

FCC Test Report

Equipment : Wireless Gateway
Brand Name : ufiSpace
Model No. : GML820U-915U
FCC ID : MCLGML820U-915U
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz – 2483.5 MHz
Function : ☒ Point-to-multipoint; ☐ Point-to-point
Applicant : Hon Hai Precision Ind. Co., Ltd.
5F-1, 5, Hsin-An Road Hsinchu Science-Based
Industrial Park Hsinchu, Taiwan
Manufacturer : Hon Hai Precision Ind. Co., Ltd.
5F-1, 5, Hsin-An Road Hsinchu Science-Based
Industrial Park Hsinchu, Taiwan

The product sample received on Dec. 09, 2016 and completely tested on Mar. 28, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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


Cliff Chang
SPORTON INTERNATIONAL INC.





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Summary of Test Result

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

Revision History

[illegible]

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	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX
2.4-2.4835GHz	802.11n HT40	40	1TX
2.4-2.4835GHz	802.11n HT20	20	2TX

Note:

- ♦ 2.4G is the 2.4GHz Band (2.4-2.4835GHz).
- ♦ 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.
- ♦ Contain WWAN Module: WWAN Module (FCC ID: QISME906S-158)

1.1.2 Antenna Information

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	FIT	ANTP2M2-CZZ07-EH	PIFA Antenna	I-PEX	2.75
2	FIT	ANTP2M2-CZZ08-EH	PIFA Antenna	I-PEX	1.83

Note: For IEEE 802.11b/g, 802.11n 20MHz MCS0~MCS7 and 802.11n 40MHz MCS0 ~ MCS7 mode <1TX/1RX>:

Only Ant. 1(Port1) can be used as transmitting antenna and receiving antenna.

For IEEE mode 802.11n 20MHz MCS8~MCS15 <2TX/2RX>:

Ant. 1 (Port 1) and Ant. 2 (Port 2) can be used as transmitting/receiving antennas.

Ant. 1 (Port 1) and Ant. 2 (Port 2) could transmit and receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)
802.11b	0.954	0.205
802.11g	0.918	0.372
802.11n HT20	0.886	0.526
802.11n HT40	0.769	1.141

1.1.4 EUT Operational Condition

EUT Power Type	From PoE		
Beamforming Function	☐ With beamforming	☒ Without beamforming	

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 558074 D01 v04
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

Testing Location				
☐	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.	TEL : 886-3-327-3456	FAX : 886-3-318-0055
☒	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	Gino Huang	20°C / 54%	Mar. 28, 2017
Radiated	03CH01-CB	Joy Tseng	22°C / 54%	Mar. 23, 2017 Mar. 28, 2017
AC Conduction	CO01-CB	Da Deng	22°C / 53%	Mar. 27, 2017

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74 x10 ⁻⁸	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_(1Mbps)_1TX	-
2412MHz	20000
2437MHz	20000
2462MHz	20000
802.11g_(6Mbps)_1TX	-
2412MHz	20000
2437MHz	20000
2462MHz	20000
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	20000
2437MHz	20000
2462MHz	20000
802.11n HT40_Nss1,(MCS0)_1TX	-
2422MHz	12000
2437MHz	20000
2452MHz	20000
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	16500
2437MHz	20000
2462MHz	17000

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 Normal Link (Function:LoRa+Wi-fi+GPS+LTE Band 2)

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
1	EUT in Y axis Normal Link (Function: LoRa+WLAN 2.4GHz+GPS+LTE Band 2)
2	EUT in Z axis Normal Link (Function: LoRa+WLAN 2.4GHz+GPS+LTE Band 2)
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at Y axis and Z axis position for Radiated emission test below 1GHz, and the worst case was found at Y axis. So the maesurement above 1GHz will follow this same test configuration.	
1	EUT in Y axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	LoRa+WLAN 2.4GHz+GPS+LTE
Refer to Sporton Test Report No.: FA6D0726-01AA for Co-location RF Exposure Evaluation.	

Note: The PoE is for measurement only, would not be marketed.

Power	Brand Holder	Model
PoE	GOSPELL DIGITAL TECHNOLOGY CO.,LTD	G0720-480-050

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
Ground cable*1: Non-shielded 1m Antenna cable*3: Shielded 0.7m Wall-mounted rack*1

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook *2	DELL	E6430	DoC
2	LTE Base station	Anritsu	MT8820C	DoC
3	GPS Simulator	WELNAVIGATE	GS-100	DoC
4	LoRa	Foxconn	IoT ISM Band Car Trackers	PY3AC785S
5	AP Router	Planex	GW-AP54SGX	KA220030603014-1
6	SIM Card	NA	NA	DoC
7	PoE	GOSPELL DIGITAL TECHNOLOGY CO.,LTD	G0720-480-050	DoC

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

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook*2	DELL	E4300	DoC
2	LTE base station	Anritsu	MT8820C	N/A
3	GPS Simulator	WELNAVIGATE	GS-100	N/A
4	WLAN AP	NETGEAR	WNDR3300v2	PY309300116
5	SIM Card	N/A	N/A	DoC
6	POE	GOSPELL DIGITAL TECHNOLOGY CO.,LTD	G0720-480-050	DoC
7	LoRa	Foxconn	IoT ISM Band Car Trackers	DoC

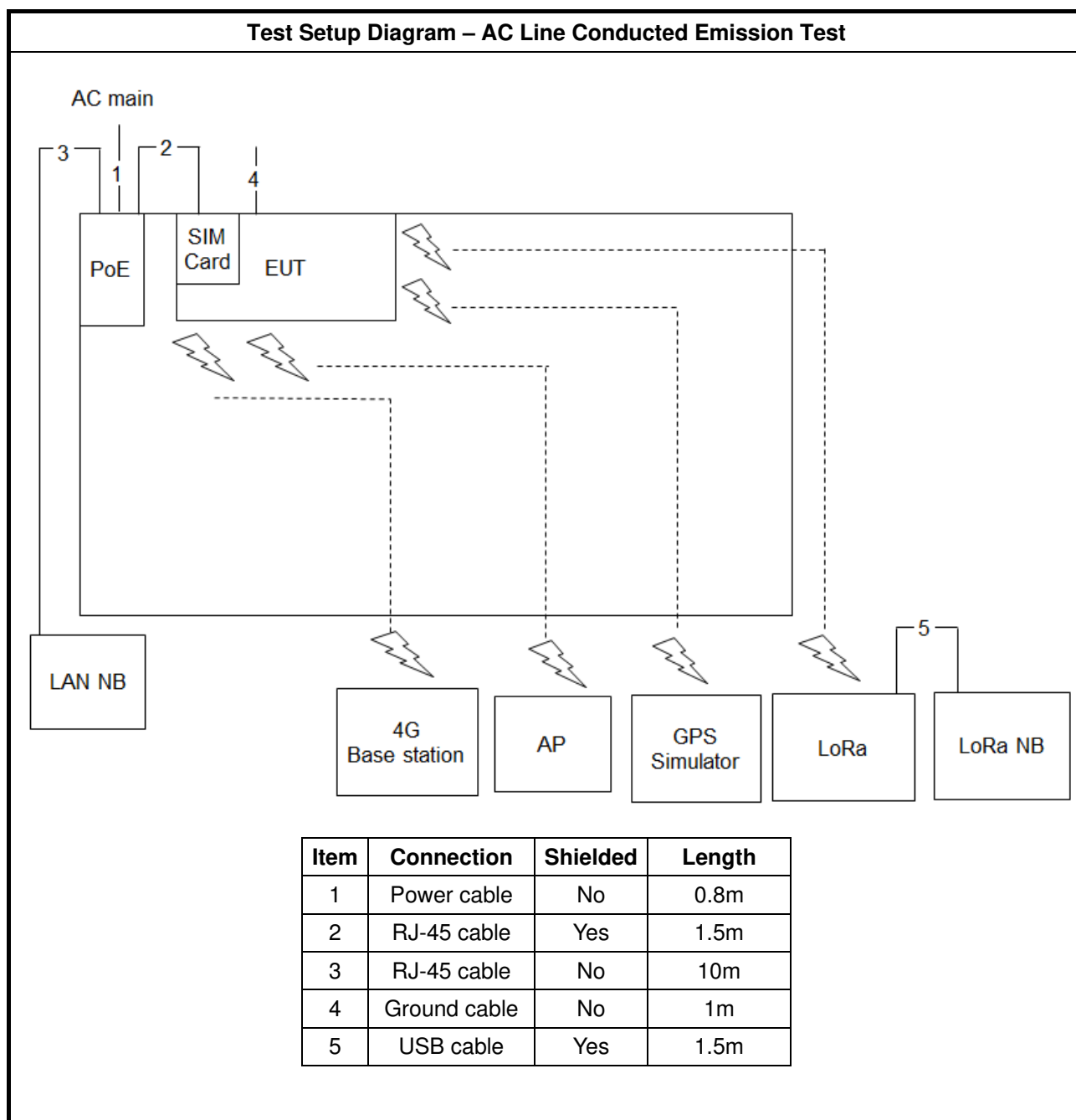
For Test Site No: 03CH01-CB (above 1GHz)

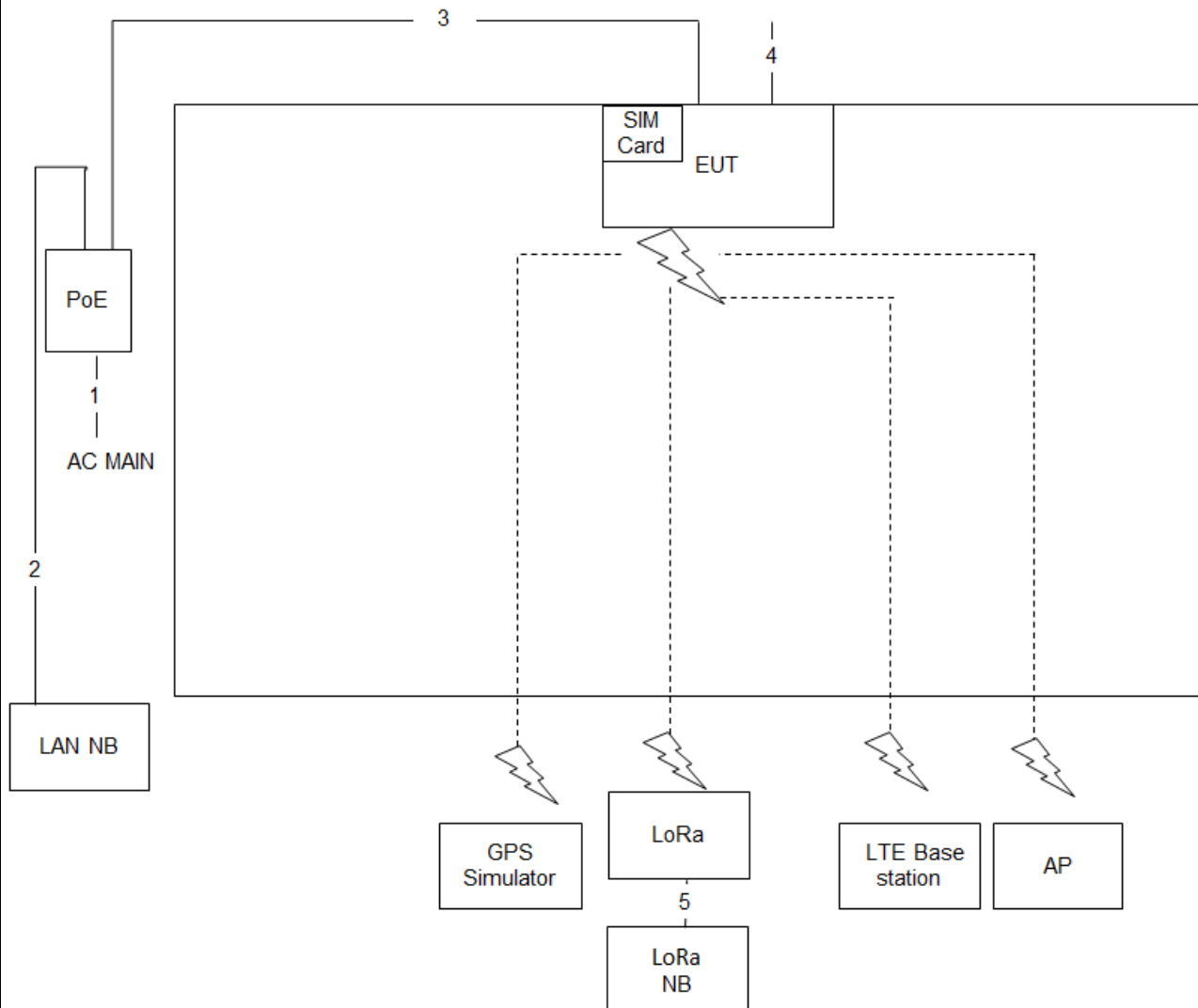
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E4300	DoC
2	POE	GOSPELL DIGITAL TECHNOLOGY CO.,LTD	G0720-480-050	DoC

For Test Site No: TH01-CB

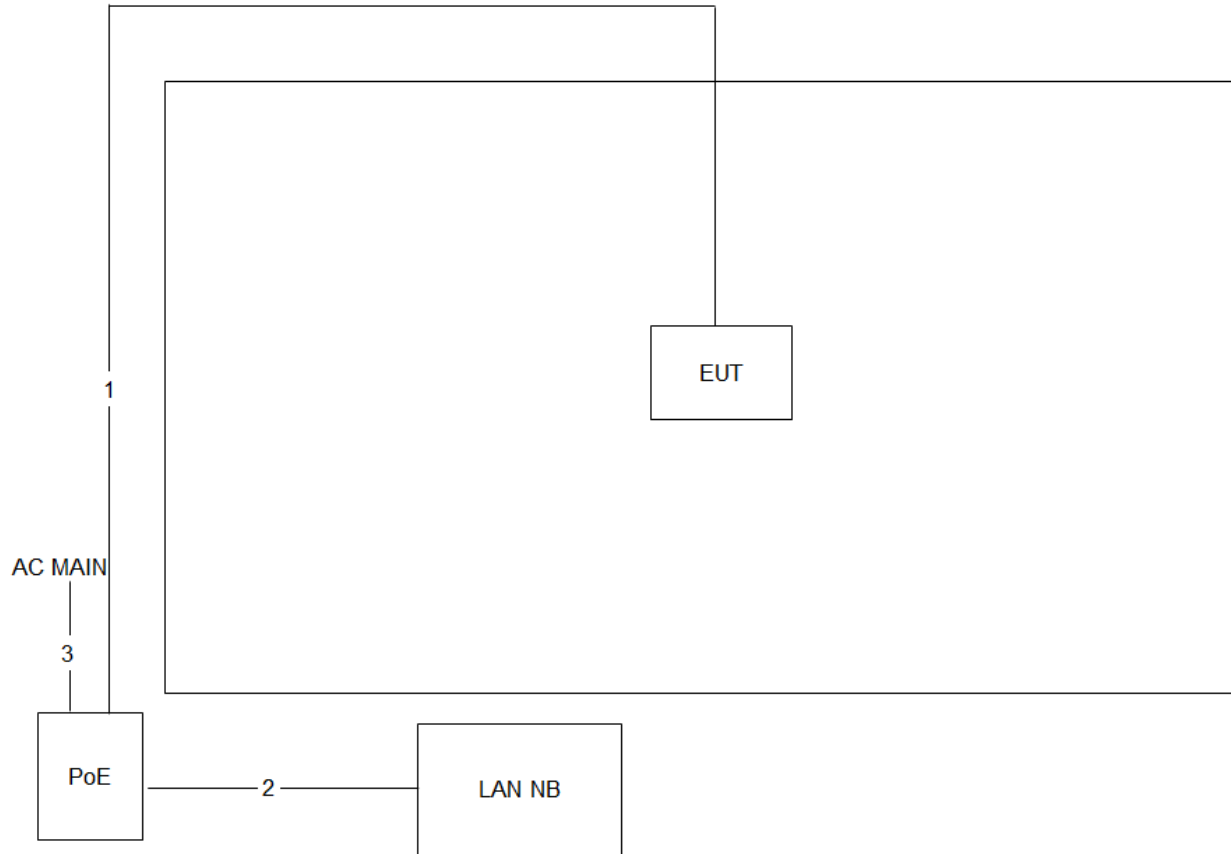
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E4300	DoC
2	POE	GOSPELL DIGITAL TECHNOLOGY CO.,LTD	G0720-480-050	DoC

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	0.5m
3	RJ-45 cable	No	10m
4	Ground cable	No	1m
5	RJ-45 cable	No	0.5m

Test Setup Diagram - Radiated Test > 1GHz


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

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.

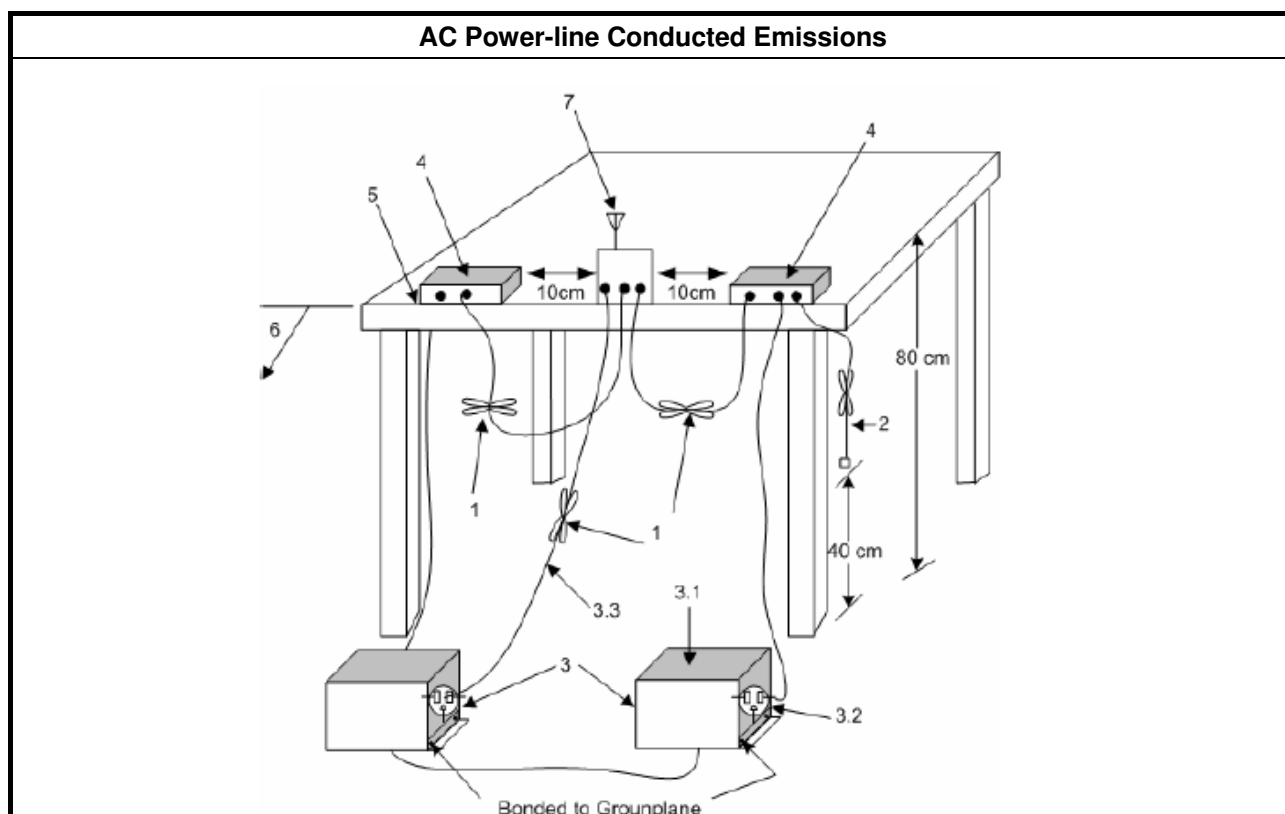
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
☒ 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.

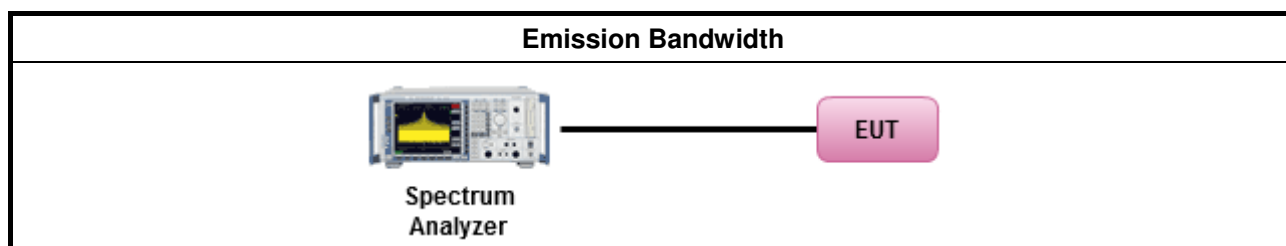
3.2.2 Measuring Instruments

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:
☒	Refer as FCC KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.
☐	Refer as FCC KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.
☐	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.	

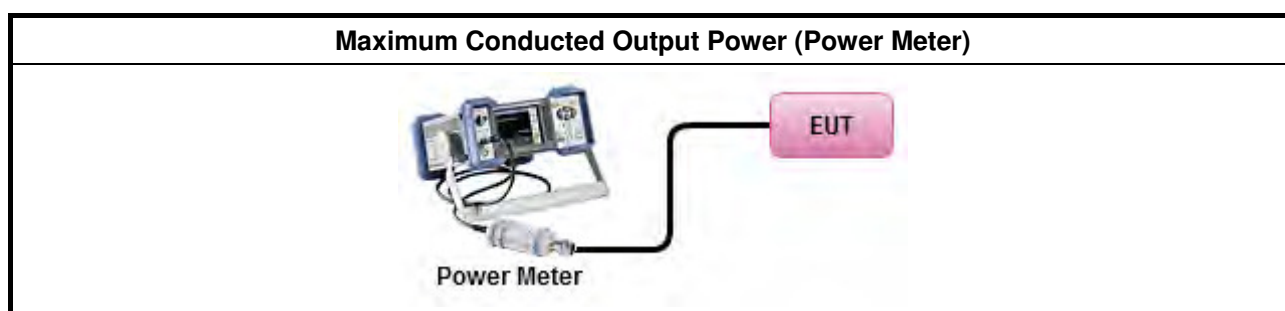
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 9.1.2 Option 2 (peak power meter for VBW ≥ DTS BW)
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).
☐	Refer as FCC KDB 558074, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
☐	Refer as FCC KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
RF power meter and average over on/off periods with duty factor or gated trigger	
☒	Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM-G (using an RF average power meter).
☐	Refer as FCC KDB 558074, clause 9.1.2 PKPM1 Peak power meter method.
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: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$	

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

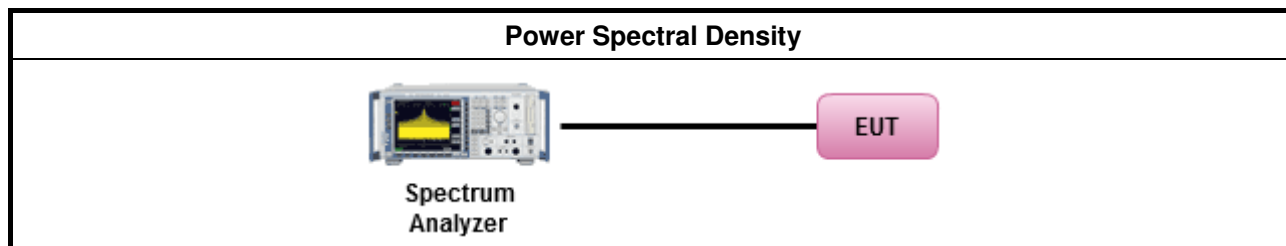
3.4.2 Measuring Instruments

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).
☒ Refer as FCC KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak). [duty cycle $\geq 98\%$ or external video / power trigger]
☐ Refer as FCC KDB 558074, clause 10.3 Method AVGPS-1 (spectral trace averaging).
☐ Refer as FCC KDB 558074, clause 10.4 Method AVGPS-2 (slow sweep speed)
duty cycle $< 98\%$ and average over on/off periods with duty factor
☐ Refer as FCC KDB 558074, clause 10.5 Method AVGPS-1 Alt (spectral trace averaging).
☐ Refer as FCC KDB 558074, clause 10.6 Method AVGPS-2 Alt. (slow sweep speed)
For conducted measurement.
If The EUT supports multiple transmit chains using options given below:
☒ 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.
☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

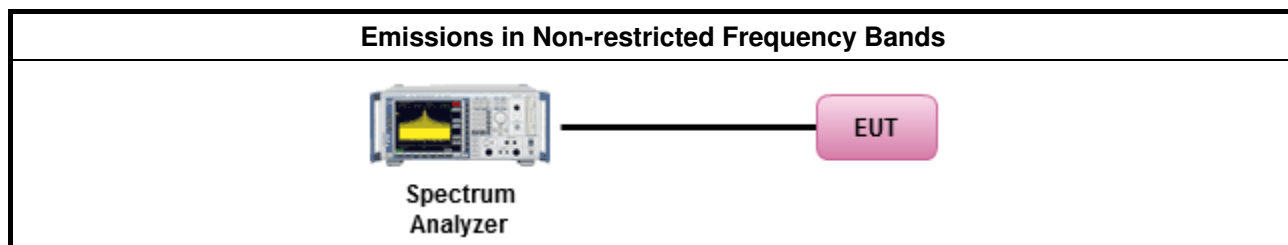
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

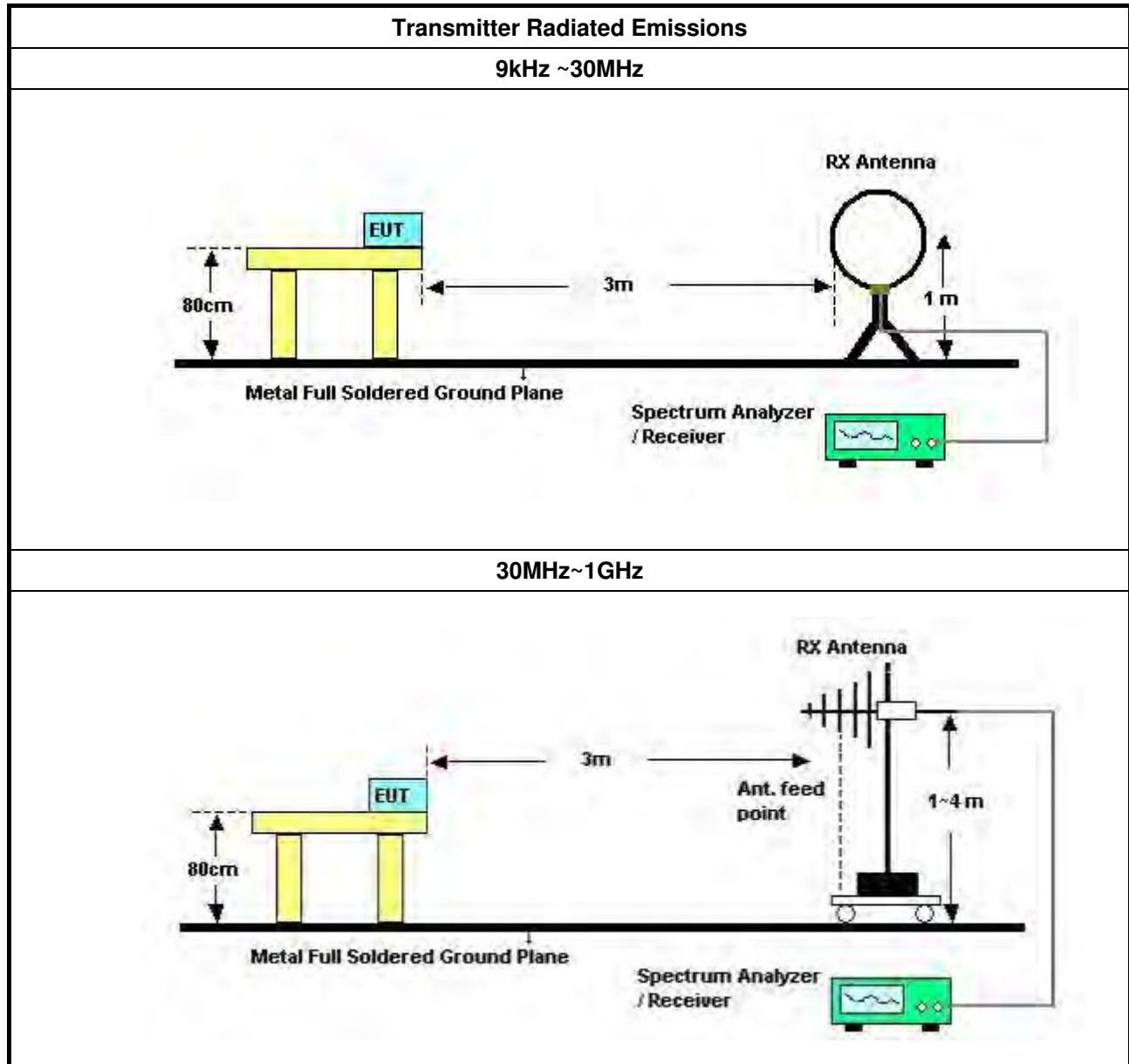
3.6.2 Measuring Instruments

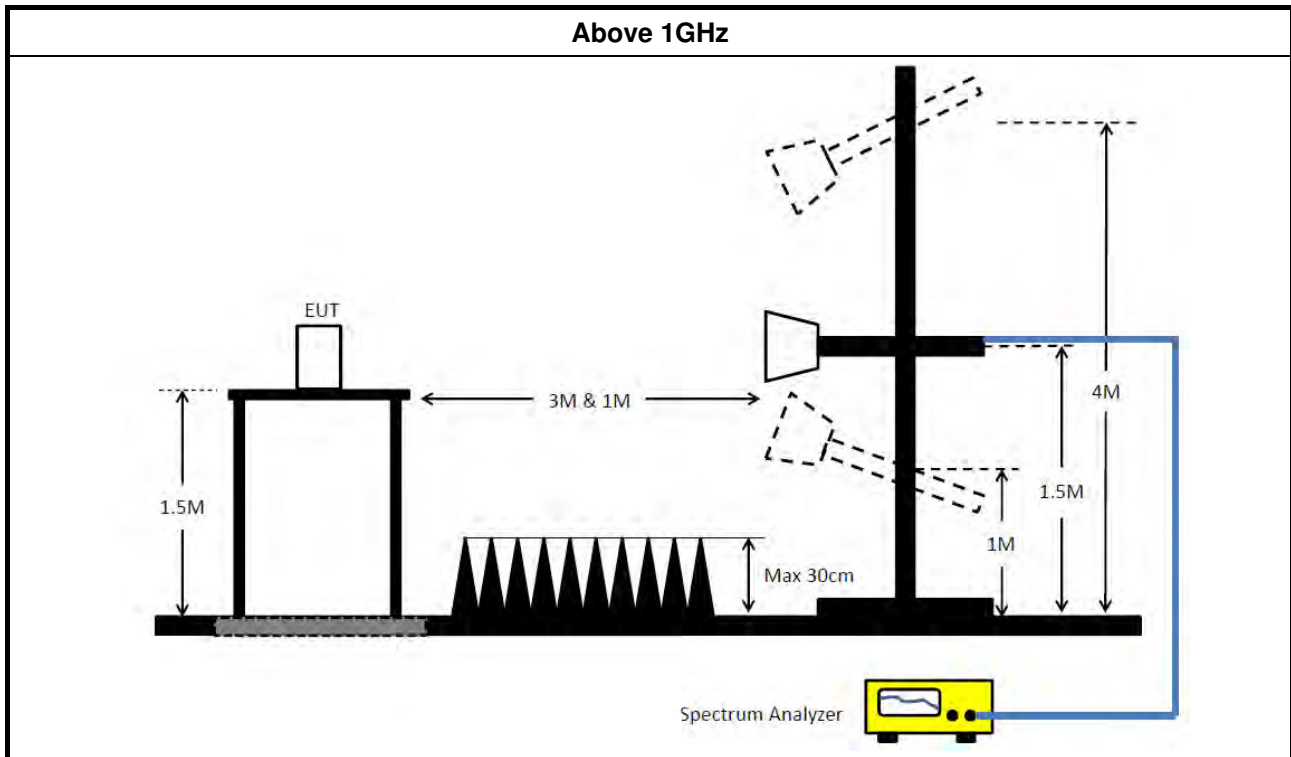
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
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.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$)
	☐ Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 12.2.4 measurement procedure peak limit.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as FCC KDB 558074 clause 13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as FCC KDB 558074, clause 13.2 (ANSI C63.10, clause 6.9.3) for marker-delta method for band-edge measurements.
	Refer as FCC KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
For conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 12.2.2.	
	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
	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.

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	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 23, 2017	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 14, 2016	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 21, 2016	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 24, 2016	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2016	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 25, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Mar. 13, 2017	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jun. 28, 2016	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 21, 2016	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 16, 2016	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-10-7	N/A	N/A	Radiation (03CH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	Conducted (TH01-CB)

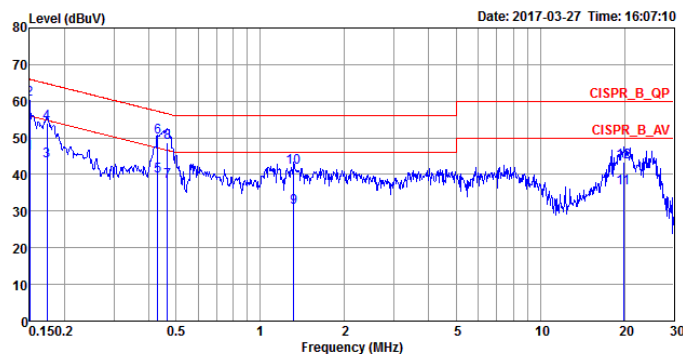
Note: Calibration Interval of instruments listed above is one year.

“**” Calibration Interval of instruments listed above is two years.

N.C.R means Non-Calibration required.

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Normal Link		



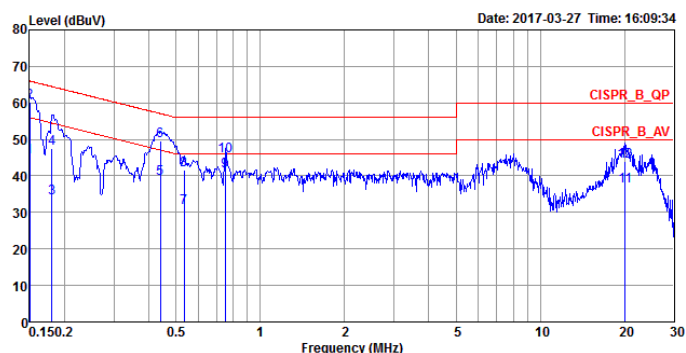
	Freq	Level	Over	Limit	Read	LISN		
	MHz	dBuV	Limit	Line	Level	Factor	Remark	Pol/Phase
			dB	dBuV	dBuV	dB		
1	0.1500	45.72	-10.28	56.00	35.74	9.94	Average	NEUTRAL
2	0.1500	60.50	-5.50	66.00	50.52	9.94	QP	NEUTRAL
3	0.1731	43.71	-11.10	54.81	33.71	9.96	Average	NEUTRAL
4	0.1731	53.89	-10.92	64.81	43.89	9.96	QP	NEUTRAL
5	0.4305	39.68	-7.56	47.24	29.68	9.96	Average	NEUTRAL
6	0.4305	50.04	-7.20	57.24	40.04	9.96	QP	NEUTRAL
7	0.4661	38.00	-8.58	46.58	27.99	9.97	Average	NEUTRAL
8	0.4661	48.61	-7.97	56.58	38.60	9.97	QP	NEUTRAL
9	1.3168	30.99	-15.01	46.00	20.94	9.98	Average	NEUTRAL
10	1.3168	41.94	-14.06	56.00	31.89	9.98	QP	NEUTRAL
11	19.8445	36.25	-13.75	50.00	25.71	10.29	Average	NEUTRAL
12	19.8445	43.48	-16.52	60.00	32.94	10.29	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.)

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Normal Link		



	Freq	Level	Over	Limit	Read	LISN		
	MHz	dBuV	Limit	Line	Level	Factor	Remark	Pol/Phase
			dB	dBuV	dBuV	dB		
1	0.1500	45.12	-10.88	56.00	35.13	9.95	Average	LINE
2	0.1500	60.35	-5.65	66.00	50.36	9.95	QP	LINE
3	0.1806	33.95	-20.51	54.46	23.96	9.94	Average	LINE
4	0.1806	47.49	-16.97	64.46	37.50	9.94	QP	LINE
5	0.4397	39.14	-7.93	47.07	29.20	9.90	Average	LINE
6	0.4397	49.74	-7.33	57.07	39.80	9.90	QP	LINE
7	0.5350	31.28	-14.72	46.00	21.32	9.92	Average	LINE
8	0.5350	41.56	-14.44	56.00	31.60	9.92	QP	LINE
9	0.7507	41.41	-4.59	46.00	31.42	9.94	Average	LINE
10	0.7507	45.44	-10.56	56.00	35.45	9.94	QP	LINE
11	20.0559	37.07	-12.93	50.00	26.60	10.22	Average	LINE
12	20.0559	44.05	-15.95	60.00	33.58	10.22	QP	LINE

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

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

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11b_(1Mbps)_1TX	-	-	-	-	-
2.4-2.4835GHz	9.975M	14.668M	14M7G1D	9.475M	14.568M
802.11g_(6Mbps)_1TX	-	-	-	-	-
2.4-2.4835GHz	15.075M	16.942M	16M9D1D	12.475M	16.267M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2.4-2.4835GHz	14.975M	17.491M	17M5D1D	14.475M	17.466M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2.4-2.4835GHz	32.5M	35.832M	35M8D1D	31.25M	35.682M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	9.925M	14.668M
2437MHz	Pass	500k	9.975M	14.643M
2462MHz	Pass	500k	9.475M	14.568M
802.11g_(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	13.5M	16.267M
2437MHz	Pass	500k	15.075M	16.942M
2462MHz	Pass	500k	12.475M	16.317M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	14.525M	17.466M
2437MHz	Pass	500k	14.975M	17.491M
2462MHz	Pass	500k	14.475M	17.466M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	31.25M	35.682M
2437MHz	Pass	500k	32.5M	35.832M
2452MHz	Pass	500k	31.3M	35.832M

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

802.11b_(1Mbps)_1TX
EBW
2412MHz

Ch Freq
2.412GHz

Span
50MHz

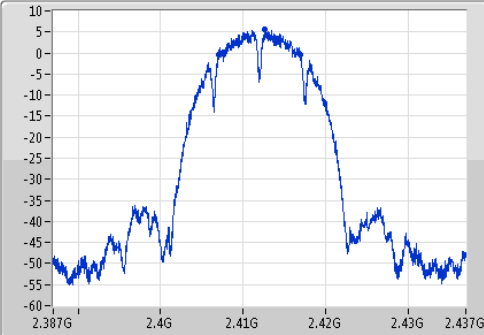
RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak

Port 1 



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
9.925M	2.407025G	2.41695G	14.668M	2.404679G	2.419346G	500k	1

Ch Freq
2.412GHz

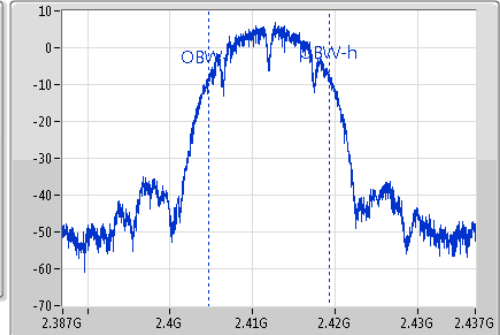
Span
50MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample


802.11b_(1Mbps)_1TX
EBW
2437MHz

Ch Freq
2.437GHz

Span
50MHz

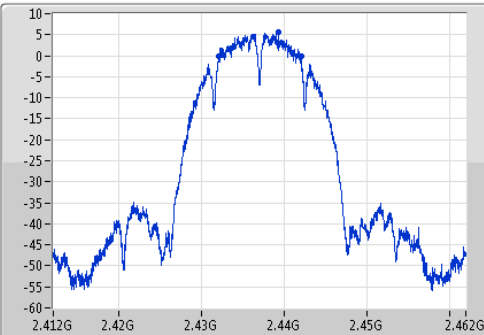
RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak

Port 1 



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
9.975M	2.432075G	2.44205G	14.643M	2.429654G	2.444296G	500k	1

Ch Freq
2.437GHz

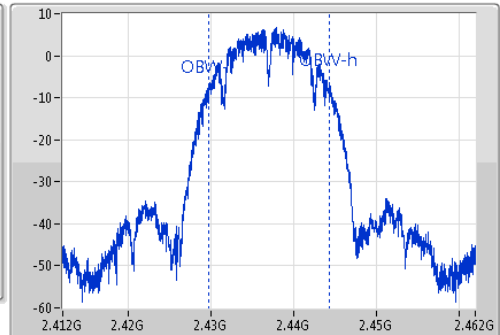
Span
50MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample


802.11b_(1Mbps)_1TX
EBW
2462MHz

Ch Freq
2.462GHz

Span
50MHz

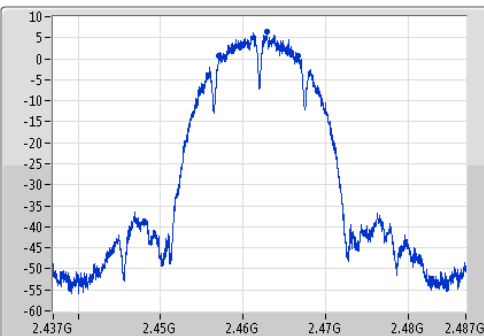
RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak

Port 1 



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
9.475M	2.457125G	2.4666G	14.568M	2.454729G	2.469296G	500k	1

Ch Freq
2.462GHz

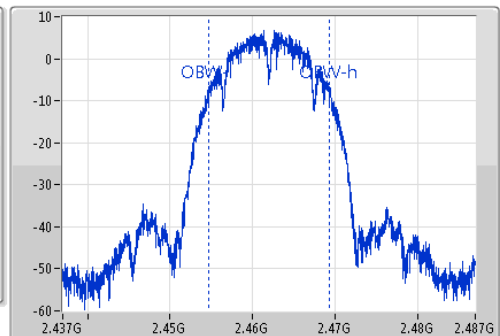
Span
50MHz

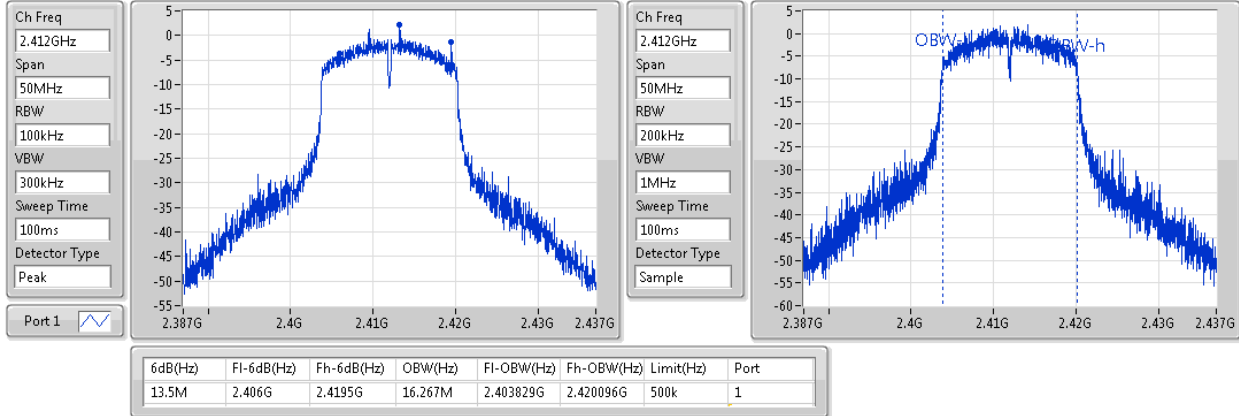
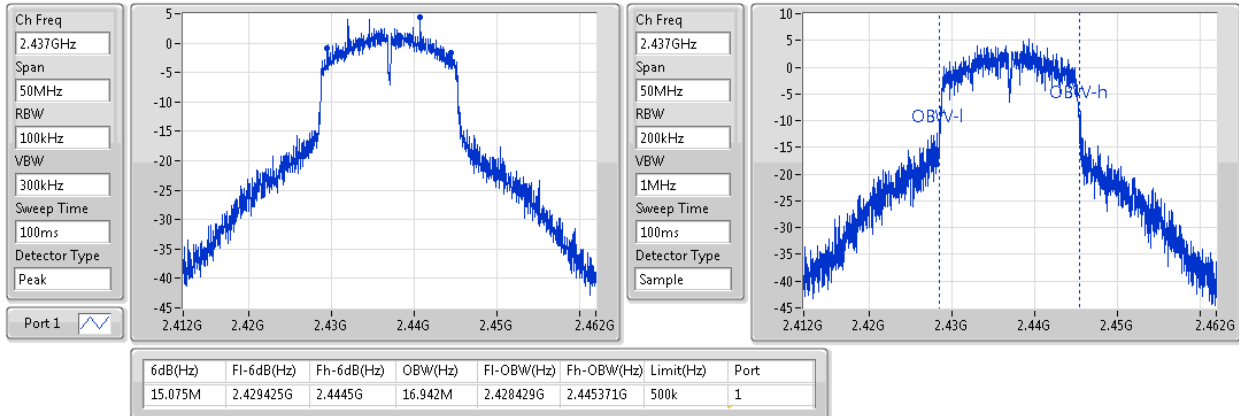
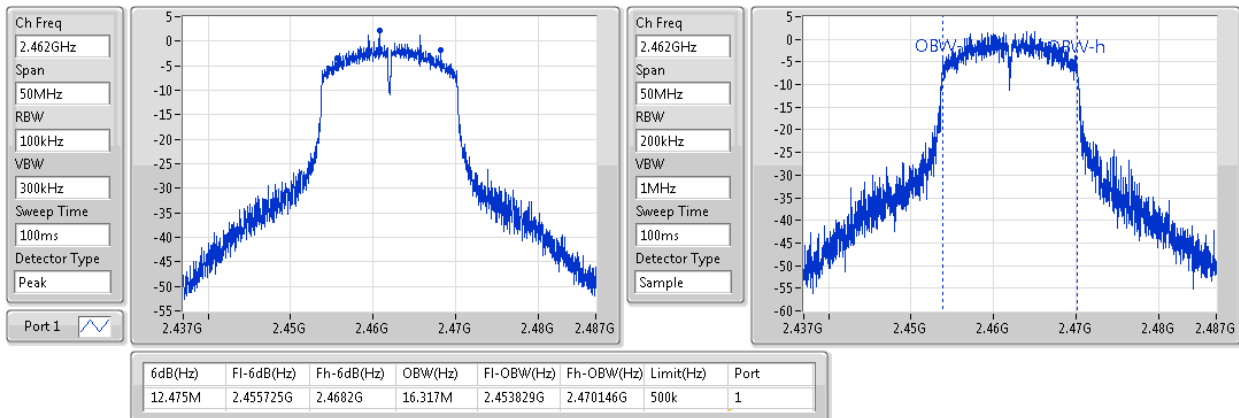
RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



802.11g_(6Mbps)_1TX
EBW
2412MHz

802.11g_(6Mbps)_1TX
EBW
2437MHz

802.11g_(6Mbps)_1TX
EBW
2462MHz


802.11n HT20_Nss1,(MCS0)_1TX
EBW
2412MHz

Ch Freq
2.412GHz

Span
50MHz

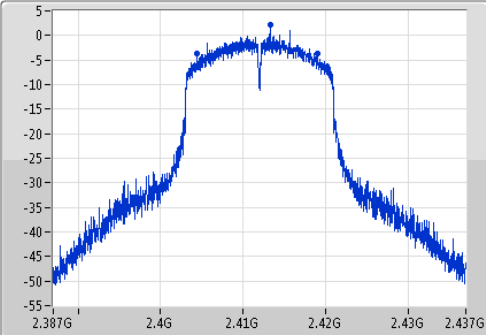
RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak

Port 1 



Ch Freq
2.412GHz

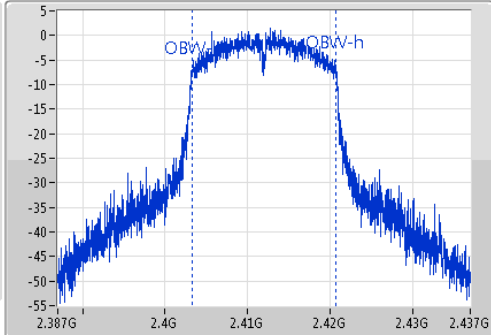
Span
50MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.525M	2.40445G	2.418975G	17.466M	2.403254G	2.420721G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX
EBW
2437MHz

Ch Freq
2.437GHz

Span
50MHz

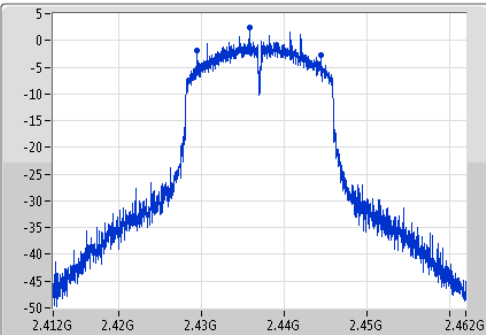
RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak

Port 1 



Ch Freq
2.437GHz

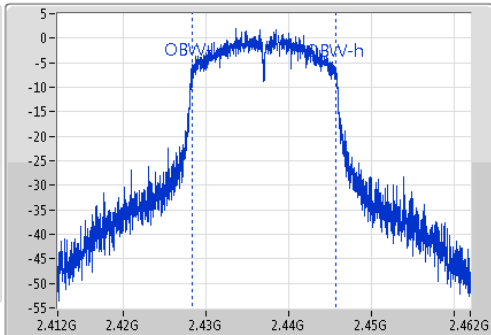
Span
50MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.975M	2.429475G	2.44445G	17.491M	2.428229G	2.445721G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX
EBW
2462MHz

Ch Freq
2.462GHz

Span
50MHz

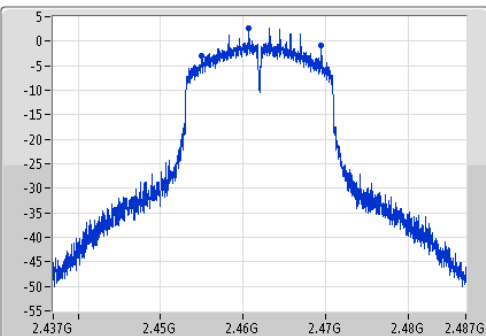
RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak

Port 1 



Ch Freq
2.462GHz

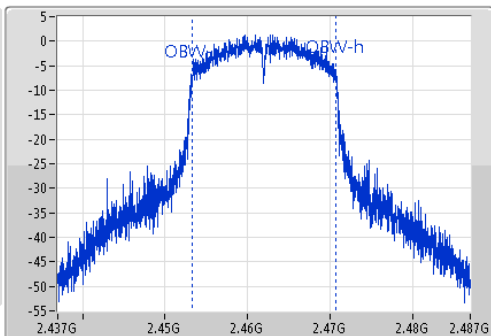
Span
50MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.475M	2.455025G	2.4695G	17.466M	2.453229G	2.470696G	500k	1

802.11n HT40_Nss1,(MCS0)_1TX
EBW
2422MHz

Ch Freq
2.422GHz

Span
100MHz

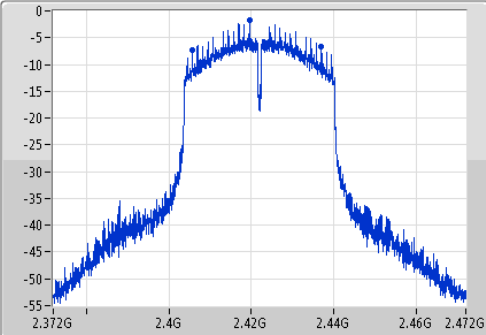
RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak

Port 1 



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
31.25M	2.40575G	2.437G	35.682M	2.404109G	2.439791G	500k	1

Ch Freq
2.422GHz

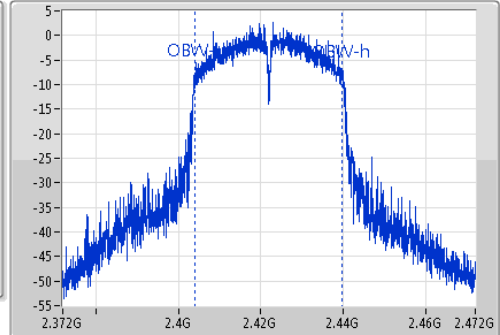
Span
100MHz

RBW
500kHz

VBW
2MHz

Sweep Time
100ms

Detector Type
Sample


802.11n HT40_Nss1,(MCS0)_1TX
EBW
2437MHz

Ch Freq
2.437GHz

Span
100MHz

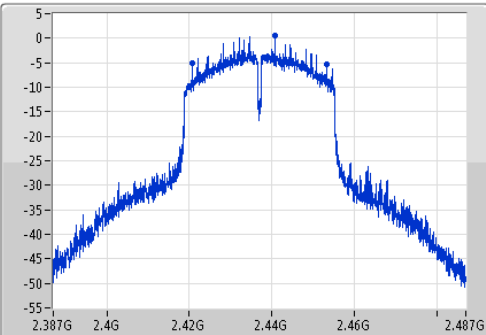
RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak

Port 1 



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
32.5M	2.42075G	2.45325G	35.832M	2.419059G	2.454891G	500k	1

Ch Freq
2.437GHz

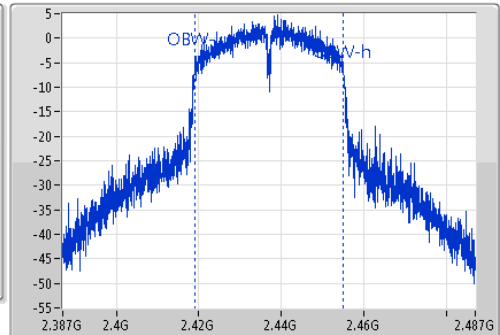
Span
100MHz

RBW
500kHz

VBW
2MHz

Sweep Time
100ms

Detector Type
Sample


802.11n HT40_Nss1,(MCS0)_1TX
EBW
2452MHz

Ch Freq
2.452GHz

Span
100MHz

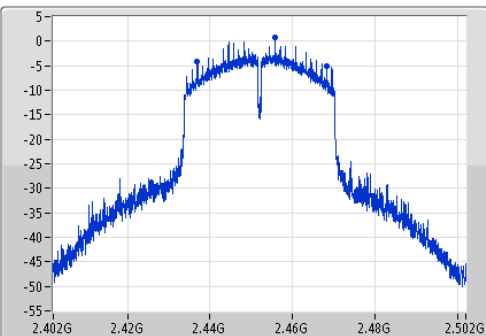
RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak

Port 1 



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
31.3M	2.43695G	2.46825G	35.832M	2.434059G	2.469891G	500k	1

Ch Freq
2.452GHz

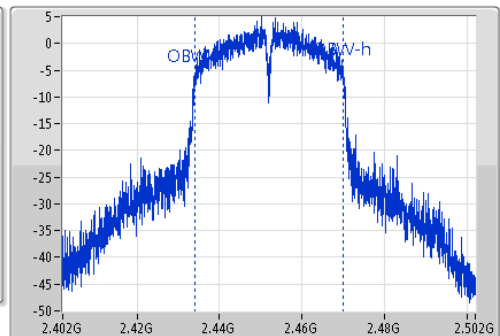
Span
100MHz

RBW
500kHz

VBW
2MHz

Sweep Time
100ms

Detector Type
Sample



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-
2.4-2.4835GHz	15.65M	17.566M	17M6D1D	14.975M	17.491M

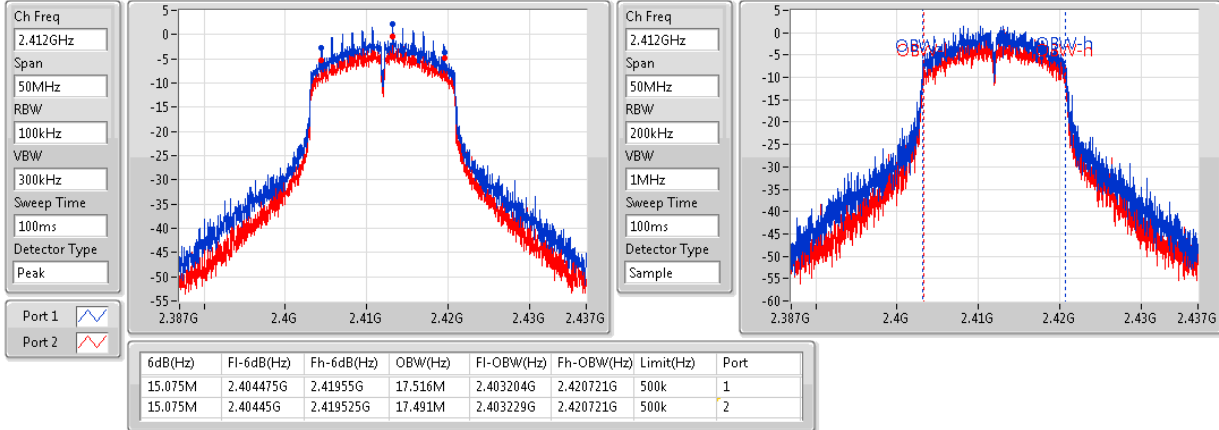
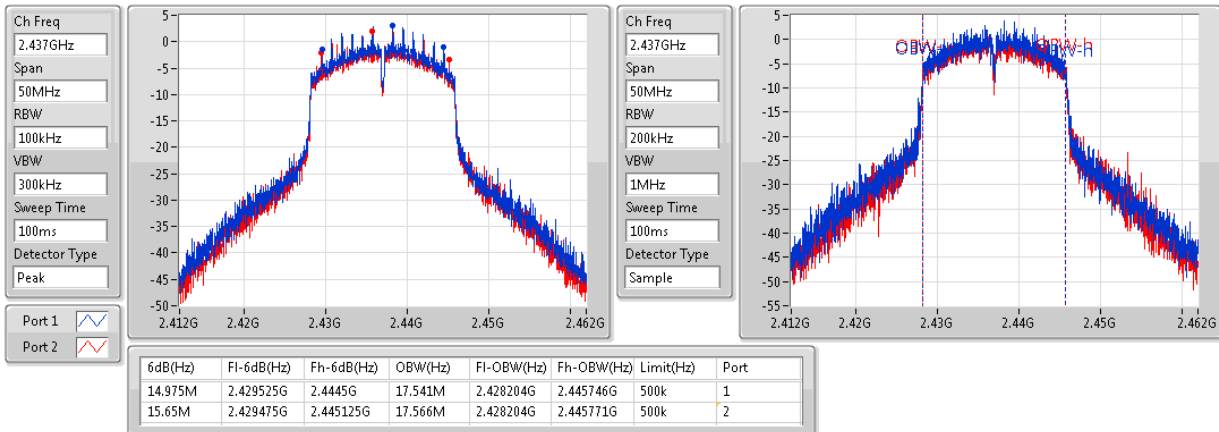
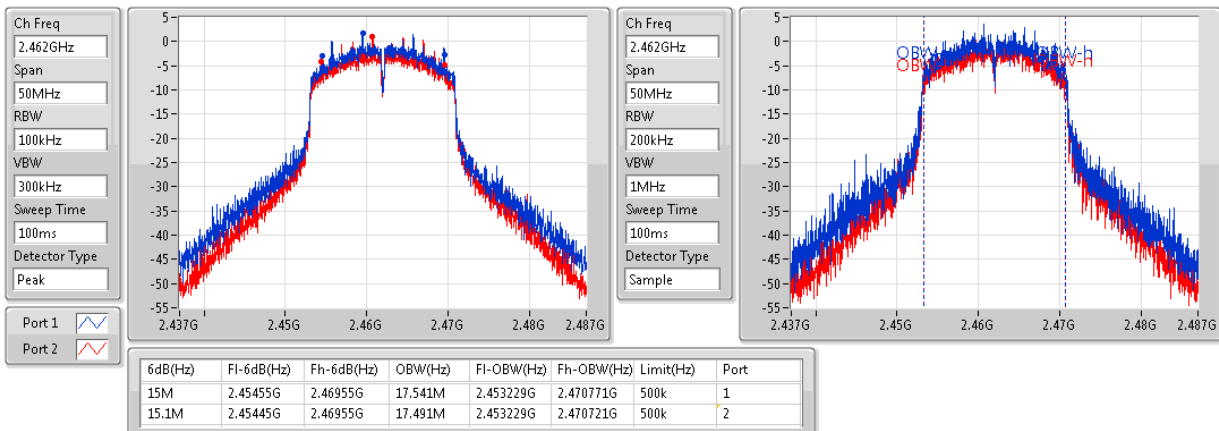
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.075M	17.516M	15.075M	17.491M
2437MHz	Pass	500k	14.975M	17.541M	15.65M	17.566M
2462MHz	Pass	500k	15M	17.541M	15.1M	17.491M

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

802.11n HT20_Nss1,(MCS0)_2TX
EBW
2412MHz

802.11n HT20_Nss1,(MCS0)_2TX
EBW
2437MHz

802.11n HT20_Nss1,(MCS0)_2TX
EBW
2462MHz


Summary

Mode	Total Power (dBm)	Total Power (W)
802.11b_(1Mbps)_1TX	-	-
2.4-2.4835GHz	15.84	0.03837
802.11g_(6Mbps)_1TX	-	-
2.4-2.4835GHz	12.78	0.01897
802.11n HT20_Nss1,(MCS0)_1TX	-	-
2.4-2.4835GHz	12.77	0.01892
802.11n HT40_Nss1,(MCS0)_1TX	-	-
2.4-2.4835GHz	13.33	0.02153

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.75	15.56	15.56	30.00
2437MHz	Pass	2.75	15.84	15.84	30.00
2462MHz	Pass	2.75	15.68	15.68	30.00
802.11g_(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.75	12.69	12.69	30.00
2437MHz	Pass	2.75	12.78	12.78	30.00
2462MHz	Pass	2.75	12.53	12.53	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.75	12.73	12.73	30.00
2437MHz	Pass	2.75	12.77	12.77	30.00
2462MHz	Pass	2.75	12.72	12.72	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	2.75	10.87	10.87	30.00
2437MHz	Pass	2.75	13.33	13.33	30.00
2452MHz	Pass	2.75	13.19	13.19	30.00

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

**Summary**

Mode	Total Power (dBm)	Total Power (W)
802.11n HT20_Nss1,(MCS0)_2TX	-	-
2.4-2.4835GHz	15.80	0.03802

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.75	12.07	10.69	14.44	30.00
2437MHz	Pass	2.75	13.18	12.35	15.80	30.00
2462MHz	Pass	2.75	12.71	11.40	15.11	30.00

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

Summary

Mode	PD (dBm/RBW)
802.11b_(1Mbps)_1TX	-
2.4-2.4835GHz	-6.83
802.11g_(6Mbps)_1TX	-
2.4-2.4835GHz	-12.03
802.11n HT20_Nss1,(MCS0)_1TX	-
2.4-2.4835GHz	-11.62
802.11n HT40_Nss1,(MCS0)_1TX	-
2.4-2.4835GHz	-14.02

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.75	-6.83	-6.83	8.00
2437MHz	Pass	2.75	-7.93	-7.93	8.00
2462MHz	Pass	2.75	-7.77	-7.77	8.00
802.11g_(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.75	-12.03	-12.03	8.00
2437MHz	Pass	2.75	-12.30	-12.30	8.00
2462MHz	Pass	2.75	-12.38	-12.38	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.75	-12.56	-12.56	8.00
2437MHz	Pass	2.75	-11.66	-11.66	8.00
2462MHz	Pass	2.75	-11.62	-11.62	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	2.75	-16.08	-16.08	8.00
2437MHz	Pass	2.75	-15.28	-15.28	8.00
2452MHz	Pass	2.75	-14.02	-14.02	8.00

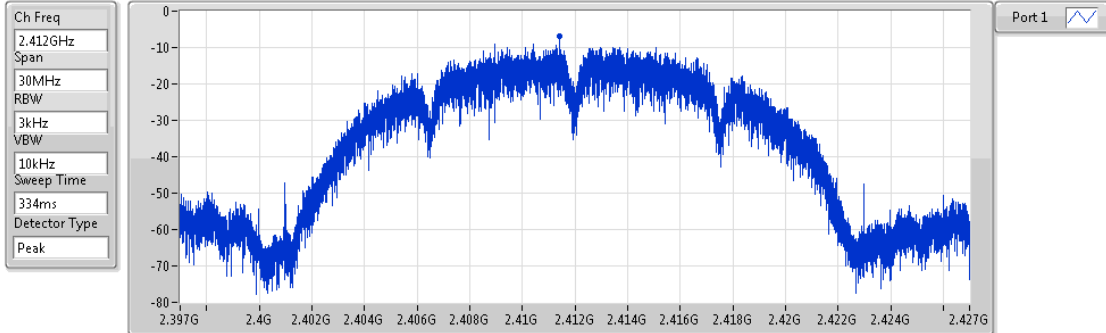
DG = Directional Gain; RBW=3kHz;

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

802.11b_(1Mbps)_1TX

PSD

2412MHz

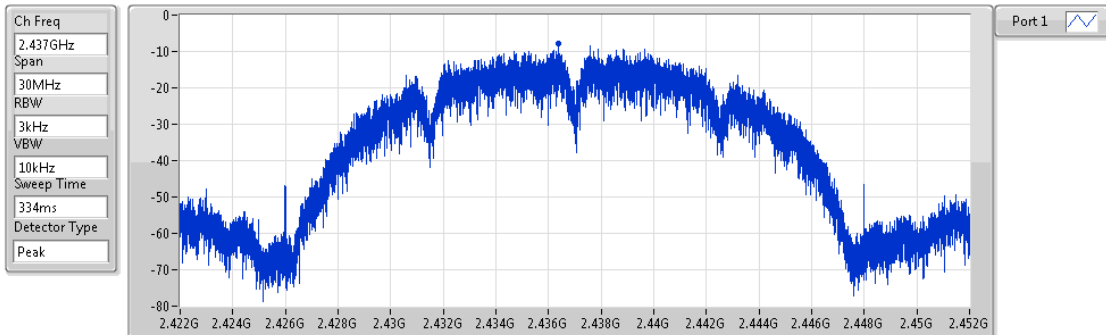


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.83	-6.83	-6.83

802.11b_(1Mbps)_1TX

PSD

2437MHz

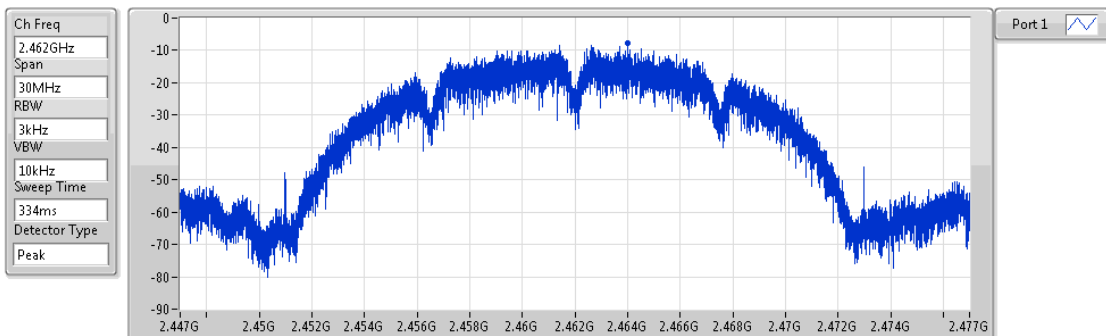


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.93	-7.93	-7.93

802.11b_(1Mbps)_1TX

PSD

2462MHz

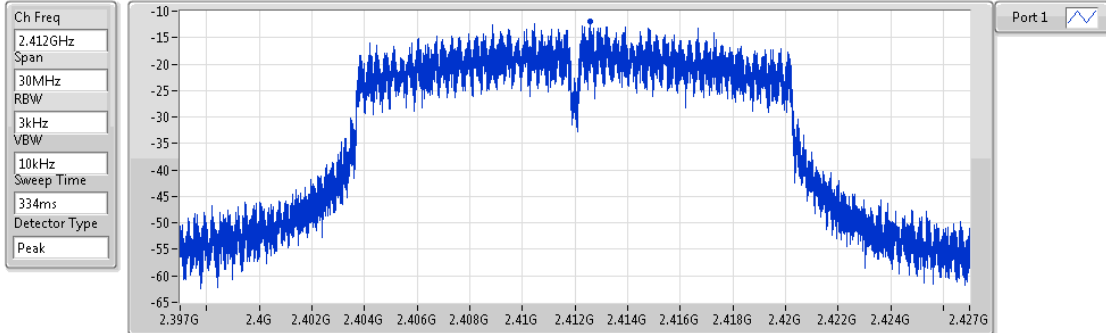


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.77	-7.77	-7.77

802.11g_(6Mbps)_1TX

PSD

2412MHz

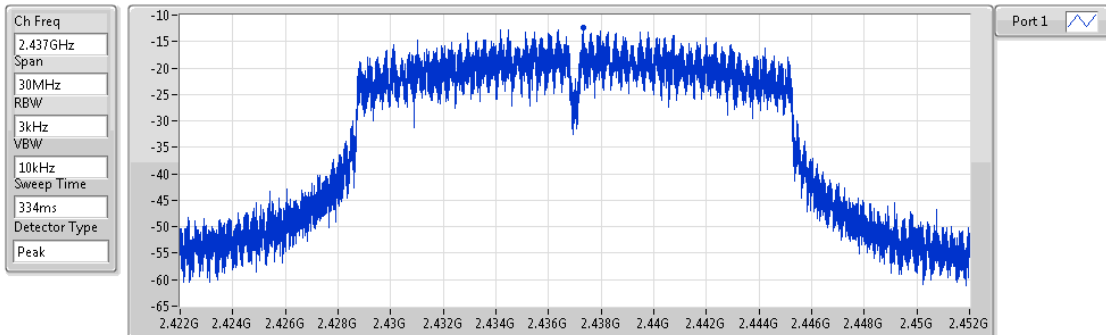


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.03	-12.03	-12.03

802.11g_(6Mbps)_1TX

PSD

2437MHz

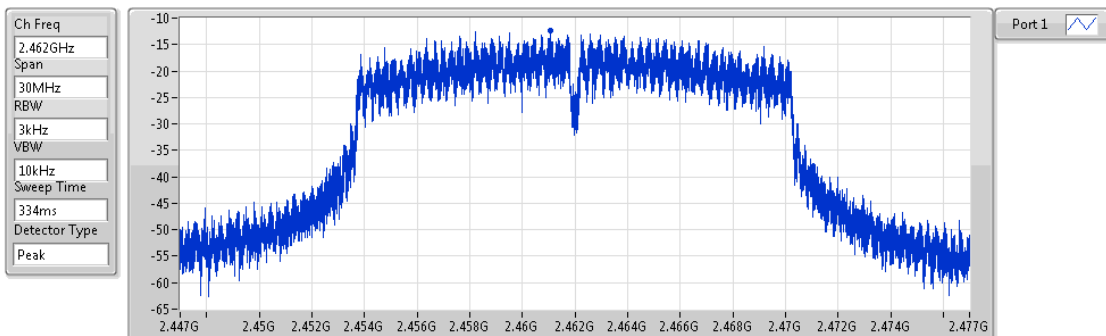


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.30	-12.30	-12.30

802.11g_(6Mbps)_1TX

PSD

2462MHz

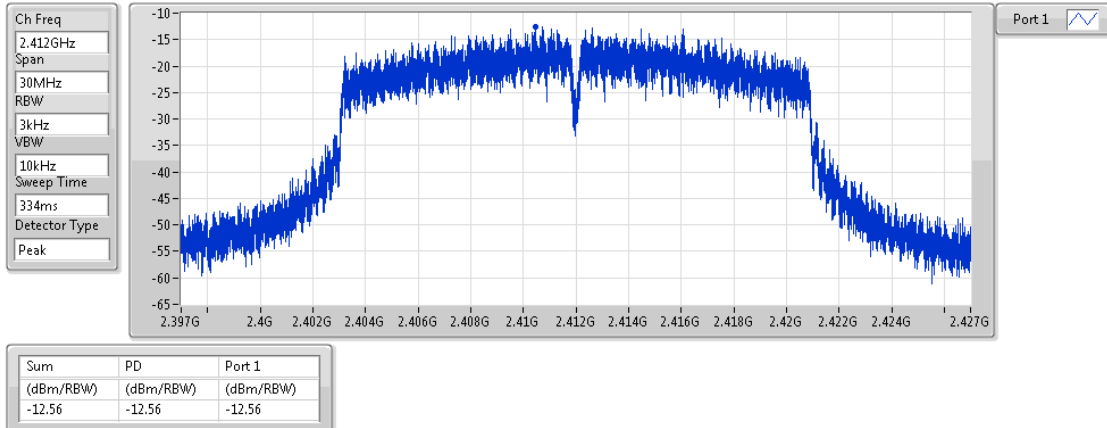


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.38	-12.38	-12.38

802.11n HT20_Nss1,(MCS0)_1TX

PSD

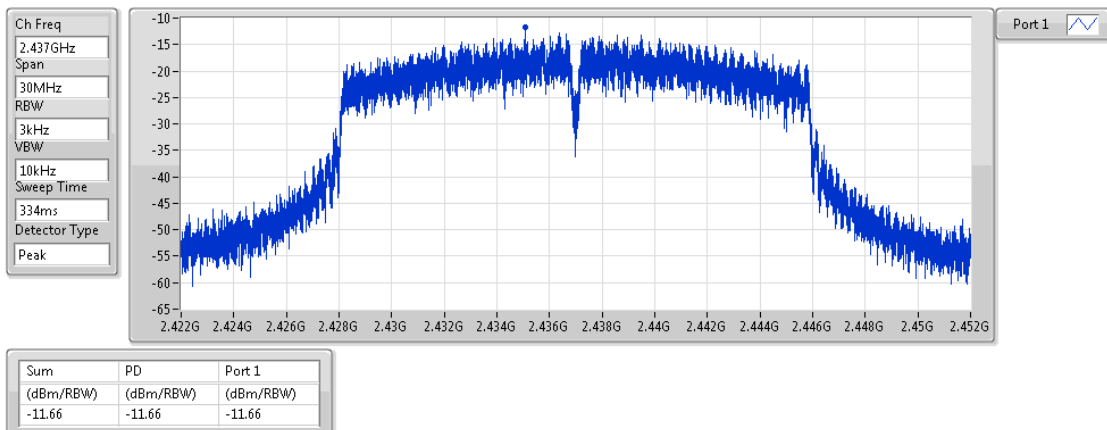
2412MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

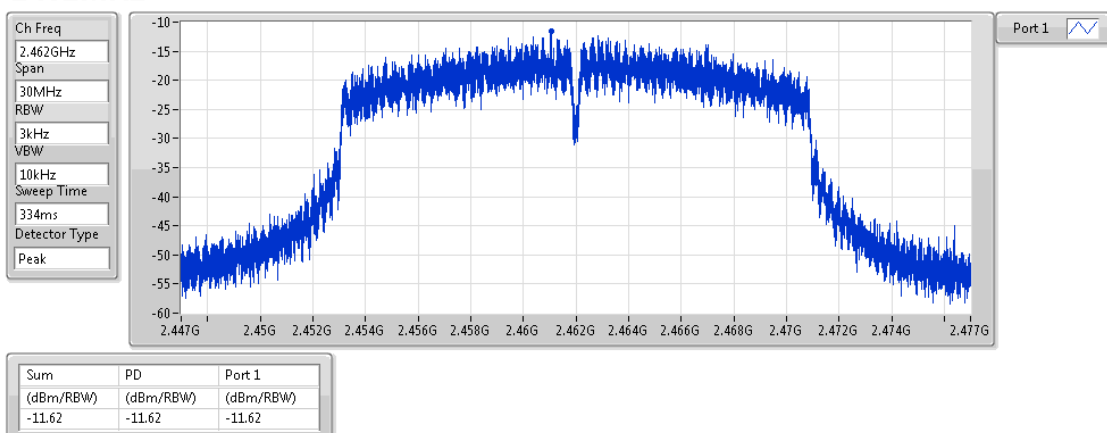
2437MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

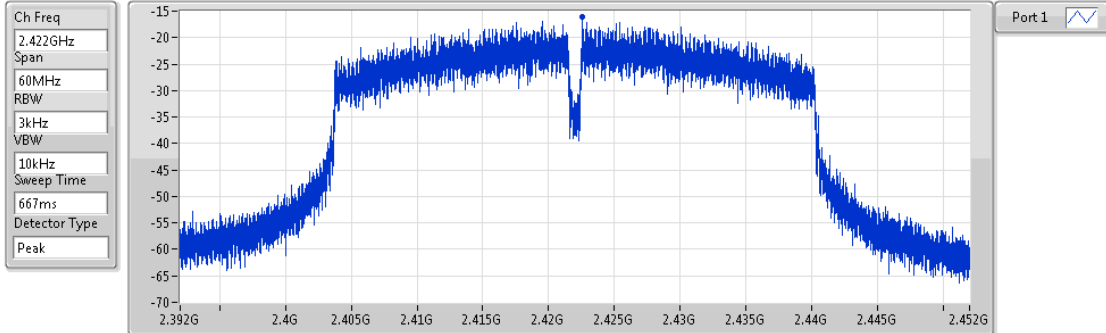
2462MHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

2422MHz

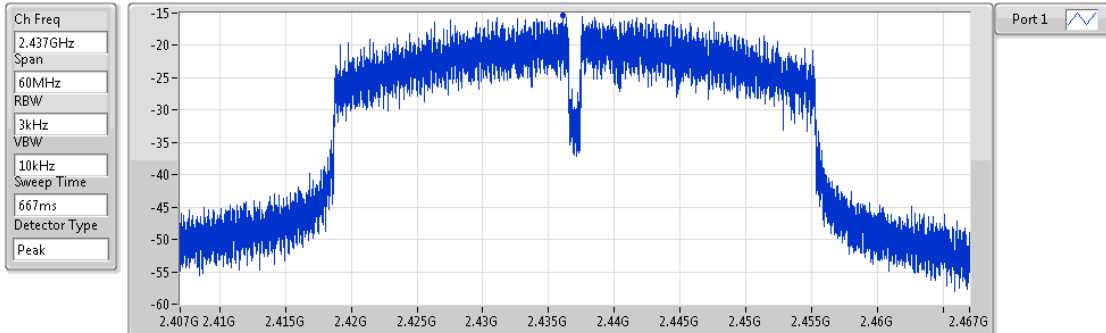


Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-16.08	-16.08	-16.08

802.11n HT40_Nss1,(MCS0)_1TX

PSD

2437MHz

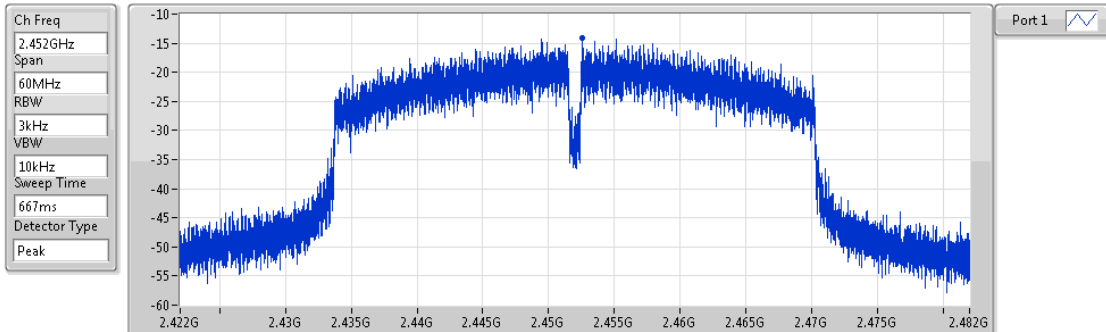


Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-15.28	-15.28	-15.28

802.11n HT40_Nss1,(MCS0)_1TX

PSD

2452MHz



Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-14.02	-14.02	-14.02

Summary

Mode	PD (dBm/RBW)
802.11n HT20_Nss1,(MCS0)_2TX	-
2.4-2.4835GHz	-9.29

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.31	-12.69	-14.77	-11.73	8.00
2437MHz	Pass	5.31	-11.14	-11.86	-9.29	8.00
2462MHz	Pass	5.31	-11.56	-12.87	-10.70	8.00

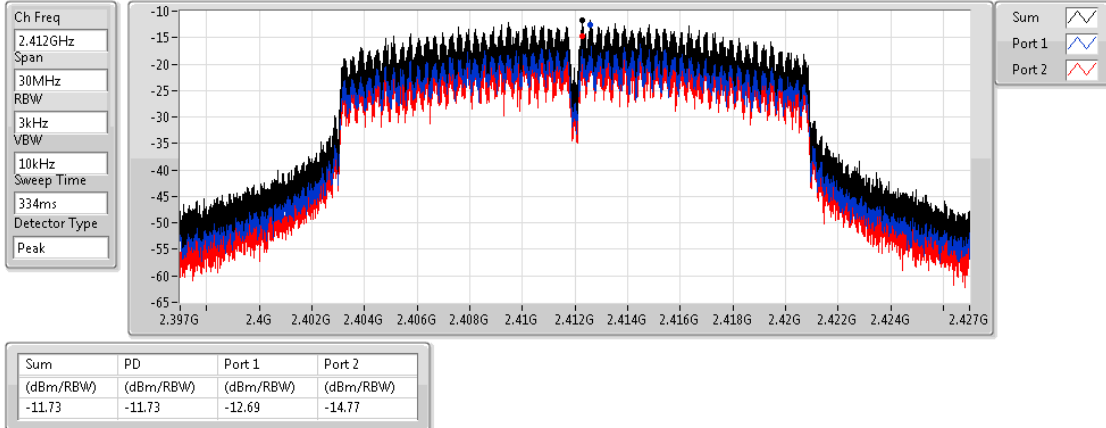
DG = Directional Gain; RBW=3kHz;

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

802.11n HT20_Nss1,(MCS0)_2TX

PSD

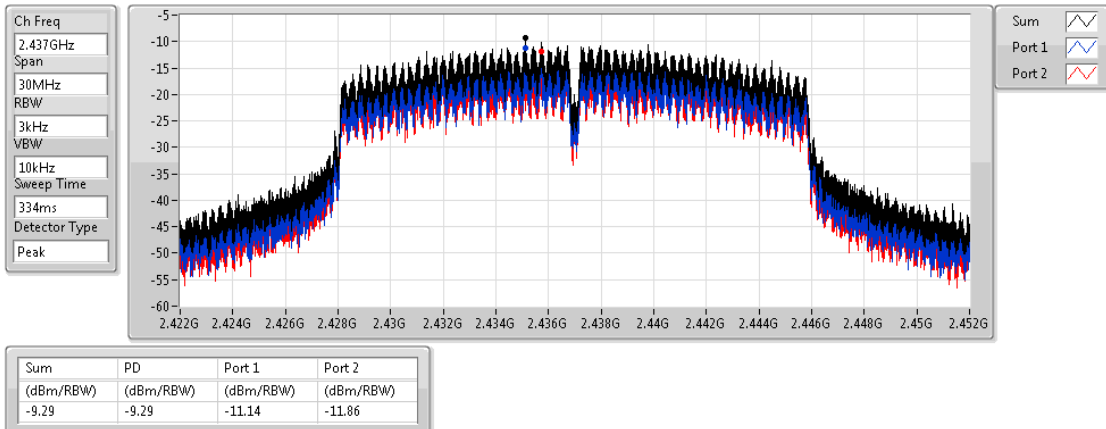
2412MHz



802.11n HT20_Nss1,(MCS0)_2TX

PSD

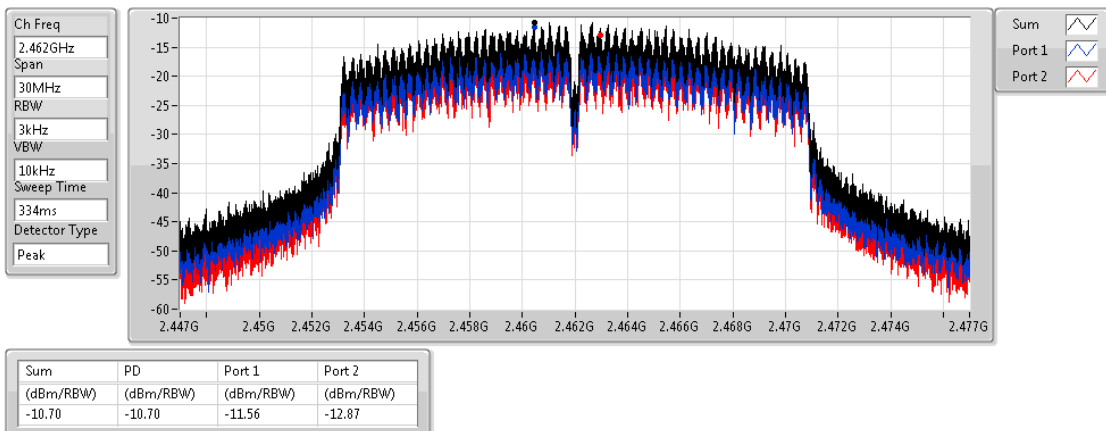
2437MHz



802.11n HT20_Nss1,(MCS0)_2TX

PSD

2462MHz



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	2.438243G	2.18	-27.82	49.805M	-56.13	2.39992G	-27.89	2.51526G	-59.46	16.422406G	-53.09	1

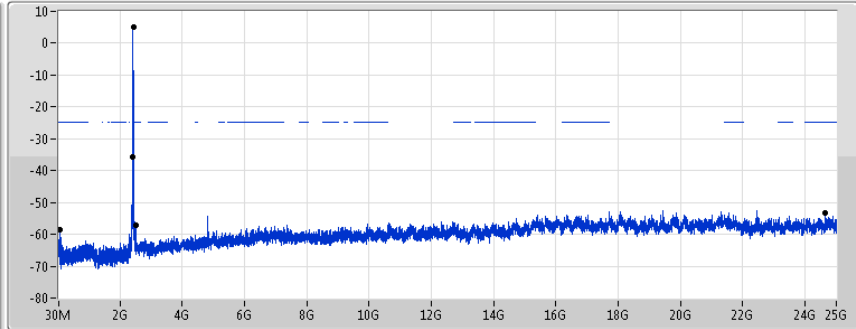
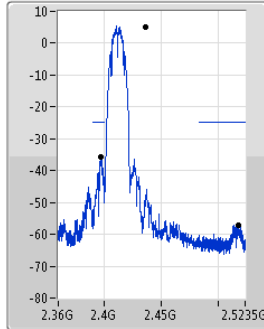
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.436239G	5.14	-24.86	49.805M	-58.43	2.39688G	-35.83	2.51758G	-57.05	24.640376G	-53.20	1
2437MHz	Pass	2.436239G	5.14	-24.86	49.805M	-58.80	2.39048G	-56.65	2.48782G	-56.33	24.789283G	-53.78	1
2462MHz	Pass	2.436239G	5.14	-24.86	49.805M	-58.26	2.39088G	-60.50	2.48686G	-49.73	24.853903G	-52.43	1
802.11g_(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.432064G	3.42	-26.58	34.66M	-61.27	2.39984G	-28.58	2.5143G	-59.38	24.752759G	-53.60	1
2437MHz	Pass	2.432064G	3.42	-26.58	49.805M	-59.10	2.39984G	-45.73	2.48358G	-52.40	16.422406G	-53.30	1
2462MHz	Pass	2.432064G	3.42	-26.58	49.805M	-61.05	2.39504G	-60.29	2.48382G	-44.66	24.730282G	-53.42	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.438243G	2.18	-27.82	49.805M	-56.13	2.39992G	-27.89	2.51526G	-59.46	16.422406G	-53.09	1
2437MHz	Pass	2.438243G	2.18	-27.82	33.495M	-57.75	2.39736G	-54.41	2.48542G	-57.77	21.420617G	-52.37	1
2462MHz	Pass	2.438243G	2.18	-27.82	49.805M	-56.47	2.39776G	-60.25	2.48358G	-41.42	16.756744G	-53.47	1
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.440748G	0.36	-29.64	49.465M	-60.81	2.3992G	-34.06	2.4859G	-58.33	21.774753G	-52.99	1
2437MHz	Pass	2.440748G	0.36	-29.64	34.58M	-61.18	2.39952G	-33.24	2.48366G	-43.64	23.4631G	-53.25	1
2452MHz	Pass	2.440748G	0.36	-29.64	794.86M	-62.06	2.39888G	-43.33	2.4843G	-31.18	16.69569G	-52.56	1

802.11b_(1Mbps)_1TX

CSE NdB

2412MHz

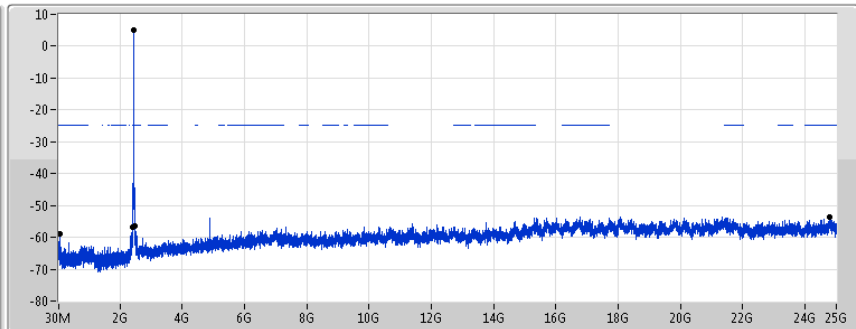
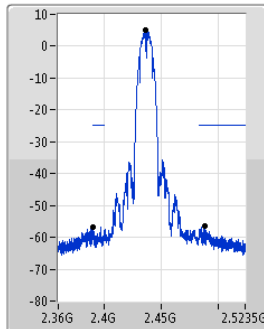


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.436239G	5.14	-24.86	49.805M	-58.43	2.39688G	-35.83	2.51758G	-57.05	24.640376G	-53.20	1

802.11b_(1Mbps)_1TX

CSE NdB

2437MHz

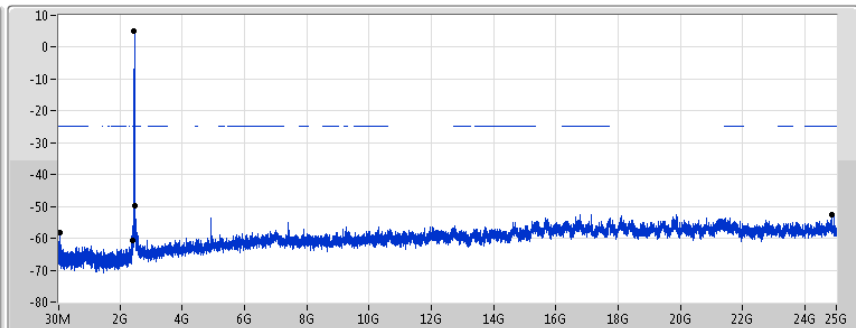
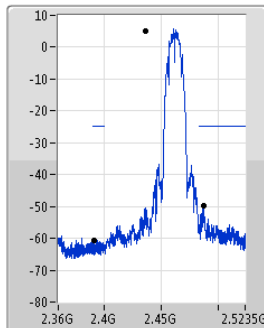


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.436239G	5.14	-24.86	49.805M	-58.80	2.39048G	-56.65	2.48782G	-56.33	24.789283G	-53.78	1

802.11b_(1Mbps)_1TX

CSE NdB

2462MHz

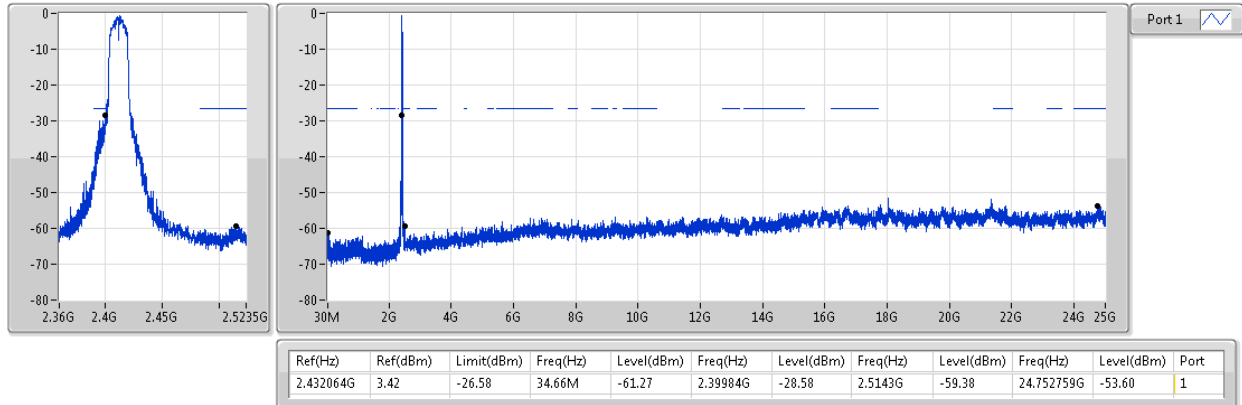


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.436239G	5.14	-24.86	49.805M	-58.26	2.39088G	-60.50	2.48686G	-49.73	24.853903G	-52.43	1

802.11g_(6Mbps)_1TX

CSE NdB

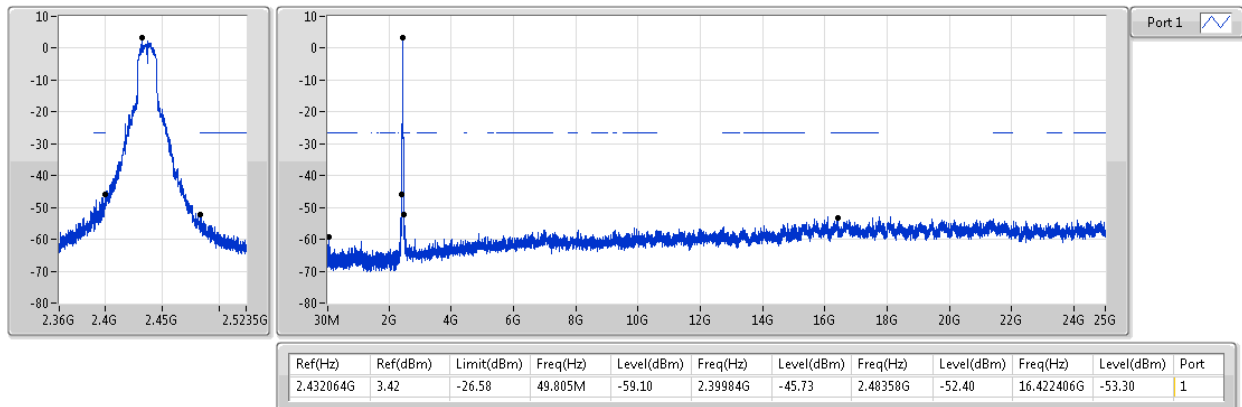
2412MHz



802.11g_(6Mbps)_1TX

CSE NdB

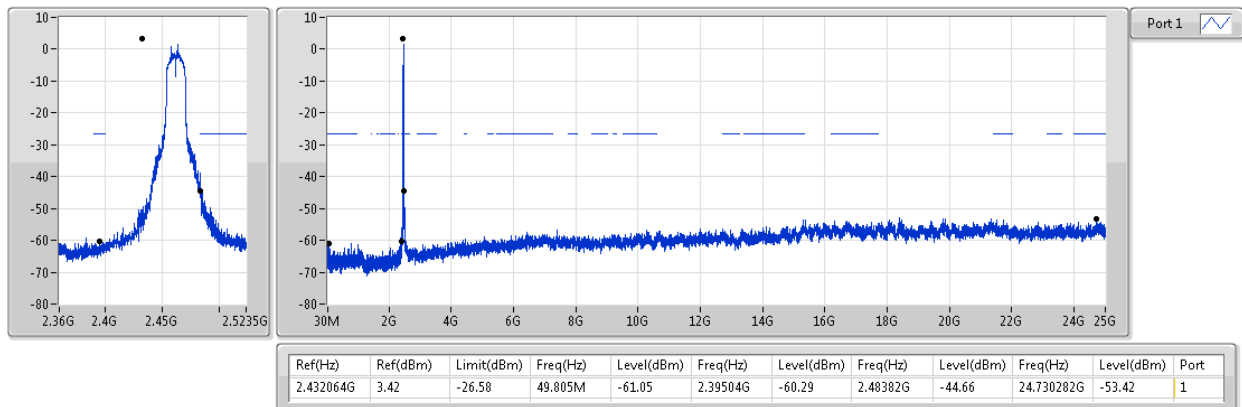
2437MHz



802.11g_(6Mbps)_1TX

CSE NdB

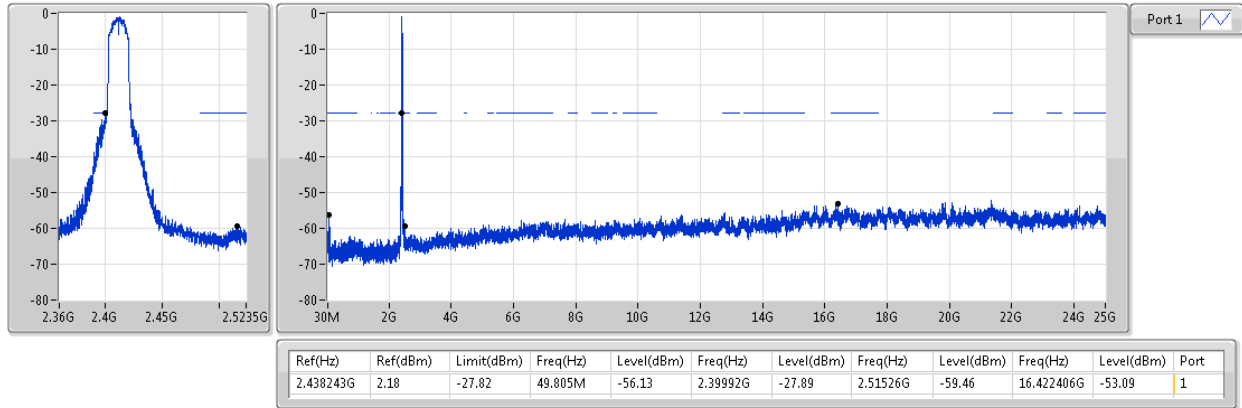
2462MHz



802.11n HT20_Nss1,(MCS0)_1TX

CSE NdB

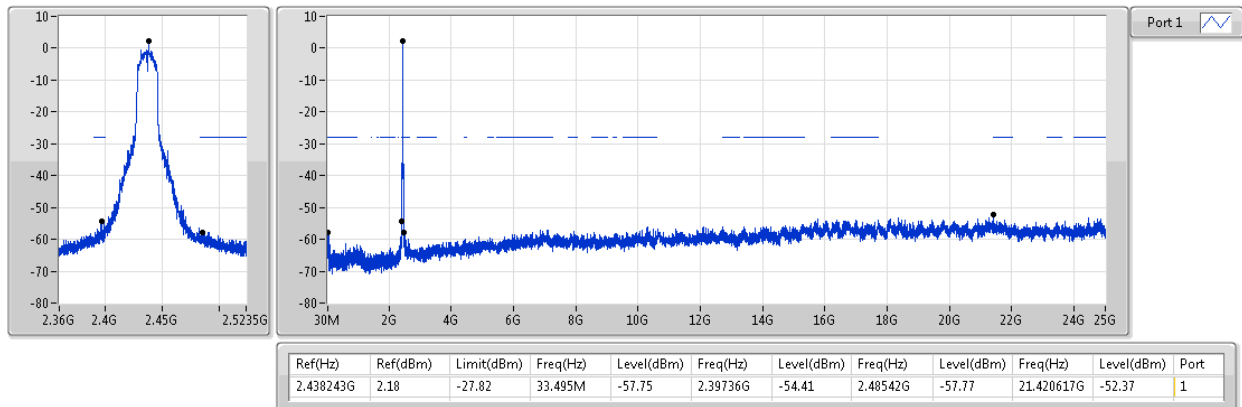
2412MHz



802.11n HT20_Nss1,(MCS0)_1TX

CSE NdB

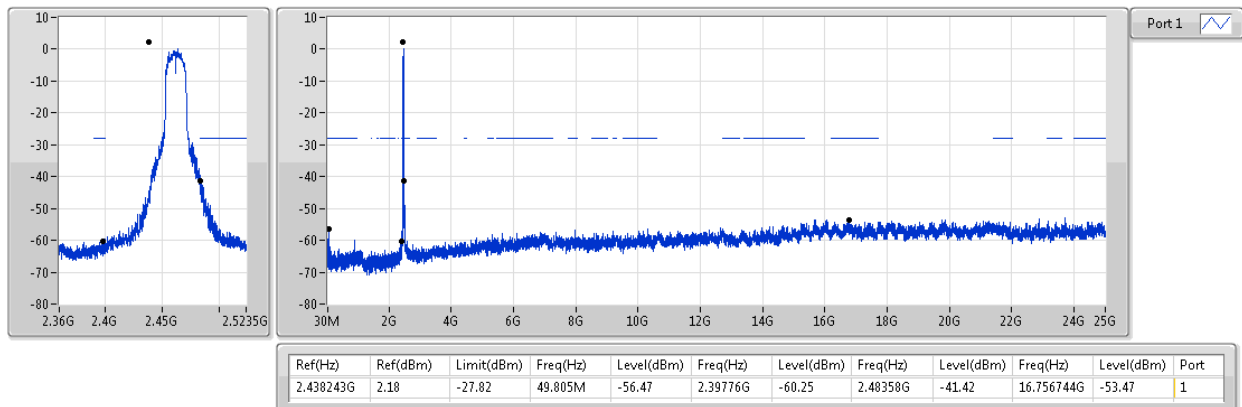
2437MHz



802.11n HT20_Nss1,(MCS0)_1TX

CSE NdB

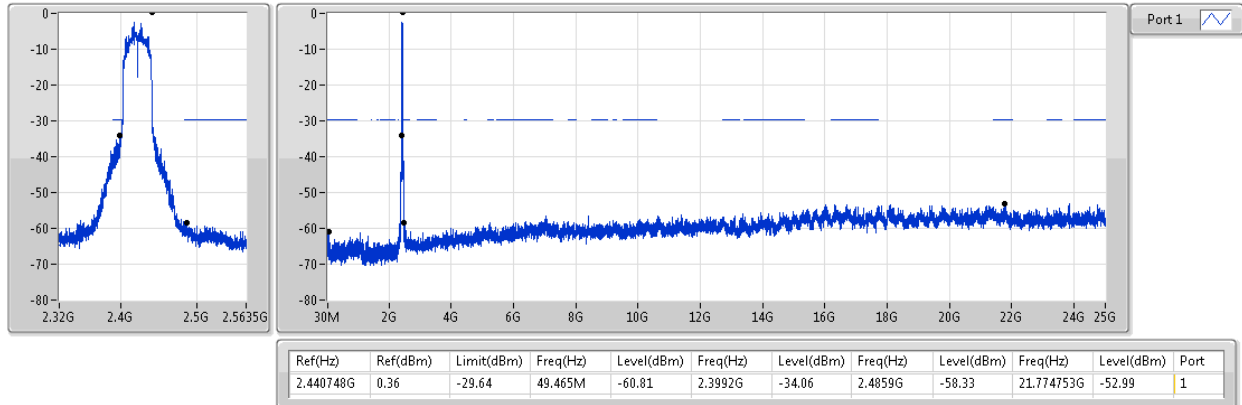
2462MHz



802.11n HT40_Nss1,(MCS0)_1TX

CSE NdB

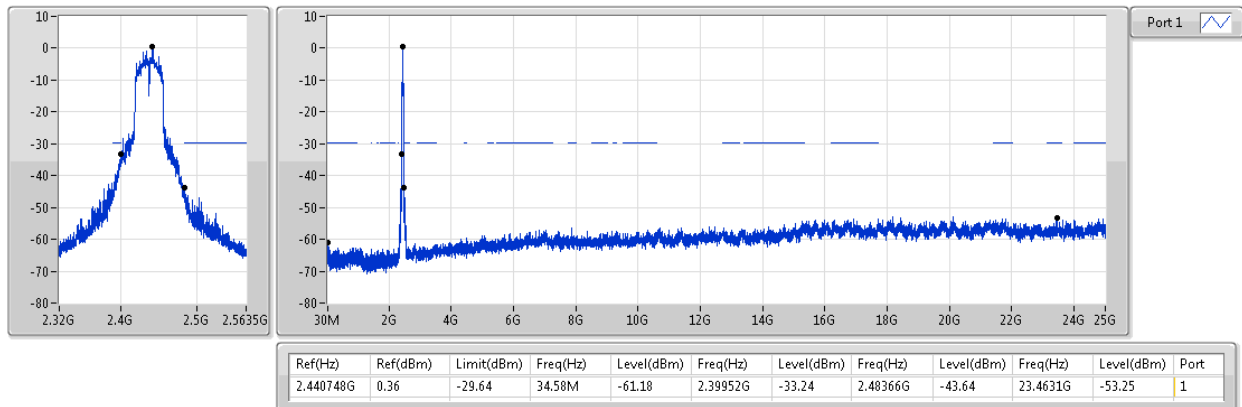
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802.11n HT40_Nss1,(MCS0)_1TX

CSE NdB

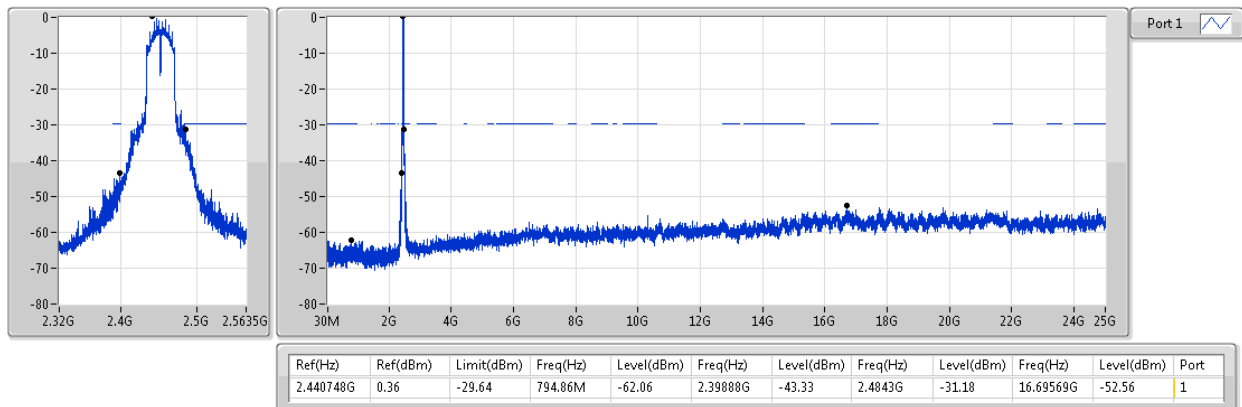
2437MHz



802.11n HT40_Nss1,(MCS0)_1TX

CSE NdB

2452MHz



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	2.435738G	2.97	-27.03	49.805M	-61.01	2.39768G	-27.48	2.48638G	-60.08	21.740908G	-52.67	1

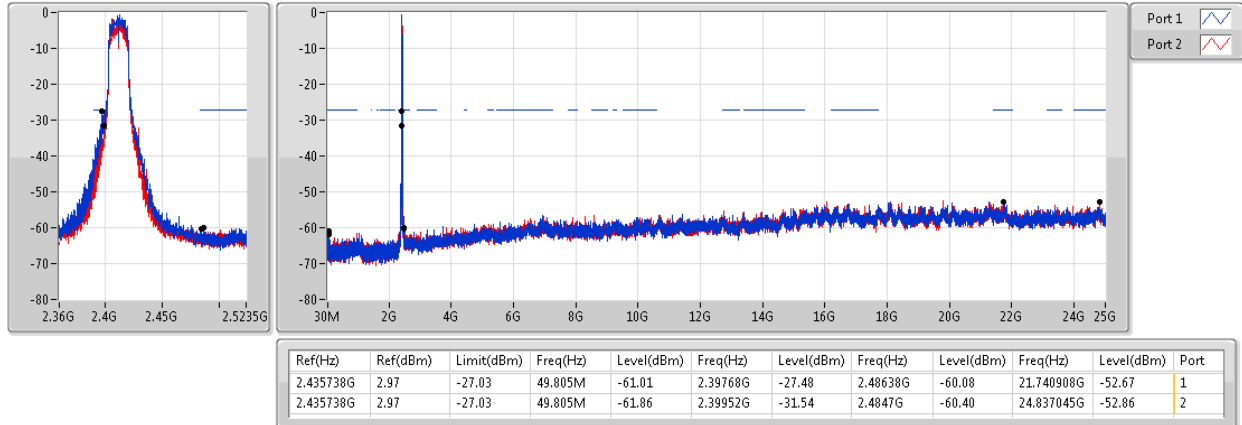
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.435738G	2.97	-27.03	49.805M	-61.01	2.39768G	-27.48	2.48638G	-60.08	21.740908G	-52.67	1
2412MHz	Pass	2.435738G	2.97	-27.03	49.805M	-61.86	2.39952G	-31.54	2.4847G	-60.40	24.837045G	-52.86	2
2437MHz	Pass	2.435738G	2.97	-27.03	49.805M	-61.67	2.39664G	-51.44	2.48606G	-56.64	21.763384G	-53.07	1
2437MHz	Pass	2.435738G	2.97	-27.03	49.805M	-61.26	2.39584G	-52.44	2.48734G	-55.65	17.178178G	-53.13	2
2462MHz	Pass	2.435738G	2.97	-27.03	752.3M	-61.89	2.39608G	-60.25	2.4839G	-38.77	16.751125G	-52.24	1
2462MHz	Pass	2.435738G	2.97	-27.03	31.165M	-60.83	2.39536G	-60.96	2.48406G	-44.42	16.759553G	-53.03	2

802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

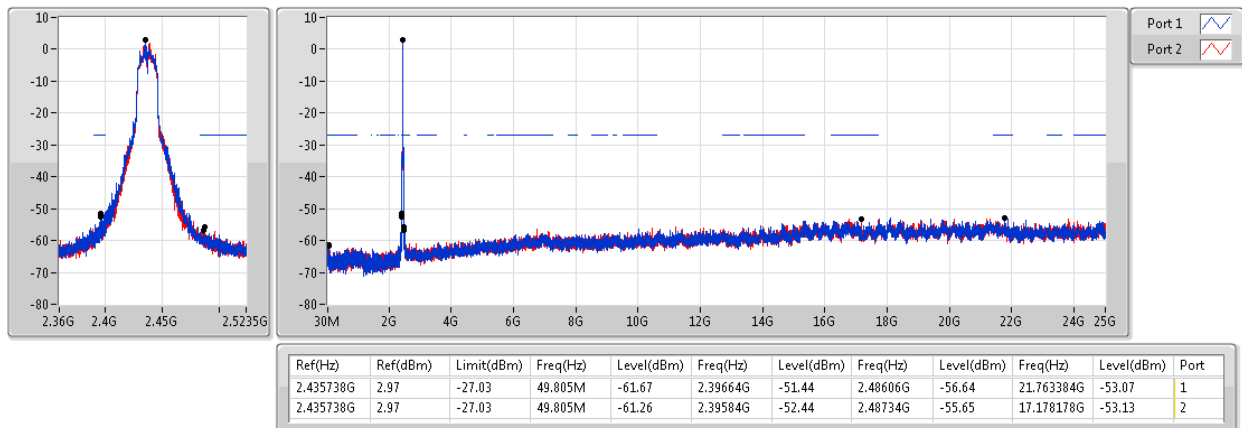
2412MHz



802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

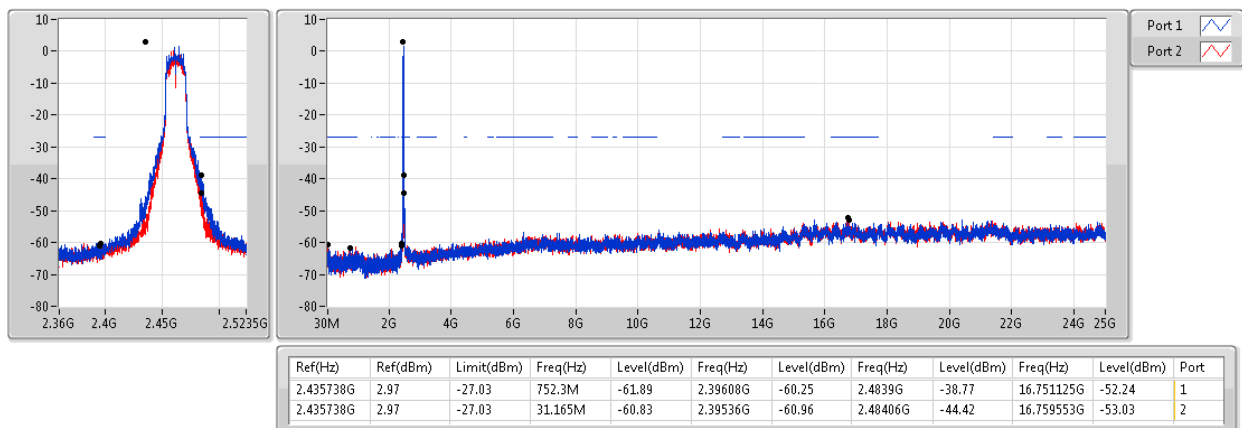
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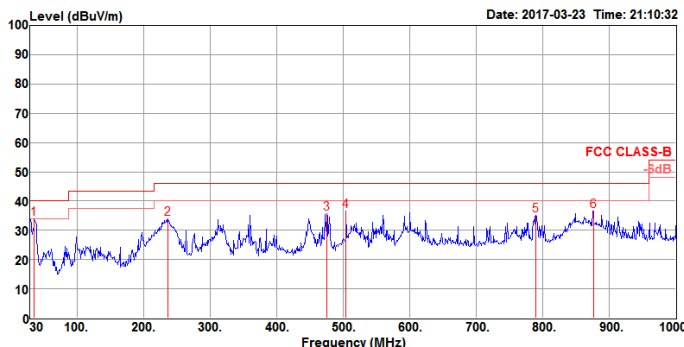


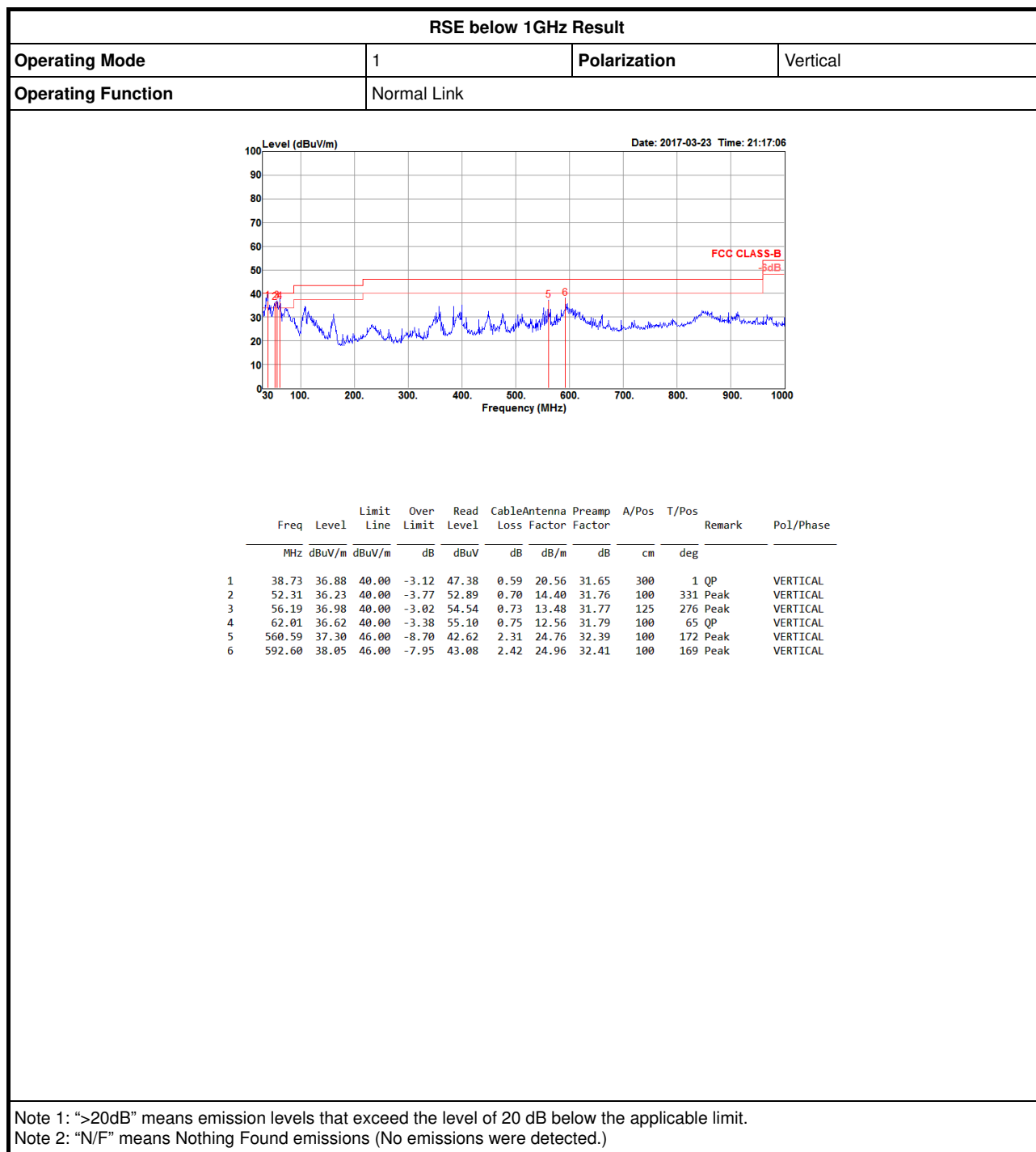
802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

2462MHz



RSE below 1GHz Result																																																																																																																			
Operating Mode	1			Polarization			Horizontal																																																																																																												
Operating Function	Normal Link																																																																																																																		
Level (dBuV/m)  <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Cable</th><th>Antenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>35.82</td><td>34.01</td><td>40.00</td><td>-5.99</td><td>42.87</td><td>0.57</td><td>22.18</td><td>31.61</td><td>200</td><td>2</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>236.61</td><td>33.82</td><td>46.00</td><td>-12.18</td><td>46.64</td><td>1.47</td><td>17.67</td><td>31.96</td><td>125</td><td>174</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>475.23</td><td>35.80</td><td>46.00</td><td>-10.20</td><td>42.66</td><td>2.14</td><td>23.27</td><td>32.27</td><td>200</td><td>142</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>504.33</td><td>36.59</td><td>46.00</td><td>-9.41</td><td>43.01</td><td>2.19</td><td>23.72</td><td>32.33</td><td>150</td><td>193</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>5</td><td>789.51</td><td>35.13</td><td>46.00</td><td>-10.87</td><td>38.16</td><td>2.97</td><td>26.50</td><td>32.50</td><td>100</td><td>315</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>6</td><td>875.84</td><td>36.59</td><td>46.00</td><td>-9.41</td><td>38.78</td><td>2.90</td><td>27.40</td><td>32.49</td><td>100</td><td>81</td><td>Peak</td><td>HORIZONTAL</td></tr></table>													Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg			1	35.82	34.01	40.00	-5.99	42.87	0.57	22.18	31.61	200	2	Peak	HORIZONTAL	2	236.61	33.82	46.00	-12.18	46.64	1.47	17.67	31.96	125	174	Peak	HORIZONTAL	3	475.23	35.80	46.00	-10.20	42.66	2.14	23.27	32.27	200	142	Peak	HORIZONTAL	4	504.33	36.59	46.00	-9.41	43.01	2.19	23.72	32.33	150	193	Peak	HORIZONTAL	5	789.51	35.13	46.00	-10.87	38.16	2.97	26.50	32.50	100	315	Peak	HORIZONTAL	6	875.84	36.59	46.00	-9.41	38.78	2.90	27.40	32.49	100	81	Peak	HORIZONTAL
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																																																																							
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg																																																																																																									
1	35.82	34.01	40.00	-5.99	42.87	0.57	22.18	31.61	200	2	Peak	HORIZONTAL																																																																																																							
2	236.61	33.82	46.00	-12.18	46.64	1.47	17.67	31.96	125	174	Peak	HORIZONTAL																																																																																																							
3	475.23	35.80	46.00	-10.20	42.66	2.14	23.27	32.27	200	142	Peak	HORIZONTAL																																																																																																							
4	504.33	36.59	46.00	-9.41	43.01	2.19	23.72	32.33	150	193	Peak	HORIZONTAL																																																																																																							
5	789.51	35.13	46.00	-10.87	38.16	2.97	26.50	32.50	100	315	Peak	HORIZONTAL																																																																																																							
6	875.84	36.59	46.00	-9.41	38.78	2.90	27.40	32.49	100	81	Peak	HORIZONTAL																																																																																																							
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.)																																																																																																																			

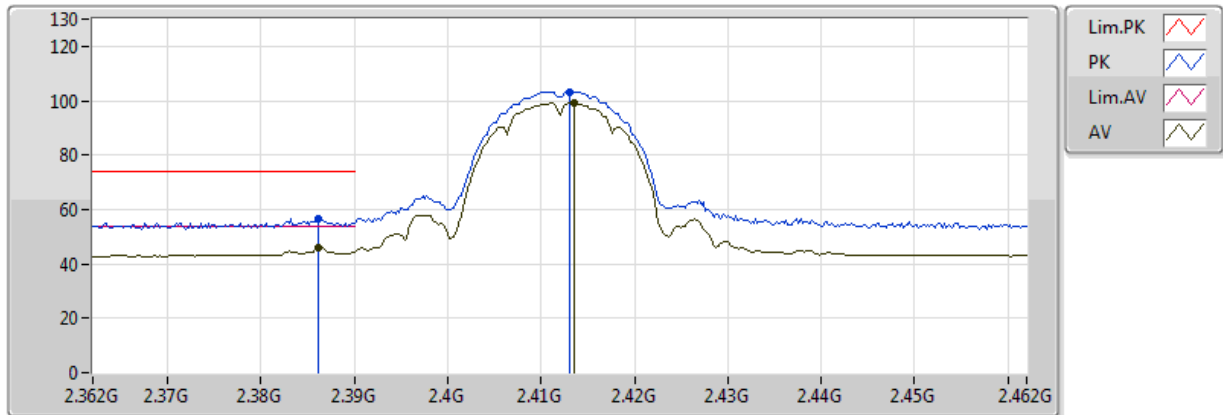


**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	2.3896G	53.96	54.00	-0.04	32.67	3	V	313	2.26	-

802.11b_(1Mbps)_1TX

2412MHz_TX

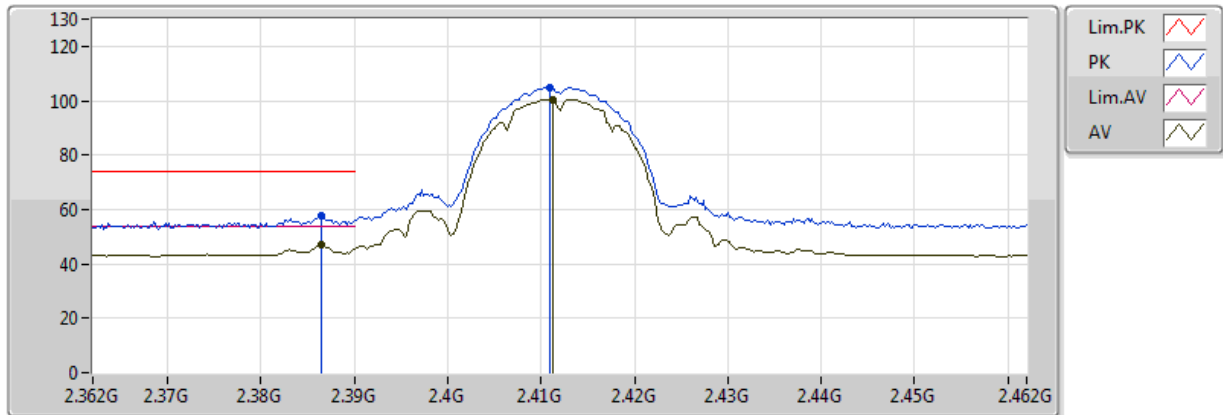


20170327
EUT Y_1TX
Setting 20000
01-W-3
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3862G	45.96	54.00	-8.04	31.04	3	V	21	2.50	-
AV	2.4136G	98.97	Inf	-Inf	31.00	3	V	21	2.50	-
PK	2.3862G	56.42	74.00	-17.58	31.04	3	V	21	2.50	-
PK	2.413G	103.25	Inf	-Inf	31.00	3	V	21	2.50	-

802.11b_(1Mbps)_1TX

2412MHz_TX

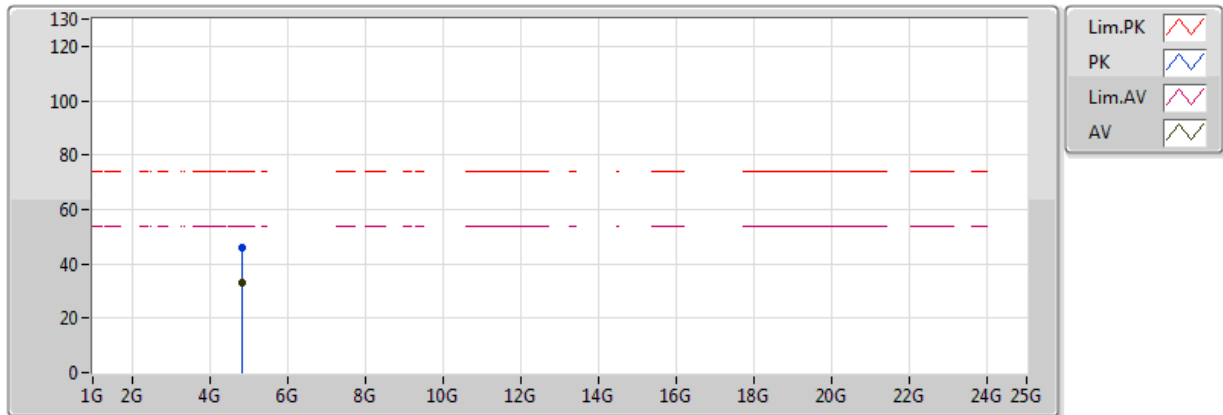


20170327
EUT Y_1TX
Setting 20000
01-W-3
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3864G	47.01	54.00	-6.99	31.04	3	H	9	1.45	-
AV	2.4112G	100.45	Inf	-Inf	31.01	3	H	9	1.45	-
PK	2.3864G	57.48	74.00	-16.52	31.04	3	H	9	1.45	-
PK	2.411G	104.72	Inf	-Inf	31.01	3	H	9	1.45	-

802.11b_(1Mbps)_1TX

2412MHz_TX

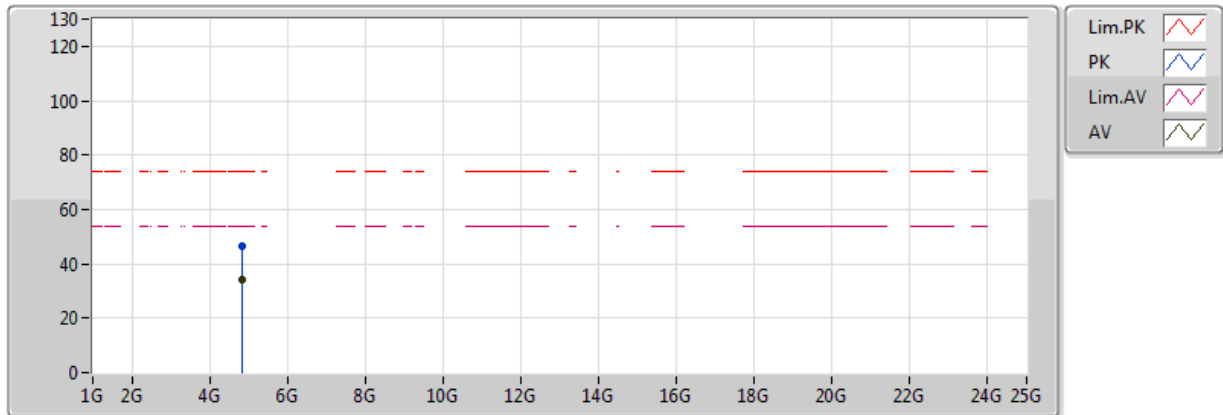


20170327
EUT Y_1TX
Setting 20000
01-W-3
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82404G	33.13	54.00	-20.87	3.40	3	V	342	1.14	-
PK	4.82422G	46.17	74.00	-27.83	3.40	3	V	342	1.14	-

802.11b_(1Mbps)_1TX

2412MHz_TX

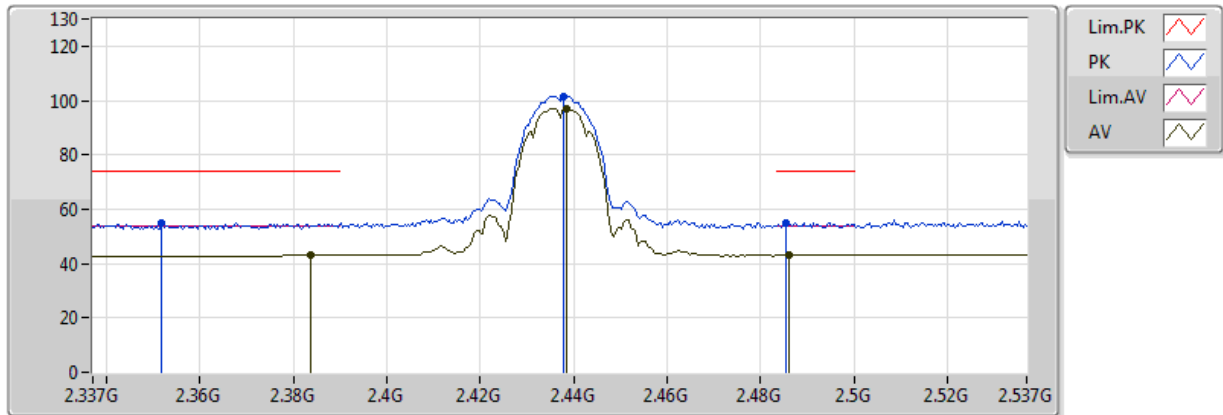


20170327
EUT_Y_1TX
Setting 20000
01-W-3
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82402G	34.29	54.00	-19.71	3.40	3	H	66	2.99	-
PK	4.82393G	46.71	74.00	-27.29	3.40	3	H	66	2.99	-

802.11b_(1Mbps)_1TX

2437MHz_TX

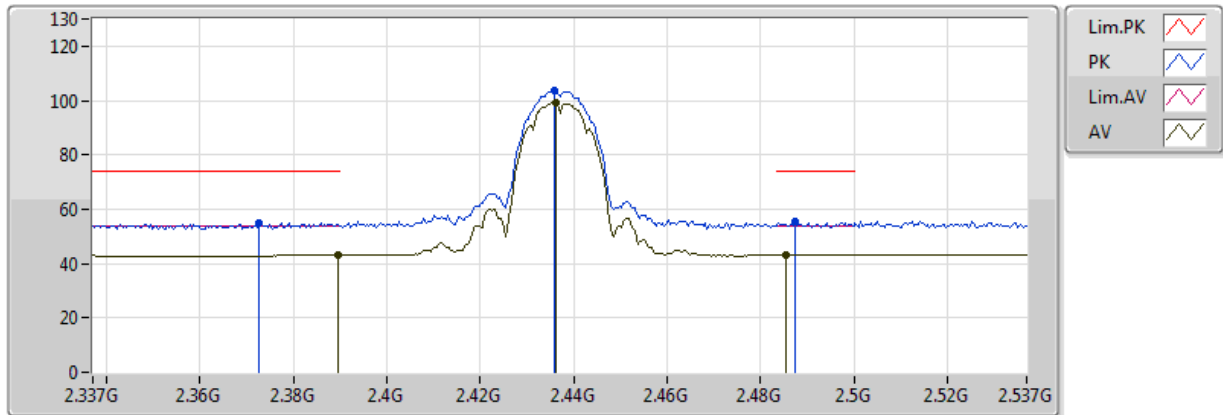


20170327
EUT Y_1TX
Setting 20000
01-W-3
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3838G	43.12	54.00	-10.88	31.04	3	V	17	2.44	-
AV	2.4386G	97.12	Inf	-Inf	30.97	3	V	17	2.44	-
AV	2.4862G	43.12	54.00	-10.88	30.92	3	V	17	2.44	-
PK	2.3518G	54.75	74.00	-19.25	31.09	3	V	17	2.44	-
PK	2.4378G	101.58	Inf	-Inf	30.97	3	V	17	2.44	-
PK	2.4854G	55.12	74.00	-18.88	30.92	3	V	17	2.44	-

802.11b_(1Mbps)_1TX

2437MHz_TX

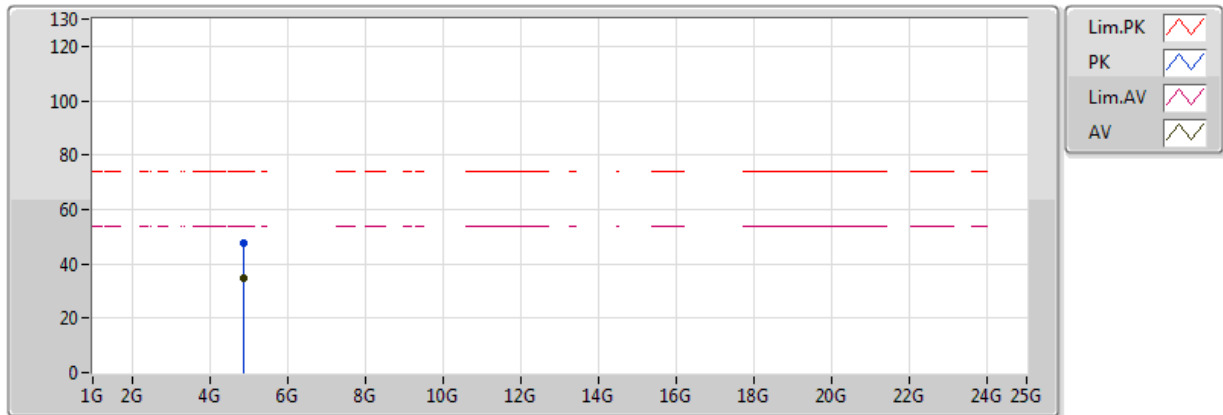


20170327
EUT Y_1TX
Setting 20000
01-W-3
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3894G	43.41	54.00	-10.59	31.04	3	H	11	1.07	-
AV	2.4362G	99.11	Inf	-Inf	30.98	3	H	11	1.07	-
AV	2.4854G	43.16	54.00	-10.84	30.92	3	H	11	1.07	-
PK	2.3726G	55.00	74.00	-19.00	31.06	3	H	11	1.07	-
PK	2.4358G	103.46	Inf	-Inf	30.98	3	H	11	1.07	-
PK	2.4874G	55.52	74.00	-18.48	30.92	3	H	11	1.07	-

802.11b_(1Mbps)_1TX

2437MHz_TX

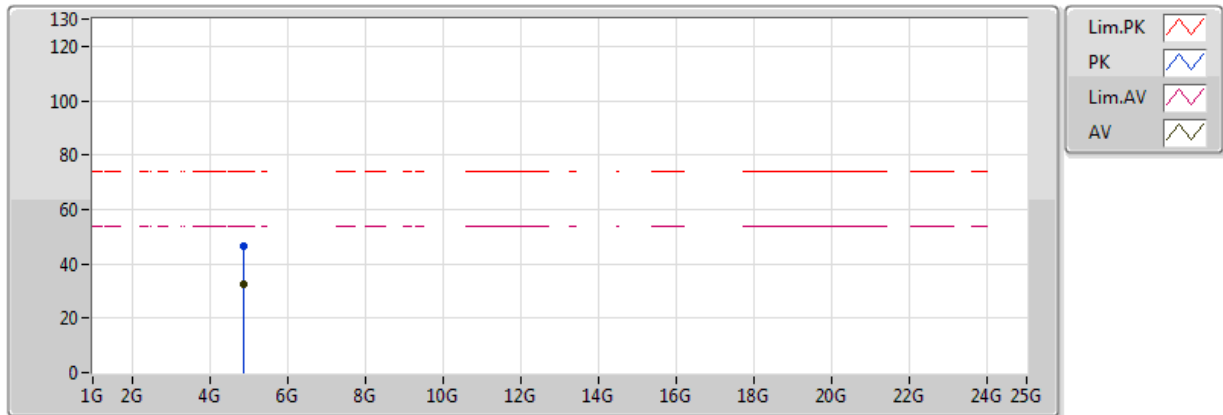


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87394G	34.82	54.00	-19.18	3.84	3	V	25	1.50	-
PK	4.87394G	47.49	74.00	-26.51	3.84	3	V	25	1.50	-

802.11b_(1Mbps)_1TX

2437MHz_TX

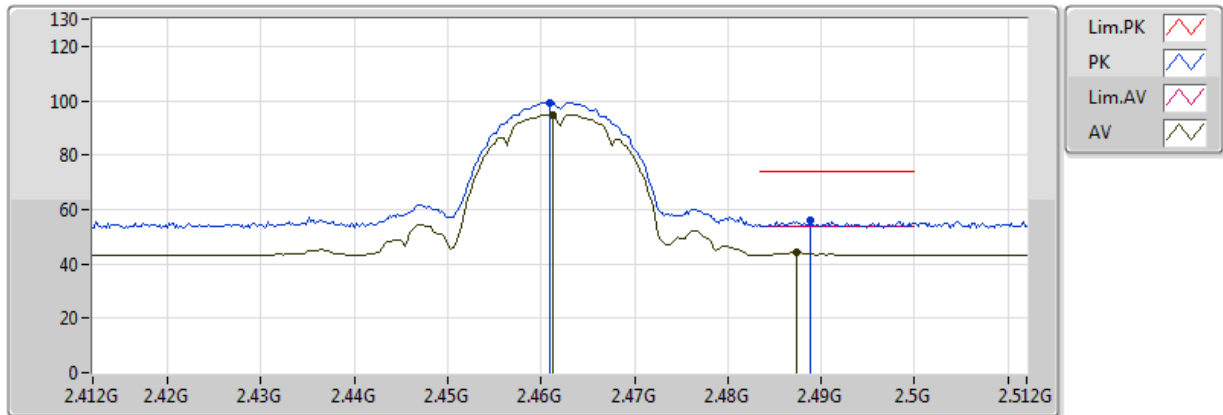


20170327
EUT_Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87404G	32.72	54.00	-21.28	3.84	3	H	289	1.67	-
PK	4.86946G	46.54	74.00	-27.46	3.82	3	H	289	1.67	-

802.11b_(1Mbps)_1TX

2462MHz_TX

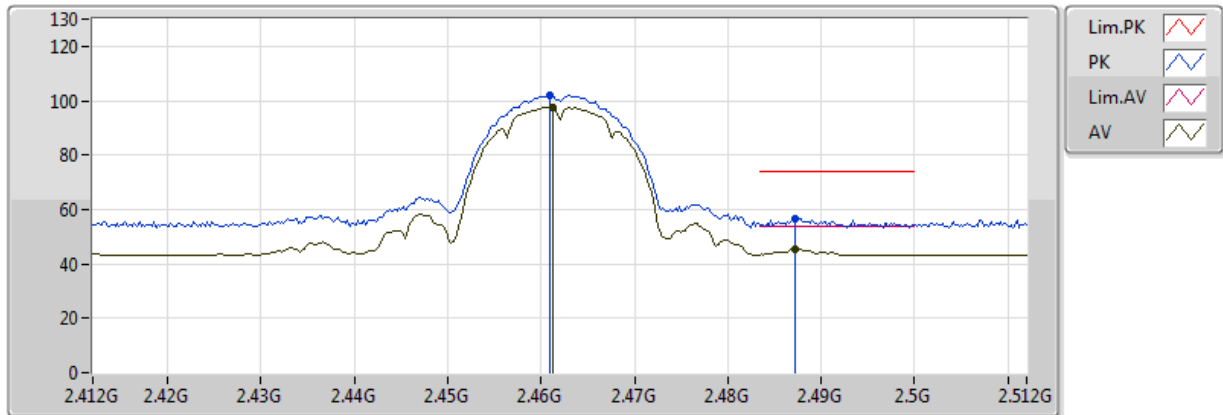


20170327
EUT_Y_1TX
Setting 20000
01-W-3
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4612G	94.79	Inf	-Inf	30.95	3	V	311	1.88	-
AV	2.4874G	44.32	54.00	-9.68	30.92	3	V	311	1.88	-
PK	2.461G	99.19	Inf	-Inf	30.95	3	V	311	1.88	-
PK	2.4888G	56.01	74.00	-17.99	30.91	3	V	311	1.88	-

802.11b_(1Mbps)_1TX

2462MHz_TX

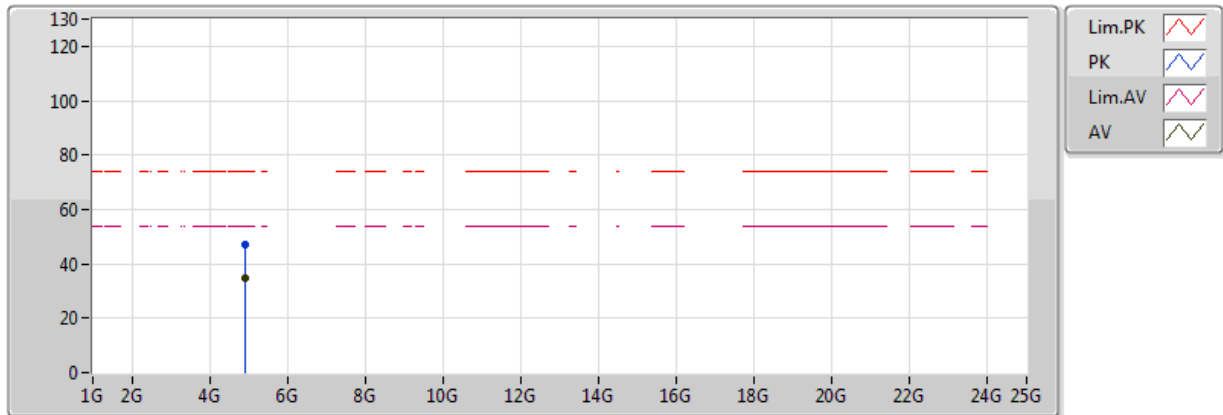


20170327
EUT_Y_1TX
Setting 20000
01-W-3
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4612G	97.49	Inf	-Inf	30.95	3	H	16	1.05	-
AV	2.4872G	45.40	54.00	-8.60	30.92	3	H	16	1.05	-
PK	2.461G	101.85	Inf	-Inf	30.95	3	H	16	1.05	-
PK	2.4872G	56.60	74.00	-17.40	30.92	3	H	16	1.05	-

802.11b_(1Mbps)_1TX

2462MHz_TX

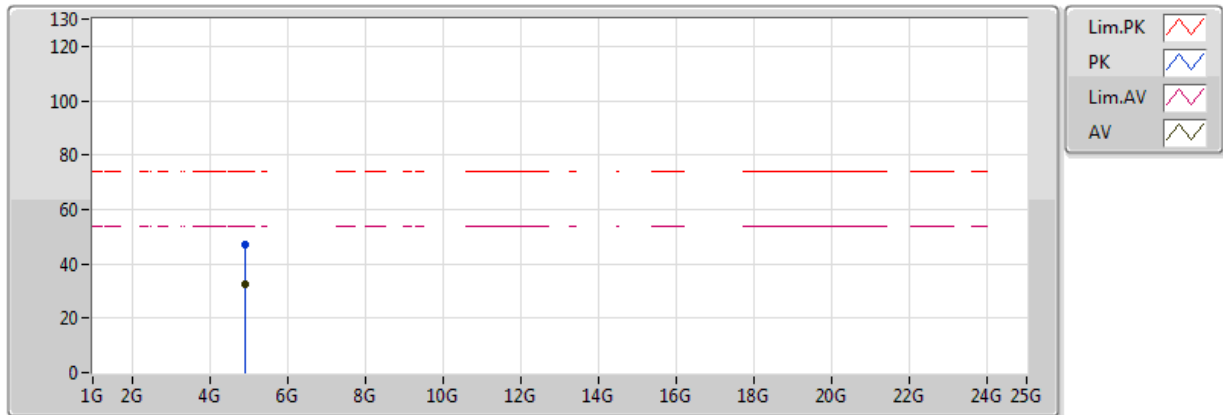


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92392G	34.63	54.00	-19.37	3.98	3	V	345	1.50	-
PK	4.92394G	46.94	74.00	-27.06	3.98	3	V	345	1.50	-

802.11b_(1Mbps)_1TX

2462MHz_TX

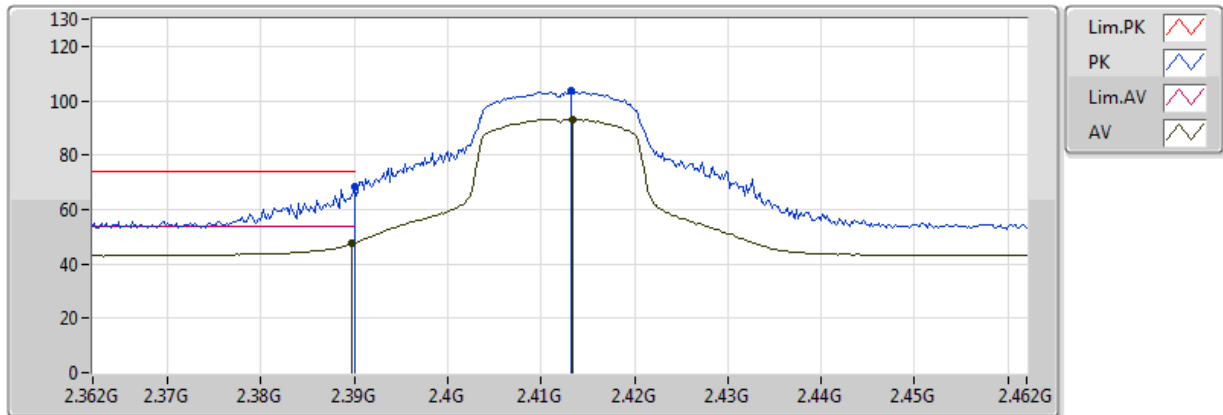


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9197G	32.23	54.00	-21.77	3.97	3	H	243	1.95	-
PK	4.91948G	46.86	74.00	-27.14	3.97	3	H	243	1.95	-

802.11g_(6Mbps)_1TX

2412MHz_TX

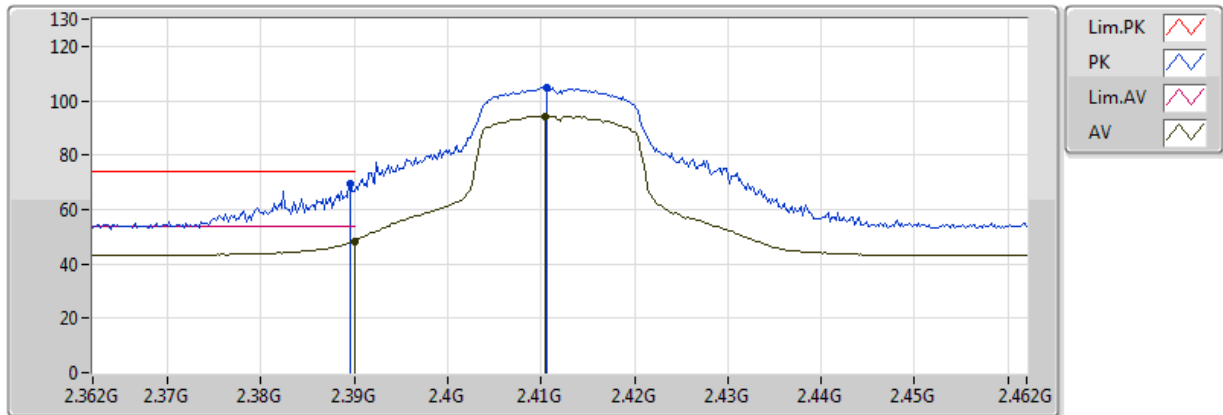


20170327
EUT Y_1TX
Setting 20000
01-W-3
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3898G	47.55	54.00	-6.45	31.04	3	V	22	2.57	-
AV	2.4134G	93.21	Inf	-Inf	31.00	3	V	22	2.57	-
PK	2.389998G	68.49	74.00	-5.51	31.04	3	V	22	2.57	-
PK	2.4132G	103.44	Inf	-Inf	31.00	3	V	22	2.57	-

802.11g_(6Mbps)_1TX

2412MHz_TX

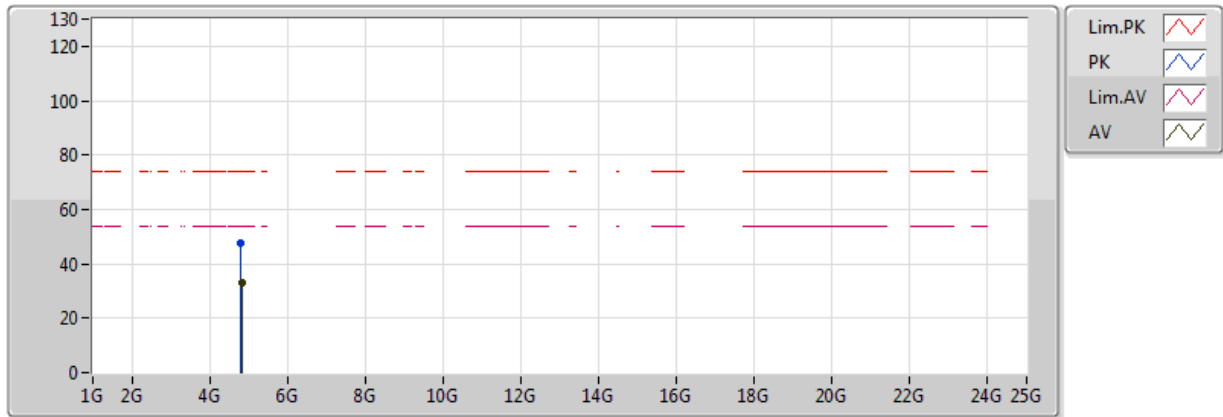


20170327
EUT Y_1TX
Setting 20000
01-W-3
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	48.45	54.00	-5.55	31.04	3	H	10	1.43	-
AV	2.4104G	94.40	Inf	-Inf	31.01	3	H	10	1.43	-
PK	2.3896G	69.36	74.00	-4.64	31.04	3	H	10	1.43	-
PK	2.4106G	105.00	Inf	-Inf	31.01	3	H	10	1.43	-

802.11g_(6Mbps)_1TX

2412MHz_TX

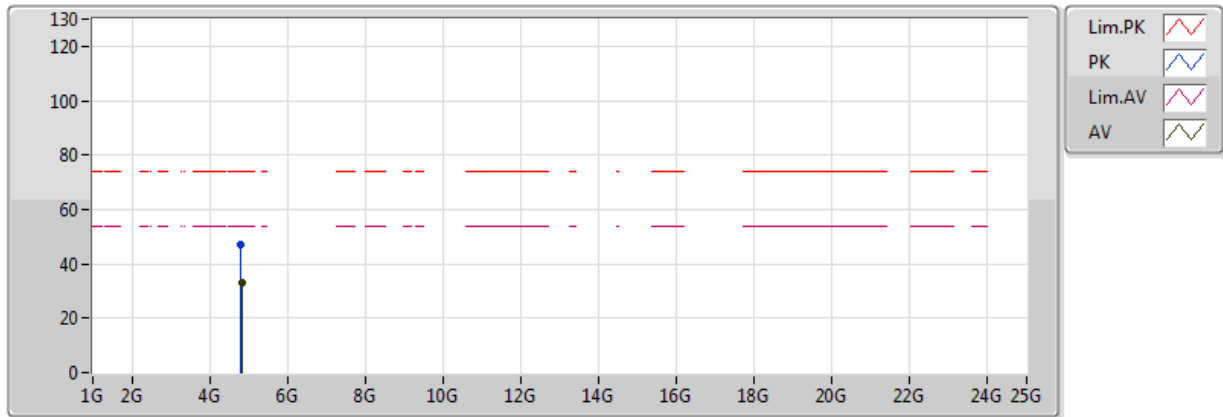


20170327
EUT_Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.83858G	33.24	54.00	-20.76	3.74	3	V	297	2.19	-
PK	4.80906G	47.67	74.00	-26.33	3.66	3	V	297	2.19	-

802.11g_(6Mbps)_1TX

2412MHz_TX

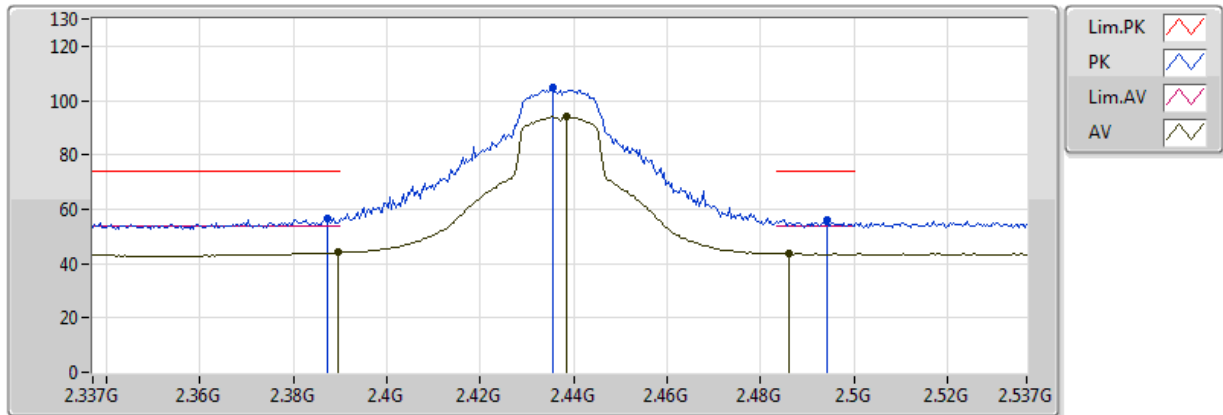


20170327
EUT_Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.83804G	33.19	54.00	-20.81	3.74	3	H	201	1.17	-
PK	4.81044G	47.11	74.00	-26.89	3.66	3	H	201	1.17	-

802.11g_(6Mbps)_1TX

2437MHz_TX

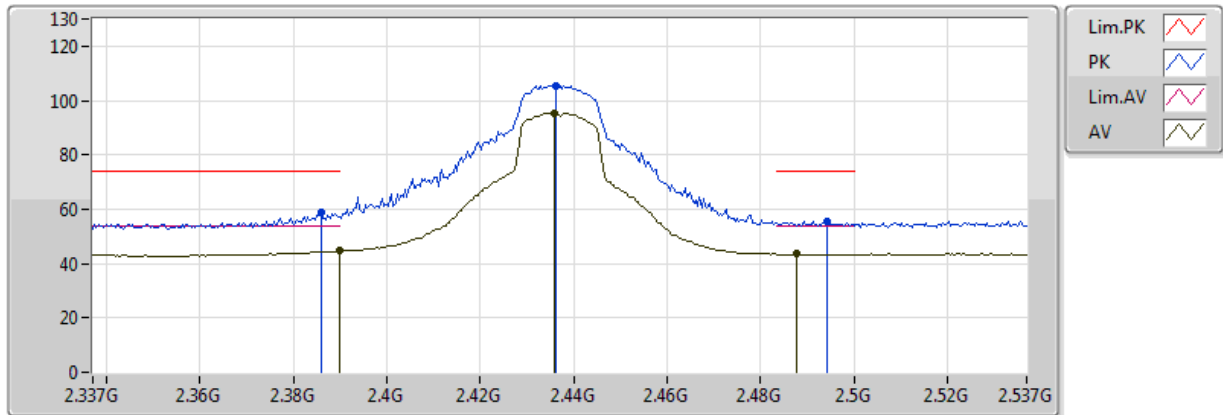


20170327
EUT Y_1TX
Setting 20000
01-W-3
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3894G	44.05	54.00	-9.95	31.04	3	V	25	2.45	-
AV	2.4386G	94.10	Inf	-Inf	30.97	3	V	25	2.45	-
AV	2.4862G	43.56	54.00	-10.44	30.92	3	V	25	2.45	-
PK	2.3874G	56.73	74.00	-17.27	31.04	3	V	25	2.45	-
PK	2.4354G	104.81	Inf	-Inf	30.98	3	V	25	2.45	-
PK	2.4942G	56.00	74.00	-18.00	30.91	3	V	25	2.45	-

802.11g_(6Mbps)_1TX

2437MHz_TX

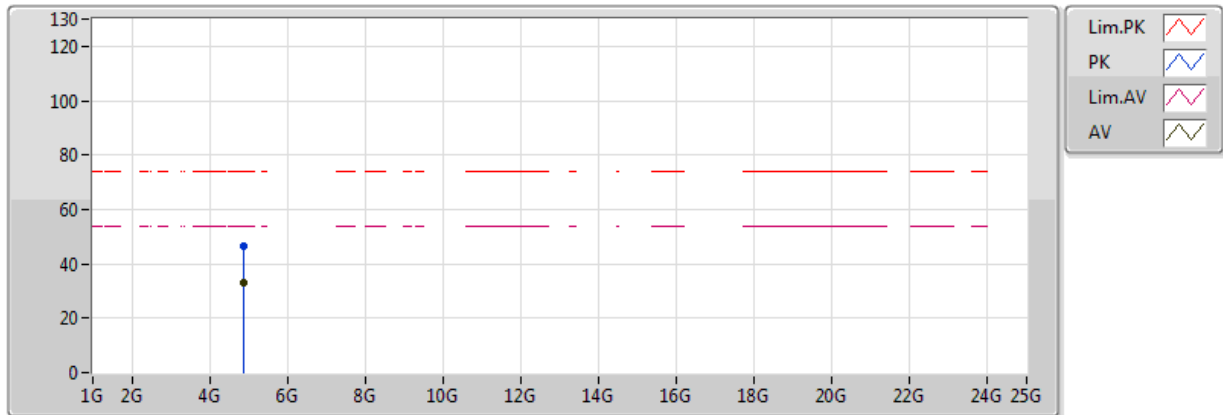


20170327
EUT Y_1TX
Setting 20000
01-W-3
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3898G	44.58	54.00	-9.42	31.04	3	H	12	1.10	-
AV	2.4358G	95.41	Inf	-Inf	30.98	3	H	12	1.10	-
AV	2.4878G	43.47	54.00	-10.53	30.91	3	H	12	1.10	-
PK	2.3858G	58.62	74.00	-15.38	31.04	3	H	12	1.10	-
PK	2.4362G	105.55	Inf	-Inf	30.98	3	H	12	1.10	-
PK	2.4942G	55.46	74.00	-18.54	30.91	3	H	12	1.10	-

802.11g_(6Mbps)_1TX

2437MHz_TX

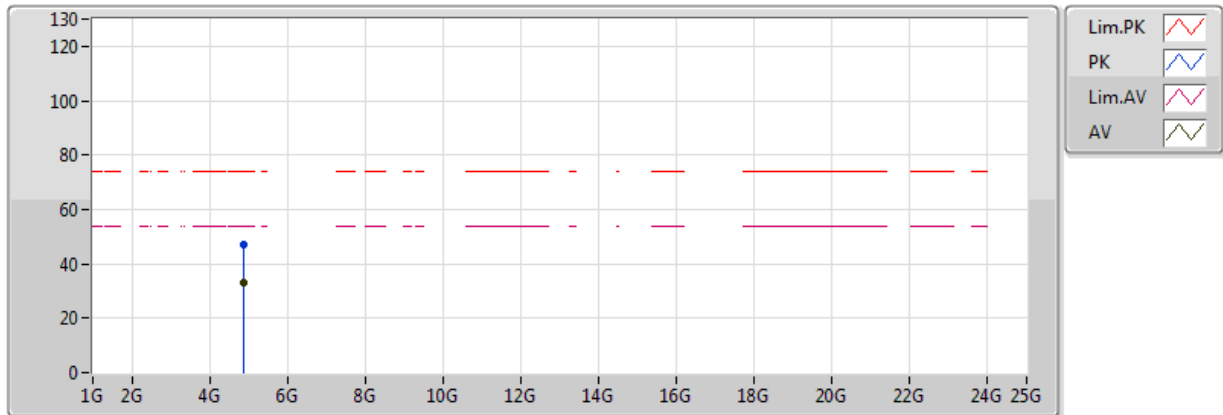


20170327
EUT_Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.86122G	33.02	54.00	-20.98	3.80	3	V	271	1.76	-
PK	4.88726G	46.62	74.00	-27.38	3.87	3	V	271	1.76	-

802.11g_(6Mbps)_1TX

2437MHz_TX

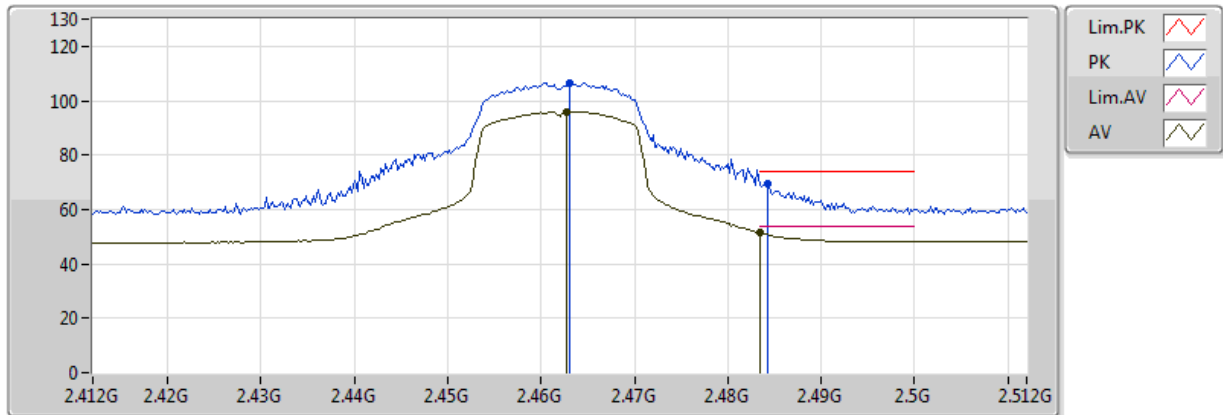


20170327
EUT_Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8626G	33.08	54.00	-20.92	3.81	3	H	292	1.14	-
PK	4.85918G	47.12	74.00	-26.88	3.80	3	H	292	1.14	-

802.11g_(6Mbps)_1TX

2462MHz_TX

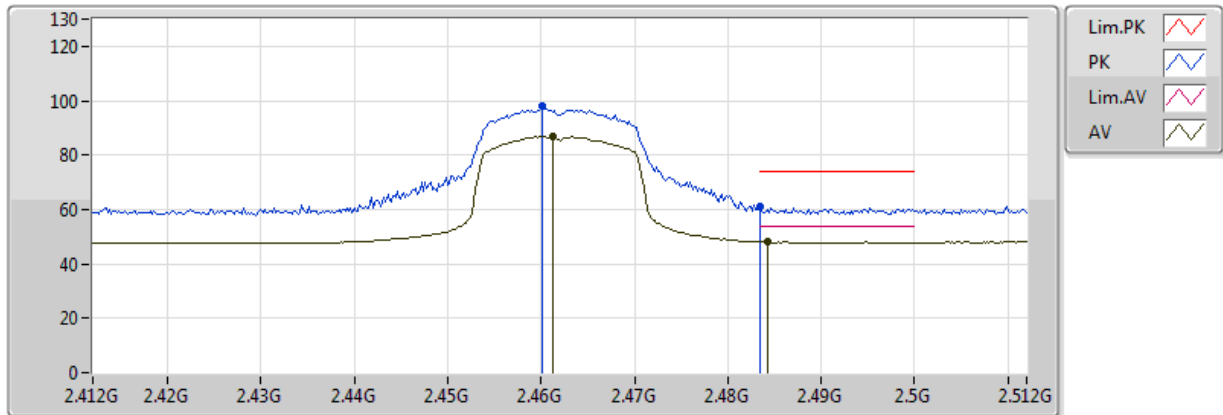


20170327
EUT_Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4628G	96.08	Inf	-Inf	32.75	3	V	311	1.99	-
AV	2.483502G	51.53	54.00	-2.47	32.78	3	V	311	1.99	-
PK	2.463G	106.55	Inf	-Inf	32.75	3	V	311	1.99	-
PK	2.4842G	69.23	74.00	-4.77	32.78	3	V	311	1.99	-

802.11g_(6Mbps)_1TX

2462MHz_TX

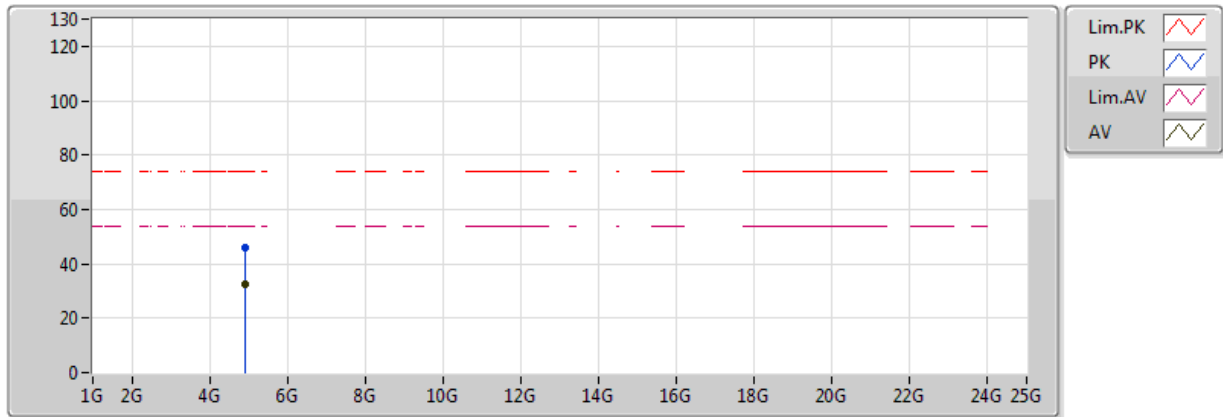


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4612G	86.95	Inf	-Inf	32.75	3	H	69	1.46	-
AV	2.4842G	47.98	54.00	-6.02	32.78	3	H	69	1.46	-
PK	2.4602G	97.82	Inf	-Inf	32.75	3	H	69	1.46	-
PK	2.483502G	61.08	74.00	-12.92	32.78	3	H	69	1.46	-

802.11g_(6Mbps)_1TX

2462MHz_TX

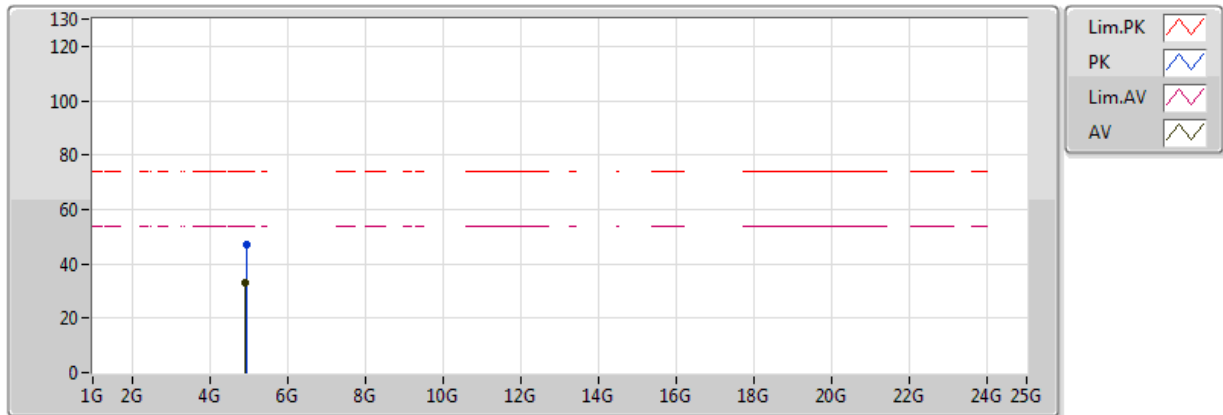


20170327
EUT_Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9183G	32.71	54.00	-21.29	3.96	3	V	153	1.65	-
PK	4.91476G	46.04	74.00	-27.96	3.95	3	V	153	1.65	-

802.11g_(6Mbps)_1TX

2462MHz_TX

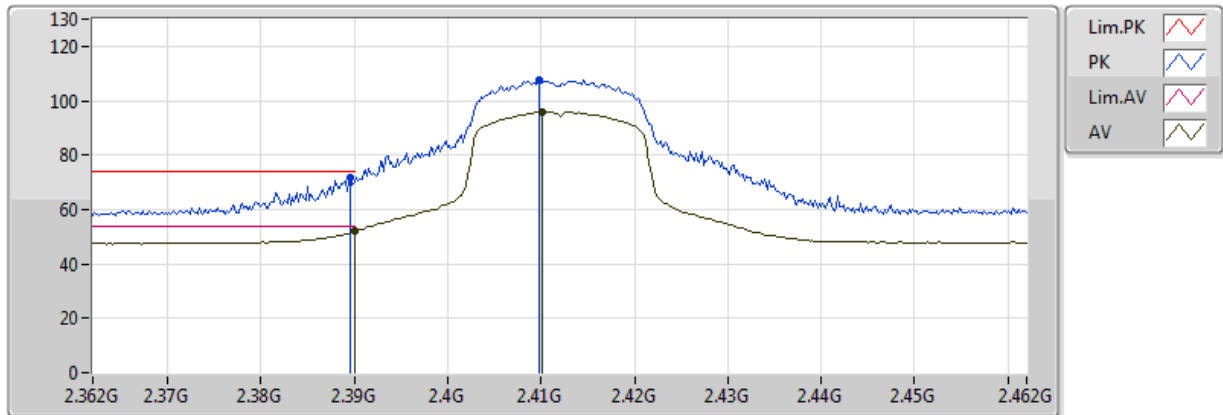


20170327
EUT_Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.91596G	32.81	54.00	-21.19	3.96	3	H	24	1.74	-
PK	4.93804G	46.98	74.00	-27.02	4.02	3	H	24	1.74	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

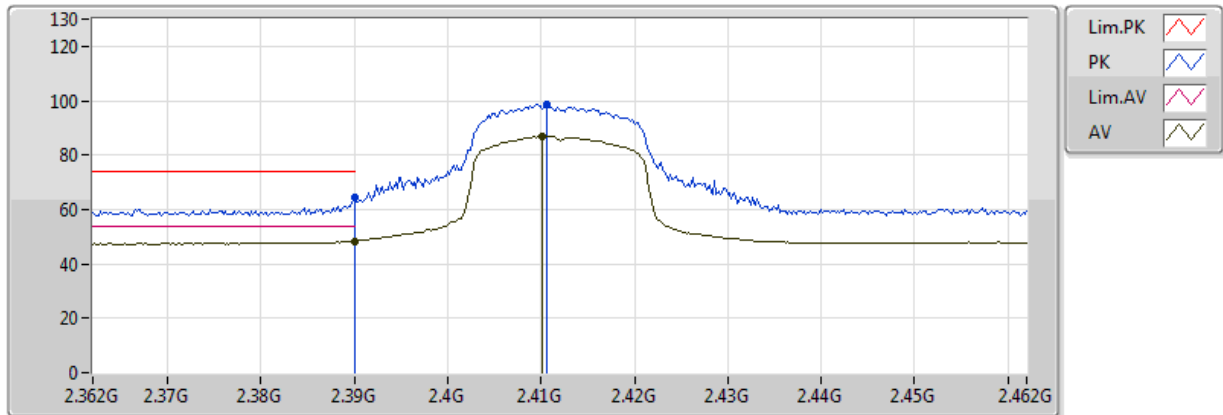


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	51.96	54.00	-2.04	32.67	3	V	331	1.41	-
AV	2.4102G	95.87	Inf	-Inf	32.68	3	V	331	1.41	-
PK	2.3896G	71.72	74.00	-2.28	32.67	3	V	331	1.41	-
PK	2.4098G	107.60	Inf	-Inf	32.68	3	V	331	1.41	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

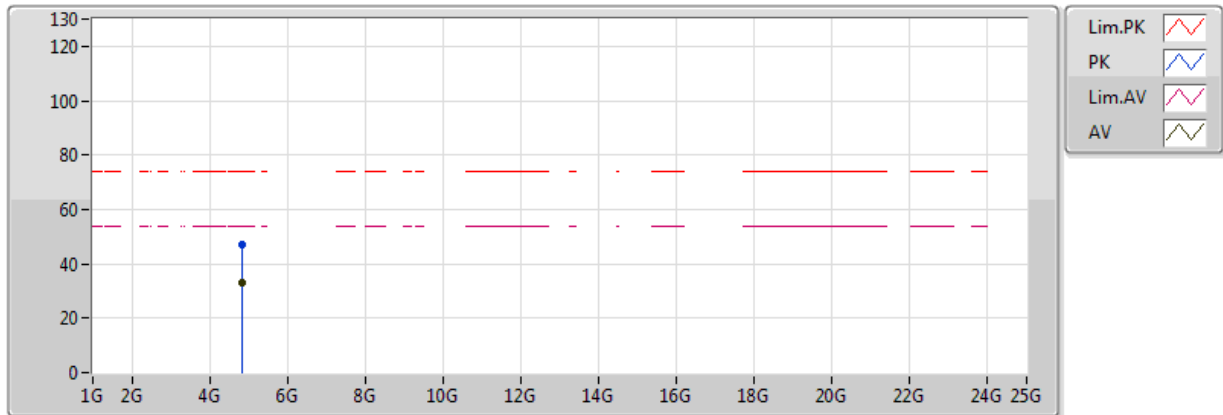


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	48.44	54.00	-5.56	32.67	3	H	330	2.43	-
AV	2.4102G	86.91	Inf	-Inf	32.68	3	H	330	2.43	-
PK	2.39G	64.58	74.00	-9.42	32.67	3	H	330	2.43	-
PK	2.4106G	98.67	Inf	-Inf	32.68	3	H	330	2.43	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

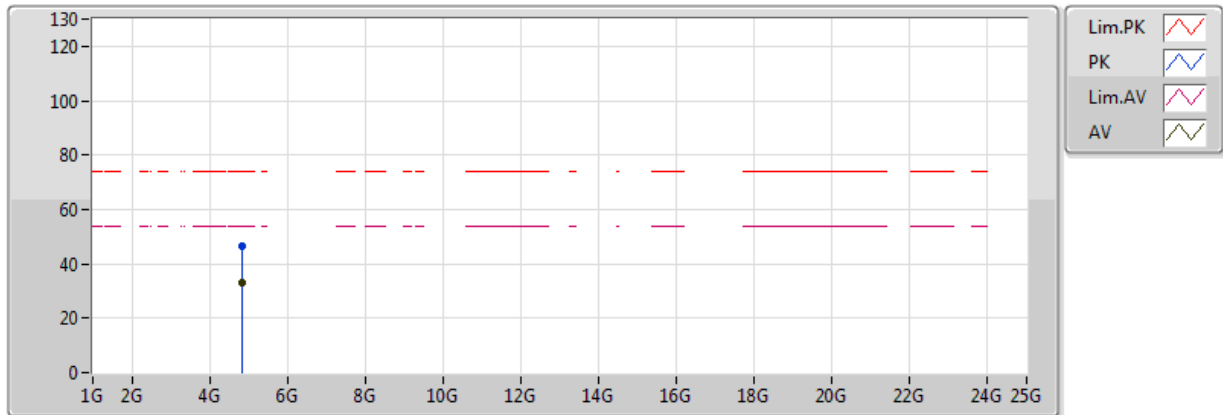


20170327
EUT_Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.83858G	33.17	54.00	-20.83	3.74	3	V	168	1.17	-
PK	4.8324G	47.27	74.00	-26.73	3.72	3	V	168	1.17	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

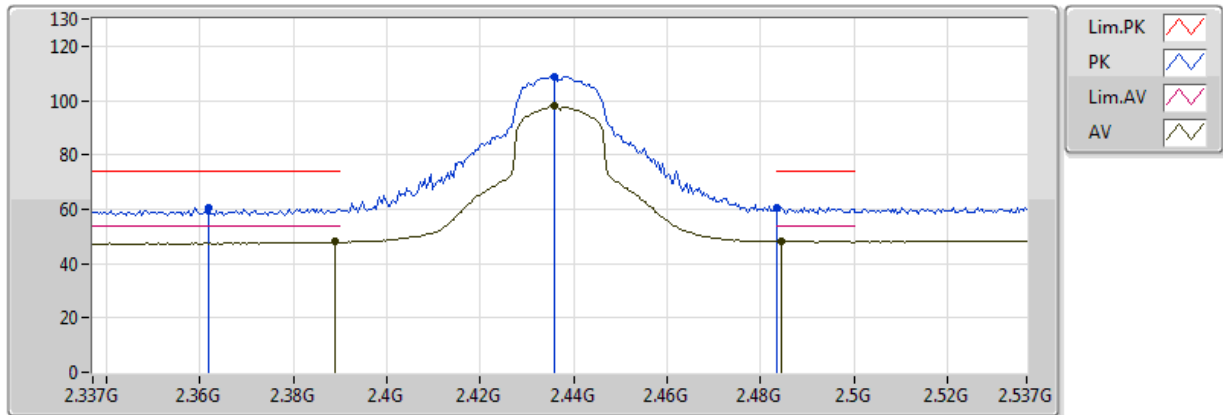


20170327
EUT_Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.83684G	33.19	54.00	-20.81	3.73	3	H	17	2.48	-
PK	4.82898G	46.61	74.00	-27.39	3.71	3	H	17	2.48	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

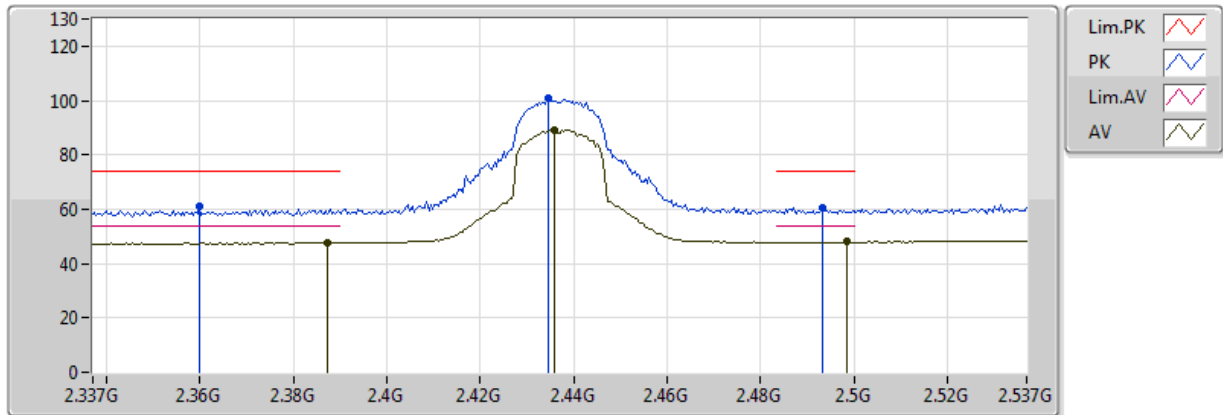


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389G	47.99	54.00	-6.01	32.67	3	V	313	2.20	-
AV	2.4358G	97.87	Inf	-Inf	32.72	3	V	313	2.20	-
AV	2.4846G	48.21	54.00	-5.79	32.78	3	V	313	2.20	-
PK	2.3618G	60.58	74.00	-13.42	32.66	3	V	313	2.20	-
PK	2.4358G	108.71	Inf	-Inf	32.72	3	V	313	2.20	-
PK	2.483502G	60.67	74.00	-13.33	32.78	3	V	313	2.20	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

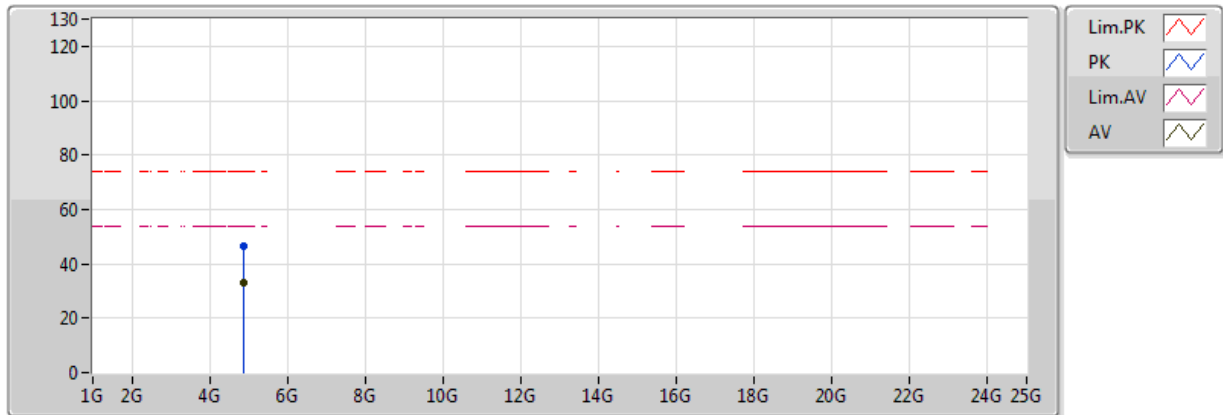


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3874G	47.60	54.00	-6.40	32.67	3	H	323	2.33	-
AV	2.4358G	89.12	Inf	-Inf	32.72	3	H	323	2.33	-
AV	2.4986G	47.97	54.00	-6.03	32.80	3	H	323	2.33	-
PK	2.3598G	60.96	74.00	-13.04	32.66	3	H	323	2.33	-
PK	2.4346G	100.62	Inf	-Inf	32.71	3	H	323	2.33	-
PK	2.4934G	60.68	74.00	-13.32	32.79	3	H	323	2.33	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

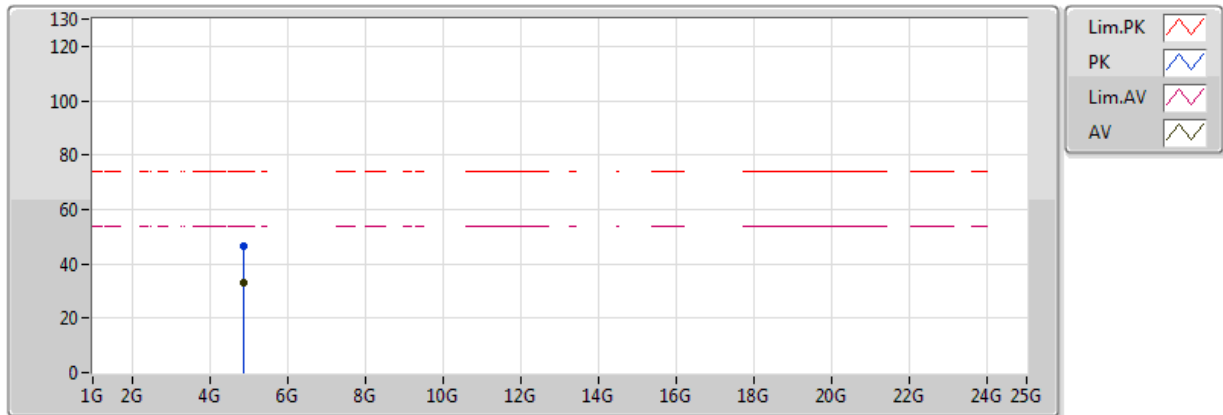


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.859G	32.93	54.00	-21.07	3.80	3	V	108	1.87	-
PK	4.859G	46.36	74.00	-27.64	3.80	3	V	108	1.87	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

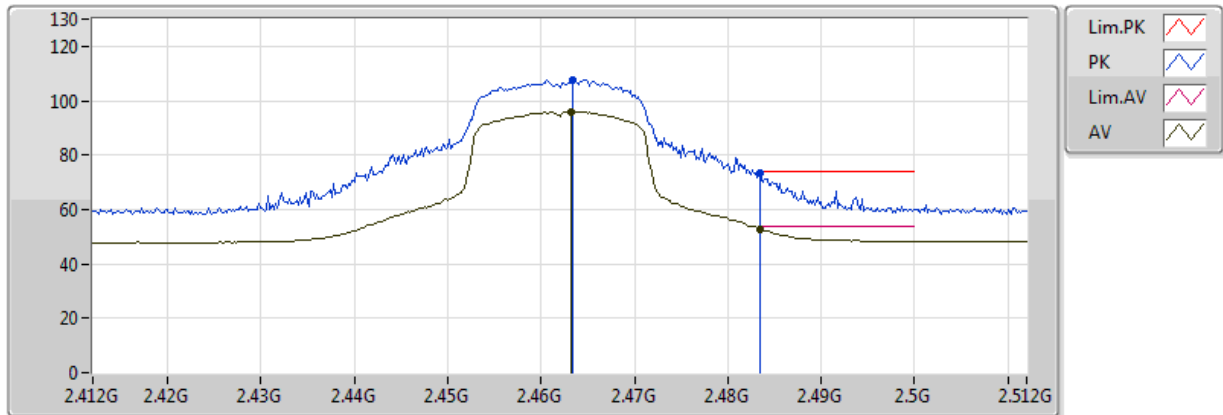


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8599G	32.83	54.00	-21.17	3.80	3	H	135	2.26	-
PK	4.87562G	46.70	74.00	-27.30	3.84	3	H	135	2.26	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

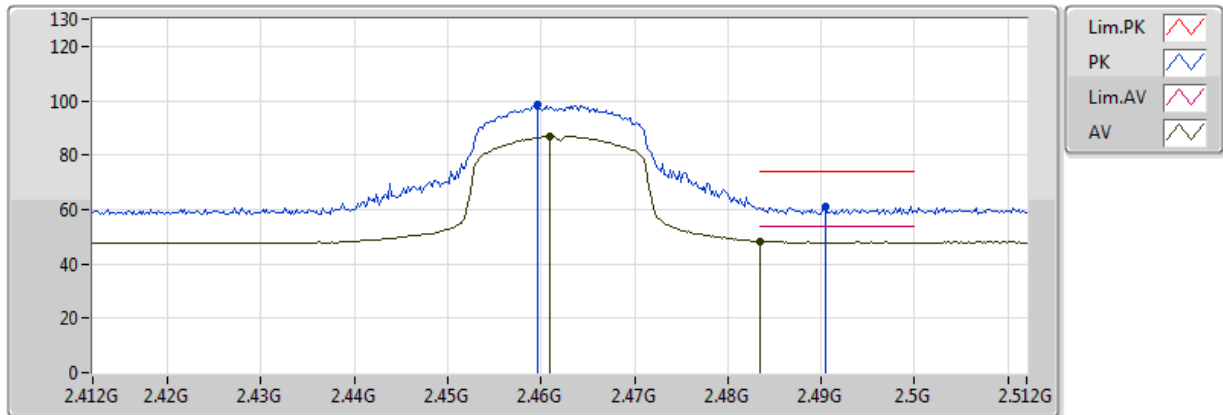


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4632G	96.01	Inf	-Inf	32.75	3	V	307	2.19	-
AV	2.483502G	52.84	54.00	-1.16	32.78	3	V	307	2.19	-
PK	2.4634G	107.67	Inf	-Inf	32.75	3	V	307	2.19	-
PK	2.483502G	73.30	74.00	-0.70	32.78	3	V	307	2.19	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

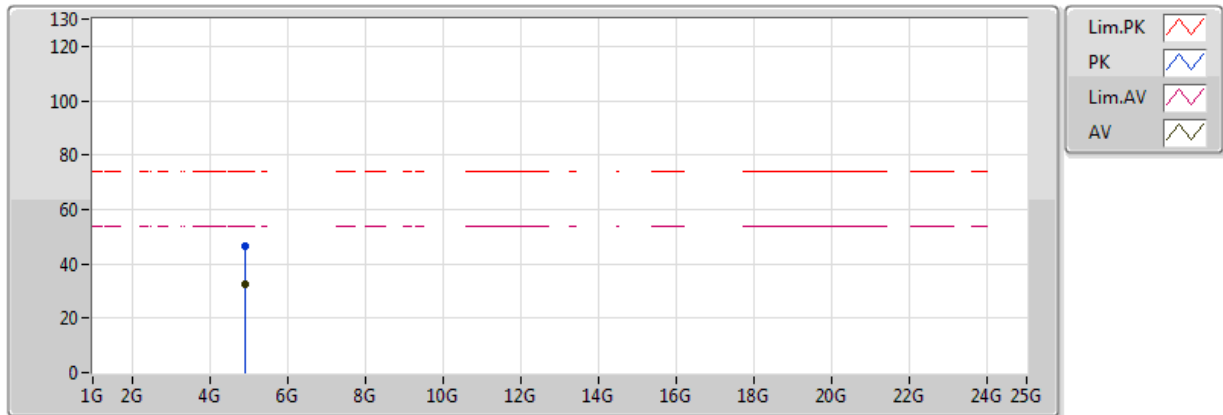


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.461G	86.81	Inf	-Inf	32.75	3	H	60	1.44	-
AV	2.483502G	48.34	54.00	-5.66	32.78	3	H	60	1.44	-
PK	2.4596G	98.66	Inf	-Inf	32.75	3	H	60	1.44	-
PK	2.4904G	61.01	74.00	-12.99	32.79	3	H	60	1.44	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

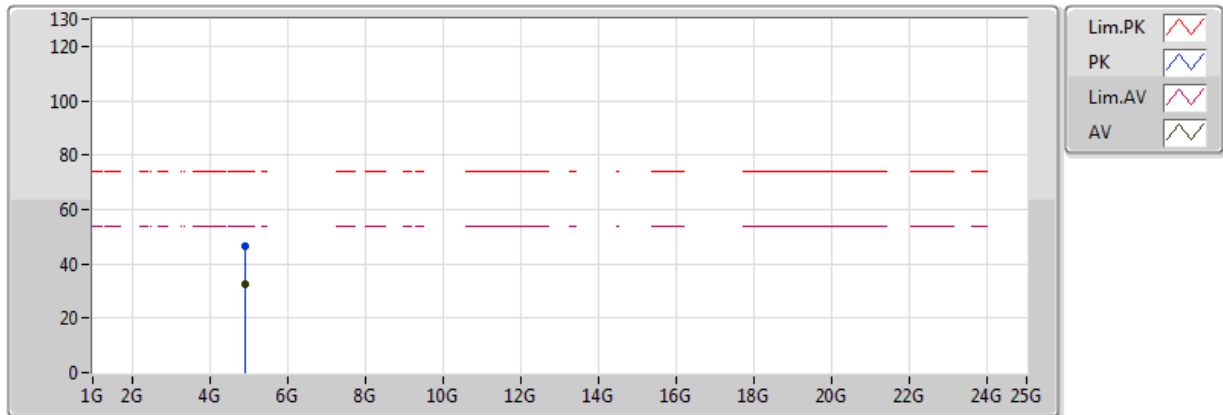


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.91584G	32.70	54.00	-21.30	3.96	3	V	185	1.36	-
PK	4.915G	46.66	74.00	-27.34	3.95	3	V	185	1.36	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

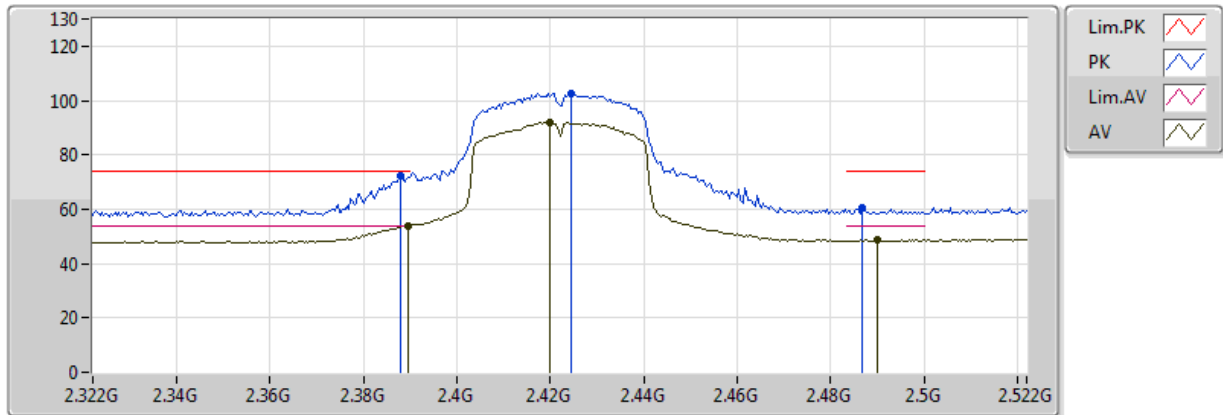


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.91632G	32.76	54.00	-21.24	3.96	3	H	77	1.22	-
PK	4.9243G	46.33	74.00	-27.67	3.98	3	H	77	1.22	-

802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

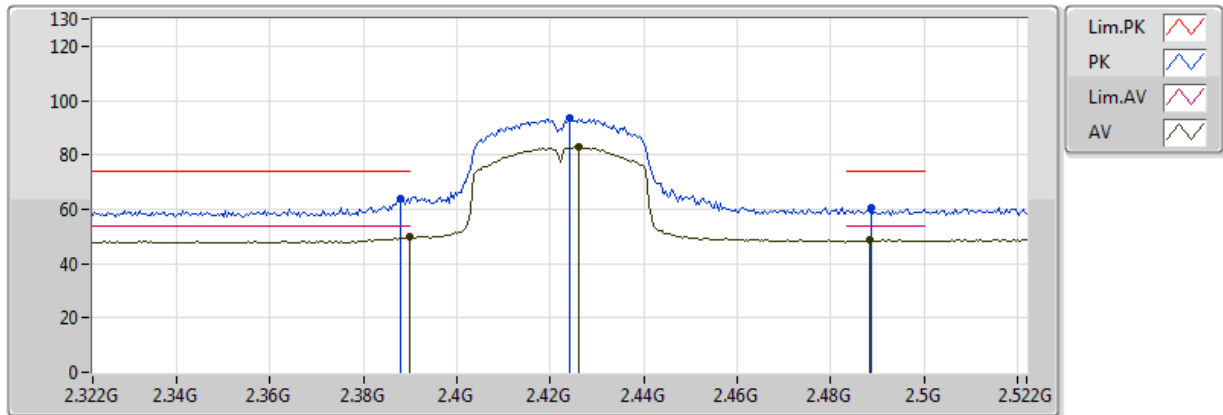


20170327
EUT Y_1TX
Setting 12000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3896G	53.96	54.00	-0.04	32.67	3	V	313	2.26	-
AV	2.42G	92.13	Inf	-Inf	32.70	3	V	313	2.26	-
AV	2.49G	48.86	54.00	-5.14	32.79	3	V	313	2.26	-
PK	2.388G	72.37	74.00	-1.63	32.67	3	V	313	2.26	-
PK	2.4244G	102.82	Inf	-Inf	32.70	3	V	313	2.26	-
PK	2.4868G	60.26	74.00	-13.74	32.78	3	V	313	2.26	-

802.11n HT40_Nss1,(MCS0)_1TX

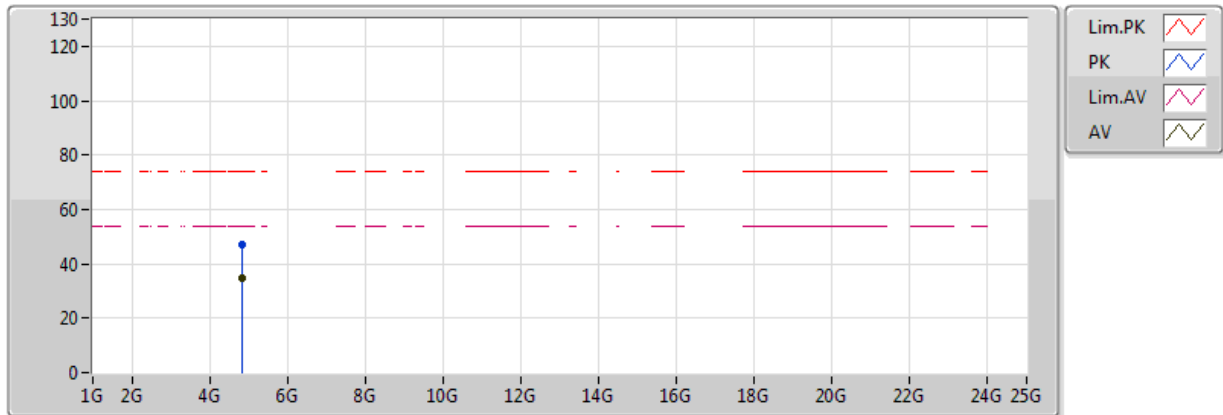
2422MHz_TX



Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	50.01	54.00	-3.99	32.67	3	H	320	2.50	-
AV	2.426G	83.09	Inf	-Inf	32.70	3	H	320	2.50	-
AV	2.4884G	48.68	54.00	-5.32	32.78	3	H	320	2.50	-
PK	2.388G	64.06	74.00	-9.94	32.67	3	H	320	2.50	-
PK	2.424G	93.67	Inf	-Inf	32.70	3	H	320	2.50	-
PK	2.4888G	60.72	74.00	-13.28	32.79	3	H	320	2.50	-

802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

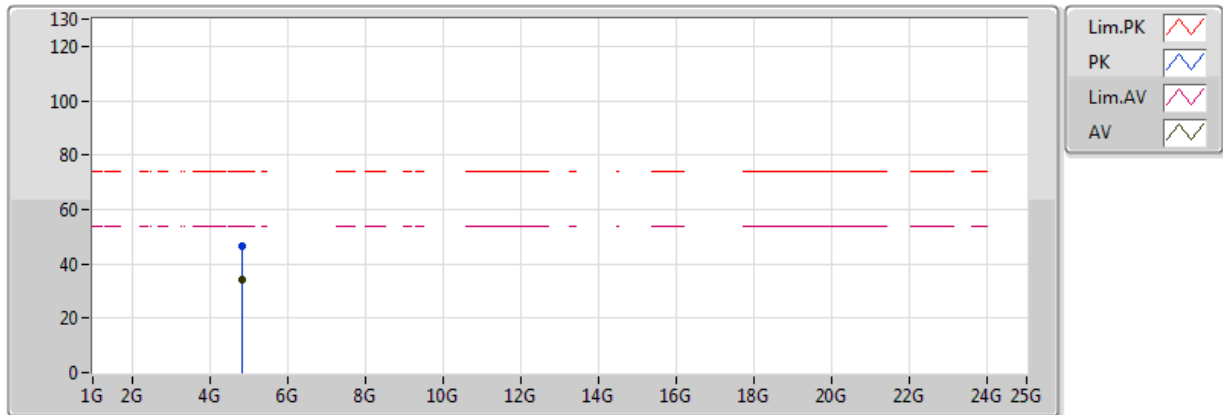


20170327
EUT Y_1TX
Setting 12000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8386G	34.68	54.00	-19.32	3.74	3	V	275	1.08	-
PK	4.83392G	46.90	74.00	-27.10	3.72	3	V	275	1.08	-

802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

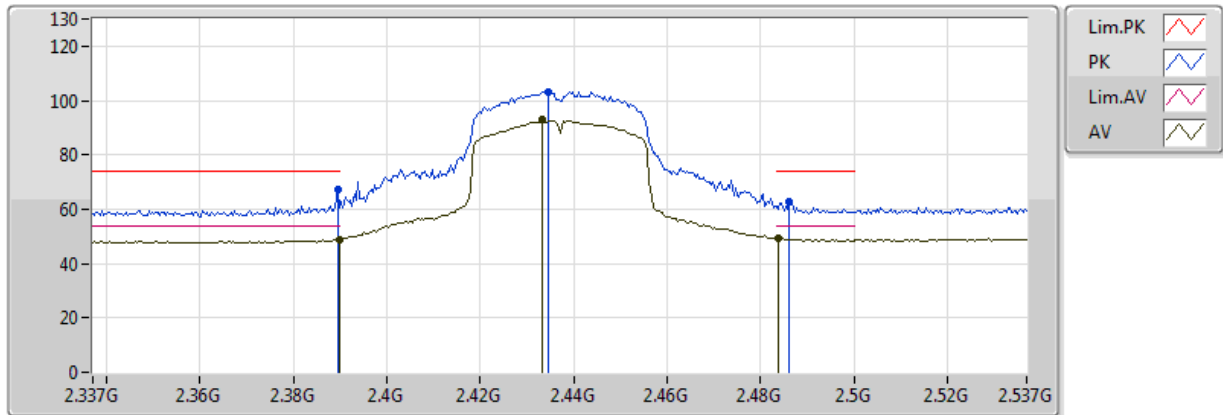


20170327
EUT Y_1TX
Setting 12000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.83866G	34.46	54.00	-19.54	3.74	3	H	343	1.62	-
PK	4.83296G	46.51	74.00	-27.49	3.72	3	H	343	1.62	-

802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

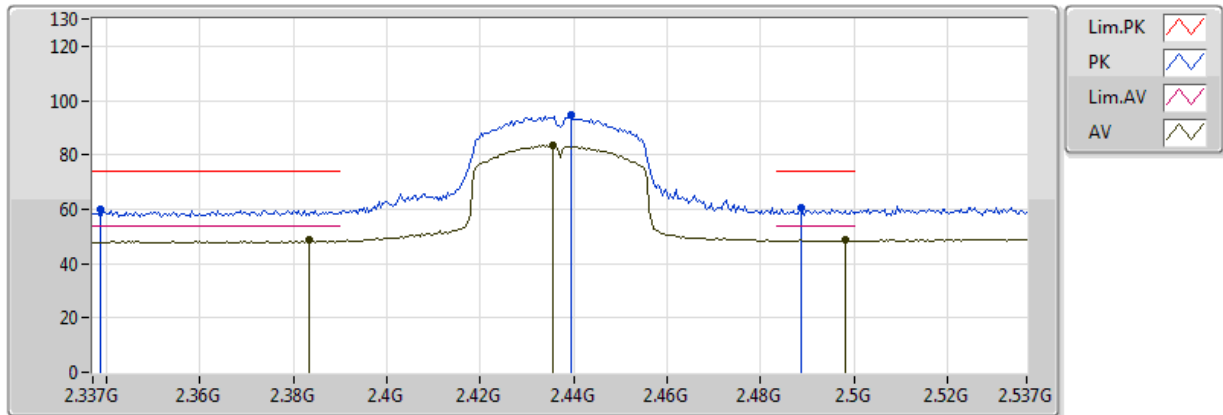


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	48.88	54.00	-5.12	32.67	3	V	307	2.22	-
AV	2.4334G	92.84	Inf	-Inf	32.71	3	V	307	2.22	-
AV	2.4838G	49.49	54.00	-4.51	32.78	3	V	307	2.22	-
PK	2.3894G	67.01	74.00	-6.99	32.67	3	V	307	2.22	-
PK	2.4346G	103.33	Inf	-Inf	32.71	3	V	307	2.22	-
PK	2.4862G	62.54	74.00	-11.46	32.78	3	V	307	2.22	-

802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

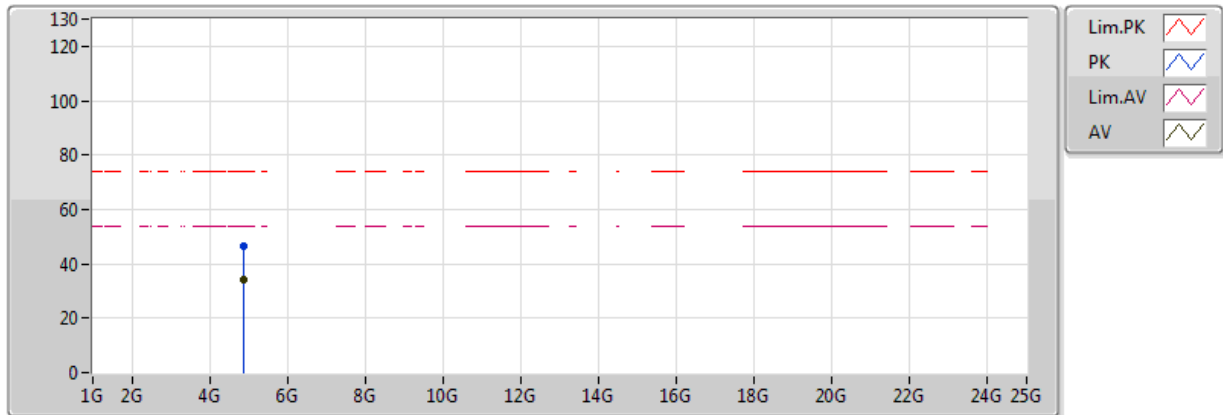


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3834G	48.57	54.00	-5.43	32.67	3	H	323	2.37	-
AV	2.4354G	83.66	Inf	-Inf	32.72	3	H	323	2.37	-
AV	2.4982G	48.83	54.00	-5.17	32.80	3	H	323	2.37	-
PK	2.3386G	59.79	74.00	-14.21	32.65	3	H	323	2.37	-
PK	2.4394G	94.48	Inf	-Inf	32.72	3	H	323	2.37	-
PK	2.4886G	60.34	74.00	-13.66	32.79	3	H	323	2.37	-

802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

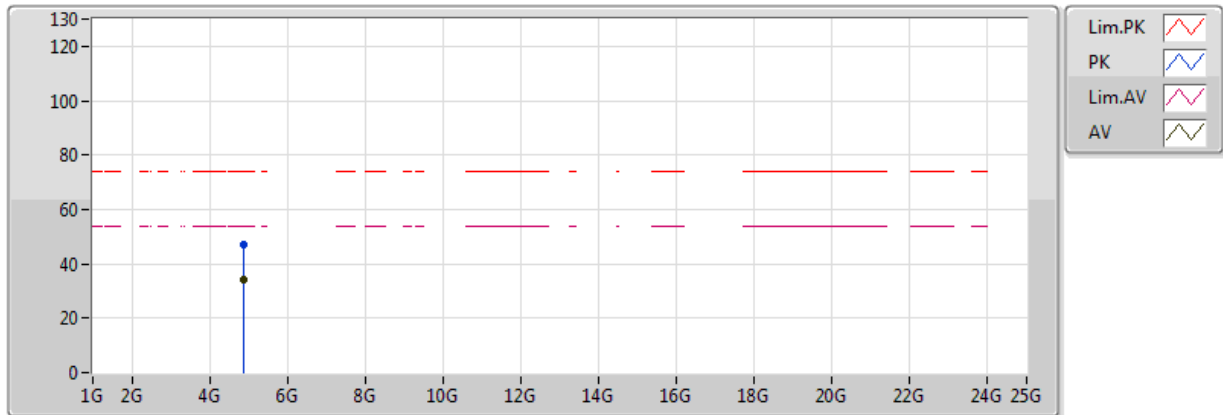


20170327
EUT_Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.86782G	34.09	54.00	-19.91	3.82	3	V	282	1.11	-
PK	4.87976G	46.29	74.00	-27.71	3.85	3	V	282	1.11	-

802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

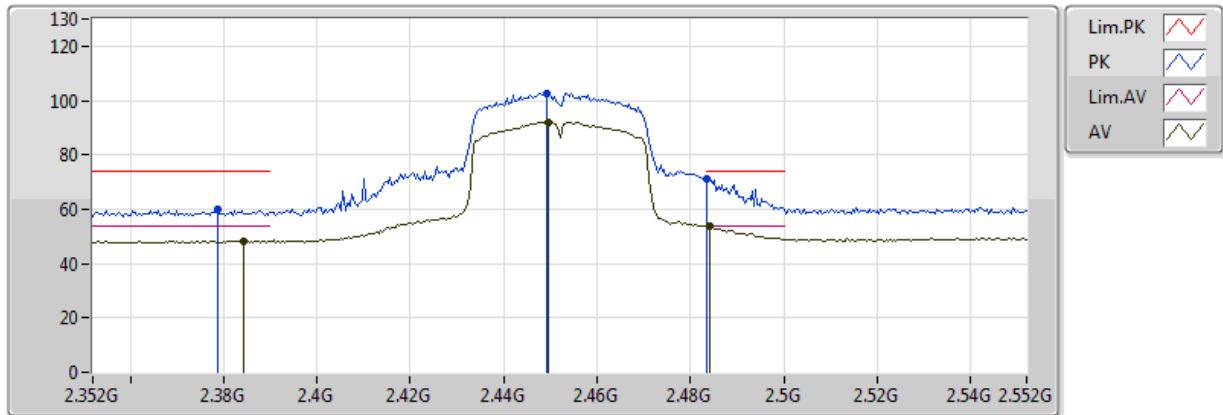


20170327
EUT_Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.86056G	34.24	54.00	-19.76	3.80	3	H	26	1.66	-
PK	4.87022G	46.84	74.00	-27.16	3.83	3	H	26	1.66	-

802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX

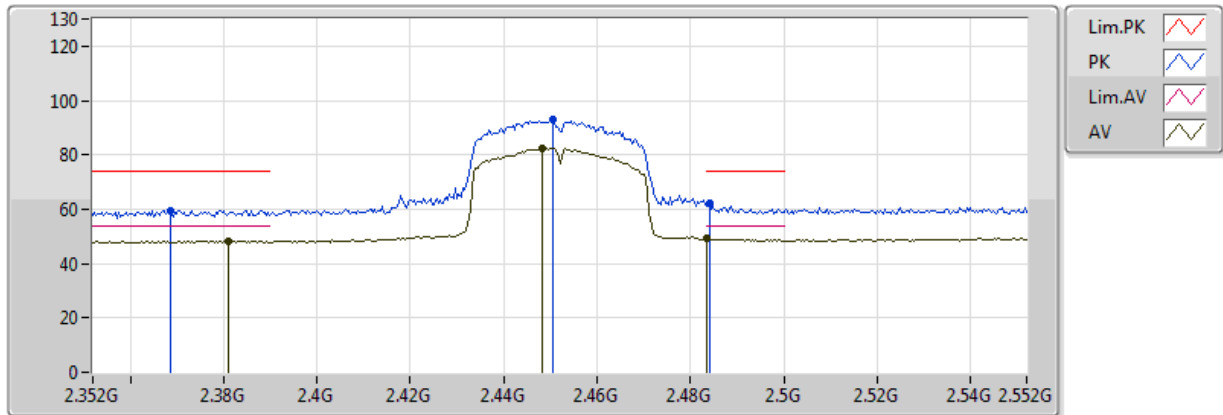


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3844G	48.46	54.00	-5.54	32.67	3	V	312	2.19	-
AV	2.4496G	91.95	Inf	-Inf	32.73	3	V	312	2.19	-
AV	2.484G	53.84	54.00	-0.16	32.78	3	V	312	2.19	-
PK	2.3788G	59.78	74.00	-14.22	32.66	3	V	312	2.19	-
PK	2.4492G	102.80	Inf	-Inf	32.73	3	V	312	2.19	-
PK	2.4836G	70.94	74.00	-3.06	32.78	3	V	312	2.19	-

802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX

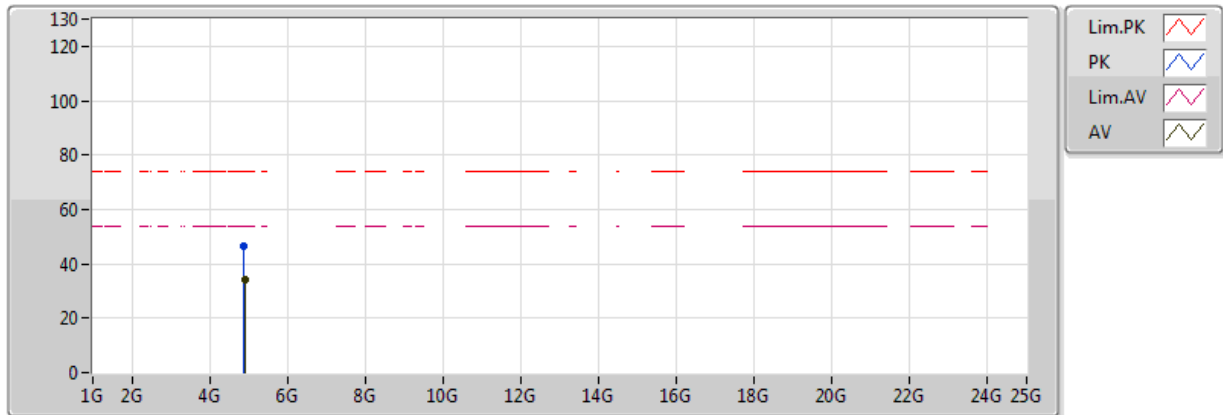


20170327
EUT Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3812G	48.34	54.00	-5.66	32.66	3	H	63	1.95	-
AV	2.4484G	82.45	Inf	-Inf	32.73	3	H	63	1.95	-
AV	2.4836G	49.07	54.00	-4.93	32.78	3	H	63	1.95	-
PK	2.3688G	59.65	74.00	-14.35	32.66	3	H	63	1.95	-
PK	2.4504G	92.94	Inf	-Inf	32.74	3	H	63	1.95	-
PK	2.484G	62.20	74.00	-11.80	32.78	3	H	63	1.95	-

802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX

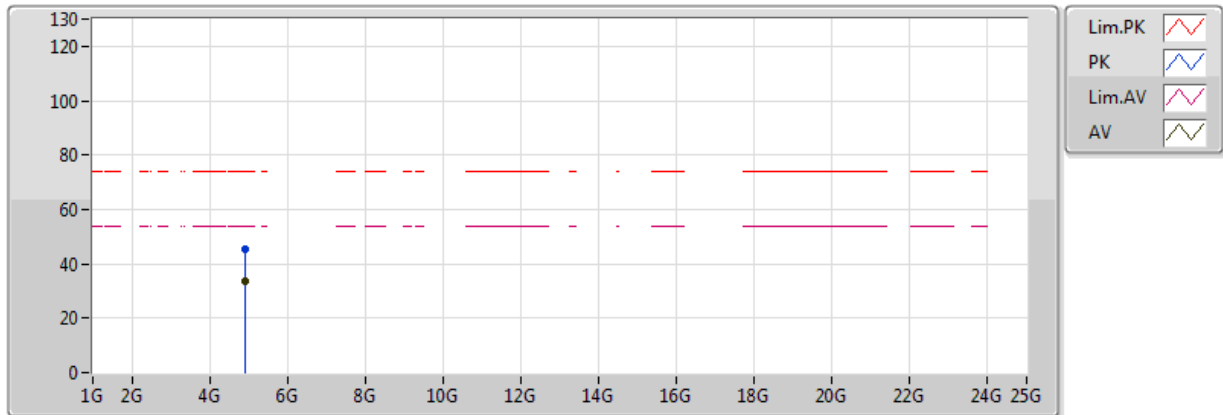


20170327
EUT_Y_1TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.91228G	33.91	54.00	-20.09	3.95	3	V	257	1.80	-
PK	4.89332G	46.58	74.00	-27.42	3.89	3	V	257	1.80	-

802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX



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EUT_Y_1TX
Setting 20000
04-J-5
FSU

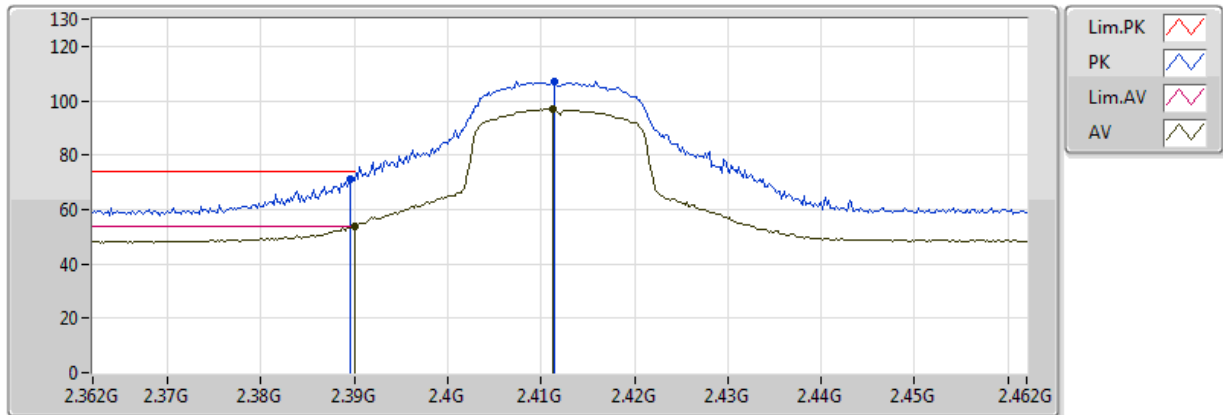
Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9076G	33.88	54.00	-20.12	3.93	3	H	162	1.51	-
PK	4.91168G	45.62	74.00	-28.38	3.94	3	H	162	1.51	-

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS8)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	2.4838G	53.89	54.00	-0.11	32.78	3	V	293	1.08	-

802.11n HT20_Nss1,(MCS8)_2TX

2412MHz_TX

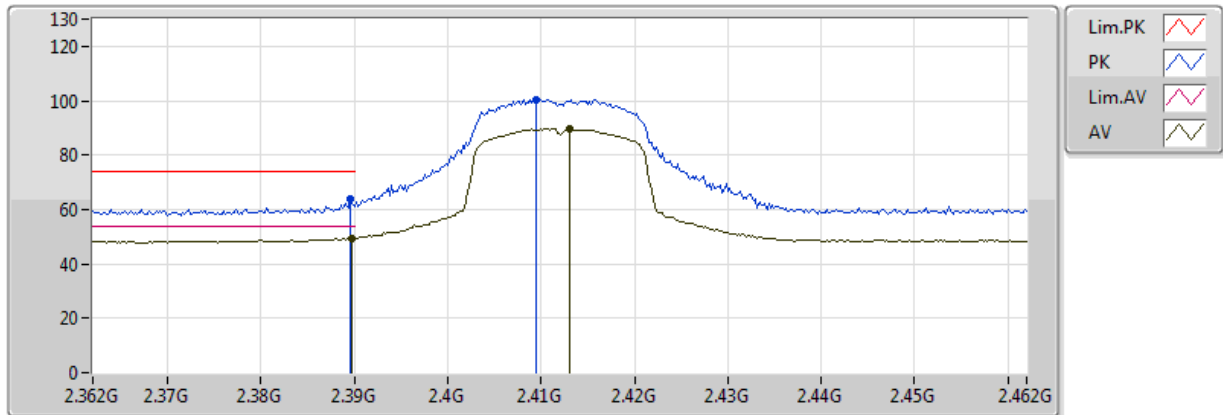


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EUT Y 2TX
Setting 16500
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	53.84	54.00	-0.16	32.67	3	V	335	1.46	-
AV	2.4112G	96.81	Inf	-Inf	32.68	3	V	335	1.46	-
PK	2.3896G	71.20	74.00	-2.80	32.67	3	V	335	1.46	-
PK	2.4114G	107.17	Inf	-Inf	32.68	3	V	335	1.46	-

802.11n HT20_Nss1,(MCS8)_2TX

2412MHz_TX

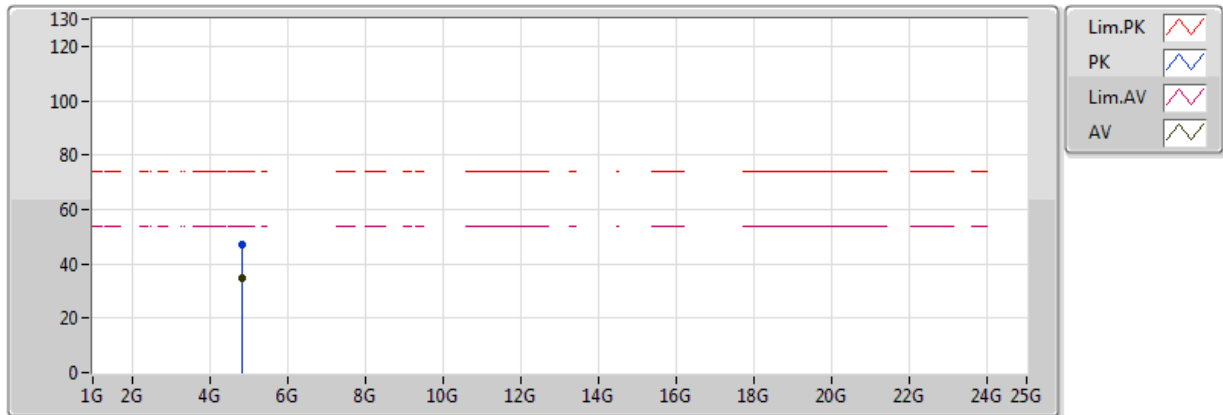


20170327
EUT Y 2TX
Setting 16500
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3898G	49.27	54.00	-4.73	32.67	3	H	320	2.08	-
AV	2.413G	89.68	Inf	-Inf	32.69	3	H	320	2.08	-
PK	2.3896G	64.12	74.00	-9.88	32.67	3	H	320	2.08	-
PK	2.4094G	100.48	Inf	-Inf	32.68	3	H	320	2.08	-

802.11n HT20_Nss1,(MCS8)_2TX

2412MHz_TX

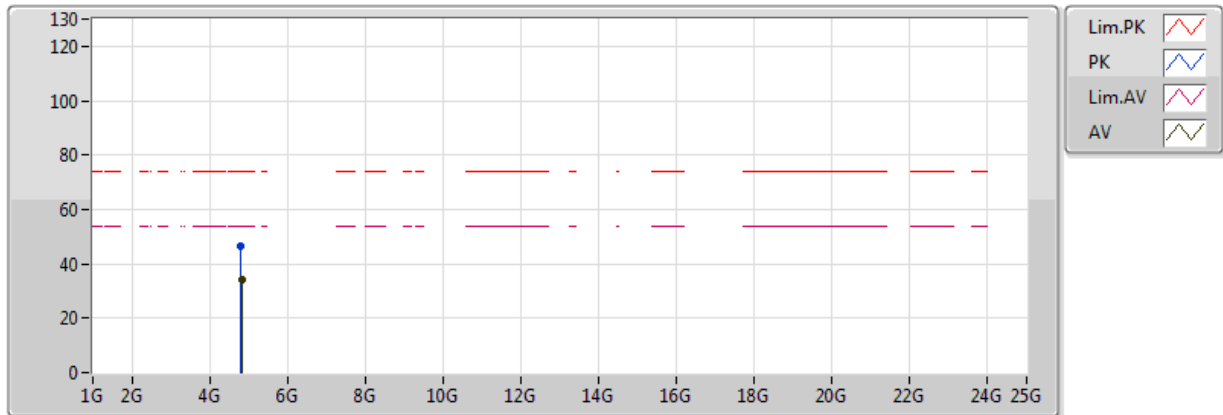


20170327
EUT Y 2TX
Setting 16500
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82142G	34.54	54.00	-19.46	3.69	3	V	232	1.05	-
PK	4.83894G	47.15	74.00	-26.85	3.74	3	V	232	1.05	-

802.11n HT20_Nss1,(MCS8)_2TX

2412MHz_TX

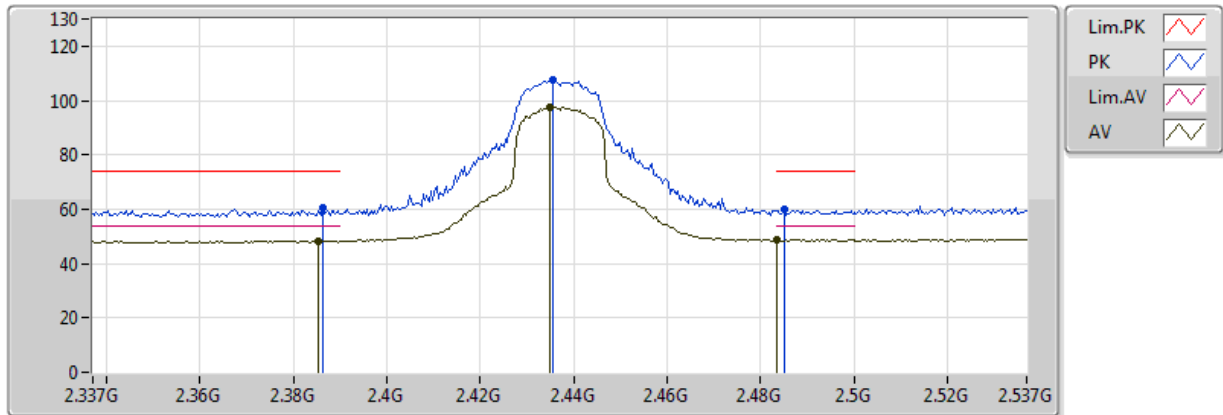


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EUT Y 2TX
Setting 16500
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.83696G	34.14	54.00	-19.86	3.73	3	H	109	1.86	-
PK	4.81038G	46.72	74.00	-27.28	3.66	3	H	109	1.86	-

802.11n HT20_Nss1,(MCS8)_2TX

2437MHz_TX

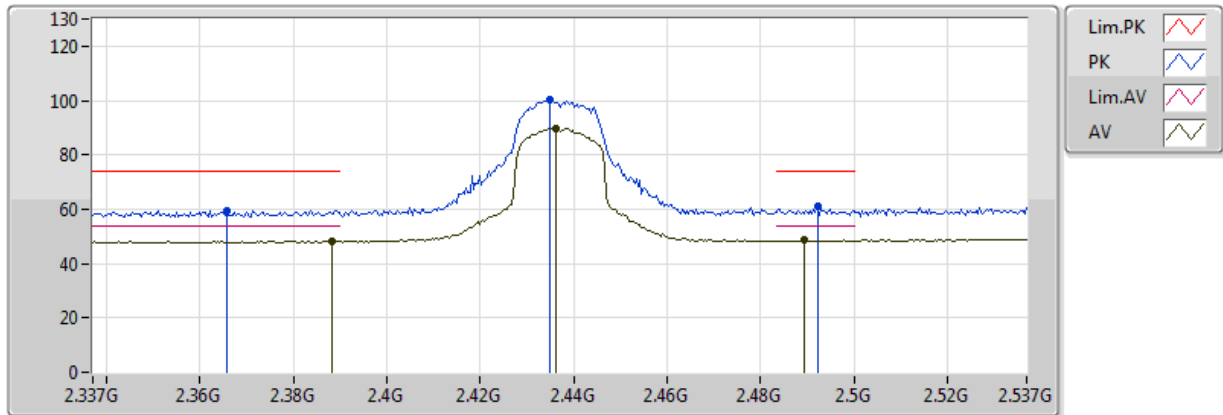


20170327
EUT Y 2TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3854G	48.40	54.00	-5.60	32.67	3	V	354	1.79	-
AV	2.435G	97.75	Inf	-Inf	32.72	3	V	354	1.79	-
AV	2.483502G	48.69	54.00	-5.31	32.78	3	V	354	1.79	-
PK	2.3862G	60.26	74.00	-13.74	32.67	3	V	354	1.79	-
PK	2.4354G	107.46	Inf	-Inf	32.72	3	V	354	1.79	-
PK	2.485G	59.79	74.00	-14.21	32.78	3	V	354	1.79	-

802.11n HT20_Nss1,(MCS8)_2TX

2437MHz_TX

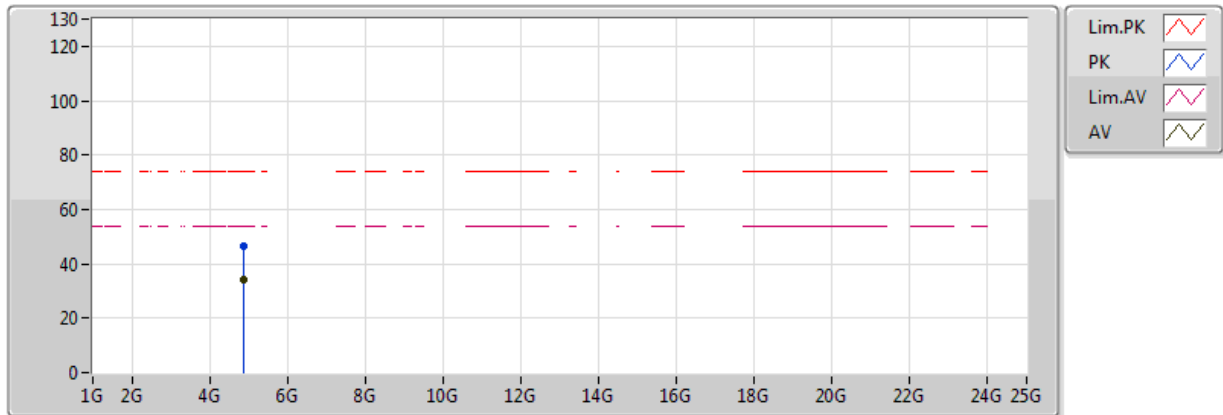


20170327
EUT Y 2TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3882G	48.34	54.00	-5.66	32.67	3	H	215	1.11	-
AV	2.4362G	89.76	Inf	-Inf	32.72	3	H	215	1.11	-
AV	2.4894G	48.68	54.00	-5.32	32.79	3	H	215	1.11	-
PK	2.3658G	59.62	74.00	-14.38	32.66	3	H	215	1.11	-
PK	2.435G	100.19	Inf	-Inf	32.72	3	H	215	1.11	-
PK	2.4922G	61.17	74.00	-12.83	32.79	3	H	215	1.11	-

802.11n HT20_Nss1,(MCS8)_2TX

2437MHz_TX

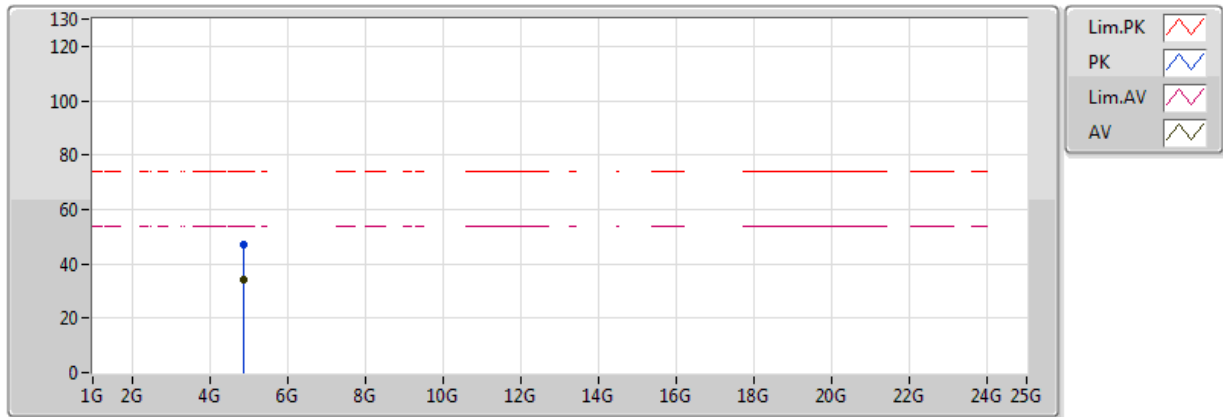


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EUT Y 2TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87058G	34.46	54.00	-19.54	3.83	3	V	295	2.45	-
PK	4.8836G	46.66	74.00	-27.34	3.86	3	V	295	2.45	-

802.11n HT20_Nss1,(MCS8)_2TX

2437MHz_TX

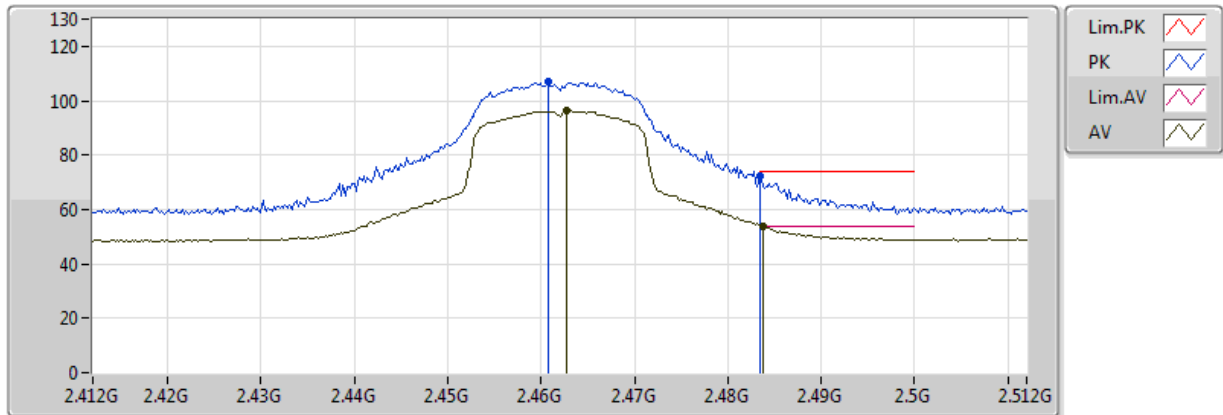


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EUT Y 2TX
Setting 20000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8704G	34.06	54.00	-19.94	3.83	3	H	311	1.47	-
PK	4.87778G	47.13	74.00	-26.87	3.85	3	H	311	1.47	-

802.11n HT20_Nss1,(MCS8)_2TX

2462MHz_TX

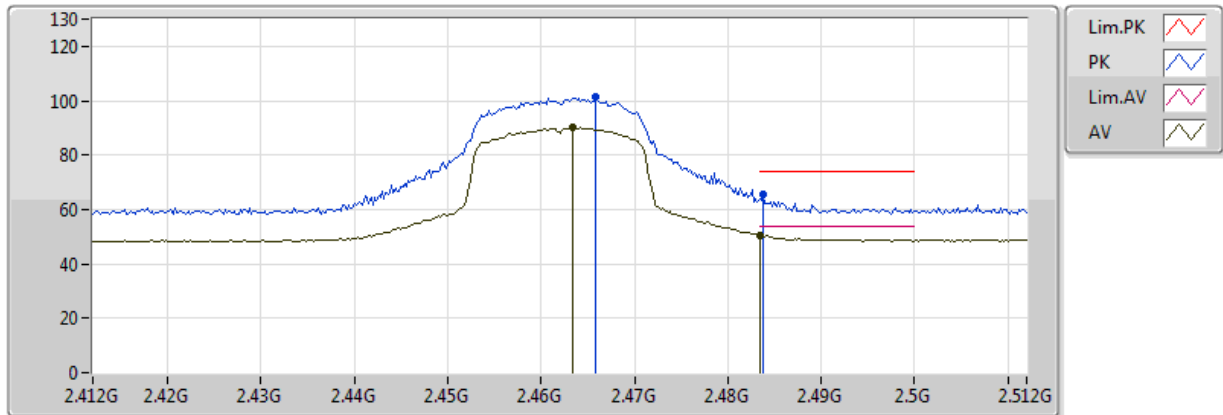


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EUT Y 2TX
Setting 17000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4628G	96.34	Inf	-Inf	32.75	3	V	293	1.08	-
AV	2.4838G	53.89	54.00	-0.11	32.78	3	V	293	1.08	-
PK	2.4608G	107.16	Inf	-Inf	32.75	3	V	293	1.08	-
PK	2.483502G	72.41	74.00	-1.59	32.78	3	V	293	1.08	-

802.11n HT20_Nss1,(MCS8)_2TX

2462MHz_TX

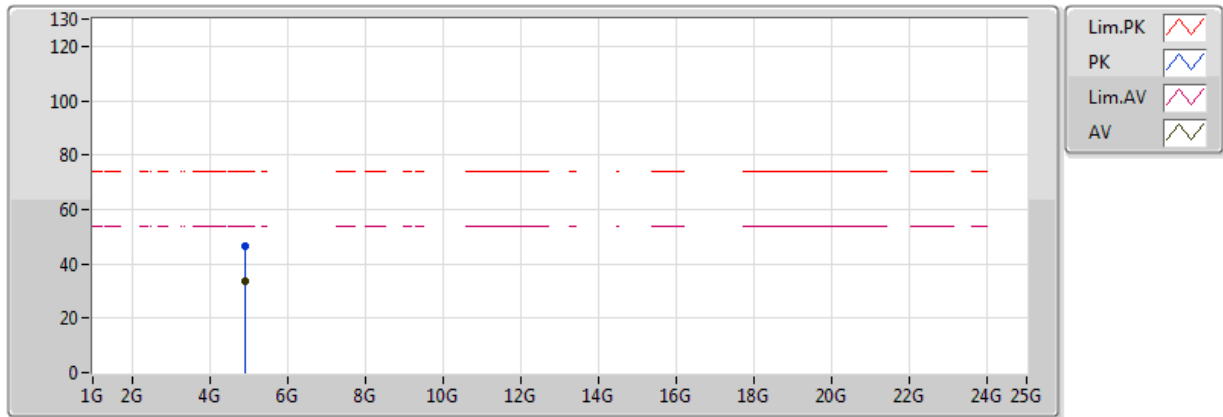


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EUT Y 2TX
Setting 17000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4634G	90.16	Inf	-Inf	32.75	3	H	32	1.04	-
AV	2.483502G	50.64	54.00	-3.36	32.78	3	H	32	1.04	-
PK	2.4658G	101.49	Inf	-Inf	32.76	3	H	32	1.04	-
PK	2.4838G	65.34	74.00	-8.66	32.78	3	H	32	1.04	-

802.11n HT20_Nss1,(MCS8)_2TX

2462MHz_TX

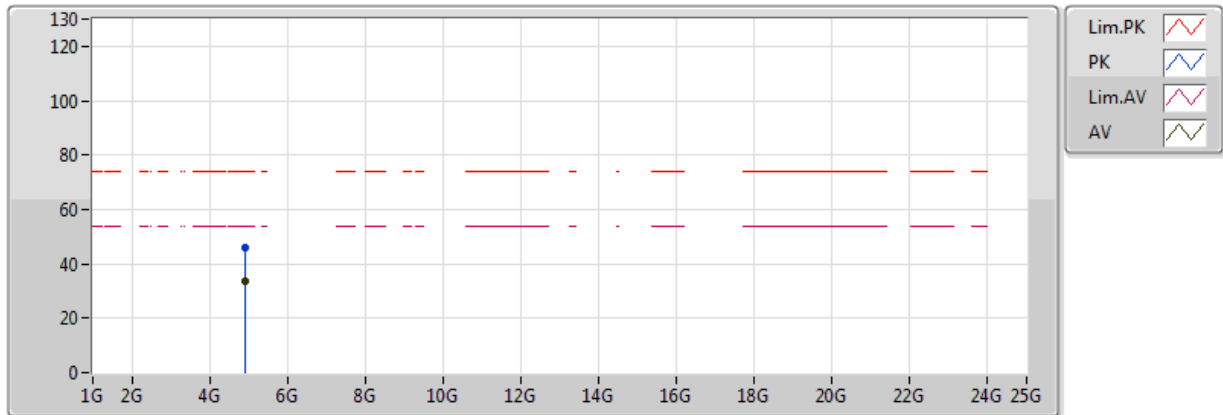


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EUT Y 2TX
Setting 17000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92928G	33.66	54.00	-20.34	3.99	3	V	90	1.95	-
PK	4.91956G	46.71	74.00	-27.29	3.97	3	V	90	1.95	-

802.11n HT20_Nss1,(MCS8)_2TX

2462MHz_TX



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EUT Y 2TX
Setting 17000
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.91572G	33.75	54.00	-20.25	3.96	3	H	359	1.81	-
PK	4.93144G	45.88	74.00	-28.12	4.00	3	H	359	1.81	-