

# FCC Test Report

**Equipment** : 11bgn USB module,2T2R  
**Brand Name** : CC&C  
**Model No.** : WM-8192EU  
**FCC ID** : PANWM8192EU  
**Standard** : 47 CFR FCC Part 15.247  
**Operating Band** : 2400 MHz – 2483.5 MHz  
**Function** : ☒ Point-to-multipoint; ☐ Point-to-point  
**Applicant** : **CC&C Technologies, Inc.**  
8F, No.150, Jian Yi Rd, Zhonghe District,  
New Taipei City, 235, Taiwan  
**Manufacturer** : **Kunshan CC&C Technologies,Co.,LTD.**  
No.9 Building, 3rd Main Street,  
Kunshan Free Trade Zone,  
Jiangsu Province,P.R. China

This report was evaluated for permissive change. The product sample received on Oct. 31, 2017 and completely tested on Jan. 05, 2018. 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.



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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                             | 15.247(d)        | Emissions in Non-restricted Frequency Bands | Non-Restricted Bands:<br>> 30 dBc | Complied |
| 3.2                             | 15.247(d)        | Emissions in Restricted Frequency Bands     | Restricted Bands:<br>FCC 15.209   | Complied |



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FCC ID: PANWM8192EU

# 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         | 2TX  |
| 2.4-2.4835GHz | 802.11n HT40 | 40         | 2TX  |

**Note:**

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

| Ant.                                                                                                                        | Port | Brand       | Model Name           | Antenna Type | Connector | Gain (dBi) |
|-----------------------------------------------------------------------------------------------------------------------------|------|-------------|----------------------|--------------|-----------|------------|
| A                                                                                                                           | 1    | -           | ALO140-052030        | PIFA         | I-PEX     | 3          |
|                                                                                                                             | 2    |             |                      |              |           | 3          |
| B                                                                                                                           | 1    | -           | ALC140-051021-A      | Print        | I-PEX     | 3          |
|                                                                                                                             | 2    |             |                      |              |           | 3          |
| C                                                                                                                           | 1    | -           | ALC140-052030-A      | PIFA         | I-PEX     | 3          |
|                                                                                                                             | 2    |             |                      |              |           | 3          |
| D                                                                                                                           | 1    | -           | ALC160-051020-000000 | Print        | I-PEX     | 3.33       |
|                                                                                                                             | 2    |             | ALC160-051021-000000 |              |           | 3.76       |
| E                                                                                                                           | 1    | -           | GY196HT625-001       | Print        | I-PEX     | 1.73       |
|                                                                                                                             | 2    |             | GY196HT625-002       |              |           | 1.84       |
| F                                                                                                                           | 1    | -           | ALO160-052030-A      | PIFA         | I-PEX     | 3.54       |
|                                                                                                                             | 2    |             | ALO160-052030-A      |              |           | 3.41       |
| G<br>(Add)                                                                                                                  | 1    | Master Wave | 660023500G           | Dipole       | I-PEX     | 2.38       |
|                                                                                                                             | 2    |             |                      |              |           | 2.38       |
| H<br>(Add)                                                                                                                  | 1    | WNC         | 81XCBB15.G01         | PIFA         | I-PEX     | 1.28       |
|                                                                                                                             | 2    |             |                      |              |           | 1.28       |
| I<br>(Add)                                                                                                                  | 1    | WNC         | 81XCBB15.G02         | PIFA         | I-PEX     | 1.18       |
|                                                                                                                             | 2    |             |                      |              |           | 1.18       |
| Note: 1: 802.11b/g only includes 1TX and Port 2 for emission.                                                               |      |             |                      |              |           |            |
| Note: 2: 802.11n used two antennas are for signal transmitting and receiving.(2T2R Spatial Multiplexing MIMO configuration) |      |             |                      |              |           |            |

**1.1.3 EUT Information**

| Operational Condition               |                                                                               |                                                         |     |
|-------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------|-----|
| <b>EUT Power Type</b>               | From System                                                                   |                                                         |     |
| <b>Chip</b>                         | RTL8192EU                                                                     |                                                         |     |
| <b>Beamforming Function</b>         | <input type="checkbox"/> With beamforming                                     | <input checked="" type="checkbox"/> Without beamforming |     |
| Type of EUT                         |                                                                               |                                                         |     |
| <input checked="" type="checkbox"/> | Stand-alone                                                                   |                                                         |     |
| <input type="checkbox"/>            | Combined (EUT where the radio part is fully integrated within another device) |                                                         |     |
|                                     | Combined Equipment - Brand Name / Model No.:                                  |                                                         | ... |
| <input type="checkbox"/>            | Plug-in radio (EUT intended for a variety of host systems)                    |                                                         |     |
|                                     | Host System - Brand Name / Model No.:                                         |                                                         | ... |
| <input type="checkbox"/>            | Other:                                                                        |                                                         |     |

### 1.1.4 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR472267-01

Below is the table for the change of the product with respect to the original one.

| Modifications            | Performance Checking                                                                                               |
|--------------------------|--------------------------------------------------------------------------------------------------------------------|
| Add a new type antenna G | Emissions in Non-restricted Frequency Bands was evaluated<br>Emissions in Restricted Frequency Bands was evaluated |
| Add antenna H and I      | N/A                                                                                                                |

Note : Power setting parameter is the same as original report.

## 1.2 Testing Applied Standards

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

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

## 1.3 Testing Location Information

| Testing Location                           |        |                                                                              |                      |
|--------------------------------------------|--------|------------------------------------------------------------------------------|----------------------|
| <input checked="" type="checkbox"/>        | HWA YA | ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)    |                      |
|                                            |        | TEL : 886-3-327-3456                                                         | FAX : 886-3-327-0973 |
| Test site Designation No. TW1190 with FCC. |        |                                                                              |                      |
| <input type="checkbox"/>                   | JHUBEI | ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.) |                      |
|                                            |        | TEL : 886-3-656-9065                                                         | FAX : 886-3-656-9085 |
| Test site Designation No. TW0006 with FCC. |        |                                                                              |                      |

| Test Condition | Test Site No. | Test Engineer | Test Environment | Test Date   |
|----------------|---------------|---------------|------------------|-------------|
| RF Conducted   | TH06-HY       | Tim           | 23.7°C / 65.3%   | 05/Jan/2018 |
| Radiated       | 03CH09-HY     | Eric          | 25.8°C / 55%     | 29/Nov/2017 |

## 1.4 Measurement Uncertainty

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

| Test Items                           | Uncertainty | Remark                   |
|--------------------------------------|-------------|--------------------------|
| Radiated Emission (9kHz ~ 30MHz)     | 3.0 dB      | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 4.3 dB      | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 3.9 dB      | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 3.5 dB      | Confidence levels of 95% |
| Conducted Emission                   | 1.3 dB      | Confidence levels of 95% |

## 2 Test Configuration of EUT

### 2.1 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |                                             |
|-----------------------------------------------------|---------------------------------------------|
| <b>Tests Item</b>                                   | Emissions in Non-restricted Frequency Bands |
| <b>Test Condition</b>                               | Conducted measurement at transmit chains    |

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                                                                                                     |                                                                                     |                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | Emissions in Restricted Frequency Bands                                                                                                                                                                                                             |                                                                                     |                                                                                       |
| <b>Test Condition</b>                               | Radiated measurement<br>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. |                                                                                     |                                                                                       |
| <b>Operating Mode &lt; 1GHz</b>                     | CTX                                                                                                                                                                                                                                                 |                                                                                     |                                                                                       |
| 1                                                   | USB mode                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |
| <b>Operating Mode &gt; 1GHz</b>                     | CTX                                                                                                                                                                                                                                                 |                                                                                     |                                                                                       |
| <b>Orthogonal Planes of EUT</b>                     | <b>X Plane</b>                                                                                                                                                                                                                                      | <b>Y Plane</b>                                                                      | <b>Z Plane</b>                                                                        |
|                                                     |                                                                                                                                                                  |  |  |
| <b>Worst Planes of EUT</b>                          |                                                                                                                                                                                                                                                     |                                                                                     | V                                                                                     |

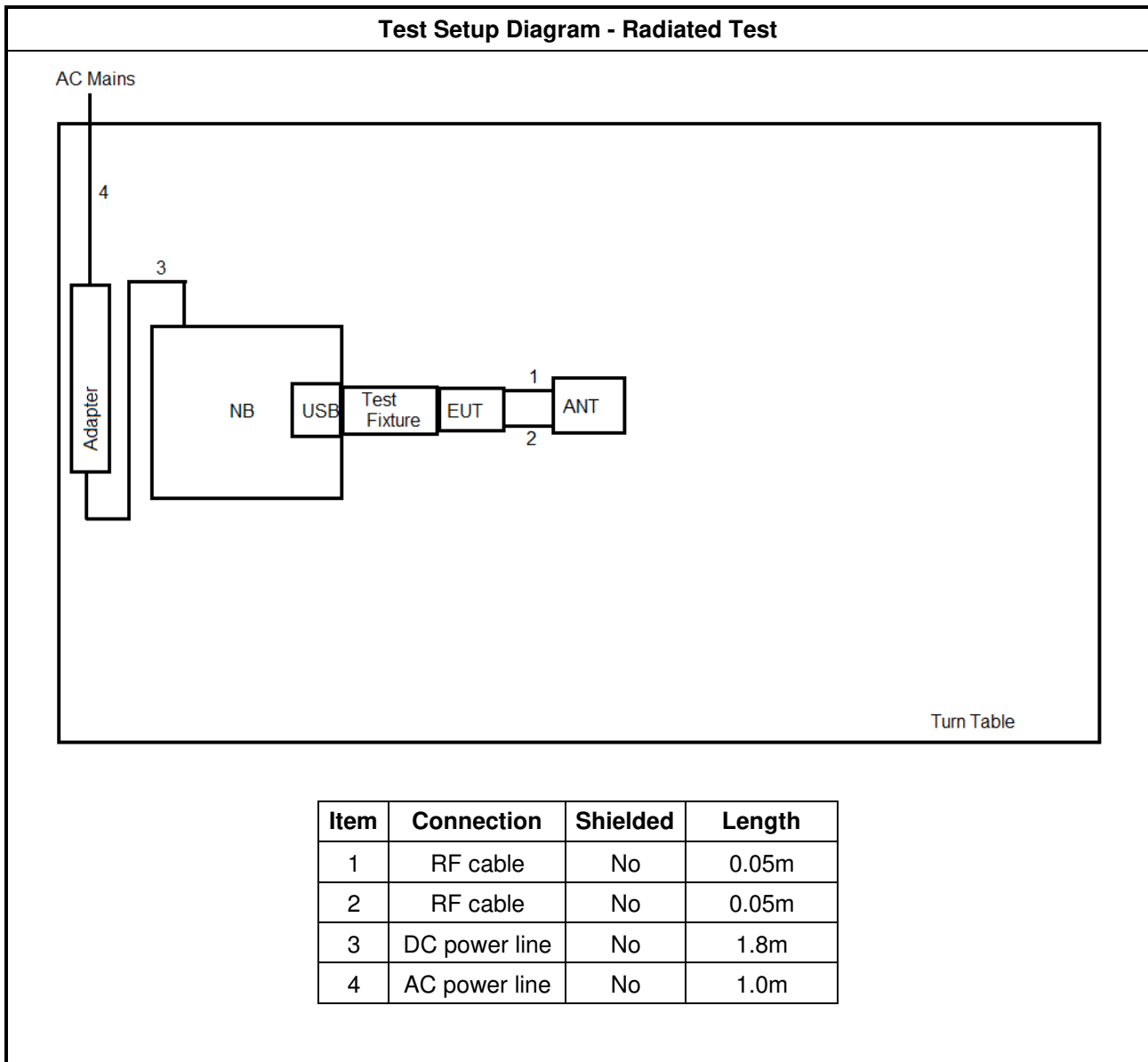
### 2.2 Support Equipment

| Support Equipment – RF Conducted |                         |            |            |        |
|----------------------------------|-------------------------|------------|------------|--------|
| No.                              | Equipment               | Brand Name | Model Name | FCC ID |
| 1                                | Notebook                | DELL       | E5410      | DOC    |
| 2                                | AC Adapter for Notebook | DELL       | HA65NM130  | DOC    |

| Support Equipment – Radiated Emission |                         |            |            |        |
|---------------------------------------|-------------------------|------------|------------|--------|
| No.                                   | Equipment               | Brand Name | Model Name | FCC ID |
| 1                                     | Notebook                | DELL       | E5430      | DOC    |
| 2                                     | AC Adapter for Notebook | DELL       | LA65NS2-01 | DOC    |
| 3                                     | Mouse                   | ACER       | MOANUOA    | DOC    |
| 4                                     | Fixture                 | -          | -          | -      |

Note: Support equipment No.4 was provided by customer.

## 2.3 Test Setup Diagram



### 3 Transmitter Test Result

#### 3.1 Emissions in Non-restricted Frequency Bands

##### 3.1.1 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> |            |

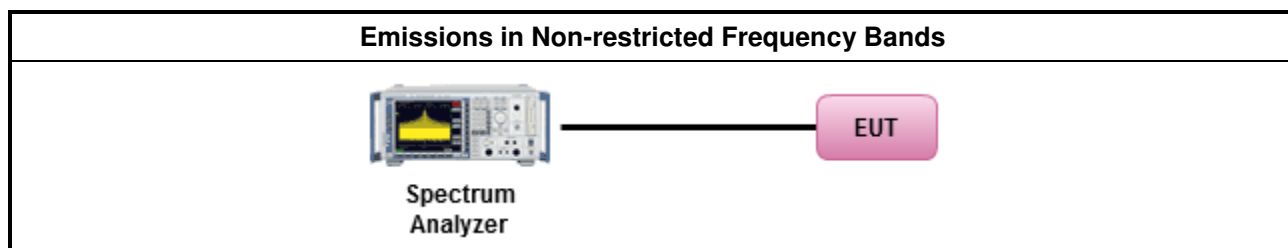
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

| Test Method                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 11 for unwanted emissions into non-restricted bands.</li> </ul> |

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix A

## 3.2 Emissions in Restricted Frequency Bands

### 3.2.1 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.

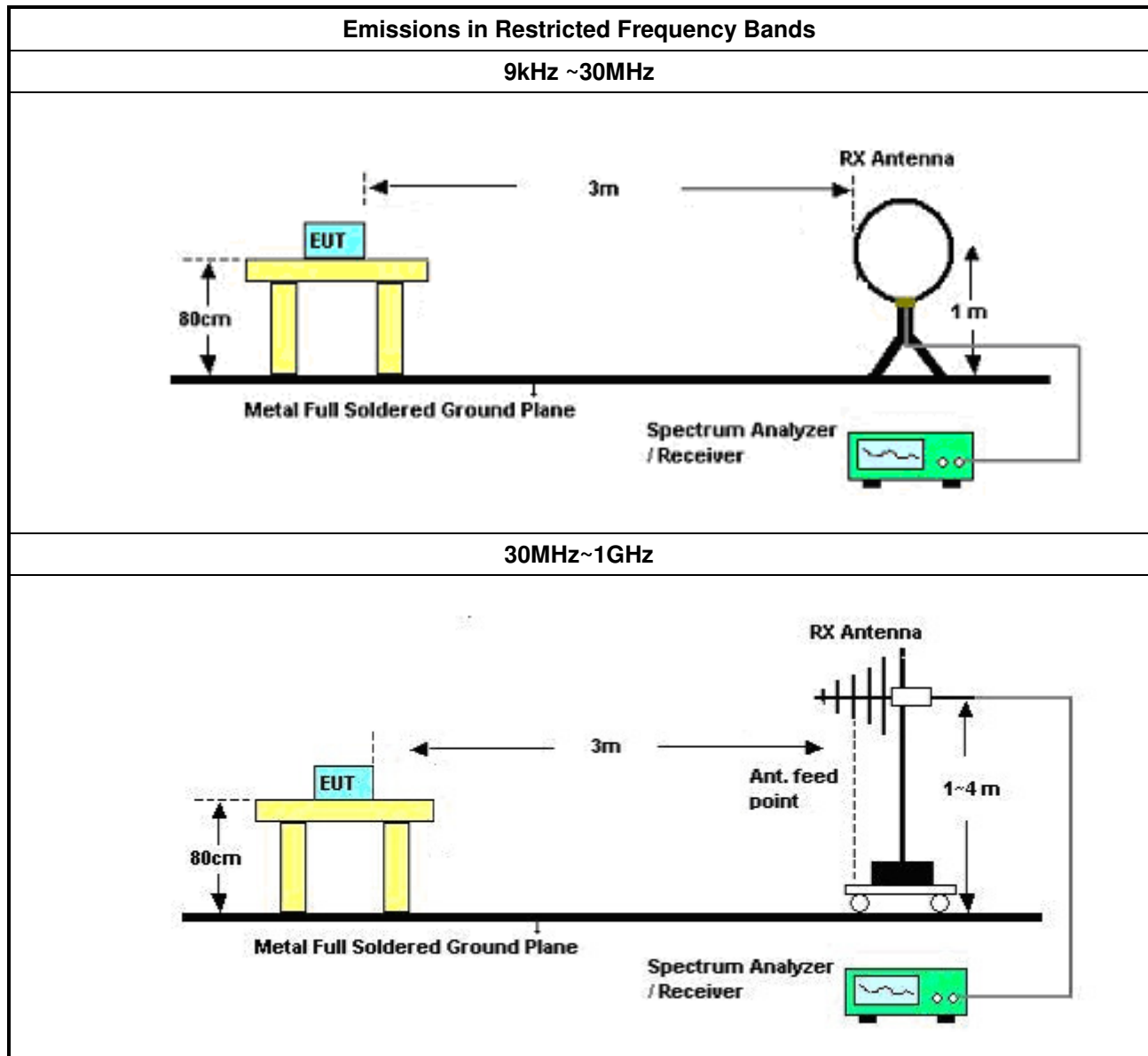
### 3.2.2 Measuring Instruments

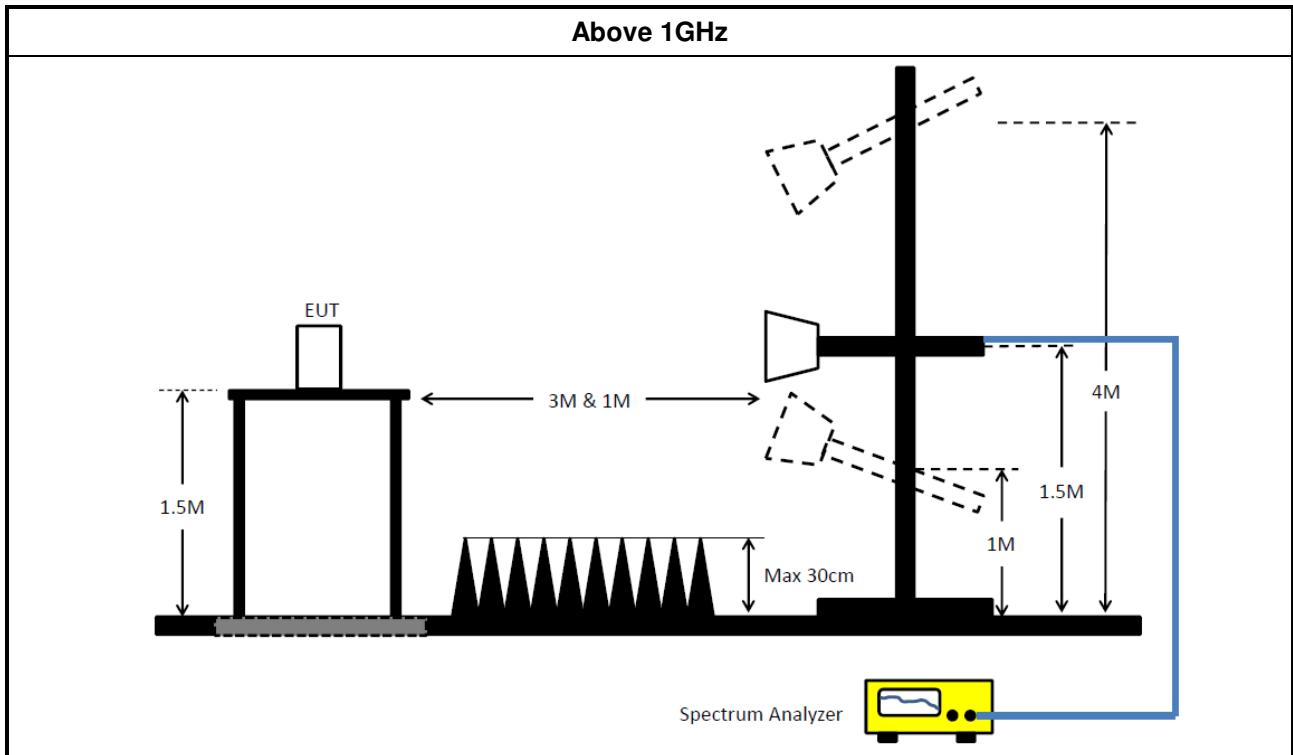
Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

| Test Method                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>The average emission levels shall be measured in [duty cycle <math>\geq 98</math> or duty factor].</li> </ul>                                                                        |                                                                                                                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 12 for unwanted emissions into restricted bands.</li> </ul>                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                             | <input checked="" type="checkbox"/> Refer as KDB 558074, clause 12.2.5.3 (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW $\geq 1/T$ .                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                             | <input checked="" type="checkbox"/> Refer as KDB 558074, clause 12.2.4 measurement procedure peak limit.                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>For the transmitter band-edge emissions shall be measured using following options below:</li> </ul>                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as KDB 558074 clause 13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.</li> </ul>                                                                                                                            |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 13.2 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.</li> </ul>                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).</li> </ul>                                                                                                                                                                                          |
| <ul style="list-style-type: none"> <li>For conducted and cabinet radiation measurement, refer as KDB 558074, clause 12.2.2.</li> </ul>                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>For conducted unwanted emissions into restricted bands (absolute emission limits).<br/>Devices with multiple transmit chains using options given below:<br/>(1) Measure and sum the spectra across the outputs or<br/>(2) Measure and add 10 log(N) dB</li> </ul>                                                                                   |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>For KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.</li> </ul> |

### 3.2.4 Test Setup





### 3.2.5 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

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

### 3.2.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix B

## 4 Test Equipment and Calibration Data

### Instrument for Radiated Test

| Instrument               | Manufacturer | Model No.               | Serial No.        | Spec.          | Calibration Date | Calibration Due Date |
|--------------------------|--------------|-------------------------|-------------------|----------------|------------------|----------------------|
| 3m Semi Anechoic Chamber | TDK          | SAC-3M                  | 03CH09-HY         | 30MHz ~ 1GHz   | 25/Apr/2017      | 24/Apr/2018          |
| 3m Semi Anechoic Chamber | TDK          | SAC-3M                  | 03CH09-HY         | 1GHz ~ 18GHz   | 21/Jun/2017      | 20/Jun/2018          |
| Amplifier                | Agilent      | 8449B                   | 3008A02096        | 1GHz ~ 26.5GHz | 25/Apr/2017      | 24/Apr/2018          |
| Amplifier                | EMC          | EMC9135                 | 980232            | 9KHz~1GHz      | 25/Apr/2017      | 24/Apr/2018          |
| Spectrum Analyzer        | KEYSIGHT     | N9010A                  | MY54200885        | 10Hz ~ 44GHz   | 20/Jul/2017      | 19/Jul/2018          |
| Bilog Antenna            | TESEQ        | CBL 6111D               | 35418             | 30MHz~1GHz     | 09/Sep/2017      | 08/Sep/2018          |
| Horn Antenna             | SCHWARZBECK  | BBHA 9120D              | BBHA9120D<br>1534 | 1GHz~18GHz     | 28/Apr/2017      | 27/Apr/2018          |
| Horn Antenna             | SCHWARZBECK  | BBHA9170                | BBHA9170614       | 18GHz ~ 40GHz  | 06/Feb/2017      | 05/Feb/2018          |
| Amplifier                | MITEQ        | JS44-18004000-3<br>3-8P | 1840917           | 18GHz ~ 40GHz  | 06/Feb/2017      | 05/Feb/2018          |
| RF Cable-R03m            | Jye Bao      | RG142                   | CB021             | 9kHz ~ 1GHz    | 02/Feb/2017      | 01/Feb/2018          |
| RF Cable-high            | Jye Bao      | RG142                   | 03CH09-HY         | 1GHz ~ 40GHz   | 02/Feb/2017      | 01/Feb/2018          |
| Receiver                 | R&S          | ESR3                    | 102052            | 9KHz ~ 3.6GHz  | 29/Apr/2017      | 28/Apr/2018          |

### Instrument for Conducted Test

| Instrument        | Manufacturer | Model No.    | Serial No. | Spec.           | Calibration Date | Calibration Due Date |
|-------------------|--------------|--------------|------------|-----------------|------------------|----------------------|
| Spectrum Analyzer | R&S          | FSV 40       | 101515     | 9kHz~40GHz      | 08/Dec/2017      | 07/Dec/2018          |
| Signal Generator  | R&S          | SMR40        | 100116     | 10MHz ~ 40GHz   | 27/Jul/2017      | 26/Jul/2018          |
| Power Sensor      | Anritsu      | MA2411B      | 0917017    | 300MHz ~ 40GHz  | 10/Feb/2017      | 09/Feb/2018          |
| Power Meter       | Anritsu      | ML2495A      | 0949003    | 300MHz ~ 40GHz  | 10/Feb/2017      | 09/Feb/2018          |
| RF Cable-0.2m     | HUBER+SUHNER | SUCOFLEX_104 | MY10710/4  | 30MHz ~ 26.5GHz | 25/Aug/2017      | 24/Aug/2018          |
| RF Cable-0.2m     | HUBER+SUHNER | SUCOFLEX_104 | MY10709/4  | 30MHz ~ 26.5GHz | 25/Aug/2017      | 24/Aug/2018          |
| RF Cable-0.5m     | HUBER+SUHNER | SUCOFLEX_104 | MY10713/4  | 30MHz ~ 26.5GHz | 25/Aug/2017      | 24/Aug/2018          |

**Summary**

| Mode                            | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|---------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 2.4-2.4835GHz                   | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 802.11b_Nss1,(1Mbps)_1TX(Port2) | Pass   | 2.412358G   | 6.18         | -13.82         | 159.315M     | -60.91         | 2.39952G     | -32.40         | 2.4935G      | -56.06         | 7.235136G    | -53.85         | 2    |
| 802.11g_Nss1,(6Mbps)_1TX(Port2) | Pass   | 2.418537G   | -2.37        | -22.37         | 2.305245G    | -59.34         | 2.39992G     | -36.82         | 2.50158G     | -55.13         | 6.973847G    | -53.44         | 2    |
| 802.11n HT20_Nss1,(MCS0)_2TX    | Pass   | 2.418537G   | -8.54        | -28.54         | 2.093215G    | -60.66         | 2.39992G     | -41.44         | 2.48702G     | -56.96         | 6.215265G    | -55.17         | 2    |
| 802.11n HT40_Nss1,(MCS0)_2TX    | Pass   | 2.425384G   | -13.64       | -33.64         | 2.30397G     | -60.72         | 2.39984G     | -48.16         | 2.48446G     | -57.54         | 6.972272G    | -53.92         | 2    |

**Result**

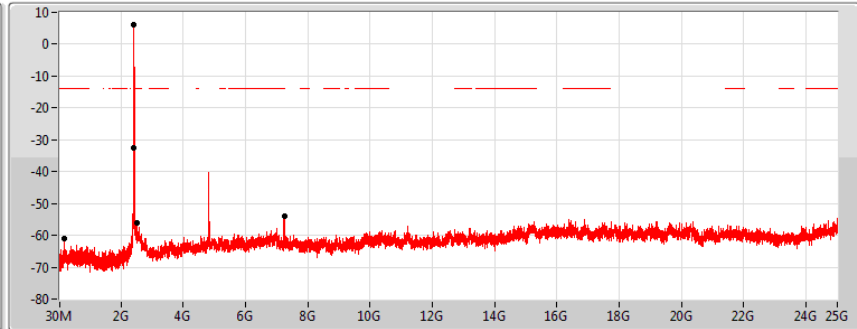
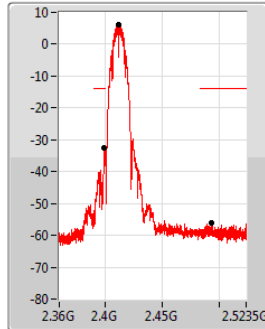
| Mode                            | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|---------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 802.11b_Nss1,(1Mbps)_1TX(Port2) | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz_TnomVnom                | Pass   | 2.412358G   | 6.18         | -13.82         | 159.315M     | -60.91         | 2.39952G     | -32.40         | 2.4935G      | -56.06         | 7.235136G    | -53.85         | 2    |
| 2437MHz_TnomVnom                | Pass   | 2.437408G   | 6.55         | -13.45         | 2.300585G    | -61.83         | 2.39784G     | -57.58         | 2.4891G      | -55.23         | 16.891603G   | -55.44         | 2    |
| 2462MHz_TnomVnom                | Pass   | 2.462959G   | 6.47         | -13.53         | 2.30175G     | -62.05         | 2.39128G     | -58.40         | 2.48702G     | -48.65         | 15.208675G   | -54.84         | 2    |
| 802.11g_Nss1,(6Mbps)_1TX(Port2) | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz_TnomVnom                | Pass   | 2.418537G   | -2.37        | -22.37         | 2.305245G    | -59.34         | 2.39992G     | -36.82         | 2.50158G     | -55.13         | 6.973847G    | -53.44         | 2    |
| 2437MHz_TnomVnom                | Pass   | 2.443587G   | -2.45        | -22.45         | 560.075M     | -60.15         | 2.39912G     | -57.84         | 2.48582G     | -56.32         | 6.982276G    | -53.70         | 2    |
| 2462MHz_TnomVnom                | Pass   | 2.466132G   | -2.04        | -22.04         | 2.30175G     | -59.30         | 2.3928G      | -58.04         | 2.48414G     | -48.84         | 6.990704G    | -54.48         | 2    |
| 802.11n HT20_Nss1,(MCS0)_2TX    | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz_TnomVnom                | Pass   | 2.411356G   | -9.15        | -29.15         | 2.11302G     | -60.10         | 2.39992G     | -42.09         | 2.50374G     | -58.81         | 6.965418G    | -55.40         | 1    |
| 2412MHz_TnomVnom                | Pass   | 2.418537G   | -8.54        | -28.54         | 2.093215G    | -60.66         | 2.39992G     | -41.44         | 2.48702G     | -56.96         | 6.215265G    | -55.17         | 2    |
| 2437MHz_TnomVnom                | Pass   | 2.429559G   | -10.33       | -30.33         | 1.99186G     | -60.88         | 2.39704G     | -58.83         | 2.48422G     | -57.83         | 6.987895G    | -54.99         | 1    |
| 2437MHz_TnomVnom                | Pass   | 2.442418G   | -9.86        | -29.86         | 2.095545G    | -59.75         | 2.39696G     | -58.81         | 2.50566G     | -57.13         | 6.996324G    | -53.40         | 2    |
| 2462MHz_TnomVnom                | Pass   | 2.470474G   | -9.94        | -29.94         | 2.127G       | -59.58         | 2.39416G     | -59.92         | 2.48582G     | -57.19         | 6.971037G    | -55.03         | 1    |
| 2462MHz_TnomVnom                | Pass   | 2.456613G   | -9.82        | -29.82         | 635.8M       | -60.85         | 2.39136G     | -59.06         | 2.4839G      | -55.49         | 6.243361G    | -54.77         | 2    |
| 802.11n HT40_Nss1,(MCS0)_2TX    | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2422MHz_TnomVnom                | Pass   | 2.418537G   | -13.43       | -33.43         | 496.015M     | -61.18         | 2.39984G     | -50.20         | 2.48462G     | -57.83         | 24.952322G   | -55.72         | 1    |
| 2422MHz_TnomVnom                | Pass   | 2.425384G   | -13.64       | -33.64         | 2.30397G     | -60.72         | 2.39984G     | -48.16         | 2.48446G     | -57.54         | 6.972272G    | -53.92         | 2    |
| 2437MHz_TnomVnom                | Pass   | 2.440581G   | -12.42       | -32.42         | 2.1597G      | -61.37         | 2.39984G     | -55.02         | 2.48814G     | -58.69         | 6.377705G    | -55.63         | 1    |
| 2437MHz_TnomVnom                | Pass   | 2.446593G   | -12.98       | -32.98         | 891.04M      | -60.91         | 2.39968G     | -52.79         | 2.50718G     | -56.50         | 6.386119G    | -54.71         | 2    |
| 2452MHz_TnomVnom                | Pass   | 2.45678G    | -13.23       | -33.23         | 2.103595G    | -61.47         | 2.39488G     | -59.61         | 2.48446G     | -54.75         | 6.846067G    | -55.07         | 1    |
| 2452MHz_TnomVnom                | Pass   | 2.45511G    | -13.15       | -33.15         | 2.053215G    | -60.05         | 2.39952G     | -58.13         | 2.48446G     | -53.12         | 6.245891G    | -54.53         | 2    |

## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

CSE NdB

2412MHz

05/01/2018



Port 2 

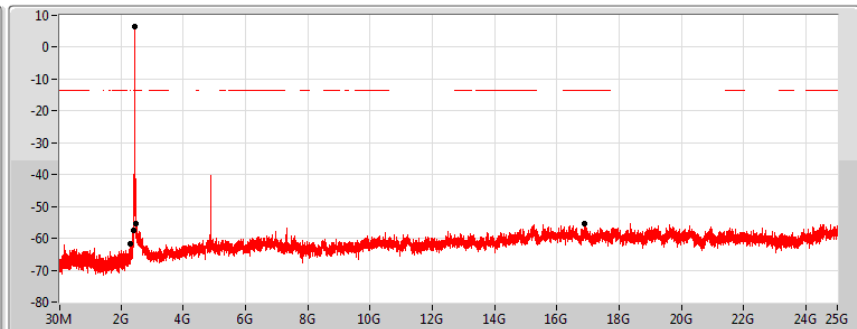
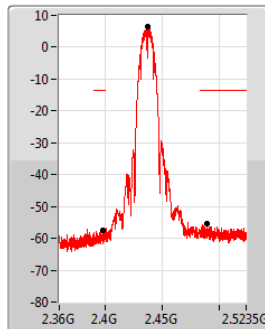
| Ref(Hz)   | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|-----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.412358G | 6.18     | -13.82     | 159.315M | -60.91     | 2.39952G | -32.40     | 2.4935G  | -56.06     | 7.235136G | -53.85     | 2    |

## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

CSE NdB

2437MHz

05/01/2018



Port 2 

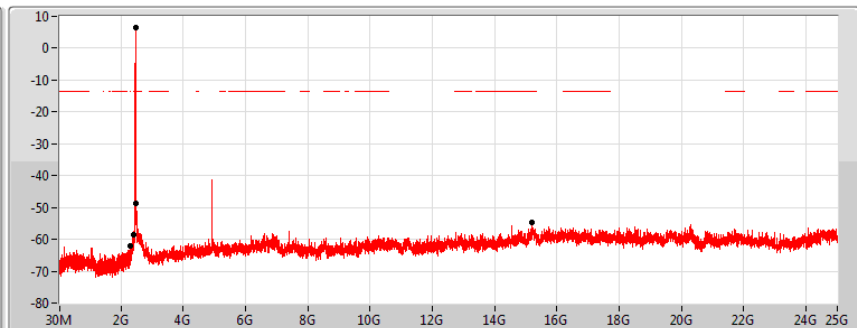
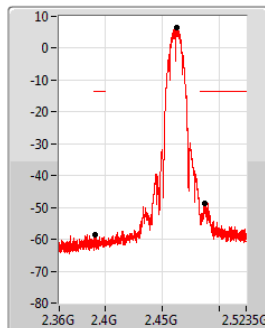
| Ref(Hz)   | Ref(dBm) | Limit(dBm) | Freq(Hz)  | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)   | Level(dBm) | Port |
|-----------|----------|------------|-----------|------------|----------|------------|----------|------------|------------|------------|------|
| 2.437408G | 6.55     | -13.45     | 2.300585G | -61.83     | 2.39784G | -57.58     | 2.4891G  | -55.23     | 16.891603G | -55.44     | 2    |

## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

CSE NdB

2462MHz

05/01/2018



Port 2 

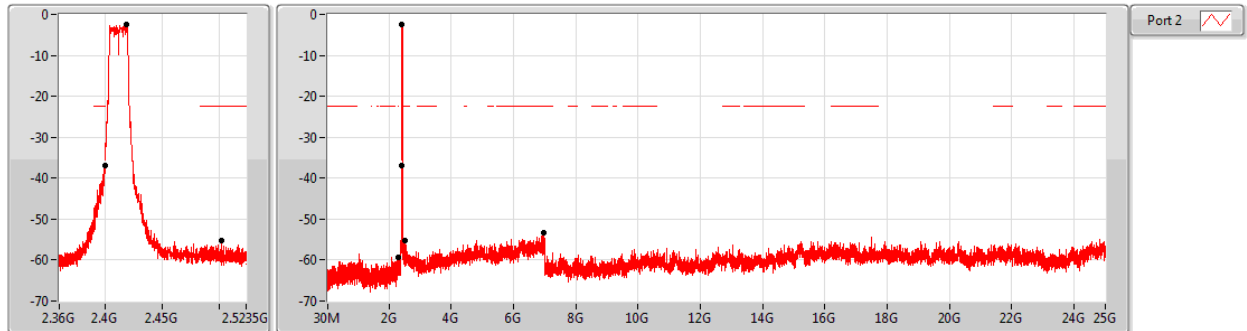
| Ref(Hz)   | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)   | Level(dBm) | Port |
|-----------|----------|------------|----------|------------|----------|------------|----------|------------|------------|------------|------|
| 2.462959G | 6.47     | -13.53     | 2.30175G | -62.05     | 2.39128G | -58.40     | 2.48702G | -48.65     | 15.208675G | -54.84     | 2    |

## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

CSE NdB

2412MHz

05/01/2018



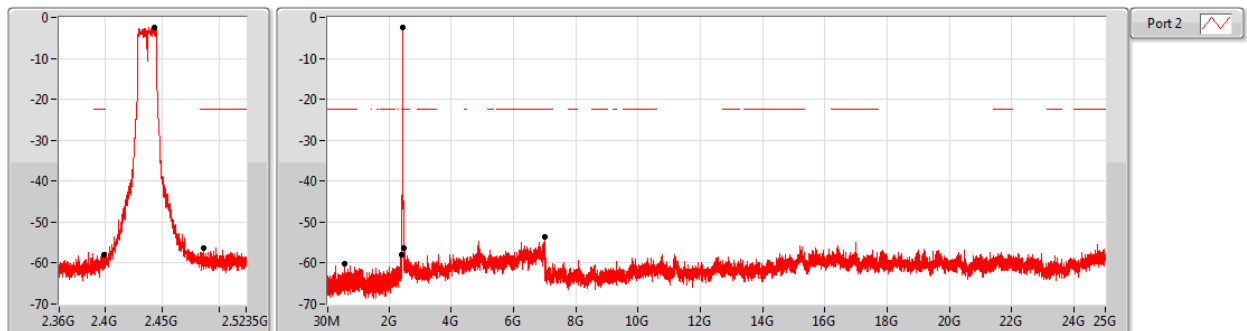
| Ref(Hz)   | Ref(dBm) | Limit(dBm) | Freq(Hz)  | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|-----------|----------|------------|-----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.418537G | -2.37    | -22.37     | 2.305245G | -59.34     | 2.39992G | -36.82     | 2.50158G | -55.13     | 6.973847G | -53.44     | 2    |

## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

CSE NdB

2437MHz

05/01/2018



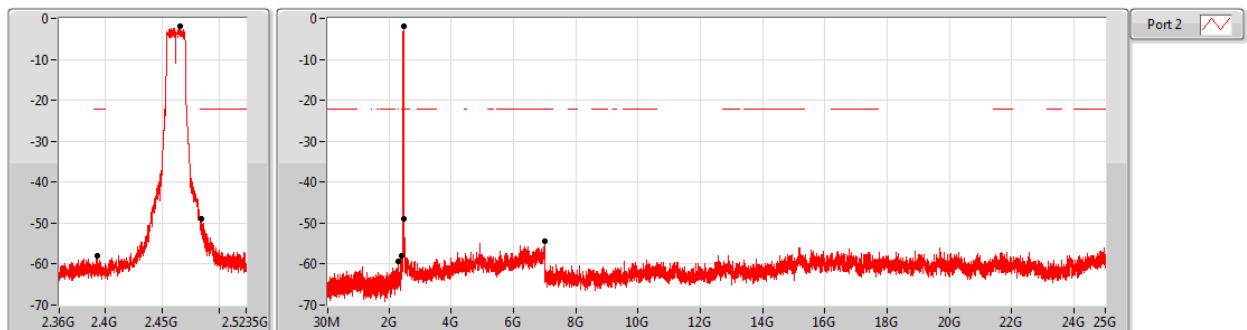
| Ref(Hz)   | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|-----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.443587G | -2.45    | -22.45     | 560.075M | -60.15     | 2.39912G | -57.84     | 2.48582G | -56.32     | 6.982276G | -53.70     | 2    |

## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

CSE NdB

2462MHz

05/01/2018



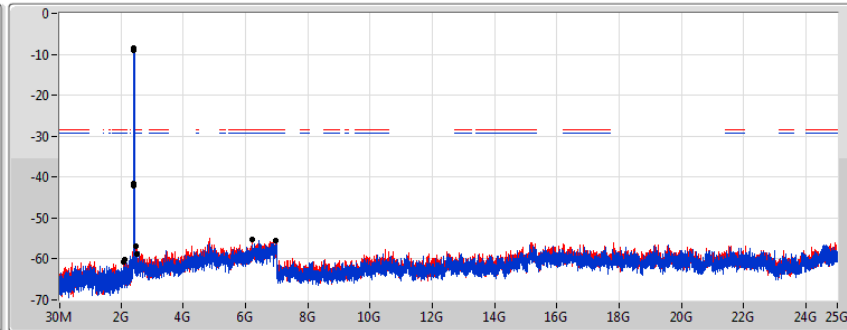
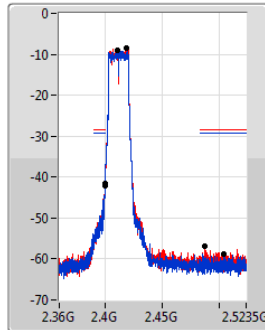
| Ref(Hz)   | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|-----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.466132G | -2.04    | -22.04     | 2.30175G | -59.30     | 2.3928G  | -58.04     | 2.48414G | -48.84     | 6.990704G | -54.48     | 2    |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

CSE NdB

2412MHz

05/01/2018



Port 1   
Port 2 

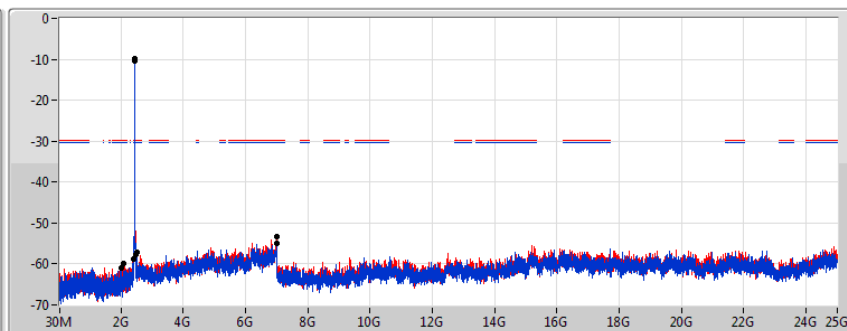
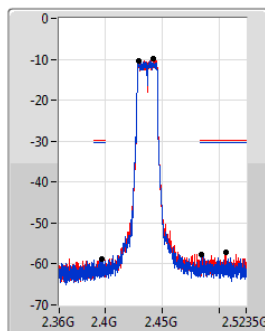
| Ref(Hz)   | Ref(dBm) | Limit(dBm) | Freq(Hz)  | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|-----------|----------|------------|-----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.411356G | -9.15    | -29.15     | 2.11302G  | -60.10     | 2.39992G | -42.09     | 2.50374G | -58.81     | 6.965418G | -55.40     | 1    |
| 2.418537G | -8.54    | -28.54     | 2.093215G | -60.66     | 2.39992G | -41.44     | 2.48702G | -56.96     | 6.215265G | -55.17     | 2    |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

CSE NdB

2437MHz

05/01/2018



Port 1   
Port 2 

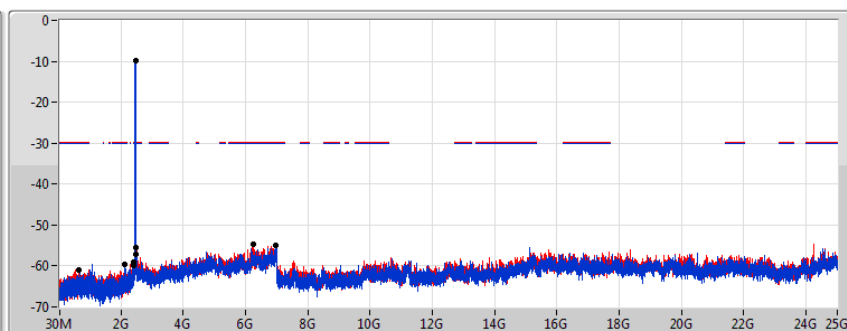
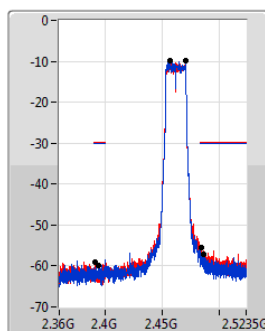
| Ref(Hz)   | Ref(dBm) | Limit(dBm) | Freq(Hz)  | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|-----------|----------|------------|-----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.429599G | -10.33   | -30.33     | 1.99186G  | -60.88     | 2.39704G | -58.83     | 2.48422G | -57.83     | 6.987895G | -54.99     | 1    |
| 2.442418G | -9.86    | -29.86     | 2.095545G | -59.75     | 2.39696G | -58.81     | 2.50566G | -57.13     | 6.996324G | -53.40     | 2    |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

CSE NdB

2462MHz

05/01/2018



Port 1   
Port 2 

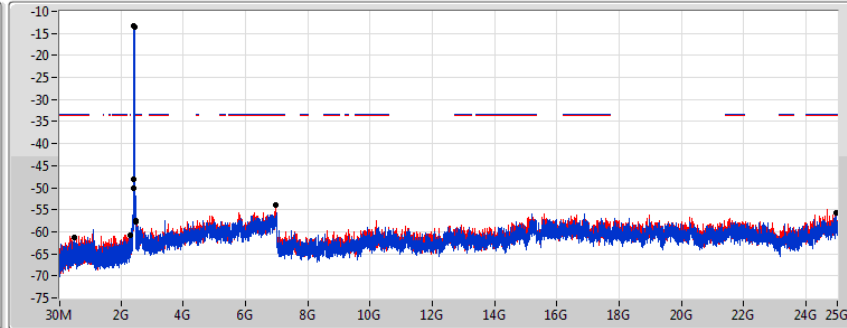
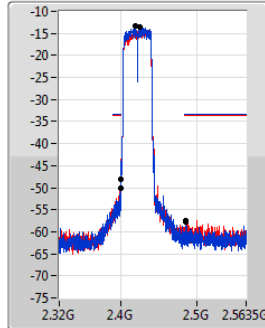
| Ref(Hz)   | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|-----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.470474G | -9.94    | -29.94     | 2.127G   | -59.58     | 2.39416G | -59.92     | 2.48582G | -57.19     | 6.971037G | -55.03     | 1    |
| 2.456613G | -9.82    | -29.82     | 635.8M   | -60.85     | 2.39136G | -59.06     | 2.4839G  | -55.49     | 6.243361G | -54.77     | 2    |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

CSE NdB

2422MHz

05/01/2018



Port 1   
Port 2 

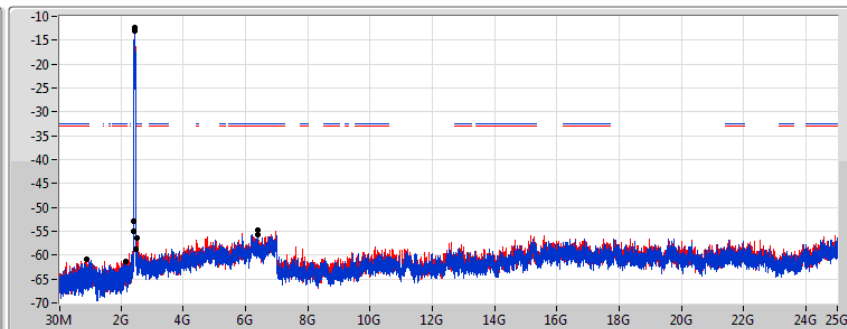
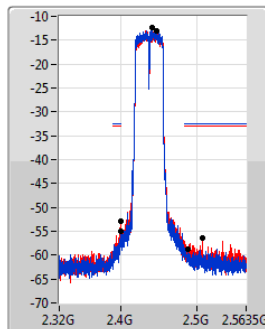
| Ref(Hz)   | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)   | Level(dBm) | Port |
|-----------|----------|------------|----------|------------|----------|------------|----------|------------|------------|------------|------|
| 2.418537G | -13.43   | -33.43     | 496.015M | -61.18     | 2.39984G | -50.20     | 2.48462G | -57.83     | 24.952322G | -55.72     | 1    |
| 2.425384G | -13.64   | -33.64     | 2.30397G | -60.72     | 2.39984G | -48.16     | 2.48446G | -57.54     | 6.972272G  | -53.92     | 2    |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

CSE NdB

2437MHz

05/01/2018



Port 1   
Port 2 

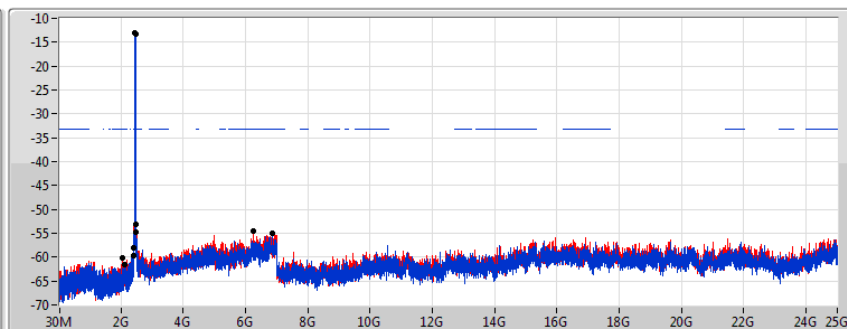
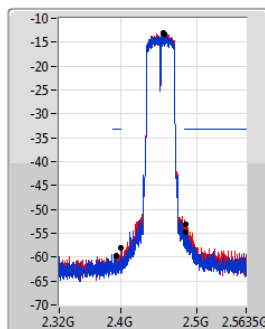
| Ref(Hz)   | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|-----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.440581G | -12.42   | -32.42     | 2.1597G  | -61.37     | 2.39984G | -55.02     | 2.48814G | -58.69     | 6.377705G | -55.63     | 1    |
| 2.446593G | -12.98   | -32.98     | 891.04M  | -60.91     | 2.39968G | -52.79     | 2.50718G | -56.50     | 6.386119G | -54.71     | 2    |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

CSE NdB

2452MHz

05/01/2018



Port 1   
Port 2 

| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz)  | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|-----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.45678G | -13.23   | -33.23     | 2.103595G | -61.47     | 2.39488G | -59.61     | 2.48446G | -54.75     | 6.846067G | -55.07     | 1    |
| 2.45511G | -13.15   | -33.15     | 2.053215G | -60.05     | 2.39952G | -58.13     | 2.48446G | -53.12     | 6.245891G | -54.53     | 2    |

**Summary**

| Mode                         | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| 2.4-2.4835GHz                | -      | -    | -            | -                 | -                 | -              | -              | -           | -         | -              | -             | -        |
| 802.11n HT40_Nss1,(MCS0)_2TX | Pass   | QP   | 256.98M      | 42.57             | 46.00             | -3.43          | -14.75         | 3           | Vertical  | 357            | 1.71          | -        |

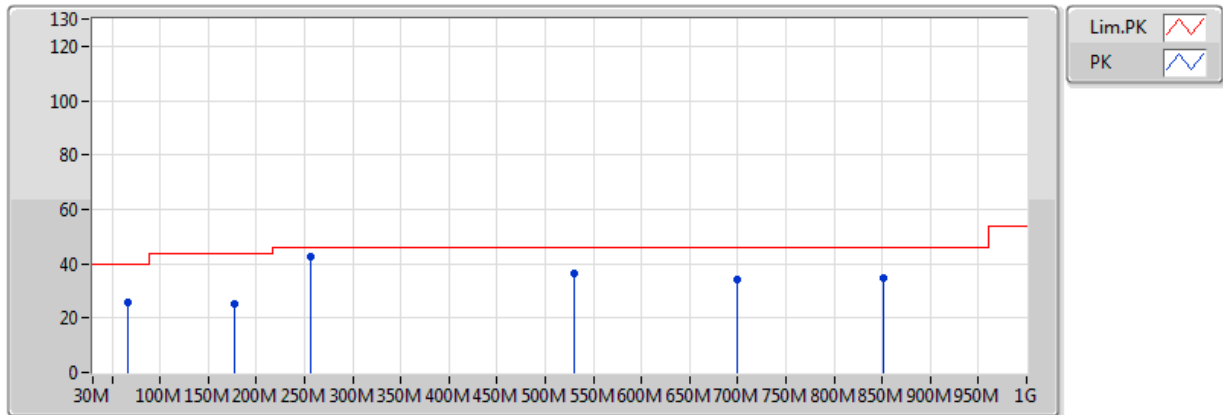
**Result**

| Mode                         | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 802.11n HT40_Nss1,(MCS0)_2TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 2437MHz                      | Pass   | PK   | 88.2M        | 26.90             | 43.50             | -16.60         | -21.79         | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 165.8M       | 27.08             | 43.50             | -16.42         | -19.23         | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 431.58M      | 33.54             | 46.00             | -12.46         | -11.17         | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 532.46M      | 34.48             | 46.00             | -11.52         | -9.67          | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 639.16M      | 35.20             | 46.00             | -10.80         | -7.24          | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz                      | Pass   | QP   | 270.56M      | 41.98             | 46.00             | -4.02          | -14.97         | 3           | Horizontal | 280            | 1.01          | -        |
| 2437MHz                      | Pass   | PK   | 66.86M       | 25.63             | 40.00             | -14.37         | -24.53         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 177.44M      | 25.05             | 43.50             | -18.45         | -20.00         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 530.52M      | 36.15             | 46.00             | -9.85          | -9.68          | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 699.3M       | 34.05             | 46.00             | -11.95         | -7.23          | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 850.62M      | 34.78             | 46.00             | -11.22         | -4.13          | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | QP   | 256.98M      | 42.57             | 46.00             | -3.43          | -14.75         | 3           | Vertical   | 357            | 1.71          | -        |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

## 2437MHz\_USB

29/11/2017

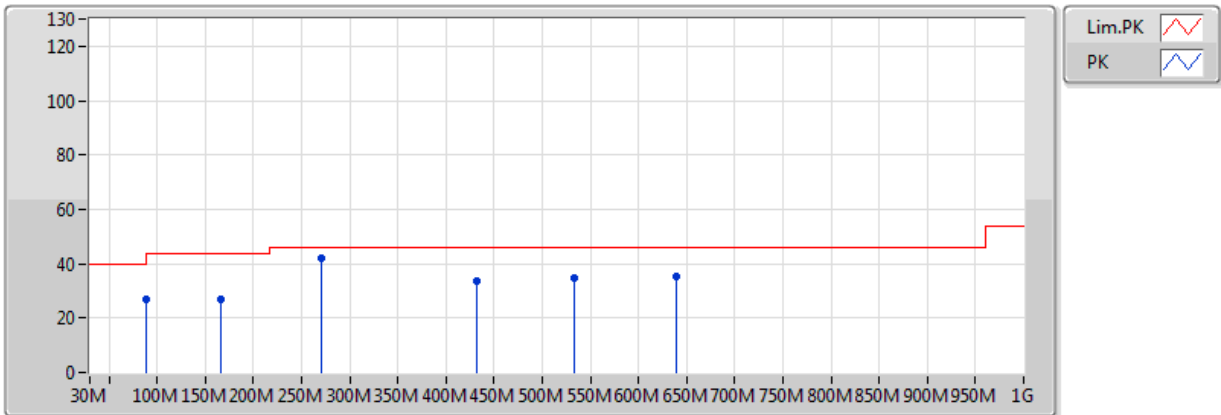


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 66.86M       | 25.63             | 40.00             | -14.37         | -24.53         | 3           | Vertical  | 0              | 1.00          | -        | 50.16         | 11.18      | 1.32       | 37.03      |
| PK   | 177.44M      | 25.05             | 43.50             | -18.45         | -20.00         | 3           | Vertical  | 0              | 1.00          | -        | 45.05         | 14.28      | 2.18       | 36.47      |
| PK   | 530.52M      | 36.15             | 46.00             | -9.85          | -9.68          | 3           | Vertical  | 0              | 1.00          | -        | 45.83         | 23.31      | 4.01       | 37.00      |
| PK   | 699.3M       | 34.05             | 46.00             | -11.95         | -7.23          | 3           | Vertical  | 0              | 1.00          | -        | 41.28         | 25.77      | 4.35       | 37.35      |
| PK   | 850.62M      | 34.78             | 46.00             | -11.22         | -4.13          | 3           | Vertical  | 0              | 1.00          | -        | 38.91         | 28.33      | 5.04       | 37.50      |
| QP   | 256.98M      | 42.57             | 46.00             | -3.43          | -14.75         | 3           | Vertical  | 357            | 1.71          | -        | 57.32         | 19.05      | 2.62       | 36.42      |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

## 2437MHz\_USB

29/11/2017



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 88.2M        | 26.90             | 43.50             | -16.60         | -21.79         | 3           | Horizontal | 360            | 1.00          | -        | 48.69         | 13.58      | 1.50       | 36.88      |
| PK   | 165.8M       | 27.08             | 43.50             | -16.42         | -19.23         | 3           | Horizontal | 360            | 1.00          | -        | 46.31         | 15.18      | 2.12       | 36.53      |
| PK   | 431.58M      | 33.54             | 46.00             | -12.46         | -11.17         | 3           | Horizontal | 360            | 1.00          | -        | 44.71         | 22.08      | 3.46       | 36.70      |
| PK   | 532.46M      | 34.48             | 46.00             | -11.52         | -9.67          | 3           | Horizontal | 360            | 1.00          | -        | 44.15         | 23.32      | 4.01       | 37.01      |
| PK   | 639.16M      | 35.20             | 46.00             | -10.80         | -7.24          | 3           | Horizontal | 360            | 1.00          | -        | 42.44         | 25.65      | 4.35       | 37.25      |
| QP   | 270.56M      | 41.98             | 46.00             | -4.02          | -14.97         | 3           | Horizontal | 280            | 1.01          | -        | 56.94         | 18.72      | 2.73       | 36.42      |

**Summary**

| Mode                            | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| 2.4-2.4835GHz                   | -      | -    | -            | -                 | -                 | -              | -              | -           | -         | -              | -             | -        |
| 802.11b_Nss1,(1Mbps)_1TX(Port2) | Pass   | AV   | 4.824G       | 52.01             | 54.00             | -1.99          | 4.15           | 3           | Vertical  | 283            | 1.84          | -        |
| 802.11g_Nss1,(6Mbps)_1TX(Port2) | Pass   | AV   | 2.4836G      | 52.28             | 54.00             | -1.72          | 33.30          | 3           | Vertical  | 290            | 2.39          | -        |
| 802.11n HT20_Nss1,(MCS0)_2TX    | Pass   | AV   | 2.4836G      | 50.29             | 54.00             | -3.71          | 33.30          | 3           | Vertical  | 108            | 3.69          | -        |
| 802.11n HT40_Nss1,(MCS0)_2TX    | Pass   | AV   | 2.4848G      | 50.89             | 54.00             | -3.11          | 33.30          | 3           | Vertical  | 0              | 1.50          | -        |

**Result**

| Mode                            | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 802.11b_Nss1,(1Mbps)_1TX(Port2) | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 2412MHz                         | Pass   | AV   | 2.3858G      | 49.41             | 54.00             | -4.59          | 32.93          | 3           | Vertical   | 295            | 1.50          | -        |
| 2412MHz                         | Pass   | AV   | 2.411G       | 99.11             | Inf               | -Inf           | 33.02          | 3           | Vertical   | 295            | 1.50          | -        |
| 2412MHz                         | Pass   | PK   | 2.3828G      | 59.01             | 74.00             | -14.99         | 32.92          | 3           | Vertical   | 295            | 1.50          | -        |
| 2412MHz                         | Pass   | PK   | 2.412G       | 102.59            | Inf               | -Inf           | 33.03          | 3           | Vertical   | 295            | 1.50          | -        |
| 2412MHz                         | Pass   | AV   | 4.82404G     | 48.72             | 54.00             | -5.28          | 4.15           | 3           | Horizontal | 147            | 3.69          | -        |
| 2412MHz                         | Pass   | PK   | 4.82408G     | 52.56             | 74.00             | -21.44         | 4.15           | 3           | Horizontal | 147            | 3.69          | -        |
| 2412MHz                         | Pass   | AV   | 4.824G       | 52.01             | 54.00             | -1.99          | 4.15           | 3           | Vertical   | 283            | 1.84          | -        |
| 2412MHz                         | Pass   | PK   | 4.82404G     | 54.39             | 74.00             | -19.61         | 4.15           | 3           | Vertical   | 283            | 1.84          | -        |
| 2437MHz                         | Pass   | AV   | 2.3818G      | 48.08             | 54.00             | -5.92          | 32.91          | 3           | Vertical   | 292            | 2.47          | -        |
| 2437MHz                         | Pass   | AV   | 2.4382G      | 102.59            | Inf               | -Inf           | 33.13          | 3           | Vertical   | 292            | 2.47          | -        |
| 2437MHz                         | Pass   | AV   | 2.487G       | 49.03             | 54.00             | -4.97          | 33.31          | 3           | Vertical   | 292            | 2.47          | -        |
| 2437MHz                         | Pass   | PK   | 2.3686G      | 59.06             | 74.00             | -14.94         | 32.86          | 3           | Vertical   | 292            | 2.47          | -        |
| 2437MHz                         | Pass   | PK   | 2.437G       | 105.86            | Inf               | -Inf           | 33.12          | 3           | Vertical   | 292            | 2.47          | -        |
| 2437MHz                         | Pass   | PK   | 2.4898G      | 60.46             | 74.00             | -13.54         | 33.32          | 3           | Vertical   | 292            | 2.47          | -        |
| 2437MHz                         | Pass   | AV   | 4.87404G     | 44.77             | 54.00             | -9.23          | 4.28           | 3           | Horizontal | 146            | 3.59          | -        |
| 2437MHz                         | Pass   | PK   | 4.87416G     | 49.26             | 74.00             | -24.74         | 4.28           | 3           | Horizontal | 146            | 3.59          | -        |
| 2437MHz                         | Pass   | AV   | 4.87404G     | 45.52             | 54.00             | -8.48          | 4.28           | 3           | Vertical   | 285            | 1.96          | -        |
| 2437MHz                         | Pass   | PK   | 4.87388G     | 49.28             | 74.00             | -24.72         | 4.27           | 3           | Vertical   | 285            | 1.96          | -        |
| 2462MHz                         | Pass   | AV   | 2.461G       | 102.92            | Inf               | -Inf           | 33.21          | 3           | Vertical   | 291            | 2.40          | -        |
| 2462MHz                         | Pass   | AV   | 2.4884G      | 51.76             | 54.00             | -2.24          | 33.32          | 3           | Vertical   | 291            | 2.40          | -        |
| 2462MHz                         | Pass   | PK   | 2.462G       | 106.36            | Inf               | -Inf           | 33.22          | 3           | Vertical   | 291            | 2.40          | -        |
| 2462MHz                         | Pass   | PK   | 2.4962G      | 61.30             | 74.00             | -12.70         | 33.35          | 3           | Vertical   | 291            | 2.40          | -        |
| 2462MHz                         | Pass   | AV   | 4.924G       | 42.70             | 54.00             | -11.30         | 4.40           | 3           | Horizontal | 145            | 3.69          | -        |
| 2462MHz                         | Pass   | PK   | 4.92392G     | 48.78             | 74.00             | -25.22         | 4.40           | 3           | Horizontal | 145            | 3.69          | -        |
| 2462MHz                         | Pass   | AV   | 4.92406G     | 44.05             | 54.00             | -9.95          | 4.40           | 3           | Vertical   | 185            | 3.65          | -        |
| 2462MHz                         | Pass   | PK   | 4.9242G      | 49.49             | 74.00             | -24.51         | 4.40           | 3           | Vertical   | 185            | 3.65          | -        |
| 802.11g_Nss1,(6Mbps)_1TX(Port2) | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 2412MHz                         | Pass   | AV   | 2.39G        | 51.65             | 54.00             | -2.35          | 32.94          | 3           | Vertical   | 291            | 2.22          | -        |
| 2412MHz                         | Pass   | AV   | 2.419G       | 96.72             | Inf               | -Inf           | 33.05          | 3           | Vertical   | 291            | 2.22          | -        |
| 2412MHz                         | Pass   | PK   | 2.3882G      | 61.91             | 74.00             | -12.09         | 32.94          | 3           | Vertical   | 291            | 2.22          | -        |
| 2412MHz                         | Pass   | PK   | 2.4188G      | 103.96            | Inf               | -Inf           | 33.05          | 3           | Vertical   | 291            | 2.22          | -        |
| 2412MHz                         | Pass   | AV   | 4.82416G     | 37.45             | 54.00             | -16.55         | 4.15           | 3           | Horizontal | 142            | 3.69          | -        |
| 2412MHz                         | Pass   | PK   | 4.82392G     | 47.63             | 74.00             | -26.37         | 4.15           | 3           | Horizontal | 142            | 3.69          | -        |
| 2412MHz                         | Pass   | AV   | 4.82416G     | 39.96             | 54.00             | -14.04         | 4.15           | 3           | Vertical   | 279            | 3.25          | -        |
| 2412MHz                         | Pass   | PK   | 4.82436G     | 49.74             | 74.00             | -24.26         | 4.15           | 3           | Vertical   | 279            | 3.25          | -        |
| 2437MHz                         | Pass   | AV   | 2.3842G      | 48.13             | 54.00             | -5.87          | 32.92          | 3           | Vertical   | 289            | 2.50          | -        |
| 2437MHz                         | Pass   | AV   | 2.4438G      | 97.25             | Inf               | -Inf           | 33.15          | 3           | Vertical   | 289            | 2.50          | -        |
| 2437MHz                         | Pass   | AV   | 2.4946G      | 48.96             | 54.00             | -5.04          | 33.34          | 3           | Vertical   | 289            | 2.50          | -        |
| 2437MHz                         | Pass   | PK   | 2.353G       | 58.79             | 74.00             | -15.21         | 32.81          | 3           | Vertical   | 289            | 2.50          | -        |
| 2437MHz                         | Pass   | PK   | 2.4438G      | 104.49            | Inf               | -Inf           | 33.15          | 3           | Vertical   | 289            | 2.50          | -        |
| 2437MHz                         | Pass   | PK   | 2.4906G      | 59.58             | 74.00             | -14.42         | 33.32          | 3           | Vertical   | 289            | 2.50          | -        |
| 2437MHz                         | Pass   | AV   | 4.88696G     | 34.23             | 54.00             | -19.77         | 4.31           | 3           | Horizontal | 0              | 1.50          | -        |
| 2437MHz                         | Pass   | PK   | 4.86482G     | 44.29             | 74.00             | -29.71         | 4.25           | 3           | Horizontal | 0              | 1.50          | -        |
| 2437MHz                         | Pass   | AV   | 4.87412G     | 34.44             | 54.00             | -19.56         | 4.28           | 3           | Vertical   | 360            | 1.50          | -        |
| 2437MHz                         | Pass   | PK   | 4.883G       | 44.72             | 74.00             | -29.28         | 4.30           | 3           | Vertical   | 360            | 1.50          | -        |
| 2462MHz                         | Pass   | AV   | 2.4554G      | 97.05             | Inf               | -Inf           | 33.19          | 3           | Vertical   | 290            | 2.39          | -        |
| 2462MHz                         | Pass   | AV   | 2.4836G      | 52.28             | 54.00             | -1.72          | 33.30          | 3           | Vertical   | 290            | 2.39          | -        |



## RSE TX above 1GHz Result

## Appendix B.2

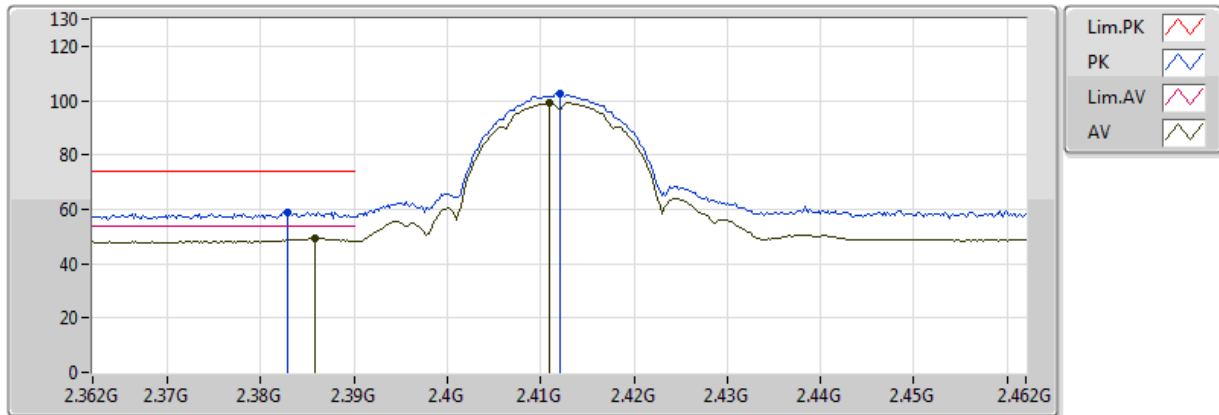
| Mode                         | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 2462MHz                      | Pass   | PK   | 2.4652G      | 104.30            | Inf               | -Inf           | 33.23          | 3           | Vertical   | 290            | 2.39          | -        |
| 2462MHz                      | Pass   | PK   | 2.4836G      | 64.00             | 74.00             | -10.00         | 33.30          | 3           | Vertical   | 290            | 2.39          | -        |
| 2462MHz                      | Pass   | AV   | 4.93324G     | 35.00             | 54.00             | -19.00         | 4.42           | 3           | Horizontal | 360            | 1.50          | -        |
| 2462MHz                      | Pass   | PK   | 4.93462G     | 45.21             | 74.00             | -28.79         | 4.43           | 3           | Horizontal | 360            | 1.50          | -        |
| 2462MHz                      | Pass   | AV   | 4.92394G     | 35.19             | 54.00             | -18.81         | 4.40           | 3           | Vertical   | 0              | 1.50          | -        |
| 2462MHz                      | Pass   | PK   | 4.92748G     | 45.34             | 74.00             | -28.66         | 4.41           | 3           | Vertical   | 0              | 1.50          | -        |
| 802.11n HT20_Nss1,(MCS0)_2TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 2412MHz                      | Pass   | AV   | 2.39G        | 49.48             | 54.00             | -4.52          | 32.94          | 3           | Vertical   | 360            | 1.50          | -        |
| 2412MHz                      | Pass   | AV   | 2.413G       | 92.74             | Inf               | -Inf           | 33.03          | 3           | Vertical   | 360            | 1.50          | -        |
| 2412MHz                      | Pass   | PK   | 2.3898G      | 60.06             | 74.00             | -13.94         | 32.94          | 3           | Vertical   | 360            | 1.50          | -        |
| 2412MHz                      | Pass   | PK   | 2.409G       | 100.51            | Inf               | -Inf           | 33.01          | 3           | Vertical   | 360            | 1.50          | -        |
| 2412MHz                      | Pass   | AV   | 4.8105G      | 34.83             | 54.00             | -19.17         | 4.12           | 3           | Horizontal | 360            | 1.50          | -        |
| 2412MHz                      | Pass   | PK   | 4.80906G     | 45.17             | 74.00             | -28.83         | 4.11           | 3           | Horizontal | 360            | 1.50          | -        |
| 2412MHz                      | Pass   | AV   | 4.82408G     | 36.41             | 54.00             | -17.59         | 4.15           | 3           | Vertical   | 0              | 1.50          | -        |
| 2412MHz                      | Pass   | PK   | 4.82198G     | 46.40             | 74.00             | -27.60         | 4.14           | 3           | Vertical   | 0              | 1.50          | -        |
| 2437MHz                      | Pass   | AV   | 2.3818G      | 48.10             | 54.00             | -5.90          | 32.91          | 3           | Vertical   | 360            | 1.50          | -        |
| 2437MHz                      | Pass   | AV   | 2.4378G      | 92.54             | Inf               | -Inf           | 33.12          | 3           | Vertical   | 360            | 1.50          | -        |
| 2437MHz                      | Pass   | AV   | 2.4902G      | 48.97             | 54.00             | -5.03          | 33.32          | 3           | Vertical   | 360            | 1.50          | -        |
| 2437MHz                      | Pass   | PK   | 2.3774G      | 59.15             | 74.00             | -14.85         | 32.90          | 3           | Vertical   | 360            | 1.50          | -        |
| 2437MHz                      | Pass   | PK   | 2.4338G      | 100.33            | Inf               | -Inf           | 33.11          | 3           | Vertical   | 360            | 1.50          | -        |
| 2437MHz                      | Pass   | PK   | 2.4846G      | 59.97             | 74.00             | -14.03         | 33.30          | 3           | Vertical   | 360            | 1.50          | -        |
| 2437MHz                      | Pass   | AV   | 4.88304G     | 33.94             | 54.00             | -20.06         | 4.30           | 3           | Horizontal | 360            | 1.50          | -        |
| 2437MHz                      | Pass   | PK   | 4.8772G      | 43.98             | 74.00             | -30.02         | 4.28           | 3           | Horizontal | 360            | 1.50          | -        |
| 2437MHz                      | Pass   | AV   | 4.88304G     | 34.07             | 54.00             | -19.93         | 4.30           | 3           | Vertical   | 0              | 1.50          | -        |
| 2437MHz                      | Pass   | PK   | 4.88392G     | 44.36             | 74.00             | -29.64         | 4.30           | 3           | Vertical   | 0              | 1.50          | -        |
| 2462MHz                      | Pass   | AV   | 2.4694G      | 94.19             | Inf               | -Inf           | 33.24          | 3           | Vertical   | 108            | 3.69          | -        |
| 2462MHz                      | Pass   | AV   | 2.4836G      | 50.29             | 54.00             | -3.71          | 33.30          | 3           | Vertical   | 108            | 3.69          | -        |
| 2462MHz                      | Pass   | PK   | 2.459G       | 101.28            | Inf               | -Inf           | 33.20          | 3           | Vertical   | 108            | 3.69          | -        |
| 2462MHz                      | Pass   | PK   | 2.484G       | 60.98             | 74.00             | -13.02         | 33.30          | 3           | Vertical   | 108            | 3.69          | -        |
| 2462MHz                      | Pass   | AV   | 4.92956G     | 36.37             | 54.00             | -17.63         | 4.41           | 3           | Horizontal | 360            | 1.50          | -        |
| 2462MHz                      | Pass   | PK   | 4.92324G     | 47.76             | 74.00             | -26.24         | 4.40           | 3           | Horizontal | 360            | 1.50          | -        |
| 2462MHz                      | Pass   | AV   | 4.92376G     | 36.47             | 54.00             | -17.53         | 4.40           | 3           | Vertical   | 0              | 1.50          | -        |
| 2462MHz                      | Pass   | PK   | 4.92928G     | 47.88             | 74.00             | -26.12         | 4.41           | 3           | Vertical   | 0              | 1.50          | -        |
| 802.11n HT40_Nss1,(MCS0)_2TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 2422MHz                      | Pass   | AV   | 2.3896G      | 50.14             | 54.00             | -3.86          | 32.94          | 3           | Vertical   | 2              | 1.50          | -        |
| 2422MHz                      | Pass   | AV   | 2.43G        | 89.92             | Inf               | -Inf           | 33.09          | 3           | Vertical   | 2              | 1.50          | -        |
| 2422MHz                      | Pass   | AV   | 2.4864G      | 48.99             | 54.00             | -5.01          | 33.31          | 3           | Vertical   | 2              | 1.50          | -        |
| 2422MHz                      | Pass   | PK   | 2.386G       | 61.34             | 74.00             | -12.66         | 32.93          | 3           | Vertical   | 2              | 1.50          | -        |
| 2422MHz                      | Pass   | PK   | 2.4288G      | 97.72             | Inf               | -Inf           | 33.09          | 3           | Vertical   | 2              | 1.50          | -        |
| 2422MHz                      | Pass   | PK   | 2.4928G      | 59.46             | 74.00             | -14.54         | 33.33          | 3           | Vertical   | 2              | 1.50          | -        |
| 2422MHz                      | Pass   | AV   | 4.83556G     | 33.93             | 54.00             | -20.07         | 4.18           | 3           | Horizontal | 360            | 1.50          | -        |
| 2422MHz                      | Pass   | PK   | 4.83524G     | 45.06             | 74.00             | -28.94         | 4.18           | 3           | Horizontal | 360            | 1.50          | -        |
| 2422MHz                      | Pass   | AV   | 4.84388G     | 34.87             | 54.00             | -19.13         | 4.20           | 3           | Vertical   | 0              | 1.50          | -        |
| 2422MHz                      | Pass   | PK   | 4.8442G      | 44.40             | 74.00             | -29.60         | 4.20           | 3           | Vertical   | 0              | 1.50          | -        |
| 2437MHz                      | Pass   | AV   | 2.3898G      | 48.42             | 54.00             | -5.58          | 32.94          | 3           | Vertical   | 62             | 1.02          | -        |
| 2437MHz                      | Pass   | AV   | 2.4326G      | 90.51             | Inf               | -Inf           | 33.10          | 3           | Vertical   | 62             | 1.02          | -        |
| 2437MHz                      | Pass   | AV   | 2.4838G      | 49.51             | 54.00             | -4.49          | 33.30          | 3           | Vertical   | 62             | 1.02          | -        |
| 2437MHz                      | Pass   | PK   | 2.3886G      | 59.25             | 74.00             | -14.75         | 32.94          | 3           | Vertical   | 62             | 1.02          | -        |
| 2437MHz                      | Pass   | PK   | 2.435G       | 98.10             | Inf               | -Inf           | 33.11          | 3           | Vertical   | 62             | 1.02          | -        |

| Mode    | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 2437MHz | Pass   | PK   | 2.4838G      | 59.98             | 74.00             | -14.02         | 33.30          | 3           | Vertical   | 62             | 1.02          | -        |
| 2437MHz | Pass   | AV   | 4.88756G     | 33.81             | 54.00             | -20.19         | 4.31           | 3           | Horizontal | 0              | 1.50          | -        |
| 2437MHz | Pass   | PK   | 4.87742G     | 43.99             | 74.00             | -30.01         | 4.28           | 3           | Horizontal | 0              | 1.50          | -        |
| 2437MHz | Pass   | AV   | 4.88576G     | 33.90             | 54.00             | -20.10         | 4.30           | 3           | Vertical   | 360            | 1.50          | -        |
| 2437MHz | Pass   | PK   | 4.88786G     | 44.55             | 74.00             | -29.45         | 4.31           | 3           | Vertical   | 360            | 1.50          | -        |
| 2452MHz | Pass   | AV   | 2.3888G      | 48.10             | 54.00             | -5.90          | 32.94          | 3           | Vertical   | 0              | 1.50          | -        |
| 2452MHz | Pass   | AV   | 2.4572G      | 90.53             | Inf               | -Inf           | 33.20          | 3           | Vertical   | 0              | 1.50          | -        |
| 2452MHz | Pass   | AV   | 2.4848G      | 50.89             | 54.00             | -3.11          | 33.30          | 3           | Vertical   | 0              | 1.50          | -        |
| 2452MHz | Pass   | PK   | 2.3724G      | 58.78             | 74.00             | -15.22         | 32.88          | 3           | Vertical   | 0              | 1.50          | -        |
| 2452MHz | Pass   | PK   | 2.4588G      | 98.26             | Inf               | -Inf           | 33.20          | 3           | Vertical   | 0              | 1.50          | -        |
| 2452MHz | Pass   | PK   | 2.486G       | 61.39             | 74.00             | -12.61         | 33.31          | 3           | Vertical   | 0              | 1.50          | -        |
| 2452MHz | Pass   | AV   | 4.91894G     | 34.72             | 54.00             | -19.28         | 4.39           | 3           | Horizontal | 360            | 1.50          | -        |
| 2452MHz | Pass   | PK   | 4.89746G     | 45.74             | 74.00             | -28.26         | 4.33           | 3           | Horizontal | 360            | 1.50          | -        |
| 2452MHz | Pass   | AV   | 4.92328G     | 34.71             | 54.00             | -19.29         | 4.40           | 3           | Vertical   | 0              | 1.50          | -        |
| 2452MHz | Pass   | PK   | 4.91592G     | 45.10             | 74.00             | -28.90         | 4.38           | 3           | Vertical   | 0              | 1.50          | -        |

## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

## 2412MHz\_TX

29/11/2017

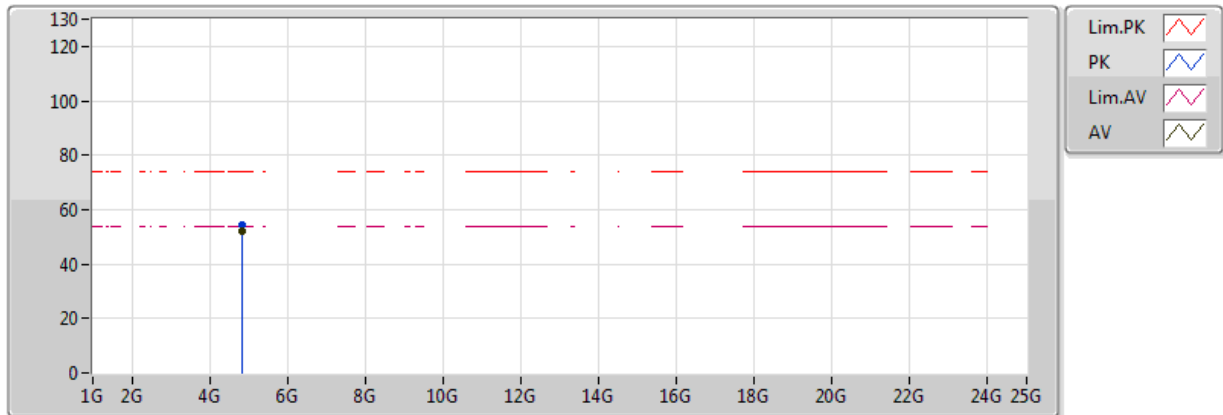


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.3858G      | 49.41             | 54.00             | -4.59          | 32.93          | 3           | Vertical  | 295            | 1.50          | -        | 16.48         | 27.20      | 5.72       | -          |
| AV   | 2.411G       | 99.11             | Inf               | -Inf           | 33.02          | 3           | Vertical  | 295            | 1.50          | -        | 66.09         | 27.27      | 5.75       | -          |
| PK   | 2.3828G      | 59.01             | 74.00             | -14.99         | 32.92          | 3           | Vertical  | 295            | 1.50          | -        | 26.09         | 27.20      | 5.72       | -          |
| PK   | 2.412G       | 102.59            | Inf               | -Inf           | 33.03          | 3           | Vertical  | 295            | 1.50          | -        | 69.57         | 27.27      | 5.75       | -          |

## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

## 2412MHz\_TX

28/11/2017

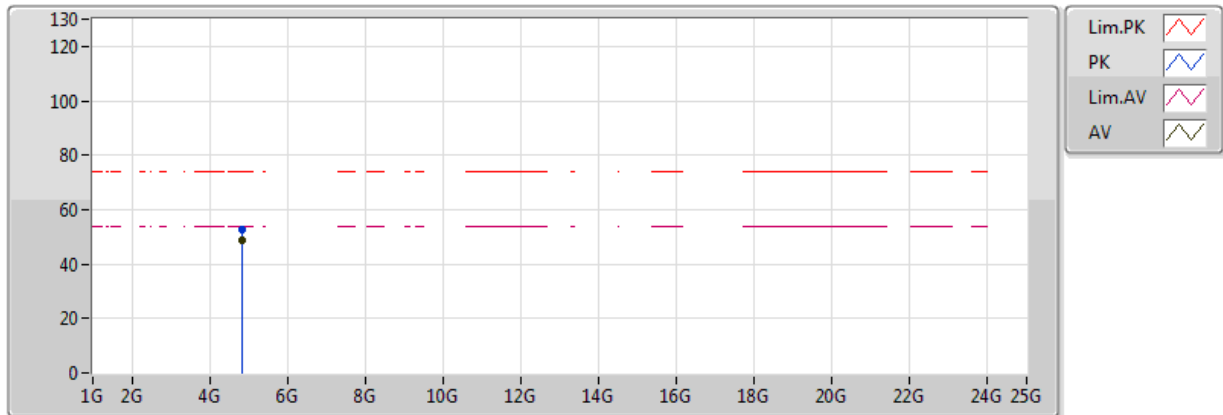


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.824G       | 52.01             | 54.00             | -1.99          | 4.15           | 3           | Vertical  | 283            | 1.84          | -        | 47.86         | 31.22      | 8.11       | 35.18      |
| PK   | 4.82404G     | 54.39             | 74.00             | -19.61         | 4.15           | 3           | Vertical  | 283            | 1.84          | -        | 50.24         | 31.22      | 8.11       | 35.18      |

### 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

### 2412MHz\_TX

28/11/2017

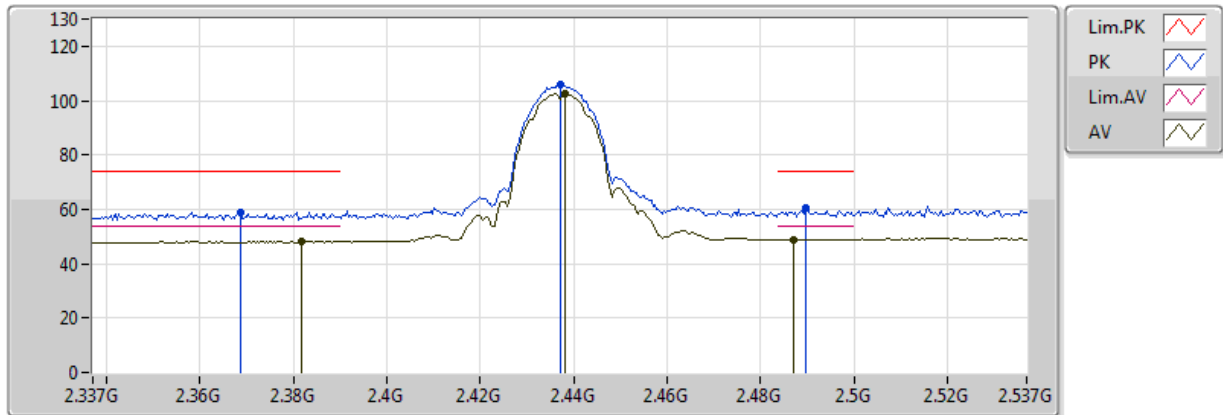


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.82404G     | 48.72             | 54.00             | -5.28          | 4.15           | 3           | Horizontal | 147            | 3.69          | -        | 44.57         | 31.22      | 8.11       | 35.18      |
| PK   | 4.82408G     | 52.56             | 74.00             | -21.44         | 4.15           | 3           | Horizontal | 147            | 3.69          | -        | 48.41         | 31.22      | 8.11       | 35.18      |

## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

## 2437MHz\_TX

28/11/2017

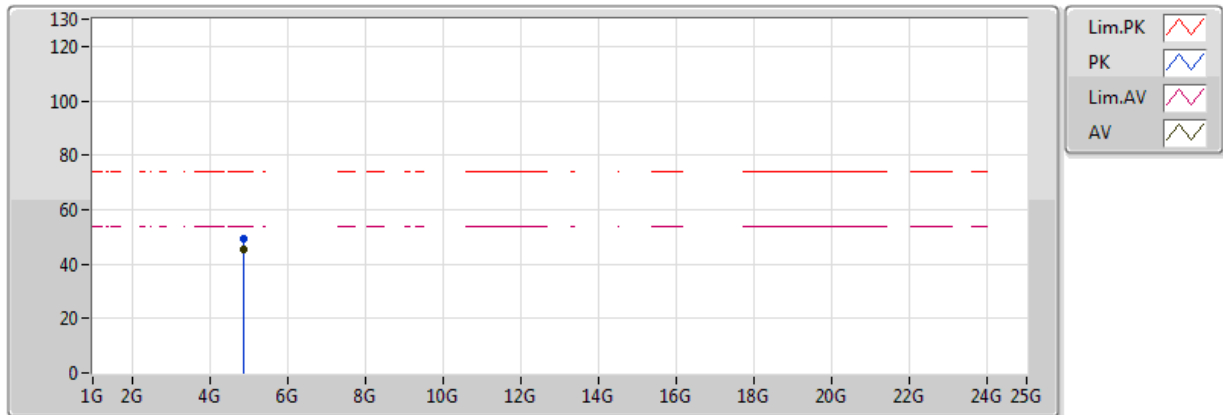


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.3818G      | 48.08             | 54.00             | -5.92          | 32.91          | 3           | Vertical  | 292            | 2.47          | -        | 15.17         | 27.19      | 5.72       | -          |
| AV   | 2.4382G      | 102.59            | Inf               | -Inf           | 33.13          | 3           | Vertical  | 292            | 2.47          | -        | 69.47         | 27.34      | 5.79       | -          |
| AV   | 2.487G       | 49.03             | 54.00             | -4.97          | 33.31          | 3           | Vertical  | 292            | 2.47          | -        | 15.72         | 27.47      | 5.84       | -          |
| PK   | 2.3686G      | 59.06             | 74.00             | -14.94         | 32.86          | 3           | Vertical  | 292            | 2.47          | -        | 26.20         | 27.16      | 5.71       | -          |
| PK   | 2.437G       | 105.86            | Inf               | -Inf           | 33.12          | 3           | Vertical  | 292            | 2.47          | -        | 72.74         | 27.34      | 5.78       | -          |
| PK   | 2.4898G      | 60.46             | 74.00             | -13.54         | 33.32          | 3           | Vertical  | 292            | 2.47          | -        | 27.14         | 27.47      | 5.85       | -          |

## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

## 2437MHz\_TX

28/11/2017

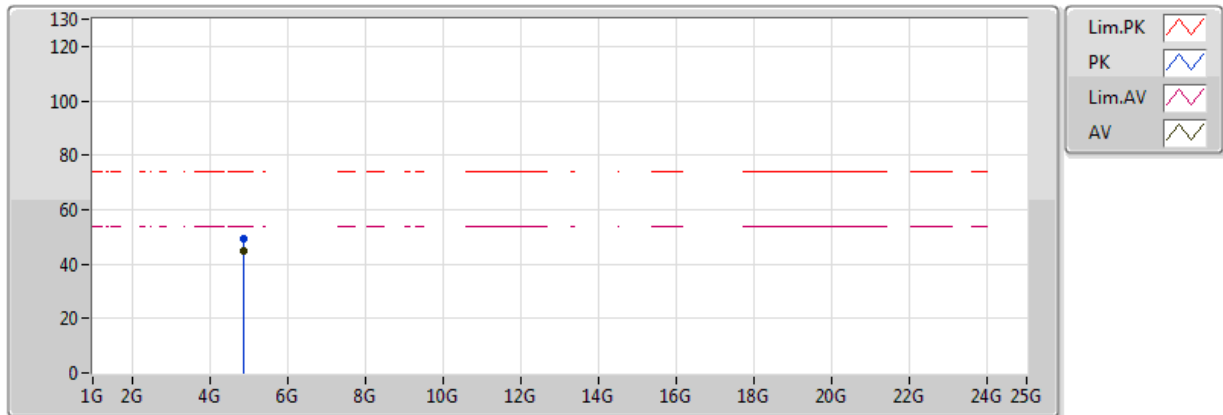


| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.87404G | 45.52    | 54.00    | -8.48  | 4.28   | 3    | Vertical  | 285     | 1.96   | -        | 41.24  | 31.30 | 8.17 | 35.19 |
| PK   | 4.87388G | 49.28    | 74.00    | -24.72 | 4.27   | 3    | Vertical  | 285     | 1.96   | -        | 45.01  | 31.30 | 8.17 | 35.19 |

### 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

### 2437MHz\_TX

28/11/2017

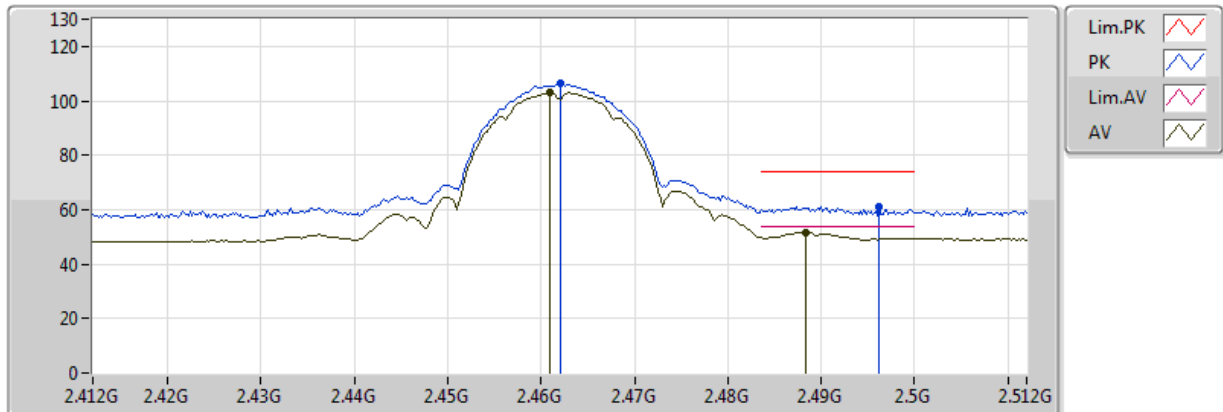


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.87404G     | 44.77             | 54.00             | -9.23          | 4.28           | 3           | Horizontal | 146            | 3.59          | -        | 40.49         | 31.30      | 8.17       | 35.19      |
| PK   | 4.87416G     | 49.26             | 74.00             | -24.74         | 4.28           | 3           | Horizontal | 146            | 3.59          | -        | 44.98         | 31.30      | 8.17       | 35.19      |

## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

## 2462MHz\_TX

28/11/2017

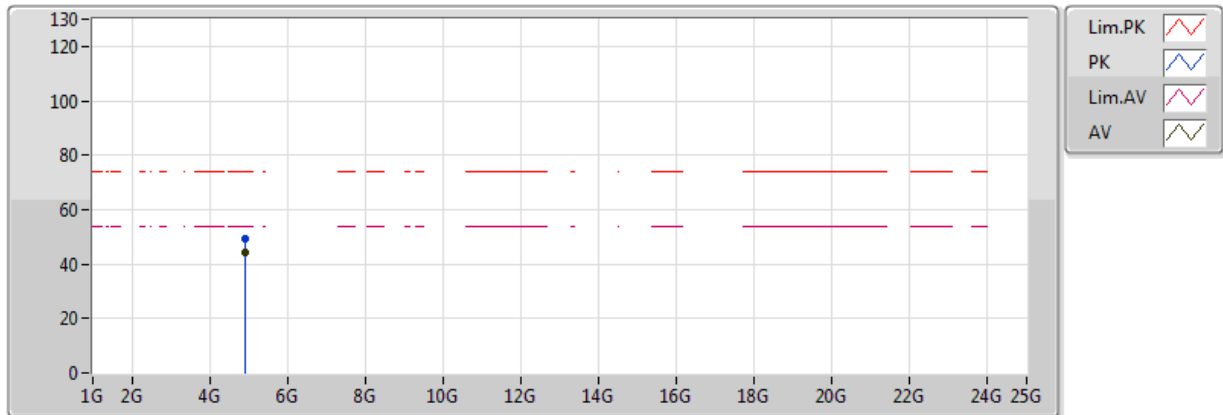


| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA   |
|------|---------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.461G  | 102.92   | Inf      | -Inf   | 33.21  | 3    | Vertical  | 291     | 2.40   | -        | 69.71  | 27.40 | 5.81 | -    |
| AV   | 2.4884G | 51.76    | 54.00    | -2.24  | 33.32  | 3    | Vertical  | 291     | 2.40   | -        | 18.45  | 27.47 | 5.85 | -    |
| PK   | 2.462G  | 106.36   | Inf      | -Inf   | 33.22  | 3    | Vertical  | 291     | 2.40   | -        | 73.15  | 27.40 | 5.81 | -    |
| PK   | 2.4962G | 61.30    | 74.00    | -12.70 | 33.35  | 3    | Vertical  | 291     | 2.40   | -        | 27.96  | 27.49 | 5.86 | -    |

## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

## 2462MHz\_TX

28/11/2017

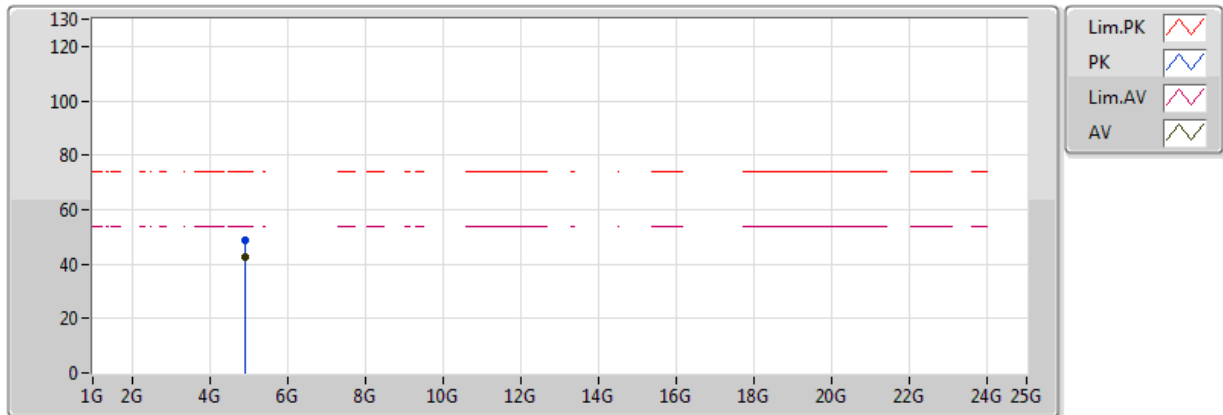


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.92406G     | 44.05             | 54.00             | -9.95          | 4.40           | 3           | Vertical  | 185            | 3.65          | -        | 39.65         | 31.38      | 8.23       | 35.20      |
| PK   | 4.9242G      | 49.49             | 74.00             | -24.51         | 4.40           | 3           | Vertical  | 185            | 3.65          | -        | 45.09         | 31.38      | 8.23       | 35.20      |

### 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

### 2462MHz\_TX

28/11/2017

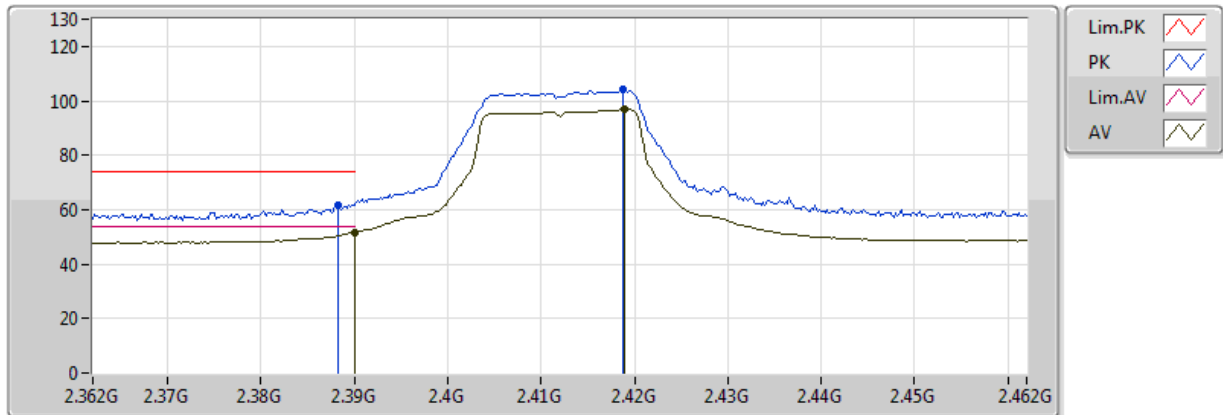


| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.924G   | 42.70    | 54.00    | -11.30 | 4.40   | 3    | Horizontal | 145     | 3.69   | -        | 38.30  | 31.38 | 8.23 | 35.20 |
| PK   | 4.92392G | 48.78    | 74.00    | -25.22 | 4.40   | 3    | Horizontal | 145     | 3.69   | -        | 44.38  | 31.38 | 8.23 | 35.20 |

### 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

### 2412MHz\_TX

28/11/2017

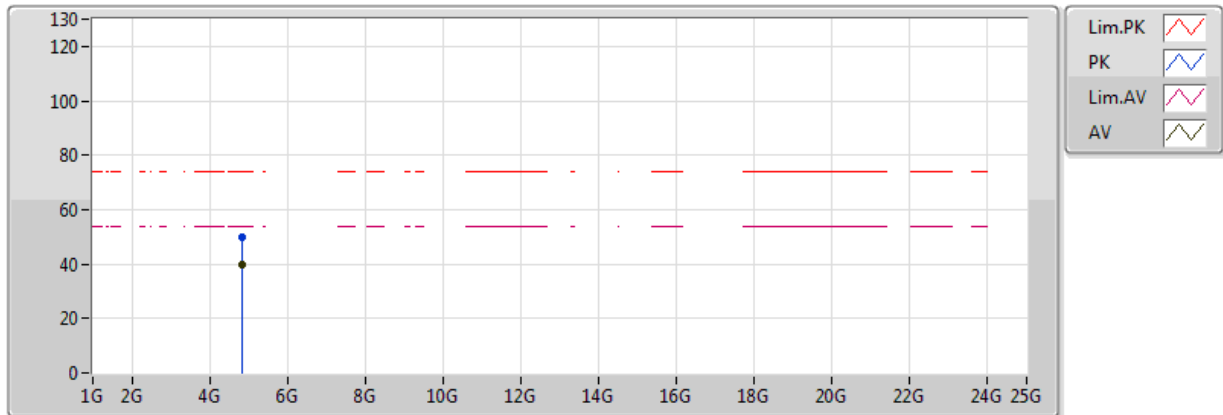


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.39G        | 51.65             | 54.00             | -2.35          | 32.94          | 3           | Vertical  | 291            | 2.22          | -        | 18.71         | 27.21      | 5.73       | -          |
| AV   | 2.419G       | 96.72             | Inf               | -Inf           | 33.05          | 3           | Vertical  | 291            | 2.22          | -        | 63.67         | 27.29      | 5.76       | -          |
| PK   | 2.3882G      | 61.91             | 74.00             | -12.09         | 32.94          | 3           | Vertical  | 291            | 2.22          | -        | 28.97         | 27.21      | 5.73       | -          |
| PK   | 2.4188G      | 103.96            | Inf               | -Inf           | 33.05          | 3           | Vertical  | 291            | 2.22          | -        | 70.91         | 27.29      | 5.76       | -          |

## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

## 2412MHz\_TX

28/11/2017

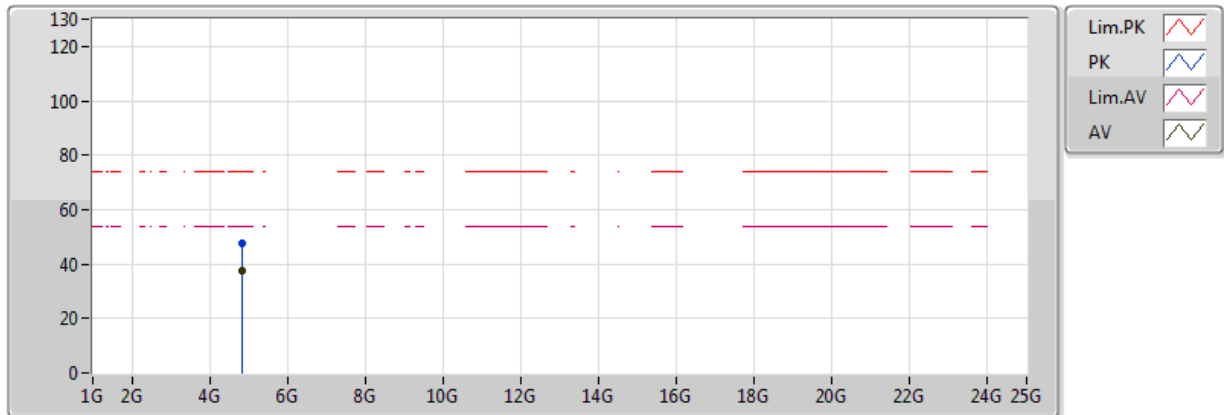


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.82416G     | 39.96             | 54.00             | -14.04         | 4.15           | 3           | Vertical  | 279            | 3.25          | -        | 35.81         | 31.22      | 8.11       | 35.18      |
| PK   | 4.82436G     | 49.74             | 74.00             | -24.26         | 4.15           | 3           | Vertical  | 279            | 3.25          | -        | 45.59         | 31.22      | 8.11       | 35.18      |

## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

## 2412MHz\_TX

28/11/2017

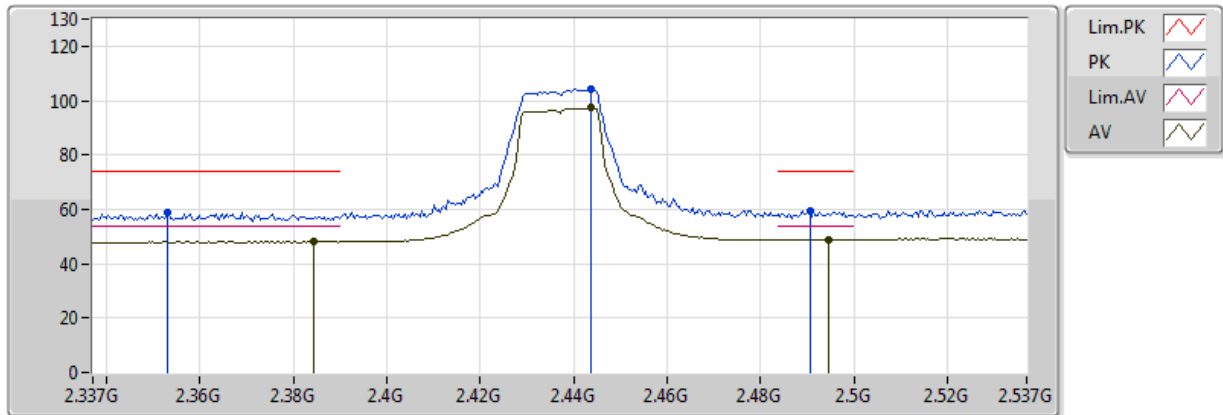


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.82416G     | 37.45             | 54.00             | -16.55         | 4.15           | 3           | Horizontal | 142            | 3.69          | -        | 33.30         | 31.22      | 8.11       | 35.18      |
| PK   | 4.82392G     | 47.63             | 74.00             | -26.37         | 4.15           | 3           | Horizontal | 142            | 3.69          | -        | 43.48         | 31.22      | 8.11       | 35.18      |

## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

## 2437MHz\_TX

28/11/2017

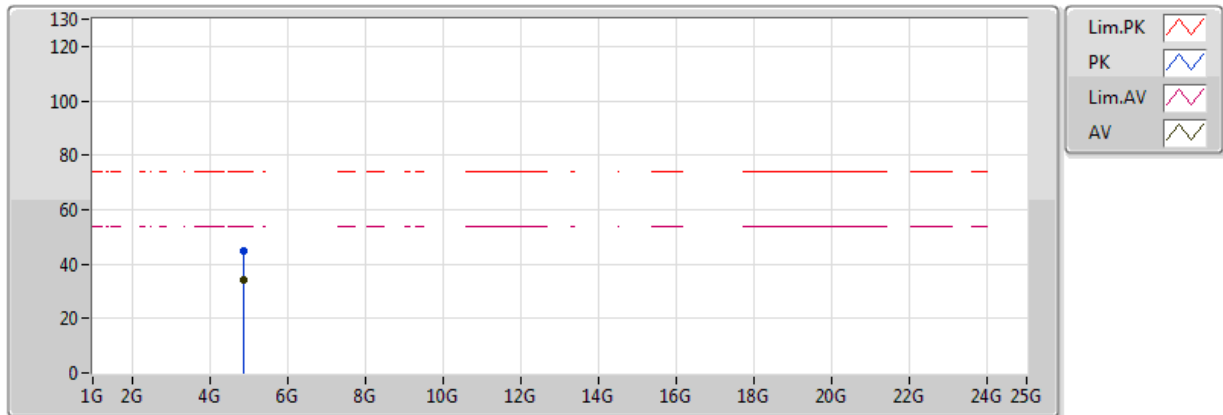


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.3842G      | 48.13             | 54.00             | -5.87          | 32.92          | 3           | Vertical  | 289            | 2.50          | -        | 15.21         | 27.20      | 5.72       | -          |
| AV   | 2.4438G      | 97.25             | Inf               | -Inf           | 33.15          | 3           | Vertical  | 289            | 2.50          | -        | 64.11         | 27.35      | 5.79       | -          |
| AV   | 2.4946G      | 48.96             | 54.00             | -5.04          | 33.34          | 3           | Vertical  | 289            | 2.50          | -        | 15.62         | 27.49      | 5.85       | -          |
| PK   | 2.353G       | 58.79             | 74.00             | -15.21         | 32.81          | 3           | Vertical  | 289            | 2.50          | -        | 25.99         | 27.12      | 5.69       | -          |
| PK   | 2.4438G      | 104.49            | Inf               | -Inf           | 33.15          | 3           | Vertical  | 289            | 2.50          | -        | 71.35         | 27.35      | 5.79       | -          |
| PK   | 2.4906G      | 59.58             | 74.00             | -14.42         | 33.32          | 3           | Vertical  | 289            | 2.50          | -        | 26.25         | 27.48      | 5.85       | -          |

### 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

### 2437MHz\_TX

28/11/2017

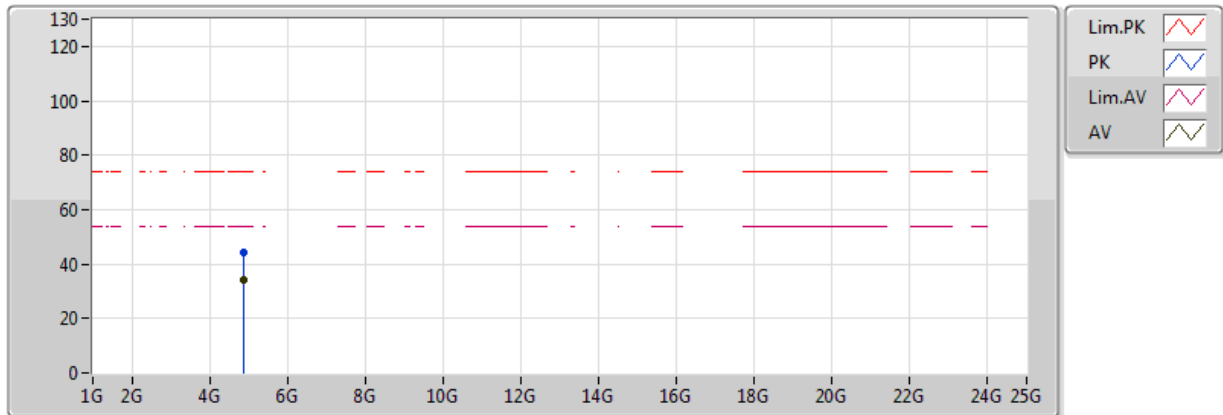


| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.87412G | 34.44    | 54.00    | -19.56 | 4.28   | 3    | Vertical  | 360     | 1.50   | -        | 30.17  | 31.30 | 8.17 | 35.19 |
| PK   | 4.883G   | 44.72    | 74.00    | -29.28 | 4.30   | 3    | Vertical  | 360     | 1.50   | -        | 40.42  | 31.31 | 8.18 | 35.19 |

### 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

### 2437MHz\_TX

28/11/2017

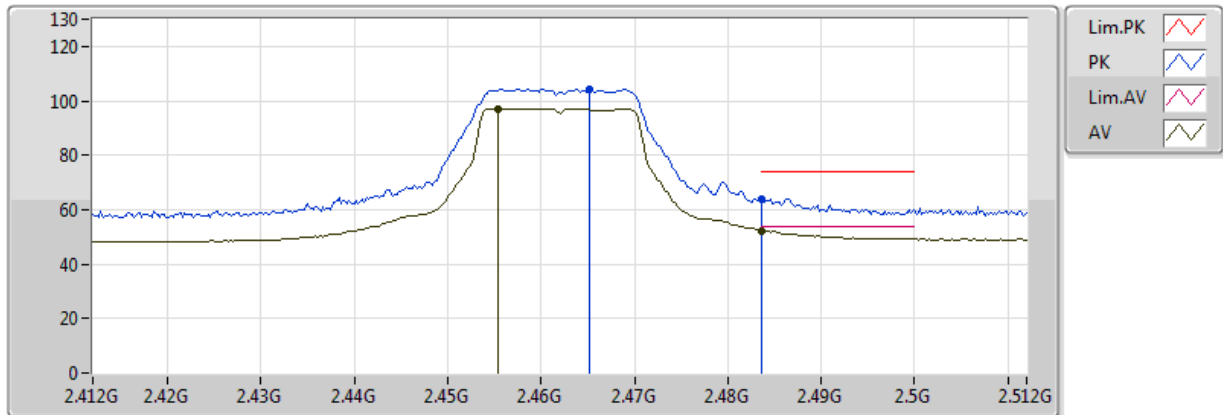


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.88696G     | 34.23             | 54.00             | -19.77         | 4.31           | 3           | Horizontal | 0              | 1.50          | -        | 29.93         | 31.32      | 8.18       | 35.20      |
| PK   | 4.86482G     | 44.29             | 74.00             | -29.71         | 4.25           | 3           | Horizontal | 0              | 1.50          | -        | 40.04         | 31.28      | 8.16       | 35.19      |

### 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

### 2462MHz\_TX

28/11/2017

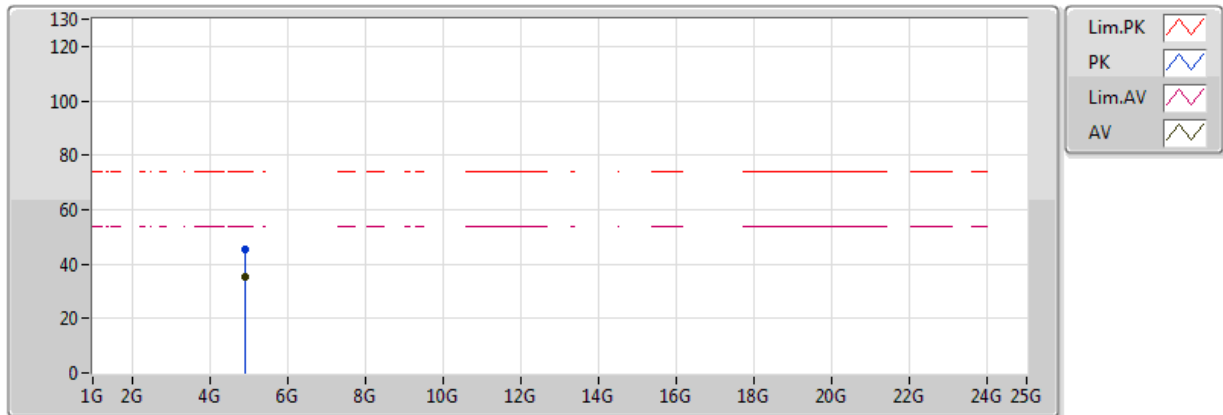


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.4554G      | 97.05             | Inf               | -Inf           | 33.19          | 3           | Vertical  | 290            | 2.39          | -        | 63.85         | 27.38      | 5.81       | -          |
| AV   | 2.4836G      | 52.28             | 54.00             | -1.72          | 33.30          | 3           | Vertical  | 290            | 2.39          | -        | 18.98         | 27.46      | 5.84       | -          |
| PK   | 2.4652G      | 104.30            | Inf               | -Inf           | 33.23          | 3           | Vertical  | 290            | 2.39          | -        | 71.08         | 27.41      | 5.82       | -          |
| PK   | 2.4836G      | 64.00             | 74.00             | -10.00         | 33.30          | 3           | Vertical  | 290            | 2.39          | -        | 30.70         | 27.46      | 5.84       | -          |

## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

## 2462MHz\_TX

28/11/2017

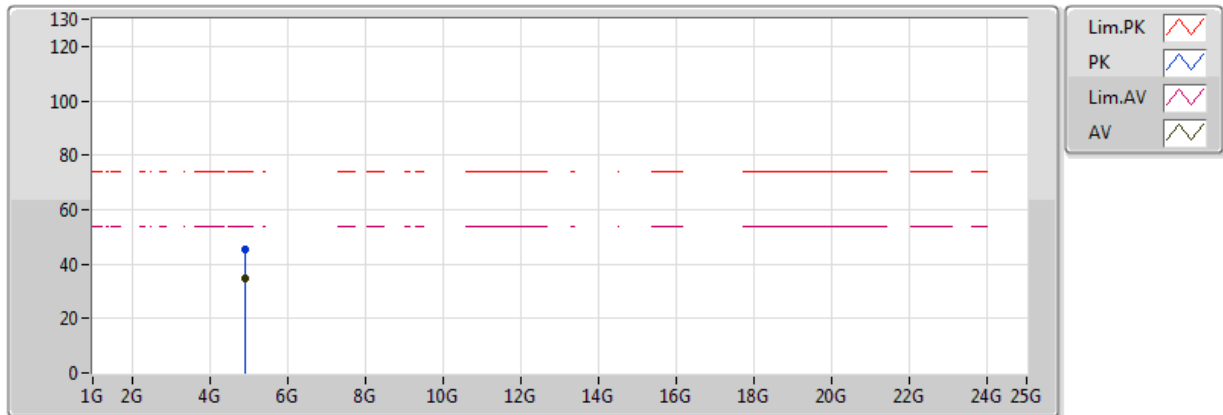


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.92394G     | 35.19             | 54.00             | -18.81         | 4.40           | 3           | Vertical  | 0              | 1.50          | -        | 30.79         | 31.38      | 8.23       | 35.20      |
| PK   | 4.92748G     | 45.34             | 74.00             | -28.66         | 4.41           | 3           | Vertical  | 0              | 1.50          | -        | 40.93         | 31.38      | 8.23       | 35.21      |

### 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

### 2462MHz\_TX

28/11/2017

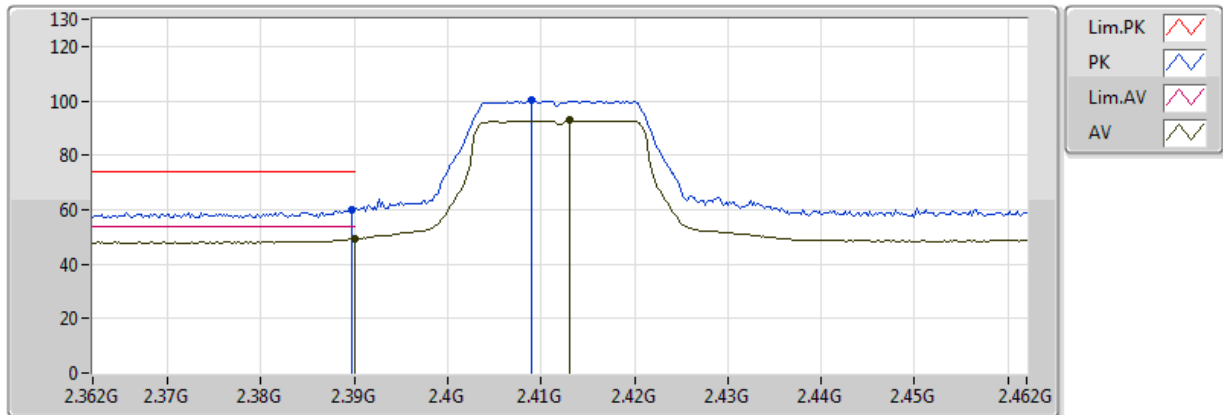


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.93324G     | 35.00             | 54.00             | -19.00         | 4.42           | 3           | Horizontal | 360            | 1.50          | -        | 30.58         | 31.39      | 8.24       | 35.21      |
| PK   | 4.93462G     | 45.21             | 74.00             | -28.79         | 4.43           | 3           | Horizontal | 360            | 1.50          | -        | 40.79         | 31.40      | 8.24       | 35.21      |

### 802.11n HT20\_Nss1,(MCS0)\_2TX

### 2412MHz\_TX

28/11/2017

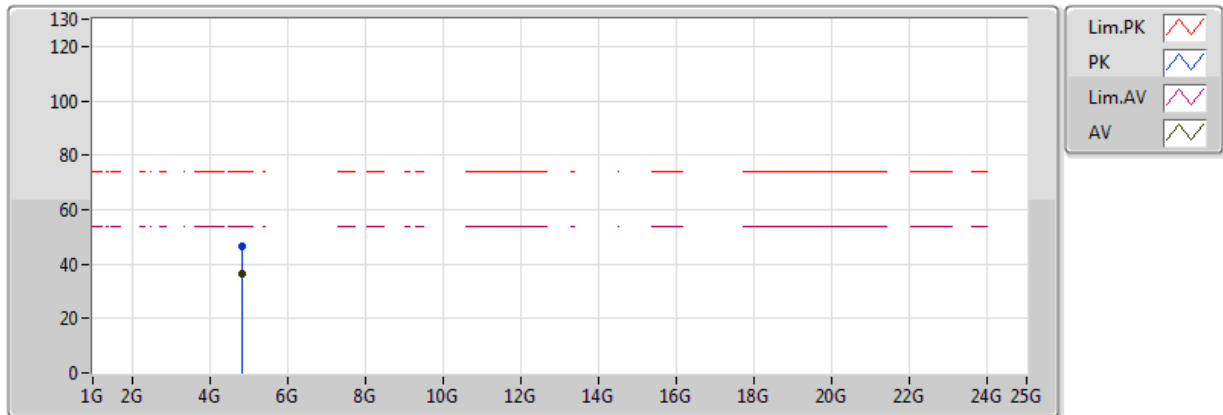


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.39G        | 49.48             | 54.00             | -4.52          | 32.94          | 3           | Vertical  | 360            | 1.50          | -        | 16.54         | 27.21      | 5.73       | -          |
| AV   | 2.413G       | 92.74             | Inf               | -Inf           | 33.03          | 3           | Vertical  | 360            | 1.50          | -        | 59.71         | 27.27      | 5.76       | -          |
| PK   | 2.3898G      | 60.06             | 74.00             | -13.94         | 32.94          | 3           | Vertical  | 360            | 1.50          | -        | 27.12         | 27.21      | 5.73       | -          |
| PK   | 2.409G       | 100.51            | Inf               | -Inf           | 33.01          | 3           | Vertical  | 360            | 1.50          | -        | 67.50         | 27.26      | 5.75       | -          |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

## 2412MHz\_TX

28/11/2017

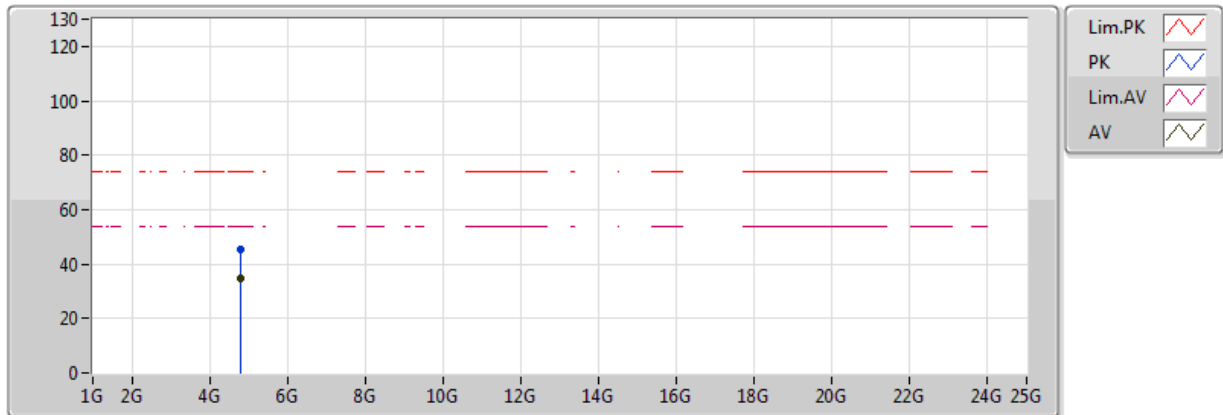


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.82408G     | 36.41             | 54.00             | -17.59         | 4.15           | 3           | Vertical  | 0              | 1.50          | -        | 32.26         | 31.22      | 8.11       | 35.18      |
| PK   | 4.82198G     | 46.40             | 74.00             | -27.60         | 4.14           | 3           | Vertical  | 0              | 1.50          | -        | 42.26         | 31.22      | 8.11       | 35.18      |

### 802.11n HT20\_Nss1,(MCS0)\_2TX

### 2412MHz\_TX

28/11/2017

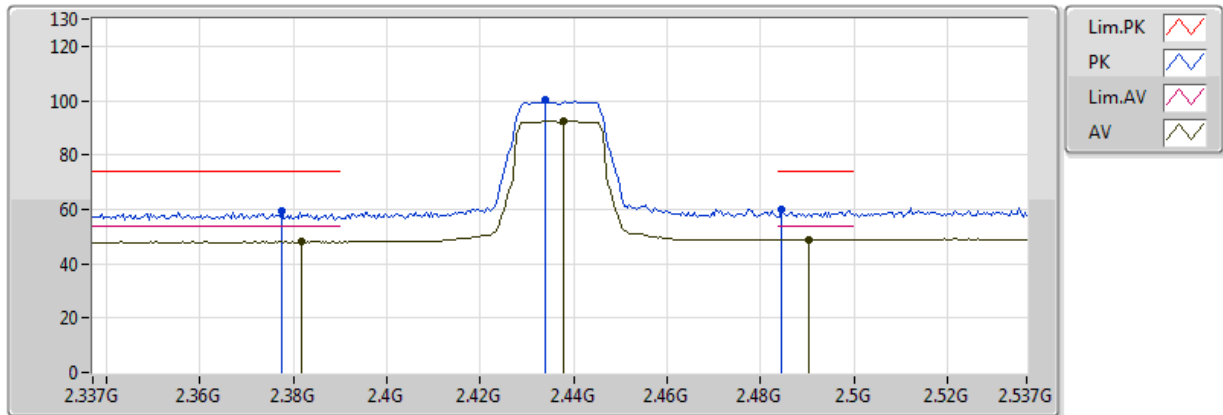


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.8105G      | 34.83             | 54.00             | -19.17         | 4.12           | 3           | Horizontal | 360            | 1.50          | -        | 30.72         | 31.20      | 8.09       | 35.17      |
| PK   | 4.80906G     | 45.17             | 74.00             | -28.83         | 4.11           | 3           | Horizontal | 360            | 1.50          | -        | 41.06         | 31.19      | 8.09       | 35.17      |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

## 2437MHz\_TX

28/11/2017

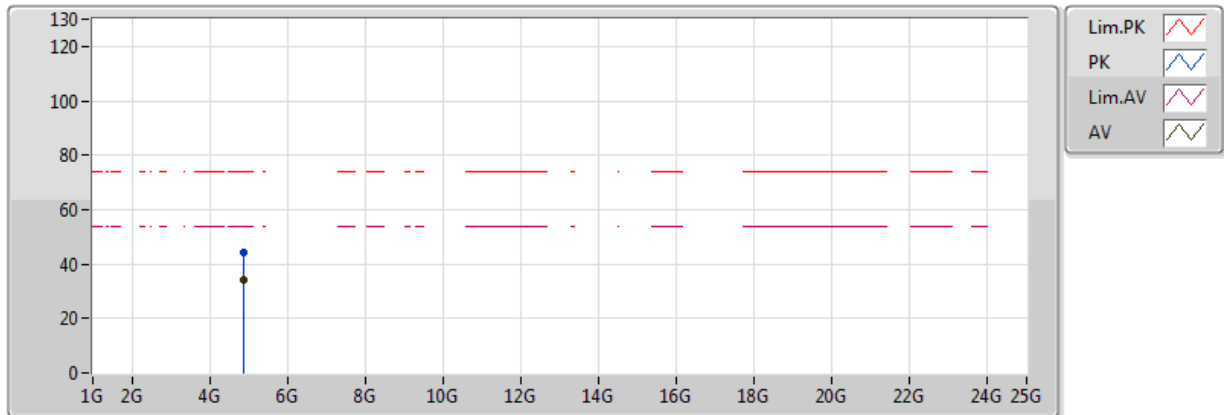


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.3818G      | 48.10             | 54.00             | -5.90          | 32.91          | 3           | Vertical  | 360            | 1.50          | -        | 15.18         | 27.19      | 5.72       | -          |
| AV   | 2.4378G      | 92.54             | Inf               | -Inf           | 33.12          | 3           | Vertical  | 360            | 1.50          | -        | 59.42         | 27.34      | 5.79       | -          |
| AV   | 2.4902G      | 48.97             | 54.00             | -5.03          | 33.32          | 3           | Vertical  | 360            | 1.50          | -        | 15.65         | 27.47      | 5.85       | -          |
| PK   | 2.3774G      | 59.15             | 74.00             | -14.85         | 32.90          | 3           | Vertical  | 360            | 1.50          | -        | 26.25         | 27.18      | 5.72       | -          |
| PK   | 2.4338G      | 100.33            | Inf               | -Inf           | 33.11          | 3           | Vertical  | 360            | 1.50          | -        | 67.22         | 27.33      | 5.78       | -          |
| PK   | 2.4846G      | 59.97             | 74.00             | -14.03         | 33.30          | 3           | Vertical  | 360            | 1.50          | -        | 26.66         | 27.46      | 5.84       | -          |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

## 2437MHz\_TX

28/11/2017

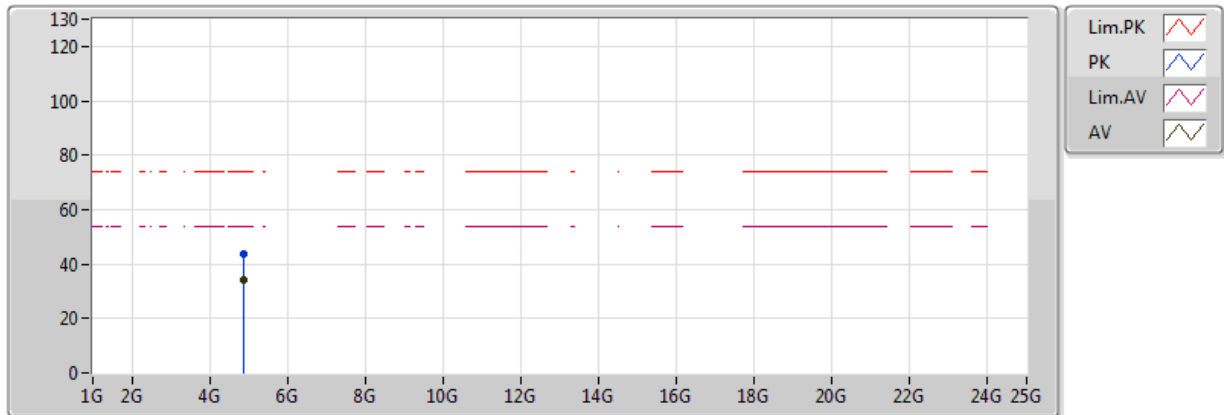


| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.88304G | 34.07    | 54.00    | -19.93 | 4.30   | 3    | Vertical  | 0       | 1.50   | -        | 29.78  | 31.31 | 8.18 | 35.19 |
| PK   | 4.88392G | 44.36    | 74.00    | -29.64 | 4.30   | 3    | Vertical  | 0       | 1.50   | -        | 40.06  | 31.31 | 8.18 | 35.20 |

### 802.11n HT20\_Nss1,(MCS0)\_2TX

### 2437MHz\_TX

28/11/2017

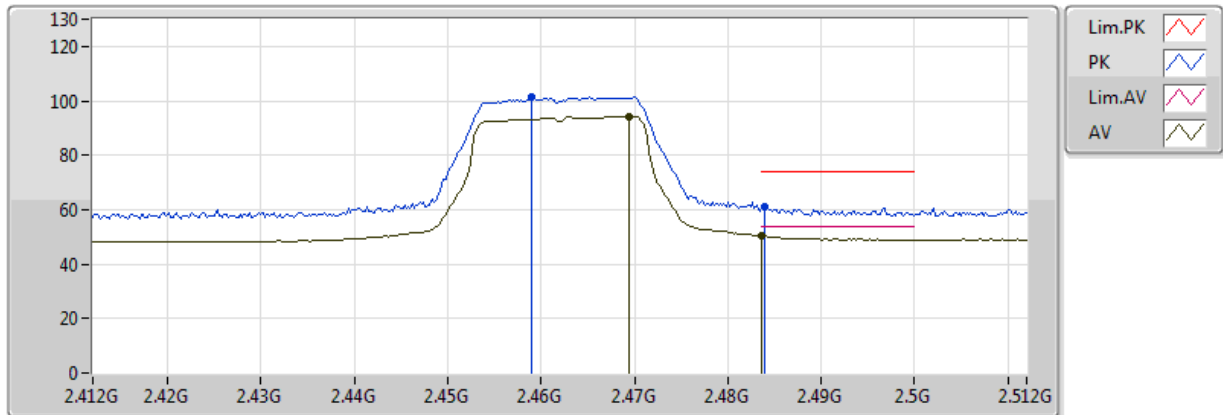


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.88304G     | 33.94             | 54.00             | -20.06         | 4.30           | 3           | Horizontal | 360            | 1.50          | -        | 29.64         | 31.31      | 8.18       | 35.19      |
| PK   | 4.8772G      | 43.98             | 74.00             | -30.02         | 4.28           | 3           | Horizontal | 360            | 1.50          | -        | 39.70         | 31.30      | 8.17       | 35.19      |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

## 2462MHz\_TX

28/11/2017

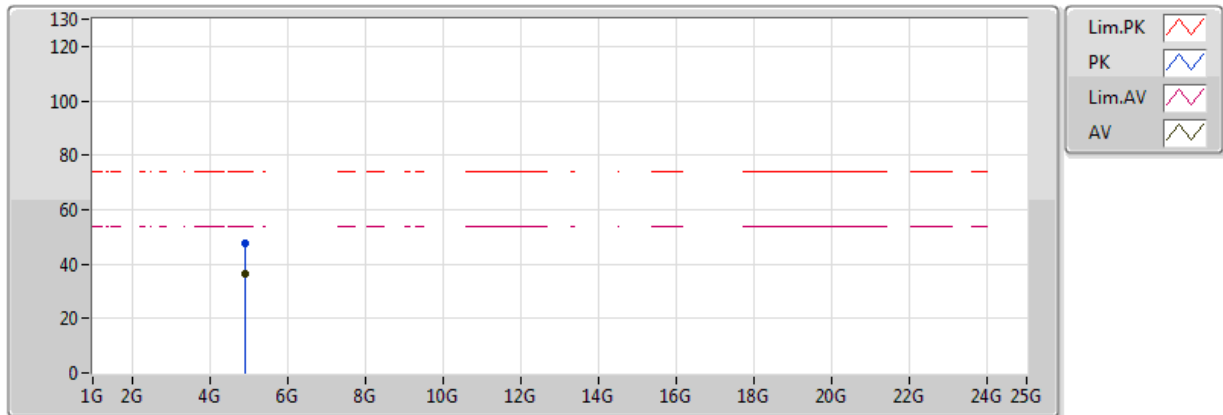


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.4694G      | 94.19             | Inf               | -Inf           | 33.24          | 3           | Vertical  | 108            | 3.69          | -        | 60.95         | 27.42      | 5.82       | -          |
| AV   | 2.4836G      | 50.29             | 54.00             | -3.71          | 33.30          | 3           | Vertical  | 108            | 3.69          | -        | 16.99         | 27.46      | 5.84       | -          |
| PK   | 2.459G       | 101.28            | Inf               | -Inf           | 33.20          | 3           | Vertical  | 108            | 3.69          | -        | 68.08         | 27.39      | 5.81       | -          |
| PK   | 2.484G       | 60.98             | 74.00             | -13.02         | 33.30          | 3           | Vertical  | 108            | 3.69          | -        | 27.68         | 27.46      | 5.84       | -          |

### 802.11n HT20\_Nss1,(MCS0)\_2TX

### 2462MHz\_TX

28/11/2017

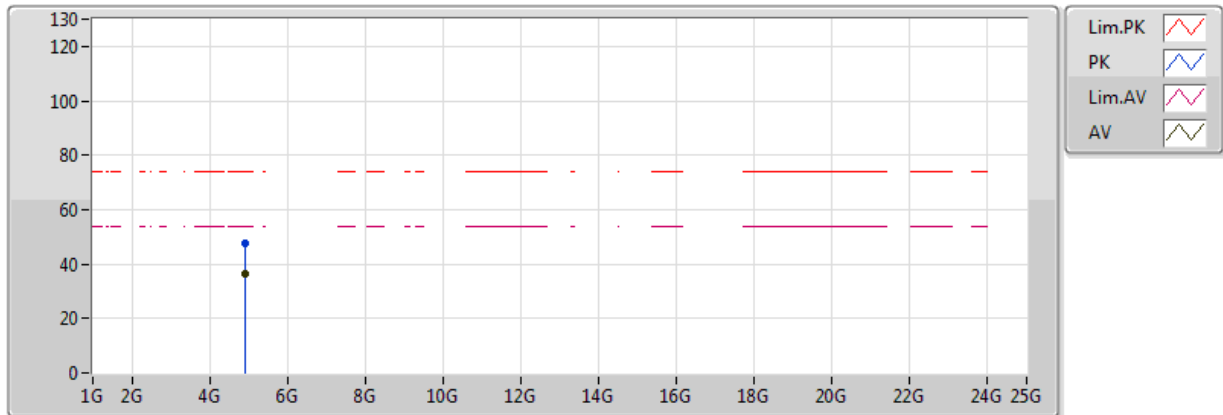


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.92376G     | 36.47             | 54.00             | -17.53         | 4.40           | 3           | Vertical  | 0              | 1.50          | -        | 32.07         | 31.38      | 8.23       | 35.20      |
| PK   | 4.92928G     | 47.88             | 74.00             | -26.12         | 4.41           | 3           | Vertical  | 0              | 1.50          | -        | 43.46         | 31.39      | 8.23       | 35.21      |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

### 2462MHz\_TX

28/11/2017

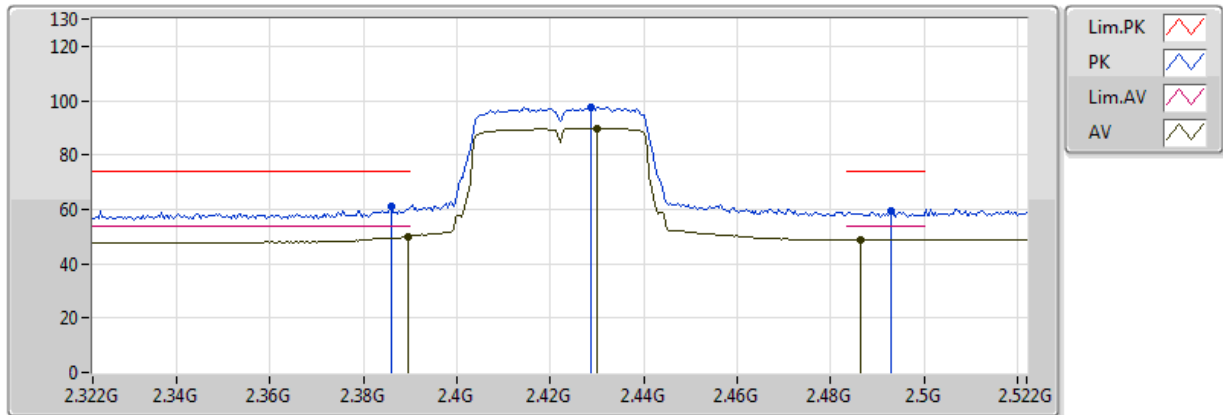


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.92956G     | 36.37             | 54.00             | -17.63         | 4.41           | 3           | Horizontal | 360            | 1.50          | -        | 31.96         | 31.39      | 8.23       | 35.21      |
| PK   | 4.92324G     | 47.76             | 74.00             | -26.24         | 4.40           | 3           | Horizontal | 360            | 1.50          | -        | 43.37         | 31.38      | 8.23       | 35.20      |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

## 2422MHz\_TX

28/11/2017

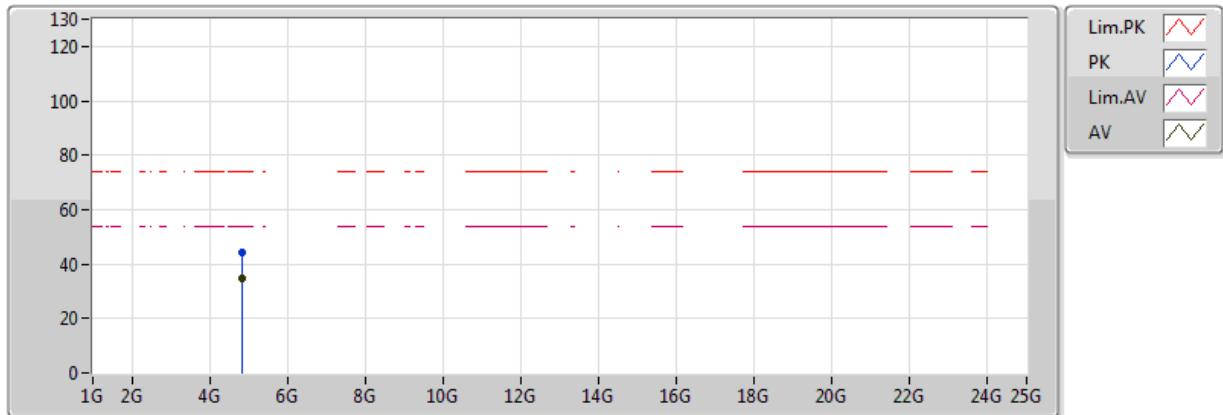


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.3896G      | 50.14             | 54.00             | -3.86          | 32.94          | 3           | Vertical  | 2              | 1.50          | -        | 17.20         | 27.21      | 5.73       | -          |
| AV   | 2.43G        | 89.92             | Inf               | -Inf           | 33.09          | 3           | Vertical  | 2              | 1.50          | -        | 56.82         | 27.32      | 5.78       | -          |
| AV   | 2.4864G      | 48.99             | 54.00             | -5.01          | 33.31          | 3           | Vertical  | 2              | 1.50          | -        | 15.68         | 27.46      | 5.84       | -          |
| PK   | 2.386G       | 61.34             | 74.00             | -12.66         | 32.93          | 3           | Vertical  | 2              | 1.50          | -        | 28.41         | 27.20      | 5.72       | -          |
| PK   | 2.4288G      | 97.72             | Inf               | -Inf           | 33.09          | 3           | Vertical  | 2              | 1.50          | -        | 64.63         | 27.31      | 5.77       | -          |
| PK   | 2.4928G      | 59.46             | 74.00             | -14.54         | 33.33          | 3           | Vertical  | 2              | 1.50          | -        | 26.13         | 27.48      | 5.85       | -          |

### 802.11n HT40\_Nss1,(MCS0)\_2TX

### 2422MHz\_TX

28/11/2017

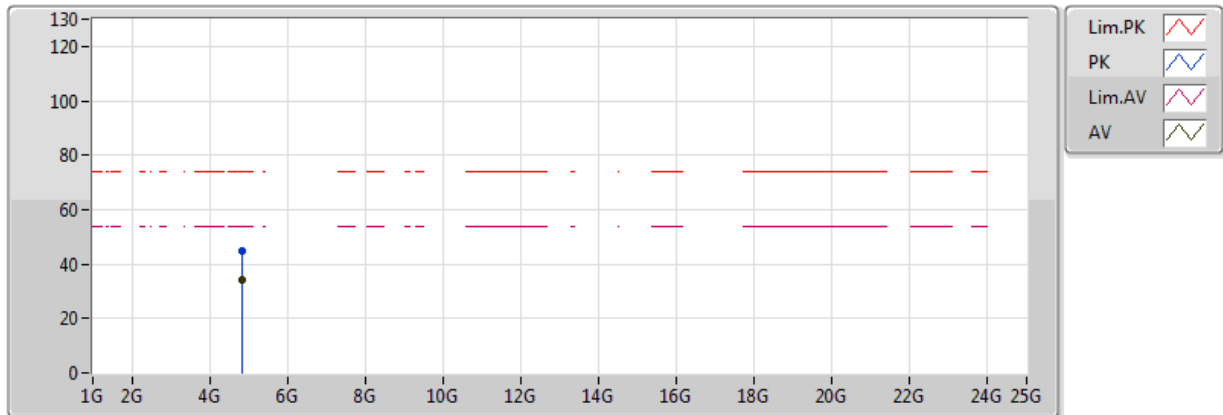


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.84388G     | 34.87             | 54.00             | -19.13         | 4.20           | 3           | Vertical  | 0              | 1.50          | -        | 30.67         | 31.25      | 8.13       | 35.18      |
| PK   | 4.8442G      | 44.40             | 74.00             | -29.60         | 4.20           | 3           | Vertical  | 0              | 1.50          | -        | 40.19         | 31.25      | 8.13       | 35.18      |

### 802.11n HT40\_Nss1,(MCS0)\_2TX

### 2422MHz\_TX

28/11/2017

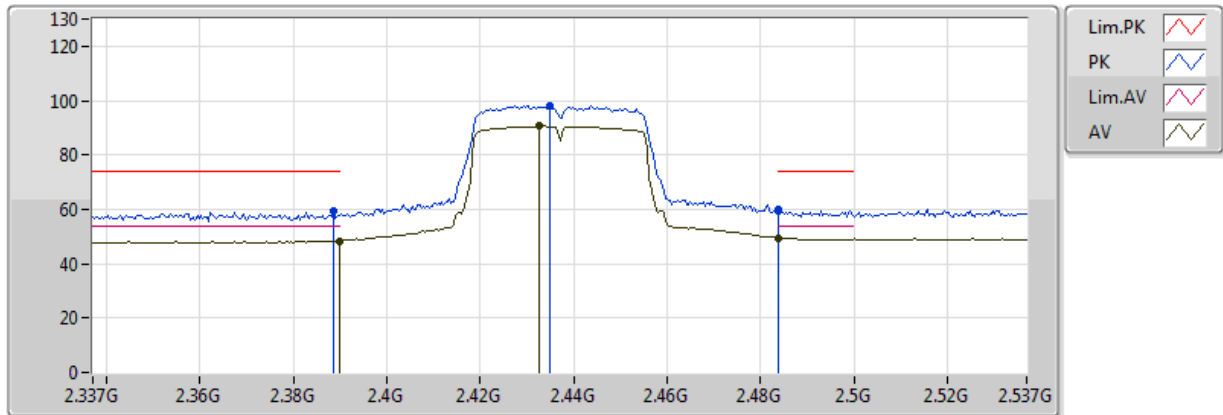


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.83556G     | 33.93             | 54.00             | -20.07         | 4.18           | 3           | Horizontal | 360            | 1.50          | -        | 29.75         | 31.24      | 8.12       | 35.18      |
| PK   | 4.83524G     | 45.06             | 74.00             | -28.94         | 4.18           | 3           | Horizontal | 360            | 1.50          | -        | 40.88         | 31.24      | 8.12       | 35.18      |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

## 2437MHz\_TX

28/11/2017

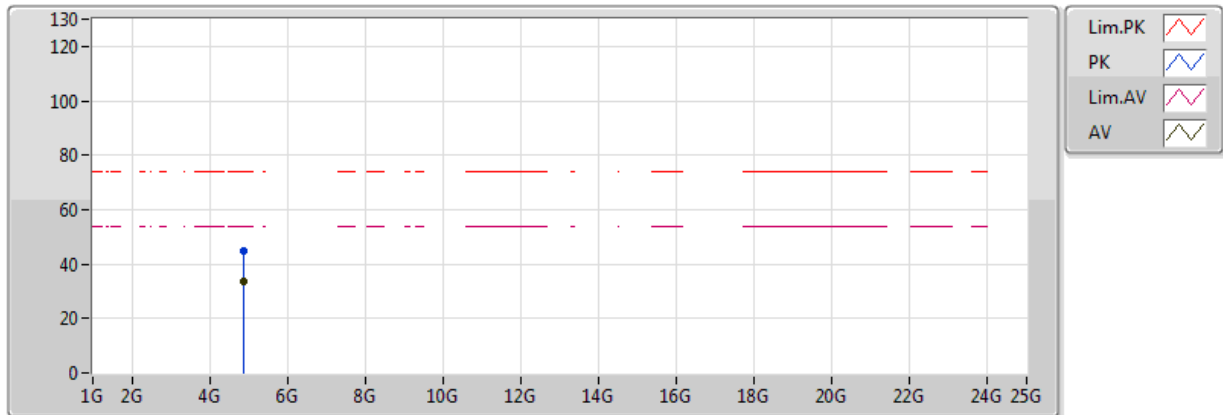


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.3898G      | 48.42             | 54.00             | -5.58          | 32.94          | 3           | Vertical  | 62             | 1.02          | -        | 15.48         | 27.21      | 5.73       | -          |
| AV   | 2.4326G      | 90.51             | Inf               | -Inf           | 33.10          | 3           | Vertical  | 62             | 1.02          | -        | 57.41         | 27.32      | 5.78       | -          |
| AV   | 2.4838G      | 49.51             | 54.00             | -4.49          | 33.30          | 3           | Vertical  | 62             | 1.02          | -        | 16.21         | 27.46      | 5.84       | -          |
| PK   | 2.3886G      | 59.25             | 74.00             | -14.75         | 32.94          | 3           | Vertical  | 62             | 1.02          | -        | 26.31         | 27.21      | 5.73       | -          |
| PK   | 2.435G       | 98.10             | Inf               | -Inf           | 33.11          | 3           | Vertical  | 62             | 1.02          | -        | 64.98         | 27.33      | 5.78       | -          |
| PK   | 2.4838G      | 59.98             | 74.00             | -14.02         | 33.30          | 3           | Vertical  | 62             | 1.02          | -        | 26.69         | 27.46      | 5.84       | -          |

### 802.11n HT40\_Nss1,(MCS0)\_2TX

### 2437MHz\_TX

28/11/2017

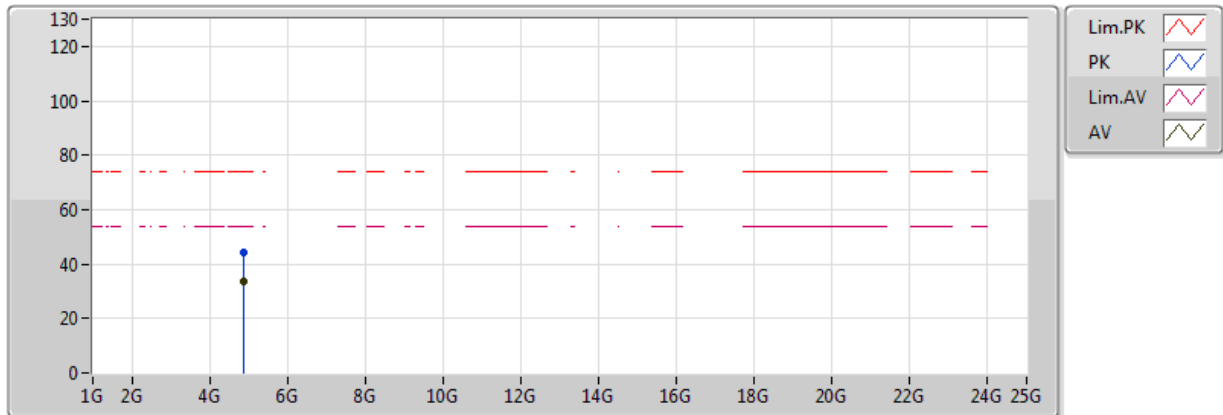


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.88576G     | 33.90             | 54.00             | -20.10         | 4.30           | 3           | Vertical  | 360            | 1.50          | -        | 29.59         | 31.32      | 8.18       | 35.20      |
| PK   | 4.88786G     | 44.55             | 74.00             | -29.45         | 4.31           | 3           | Vertical  | 360            | 1.50          | -        | 40.24         | 31.32      | 8.19       | 35.20      |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

## 2437MHz\_TX

28/11/2017

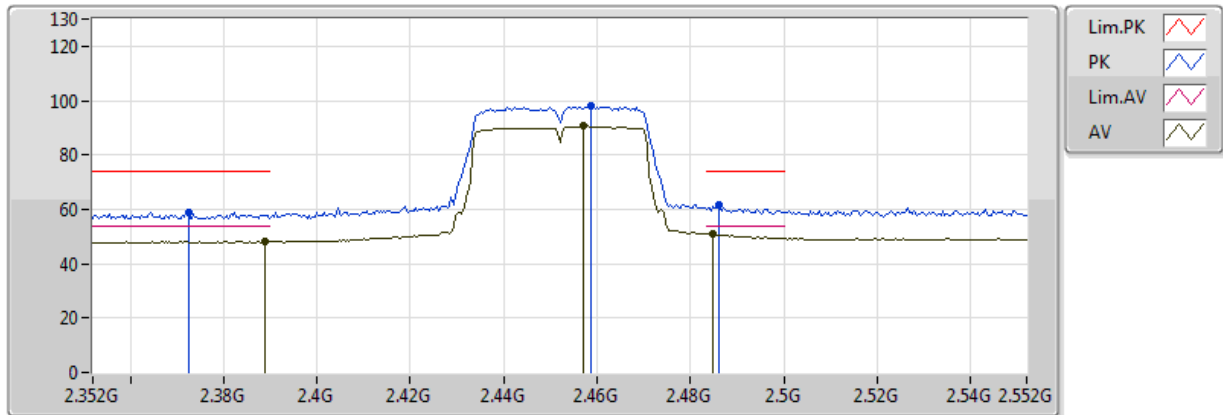


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.88756G     | 33.81             | 54.00             | -20.19         | 4.31           | 3           | Horizontal | 0              | 1.50          | -        | 29.50         | 31.32      | 8.19       | 35.20      |
| PK   | 4.87742G     | 43.99             | 74.00             | -30.01         | 4.28           | 3           | Horizontal | 0              | 1.50          | -        | 39.71         | 31.30      | 8.17       | 35.19      |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

## 2452MHz\_TX

28/11/2017

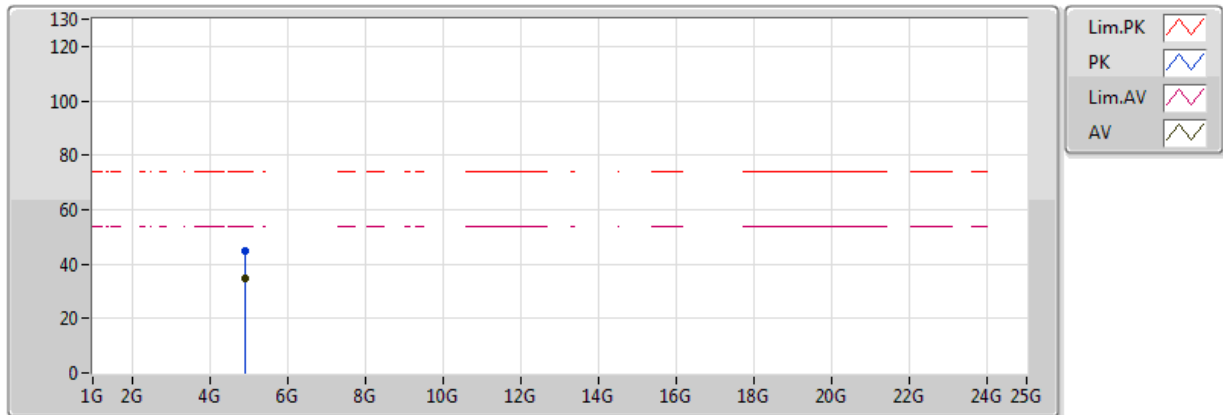


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.3888G      | 48.10             | 54.00             | -5.90          | 32.94          | 3           | Vertical  | 0              | 1.50          | -        | 15.16         | 27.21      | 5.73       | -          |
| AV   | 2.4572G      | 90.53             | Inf               | -Inf           | 33.20          | 3           | Vertical  | 0              | 1.50          | -        | 57.34         | 27.39      | 5.81       | -          |
| AV   | 2.4848G      | 50.89             | 54.00             | -3.11          | 33.30          | 3           | Vertical  | 0              | 1.50          | -        | 17.59         | 27.46      | 5.84       | -          |
| PK   | 2.3724G      | 58.78             | 74.00             | -15.22         | 32.88          | 3           | Vertical  | 0              | 1.50          | -        | 25.90         | 27.17      | 5.71       | -          |
| PK   | 2.4588G      | 98.26             | Inf               | -Inf           | 33.20          | 3           | Vertical  | 0              | 1.50          | -        | 65.06         | 27.39      | 5.81       | -          |
| PK   | 2.486G       | 61.39             | 74.00             | -12.61         | 33.31          | 3           | Vertical  | 0              | 1.50          | -        | 28.08         | 27.46      | 5.84       | -          |

### 802.11n HT40\_Nss1,(MCS0)\_2TX

### 2452MHz\_TX

28/11/2017

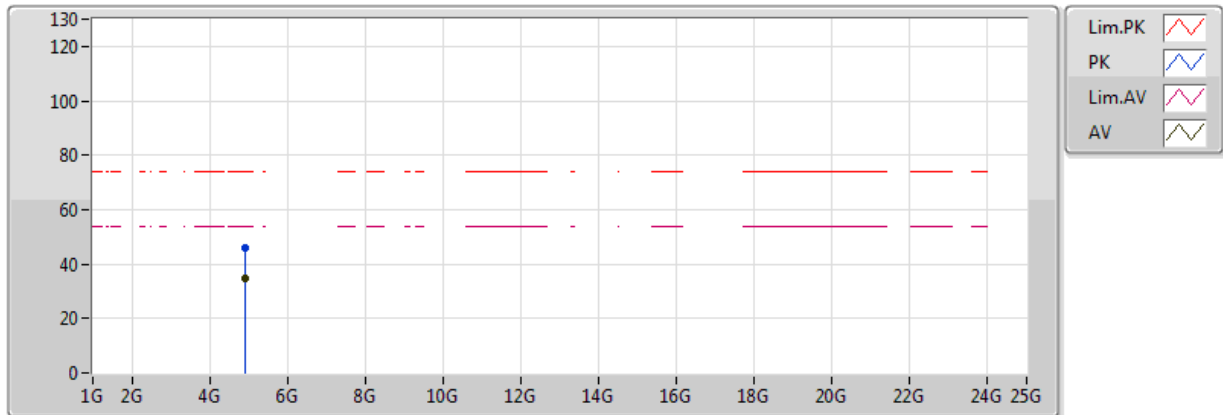


| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.92328G | 34.71    | 54.00    | -19.29 | 4.40   | 3    | Vertical  | 0       | 1.50   | -        | 30.31  | 31.38 | 8.23 | 35.20 |
| PK   | 4.91592G | 45.10    | 74.00    | -28.90 | 4.38   | 3    | Vertical  | 0       | 1.50   | -        | 40.72  | 31.37 | 8.22 | 35.20 |

### 802.11n HT40\_Nss1,(MCS0)\_2TX

### 2452MHz\_TX

28/11/2017



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.91894G | 34.72    | 54.00    | -19.28 | 4.39   | 3    | Horizontal | 360     | 1.50   | -        | 30.33  | 31.37 | 8.22 | 35.20 |
| PK   | 4.89746G | 45.74    | 74.00    | -28.26 | 4.33   | 3    | Horizontal | 360     | 1.50   | -        | 41.40  | 31.34 | 8.20 | 35.20 |