



FCC RADIO TEST REPORT

FCC ID : Q87-03397
Equipment : Linksys EA7300 MAX-STREAM AC1750 MU-MIMO Gigabit Wi-Fi Router
Brand Name : LINKSYS
Model Name : EA7300 V2
Applicant : Linksys LLC
121 Theory, Drive Irvine CA 92617, United States
Standard : 47 CFR FCC Part 15.247

The product was received on Oct. 04, 2018, and testing was started from Oct. 04, 2018 and completed on Nov. 09, 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: Cliff Chang

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



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



Summary of Test Result

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

Declaration of Conformity:

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Comments and Explanations:

The "USB port" was performed test at the load by the applicant requirement.

Reviewed by: Sam Chen

Report Producer: Sandy Chuang



1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Port		Brand	P/N		Antenna Type	Connector	Gain (dBi)	
	2.4GHz	5GHz		2.4GHz	5GHz			2.4GHz	5GHz
1	2	1	FIT	4TS4009-A0003-JH	4TS4009-A0003-JH	Dipole	I-PEX	1.24	2.20
2	1	2	FIT	4TS4009-A0004-JH	4TS4009-A0004-JH	Dipole	I-PEX	1.20	2.10
3	-	3	FIT	-	4TS4009-A0005-JH	Dipole	I-PEX	-	1.85
4	-	4	FIT	-	4TS4009-A0006-JH	Dipole	I-PEX	-	2.82

Note: The EUT has four antennas.

<For 2.4GHz Band>

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

<For 5GHz Band>

For IEEE 802.11a/n/ac mode (4TX/4RX)

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.984	0.07	n/a (DC \geq 0.98)
802.11g	0.909	0.414	1.4m
802.11n HT20	0.896	0.477	1.31m
802.11n HT40	0.82	0.862	652.5u

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter		
Beamforming Function	<input checked="" type="checkbox"/> With beamforming	<input type="checkbox"/> Without beamforming	
	Note: The product has beamforming function for 802.11n/ac in 5GHz		
Function	<input checked="" type="checkbox"/> Point-to-multipoint	<input type="checkbox"/> Point-to-point	
Test Software Version	QA Tool_0.0.0.96		



1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 558074 D01 v05
- ♦ FCC KDB 662911 D01 v02r01

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	Eason Chen	23°C / 60%	Oct. 26, 2018~ Oct. 31, 2018
Radiated	03CH01-CB	Ekko Hsieh	22°C / 54%	Oct. 04, 2018~ Nov. 09, 2018
AC Conduction	CO01-CB	GN Hou	20°C / 60%	Nov. 01, 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	9.74×10^{-8}	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	PowerSetting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	26
2437MHz	26
2462MHz	26
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	1E
2417MHz	23
2422MHz	26
2427MHz	28
2437MHz	28
2447MHz	28
2452MHz	26
2457MHz	23
2462MHz	1A
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	1B
2417MHz	23
2422MHz	26
2427MHz	28
2437MHz	28
2442MHz	28
2447MHz	27
2452MHz	25
2457MHz	23
2462MHz	1B
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	16
2427MHz	19
2432MHz	1C
2437MHz	1E
2442MHz	1B
2447MHz	18
2452MHz	16

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	EUT + Adapter 1
2	EUT + Adapter 2
For operating mode 2 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

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
The EUT can be placed in Y-axis and Z-axis. EUT Y axis has been evaluated to be the worst case at Emissions in Restricted Frequency Bands <Above 1GHz>; thus, the measurement will follow this same test configuration.	
1	Place EUT in Y axis with Adapter 1
2	Place EUT in Y axis with Adapter 2
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT can be placed in Y-axis and Z-axis. After evaluating, "Y axis" generated the worst test result, So the measurement will follow this same test configuration.	
1	EUT Y axis



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz + WLAN 5GHz in Z axis
2	WLAN 2.4GHz + WLAN 5GHz in Y axis
For operating mode 2 is the worst case and it was record in this test report.	
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz+ WLAN 5GHz
Refer to Sporton Test Report No.: FA892642 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.



2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter 1	Ktec	KSA-24W-120200HU	Input: 100-240V~50/60Hz, 0.6A Output: 12V, 2.0A
Adapter 2	APD	WB-24J12FU	Input: 100-120V~50-60Hz, 0.7A Max. Output: 12V, 2A
Others			
RJ-45 Cable*1: Non-Shielded, 0.9m			

2.5 Support Equipment

For Test Site No: CO01-CB

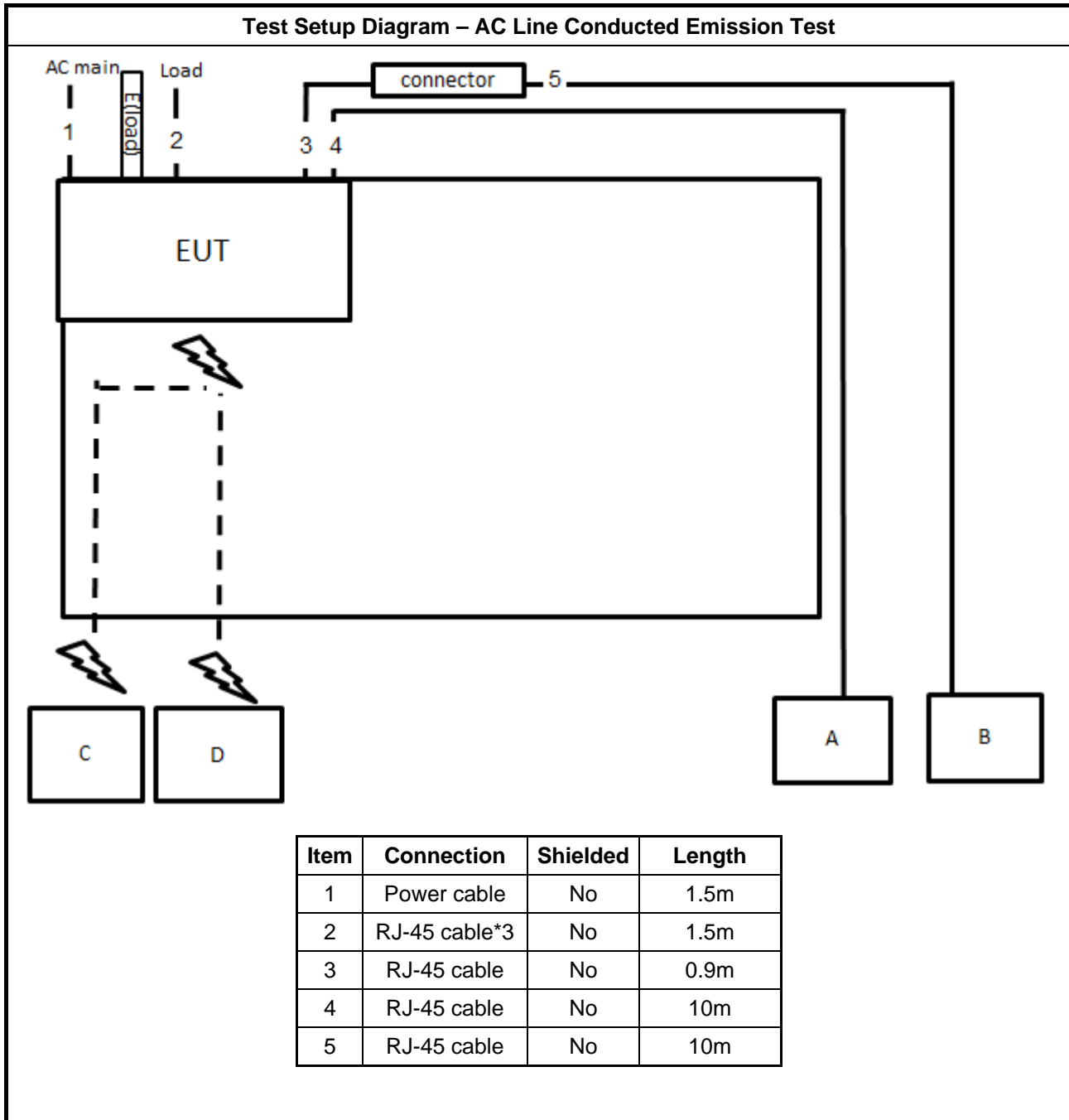
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A
B	WAN NB	DELL	E6430	N/A
C	2.4GHz NB	DELL	E6430	N/A
D	5GHz NB	DELL	E6430	N/A
E	Flash disk3.0	Transcend	639205 7755	N/A

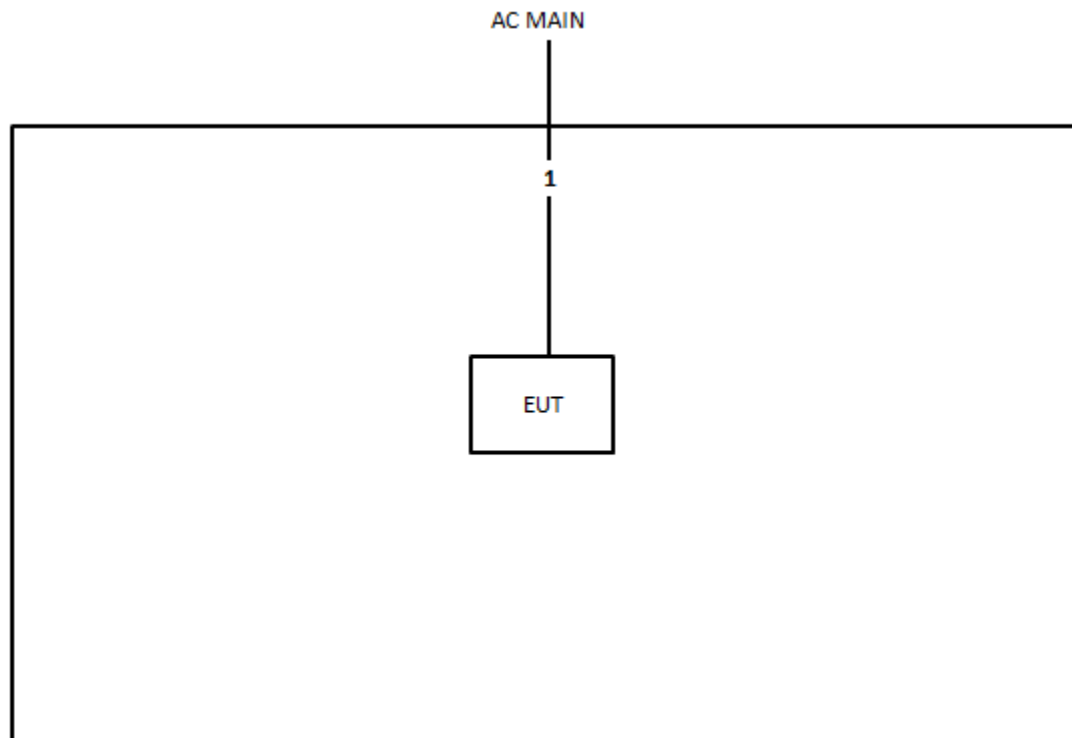
For Test Site No: 03CH01-CB (below 1GHz): N/A

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

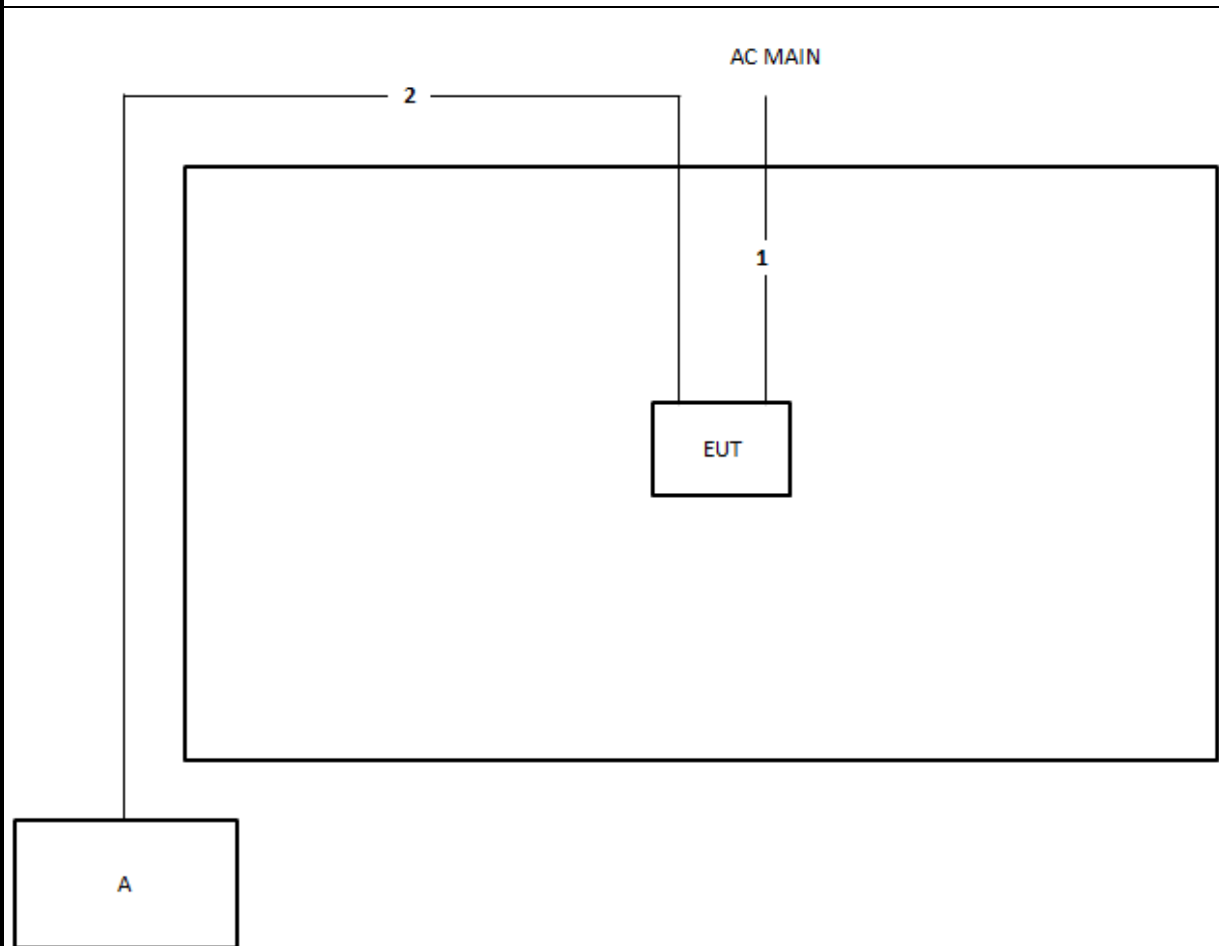
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

2.6 Test Setup Diagram



**Test Setup Diagram - Radiated Test < 1GHz**

Item	Connection	Shielded	Length
1	Power cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz


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



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.

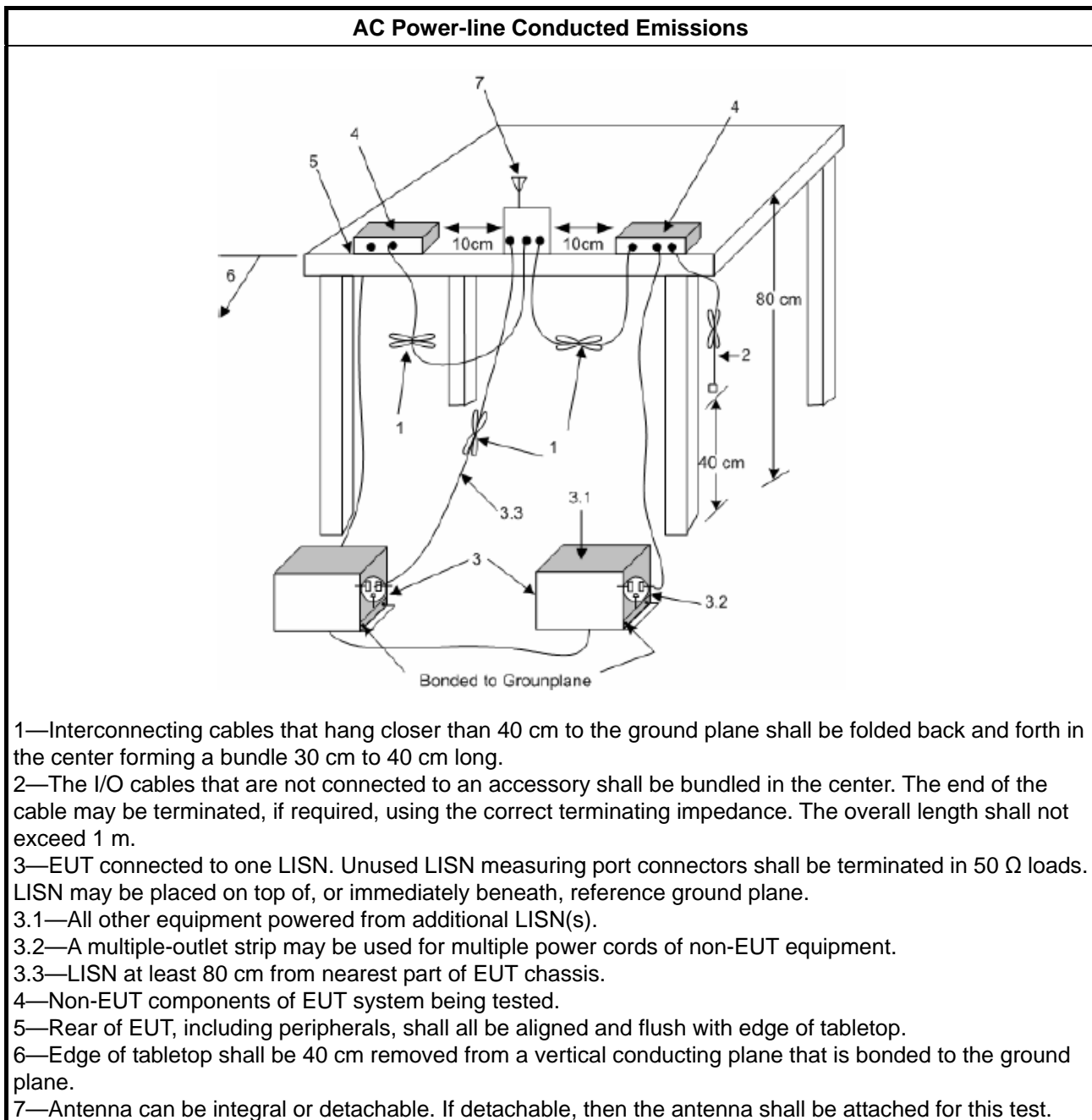
3.1.2 Measuring Instruments

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.

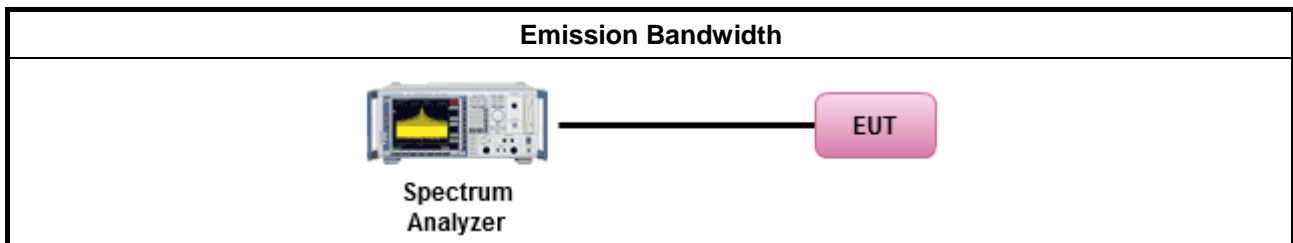
3.2.2 Measuring Instruments

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 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	▪ 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.	

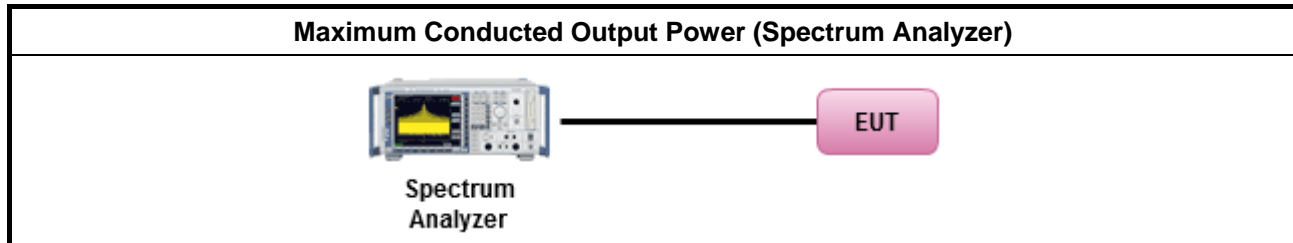
3.3.2 Measuring Instruments

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

**3.3.3 Test Procedures**

Test Method	
▪ Maximum Peak Conducted Output Power	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
▪ Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
▪ For conducted measurement.	
▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

3.4.2 Measuring Instruments

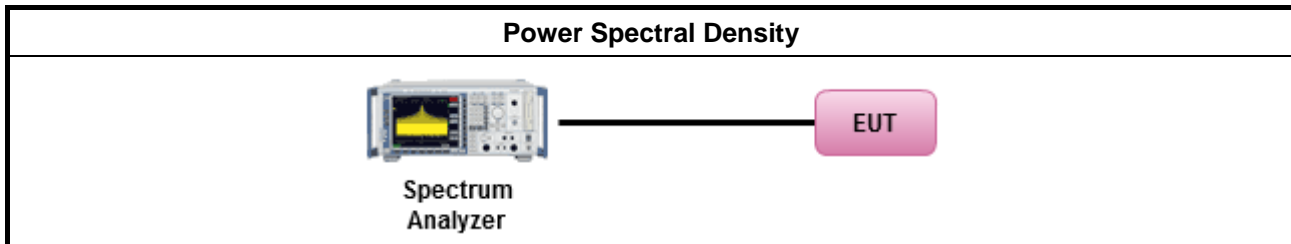
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).	
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.2 Method PKPSD. [duty cycle $\geq 98\%$ or external video / power trigger]
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.3 Method AVGPSD-1.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.5 Method AVGPSD-2.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.7 Method AVGPSD-3.
duty cycle $< 98\%$ and average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.4 Method AVGPSD-1A. (alternative).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.6 Method AVGPSD-2A. (alternative)
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.6 Method AVGPSD-3A. (alternative)
▪ For conducted measurement.	
▪ 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>	

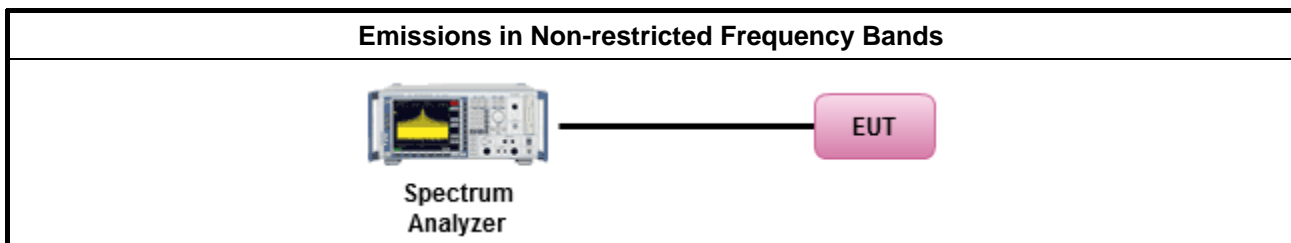
3.5.2 Measuring Instruments

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 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

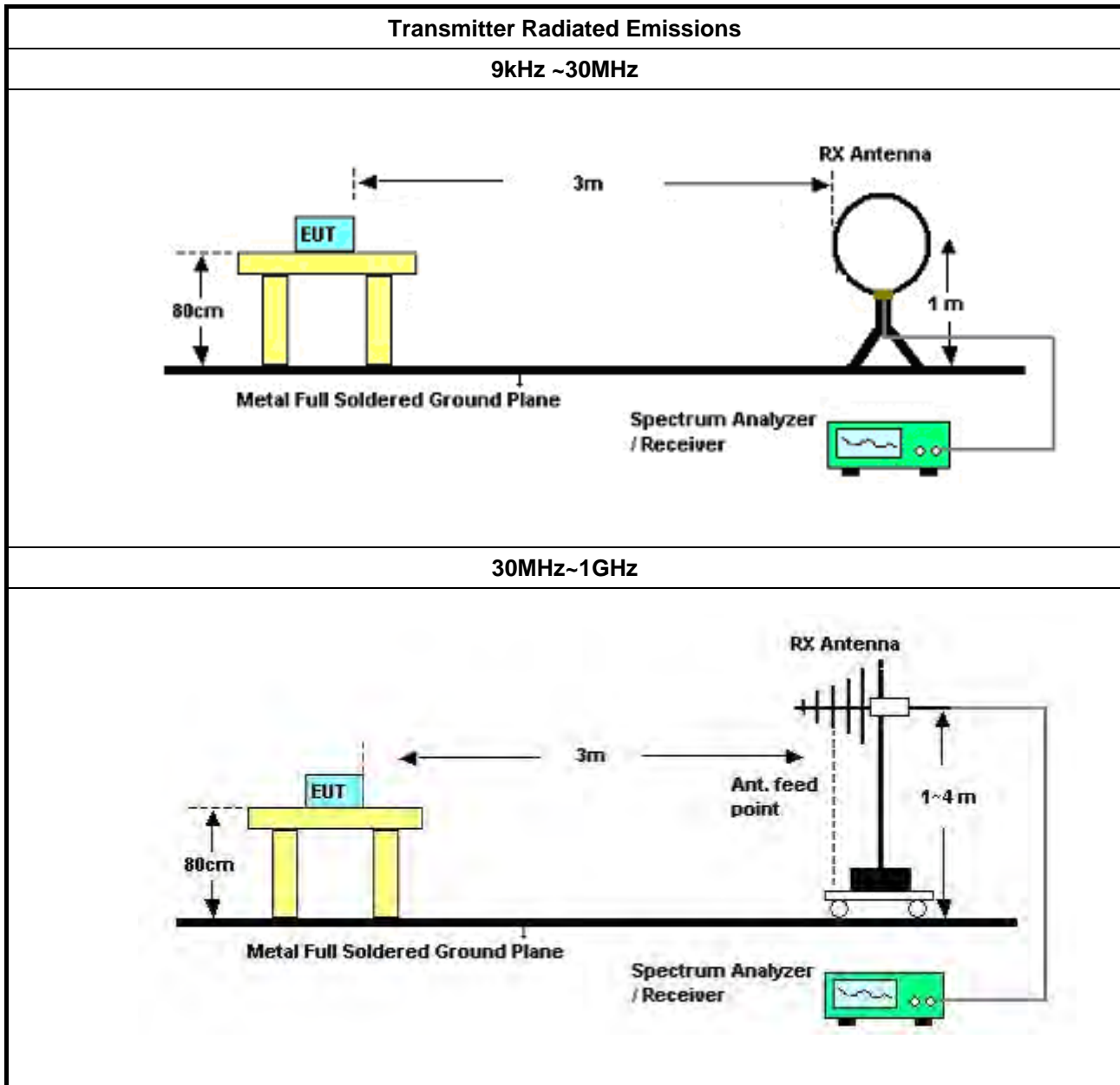
Refer a test equipment and calibration data table in this test report.

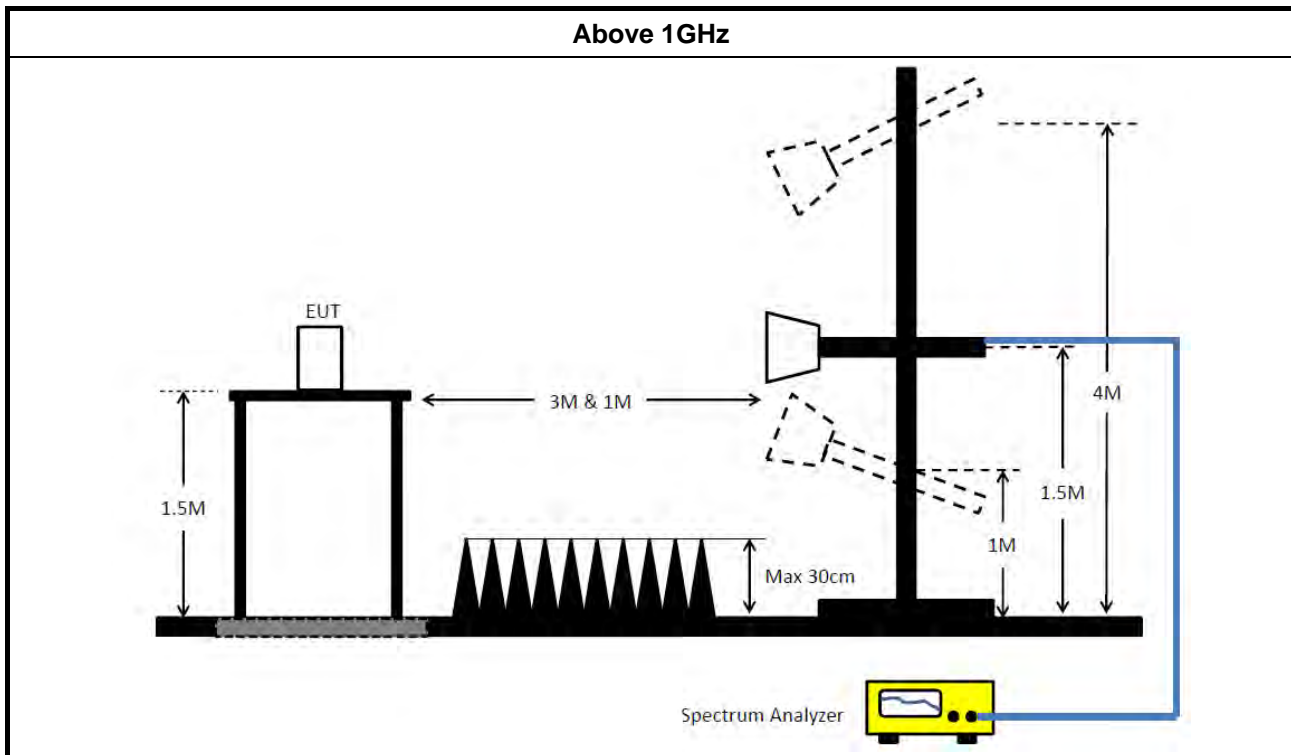


3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. 	
<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.9.2.2 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. 	
<ul style="list-style-type: none"> For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
	<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 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> For the transmitter band-edge emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> Refer as FCC KDB 558074 clause 8.7 & c63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	<ul style="list-style-type: none"> Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	<ul style="list-style-type: none"> For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	<ul style="list-style-type: none"> For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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

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

3.6.6 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
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	Low cable-CO01	150kHz ~ 30MHz	May 22, 2018	May 21, 2019	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2018	Mar. 15, 2019	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 27, 2018	Aug. 26, 2019	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 20, 2017	Nov. 19, 2018	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 28, 2018	Jun. 27, 2019	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2018	May 01, 2019	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 09, 2018	Jan. 08, 2019	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 23, 2017	Nov. 22, 2018	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100354	9kHz ~ 2.75GHz	Dec. 08, 2017	Dec. 07, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 08, 2018	Oct. 07, 2019	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	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	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-16+17	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)



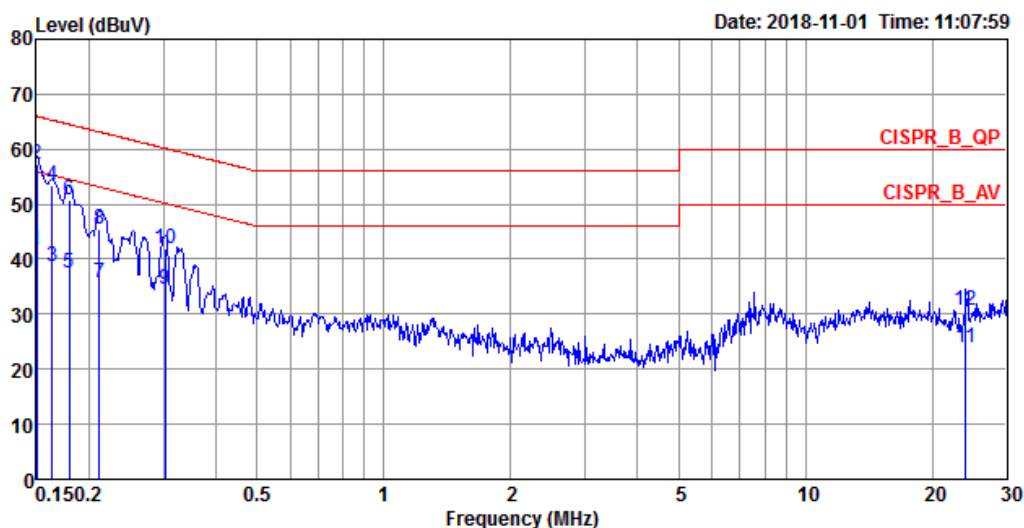
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 21, 2017	Dec. 20, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY54320014	50MHz~18GHz	Apr. 17, 2018	Apr. 16, 2019	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.

AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Line
Operating Function	Normal Link		



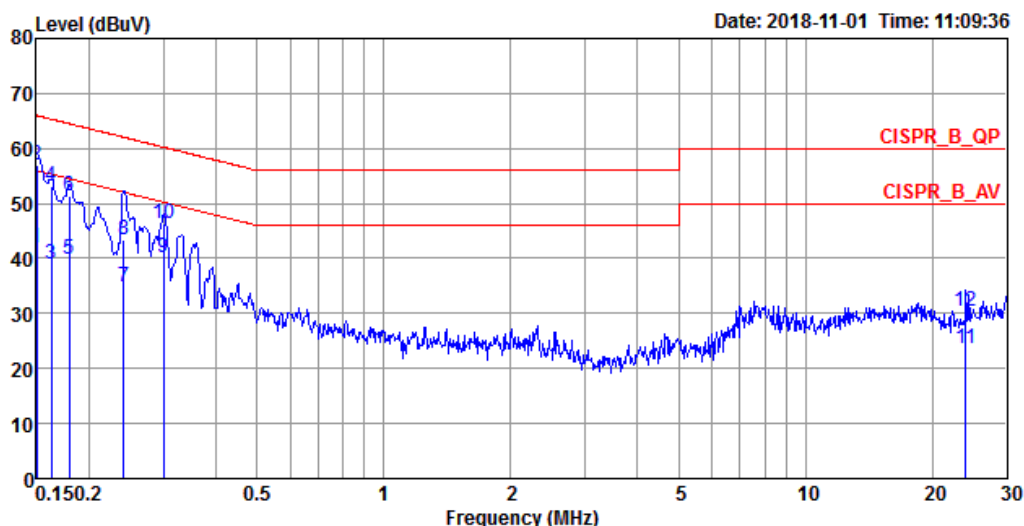
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1500	41.62	-14.38	56.00	31.55	9.91	0.16	Average	LINE
2	0.1500	57.16	-8.84	66.00	47.09	9.91	0.16	QP	LINE
3	0.1633	38.63	-16.67	55.30	28.56	9.91	0.16	Average	LINE
4	0.1633	53.37	-11.93	65.30	43.30	9.91	0.16	QP	LINE
5	0.1796	37.41	-17.09	54.50	27.35	9.91	0.15	Average	LINE
6	0.1796	50.92	-13.58	64.50	40.86	9.91	0.15	QP	LINE
7	0.2117	35.83	-17.31	53.14	25.78	9.91	0.14	Average	LINE
8	0.2117	45.55	-17.59	63.14	35.50	9.91	0.14	QP	LINE
9	0.3035	34.52	-15.63	50.15	24.48	9.91	0.13	Average	LINE
10	0.3035	41.91	-18.24	60.15	31.87	9.91	0.13	QP	LINE
11	24.0148	23.94	-26.06	50.00	13.18	10.50	0.26	Average	LINE
12	24.0148	30.75	-29.25	60.00	19.99	10.50	0.26	QP	LINE

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Neutral
Operating Function	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1500	42.05	-13.95	56.00	31.97	9.92	0.16	Average	NEUTRAL
2	0.1500	57.03	-8.97	66.00	46.95	9.92	0.16	QP	NEUTRAL
3	0.1624	38.93	-16.41	55.34	28.85	9.92	0.16	Average	NEUTRAL
4	0.1624	53.10	-12.24	65.34	43.02	9.92	0.16	QP	NEUTRAL
5	0.1796	39.72	-14.78	54.50	29.65	9.92	0.15	Average	NEUTRAL
6	0.1796	51.36	-13.14	64.50	41.29	9.92	0.15	QP	NEUTRAL
7	0.2416	34.85	-17.19	52.04	24.80	9.92	0.13	Average	NEUTRAL
8	0.2416	43.54	-18.50	62.04	33.49	9.92	0.13	QP	NEUTRAL
9	0.3003	40.22	-10.02	50.24	30.17	9.92	0.13	Average	NEUTRAL
10	0.3003	46.30	-13.94	60.24	36.25	9.92	0.13	QP	NEUTRAL
11	24.0148	23.71	-26.29	50.00	13.11	10.34	0.26	Average	NEUTRAL
12	24.0148	30.43	-29.57	60.00	19.83	10.34	0.26	QP	NEUTRAL

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	10.075M	15.067M	15M1G1D	10.025M	14.768M
802.11g_Nss1,(6Mbps)_2TX	15.075M	22.239M	22M2D1D	15M	16.342M
802.11n HT20_Nss1,(MCS0)_2TX	15.725M	23.663M	23M7D1D	15.025M	17.516M
802.11n HT40_Nss1,(MCS0)_2TX	35.05M	35.932M	35M9D1D	30.05M	35.732M

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;

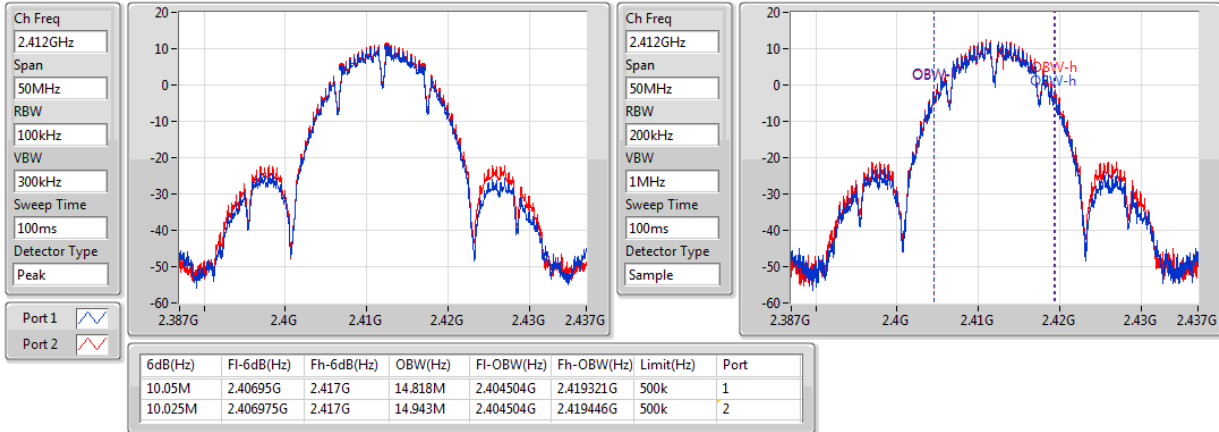
Result

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	10.05M	14.818M	10.025M	14.943M
2437MHz	Pass	500k	10.025M	14.768M	10.075M	15.042M
2462MHz	Pass	500k	10.05M	14.893M	10.05M	15.067M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.075M	16.367M	15.075M	16.367M
2437MHz	Pass	500k	15M	19.665M	15.05M	22.239M
2462MHz	Pass	500k	15M	16.342M	15.075M	16.367M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.725M	17.541M	15.025M	17.516M
2437MHz	Pass	500k	15.05M	20.515M	15.075M	23.663M
2462MHz	Pass	500k	15.025M	17.516M	15.1M	17.541M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.05M	35.932M	35M	35.782M
2437MHz	Pass	500k	30.05M	35.932M	35M	35.882M
2452MHz	Pass	500k	35.05M	35.732M	33.8M	35.832M

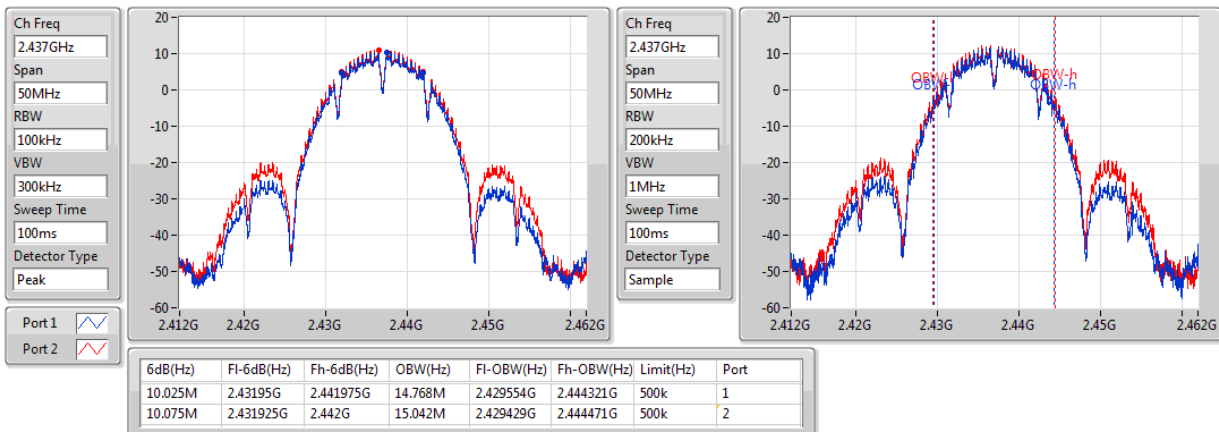
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

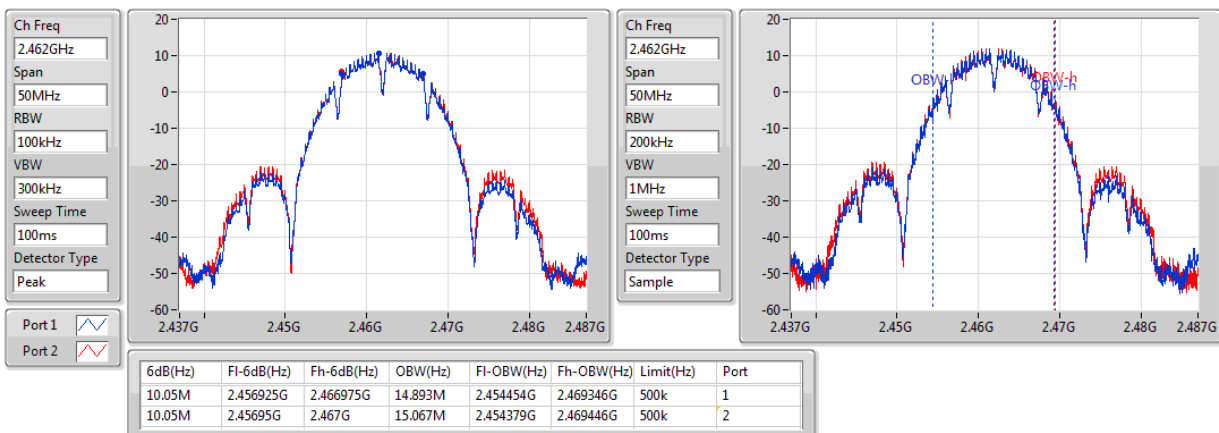
31/10/2018


802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

31/10/2018

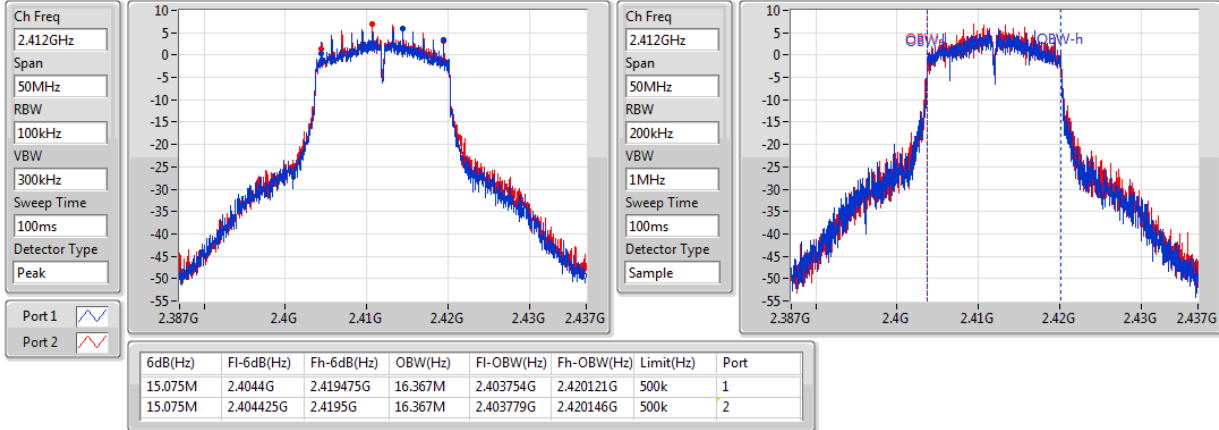

802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

31/10/2018

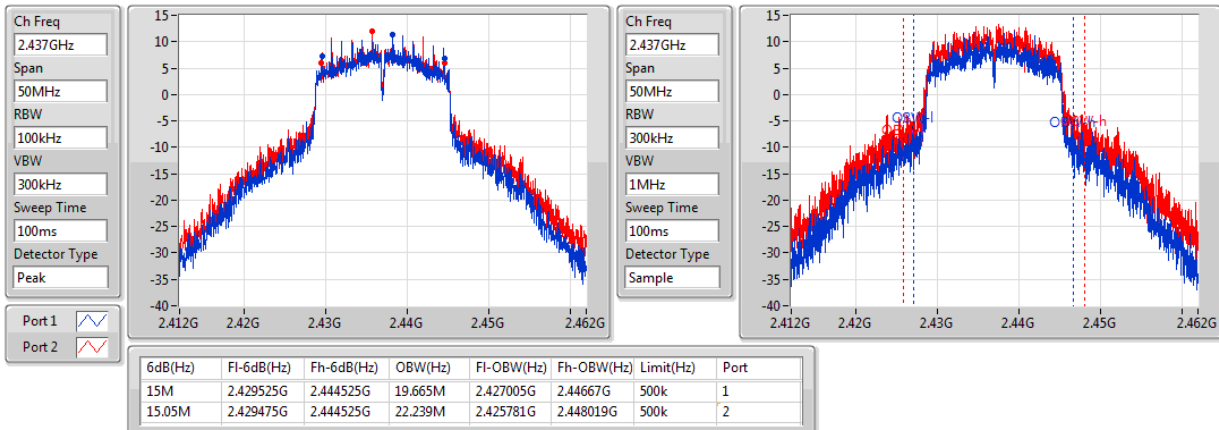


802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

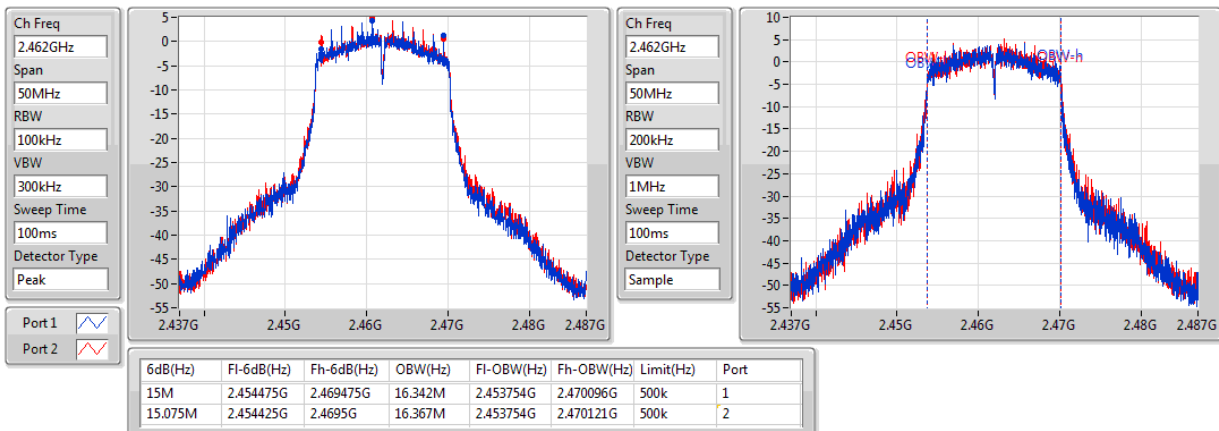
31/10/2018


802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

31/10/2018

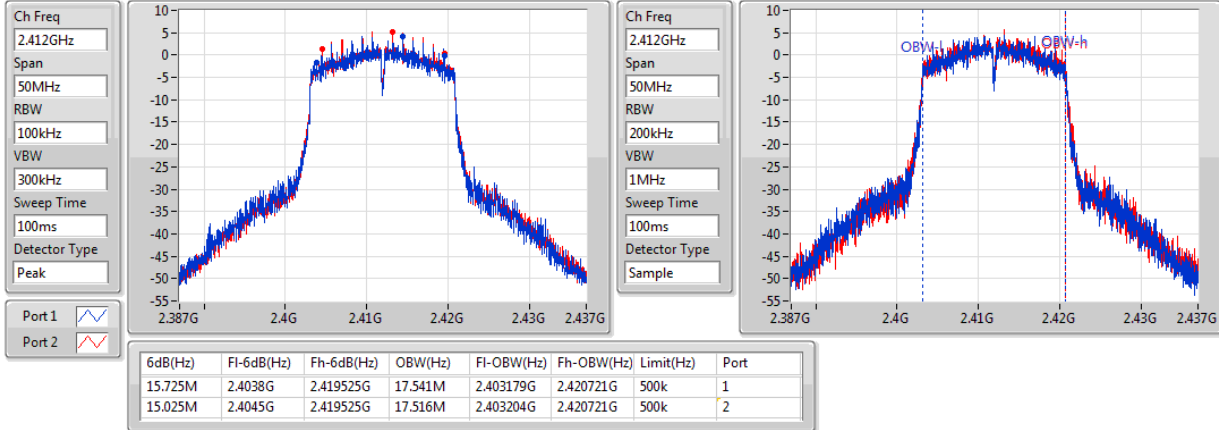

802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

31/10/2018

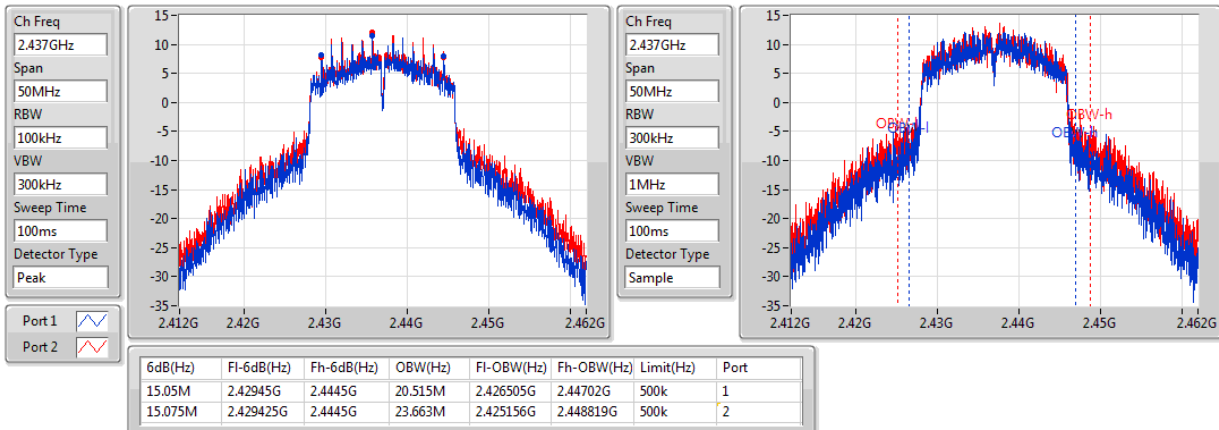


802.11n HT20_Nss1,(MCS0)_2TX
EBW
2412MHz

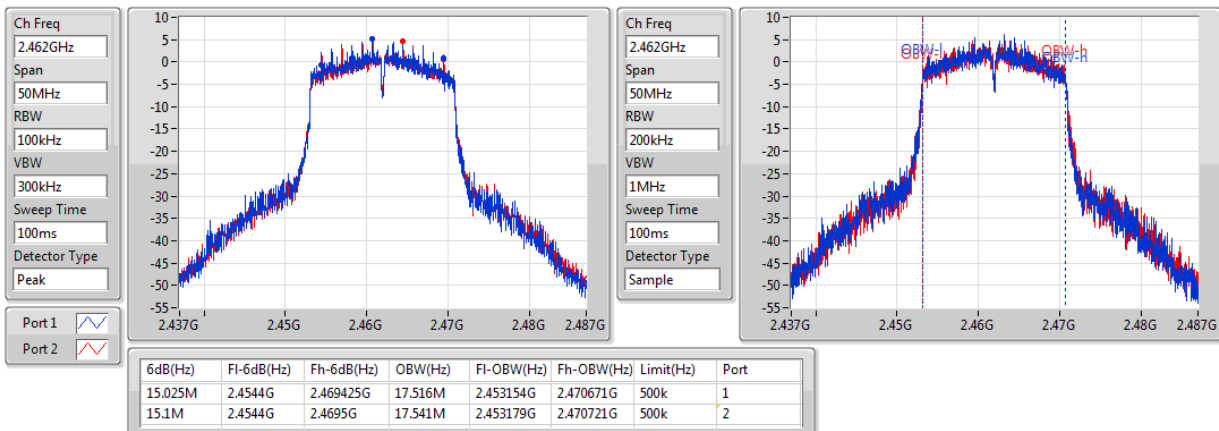
31/10/2018


802.11n HT20_Nss1,(MCS0)_2TX
EBW
2437MHz

31/10/2018

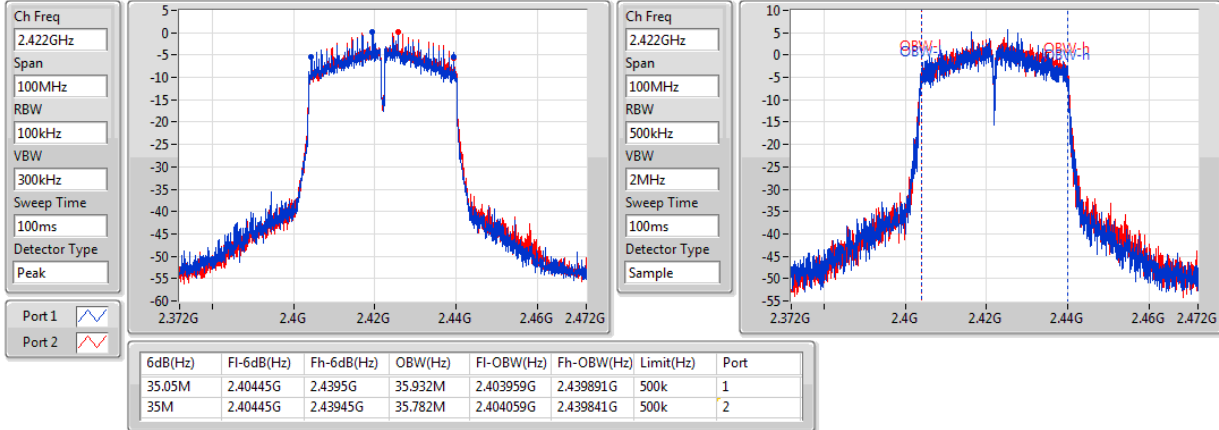

802.11n HT20_Nss1,(MCS0)_2TX
EBW
2462MHz

31/10/2018

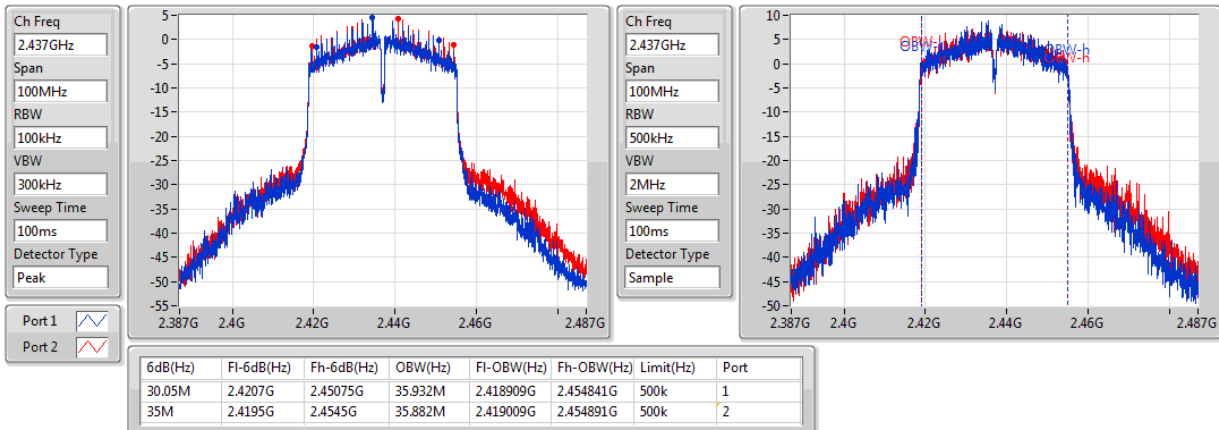


802.11n HT40_Nss1,(MCS0)_2TX
EBW
2422MHz

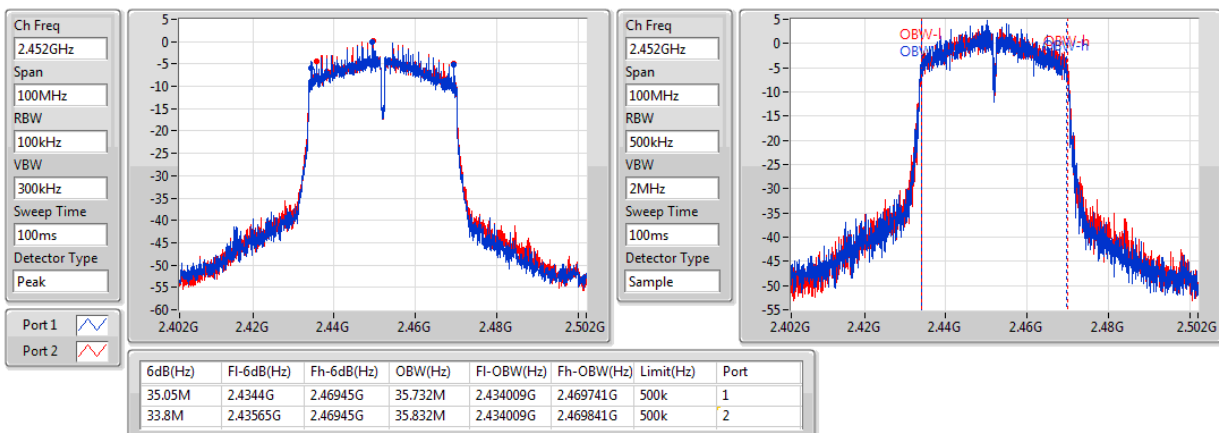
31/10/2018


802.11n HT40_Nss1,(MCS0)_2TX
EBW
2437MHz

31/10/2018


802.11n HT40_Nss1,(MCS0)_2TX
EBW
2452MHz

31/10/2018



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	24.18	0.26182
802.11g_Nss1,(6Mbps)_2TX	25.16	0.32810
802.11n HT20_Nss1,(MCS0)_2TX	25.19	0.33037
802.11n HT40_Nss1,(MCS0)_2TX	20.32	0.10765

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.24	20.85	21.44	24.17	30.00
2437MHz	Pass	1.24	20.81	21.50	24.18	30.00
2462MHz	Pass	1.24	21.17	21.15	24.17	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.24	16.92	17.36	20.16	30.00
2417MHz	Pass	1.24	19.33	19.62	22.49	30.00
2422MHz	Pass	1.24	20.73	21.01	23.88	30.00
2427MHz	Pass	1.24	21.72	22.32	25.04	30.00
2437MHz	Pass	1.24	21.73	22.54	25.16	30.00
2447MHz	Pass	1.24	21.88	22.20	25.05	30.00
2452MHz	Pass	1.24	20.41	20.72	23.58	30.00
2457MHz	Pass	1.24	18.98	19.39	22.20	30.00
2462MHz	Pass	1.24	15.44	15.51	18.49	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.24	15.40	15.72	18.57	30.00
2417MHz	Pass	1.24	19.10	19.16	22.14	30.00
2422MHz	Pass	1.24	20.54	20.91	23.74	30.00
2427MHz	Pass	1.24	21.77	22.40	25.11	30.00
2437MHz	Pass	1.24	21.99	22.36	25.19	30.00
2442MHz	Pass	1.24	21.96	22.28	25.13	30.00
2447MHz	Pass	1.24	20.98	21.25	24.13	30.00
2452MHz	Pass	1.24	19.97	19.90	22.95	30.00
2457MHz	Pass	1.24	19.07	19.35	22.22	30.00
2462MHz	Pass	1.24	14.95	15.70	18.35	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	1.24	12.97	13.69	16.36	30.00
2427MHz	Pass	1.24	14.37	15.14	17.78	30.00
2432MHz	Pass	1.24	15.98	16.58	19.30	30.00
2437MHz	Pass	1.24	17.09	17.51	20.32	30.00
2442MHz	Pass	1.24	15.46	16.15	18.83	30.00
2447MHz	Pass	1.24	13.87	14.64	17.28	30.00
2452MHz	Pass	1.24	13.06	13.57	16.33	30.00

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

Note : Conducted average output power is for reference only

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-3.05
802.11g_Nss1,(6Mbps)_2TX	-2.54
802.11n HT20_Nss1,(MCS0)_2TX	-2.41
802.11n HT40_Nss1,(MCS0)_2TX	-9.89

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	4.23	-5.47	-4.50	-3.63	8.00
2437MHz	Pass	4.23	-4.86	-3.95	-3.05	8.00
2462MHz	Pass	4.23	-5.92	-5.80	-3.79	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.23	-10.41	-9.45	-7.87	8.00
2437MHz	Pass	4.23	-4.54	-5.25	-2.54	8.00
2462MHz	Pass	4.23	-11.08	-10.61	-9.10	8.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.23	-10.66	-11.08	-9.18	8.00
2437MHz	Pass	4.23	-4.91	-4.52	-2.41	8.00
2462MHz	Pass	4.23	-11.43	-11.38	-9.19	8.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.23	-16.30	-15.98	-14.23	8.00
2437MHz	Pass	4.23	-12.28	-12.01	-9.89	8.00
2452MHz	Pass	4.23	-16.25	-16.54	-14.18	8.00

DG = Directional Gain; RBW=3kHz;

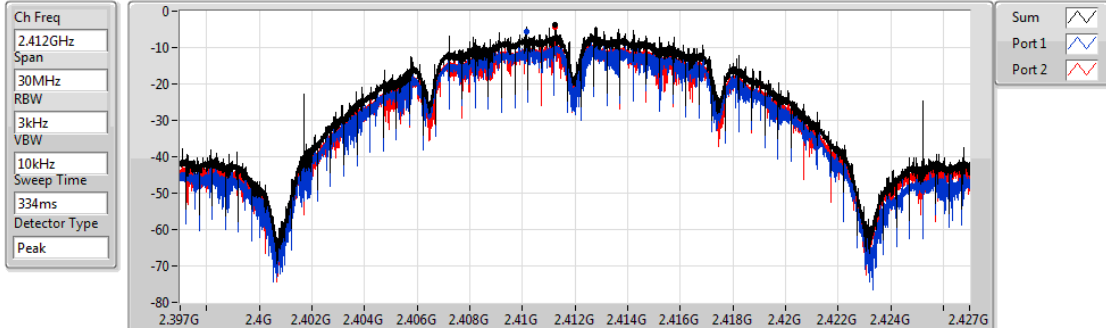
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

31/10/2018



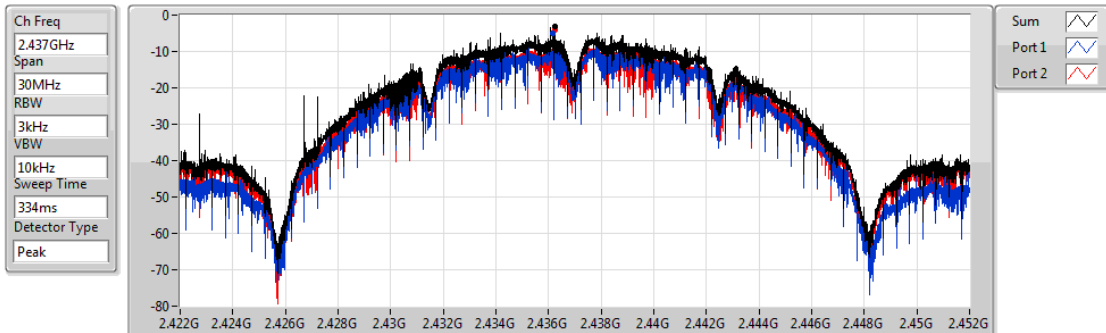
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.63	-3.63	-5.47	-4.50

802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

31/10/2018



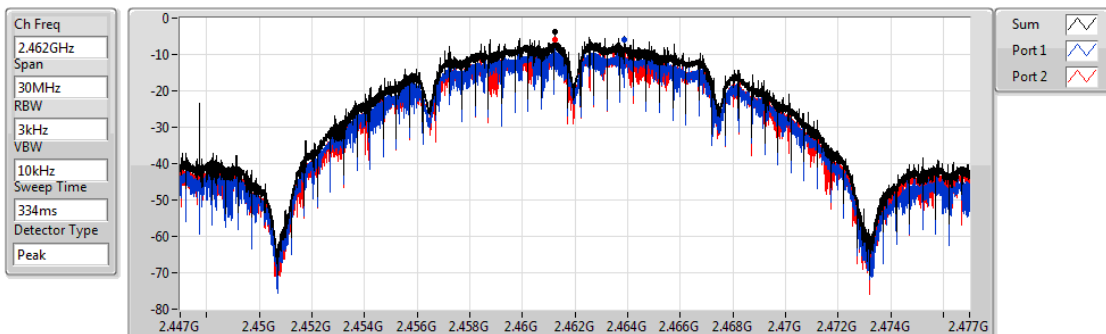
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.05	-3.05	-4.86	-3.95

802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

31/10/2018



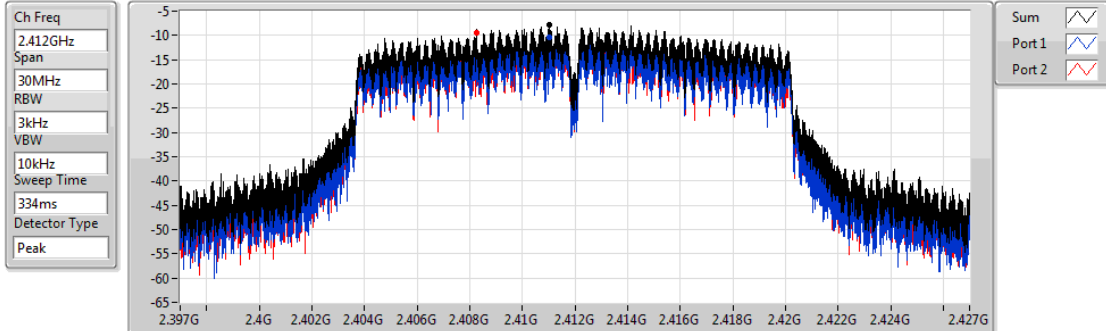
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.79	-3.79	-5.92	-5.80

802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

31/10/2018



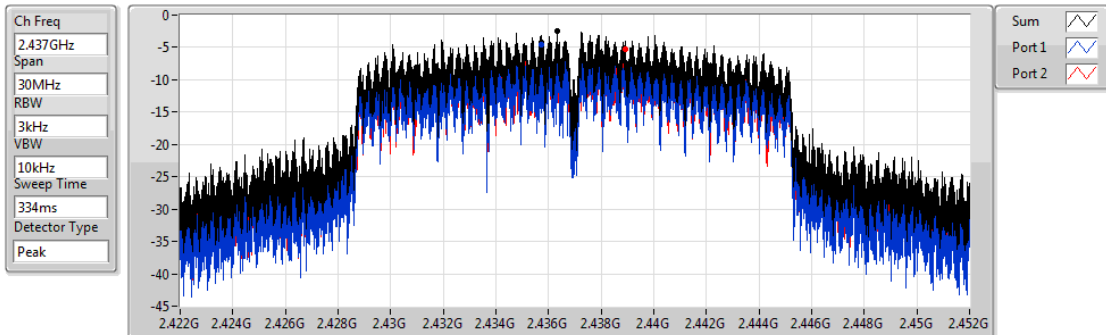
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-7.87	-7.87	-10.41	-9.45

802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

31/10/2018



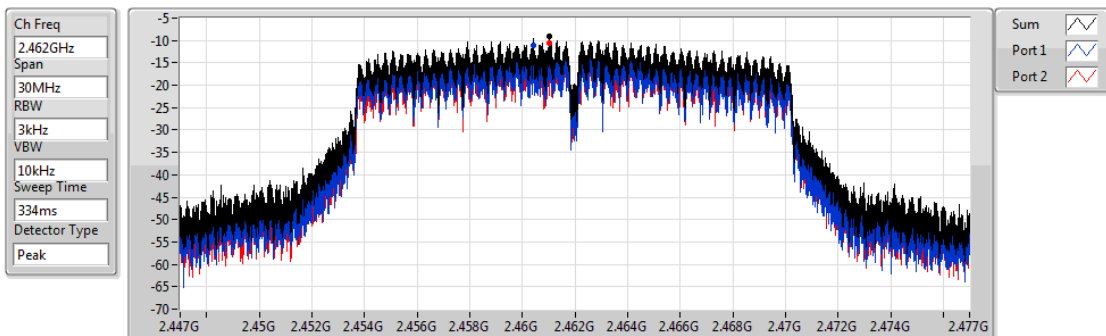
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-2.54	-2.54	-4.54	-5.25

802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

31/10/2018



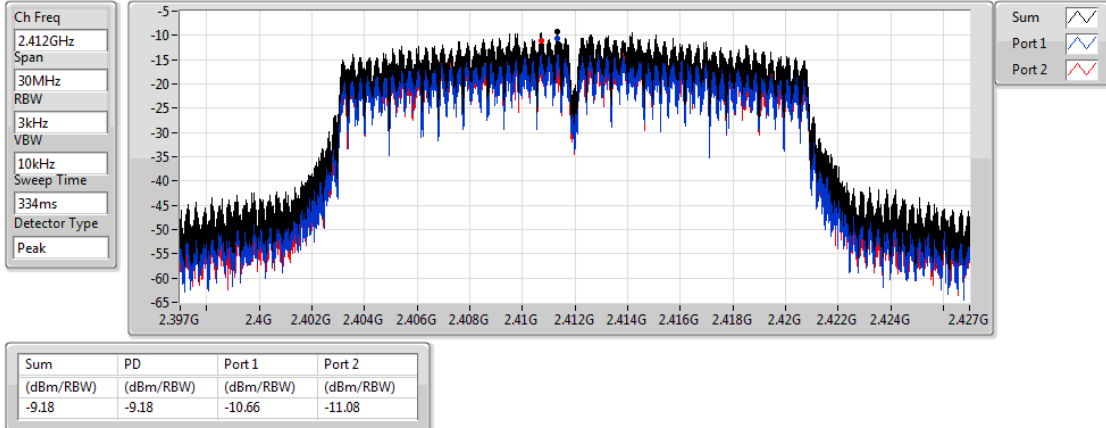
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-9.10	-9.10	-11.08	-10.61

802.11n HT20_Nss1,(MCS0)_2TX

PSD

2412MHz

31/10/2018

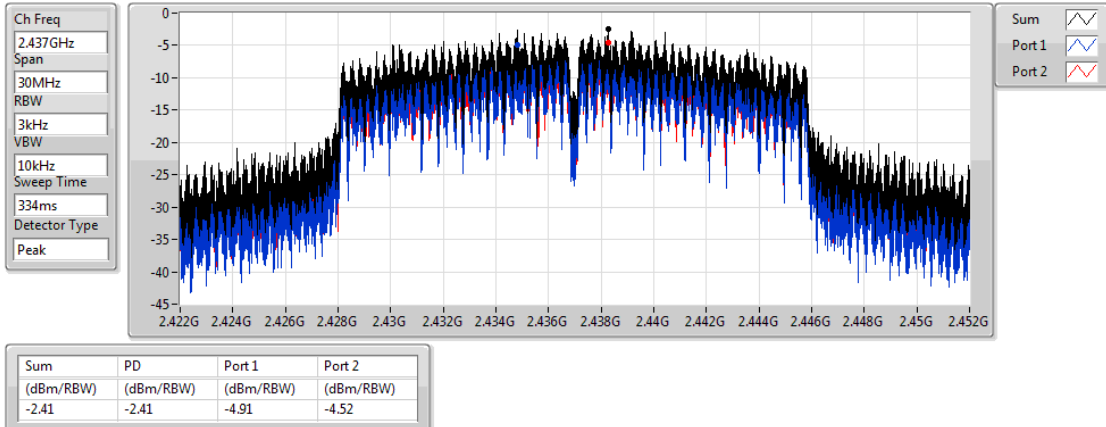


802.11n HT20_Nss1,(MCS0)_2TX

PSD

2437MHz

31/10/2018

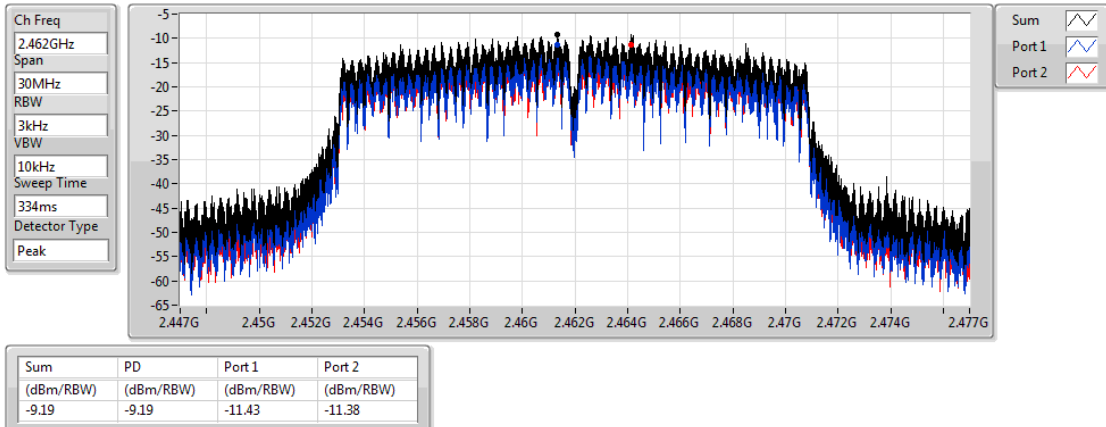


802.11n HT20_Nss1,(MCS0)_2TX

PSD

2462MHz

31/10/2018

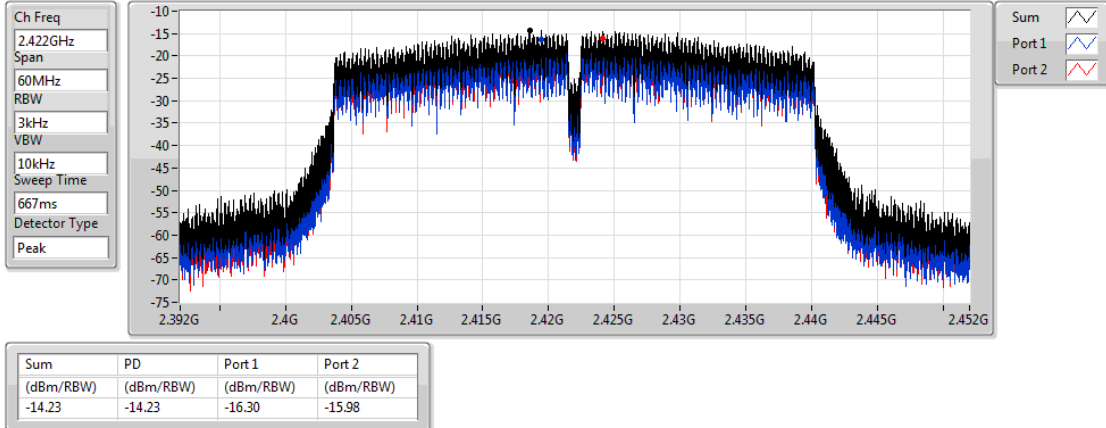


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2422MHz

31/10/2018

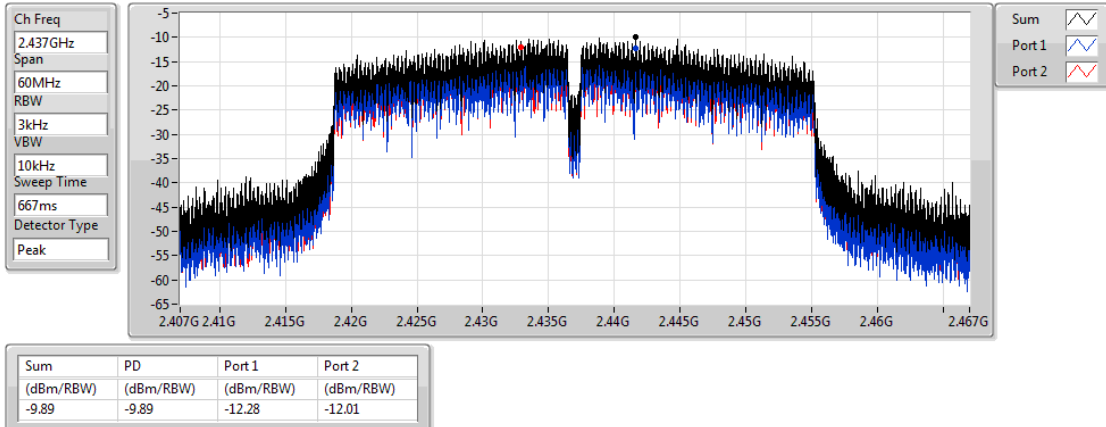


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2437MHz

31/10/2018

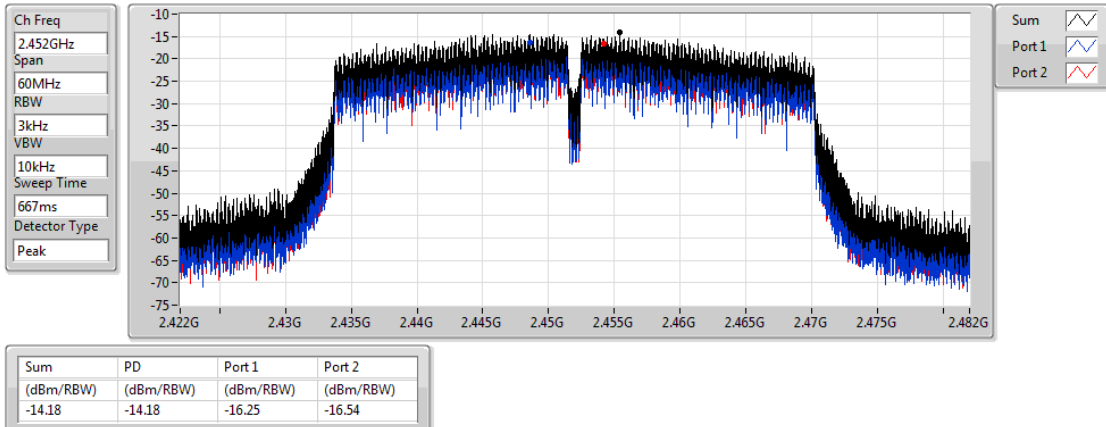


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2452MHz

31/10/2018





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	2.436406G	10.38	-19.62	479.69M	-57.17	2.398G	-22.33	2.49766G	-52.17	7.235136G	-46.29	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.435738G	9.16	-20.84	479.69M	-55.44	2.39992G	-23.61	2.49878G	-53.51	7.235136G	-50.57	1
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.438243G	11.45	-18.55	479.69M	-55.10	2.39952G	-27.16	2.48822G	-52.55	16.383072G	-55.46	1
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.440748G	3.41	-26.59	479.985M	-56.35	2.39888G	-35.59	2.48414G	-44.53	24.966345G	-55.33	2

Result

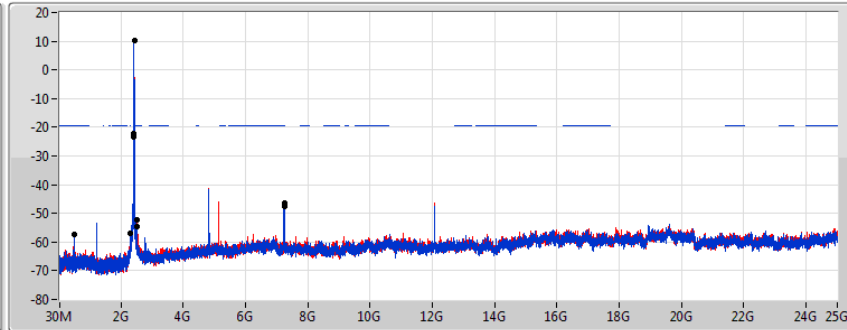
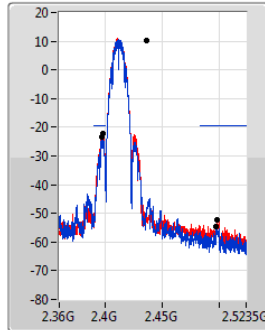
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.436406G	10.38	-19.62	2.30641G	-56.85	2.39704G	-23.45	2.4975G	-54.48	7.235136G	-47.39	1
2412MHz	Pass	2.436406G	10.38	-19.62	479.69M	-57.17	2.398G	-22.33	2.49766G	-52.17	7.235136G	-46.29	2
2437MHz	Pass	2.436406G	10.38	-19.62	479.69M	-55.94	2.39752G	-48.50	2.51302G	-53.19	16.472978G	-55.38	1
2437MHz	Pass	2.436406G	10.38	-19.62	479.69M	-56.82	2.39544G	-50.40	2.49086G	-51.82	15.225532G	-54.85	2
2462MHz	Pass	2.436406G	10.38	-19.62	479.69M	-57.47	2.39296G	-54.66	2.4879G	-44.70	24.601042G	-55.18	1
2462MHz	Pass	2.436406G	10.38	-19.62	479.69M	-58.16	2.39232G	-54.65	2.4839G	-49.31	24.912904G	-54.52	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.435738G	9.16	-20.84	479.69M	-55.44	2.39992G	-23.61	2.49878G	-53.51	7.235136G	-50.57	1
2412MHz	Pass	2.435738G	9.16	-20.84	479.69M	-56.49	2.39984G	-24.54	2.49318G	-48.30	7.235136G	-54.15	2
2437MHz	Pass	2.435738G	9.16	-20.84	479.69M	-54.29	2.39992G	-44.16	2.4863G	-47.95	2.5235G	-55.58	1
2437MHz	Pass	2.435738G	9.16	-20.84	479.69M	-56.42	2.39984G	-39.91	2.48454G	-45.18	2.52631G	-54.19	2
2462MHz	Pass	2.435738G	9.16	-20.84	479.69M	-55.00	2.3924G	-51.81	2.48414G	-47.60	16.433644G	-55.21	1
2462MHz	Pass	2.435738G	9.16	-20.84	479.69M	-56.95	2.39456G	-50.78	2.48382G	-48.54	5.226299G	-44.92	2
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.438243G	11.45	-18.55	479.69M	-55.10	2.39952G	-27.16	2.48822G	-52.55	16.383072G	-55.46	1
2412MHz	Pass	2.438243G	11.45	-18.55	479.69M	-54.81	2.39912G	-30.34	2.49846G	-49.97	5.290919G	-46.67	2
2437MHz	Pass	2.438243G	11.45	-18.55	479.69M	-54.28	2.39952G	-40.62	2.48566G	-46.37	5.304967G	-47.05	1
2437MHz	Pass	2.438243G	11.45	-18.55	479.69M	-55.98	2.39952G	-38.36	2.48422G	-45.10	2.5235G	-54.89	2
2462MHz	Pass	2.438243G	11.45	-18.55	479.69M	-55.95	2.39528G	-52.65	2.48374G	-45.54	5.153251G	-34.23	1
2462MHz	Pass	2.438243G	11.45	-18.55	479.69M	-55.22	2.3932G	-50.39	2.48382G	-42.73	2.540357G	-51.63	2
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.440748G	3.41	-26.59	479.985M	-53.62	2.39824G	-37.67	2.49758G	-53.20	16.600335G	-54.93	1
2422MHz	Pass	2.440748G	3.41	-26.59	479.985M	-60.81	2.3992G	-37.62	2.49982G	-51.39	24.862576G	-53.98	2
2437MHz	Pass	2.440748G	3.41	-26.59	39.16M	-52.65	2.39984G	-36.22	2.4851G	-48.33	16.333902G	-55.26	1
2437MHz	Pass	2.440748G	3.41	-26.59	479.985M	-56.35	2.39888G	-35.59	2.48414G	-44.53	24.966345G	-55.33	2
2452MHz	Pass	2.440748G	3.41	-26.59	479.985M	-52.24	2.3936G	-52.33	2.48382G	-45.79	24.915863G	-55.04	1
2452MHz	Pass	2.440748G	3.41	-26.59	479.985M	-60.35	2.39696G	-53.41	2.48446G	-40.64	16.600335G	-55.26	2



802.11b_Nss1,(1Mbps)_2TX

CSE NdB

2412MHz

31/10/2018



Port 1 
Port 2 

RBW VBW
100kHz 300kHz
Detector Type
Peak

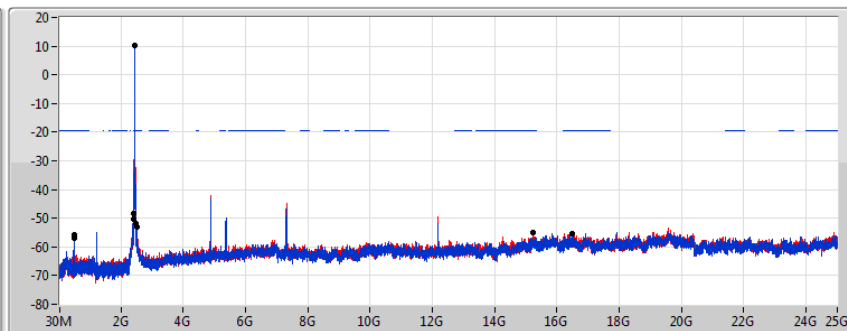
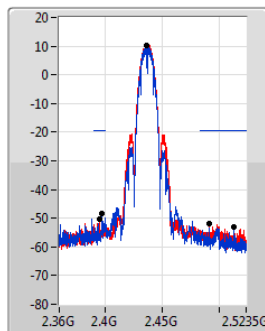
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.436406G	10.38	-19.62	2.30641G	-56.85	2.39704G	-23.45	2.4975G	-54.48	7.235136G	-47.39	1
2.436406G	10.38	-19.62	479.69M	-57.17	2.398G	-22.33	2.49766G	-52.17	7.235136G	-46.29	2



802.11b_Nss1,(1Mbps)_2TX

CSE NdB

2437MHz

31/10/2018



Port 1 
Port 2 

RBW VBW
100kHz 300kHz
Detector Type
Peak

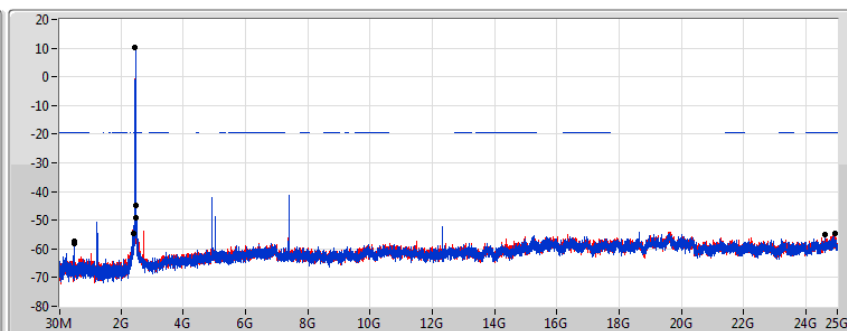
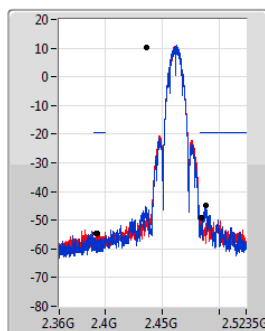
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.436406G	10.38	-19.62	479.69M	-55.94	2.39752G	-48.50	2.51302G	-53.19	16.472978G	-55.38	1
2.436406G	10.38	-19.62	479.69M	-56.82	2.39544G	-50.40	2.49086G	-51.82	15.225532G	-54.85	2

802.11b_Nss1,(1Mbps)_2TX

CSE NdB

2462MHz

31/10/2018



Port 1 
Port 2 

RBW VBW
100kHz 300kHz
Detector Type
Peak

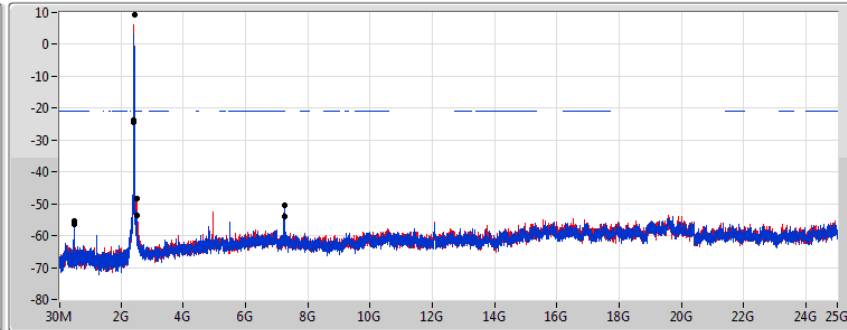
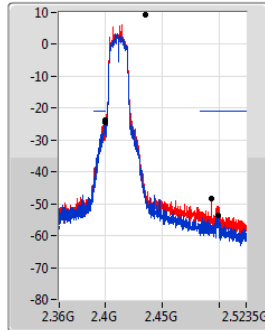
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.436406G	10.38	-19.62	479.69M	-57.47	2.39296G	-54.66	2.4879G	-44.70	24.601042G	-55.18	1
2.436406G	10.38	-19.62	479.69M	-58.16	2.39232G	-54.65	2.4839G	-49.31	24.912904G	-54.52	2

802.11g_Nss1,(6Mbps)_2TX

CSE NdB

2412MHz

31/10/2018


Port 1
Port 2

RBW VBW
100kHz 300kHz
Detector Type
Peak

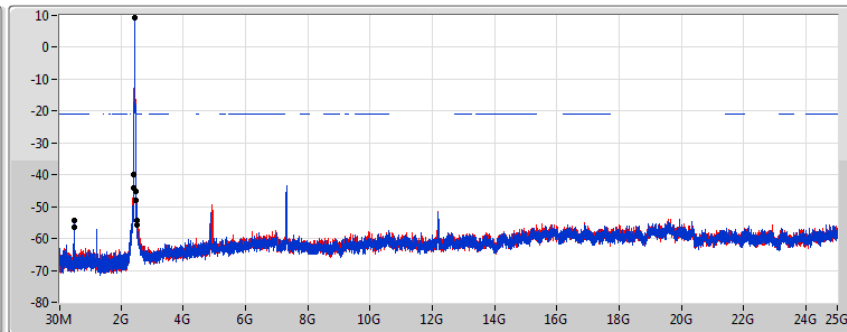
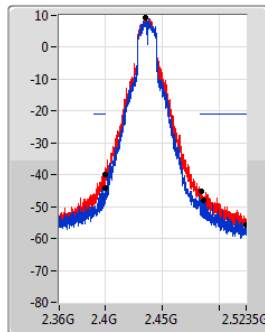
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43738G	9.16	-20.84	479.69M	-55.44	2.39992G	-23.61	2.49878G	-53.51	7.235136G	-50.57	1
2.43738G	9.16	-20.84	479.69M	-56.49	2.39984G	-24.54	2.49318G	-48.30	7.235136G	-54.15	2

802.11g_Nss1,(6Mbps)_2TX

CSE NdB

2437MHz

31/10/2018


Port 1
Port 2

RBW VBW
100kHz 300kHz
Detector Type
Peak

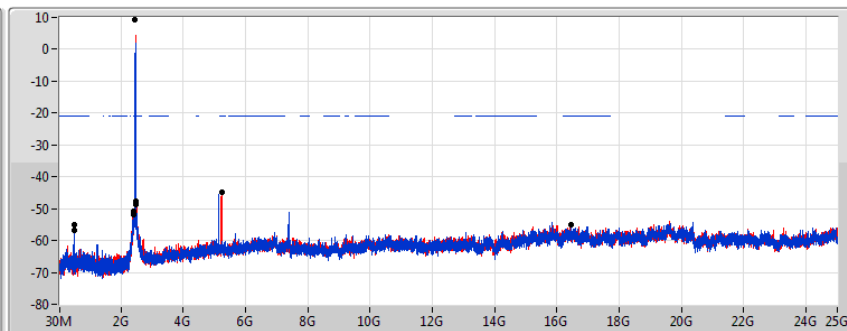
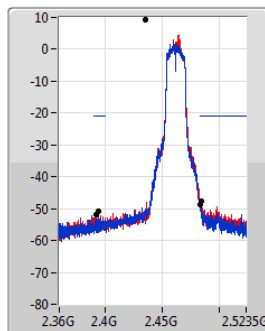
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43738G	9.16	-20.84	479.69M	-54.29	2.39992G	-44.16	2.4863G	-47.95	2.5235G	-55.58	1
2.43738G	9.16	-20.84	479.69M	-56.42	2.39984G	-39.91	2.48454G	-45.18	2.52631G	-54.19	2

802.11g_Nss1,(6Mbps)_2TX

CSE NdB

2462MHz

31/10/2018


Port 1
Port 2

RBW VBW
100kHz 300kHz
Detector Type
Peak

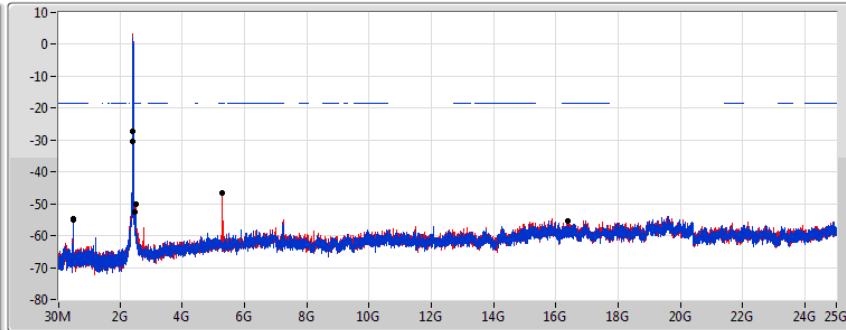
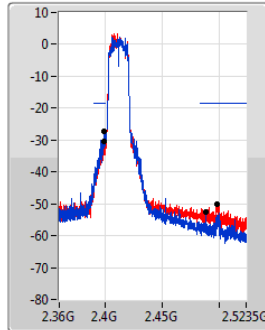
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43738G	9.16	-20.84	479.69M	-55.00	2.3924G	-51.81	2.48414G	-47.60	16.433644G	-55.21	1
2.43738G	9.16	-20.84	479.69M	-56.95	2.39456G	-50.78	2.48382G	-48.54	5.226299G	-44.92	2

802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

2412MHz

31/10/2018



Port 1
Port 2

RBW VBW
100kHz 300kHz
Detector Type
Peak

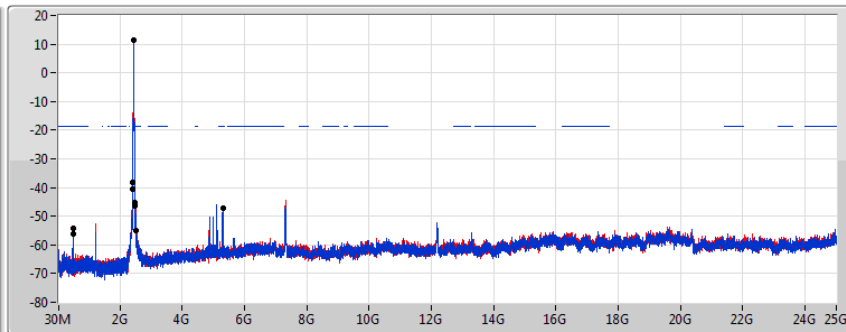
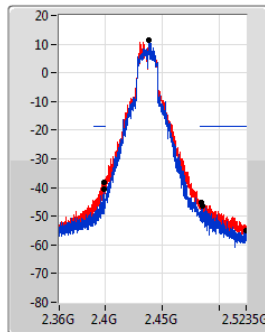
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.438243G	11.45	-18.55	479.69M	-55.10	2.39952G	-27.16	2.48822G	-52.55	16.383072G	-55.46	1
2.438243G	11.45	-18.55	479.69M	-54.81	2.39912G	-30.34	2.49846G	-49.97	5.290919G	-46.67	2

802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

2437MHz

31/10/2018



Port 1
Port 2

RBW VBW
100kHz 300kHz
Detector Type
Peak

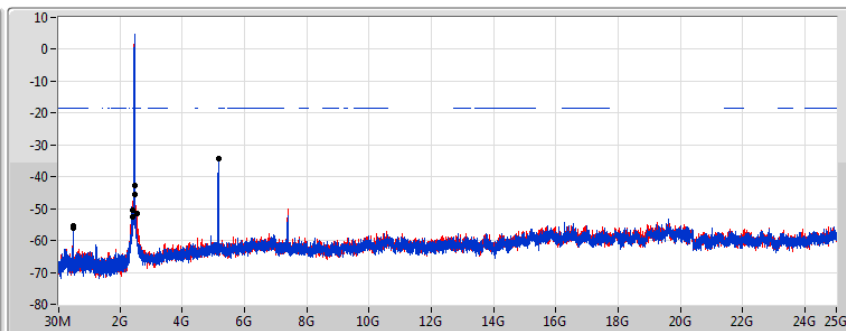
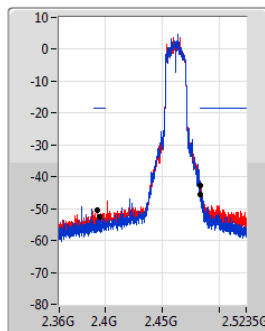
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.438243G	11.45	-18.55	479.69M	-54.28	2.39952G	-40.62	2.48566G	-46.37	5.304967G	-47.05	1
2.438243G	11.45	-18.55	479.69M	-55.98	2.39952G	-38.36	2.48422G	-45.10	2.5235G	-54.89	2

802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

2462MHz

31/10/2018



Port 1
Port 2

RBW VBW
100kHz 300kHz
Detector Type
Peak

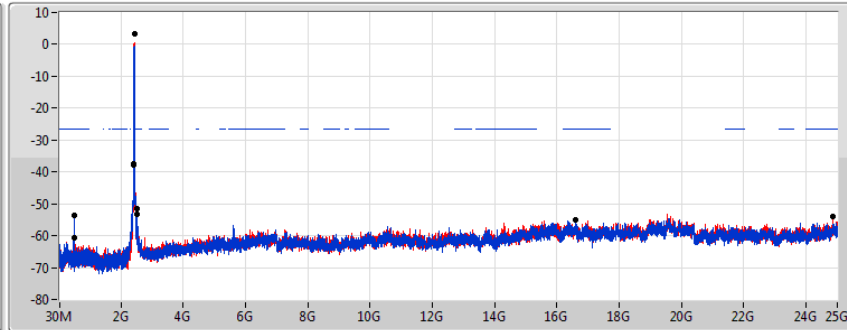
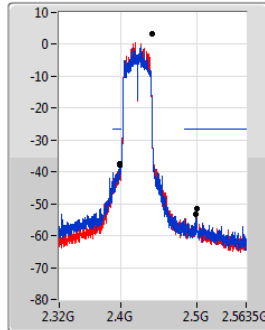
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.438243G	11.45	-18.55	479.69M	-55.95	2.39528G	-52.65	2.48374G	-45.54	5.153251G	-34.23	1
2.438243G	11.45	-18.55	479.69M	-55.22	2.3932G	-50.39	2.48382G	-42.73	2.540357G	-51.63	2

802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

2422MHz

31/10/2018



Port 1
Port 2

RBW VBW
100kHz 300kHz
Detector Type
Peak

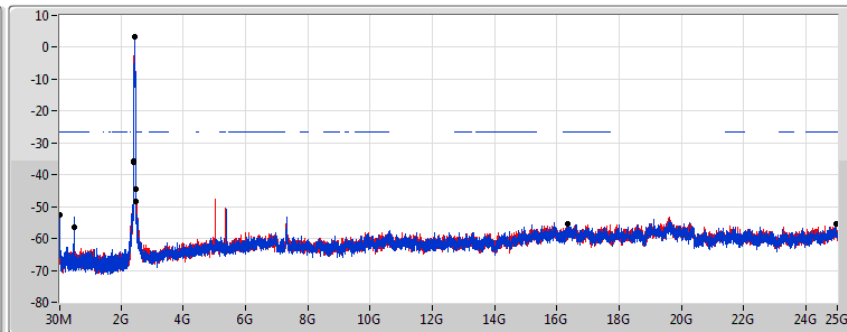
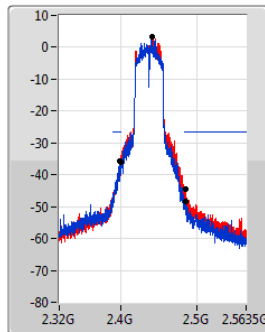
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.440748G	3.41	-26.59	479.985M	-53.62	2.39824G	-37.67	2.49758G	-53.20	16.600335G	-54.93	1
2.440748G	3.41	-26.59	479.985M	-60.81	2.3992G	-37.62	2.49982G	-51.39	24.862576G	-53.98	2

802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

2437MHz

31/10/2018



Port 1
Port 2

RBW VBW
100kHz 300kHz
Detector Type
Peak

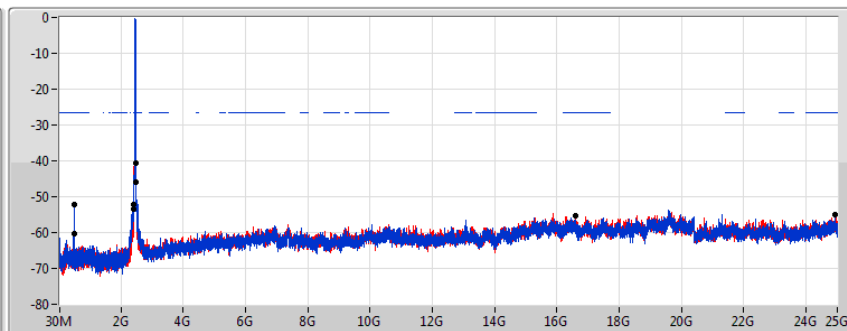
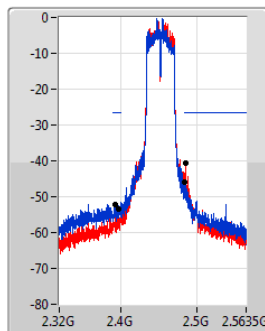
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.440748G	3.41	-26.59	39.16M	-52.65	2.39984G	-36.22	2.4851G	-48.33	16.333902G	-55.26	1
2.440748G	3.41	-26.59	479.985M	-56.35	2.39888G	-35.59	2.48414G	-44.53	24.966345G	-55.33	2

802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

2452MHz

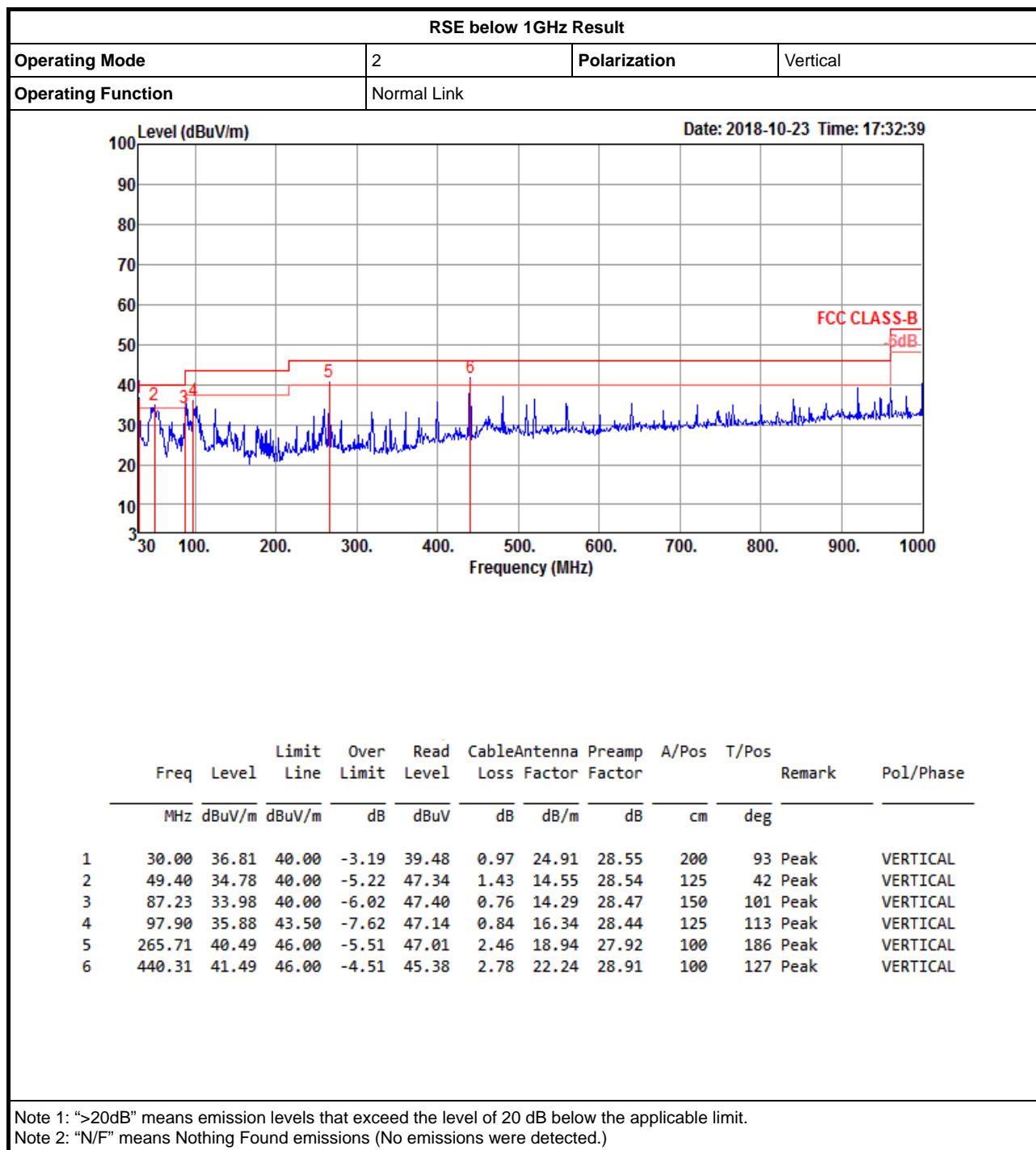
31/10/2018

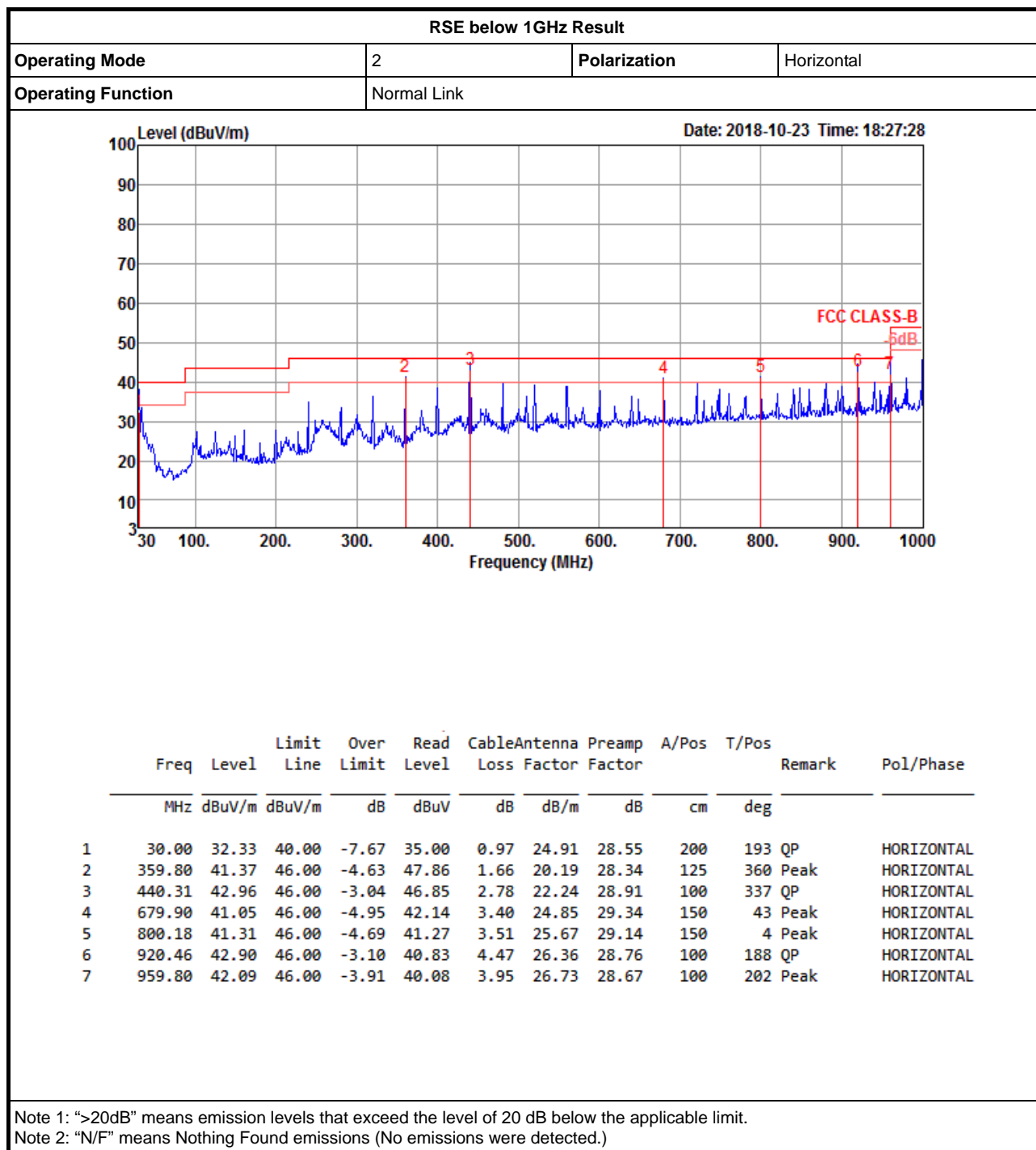


Port 1
Port 2

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
2.440748G	3.41	-26.59	479.985M	-52.24	2.3936G	-52.33	2.48382G	-45.79	24.915863G	-55.04	1
2.440748G	3.41	-26.59	479.985M	-60.35	2.39696G	-53.41	2.48446G	-40.64	16.600335G	-55.26	2







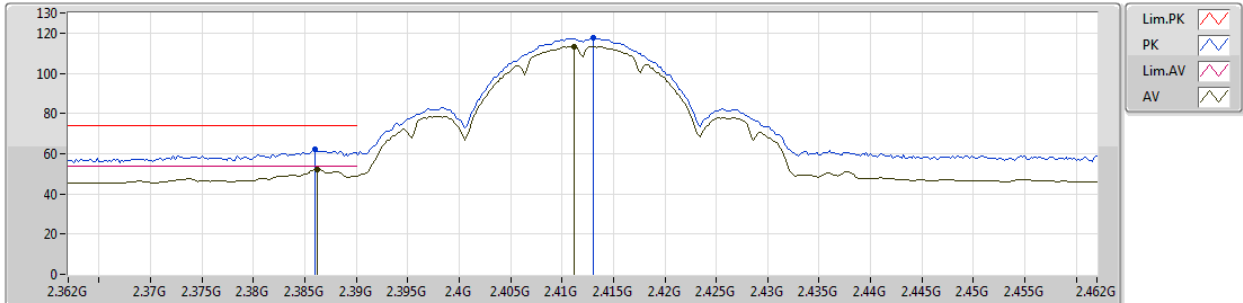
Summary

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	-	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.39G	52.99	54.00	-1.01	32.13	3	Vertical	89	2.49	-

802.11b_Nss1,(1Mbps)_2TX

04/10/2018

2412MHz_TX



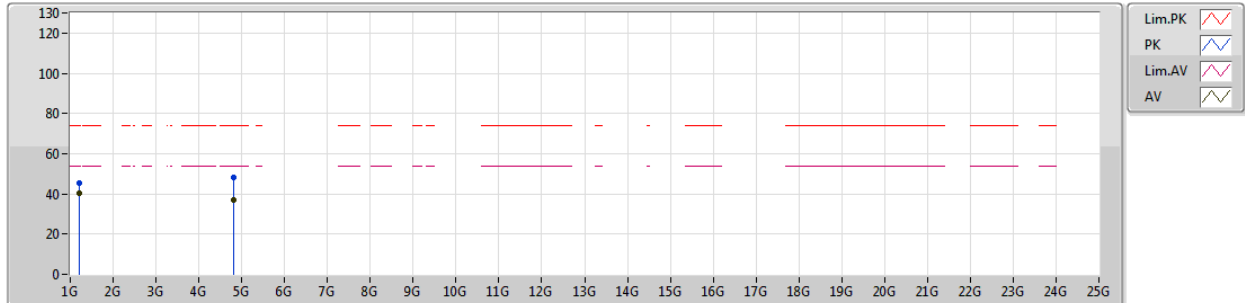
EUT Y_2TX
Setting 26
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.386G	62.06	74.00	-11.94	32.11	3	Vertical	129	2.71	-
AV	2.3862G	52.31	54.00	-1.69	32.11	3	Vertical	129	2.71	-
PK	2.413G	117.52	Inf	-Inf	32.20	3	Vertical	129	2.71	-
AV	2.4112G	113.46	Inf	-Inf	32.19	3	Vertical	129	2.71	-

802.11b_Nss1,(1Mbps)_2TX

29/10/2018

2412MHz_TX



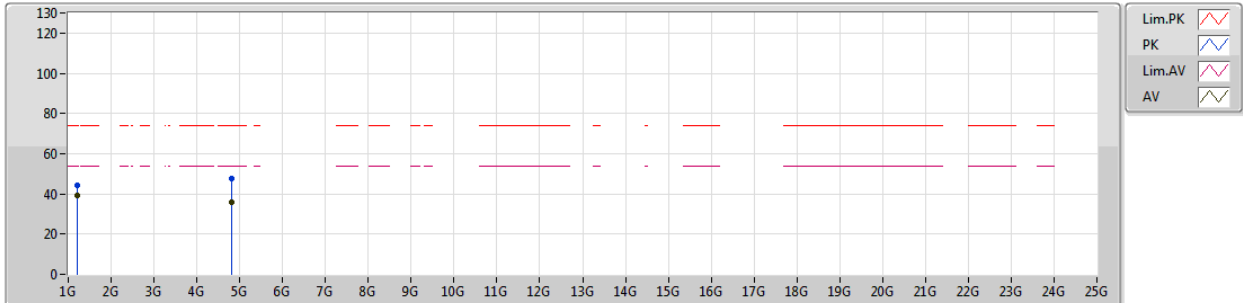
EUT Y_2TX
Setting 26
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	1.20502G	45.64	74.00	-28.36	-7.97	3	Vertical	208	1.70	-
AV	1.2067G	40.33	54.00	-13.67	-7.95	3	Vertical	208	1.70	-
PK	4.82384G	48.14	74.00	-25.86	5.14	3	Vertical	211	1.74	-
AV	4.82396G	36.95	54.00	-17.05	5.14	3	Vertical	211	1.74	-

802.11b_Nss1,(1Mbps)_2TX

29/10/2018

2412MHz_TX



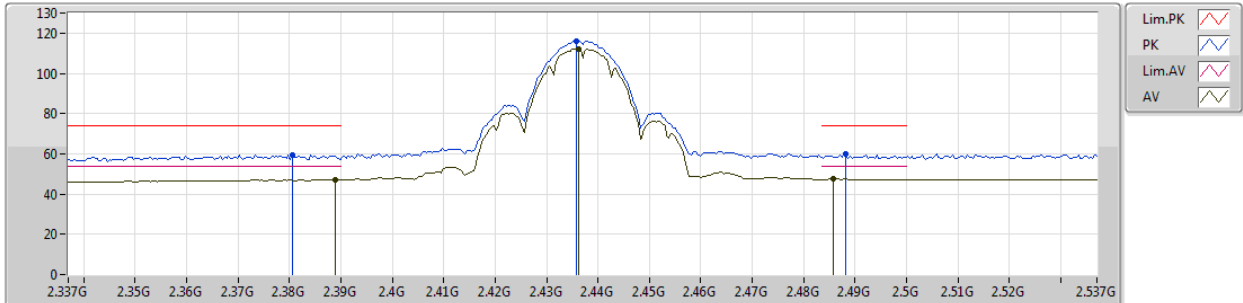
EUT Y_2TX
Setting 26
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
PK	1.207G	44.36	74.00	-29.64	-7.95	3	Horizontal	222	1.28	-								
AV	1.20672G	39.47	54.00	-14.53	-7.95	3	Horizontal	222	1.28	-								
PK	4.82376G	47.63	74.00	-26.37	5.14	3	Horizontal	257	2.98	-								
AV	4.8239G	35.87	54.00	-18.13	5.14	3	Horizontal	257	2.98	-								

802.11b_Nss1,(1Mbps)_2TX

25/10/2018

2437MHz_TX



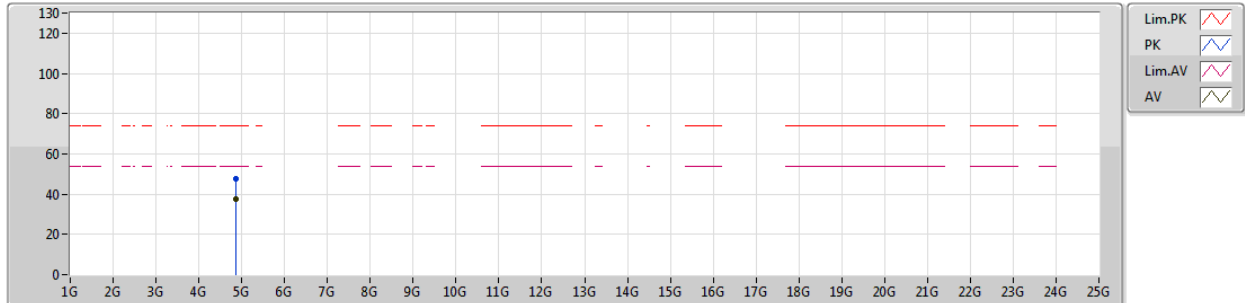
EUT Y_2TX
Setting 26
02-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3806G	59.51	74.00	-14.49	31.48	3	Vertical	229	1.25	-
AV	2.389G	47.24	54.00	-6.76	31.50	3	Vertical	229	1.25	-
PK	2.4358G	116.17	Inf	-Inf	31.61	3	Vertical	229	1.25	-
AV	2.4362G	112.23	Inf	-Inf	31.62	3	Vertical	229	1.25	-
PK	2.4882G	59.73	74.00	-14.27	31.74	3	Vertical	229	1.25	-
AV	2.4858G	47.64	54.00	-6.36	31.73	3	Vertical	229	1.25	-

802.11b_Nss1,(1Mbps)_2TX

29/10/2018

2437MHz_TX



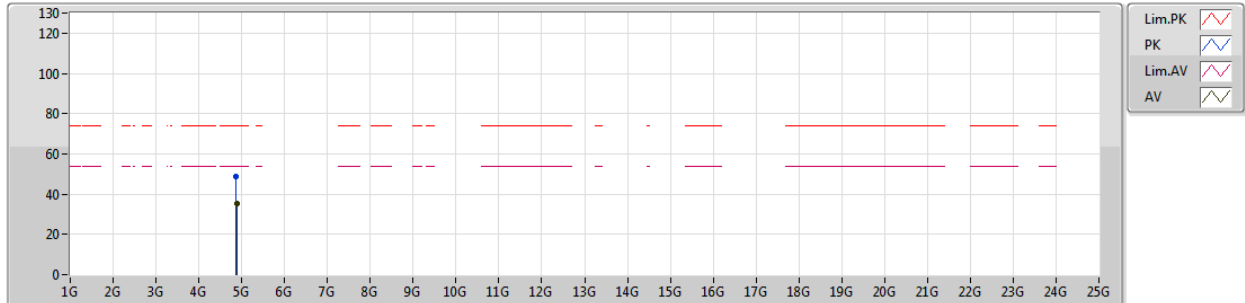
EUT Y_2TX
Setting 26
03-R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments						
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)							
PK	4.87406G	47.59	74.00	-26.41	5.35	3	Vertical	209	1.92	-						
AV	4.87394G	37.36	54.00	-16.64	5.35	3	Vertical	209	1.92	-						

802.11b_Nss1,(1Mbps)_2TX

29/10/2018

2437MHz_TX



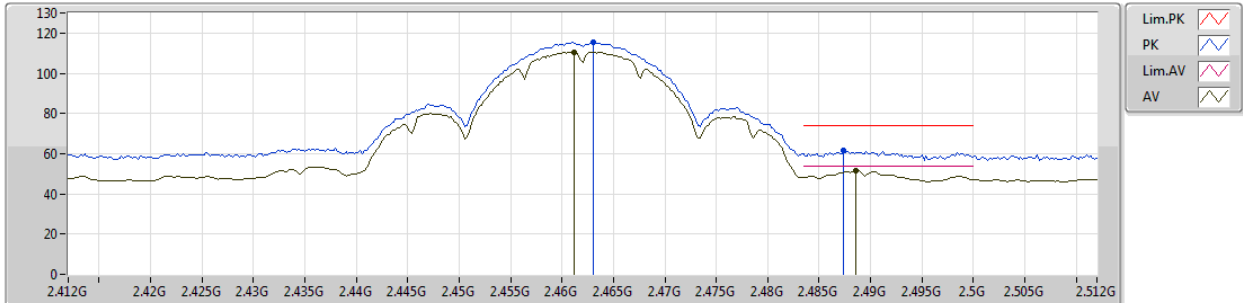
EUT Y_2TX
Setting 26
04-E-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.8706G	48.80	74.00	-25.20	5.45	3	Horizontal	130	1.50	-
AV	4.8888G	35.45	54.00	-18.55	5.45	3	Horizontal	130	1.50	-

802.11b_Nss1,(1Mbps)_2TX

04/10/2018

2462MHz_TX



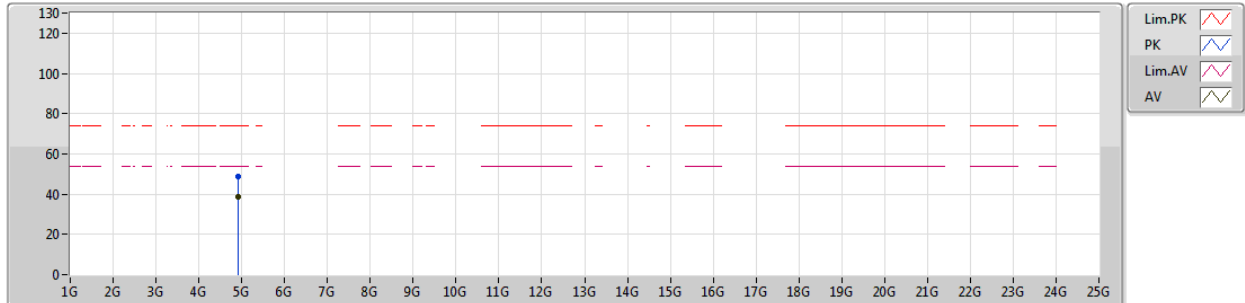
EUT Y_2TX
Setting 26
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.463G	115.43	Inf	-Inf	32.35	3	Vertical	333	1.99	-
AV	2.4612G	110.58	Inf	-Inf	32.35	3	Vertical	333	1.99	-
PK	2.4874G	61.67	74.00	-12.33	32.42	3	Vertical	333	1.99	-
AV	2.4886G	51.44	54.00	-2.56	32.43	3	Vertical	333	1.99	-

802.11b_Nss1,(1Mbps)_2TX

29/10/2018

2462MHz_TX



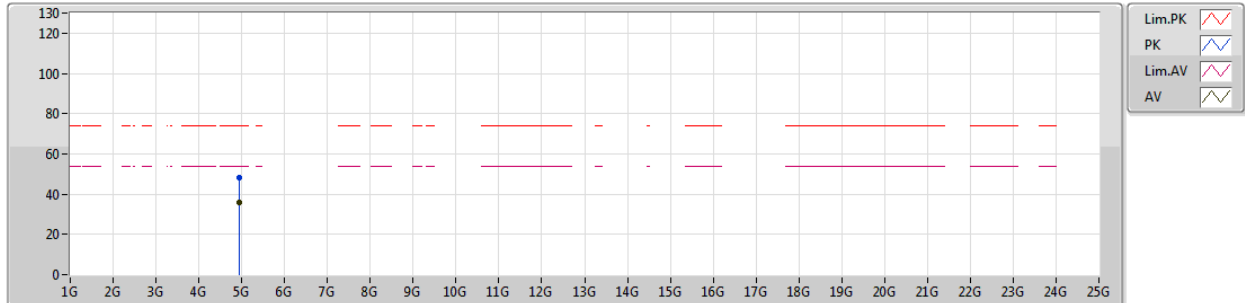
EUT Y_2TX
Setting 26
03-R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.92389G	48.52	74.00	-25.48	5.56	3	Vertical	212	1.90	-
AV	4.9239G	38.70	54.00	-15.30	5.56	3	Vertical	212	1.90	-

802.11b_Nss1,(1Mbps)_2TX

29/10/2018

2462MHz_TX



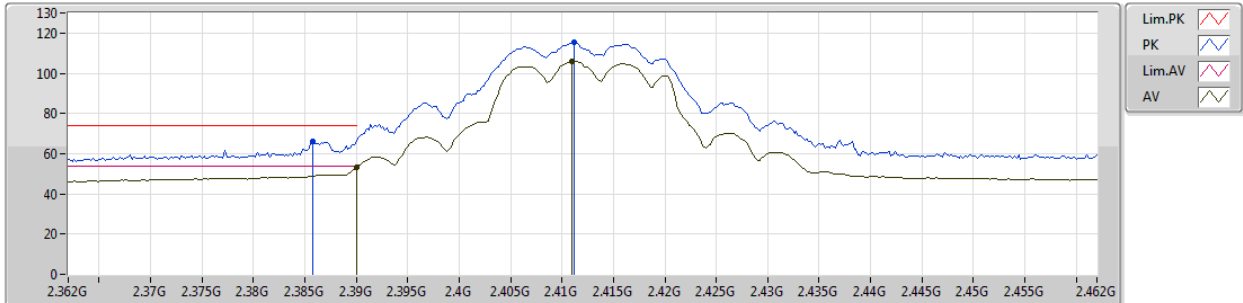
EUT Y_2TX
Setting 26
04-E-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments						
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)							
PK	4.9487G	48.09	74.00	-25.91	5.62	3	Horizontal	123	1.10	-						
AV	4.9484G	36.03	54.00	-17.97	5.62	3	Horizontal	123	1.10	-						

802.11g_Nss1,(6Mbps)_2TX

04/10/2018

2412MHz_TX



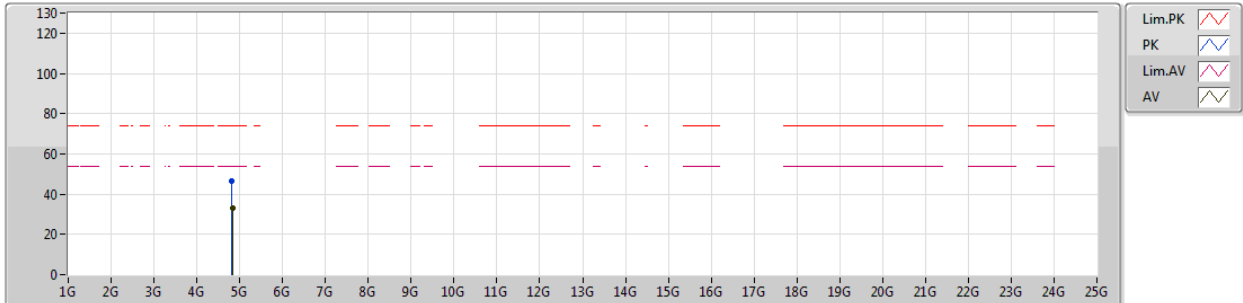
EUT Y_2TX
Setting 1E
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3858G	66.19	74.00	-7.81	32.11	3	Vertical	89	2.49	-
AV	2.39G	52.99	54.00	-1.01	32.13	3	Vertical	89	2.49	-
PK	2.4112G	115.38	Inf	-Inf	32.19	3	Vertical	89	2.49	-
AV	2.411G	105.99	Inf	-Inf	32.19	3	Vertical	89	2.49	-

802.11g_Nss1,(6Mbps)_2TX

25/10/2018

2412MHz_TX



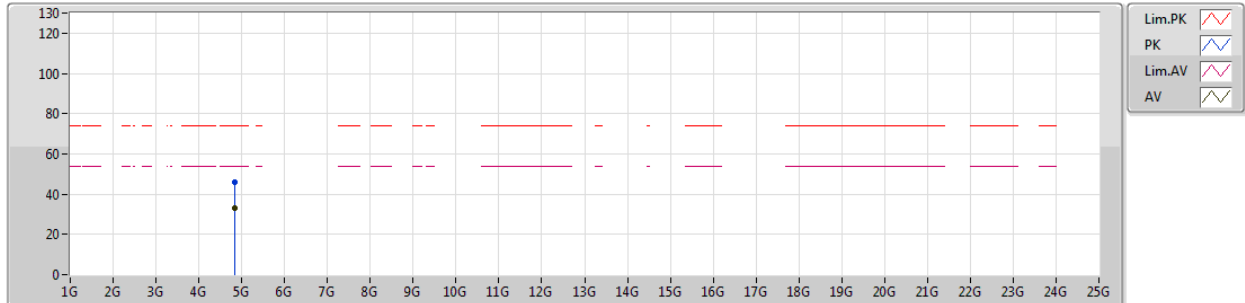
EUT Y_2TX
Setting 1E
03-R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.81788G	46.63	74.00	-27.37	7.91	3	Vertical	126	1.46	-
AV	4.82814G	33.11	54.00	-20.89	7.94	3	Vertical	126	1.46	-

802.11g_Nss1,(6Mbps)_2TX

25/10/2018

2412MHz_TX



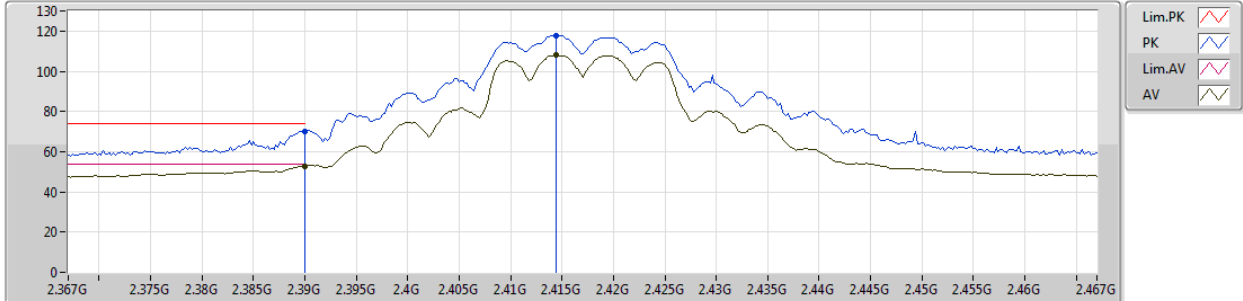
EUT Y_2TX
Setting 1E
03-R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.82838G	46.09	74.00	-27.91	7.94	3	Horizontal	135	1.37	-
AV	4.83726G	32.81	54.00	-21.19	7.95	3	Horizontal	135	1.37	-

802.11g_Nss1,(6Mbps)_2TX

04/10/2018

2417MHz_TX



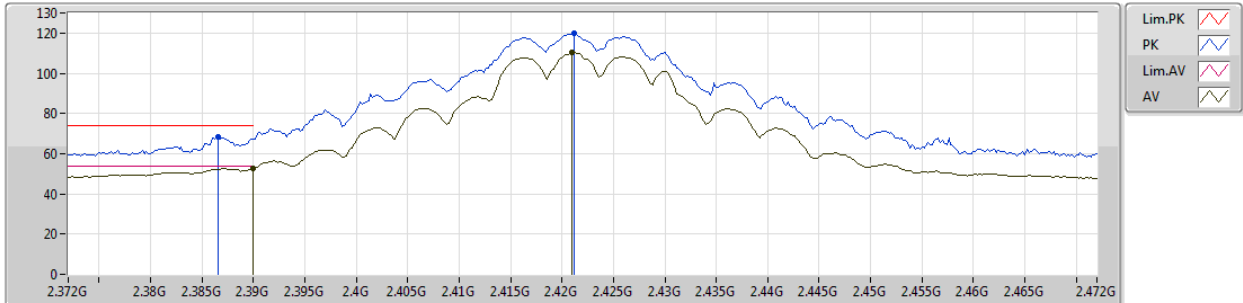
EUT Y_2TX
Setting 23
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.39G	70.26	74.00	-3.74	32.13	3	Vertical	266	1.89	-
AV	2.39G	52.88	54.00	-1.12	32.13	3	Vertical	266	1.89	-
PK	2.4144G	117.83	Inf	-Inf	32.20	3	Vertical	266	1.89	-
AV	2.4144G	108.04	Inf	-Inf	32.20	3	Vertical	266	1.89	-

802.11g_Nss1,(6Mbps)_2TX

04/10/2018

2422MHz_TX



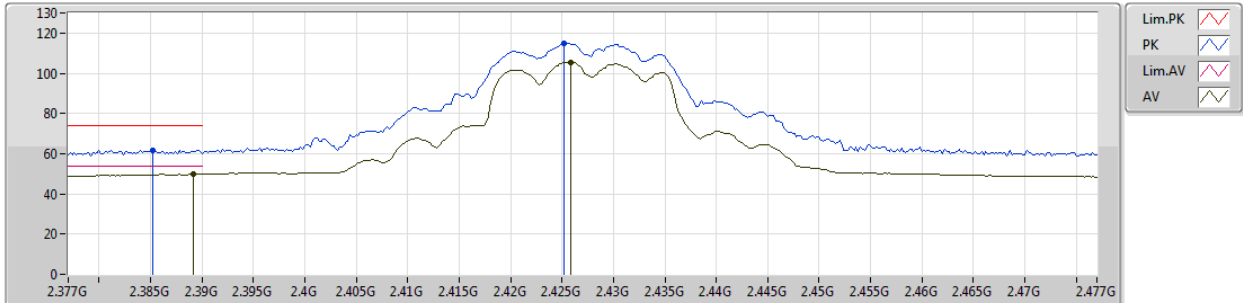
EUT Y_2TX
Setting 26
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
PK	2.3866G	68.13	74.00	-5.87	32.12	3	Vertical	90	2.53	-								
AV	2.39G	52.67	54.00	-1.33	32.13	3	Vertical	90	2.53	-								
PK	2.4212G	119.78	Inf	-Inf	32.22	3	Vertical	90	2.53	-								
AV	2.421G	110.26	Inf	-Inf	32.22	3	Vertical	90	2.53	-								

802.11g_Nss1,(6Mbps)_2TX

25/10/2018

2427MHz_TX



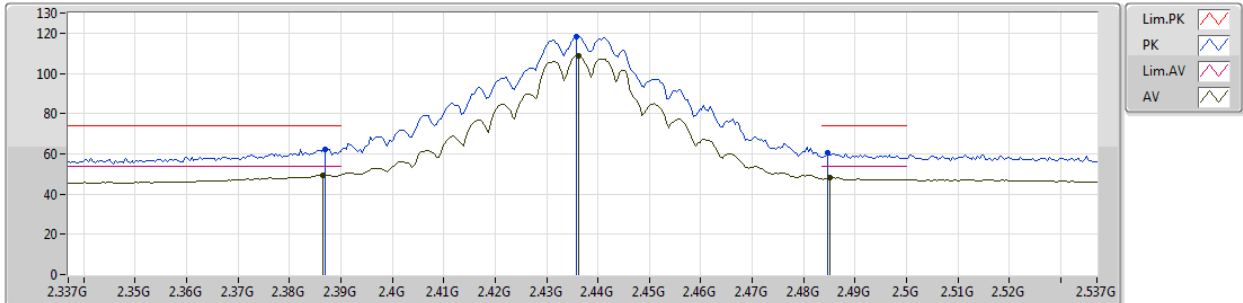
EUT Y_2TX
Setting 28
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3852G	61.84	74.00	-12.16	32.11	3	Vertical	98	1.46	-
AV	2.3892G	49.79	54.00	-4.21	32.13	3	Vertical	98	1.46	-
PK	2.4252G	114.88	Inf	-Inf	32.23	3	Vertical	98	1.46	-
AV	2.4258G	105.57	Inf	-Inf	32.23	3	Vertical	98	1.46	-

802.11g_Nss1,(6Mbps)_2TX

04/10/2018

2437MHz_TX



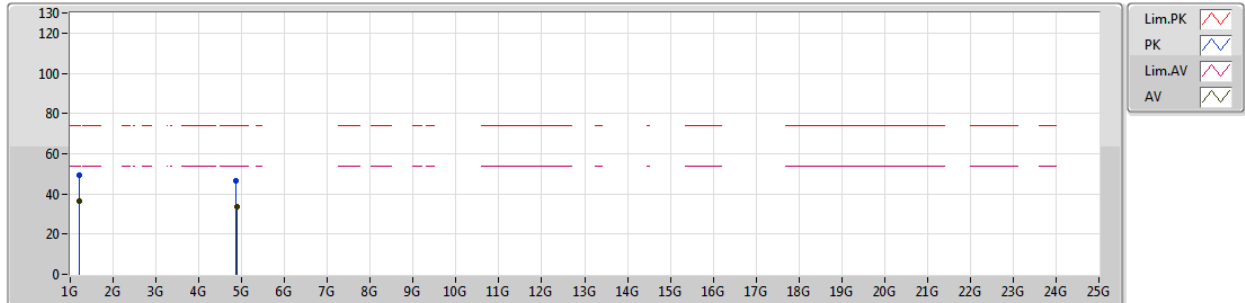
EUT Y_2TX
Setting 28
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.387G	62.44	74.00	-11.56	32.12	3	Vertical	341	1.99	-
AV	2.3866G	49.47	54.00	-4.53	32.12	3	Vertical	341	1.99	-
PK	2.4358G	118.44	Inf	-Inf	32.27	3	Vertical	341	1.99	-
AV	2.4362G	108.74	Inf	-Inf	32.27	3	Vertical	341	1.99	-
PK	2.4846G	60.28	74.00	-13.72	32.42	3	Vertical	341	1.99	-
AV	2.485G	48.16	54.00	-5.84	32.42	3	Vertical	341	1.99	-

802.11g_Nss1,(6Mbps)_2TX

29/10/2018

2437MHz_TX



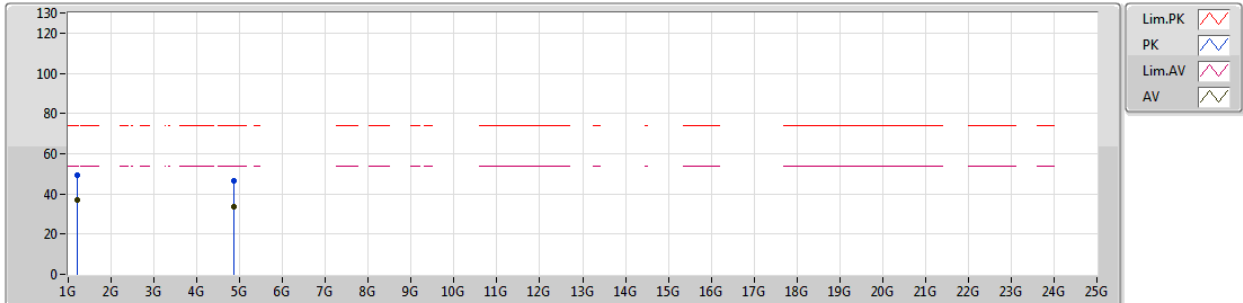
EUT Y_2TX
Setting 28
04-E-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	1.22226G	49.12	74.00	-24.88	-7.74	3	Vertical	249	1.60	-
AV	1.21786G	36.52	54.00	-17.48	-7.80	3	Vertical	249	1.60	-
PK	4.87706G	46.42	74.00	-27.58	5.45	3	Vertical	229	2.17	-
AV	4.87766G	33.50	54.00	-20.50	5.45	3	Vertical	229	2.17	-

802.11g_Nss1,(6Mbps)_2TX

29/10/2018

2437MHz_TX



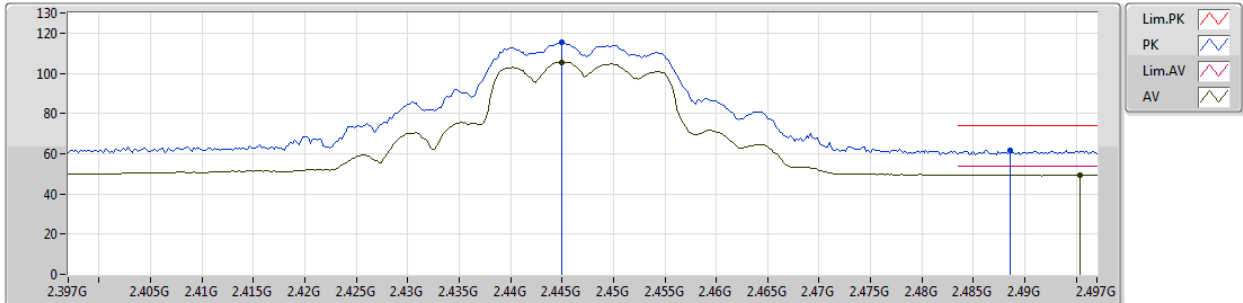
EUT Y_2TX
Setting 28
04-E-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	1.21596G	49.09	74.00	-24.91	-7.83	3	Horizontal	135	1.01	-
AV	1.22076G	37.24	54.00	-16.76	-7.77	3	Horizontal	135	1.01	-
PK	4.8727G	46.39	74.00	-27.61	5.45	3	Horizontal	223	1.02	-
AV	4.8727G	33.38	54.00	-20.62	5.45	3	Horizontal	223	1.02	-

802.11g_Nss1,(6Mbps)_2TX

25/10/2018

2447MHz_TX



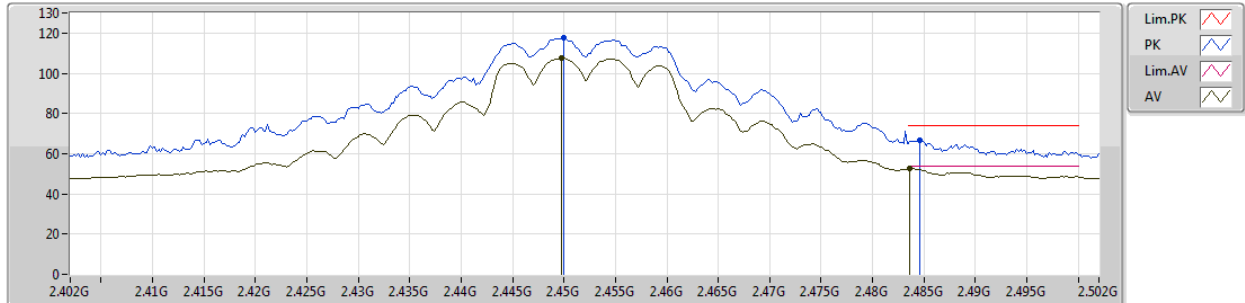
EUT Y_2TX
Setting 28
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.445G	115.30	Inf	-Inf	32.29	3	Vertical	172	2.46	-
AV	2.445G	105.62	Inf	-Inf	32.29	3	Vertical	172	2.46	-
PK	2.4886G	61.87	74.00	-12.13	32.43	3	Vertical	172	2.46	-
AV	2.4954G	49.59	54.00	-4.41	32.45	3	Vertical	172	2.46	-

802.11g_Nss1,(6Mbps)_2TX

04/10/2018

2452MHz_TX



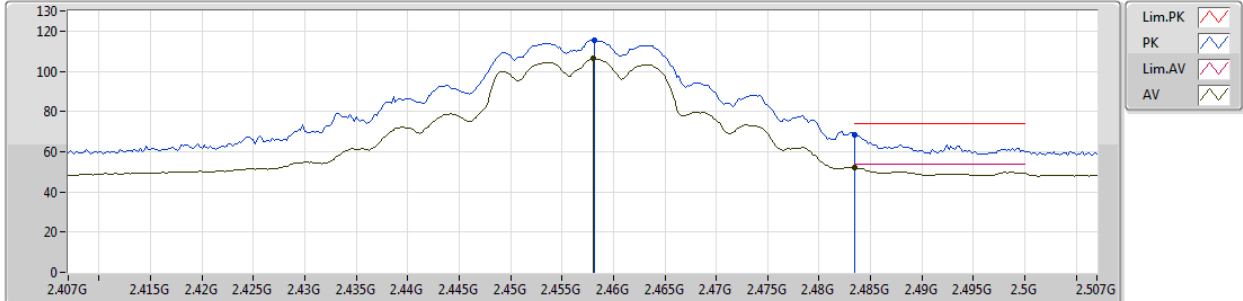
EUT Y_2TX
Setting 26
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.45G	117.49	Inf	-Inf	32.31	3	Vertical	166	1.78	-
AV	2.4498G	107.47	Inf	-Inf	32.30	3	Vertical	166	1.78	-
PK	2.4846G	66.78	74.00	-7.22	32.42	3	Vertical	166	1.78	-
AV	2.4836G	52.64	54.00	-1.36	32.42	3	Vertical	166	1.78	-

802.11g_Nss1,(6Mbps)_2TX

04/10/2018

2457MHz_TX



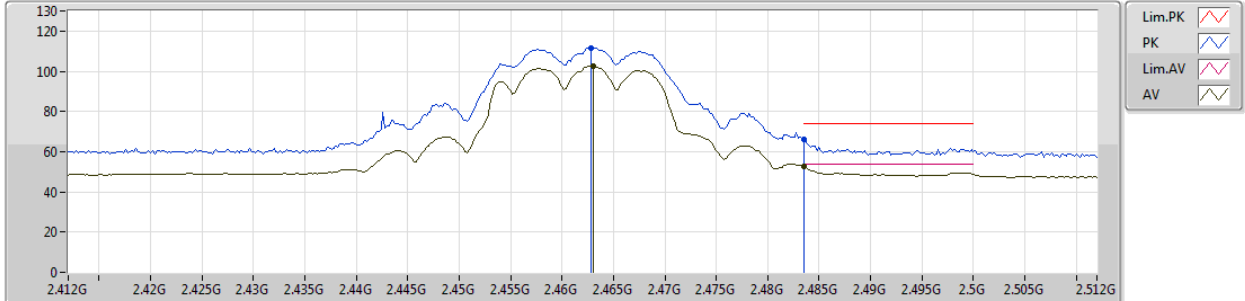
EUT Y_2TX
Setting 23
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4582G	115.28	Inf	-Inf	32.33	3	Vertical	160	1.48	-
AV	2.458G	106.26	Inf	-Inf	32.33	3	Vertical	160	1.48	-
PK	2.4835G	68.51	74.00	-5.49	32.42	3	Vertical	160	1.48	-
AV	2.4835G	52.24	54.00	-1.76	32.42	3	Vertical	160	1.48	-

802.11g_Nss1,(6Mbps)_2TX

04/10/2018

2462MHz_TX



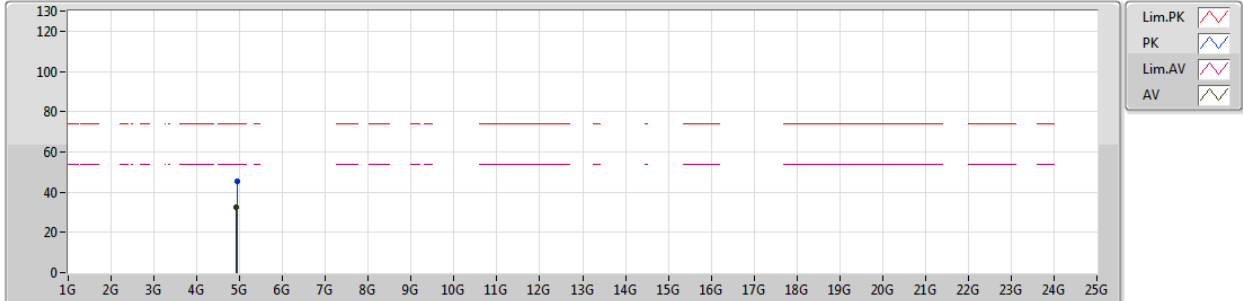
EUT Y_2TX
Setting 1A
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4628G	111.77	Inf	-Inf	32.35	3	Vertical	137	2.44	-
AV	2.463G	102.82	Inf	-Inf	32.35	3	Vertical	137	2.44	-
PK	2.4835G	66.14	74.00	-7.86	32.42	3	Vertical	137	2.44	-
AV	2.4835G	52.48	54.00	-1.52	32.42	3	Vertical	137	2.44	-

802.11g_Nss1,(6Mbps)_2TX

29/10/2018

2462MHz_TX



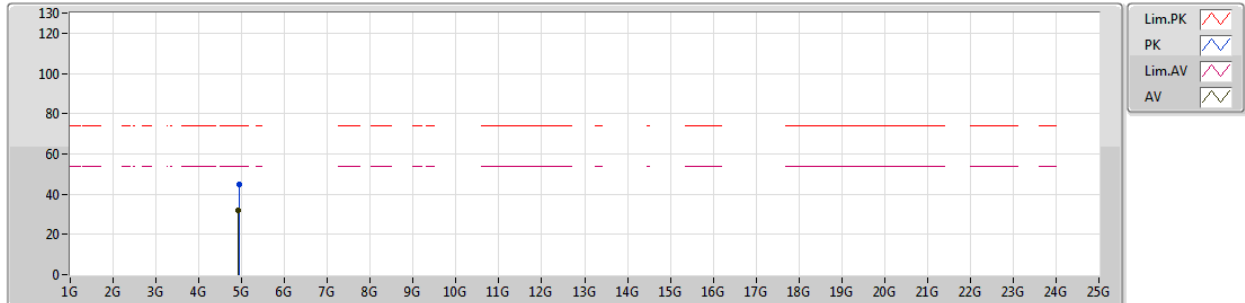
EUT Y_2TX
Setting 1A
04-E-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.93018G	45.65	74.00	-28.35	5.55	3	Vertical	123	1.60	-
AV	4.92796G	32.56	54.00	-21.44	5.54	3	Vertical	123	1.60	-

802.11g_Nss1,(6Mbps)_2TX

29/10/2018

2462MHz_TX



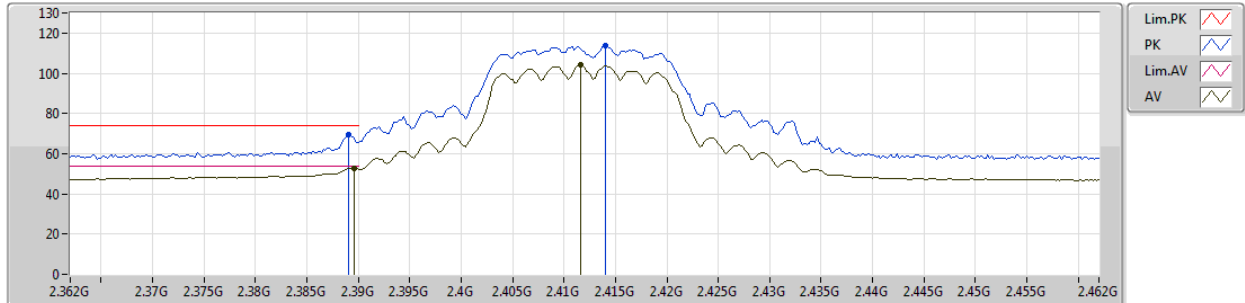
EUT Y_2TX
Setting 1A
04-E-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments						
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)							
PK	4.93282G	44.62	74.00	-29.38	5.56	3	Horizontal	84	2.99	-						
AV	4.91836G	32.04	54.00	-21.96	5.51	3	Horizontal	84	2.99	-						

802.11n HT20_Nss1,(MCS0)_2TX

04/10/2018

2412MHz_TX



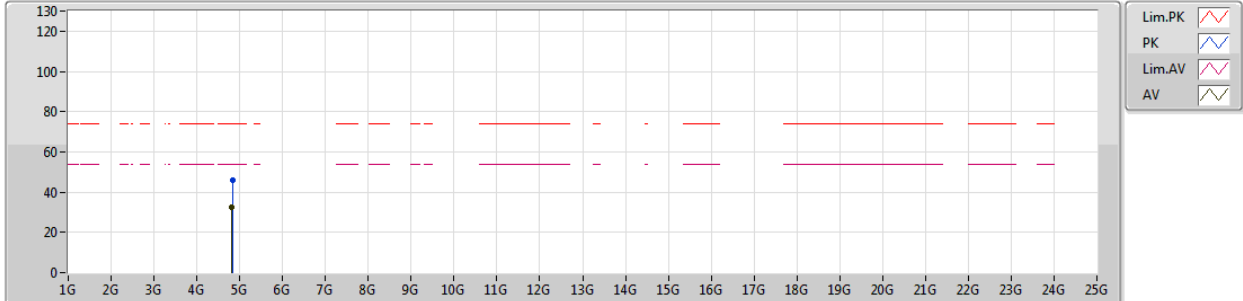
EUT Y_2TX
Setting 18
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.389G	69.46	74.00	-4.54	32.13	3	Vertical	107	2.56	-
AV	2.3896G	52.91	54.00	-1.09	32.13	3	Vertical	107	2.56	-
PK	2.414G	113.63	Inf	-Inf	32.20	3	Vertical	107	2.56	-
AV	2.4116G	103.95	Inf	-Inf	32.19	3	Vertical	107	2.56	-

802.11n HT20_Nss1,(MCS0)_2TX

29/10/2018

2412MHz_TX



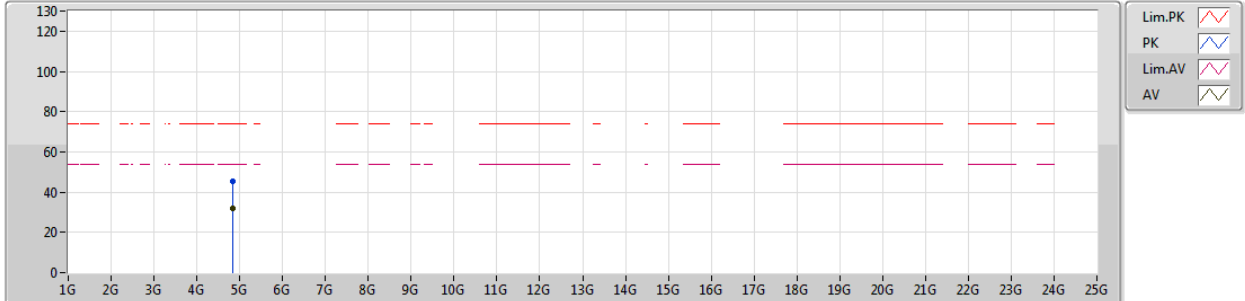
EUT Y_2TX
Setting 1B
04-E-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments						
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)							
PK	4.8261G	46.03	74.00	-27.97	5.48	3	Vertical	226	1.06	-						
AV	4.8186G	32.53	54.00	-21.47	5.48	3	Vertical	226	1.06	-						

802.11n HT20_Nss1,(MCS0)_2TX

29/10/2018

2412MHz_TX



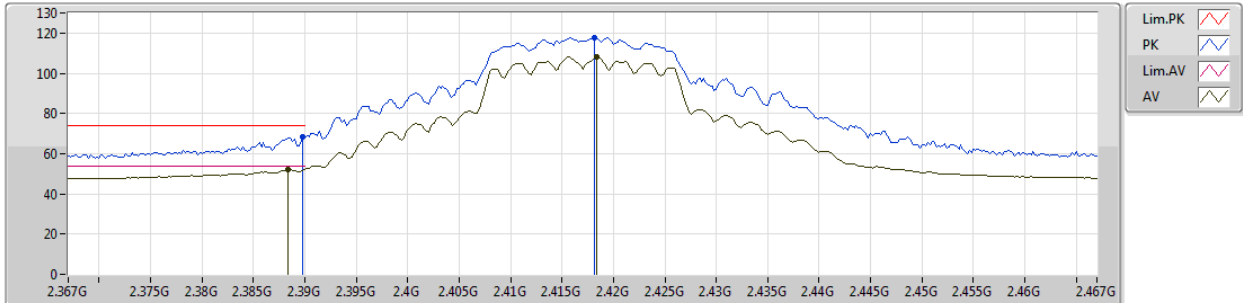
EUT Y_2TX
Setting 1B
04-E-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.82628G	45.11	74.00	-28.89	5.48	3	Horizontal	85	2.70	-
AV	4.82856G	31.71	54.00	-22.29	5.48	3	Horizontal	85	2.70	-

802.11n HT20_Nss1,(MCS0)_2TX

04/10/2018

2417MHz_TX



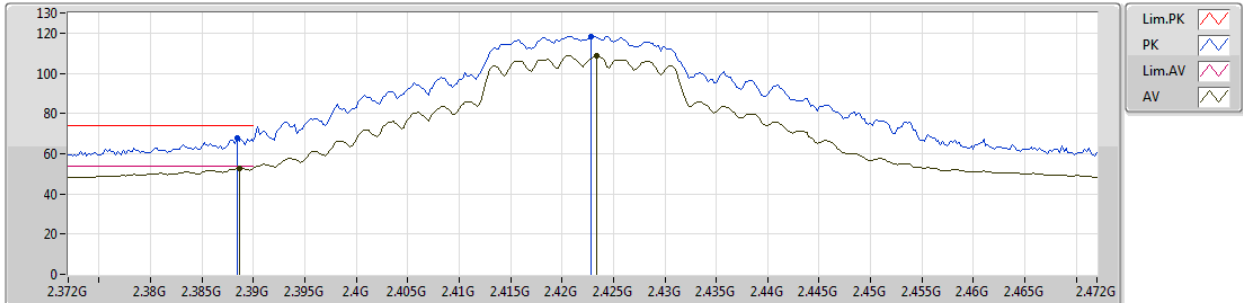
EUT Y_2TX
Setting 23
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3898G	68.39	74.00	-5.61	32.13	3	Vertical	280	1.76	-
AV	2.3884G	52.09	54.00	-1.91	32.13	3	Vertical	280	1.76	-
PK	2.4182G	117.74	Inf	-Inf	32.22	3	Vertical	280	1.76	-
AV	2.4184G	107.98	Inf	-Inf	32.22	3	Vertical	280	1.76	-

802.11n HT20_Nss1,(MCS0)_2TX

04/10/2018

2422MHz_TX



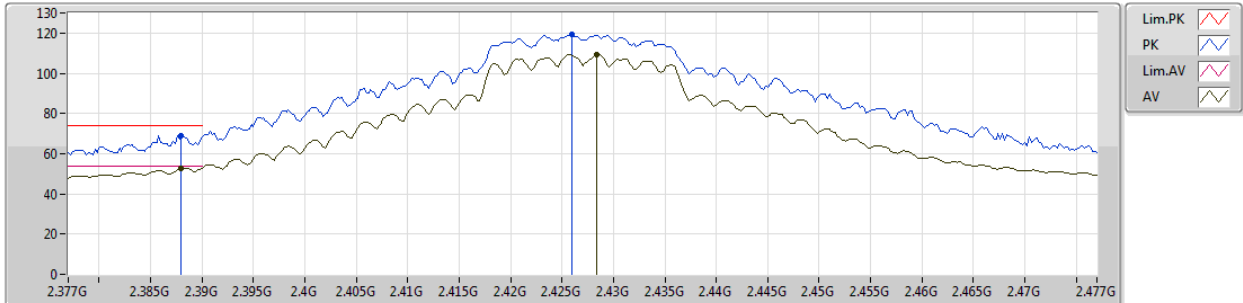
EUT Y_2TX
Setting 26
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3884G	67.74	74.00	-6.26	32.13	3	Vertical	279	1.72	-
AV	2.3886G	52.75	54.00	-1.25	32.13	3	Vertical	279	1.72	-
PK	2.4228G	118.33	Inf	-Inf	32.23	3	Vertical	279	1.72	-
AV	2.4234G	108.72	Inf	-Inf	32.23	3	Vertical	279	1.72	-

802.11n HT20_Nss1,(MCS0)_2TX

04/10/2018

2427MHz_TX



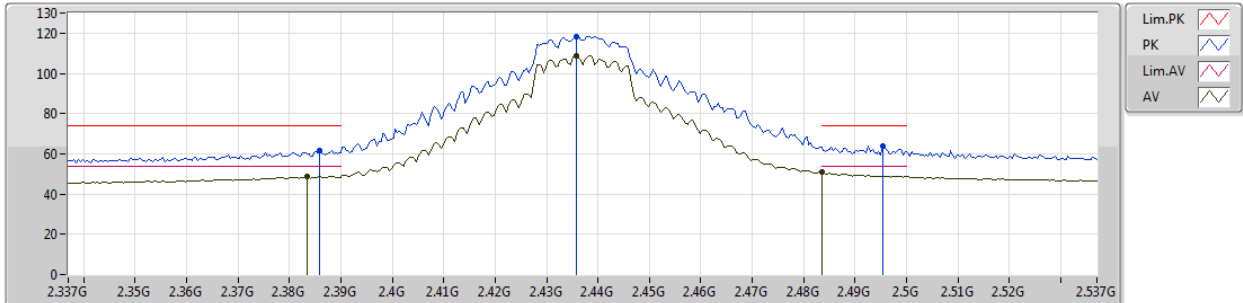
EUT Y_2TX
Setting 28
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.388G	69.18	74.00	-4.82	32.13	3	Vertical	273	1.93	-
AV	2.388G	52.86	54.00	-1.14	32.13	3	Vertical	273	1.93	-
PK	2.426G	119.26	Inf	-Inf	32.23	3	Vertical	273	1.93	-
AV	2.4264G	109.23	Inf	-Inf	32.25	3	Vertical	273	1.93	-

802.11n HT20_Nss1,(MCS0)_2TX

04/10/2018

2437MHz_TX



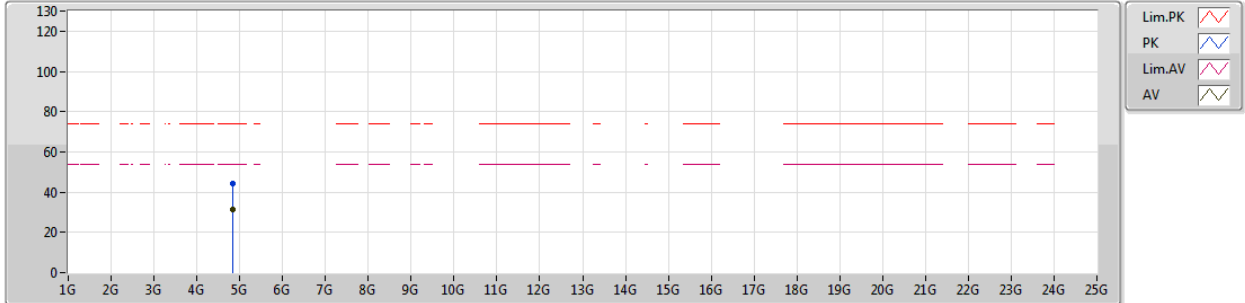
EUT Y_2TX
Setting 28
03-R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.3858G	61.47	74.00	-12.53	32.11	3	Vertical	276	1.86	-
AV	2.3834G	48.70	54.00	-5.30	32.11	3	Vertical	276	1.86	-
PK	2.4358G	118.50	Inf	-Inf	32.27	3	Vertical	276	1.86	-
AV	2.4358G	108.67	Inf	-Inf	32.27	3	Vertical	276	1.86	-
PK	2.4954G	63.91	74.00	-10.09	32.45	3	Vertical	276	1.86	-
AV	2.4835G	50.76	54.00	-3.24	32.42	3	Vertical	276	1.86	-

802.11n HT20_Nss1,(MCS0)_2TX

29/10/2018

2437MHz_TX



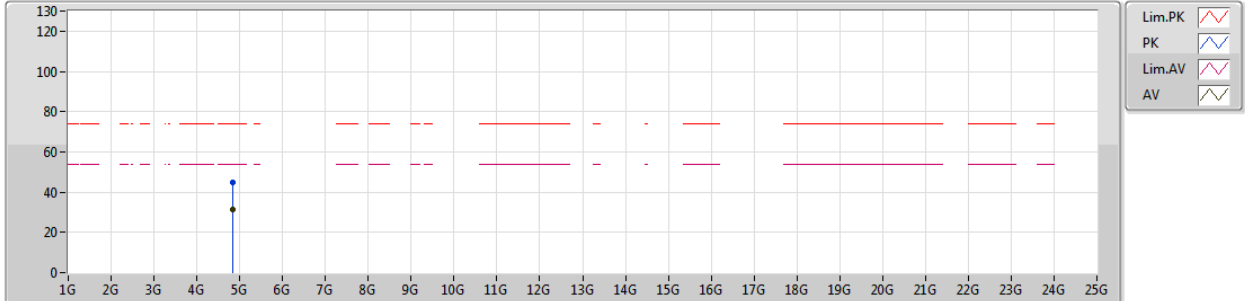
EUT Y_2TX
Setting 28
04-E-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.8372G	44.32	74.00	-29.68	5.47	3	Vertical	2	1.64	-
AV	4.8297G	31.35	54.00	-22.65	5.48	3	Vertical	2	1.64	-

802.11n HT20_Nss1,(MCS0)_2TX

29/10/2018

2437MHz_TX



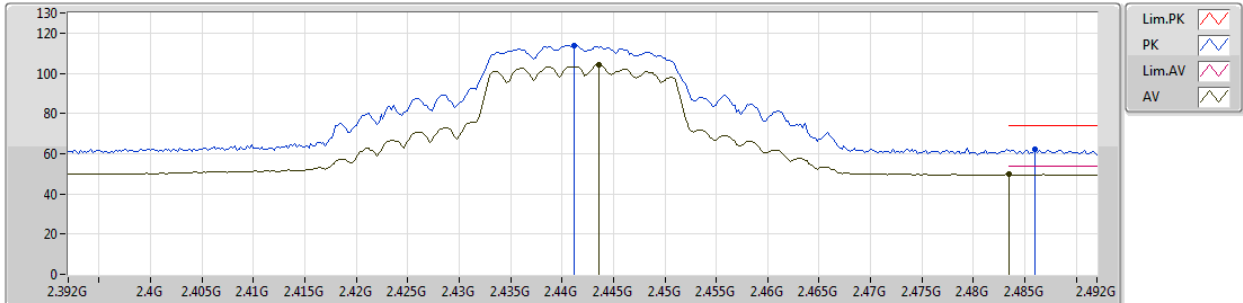
EUT Y_2TX
Setting 28
04-E-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.8356G	45.04	74.00	-28.96	5.47	3	Horizontal	284	1.50	-
AV	4.8371G	31.43	54.00	-22.57	5.47	3	Horizontal	284	1.50	-

802.11n HT20_Nss1,(MCS0)_2TX

2442MHz_TX

25/10/2018



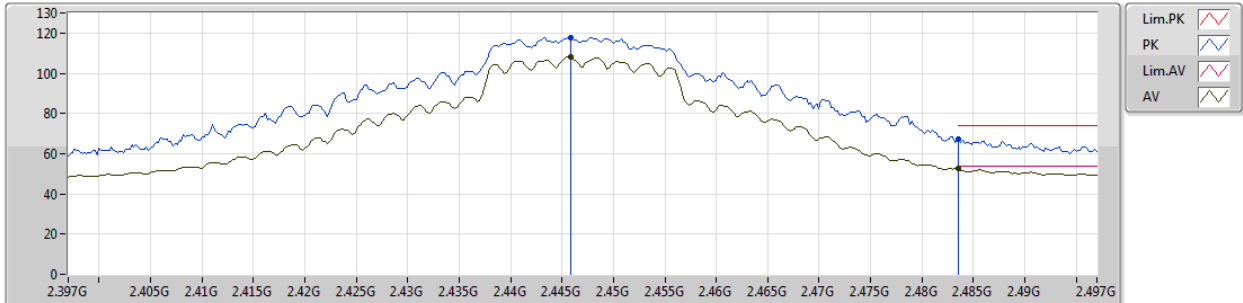
EUT Y_2TX
Setting 28
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4412G	113.94	Inf	-Inf	32.29	3	Vertical	169	2.40	-
AV	2.4436G	104.16	Inf	-Inf	32.29	3	Vertical	169	2.40	-
PK	2.486G	62.08	74.00	-11.92	32.42	3	Vertical	169	2.40	-
AV	2.4835G	49.65	54.00	-4.35	32.42	3	Vertical	169	2.40	-

802.11n HT20_Nss1,(MCS0)_2TX

04/10/2018

2447MHz_TX



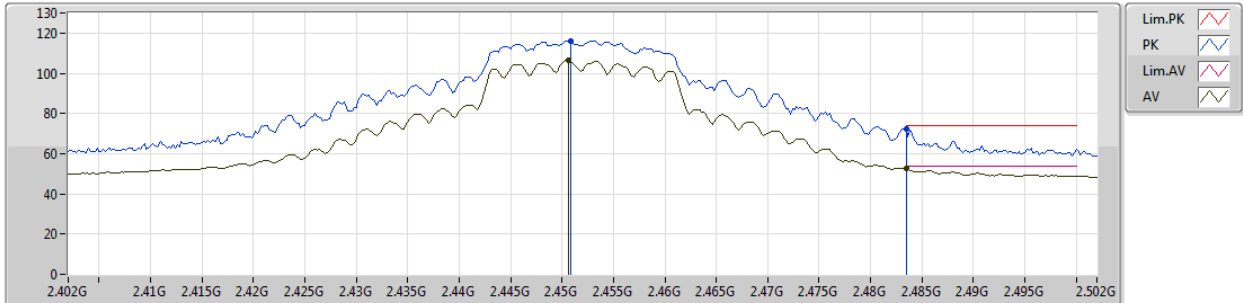
EUT Y_2TX
Setting 27
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4458G	117.75	Inf	-Inf	32.30	3	Vertical	276	1.90	-
AV	2.4458G	108.16	Inf	-Inf	32.30	3	Vertical	276	1.90	-
PK	2.4835G	67.20	74.00	-6.80	32.42	3	Vertical	276	1.90	-
AV	2.4835G	52.42	54.00	-1.58	32.42	3	Vertical	276	1.90	-

802.11n HT20_Nss1,(MCS0)_2TX

04/10/2018

2452MHz_TX



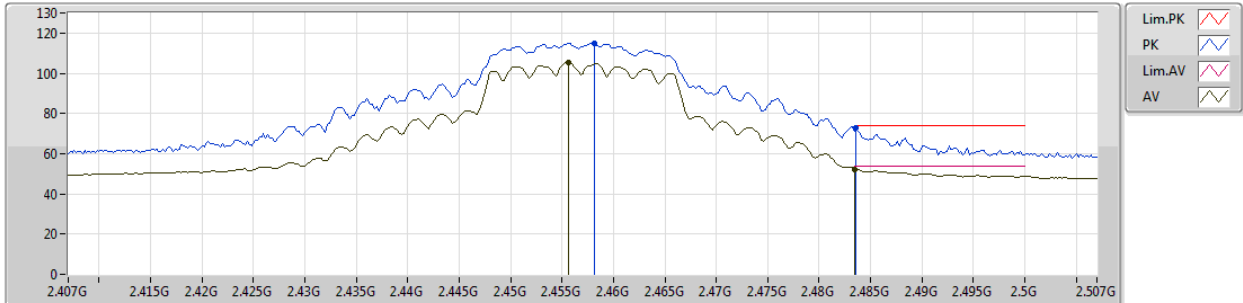
EUT Y_2TX
Setting 25
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4508G	115.87	Inf	-Inf	32.32	3	Vertical	167	1.85	-
AV	2.4506G	106.52	Inf	-Inf	32.32	3	Vertical	167	1.85	-
PK	2.4835G	72.12	74.00	-1.88	32.42	3	Vertical	167	1.85	-
AV	2.4835G	52.71	54.00	-1.29	32.42	3	Vertical	167	1.85	-

802.11n HT20_Nss1,(MCS0)_2TX

04/10/2018

2457MHz_TX



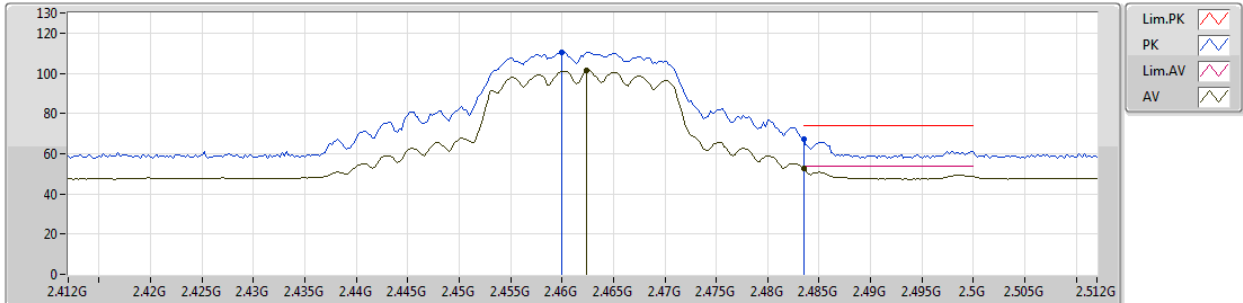
EUT Y_2TX
Setting 23
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4582G	114.87	Inf	-Inf	32.33	3	Vertical	166	1.84	-
AV	2.4556G	105.56	Inf	-Inf	32.33	3	Vertical	166	1.84	-
PK	2.4836G	72.83	74.00	-1.17	32.42	3	Vertical	166	1.84	-
AV	2.4835G	52.38	54.00	-1.62	32.42	3	Vertical	166	1.84	-

802.11n HT20_Nss1,(MCS0)_2TX

04/10/2018

2462MHz_TX



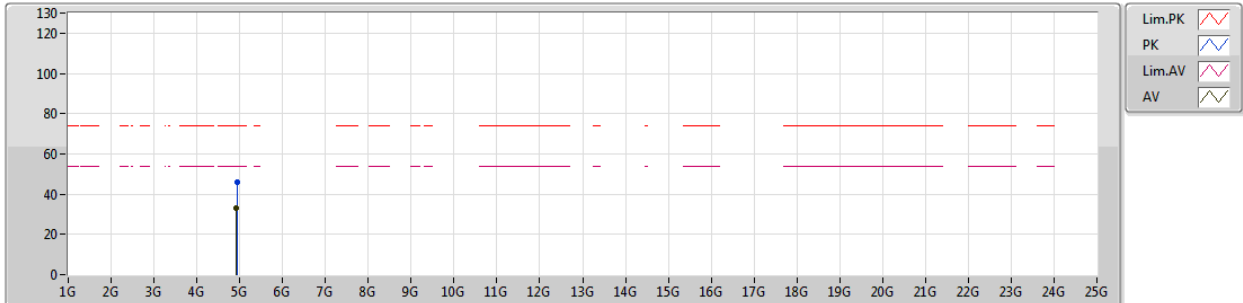
EUT Y_2TX
Setting 18
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.46G	110.52	Inf	-Inf	32.34	3	Vertical	148	1.47	-
AV	2.4624G	101.43	Inf	-Inf	32.35	3	Vertical	148	1.47	-
PK	2.4835G	66.97	74.00	-7.03	32.42	3	Vertical	148	1.47	-
AV	2.4835G	52.59	54.00	-1.41	32.42	3	Vertical	148	1.47	-

802.11n HT20_Nss1,(MCS0)_2TX

29/10/2018

2462MHz_TX



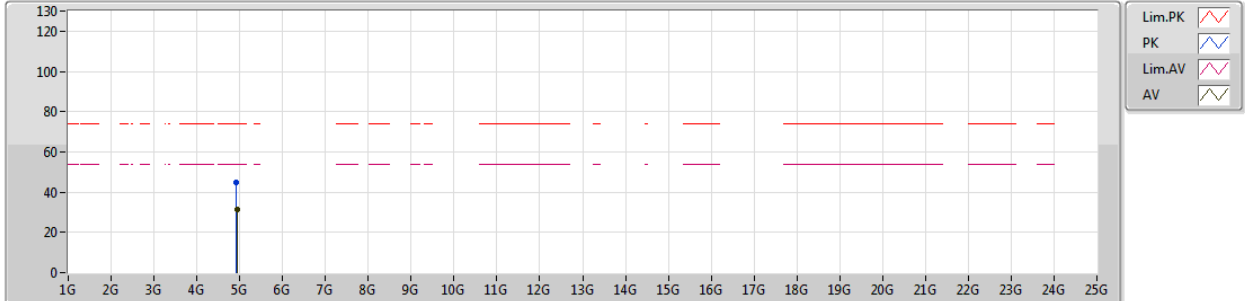
EUT Y_2TX
Setting 1B
04-E-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.93612G	45.79	74.00	-28.21	5.57	3	Vertical	224	2.22	-
AV	4.92604G	32.90	54.00	-21.10	5.54	3	Vertical	224	2.22	-

802.11n HT20_Nss1,(MCS0)_2TX

29/10/2018

2462MHz_TX



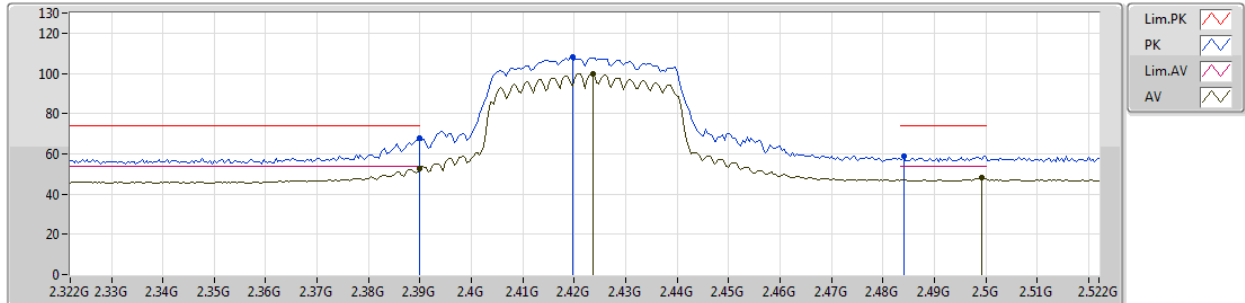
EUT Y_2TX
Setting 1B
04-E-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.92706G	44.73	74.00	-29.27	5.54	3	Horizontal	164	1.50	-
AV	4.93222G	31.50	54.00	-22.50	5.56	3	Horizontal	164	1.50	-

802.11n HT40_Nss1,(MCS0)_2TX

04/10/2018

2422MHz_TX



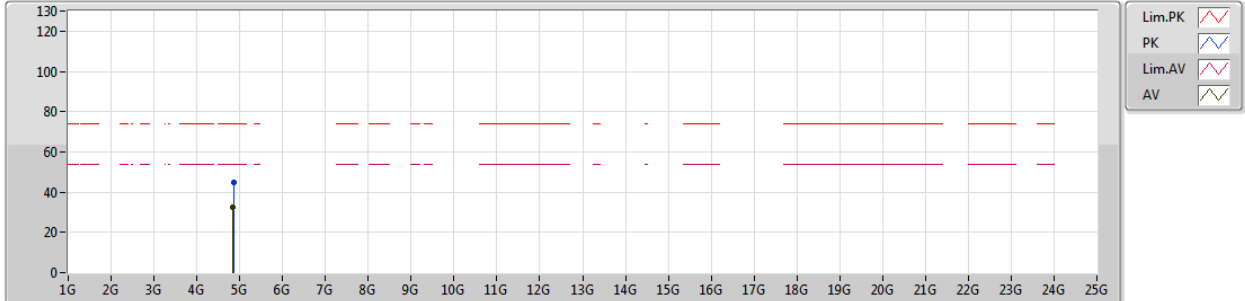
EUT Y_2TX
Setting 16
03-R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.39G	67.71	74.00	-6.29	32.13	3	Vertical	274	1.96	-
AV	2.39G	52.82	54.00	-1.18	32.13	3	Vertical	274	1.96	-
PK	2.4196G	108.40	Inf	-Inf	32.22	3	Vertical	274	1.96	-
AV	2.4236G	99.80	Inf	-Inf	32.23	3	Vertical	274	1.96	-
PK	2.484G	59.07	74.00	-14.93	32.42	3	Vertical	274	1.96	-
AV	2.4992G	47.91	54.00	-6.09	32.46	3	Vertical	274	1.96	-

802.11n HT40_Nss1,(MCS0)_2TX

29/10/2018

2422MHz_TX



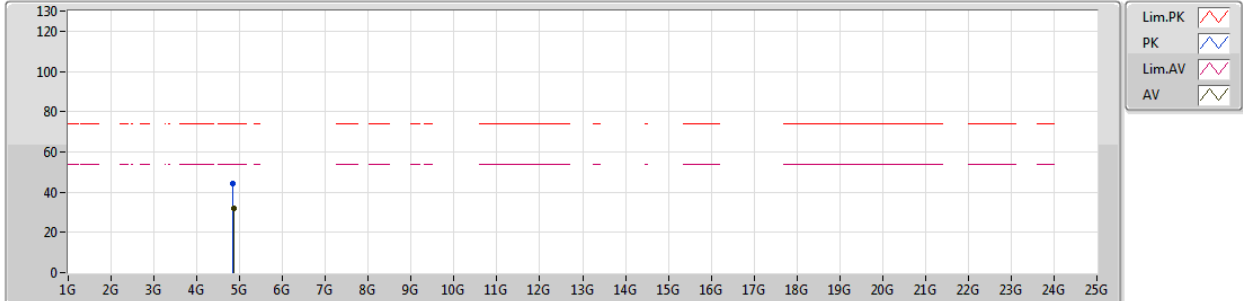
EUT Y_2TX
Setting 16
04-E-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.8554G	45.00	74.00	-29.00	5.46	3	Vertical	212	2.40	-
AV	4.8427G	32.63	54.00	-21.37	5.47	3	Vertical	212	2.40	-

802.11n HT40_Nss1,(MCS0)_2TX

29/10/2018

2422MHz_TX



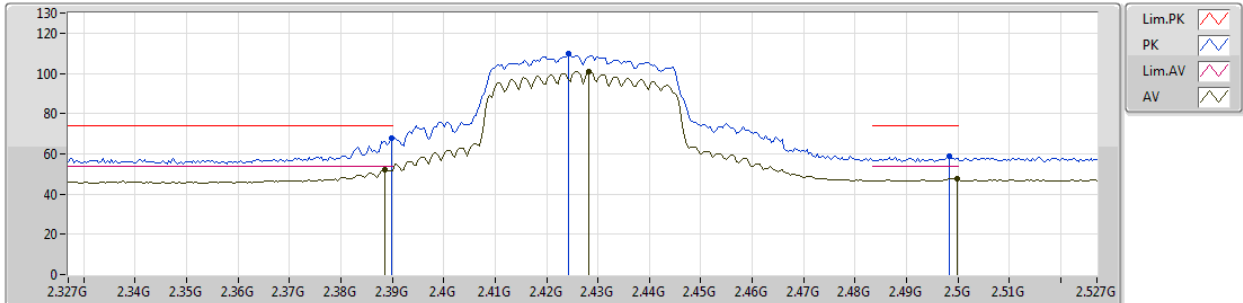
EUT Y_2TX
Setting 16
04-E-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.8475G	44.29	74.00	-29.71	5.46	3	Horizontal	49	1.50	-
AV	4.8522G	32.17	54.00	-21.83	5.47	3	Horizontal	49	1.50	-

802.11n HT40_Nss1,(MCS0)_2TX

04/10/2018

2427MHz_TX



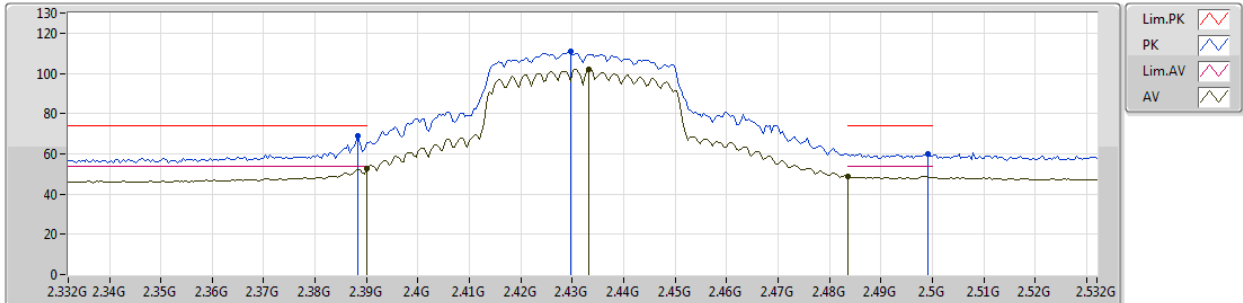
EUT Y_2TX
Setting 19
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3898G	67.82	74.00	-6.18	32.13	3	Vertical	280	1.50	-
AV	2.3886G	52.31	54.00	-1.69	32.13	3	Vertical	280	1.50	-
PK	2.4242G	109.61	Inf	-Inf	32.23	3	Vertical	280	1.50	-
AV	2.4282G	101.01	Inf	-Inf	32.25	3	Vertical	280	1.50	-
PK	2.4982G	58.74	74.00	-15.26	32.46	3	Vertical	280	1.50	-
AV	2.4998G	47.68	54.00	-6.32	32.46	3	Vertical	280	1.50	-

802.11n HT40_Nss1,(MCS0)_2TX

04/10/2018

2432MHz_TX



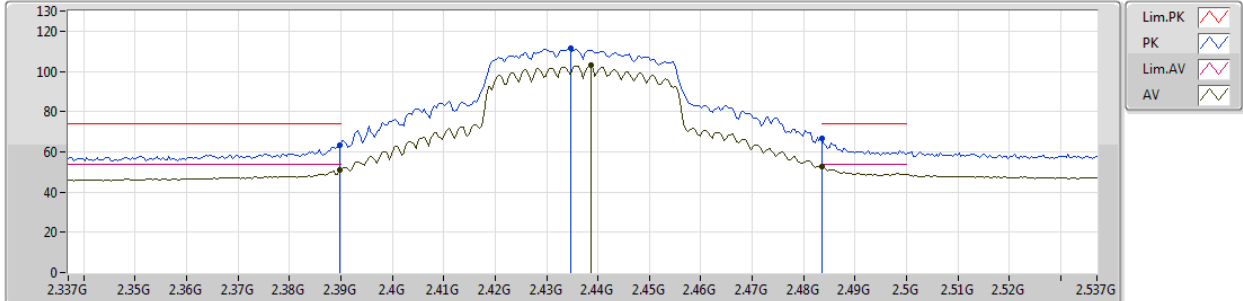
EUT Y_2TX
Setting 1C
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3884G	68.76	74.00	-5.24	32.13	3	Vertical	277	1.82	-
AV	2.39G	52.74	54.00	-1.26	32.13	3	Vertical	277	1.82	-
PK	2.4296G	110.68	Inf	-Inf	32.25	3	Vertical	277	1.82	-
AV	2.4332G	101.93	Inf	-Inf	32.26	3	Vertical	277	1.82	-
PK	2.4992G	59.73	74.00	-14.27	32.46	3	Vertical	277	1.82	-
AV	2.4835G	48.83	54.00	-5.17	32.42	3	Vertical	277	1.82	-

802.11n HT40_Nss1,(MCS0)_2TX

04/10/2018

2437MHz_TX



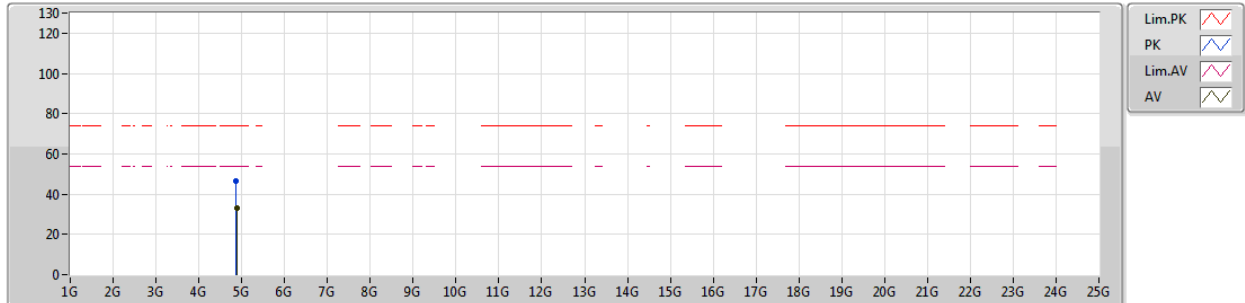
EUT Y_2TX
Setting 1E
03-R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.3898G	63.44	74.00	-10.56	32.13	3	Vertical	280	1.85	-
AV	2.3898G	51.07	54.00	-2.93	32.13	3	Vertical	280	1.85	-
PK	2.4346G	111.32	Inf	-Inf	32.26	3	Vertical	280	1.85	-
AV	2.4386G	102.83	Inf	-Inf	32.27	3	Vertical	280	1.85	-
PK	2.4835G	66.71	74.00	-7.29	32.42	3	Vertical	280	1.85	-
AV	2.4835G	52.79	54.00	-1.21	32.42	3	Vertical	280	1.85	-

802.11n HT40_Nss1,(MCS0)_2TX

29/10/2018

2437MHz_TX



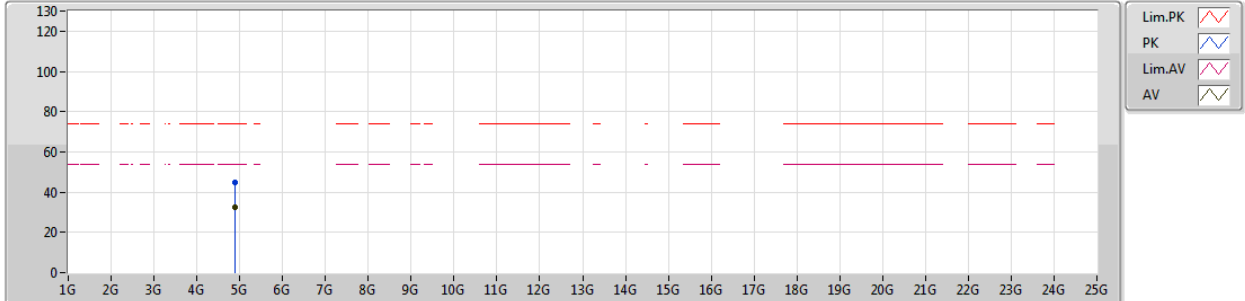
EUT Y_2TX
Setting 1E
04-E-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.8705G	46.26	74.00	-27.74	5.45	3	Vertical	130	1.50	-
AV	4.8857G	33.03	54.00	-20.97	5.45	3	Vertical	130	1.50	-

802.11n HT40_Nss1,(MCS0)_2TX

29/10/2018

2437MHz_TX



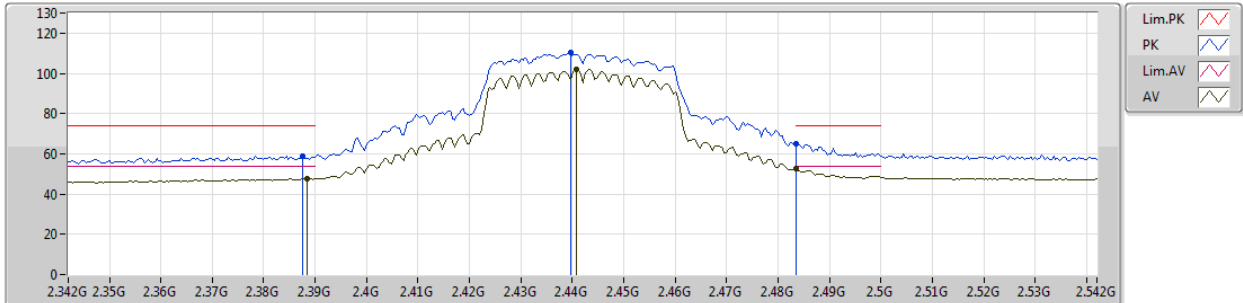
EUT Y_2TX
Setting 1E
04-E-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments						
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)							
PK	4.8864G	44.80	74.00	-29.20	5.45	3	Horizontal	184	2.06	-						
AV	4.8907G	32.74	54.00	-21.26	5.45	3	Horizontal	184	2.06	-						

802.11n HT40_Nss1,(MCS0)_2TX

04/10/2018

2442MHz_TX



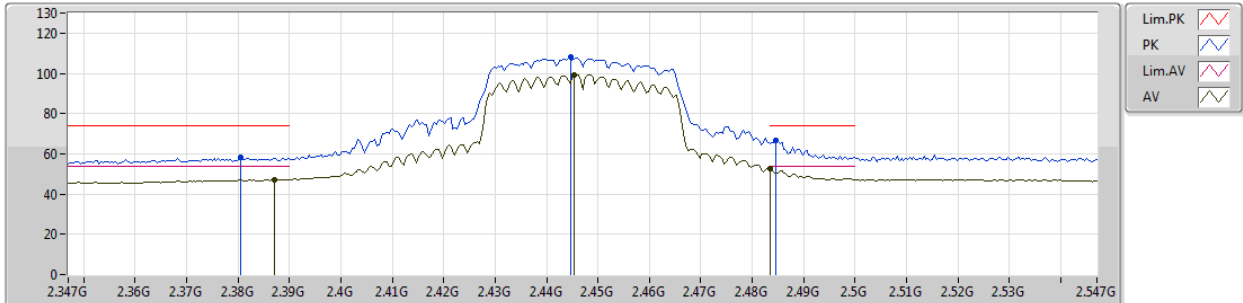
EUT Y_2TX
Setting 1B
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3876G	58.84	74.00	-15.16	32.13	3	Vertical	274	1.90	-
AV	2.3884G	47.76	54.00	-6.24	32.13	3	Vertical	274	1.90	-
PK	2.4396G	110.54	Inf	-Inf	32.28	3	Vertical	274	1.90	-
AV	2.4408G	101.89	Inf	-Inf	32.29	3	Vertical	274	1.90	-
PK	2.4835G	65.09	74.00	-8.91	32.42	3	Vertical	274	1.90	-
AV	2.4835G	52.57	54.00	-1.43	32.42	3	Vertical	274	1.90	-

802.11n HT40_Nss1,(MCS0)_2TX

04/10/2018

2447MHz_TX



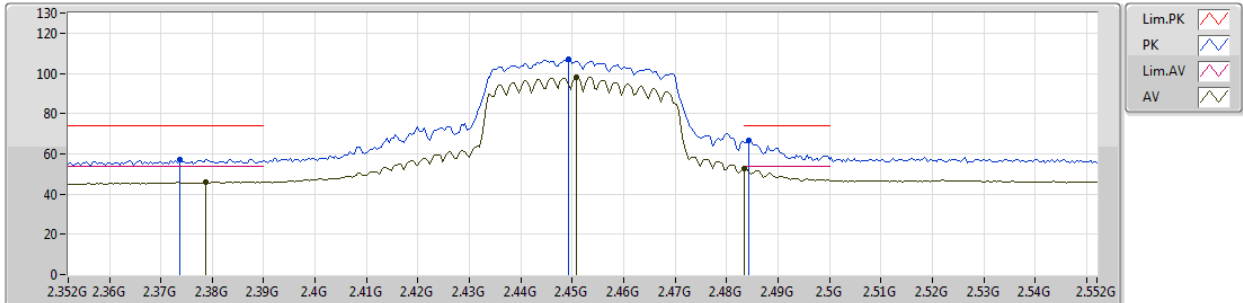
EUT Y_2TX
Setting 18
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3806G	58.21	74.00	-15.79	32.10	3	Vertical	261	1.86	-
AV	2.387G	47.34	54.00	-6.66	32.12	3	Vertical	261	1.86	-
PK	2.4446G	108.34	Inf	-Inf	32.29	3	Vertical	261	1.86	-
AV	2.4454G	99.38	Inf	-Inf	32.30	3	Vertical	261	1.86	-
PK	2.4846G	66.75	74.00	-7.25	32.42	3	Vertical	261	1.86	-
AV	2.4835G	52.69	54.00	-1.31	32.42	3	Vertical	261	1.86	-

802.11n HT40_Nss1,(MCS0)_2TX

04/10/2018

2452MHz_TX



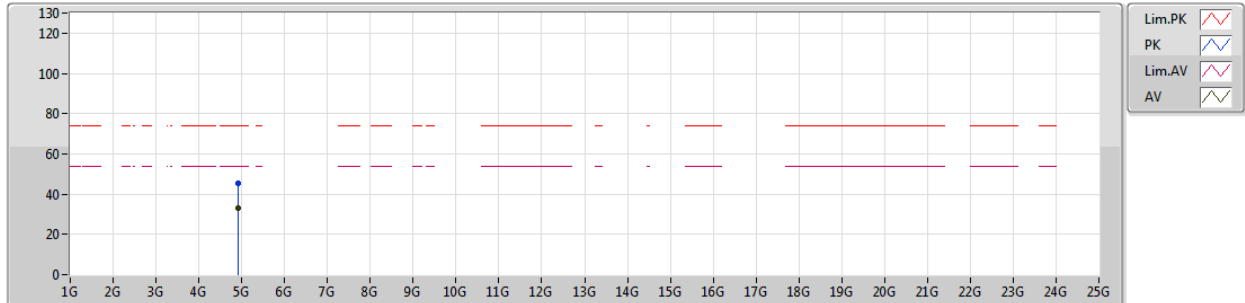
EUT Y_2TX
Setting 16
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3736G	57.40	74.00	-16.60	32.08	3	Vertical	166	1.83	-
AV	2.3788G	46.20	54.00	-7.80	32.10	3	Vertical	166	1.83	-
PK	2.4492G	107.17	Inf	-Inf	32.30	3	Vertical	166	1.83	-
AV	2.4508G	98.29	Inf	-Inf	32.32	3	Vertical	166	1.83	-
PK	2.4844G	66.61	74.00	-7.39	32.42	3	Vertical	166	1.83	-
AV	2.4835G	52.91	54.00	-1.09	32.42	3	Vertical	166	1.83	-

802.11n HT40_Nss1,(MCS0)_2TX

29/10/2018

2452MHz_TX



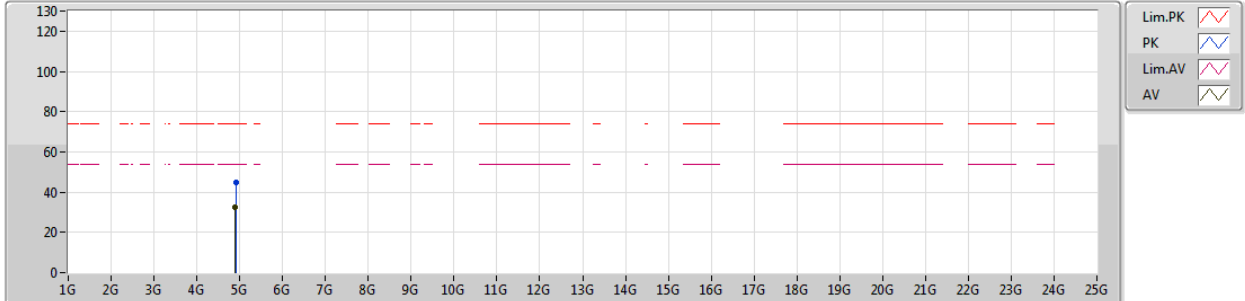
EUT Y_2TX
Setting 16
04-E-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.9037G	45.60	74.00	-28.40	5.45	3	Vertical	302	2.47	-
AV	4.9038G	33.13	54.00	-20.87	5.45	3	Vertical	302	2.47	-

802.11n HT40_Nss1,(MCS0)_2TX

29/10/2018

2452MHz_TX



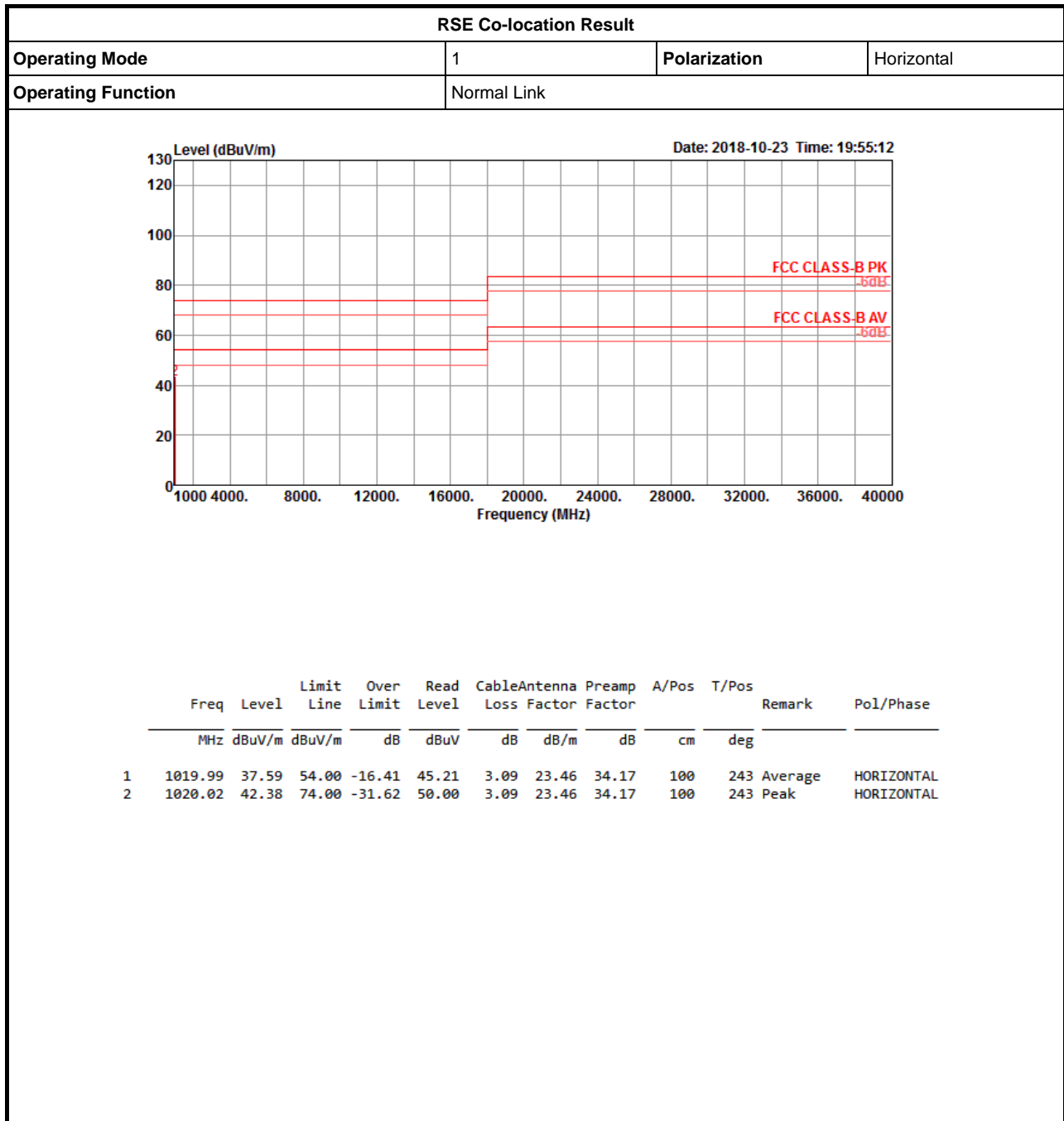
EUT Y_2TX
Setting 16
04-E-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.9232G	44.81	74.00	-29.19	5.52	3	Horizontal	97	1.33	-
AV	4.8906G	32.45	54.00	-21.55	5.45	3	Horizontal	97	1.33	-



RSE Co-location Result

Appendix G





RSE Co-location Result

Appendix G

