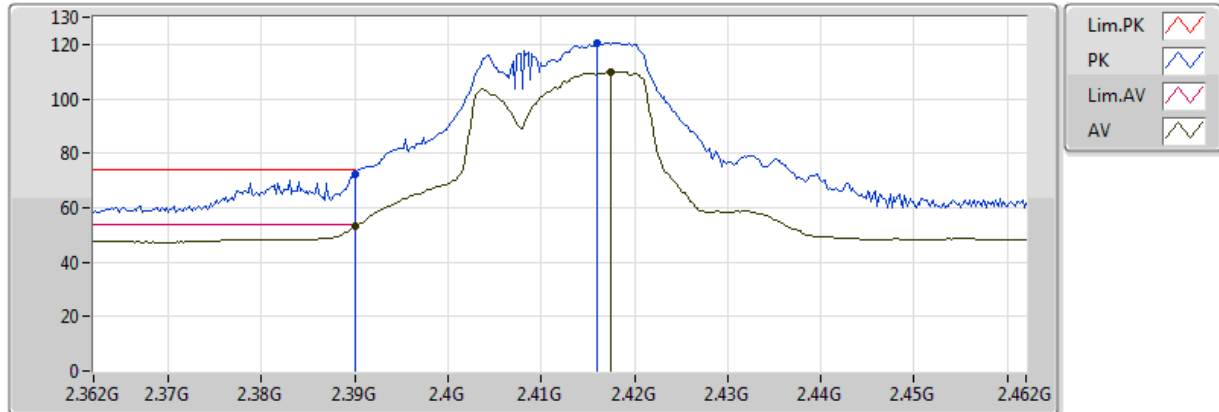
EUT Y_2TX (Omni-Directional ANT)
Setting 15
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.92404G	47.53	74.00	-26.47	7.76	3	Horizontal	202	1.49	
AV	4.9242G	34.91	54.00	-19.09	7.76	3	Horizontal	202	1.49	

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

09/05/2018



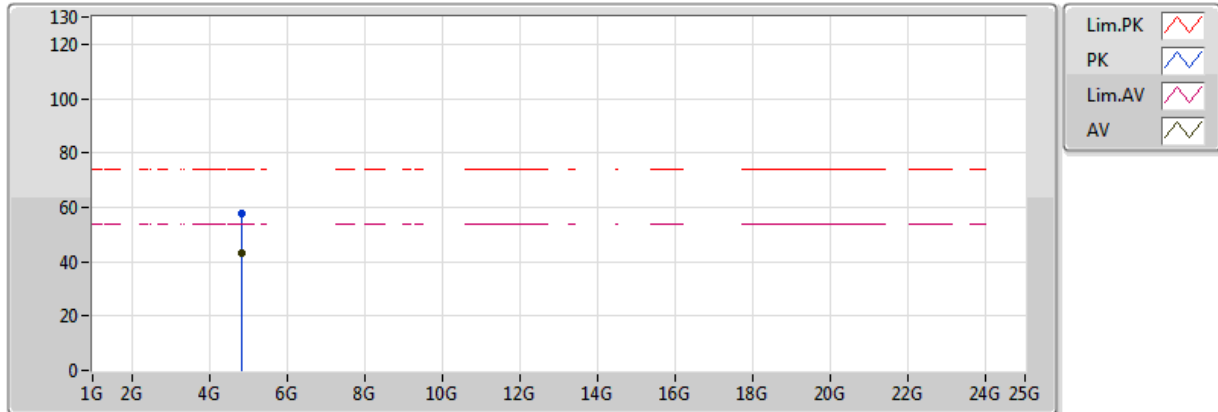
EUT Y_2TX (Omni-Directional ANT)
Setting 17
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.389998G	72.39	74.00	-1.61	31.56	3	Vertical	360	1.65	
AV	2.389998G	53.00	54.00	-1.00	31.56	3	Vertical	360	1.65	
PK	2.416G	120.72	Inf	-Inf	31.63	3	Vertical	360	1.65	
AV	2.4174G	110.10	Inf	-Inf	31.63	3	Vertical	360	1.65	

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

09/05/2018



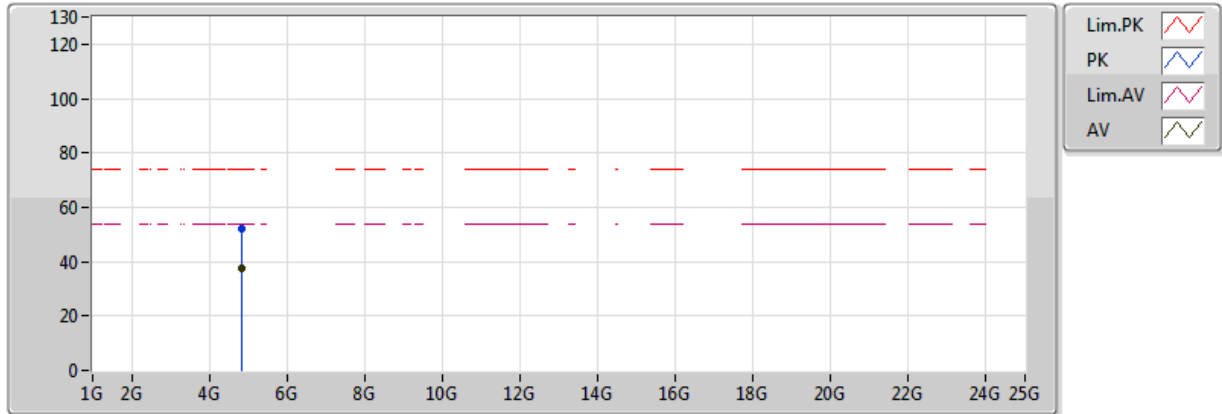
EUT Y_2TX (Omni-Directional ANT)
Setting 17
04-M-01
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.82652G	57.90	74.00	-16.10	3.75	3	Vertical	19	1.50	
AV	4.8237G	43.24	54.00	-10.76	3.74	3	Vertical	19	1.50	

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

09/05/2018



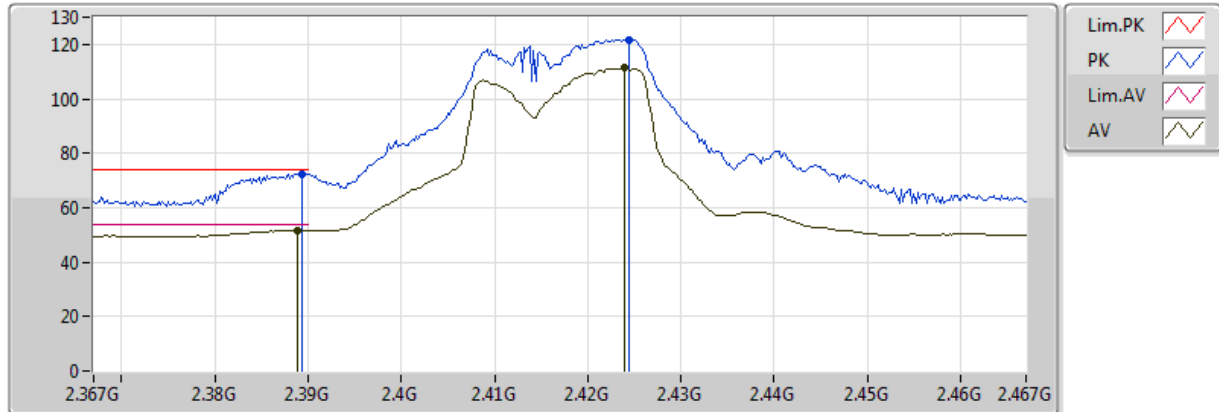
EUT Y_2TX (Omni-Directional ANT)
Setting 17
04-M-01
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.82652G	52.39	74.00	-21.61	3.75	3	Horizontal	8	1.63	
AV	4.824G	37.36	54.00	-16.64	3.74	3	Horizontal	8	1.63	

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

09/05/2018



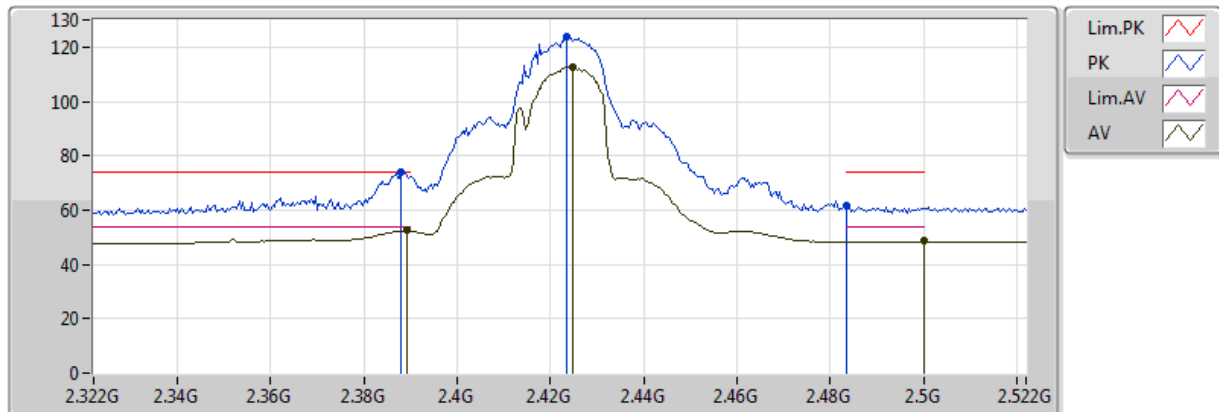
EUT Y_2TX (Omni-Directional ANT)
Setting 18
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3894G	72.46	74.00	-1.54	31.56	3	Vertical	352	1.60	
AV	2.3888G	51.64	54.00	-2.36	31.56	3	Vertical	352	1.60	
PK	2.4244G	121.82	Inf	-Inf	31.65	3	Vertical	352	1.60	
AV	2.424G	111.26	Inf	-Inf	31.65	3	Vertical	352	1.60	

802.11n HT20_Nss1,(MCS0)_2TX

2422MHz_TX

09/05/2018



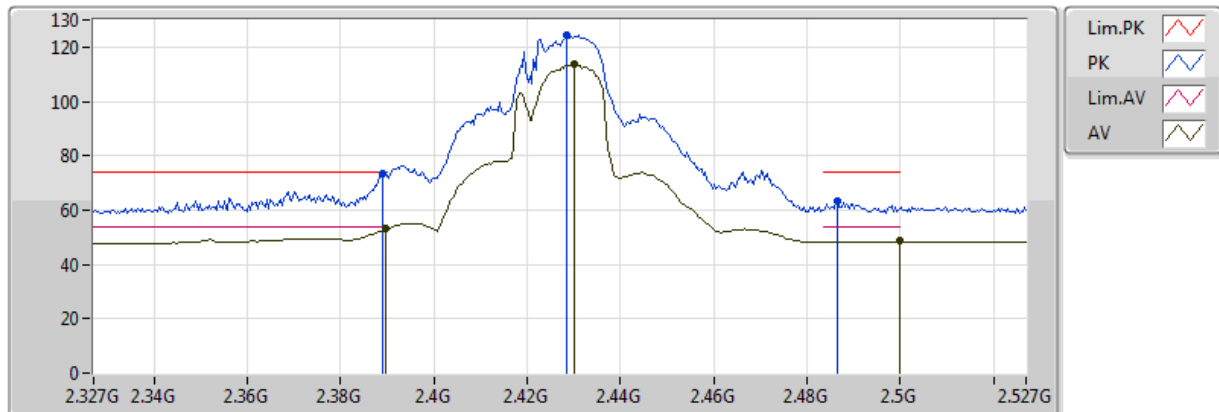
EUT Y_2TX (Omni-Directional ANT)
Setting 19.5
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.388G	73.92	74.00	-0.08	31.56	3	Vertical	10	1.64	
AV	2.3892G	52.47	54.00	-1.53	31.56	3	Vertical	10	1.64	
PK	2.4236G	123.91	Inf	-Inf	31.65	3	Vertical	10	1.64	
AV	2.4248G	112.85	Inf	-Inf	31.65	3	Vertical	10	1.64	
PK	2.483502G	61.45	74.00	-12.55	31.80	3	Vertical	10	1.64	
AV	2.499998G	48.93	54.00	-5.07	31.84	3	Vertical	10	1.64	

802.11n HT20_Nss1,(MCS0)_2TX

2427MHz_TX

09/05/2018



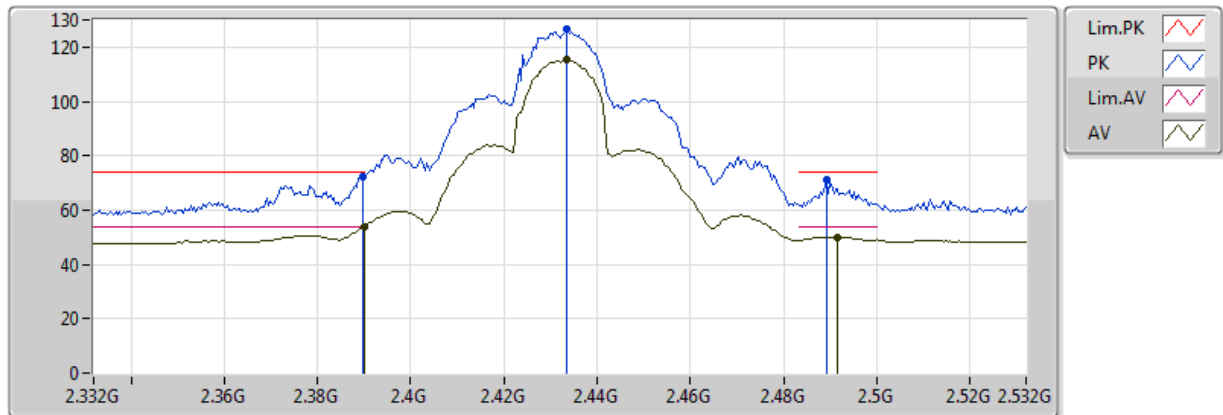
EUT Y_2TX (Omni-Directional ANT)
Setting 20.5
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.389G	73.59	74.00	-0.41	31.56	3	Vertical	7	1.59	
AV	2.3898G	53.18	54.00	-0.82	31.56	3	Vertical	7	1.59	
PK	2.4286G	124.64	Inf	-Inf	31.66	3	Vertical	7	1.59	
AV	2.4302G	113.58	Inf	-Inf	31.66	3	Vertical	7	1.59	
PK	2.4866G	63.45	74.00	-10.55	31.81	3	Vertical	7	1.59	
AV	2.4998G	48.62	54.00	-5.38	31.84	3	Vertical	7	1.59	

802.11n HT20_Nss1,(MCS0)_2TX

2432MHz_TX

09/05/2018



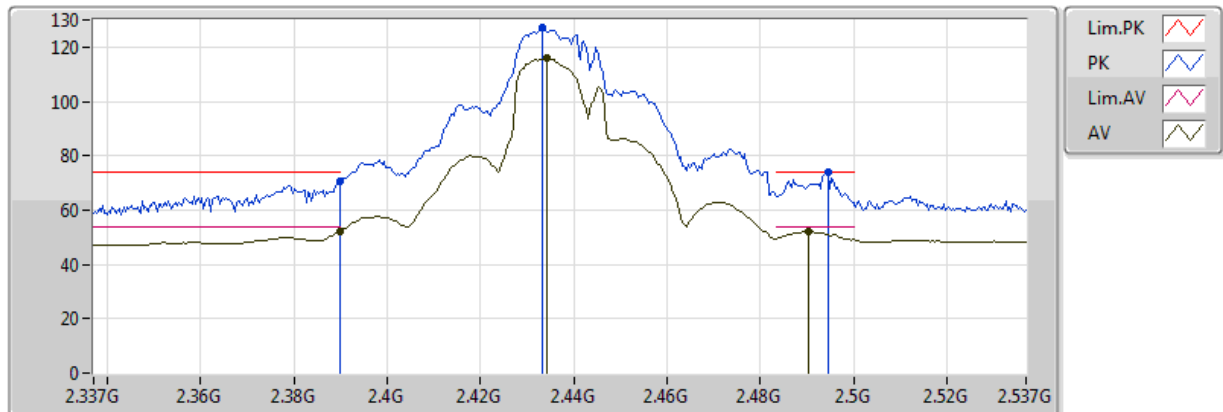
EUT Y_2TX (Omni-Directional ANT)
Setting 22.5
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3896G	72.26	74.00	-1.74	31.56	3	Vertical	12	1.63	
AV	2.389998G	53.95	54.00	-0.05	31.56	3	Vertical	12	1.63	
PK	2.4336G	126.76	Inf	-Inf	31.67	3	Vertical	12	1.63	
AV	2.4336G	115.21	Inf	-Inf	31.67	3	Vertical	12	1.63	
PK	2.4892G	71.33	74.00	-2.67	31.81	3	Vertical	12	1.63	
AV	2.4916G	50.12	54.00	-3.88	31.81	3	Vertical	12	1.63	

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

09/05/2018



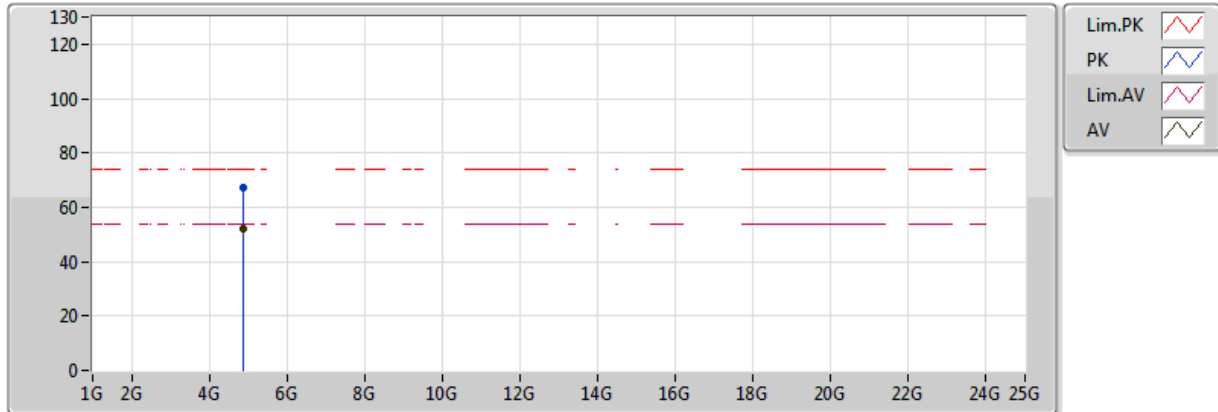
EUT Y_2TX (Omni-Directional ANT)
Setting 23
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3898G	70.66	74.00	-3.34	31.56	3	Vertical	17	1.69	
AV	2.3898G	52.15	54.00	-1.85	31.56	3	Vertical	17	1.69	
PK	2.4334G	127.03	Inf	-Inf	31.67	3	Vertical	17	1.69	
AV	2.4342G	115.89	Inf	-Inf	31.67	3	Vertical	17	1.69	
PK	2.4946G	73.70	74.00	-0.30	31.82	3	Vertical	17	1.69	
AV	2.4902G	52.11	54.00	-1.89	31.81	3	Vertical	17	1.69	

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

09/05/2018



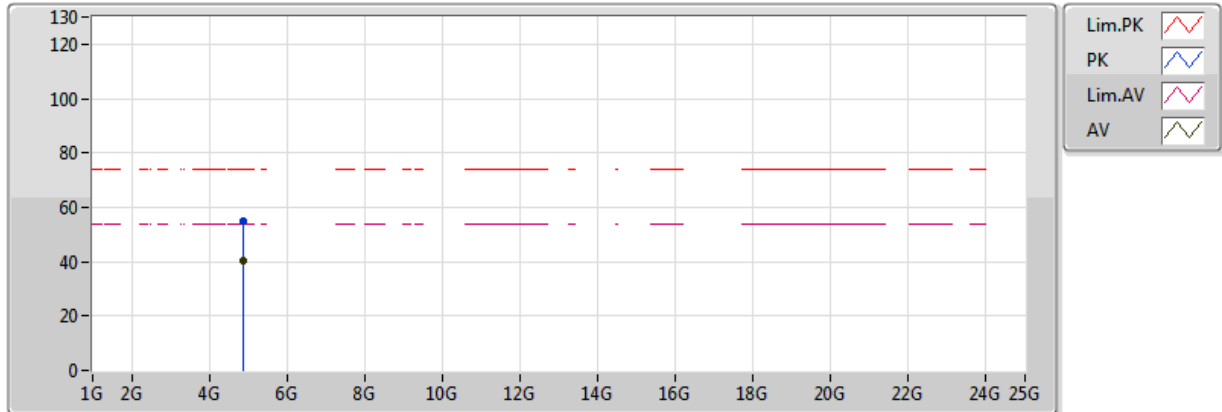
EUT Y_2TX (Omni-Directional ANT)
Setting 23
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.8722G	67.38	74.00	-6.62	3.86	3	Vertical	20	1.50	
AV	4.8741G	51.98	54.00	-2.02	3.87	3	Vertical	20	1.50	

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

09/05/2018



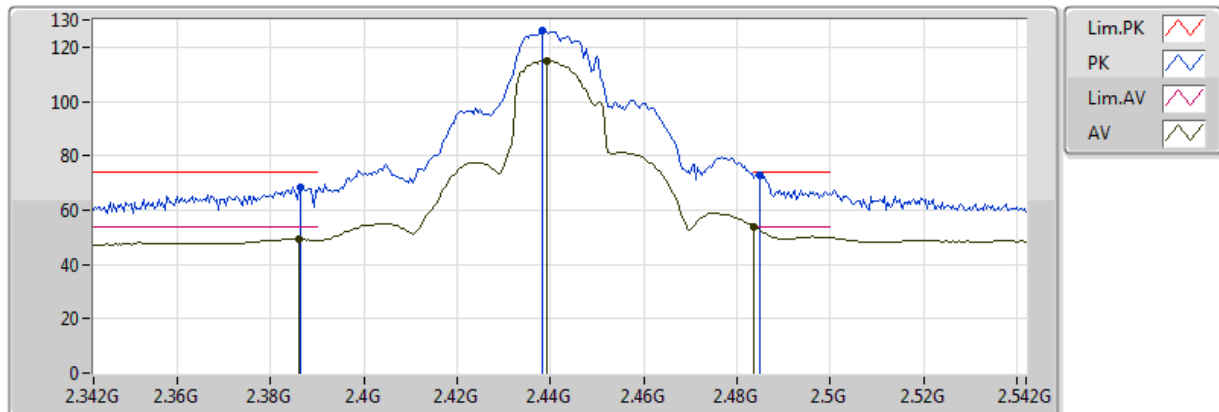
EUT Y_2TX (Omni-Directional ANT)
Setting 23
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.8665G	54.89	74.00	-19.11	3.85	3	Horizontal	19	1.87	
AV	4.8776G	40.42	54.00	-13.58	3.87	3	Horizontal	19	1.87	

802.11n HT20_Nss1,(MCS0)_2TX

2442MHz_TX

09/05/2018



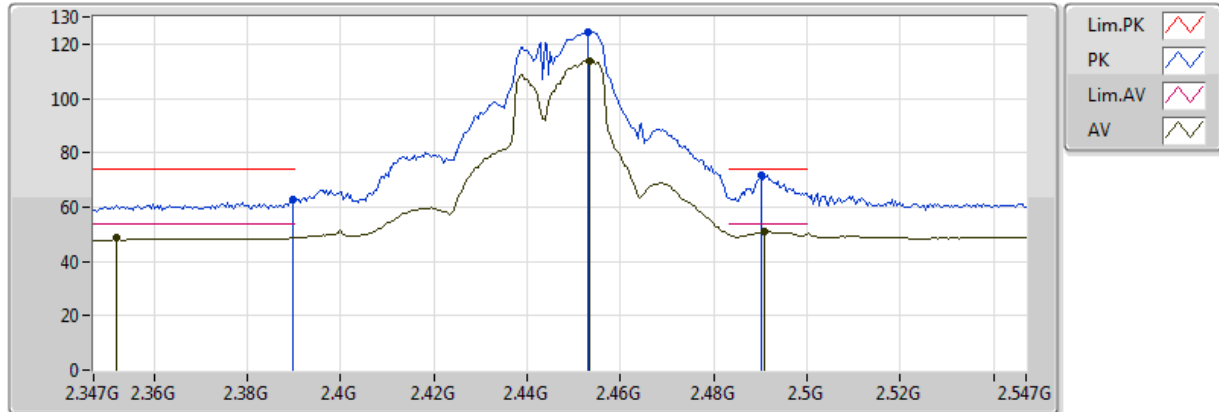
EUT Y_2TX (Omni-Directional ANT)
Setting 21.5
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3864G	68.48	74.00	-5.52	31.55	3	Vertical	14	1.72	
AV	2.386G	49.30	54.00	-4.70	31.55	3	Vertical	14	1.72	
PK	2.4384G	126.20	Inf	-Inf	31.68	3	Vertical	14	1.72	
AV	2.4392G	115.12	Inf	-Inf	31.69	3	Vertical	14	1.72	
PK	2.4848G	73.04	74.00	-0.96	31.80	3	Vertical	14	1.72	
AV	2.483502G	53.83	54.00	-0.17	31.80	3	Vertical	14	1.72	

802.11n HT20_Nss1,(MCS0)_2TX

2447MHz_TX

09/05/2018



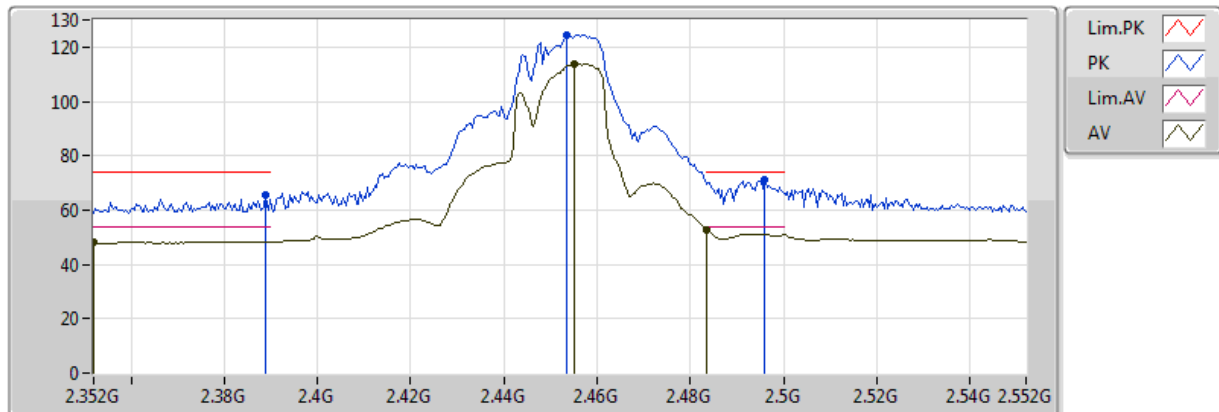
EUT Y_2TX (Omni-Directional ANT)
Setting 20.5
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3898G	62.80	74.00	-11.20	31.56	3	Vertical	359	1.68	
AV	2.3518G	48.62	54.00	-5.38	31.46	3	Vertical	359	1.68	
PK	2.453G	124.28	Inf	-Inf	31.72	3	Vertical	359	1.68	
AV	2.4534G	113.69	Inf	-Inf	31.72	3	Vertical	359	1.68	
PK	2.4902G	71.93	74.00	-2.07	31.81	3	Vertical	359	1.68	
AV	2.491G	50.85	54.00	-3.15	31.81	3	Vertical	359	1.68	

802.11n HT20_Nss1,(MCS0)_2TX

2452MHz_TX

09/05/2018



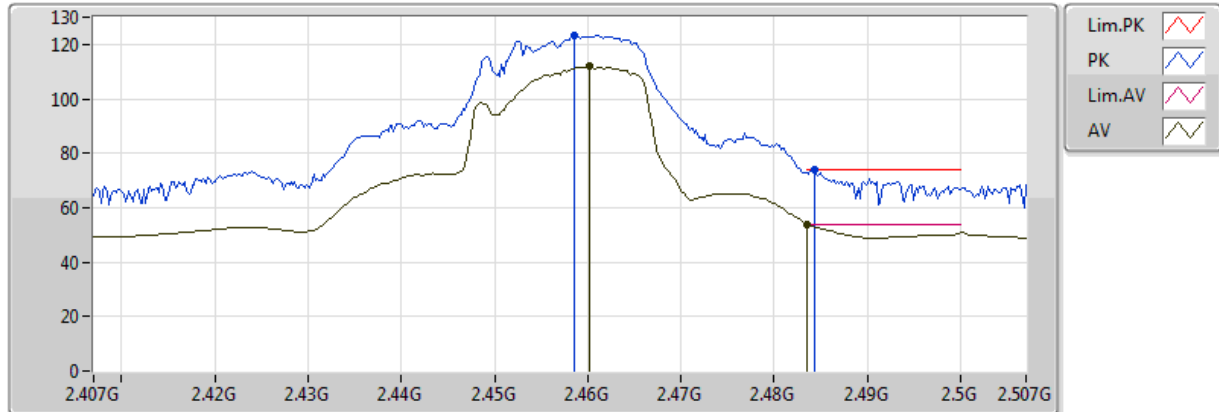
EUT Y_2TX (Omni-Directional ANT)
Setting 20
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3888G	65.64	74.00	-8.36	31.56	3	Vertical	360	1.69	
AV	2.352G	48.43	54.00	-5.57	31.46	3	Vertical	360	1.69	
PK	2.4536G	124.59	Inf	-Inf	31.72	3	Vertical	360	1.69	
AV	2.4552G	113.86	Inf	-Inf	31.73	3	Vertical	360	1.69	
PK	2.496G	71.16	74.00	-2.84	31.83	3	Vertical	360	1.69	
AV	2.483502G	52.79	54.00	-1.21	31.80	3	Vertical	360	1.69	

802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

09/05/2018



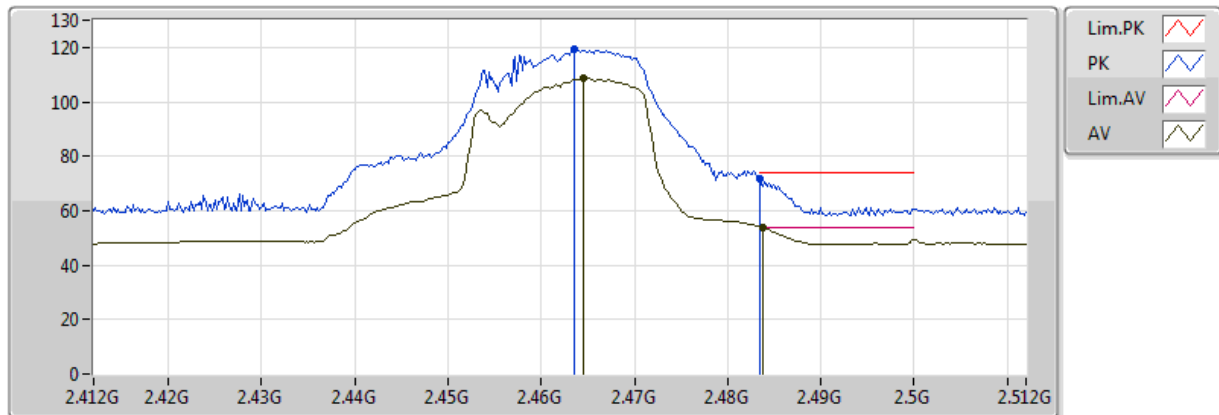
EUT Y_2TX (Omni-Directional ANT)
Setting 18.5
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.4586G	123.51	Inf	-Inf	31.73	3	Vertical	358	1.67	
AV	2.4602G	111.83	Inf	-Inf	31.74	3	Vertical	358	1.67	
PK	2.4844G	73.98	74.00	-0.02	31.80	3	Vertical	358	1.67	
AV	2.483502G	53.95	54.00	-0.05	31.80	3	Vertical	358	1.67	

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

09/05/2018



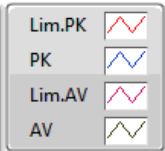
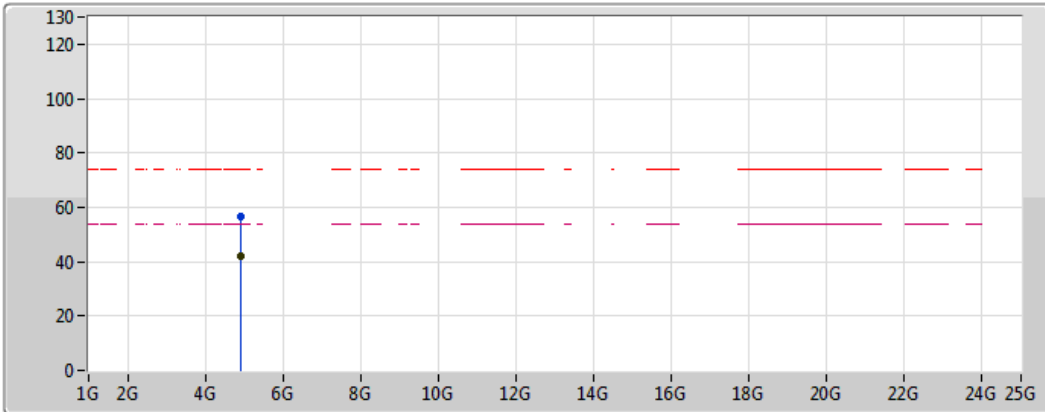
EUT Y_2TX (Omni-Directional ANT)
Setting 14.5
02-J-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.4636G	119.43	Inf	-Inf	31.75	3	Vertical	2	1.61	
AV	2.4646G	108.47	Inf	-Inf	31.75	3	Vertical	2	1.61	
PK	2.483502G	71.99	74.00	-2.01	31.80	3	Vertical	2	1.61	
AV	2.4838G	53.92	54.00	-0.08	31.80	3	Vertical	2	1.61	

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

09/05/2018



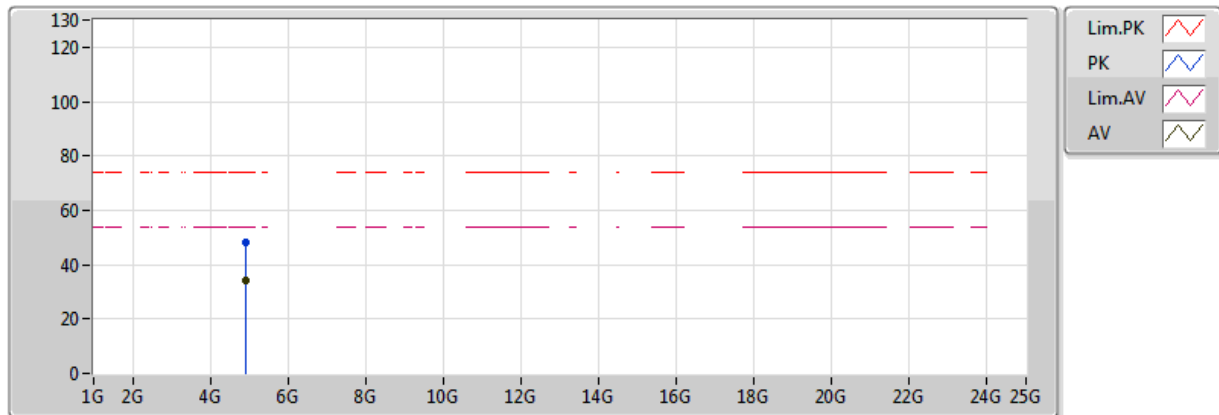
EUT Y_2TX (Omni-Directional ANT)
Setting 14.5
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.922G	56.81	74.00	-17.19	3.99	3	Vertical	54	1.67	
AV	4.924G	41.83	54.00	-12.17	3.99	3	Vertical	54	1.67	

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

09/05/2018



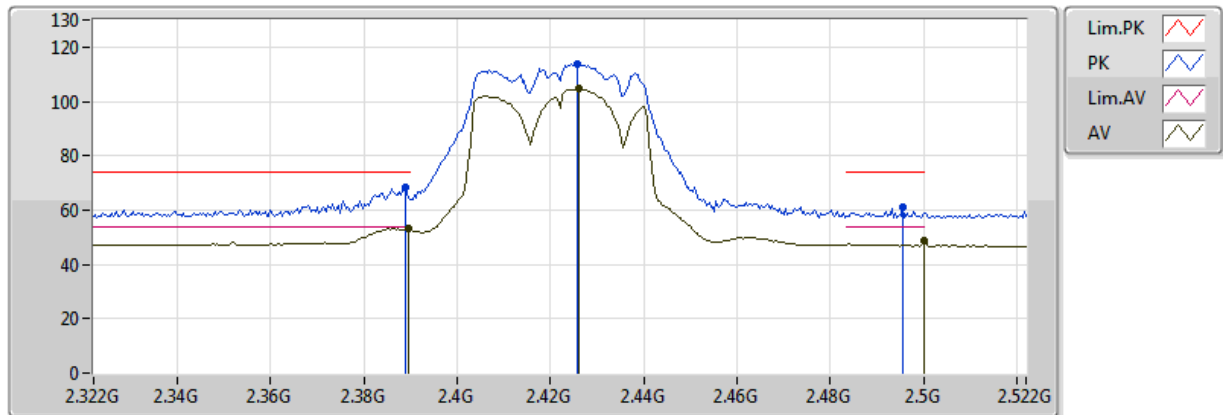
EUT Y_2TX (Omni-Directional ANT)
Setting 14.5
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.9254G	48.25	74.00	-25.75	3.99	3	Horizontal	23	1.01	
AV	4.9268G	33.96	54.00	-20.04	4.00	3	Horizontal	23	1.01	

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

09/05/2018



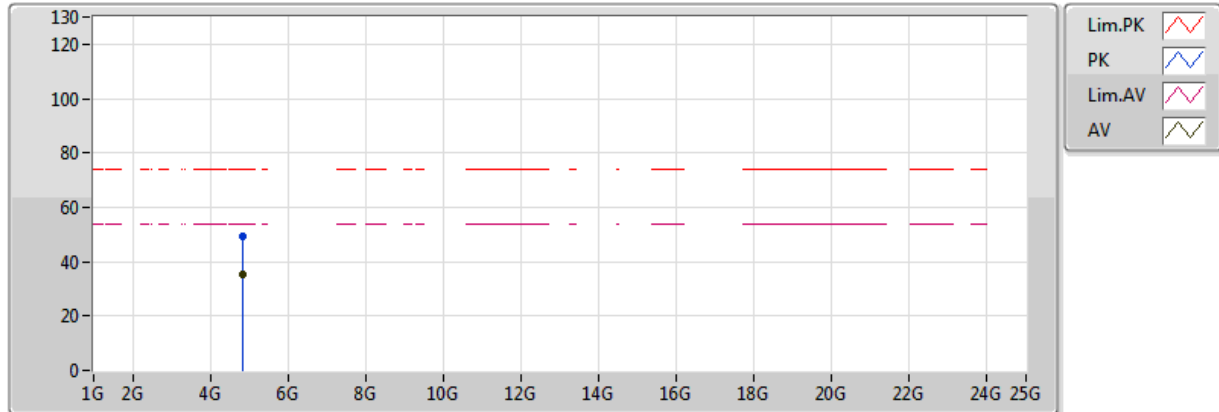
EUT Y_2TX (Omni-Directional ANT)
Setting 13
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3888G	68.30	74.00	-5.70	33.17	3	Vertical	359	1.50	
AV	2.3896G	53.15	54.00	-0.85	33.17	3	Vertical	359	1.50	
PK	2.4256G	113.87	Inf	-Inf	33.18	3	Vertical	359	1.50	
AV	2.426G	104.56	Inf	-Inf	33.18	3	Vertical	359	1.50	
PK	2.4956G	60.88	74.00	-13.12	33.19	3	Vertical	359	1.50	
AV	2.499998G	48.71	54.00	-5.29	33.19	3	Vertical	359	1.50	

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

09/05/2018



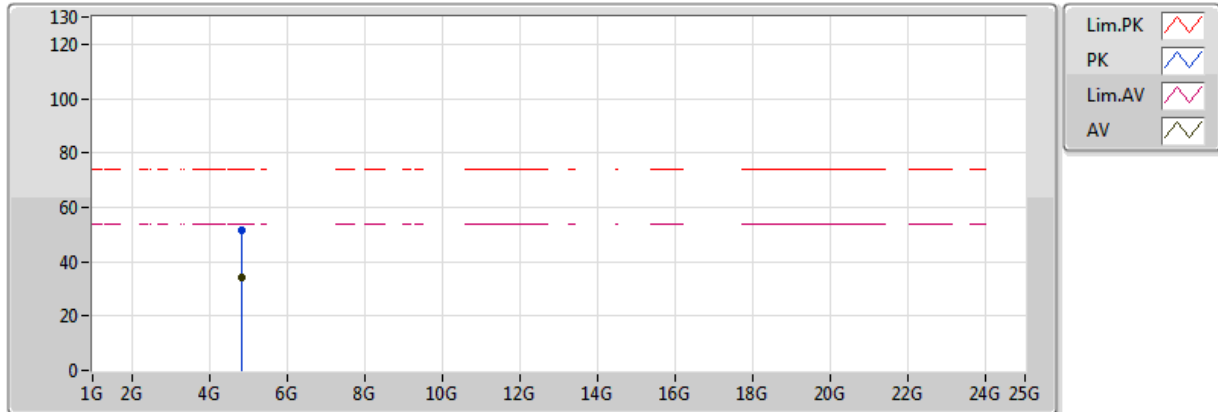
EUT Y_2TX (Omni-Directional ANT)
Setting 13
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.84192G	49.50	74.00	-24.50	3.78	3	Vertical	18	1.46	
AV	4.84348G	35.44	54.00	-18.56	3.79	3	Vertical	18	1.46	

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

09/05/2018



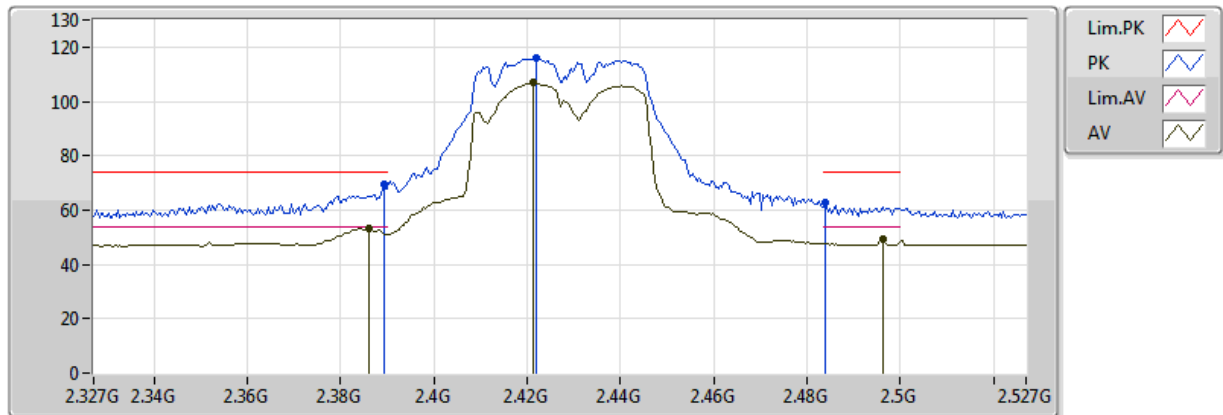
EUT Y_2TX (Omni-Directional ANT)
Setting 13
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.84624G	51.39	74.00	-22.61	3.80	3	Horizontal	6	2.94	
AV	4.84356G	34.45	54.00	-19.55	3.79	3	Horizontal	6	2.94	

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

09/05/2018



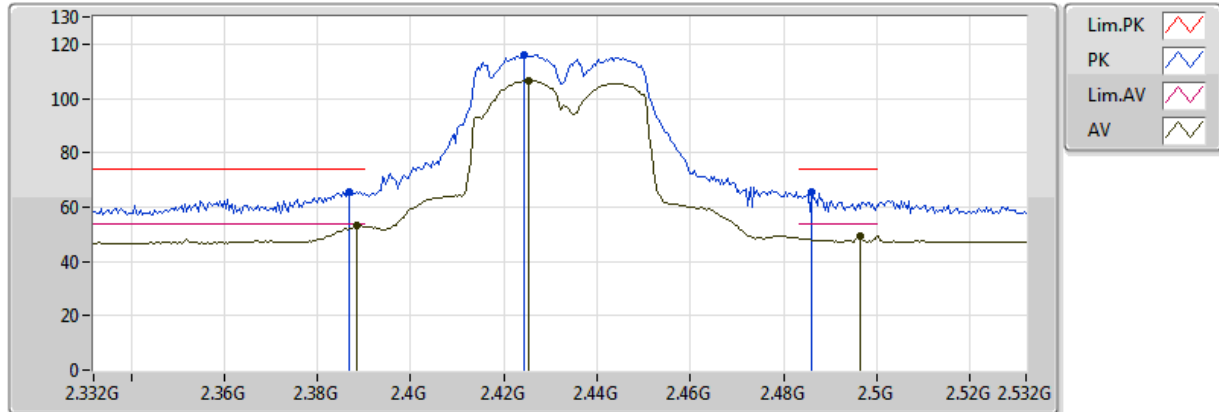
EUT Y_2TX (Omni-Directional ANT)
Setting 14.5
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3894G	69.50	74.00	-4.50	33.17	3	Vertical	20	1.59	
AV	2.3862G	53.25	54.00	-0.75	33.16	3	Vertical	20	1.59	
PK	2.4218G	116.21	Inf	-Inf	33.17	3	Vertical	20	1.59	
AV	2.4214G	106.76	Inf	-Inf	33.17	3	Vertical	20	1.59	
PK	2.4838G	62.69	74.00	-11.31	33.18	3	Vertical	20	1.59	
AV	2.4962G	49.46	54.00	-4.54	33.19	3	Vertical	20	1.59	

802.11n HT40_Nss1,(MCS0)_2TX

2432MHz_TX

09/05/2018



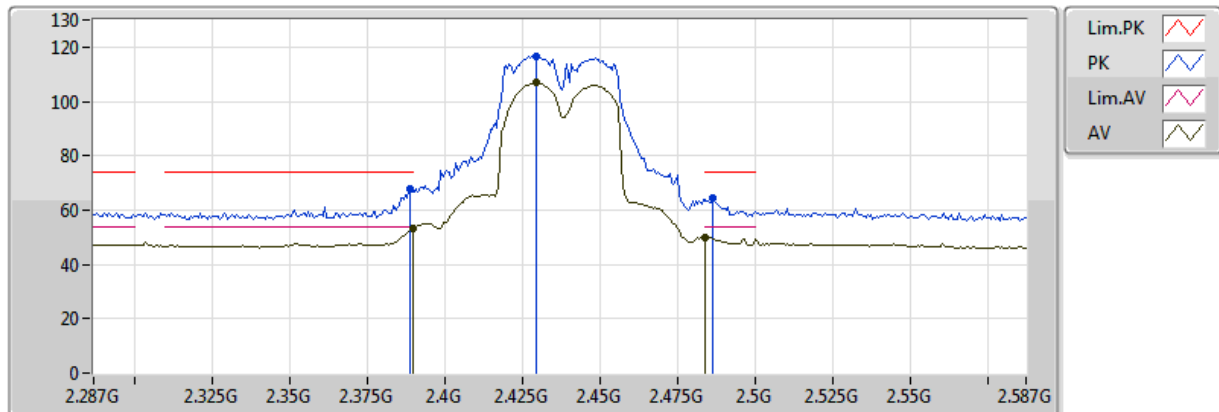
EUT Y_2TX (Omni-Directional ANT)
Setting 14.5
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3868G	65.50	74.00	-8.50	33.16	3	Vertical	23	1.62	
AV	2.3884G	53.09	54.00	-0.91	33.17	3	Vertical	23	1.62	
PK	2.4244G	115.94	Inf	-Inf	33.17	3	Vertical	23	1.62	
AV	2.4252G	106.73	Inf	-Inf	33.18	3	Vertical	23	1.62	
PK	2.486G	65.34	74.00	-8.66	33.19	3	Vertical	23	1.62	
AV	2.4964G	49.46	54.00	-4.54	33.19	3	Vertical	23	1.62	

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

09/05/2018



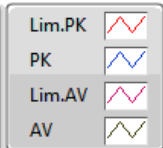
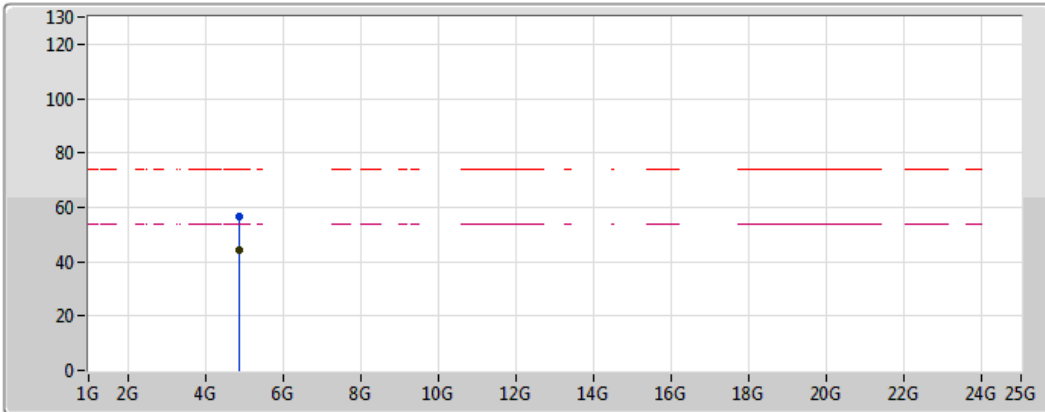
EUT Y_2TX (Omni-Directional ANT)
Setting 15.5
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.389G	67.86	74.00	-6.14	33.17	3	Vertical	26	1.63	
AV	2.389998G	53.34	54.00	-0.66	33.17	3	Vertical	26	1.63	
PK	2.4292G	116.67	Inf	-Inf	33.18	3	Vertical	26	1.63	
AV	2.4292G	106.84	Inf	-Inf	33.18	3	Vertical	26	1.63	
PK	2.4862G	64.30	74.00	-9.70	33.19	3	Vertical	26	1.63	
AV	2.4838G	50.11	54.00	-3.89	33.18	3	Vertical	26	1.63	

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

09/05/2018



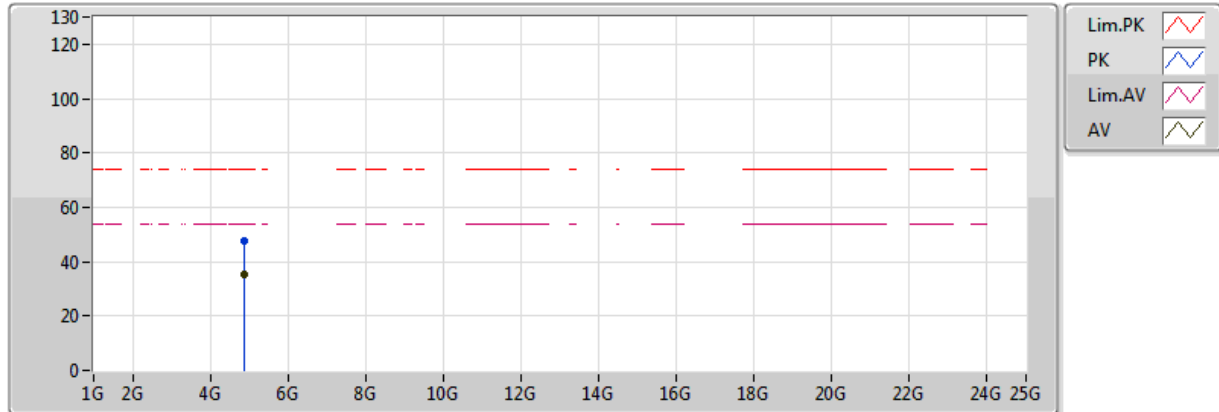
EUT Y_2TX (Omni-Directional ANT)
Setting 15.5
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.8745G	56.61	74.00	-17.39	3.87	3	Vertical	23	1.61	
AV	4.8741G	44.01	54.00	-9.99	3.87	3	Vertical	23	1.61	

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

09/05/2018



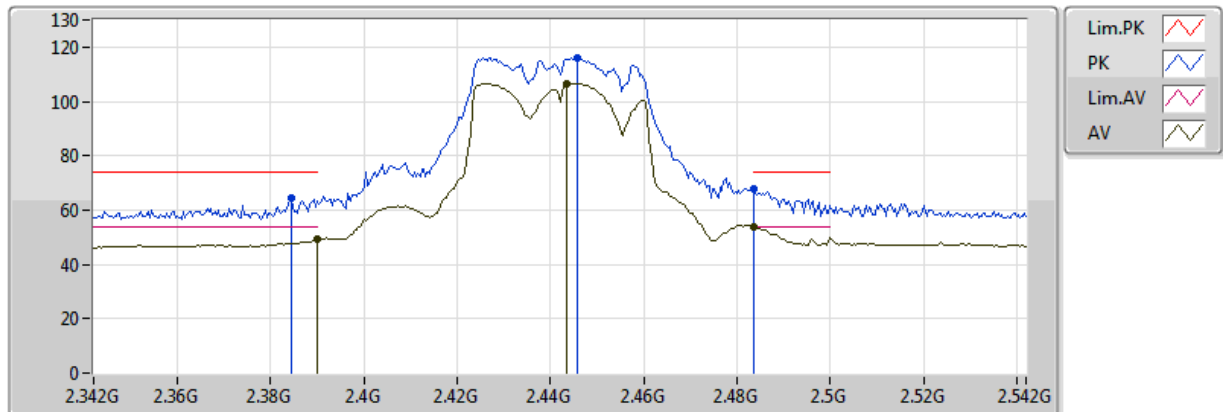
EUT Y_2TX (Omni-Directional ANT)
Setting 15.5
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.87412G	47.88	74.00	-26.12	3.87	3	Horizontal	6	1.62	
AV	4.874G	35.08	54.00	-18.92	3.87	3	Horizontal	6	1.62	

802.11n HT40_Nss1,(MCS0)_2TX

2442MHz_TX

09/05/2018



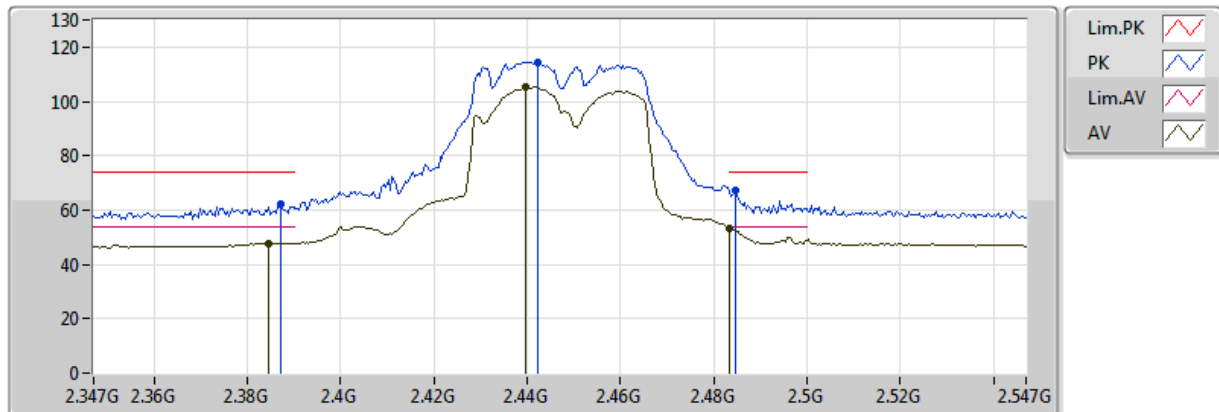
EUT Y_2TX (Omni-Directional ANT)
Setting 15
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3844G	64.45	74.00	-9.55	33.16	3	Vertical	21	1.67	
AV	2.389998G	49.23	54.00	-4.77	33.17	3	Vertical	21	1.67	
PK	2.4456G	116.08	Inf	-Inf	33.18	3	Vertical	21	1.67	
AV	2.4436G	106.65	Inf	-Inf	33.18	3	Vertical	21	1.67	
PK	2.483502G	67.79	74.00	-6.21	33.18	3	Vertical	21	1.67	
AV	2.483502G	53.78	54.00	-0.22	33.18	3	Vertical	21	1.67	

802.11n HT40_Nss1,(MCS0)_2TX

2447MHz_TX

09/05/2018



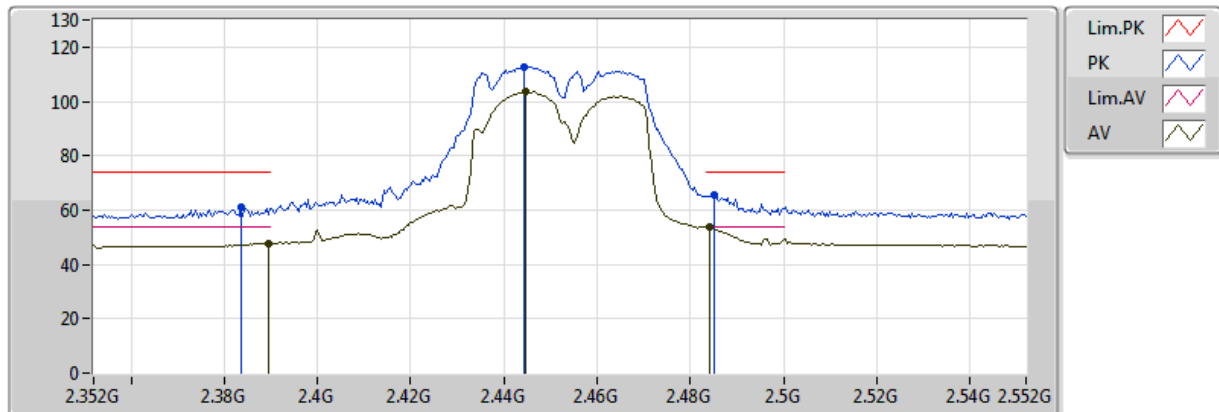
EUT Y_2TX (Omni-Directional ANT)
Setting 13.5
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.387G	62.03	74.00	-11.97	33.16	3	Vertical	21	1.60	
AV	2.3846G	47.79	54.00	-6.21	33.16	3	Vertical	21	1.60	
PK	2.4422G	114.56	Inf	-Inf	33.18	3	Vertical	21	1.60	
AV	2.4398G	105.36	Inf	-Inf	33.18	3	Vertical	21	1.60	
PK	2.4846G	67.32	74.00	-6.68	33.18	3	Vertical	21	1.60	
AV	2.483502G	53.47	54.00	-0.53	33.18	3	Vertical	21	1.60	

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

09/05/2018



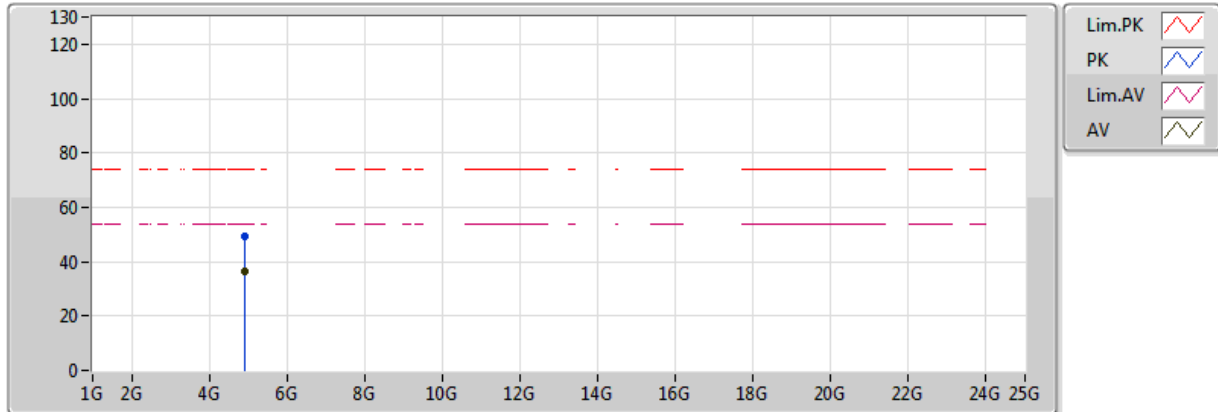
EUT Y_2TX (Omni-Directional ANT)
Setting 12
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	2.3836G	60.97	74.00	-13.03	33.16	3	Vertical	18	1.60	
AV	2.3896G	47.73	54.00	-6.27	33.17	3	Vertical	18	1.60	
PK	2.4444G	112.83	Inf	-Inf	33.18	3	Vertical	18	1.60	
AV	2.4448G	103.59	Inf	-Inf	33.18	3	Vertical	18	1.60	
PK	2.4852G	65.34	74.00	-8.66	33.18	3	Vertical	18	1.60	
AV	2.484G	53.55	54.00	-0.45	33.18	3	Vertical	18	1.60	

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

09/05/2018



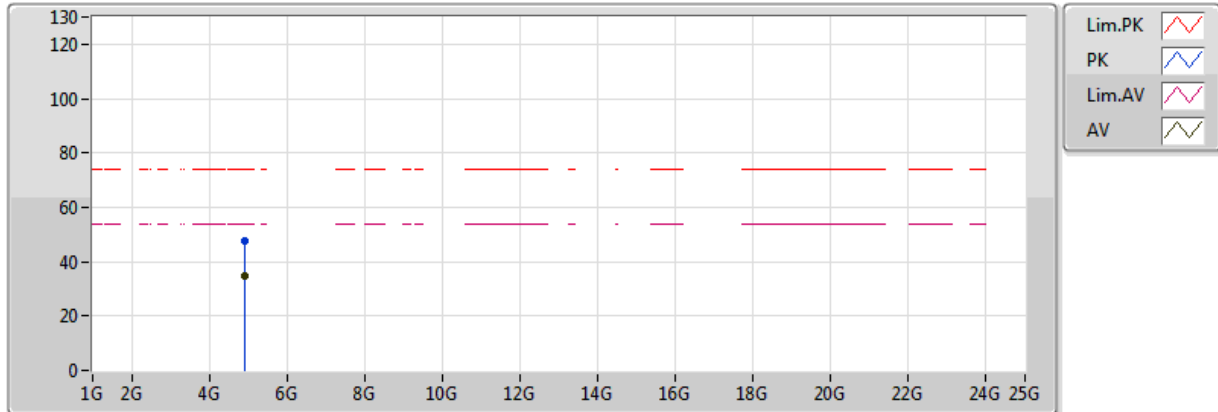
EUT Y_2TX (Omni-Directional ANT)
Setting 12
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.90528G	49.54	74.00	-24.46	3.94	3	Vertical	21	1.62	
AV	4.90428G	36.56	54.00	-17.44	3.94	3	Vertical	21	1.62	

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

09/05/2018



EUT Y_2TX (Omni-Directional ANT)
Setting 12
04-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	
PK	4.90412G	47.43	74.00	-26.57	3.94	3	Horizontal	352	2.50	
AV	4.90406G	34.69	54.00	-19.31	3.94	3	Horizontal	352	2.50	