



# FCC Test Report

**FCC ID** : VW3DIW362-V2  
**Equipment** : SET TOP BOX  
**Brand Name** : SAGEMCOM  
**Model Name** : DIW362 UHD V2  
**Applicant / Manufacturer** : Sagemcom Broadband SAS  
250, route de l'Empereur 92848  
Rueil-Malmaison cedex – France  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Dec. 14, 2018, and testing was started from Dec. 20, 2018 and completed on Dec. 29, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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

Approved by: Allen Lin

***SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory***

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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**APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS****APPENDIX B. TEST RESULTS OF DTS BANDWIDTH****APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER****APPENDIX D. TEST RESULTS OF POWER SPECTRAL DENSITY****APPENDIX E. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS****APPENDIX F. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS****APPENDIX G. TEST RESULTS OF RADIATED EMISSION CO-LOCATION****APPENDIX H. TEST PHOTOS****PHOTOGRAPHS OF EUT V01**



## History of this test report



## Summary of Test Result

| Report Clause | Ref. Std. Clause | Test Items                                  | Result (PASS/FAIL) | Remark                         |
|---------------|------------------|---|--------------------|--------------------------------|
| 1.1.2         | 15.203           | Antenna Requirement                         | PASS               | FCC 15.203                     |
| 3.1           | 15.207           | AC Power-line Conducted Emissions           | PASS               | FCC 15.207                     |
| 3.2           | 15.247(a)        | DTS Bandwidth                               | PASS               | $\geq 500\text{kHz}$           |
| 3.3           | 15.247(b)        | Maximum Conducted Output Power              | PASS               | Power [dBm]: 30                |
| 3.4           | 15.247(e)        | Power Spectral Density                      | PASS               | PSD [dBm/3kHz]: 8              |
| 3.5           | 15.247(d)        | Emissions in Non-restricted Frequency Bands | PASS               | Non-Restricted Bands: > 30 dBc |
| 3.6           | 15.247(d)        | Emissions in Restricted Frequency Bands     | PASS               | Restricted Bands: FCC 15.209   |

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and explanations:**

None

Reviewed by: Jackson Tsai

Report Producer: Ann Hou



## 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(Port 2) |
| 2.4-2.4835GHz | 802.11g      | 20         | 1TX(Port 2) |
| 2.4-2.4835GHz | 802.11n HT20 | 20         | 3TX         |
| 2.4-2.4835GHz | 802.11n HT40 | 40         | 3TX         |

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. | Brand | Model Name | Antenna Type | Connector |
|------|-------|------------|--------------|-----------|
| 1    | -     | -          | PCB          | N/A       |
| 2    | -     | -          | PCB          | N/A       |
| 3    | -     | -          | PCB          | I-PEX     |
| 4    | -     | -          | PCB          | N/A       |

| Ant. | Port | Gain (dBi) |      |      |
|------|------|------------|------|------|
|      |      | 2.4G       | 5G   | BT   |
| 1    | 1    | 3.30       | 5.36 | -    |
| 2    | 2    | 3.55       | 5.31 | -    |
| 3    | 3    | 3.93       | 5.41 | -    |
| 4    | 4    | -          | -    | 3.54 |

Note 1: The EUT has four antennas.

Note 2: Higher gain antenna was used to perform the worst configuration and result of that was recorded as the final test result.

**For 2.4 GHz function:**

For IEEE 802.11b/g mode (1TX/1RX)

Support diversity function and pre-tested on each single chain, the worst case was Ant. 2(port 2) and it was record in this test report.

For IEEE 802.11n mode (3TX/3RX)

Ant. 1 (port 1), Ant. 2 (port 2) and Ant. 3 (port 3) could transmit/receive simultaneously.

**For 5 GHz function:**

For IEEE 802.11a mode (1TX/1RX)

Support diversity function and pre-tested on each single chain, the worst case was Ant. 3(port 3) and it was record in this test report.

For IEEE 802.11n/ac mode (3TX/3RX)

Ant. 1 (port 1), Ant. 2 (port 2) and Ant. 3 (port 3) could transmit/receive simultaneously.

**For Bluetooth function:**

For Bluetooth mode (1TX/1RX)

Only Ant. 4 (port 4) can be used as transmitting/receiving antenna.

### 1.1.3 EUT Information

| Operational Condition               |   |                     |  |   |  |  |
|-------------------------------------|---|---------------------|--|---|--|--|
| EUT Power Type                      | From AC Adapter   |                     |  |   |  |  |
| EUT Function                        | <input checked="" type="checkbox"/>   | Point-to-multipoint |  | <input type="checkbox"/> Point-to-point                 |  |  |
| Beamforming Function                | <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 Mode Test Duty Cycle

| Mode         | DC    | DCF(dB) | T(s)     | VBW(Hz) $\geq 1/T$ |
|--------------|-------|---------|----------|--------------------|
| 802.11b      | 0.957 | 0.191   | 12.418m  | 100                |
| 802.11g      | 0.951 | 0.218   | 2.066m   | 1k                 |
| 802.11n HT20 | 0.951 | 0.218   | 1.922m   | 1k                 |
| 802.11n HT40 | 0.905 | 0.434   | 946.875u | 3k                 |

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.



## 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 v05
- ◆ 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   |
|----------------|---------------|---------------|------------------|-------------|
| AC Conduction  | CO04-HY       | Lego          | 21°C / 55%       | 26/Dec/2018 |
| RF Conducted   | TH06-HY       | Streak        | 23.3°C / 63%     | 26/Dec/2018 |
| Radiated       | 03CH03-HY     | Terry         | 25°C / 57%       | 29/Dec/2018 |

## 1.4 Measurement Uncertainty

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

| Test Items                           | Uncertainty | Remark                   |
|--------------------------------------|-------------|--------------------------|
| Conducted Emission (150kHz ~ 30MHz)  | 3.54 dB     | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz)     | 1.6 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% |
| Temperature                          | 0.7 °C      | Confidence levels of 95% |
| Humidity                             | 4 %         | Confidence levels of 95% |



## 2 Test Configuration of EUT

### 2.1 Test Condition

| RF Conducted | Abbreviation | Remark |
|--------------|--------------|--------|
| TnomVnom     | Tnom         | 20°C   |
| -            | Vnom         | 120V   |

### 2.2 Test Channel Mode

| Test Software Version | accessMTool_REL_3_0_0_3 |
|-----------------------|-------------------------|
|-----------------------|-------------------------|

| Mode                            | Power Setting |
|---------------------------------|---------------|
| 802.11b_Nss1,(1Mbps)_1TX(Port2) | -             |
| 2412MHz                         | 82            |
| 2437MHz                         | 82            |
| 2462MHz                         | 82            |
| 802.11g_Nss1,(6Mbps)_1TX(Port2) | -             |
| 2412MHz                         | 67            |
| 2417MHz                         | 76            |
| 2422MHz                         | 82            |
| 2437MHz                         | 82            |
| 2447MHz                         | 82            |
| 2452MHz                         | 78            |
| 2457MHz                         | 73            |
| 2462MHz                         | 66            |
| 802.11n HT20_Nss1,(MCS0)_3TX    | -             |
| 2412MHz                         | 61            |
| 2417MHz                         | 72            |
| 2422MHz                         | 76            |
| 2427MHz                         | 79            |
| 2432MHz                         | 82            |
| 2437MHz                         | 82            |
| 2447MHz                         | 82            |
| 2452MHz                         | 77            |
| 2457MHz                         | 72            |
| 2462MHz                         | 58            |



|                              |    |
|------------------------------|----|
| 802.11n HT40_Nss1,(MCS0)_3TX | -  |
| 2422MHz                      | 50 |
| 2427MHz                      | 53 |
| 2432MHz                      | 58 |
| 2437MHz                      | 58 |
| 2442MHz                      | 55 |
| 2447MHz                      | 55 |
| 2452MHz                      | 46 |

## 2.3 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |  |
|---|--|
| <b>Tests Item</b>                                   | AC power-line conducted emissions                        |
| <b>Condition</b>                                    | AC power-line conducted measurement for line and neutral |
| <b>Operating Mode</b>                               | CTX  |
| 1   | Adapter mode   |

| The Worst Case Mode for Following Conformance Tests |  |
|---|--|
| <b>Tests Item</b>                                   | DTS Bandwidth<br>Maximum Conducted Output Power<br>Power Spectral Density<br>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   | Adapter mode  |
| <b>Operating Mode &gt; 1GHz</b>                     | CTX   |
| <b>Orthogonal Planes of EUT</b>                     | <b>Z Plane</b><br>  |
| <b>Worst Planes of EUT</b>                          | V   |



| The Worst Case Mode for Following Conformance Tests                                   |                                    |
|---|------------------------------------|
| <b>Tests Item</b>   | Simultaneous Transmission Analysis |
| <b>Test Condition</b>   | Radiated measurement               |
| <b>Operating Mode</b>   | Normal Link                        |
| 1   | WLAN 2.4GHz+WLAN 5GHz              |
| Refer to Sporton Test Report No.: Appendix G for Radiated Emission Co-location        |                                    |
| <b>Operating Mode</b>   | CTX                                |
| 2   | Bluetooth+WLAN 2.4GHz+WLAN 5GHz    |
| Refer to Sporton Test Report No.: FA862116-02 for Co-location RF Exposure Evaluation. |                                    |

## 2.4 Accessories and Support Equipment

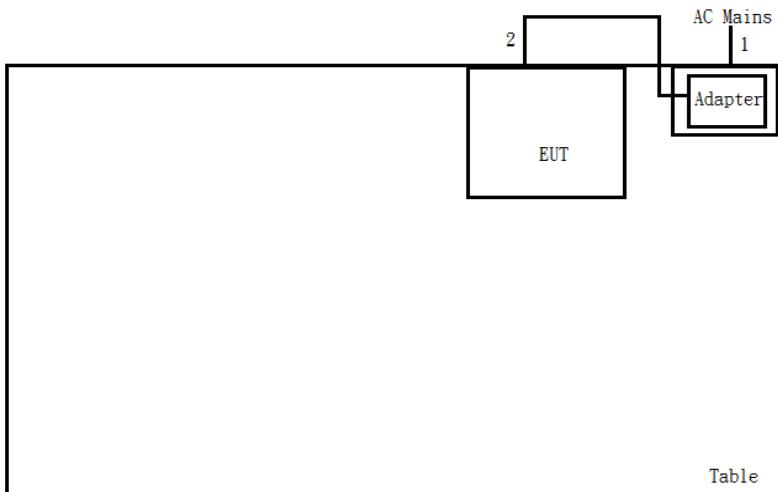
| Accessories  |                     |  |                   |                        |
|--------------|---------------------|--|-------------------|------------------------|
| AC Adapter 1 | <b>Brand Name</b>   | SAGEMCOM   | <b>Model Name</b> | MSA-C2000IS12.0-24N-DE |
|              | <b>Power Rating</b> | I/P: 200-240Vac, 50/60Hz, 0.7A max, O/P: 12Vdc, 2A |                   |                        |
|              | <b>Power Cord</b>   | 1.8 meter, non-shielded cable, w/o ferrite core    |                   |                        |
| AC Adapter 2 | <b>Brand Name</b>   | SAGEMCOM   | <b>Model Name</b> | MSA-C2000IS12.0-24N-DE |
|              | <b>Manufacturer</b> | MOSO   |                   |                        |
|              | <b>Power Rating</b> | I/P: 200-240Vac, 50/60Hz, 0.7A max, O/P: 12Vdc, 2A |                   |                        |
|              | <b>Power Cord</b>   | 1.8 meter, non-shielded cable, w/o ferrite core    |                   |                        |
| HDMI Cable   | <b>Power Cord</b>   | 1.4 meter, shielded cable, w/o ferrite core        |                   |                        |

Reminder: Regarding to more detail and other information, please refer to user manual.

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

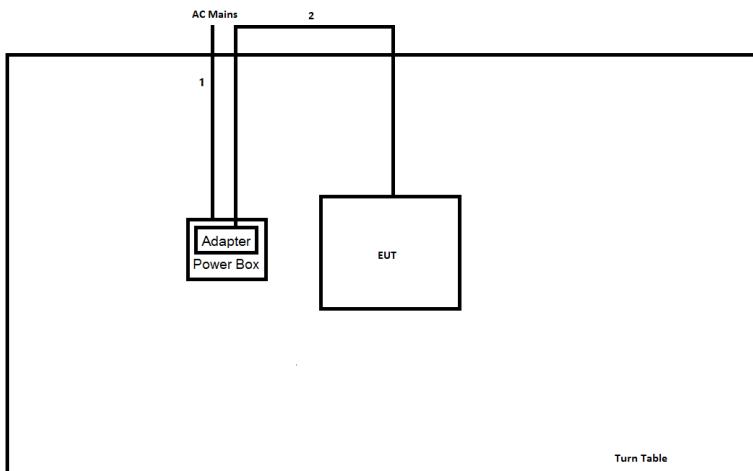
## 2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



| Item | Connection    | Shielded | Length |
|------|---------------|----------|--------|
| 1    | AC Power line | No       | 1.5m   |
| 2    | DC Power line | No       | 1.79m  |

Test Setup Diagram - Radiated Test



| Item | Connection    | Shielded | Length |
|------|---------------|----------|--------|
| 1    | AC Power line | No       | 1.8m   |
| 2    | DC Power line | No       | 1.79m  |

## 3 Transmitter Test Result

### 3.1 AC Power-line Conducted Emissions

#### 3.1.1 AC Power-line Conducted Emissions Limit

| AC Power-line Conducted Emissions Limit |            |           |
|---|------------|-----------|
| Frequency Emission (MHz)                | Quasi-Peak | Average   |
| 0.15-0.5                                | 66 - 56 *  | 56 - 46 * |
| 0.5-5                                   | 56         | 46        |
| 5-30                                    | 60         | 50        |

Note 1: \* Decreases with the logarithm of the frequency.

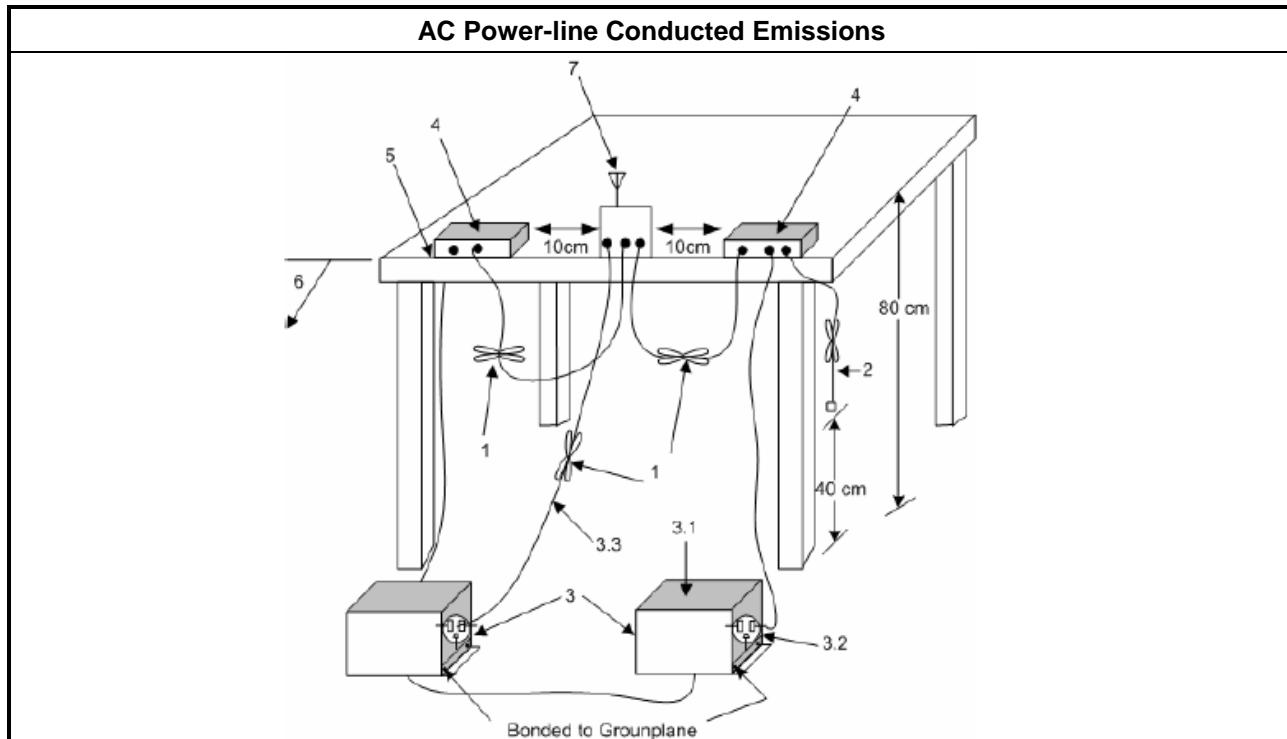
#### 3.1.2 Measuring Instruments

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

#### 3.1.3 Test Procedures

| Test Method  |
|--|
| <input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions. |

#### 3.1.4 Test Setup



#### 3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A



## 3.2 DTS Bandwidth

### 3.2.1 6dB Bandwidth Limit

| 6dB Bandwidth Limit                                 |
|---|
| <b>Systems using digital modulation techniques:</b> |
| ▪ 6 dB bandwidth $\geq$ 500 kHz.                    |

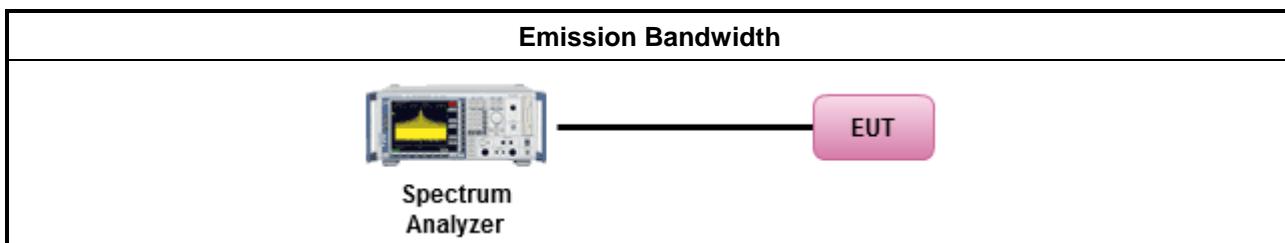
### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

| Test Method  |
|--|
| ▪ For the emission bandwidth shall be measured using one of the options below:                                       |
| <input checked="" type="checkbox"/> Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement. |
| <input type="checkbox"/> Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.                                |
| <input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.                          |

### 3.2.4 Test Setup



### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit  |   |
|---|---|
|   | <ul style="list-style-type: none"><li>▪ If <math>G_{TX} \leq 6</math> dBi, then <math>P_{Out} \leq 30</math> dBm (1 W)</li></ul>  |
|   | <ul style="list-style-type: none"><li>▪ Point-to-multipoint systems (P2M): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math> dBm</li></ul>   |
|   | <ul style="list-style-type: none"><li>▪ Point-to-point systems (P2P): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li></ul>  |
|   | <ul style="list-style-type: none"><li>▪ Smart antenna system (SAS):<ul style="list-style-type: none"><li>- Single beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li><li>- Overlap beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li><li>- Aggregate power on all beams: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3 + 8</math> dB dBm</li></ul></li></ul> |
| <b>e.i.r.p. Power Limit:</b>  |   |
|   | <ul style="list-style-type: none"><li>▪ 2400-2483.5 MHz Band</li></ul>  |
|   | <ul style="list-style-type: none"><li>▪ Point-to-multipoint systems (P2M): <math>P_{eirp} \leq 36</math> dBm (4 W)</li></ul>  |
|   | <ul style="list-style-type: none"><li>▪ Point-to-point systems (P2P): <math>P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])</math> dBm</li></ul>   |
|   | <ul style="list-style-type: none"><li>▪ Smart antenna system (SAS)<ul style="list-style-type: none"><li>- Single beam: <math>P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})</math> dBm</li><li>- Overlap beam: <math>P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})</math> dBm</li><li>- Aggregate power on all beams: <math>P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])</math> dBm</li></ul></li></ul>  |
| $P_{out}$ = maximum peak conducted output power or maximum conducted output power in dBm,<br>$G_{TX}$ = the maximum transmitting antenna directional gain in dBi. |   |

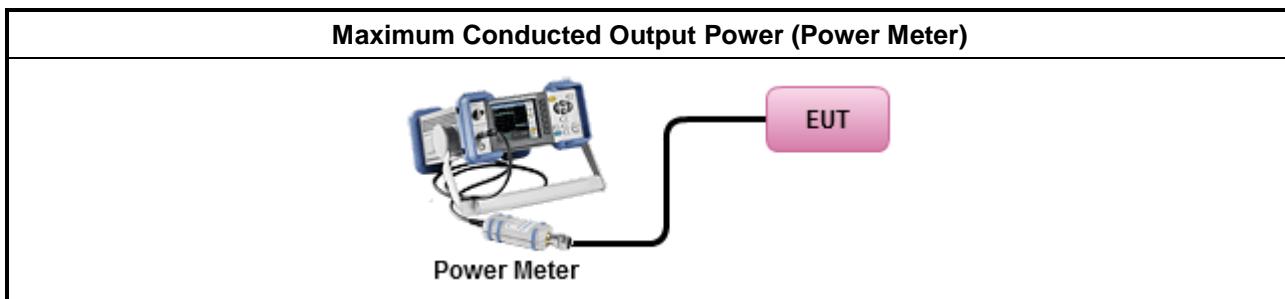
#### 3.3.2 Measuring Instruments

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

### 3.3.3 Test Procedures

| Test Method                              |   |
|--|---|
| ▪ Maximum Peak Conducted Output Power    | <input type="checkbox"/> Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW $\geq$ EBW method.<br><input type="checkbox"/> Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.<br><input type="checkbox"/> Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.   |
| ▪ Maximum Average Conducted Output Power | <input type="checkbox"/> Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.<br><input checked="" type="checkbox"/> Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.   |
| ▪ For conducted measurement.             | <ul style="list-style-type: none"><li>▪ If the EUT supports multiple transmit chains using options given below:<br/>Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.</li><li>▪ If multiple transmit chains, EIRP calculation could be following as methods:<br/><math>P_{total} = P_1 + P_2 + \dots + P_n</math><br/>(calculated in linear unit [mW] and transfer to log unit [dBm])<br/><math>EIRP_{total} = P_{total} + DG</math></li></ul> |

### 3.3.4 Test Setup



### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

## 3.4 Power Spectral Density

### 3.4.1 Power Spectral Density Limit

#### Power Spectral Density Limit

- Power Spectral Density (PSD)  $\leq 8 \text{ dBm}/3\text{kHz}$

### 3.4.2 Measuring Instruments

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

### 3.4.3 Test Procedures

#### Test Method

- Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).

Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Method PKPSD.

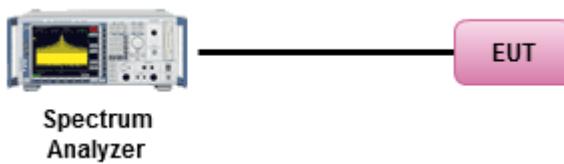
- For conducted measurement.

- If The EUT supports multiple transmit chains using options given below:

- Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

### 3.4.4 Test Setup

#### Power Spectral Density



### 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

## 3.5 Emissions in Non-restricted Frequency Bands

### 3.5.1 Emissions in Non-restricted Frequency Bands Limit

| Un-restricted Band Emissions Limit |            |
|------------------------------------|------------|
| RF output power procedure          | Limit (dB) |
| Peak output power procedure        | 20         |
| Average output power procedure     | 30         |

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

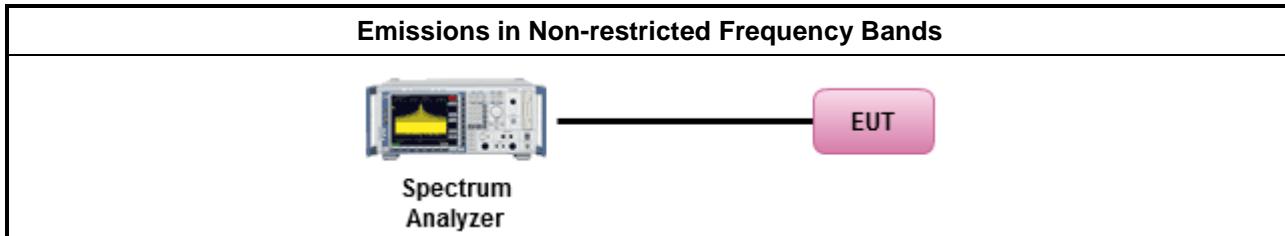
### 3.5.2 Measuring Instruments

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

### 3.5.3 Test Procedures

| Test Method  |
|--|
| ▪ Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands. |

### 3.5.4 Test Setup



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

Refer as Appendix E



## 3.6 Emissions in Restricted Frequency Bands

### 3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

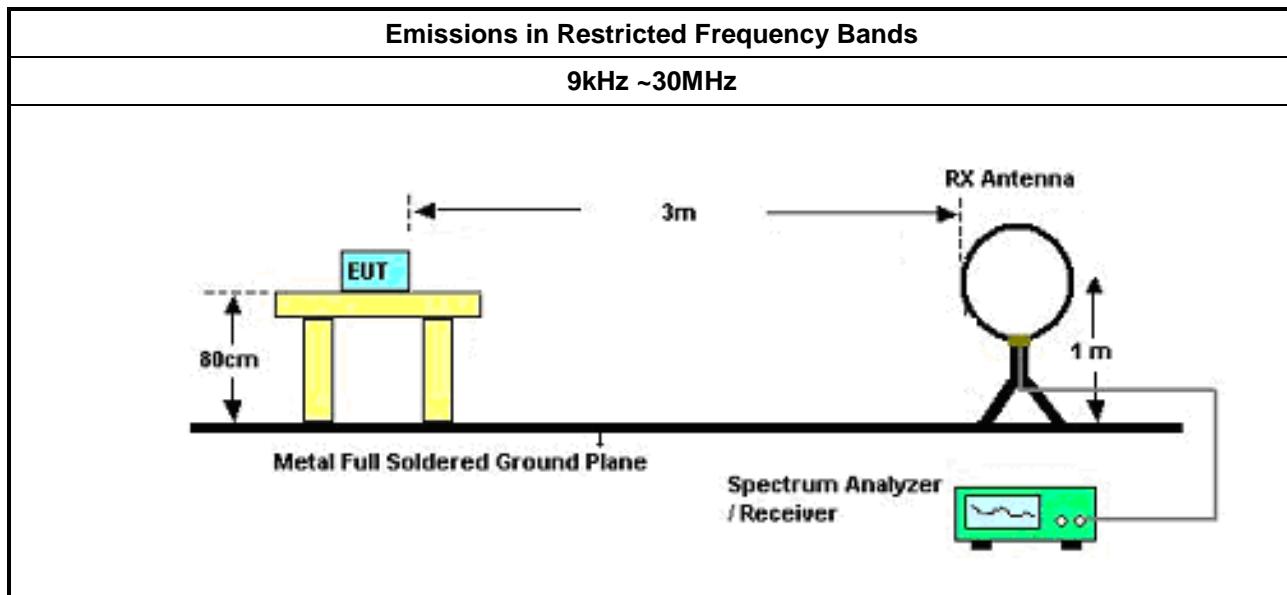
### 3.6.2 Measuring Instruments

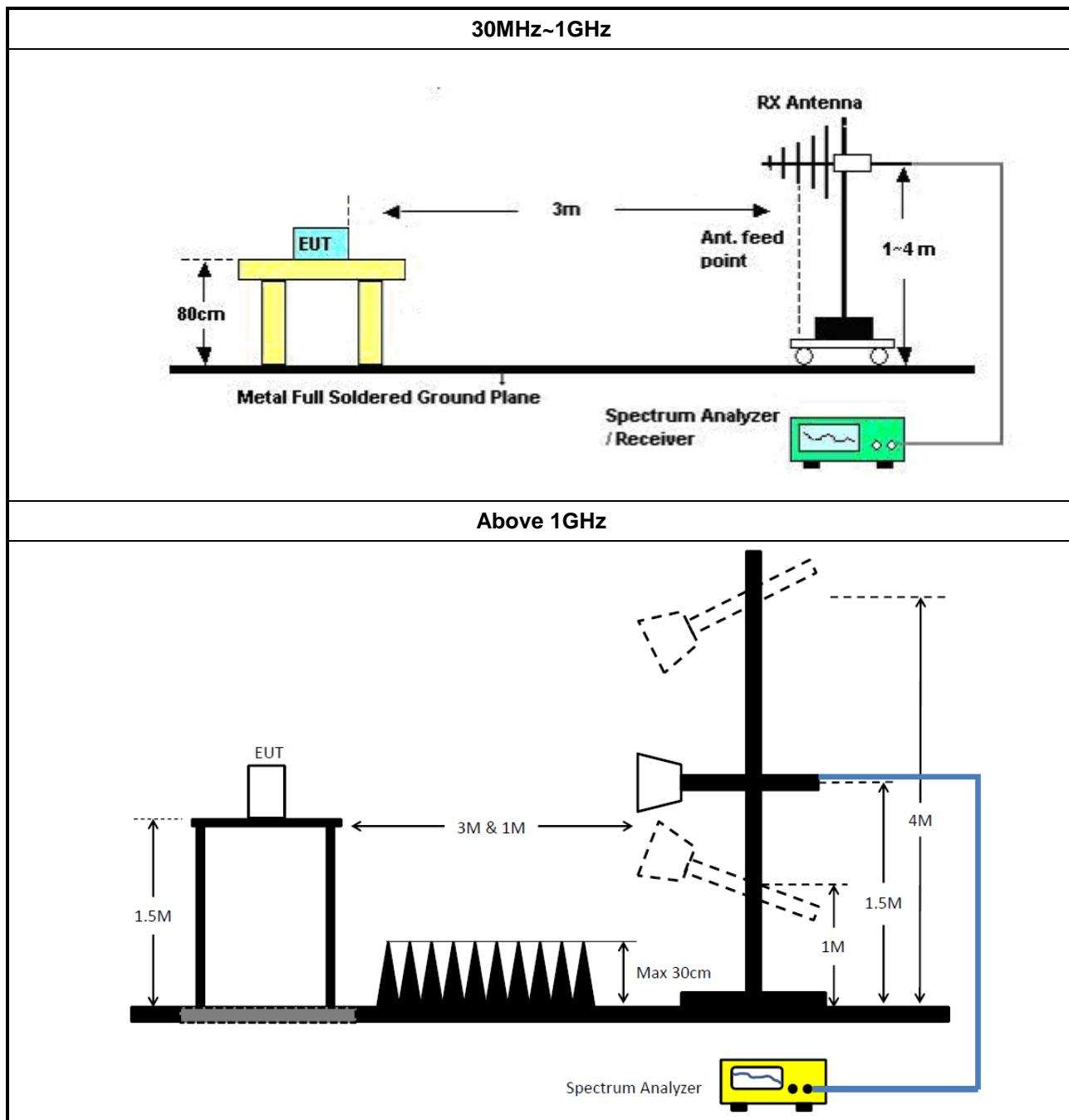
Refer a test equipment and calibration data table in this test report.

### 3.6.3 Test Procedures

| Test Method   |  |
|---|--|
| ▪ The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].   |  |
| ▪ 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. |  |
| ▪ For the transmitter unwanted emissions shall be measured using following options below:   |  |
|   | ▪ Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.   |
| ▪ For the transmitter band-edge emissions shall be measured using following options below:  |  |
|   | ▪ Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below. |
|   | ▪ Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.  |
|   | ▪ Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).   |
| ▪ Use the following spectrum analyzer settings:   |  |
|   | ▪ Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.  |
|   | ▪ Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.<br>For average measurement, refer as 1.1.4.  |

### 3.6.4 Test Setup





### 3.6.5 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.

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

Refer as Appendix F



## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

| Instrument                     | Manufacturer | Model No.   | Serial No. | Spec.               | Calibration Date | Calibration Due Date |
|--------------------------------|--------------|-------------|------------|---------------------|------------------|----------------------|
| EMC Receiver                   | R&S          | ESR         | 102051     | 9KHz ~ 3.6GHz       | 03/May/2018      | 02/May/2019          |
| LISN                           | R&S          | ENV216      | 101295     | 9kHz ~ 30MHz        | 08/Nov/2018      | 07/Nov/2019          |
| RF Cable-CON                   | MTJ          | RG142       | CB002-CO   | 9kHz ~ 200MHz       | 17/Sep/2018      | 16/Sep/2019          |
| AC POWER                       | APC          | AFC-11005G  | F310050055 | 47Hz~63Hz<br>5~300V | NCR              | NCR                  |
| Impuls Begrenzer Pulse Limiter | SCHWARZBECK  | VTSD 9561-F | 9561-F041  | 9 kHz ~ 30 MHz      | 12/Oct/2018      | 11/Oct/2019          |

NCR : Non-Calibration Require

### Instrument for Radiated Test

| Instrument                       | Manufacturer   | Model No.          | Serial No.       | Spec.              | Calibration Date | Calibration Due Date |
|----------------------------------|----------------|--------------------|------------------|--------------------|------------------|----------------------|
| 3m Semi Anechoic Chamber         | SIDT FRANKONIA | SAC-3M             | 03CH03-HY        | 30MHz ~ 1GHz<br>3m | 30/Oct/2018      | 29/Oct/2019          |
| 3m Semi Anechoic Chamber         | SIDT FRANKONIA | SAC-3M             | 03CH03-HY        | 1GHz ~ 18GHz<br>3m | 30/Oct/2018      | 29/Oct/2019          |
| Amplifier                        | HP             | 8447D              | 2944A08033       | 10kHz ~ 1.3GHz     | 23/Apr/2018      | 19/Apr/2019          |
| Microwave System Preamplifier    | KEYSIGHT       | 83017A             | MY53270196       | 1GHz ~ 26.5GHz     | 05/Sep/2018      | 04/Sep/2019          |
| Signal Analyzer                  | R&S            | FSV40              | 101500           | 10Hz ~ 40GHz       | 18/Jul/2018      | 17/Jul/2019          |
| EMI Test Receiver                | R&S            | ESR3               | 102052           | 9kHz ~ 3.6GHz      | 10/Apr/2018      | 09/Apr/2019          |
| RF Cable-R03m                    | Jye Bao        | RG142              | CB021            | 9kHz ~ 1GHz        | 29/Jan/2018      | 28/Jan/2019          |
| RF Cable-high                    | SUHNER         | SUCOFLEX 106       | CB222            | 1GHz ~ 40GHz       | 29/Jan/2018      | 28/Jan/2019          |
| Broadband Horn Antenna           | SCHWARZBECK    | BBHA 9170          | BBHA 9170154     | 18GHz ~ 40GHz      | 06/Feb/ 2018     | 05/Feb/2019          |
| Double Ridged Guide Horn Antenna | SCHWARZBECK    | BBHA 9120 D        | BBHA 9120 D 1531 | 1GHz ~ 18GHz       | 18/Apr/ 2018     | 17/Apr/2019          |
| Bilog Antenna with 5dB Pad       | ETS            | 3142B & MTJ6102-05 | 00022055         | 26 MHz - 3 GHz     | 19/Nov/2018      | 18/Nov/2019          |
| Preamplifier                     | MITEQ          | TTA1840-35-HG      | 1864481          | 18GHz ~ 40GHz      | 24/Aug/2018      | 23/Aug/2019          |
| Loop Antenna                     | TESEQ          | HLA 6120           | 31244            | 9kHz ~ 30MHz       | 28/Mar/2018      | 27/Mar/2019          |
| RF Cable                         | HUBER+SUHNER   | SUCOFLEX 102       | MY2579/2         | 100 kHz~40 GHz     | 13/Jun/2018      | 12/Jun/2019          |
| RF Cable                         | HUBER+SUHNER   | SUCOFLEX 102       | MY2580/2         | 100 kHz~40 GHz     | 10/May/2018      | 09/May/2019          |



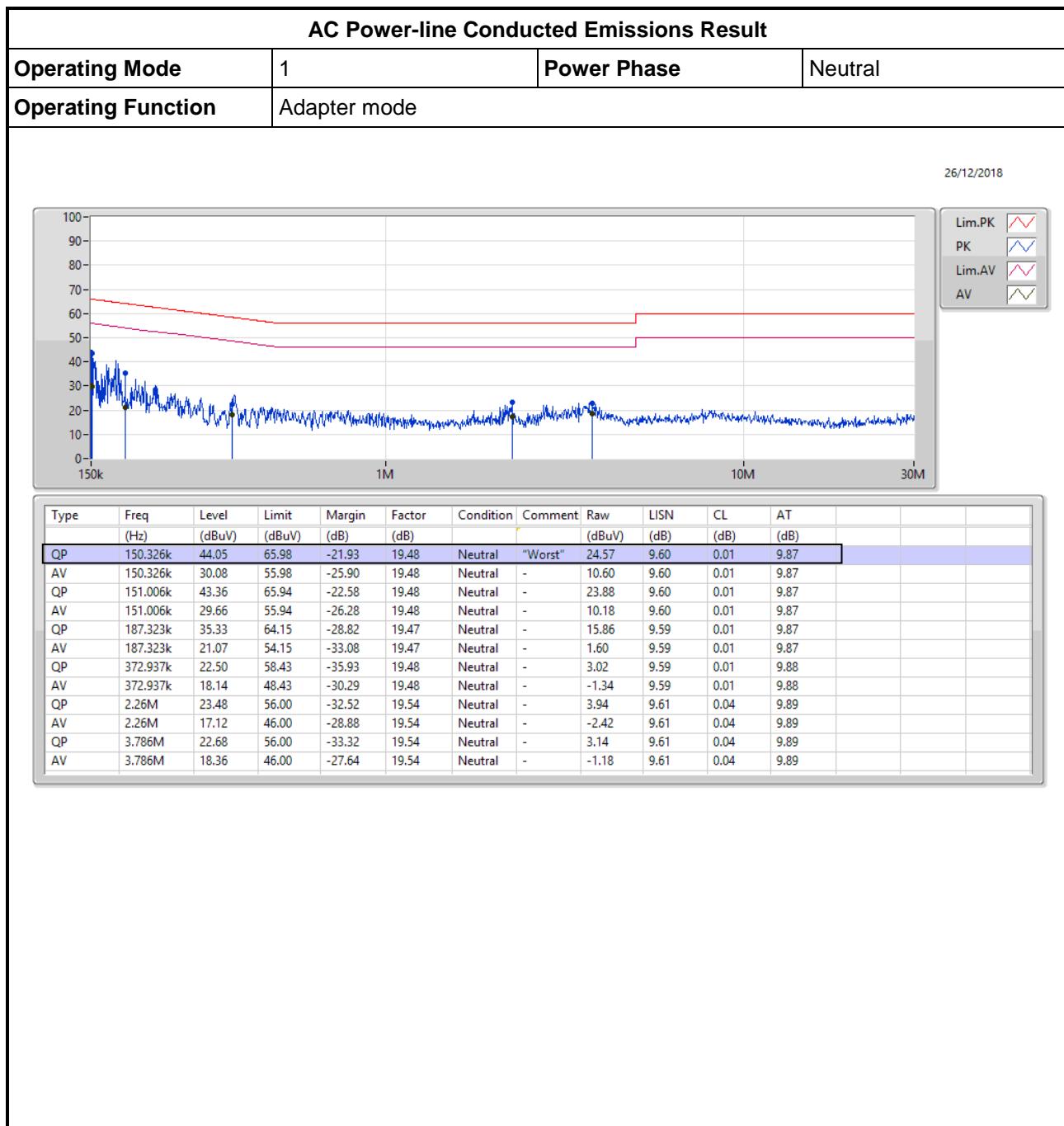
## Instrument for Conducted Test

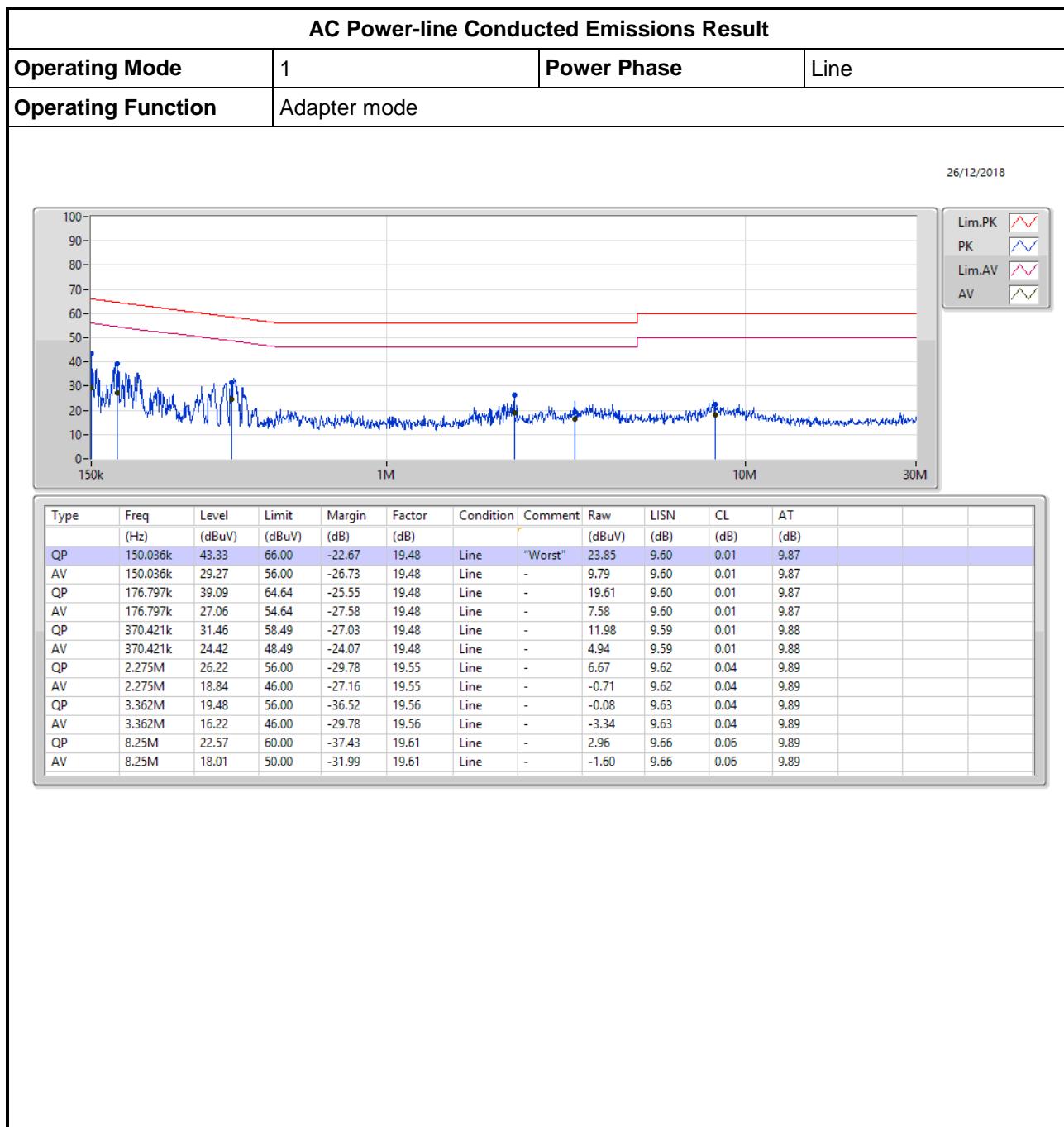
| Instrument       | Manufacturer | Model No.    | Serial No.    | Spec.           | Calibration Date | Calibration Due Date |
|------------------|--------------|--------------|---------------|-----------------|------------------|----------------------|
| Signal Analyzer  | R&S          | FSV40        | 101500        | 10Hz ~ 40GHz    | 18/Jul/2018      | 17/Jul/2019          |
| Signal Generator | R&S          | SMB100A      | 175727        | 100kHz~40GHz    | 26/Oct/2018      | 25/Oct/2019          |
| Power Sensor     | Anritsu      | MA2411B      | 0917017       | 300MHz ~ 40GHz  | 05/Feb/2018      | 04/Feb/2019          |
| Power Meter      | Anritsu      | ML2495A      | 0949003       | 300MHz ~ 40GHz  | 05/Feb/2018      | 04/Feb/2019          |
| RF Cable-0.2m    | HUBER+SUHNER | SUCOFLEX_104 | MY10710/4     | 30MHz ~ 26.5GHz | 26/Jan/2018      | 25/Jan/2019          |
| RF Cable-0.2m    | HUBER+SUHNER | SUCOFLEX_104 | MY10709/4     | 30MHz ~ 26.5GHz | 26/Jan/2018      | 25/Jan/2019          |
| CABLE 0.5m       | HUBER        | MY39464/4    | RF Cable - 23 | 1GHz~18GHz      | 26/Jan/2018      | 25/Jan/2019          |



## AC Power-line Conducted Emissions

Appendix A





**Summary**

| Mode                            | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|---------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 2.4-2.4835GHz                   | -                | -               | -        | -                | -               |
| 802.11b_Nss1,(1Mbps)_1TX(Port2) | 9.025M           | 12.019M         | 12M0G1D  | 8.55M            | 11.869M         |
| 802.11g_Nss1,(6Mbps)_1TX(Port2) | 16.35M           | 16.717M         | 16M7D1D  | 16.275M          | 16.592M         |
| 802.11n HT20_Nss1,(MCS0)_3TX    | 17.575M          | 17.866M         | 17M9D1D  | 17.2M            | 17.666M         |
| 802.11n HT40_Nss1,(MCS0)_3TX    | 35.8M            | 36.332M         | 36M3D1D  | 35.6M            | 36.182M         |

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

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

**Result**

| Mode                            | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) | Port 3-N dB<br>(Hz) | Port 3-OBW<br>(Hz) |
|---------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
| 802.11b_Nss1,(1Mbps)_1TX(Port2) | -      | -             | -                   | -                  | -                   | -                  | -                   | -                  |
| 2412MHz                         | Pass   | 500k          | -                   | -                  | 9.025M              | 12.019M            | -                   | -                  |
| 2437MHz                         | Pass   | 500k          | -                   | -                  | 8.55M               | 11.994M            | -                   | -                  |
| 2462MHz                         | Pass   | 500k          | -                   | -                  | 9M                  | 11.869M            | -                   | -                  |
| 802.11g_Nss1,(6Mbps)_1TX(Port2) | -      | -             | -                   | -                  | -                   | -                  | -                   | -                  |
| 2412MHz                         | Pass   | 500k          | -                   | -                  | 16.35M              | 16.592M            | -                   | -                  |
| 2437MHz                         | Pass   | 500k          | -                   | -                  | 16.275M             | 16.717M            | -                   | -                  |
| 2462MHz                         | Pass   | 500k          | -                   | -                  | 16.3M               | 16.592M            | -                   | -                  |
| 802.11n HT20_Nss1,(MCS0)_3TX    | -      | -             | -                   | -                  | -                   | -                  | -                   | -                  |
| 2412MHz                         | Pass   | 500k          | 17.275M             | 17.691M            | 17.575M             | 17.716M            | 17.575M             | 17.691M            |
| 2437MHz                         | Pass   | 500k          | 17.2M               | 17.866M            | 17.55M              | 17.866M            | 17.525M             | 17.866M            |
| 2462MHz                         | Pass   | 500k          | 17.3M               | 17.716M            | 17.575M             | 17.666M            | 17.55M              | 17.666M            |
| 802.11n HT40_Nss1,(MCS0)_3TX    | -      | -             | -                   | -                  | -                   | -                  | -                   | -                  |
| 2422MHz                         | Pass   | 500k          | 35.7M               | 36.282M            | 35.65M              | 36.232M            | 35.7M               | 36.282M            |
| 2437MHz                         | Pass   | 500k          | 35.65M              | 36.232M            | 35.65M              | 36.332M            | 35.6M               | 36.232M            |
| 2452MHz                         | Pass   | 500k          | 35.75M              | 36.182M            | 35.8M               | 36.182M            | 35.7M               | 36.282M            |

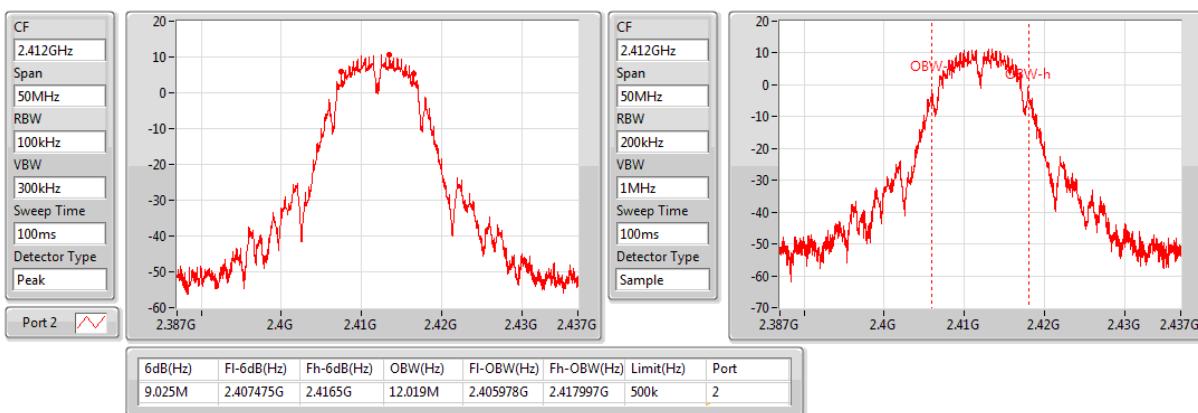
**Port X-N dB** = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;



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

EBW

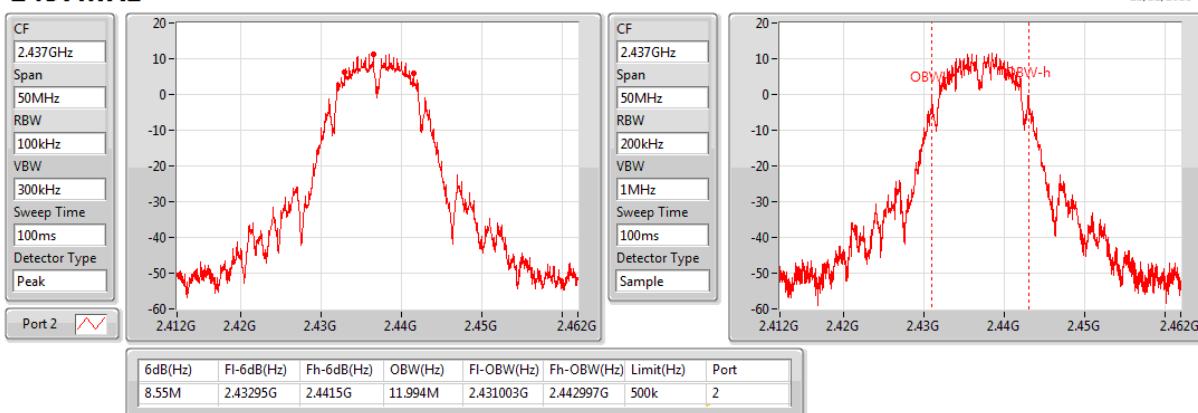
2412MHz



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

EBW

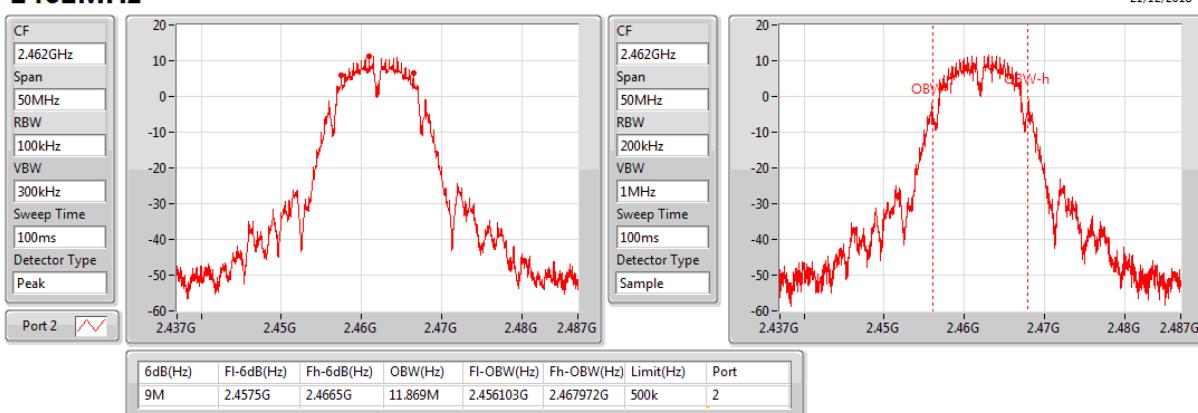
2437MHz



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

EBW

2462MHz

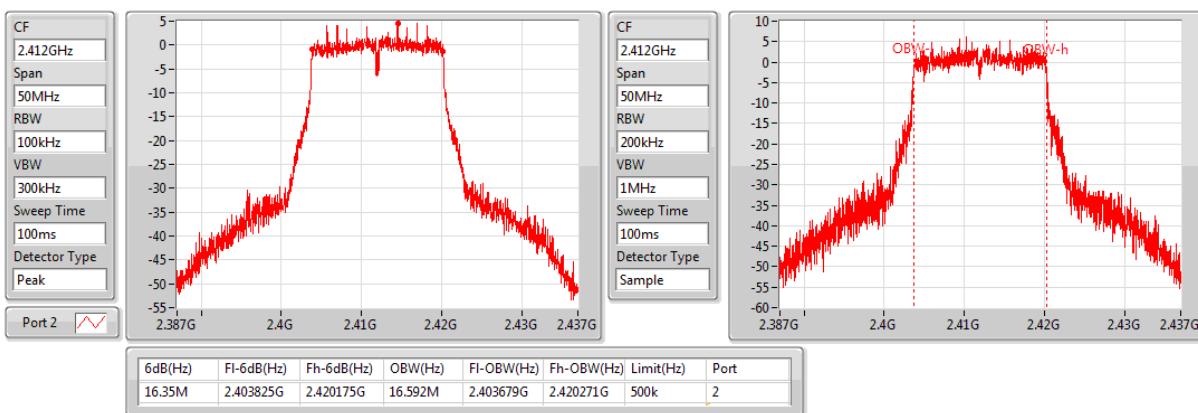




## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

EBW

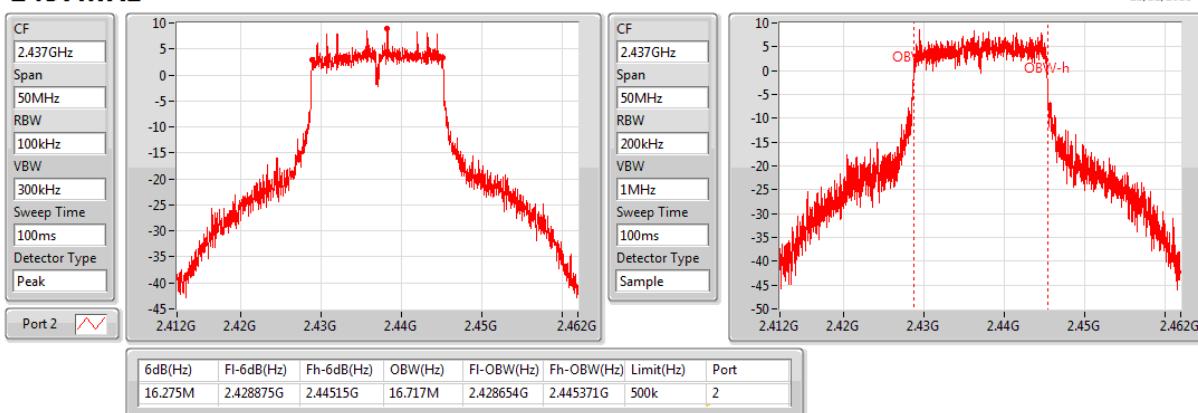
2412MHz



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

EBW

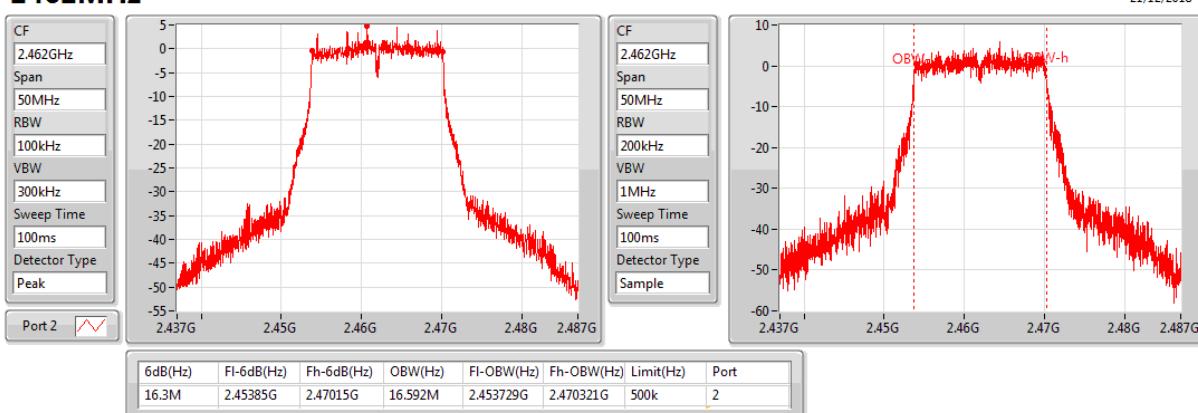
2437MHz



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

EBW

2462MHz



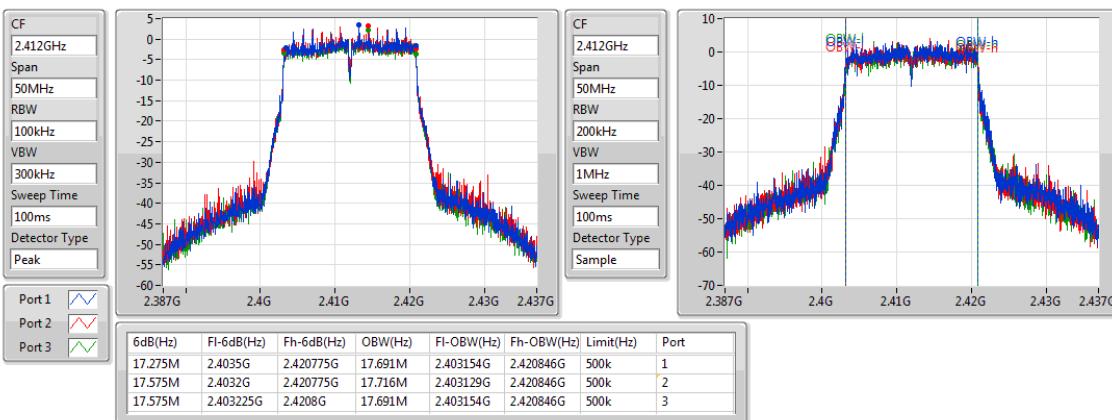


## 802.11n HT20\_Nss1,(MCS0)\_3TX

EBW

2412MHz

21/12/2018

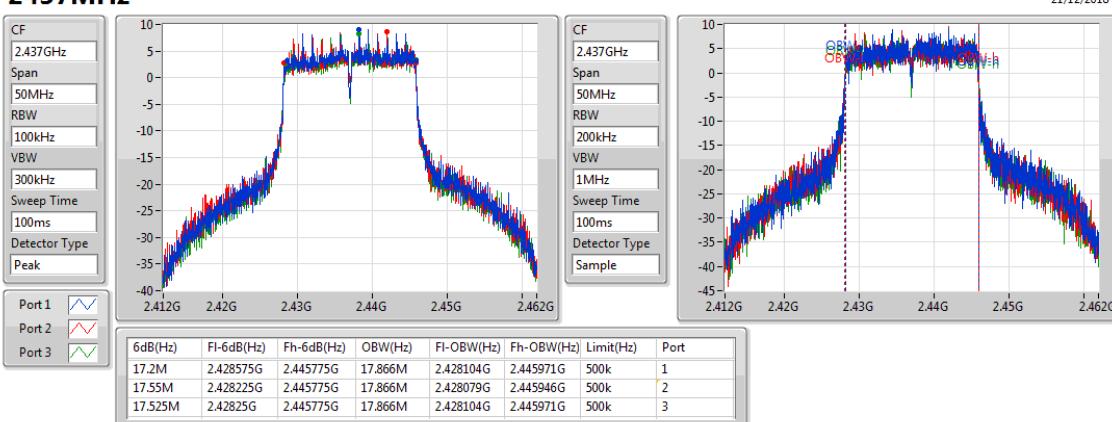


## 802.11n HT20\_Nss1,(MCS0)\_3TX

EBW

2437MHz

21/12/2018



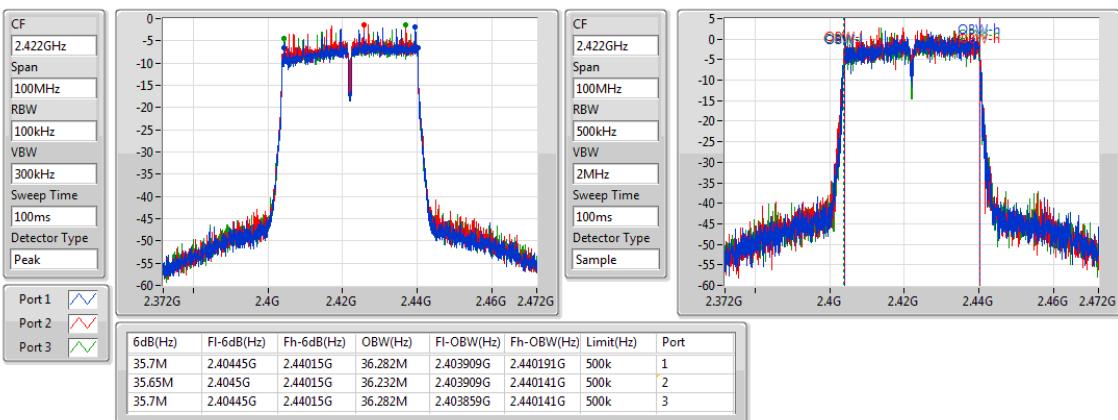
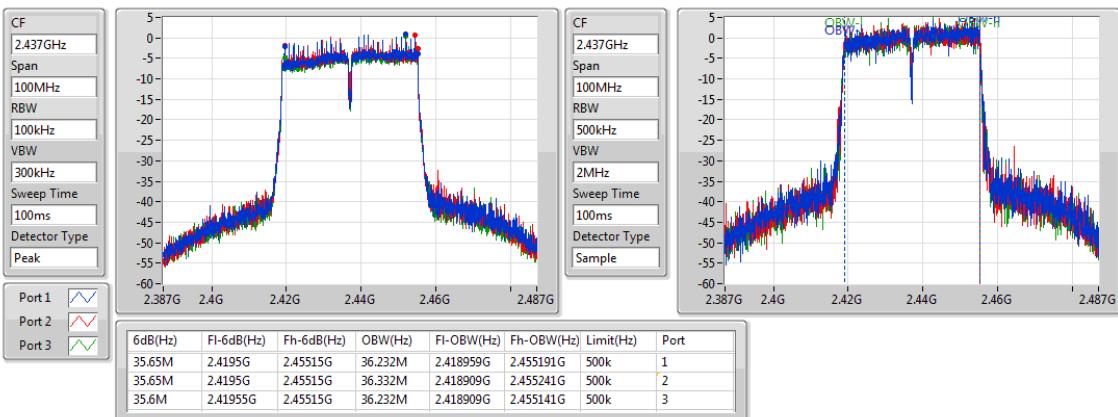
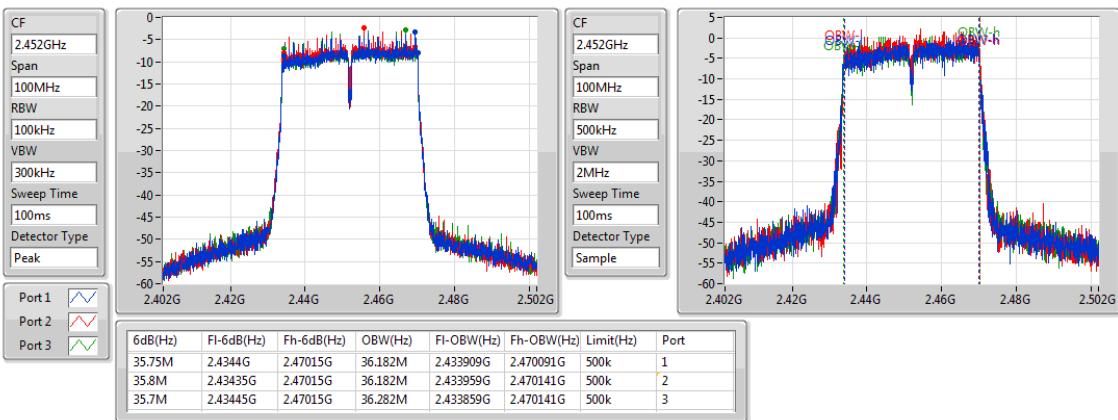
## 802.11n HT20\_Nss1,(MCS0)\_3TX

EBW

2462MHz

21/12/2018



**802.11n HT40\_Nss1,(MCS0)\_3TX****2422MHz****802.11n HT40\_Nss1,(MCS0)\_3TX****2437MHz****802.11n HT40\_Nss1,(MCS0)\_3TX****2452MHz**

**Summary**

| Mode                            | Total Power<br>(dBm) | Total Power<br>(W) |
|---------------------------------|----------------------|--------------------|
| 2.4-2.4835GHz                   | -                    | -                  |
| 802.11b_Nss1,(1Mbps)_1TX(Port2) | 21.32                | 0.13552            |
| 802.11g_Nss1,(6Mbps)_1TX(Port2) | 20.90                | 0.12303            |
| 802.11n HT20_Nss1,(MCS0)_3TX    | 25.48                | 0.35318            |
| 802.11n HT40_Nss1,(MCS0)_3TX    | 20.11                | 0.10257            |

**Result**

| Mode                            | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Port 3<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|---------------------------------|--------|-------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| 802.11b_Nss1,(1Mbps)_1TX(Port2) | -      | -           | -               | -               | -               | -                    | -                    |
| 2412MHz                         | Pass   | 3.93        | -               | 21.19           | -               | 21.19                | 30.00                |
| 2437MHz                         | Pass   | 3.93        | -               | 21.29           | -               | 21.29                | 30.00                |
| 2462MHz                         | Pass   | 3.93        | -               | 21.32           | -               | 21.32                | 30.00                |
| 802.11g_Nss1,(6Mbps)_1TX(Port2) | -      | -           | -               | -               | -               | -                    | -                    |
| 2412MHz                         | Pass   | 3.93        | -               | 17.20           | -               | 17.20                | 30.00                |
| 2417MHz                         | Pass   | 3.93        | -               | 19.24           | -               | 19.24                | 30.00                |
| 2422MHz                         | Pass   | 3.93        | -               | 20.63           | -               | 20.63                | 30.00                |
| 2437MHz                         | Pass   | 3.93        | -               | 20.73           | -               | 20.73                | 30.00                |
| 2447MHz                         | Pass   | 3.93        | -               | 20.90           | -               | 20.90                | 30.00                |
| 2452MHz                         | Pass   | 3.93        | -               | 19.95           | -               | 19.95                | 30.00                |
| 2457MHz                         | Pass   | 3.93        | -               | 18.79           | -               | 18.79                | 30.00                |
| 2462MHz                         | Pass   | 3.93        | -               | 17.05           | -               | 17.05                | 30.00                |
| 802.11n HT20_Nss1,(MCS0)_3TX    | -      | -           | -               | -               | -               | -                    | -                    |
| 2412MHz                         | Pass   | 3.93        | 15.64           | 15.36           | 14.93           | 20.09                | 30.00                |
| 2417MHz                         | Pass   | 3.93        | 18.56           | 18.19           | 17.96           | 23.01                | 30.00                |
| 2422MHz                         | Pass   | 3.93        | 19.61           | 19.08           | 19.02           | 24.02                | 30.00                |
| 2427MHz                         | Pass   | 3.93        | 20.43           | 19.87           | 19.73           | 24.79                | 30.00                |
| 2432MHz                         | Pass   | 3.93        | 20.99           | 20.55           | 20.46           | 25.44                | 30.00                |
| 2437MHz                         | Pass   | 3.93        | 20.96           | 20.67           | 20.46           | 25.47                | 30.00                |
| 2447MHz                         | Pass   | 3.93        | 20.96           | 20.65           | 20.51           | 25.48                | 30.00                |
| 2452MHz                         | Pass   | 3.93        | 20.07           | 19.61           | 19.46           | 24.49                | 30.00                |
| 2457MHz                         | Pass   | 3.93        | 18.60           | 18.51           | 18.13           | 23.19                | 30.00                |
| 2462MHz                         | Pass   | 3.93        | 15.02           | 14.96           | 14.61           | 19.64                | 30.00                |
| 802.11n HT40_Nss1,(MCS0)_3TX    | -      | -           | -               | -               | -               | -                    | -                    |
| 2422MHz                         | Pass   | 3.93        | 13.01           | 13.25           | 12.80           | 17.80                | 30.00                |
| 2427MHz                         | Pass   | 3.93        | 13.87           | 14.11           | 13.37           | 18.57                | 30.00                |
| 2432MHz                         | Pass   | 3.93        | 15.46           | 15.43           | 15.00           | 20.07                | 30.00                |
| 2437MHz                         | Pass   | 3.93        | 15.37           | 15.49           | 15.16           | 20.11                | 30.00                |
| 2442MHz                         | Pass   | 3.93        | 14.43           | 14.65           | 14.14           | 19.18                | 30.00                |
| 2447MHz                         | Pass   | 3.93        | 14.66           | 14.76           | 14.18           | 19.31                | 30.00                |
| 2452MHz                         | Pass   | 3.93        | 11.77           | 12.22           | 11.65           | 16.66                | 30.00                |

**DG** = Directional Gain; **Port X** = Port X output power**Note : Conducted average output power is for reference only**

**Summary**

| Mode                            | PD<br>(dBm/RBW) |
|---------------------------------|-----------------|
| 2.4-2.4835GHz                   | -               |
| 802.11b_Nss1,(1Mbps)_1TX(Port2) | -2.60           |
| 802.11g_Nss1,(6Mbps)_1TX(Port2) | -5.02           |
| 802.11n HT20_Nss1,(MCS0)_3TX    | -3.74           |
| 802.11n HT40_Nss1,(MCS0)_3TX    | -10.54          |

RBW=3kHz.

**Result**

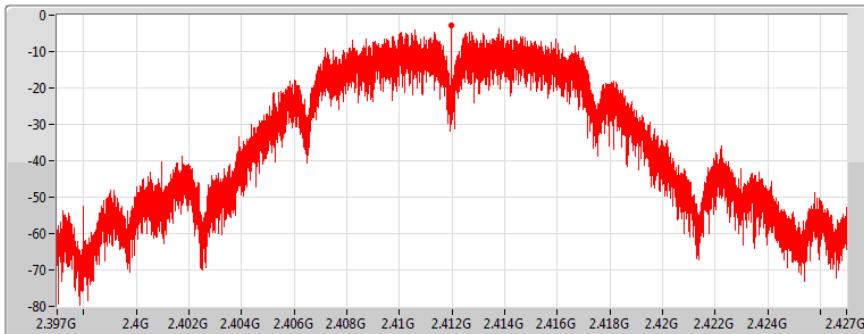
| Mode                            | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | Port 3<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|---------------------------------|--------|-------------|---------------------|---------------------|---------------------|-----------------|-----------------------|
| 802.11b_Nss1,(1Mbps)_1TX(Port2) | -      | -           | -                   | -                   | -                   | -               | -                     |
| 2412MHz                         | Pass   | 3.93        |                     | -2.85               |                     | -2.85           | 8.00                  |
| 2437MHz                         | Pass   | 3.93        |                     | -2.60               |                     | -2.60           | 8.00                  |
| 2462MHz                         | Pass   | 3.93        |                     | -2.75               |                     | -2.75           | 8.00                  |
| 802.11g_Nss1,(6Mbps)_1TX(Port2) | -      | -           | -                   | -                   | -                   | -               | -                     |
| 2412MHz                         | Pass   | 3.93        |                     | -7.46               |                     | -7.46           | 8.00                  |
| 2437MHz                         | Pass   | 3.93        |                     | -5.02               |                     | -5.02           | 8.00                  |
| 2462MHz                         | Pass   | 3.93        |                     | -8.65               |                     | -8.65           | 8.00                  |
| 802.11n HT20_Nss1,(MCS0)_3TX    | -      | -           | -                   | -                   | -                   | -               | -                     |
| 2412MHz                         | Pass   | 8.70        | -12.10              | -9.73               | -11.93              | -9.20           | 5.30                  |
| 2437MHz                         | Pass   | 8.70        | -4.98               | -4.17               | -6.62               | -3.74           | 5.30                  |
| 2462MHz                         | Pass   | 8.70        | -12.46              | -10.45              | -12.01              | -9.24           | 5.30                  |
| 802.11n HT40_Nss1,(MCS0)_3TX    | -      | -           | -                   | -                   | -                   | -               | -                     |
| 2422MHz                         | Pass   | 8.70        | -17.09              | -12.12              | -17.56              | -11.68          | 5.30                  |
| 2437MHz                         | Pass   | 8.70        | -13.91              | -10.71              | -14.50              | -10.54          | 5.30                  |
| 2452MHz                         | Pass   | 8.70        | -17.93              | -13.90              | -18.03              | -13.60          | 5.30                  |

**DG** = Directional Gain; RBW=3kHz;**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

**802.11b\_Nss1,(1Mbps)\_1TX(Port2)**
**PSD**
**2412MHz**

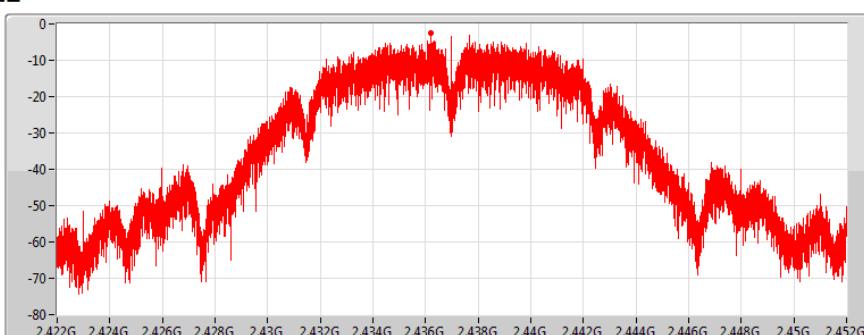
21/12/2018

|               |
|---------------|
| Ch Freq       |
| 2.412GHz      |
| Span          |
| 30MHz         |
| RBW           |
| 3kHz          |
| VBW           |
| 10kHz         |
| Sweep Time    |
| 334ms         |
| Detector Type |
| Peak          |


Port 2 
**802.11b\_Nss1,(1Mbps)\_1TX(Port2)**
**PSD**
**2437MHz**

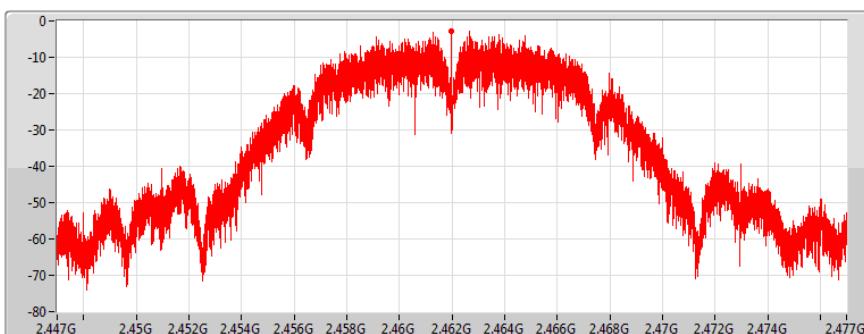
21/12/2018

|               |
|---------------|
| Ch Freq       |
| 2.437GHz      |
| Span          |
| 30MHz         |
| RBW           |
| 3kHz          |
| VBW           |
| 10kHz         |
| Sweep Time    |
| 334ms         |
| Detector Type |
| Peak          |

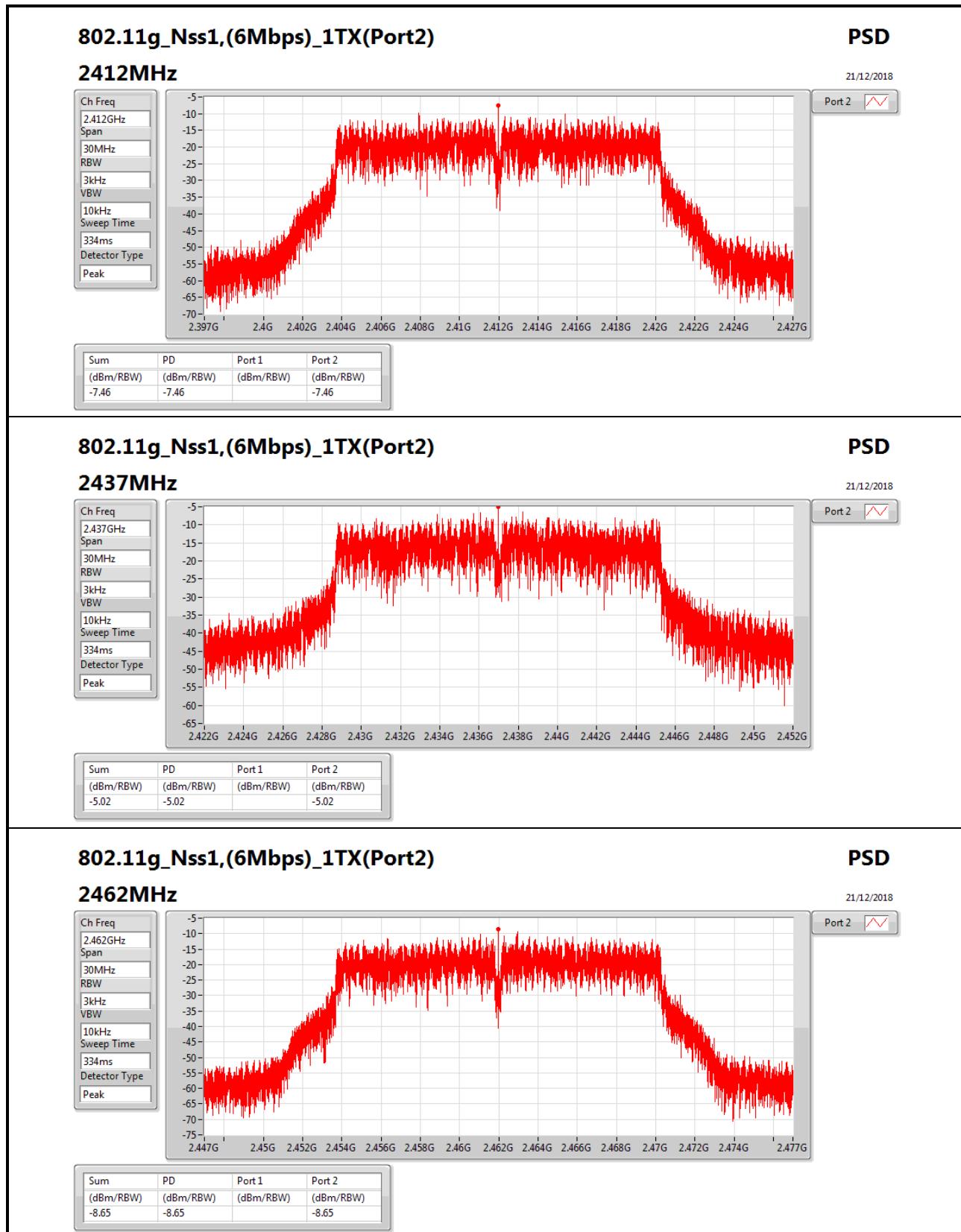

Port 2 
**802.11b\_Nss1,(1Mbps)\_1TX(Port2)**
**PSD**
**2462MHz**

21/12/2018

|               |
|---------------|
| Ch Freq       |
| 2.462GHz      |
| Span          |
| 30MHz         |
| RBW           |
| 3kHz          |
| VBW           |
| 10kHz         |
| Sweep Time    |
| 334ms         |
| Detector Type |
| Peak          |


Port 2 

|           |           |           |           |
|-----------|-----------|-----------|-----------|
| Sum       | PD        | Port 1    | Port 2    |
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |

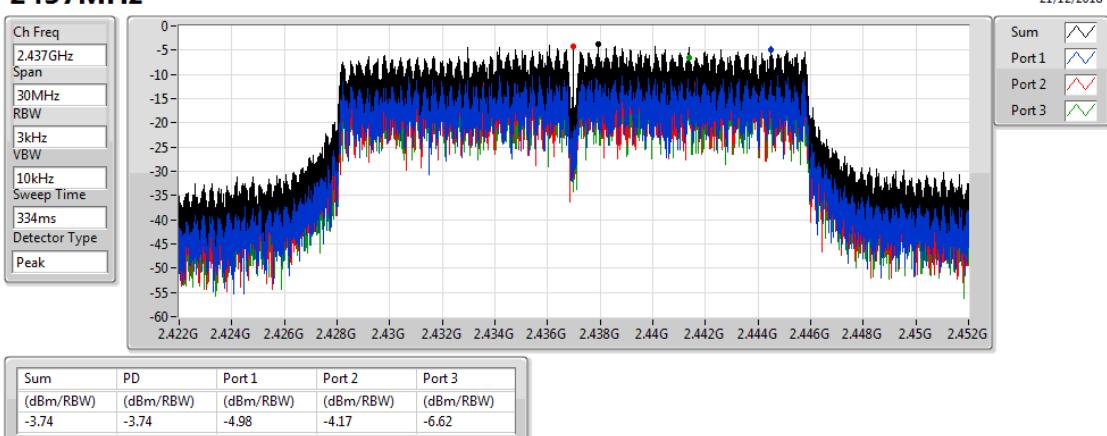


**802.11n HT20\_Nss1,(MCS0)\_3TX****2412MHz****PSD**

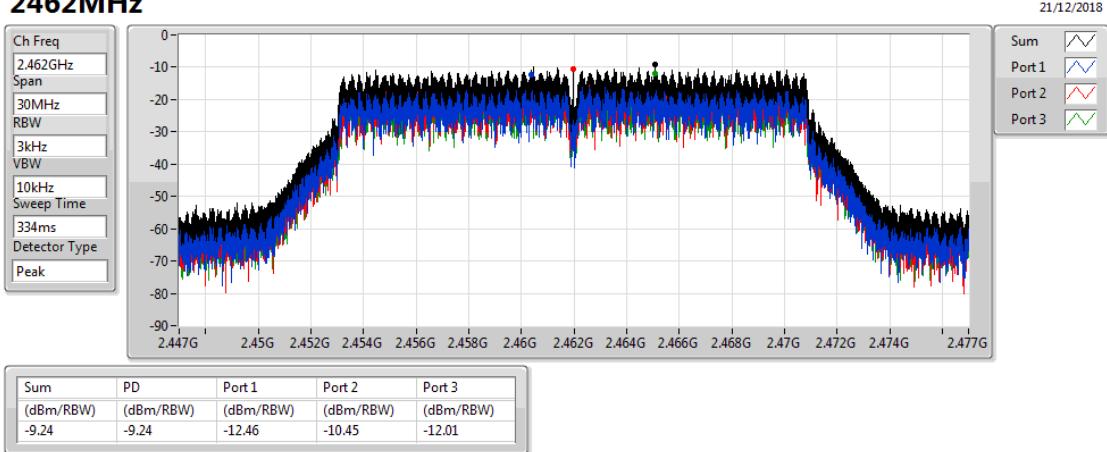
21/12/2018

**802.11n HT20\_Nss1,(MCS0)\_3TX****2437MHz****PSD**

21/12/2018

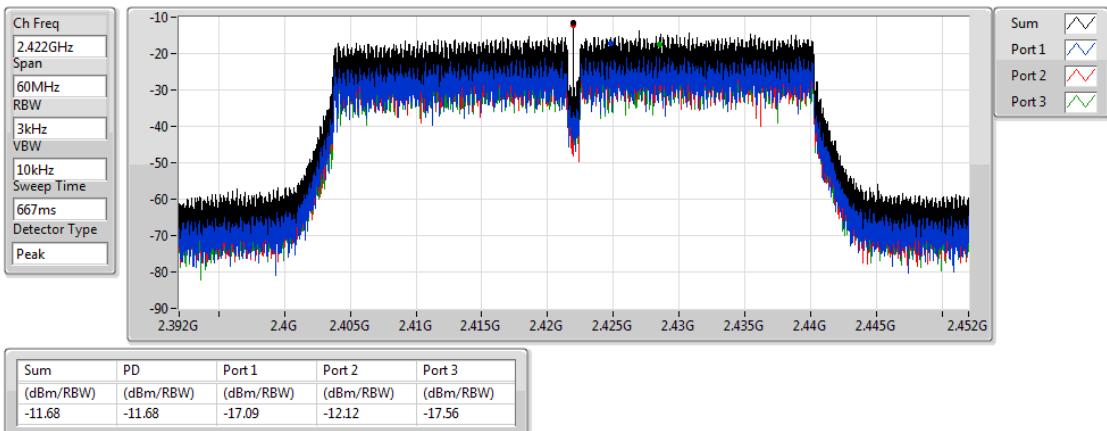
**802.11n HT20\_Nss1,(MCS0)\_3TX****2462MHz****PSD**

21/12/2018

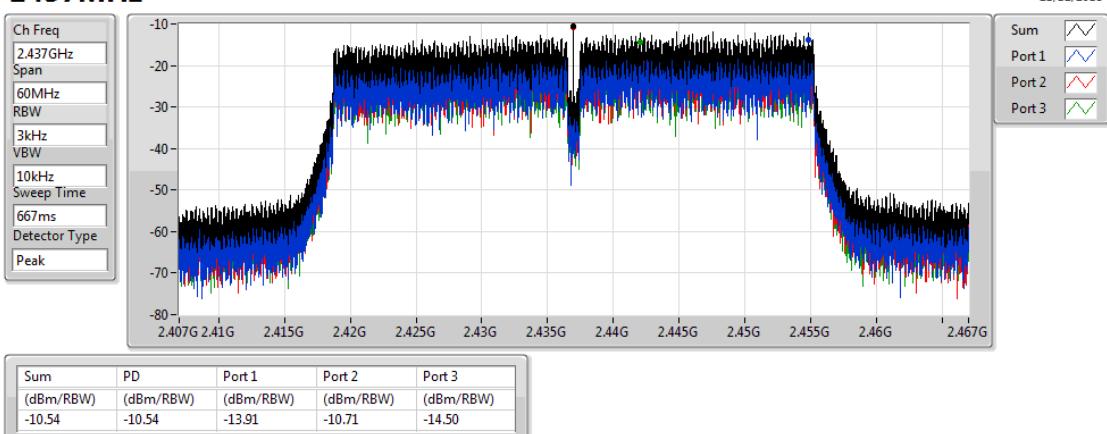


**802.11n HT40\_Nss1,(MCS0)\_3TX**
**2422MHz**
**PSD**

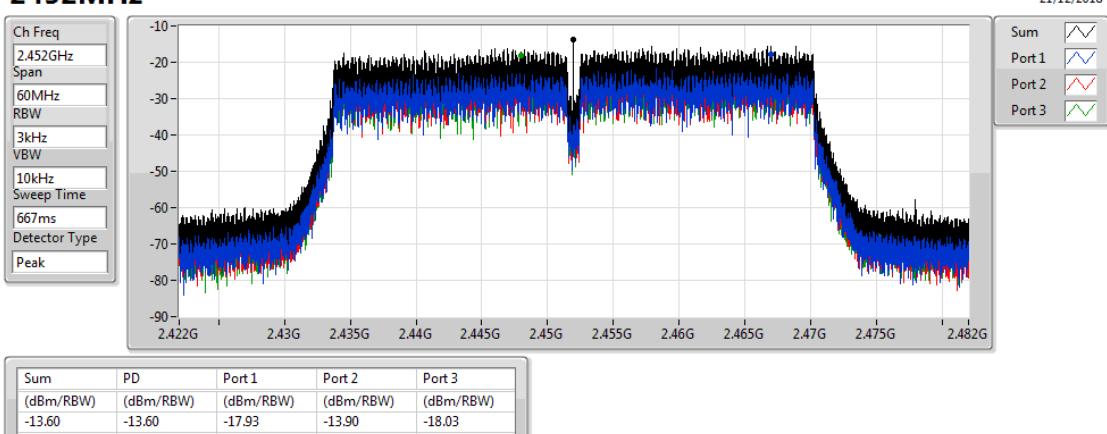
21/12/2018


**802.11n HT40\_Nss1,(MCS0)\_3TX**
**2437MHz**
**PSD**

21/12/2018


**802.11n HT40\_Nss1,(MCS0)\_3TX**
**2452MHz**
**PSD**

21/12/2018



**Summary**

| Mode                            | Result | Ref (Hz) | Ref (dBm) | Limit (dBm) | Freq (Hz) | Level (dBm) | Port |
|---------------------------------|--------|----------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|------|
| 2.4-2.4835GHz                   | -      | -        | -         | -           | -         | -           | -         | -           | -         | -           | -         | -           | -    |
| 802.11b_Nss1,(1Mbps)_1TX(Port2) | Pass   | 2.463G   | 10.57     | -19.43      | 2.11069G  | -53.01      | 2.399G    | -32.45      | 2.4915G   | -45.62      | 7.23514G  | -45.00      | 2    |
| 802.11g_Nss1,(6Mbps)_1TX(Port2) | Pass   | 2.43833G | 5.50      | -24.50      | 2.30932G  | -63.88      | 2.39984G  | -30.28      | 2.4932G   | -51.11      | 15.20306G | -52.24      | 2    |
| 802.11n HT20_Nss1,(MCS0)_3TX    | Pass   | 2.44075G | 8.33      | -21.67      | 2.03526G  | -60.64      | 2.39892G  | -30.47      | 2.4932G   | -52.84      | 16.34374G | -52.31      | 2    |
| 802.11n HT40_Nss1,(MCS0)_3TX    | Pass   | 2.43198G | 0.55      | -29.45      | 1.82794G  | -61.73      | 2.3996G   | -43.02      | 2.48606G  | -47.61      | 17.59035G | -51.12      | 2    |

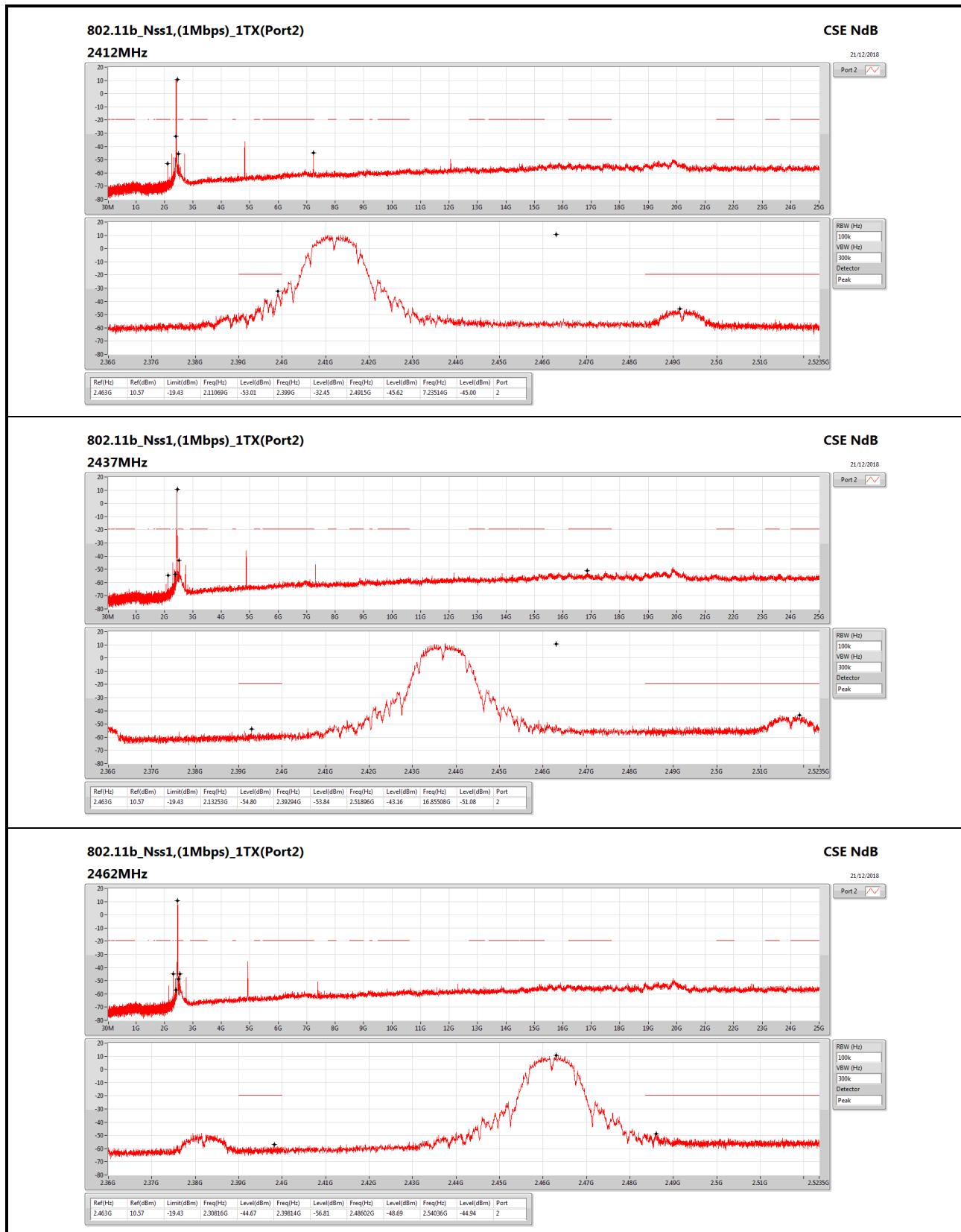
**Result**

| Mode                            | Result | Ref (Hz) | Ref (dBm) | Limit (dBm) | Freq (Hz) | Level (dBm) | Port |
|---------------------------------|--------|----------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|------|
| 802.11b_Nss1,(1Mbps)_1TX(Port2) | -      | -        | -         | -           | -         | -           | -         | -           | -         | -           | -         | -           | -    |
| 2412MHz                         | Pass   | 2.463G   | 10.57     | -19.43      | 2.11069G  | -53.01      | 2.399G    | -32.45      | 2.4915G   | -45.62      | 7.23514G  | -45.00      | 2    |
| 2437MHz                         | Pass   | 2.463G   | 10.57     | -19.43      | 2.13253G  | -54.80      | 2.39294G  | -53.84      | 2.51896G  | -43.16      | 16.85508G | -51.08      | 2    |
| 2462MHz                         | Pass   | 2.463G   | 10.57     | -19.43      | 2.30816G  | -44.67      | 2.39814G  | -56.81      | 2.48602G  | -48.69      | 2.54036G  | -44.94      | 2    |
| 802.11g_Nss1,(6Mbps)_1TX(Port2) | -      | -        | -         | -           | -         | -           | -         | -           | -         | -           | -         | -           | -    |
| 2412MHz                         | Pass   | 2.43833G | 5.50      | -24.50      | 2.30932G  | -63.88      | 2.39984G  | -30.28      | 2.4932G   | -51.11      | 15.20306G | -52.24      | 2    |
| 2437MHz                         | Pass   | 2.43833G | 5.50      | -24.50      | 2.30728G  | -62.27      | 2.39988G  | -46.16      | 2.5157G   | -44.39      | 2.5235G   | -50.78      | 2    |
| 2462MHz                         | Pass   | 2.43833G | 5.50      | -24.50      | 2.30816G  | -44.97      | 2.39918G  | -57.01      | 2.4836G   | -41.37      | 2.54036G  | -51.42      | 2    |
| 802.11n HT20_Nss1,(MCS0)_3TX    | -      | -        | -         | -           | -         | -           | -         | -           | -         | -           | -         | -           | -    |
| 2412MHz                         | Pass   | 2.44075G | 8.33      | -21.67      | 2.30932G  | -64.18      | 2.39876G  | -35.47      | 2.49796G  | -52.46      | 16.23697G | -51.79      | 1    |
| 2412MHz                         | Pass   | 2.44075G | 8.33      | -21.67      | 2.03526G  | -60.64      | 2.39892G  | -30.47      | 2.4932G   | -52.84      | 16.34374G | -52.31      | 2    |
| 2412MHz                         | Pass   | 2.44075G | 8.33      | -21.67      | 2.30175G  | -63.80      | 2.39794G  | -37.87      | 2.49698G  | -51.71      | 15.16934G | -52.01      | 3    |
| 2437MHz                         | Pass   | 2.44075G | 8.33      | -21.67      | 2.12001G  | -63.88      | 2.39922G  | -43.06      | 2.51948G  | -45.19      | 2.5235G   | -48.95      | 1    |
| 2437MHz                         | Pass   | 2.44075G | 8.33      | -21.67      | 2.30961G  | -62.17      | 2.39828G  | -43.22      | 2.52202G  | -46.55      | 16.20888G | -51.44      | 2    |
| 2437MHz                         | Pass   | 2.44075G | 8.33      | -21.67      | 2.30787G  | -64.30      | 2.39698G  | -44.27      | 2.5195G   | -44.87      | 2.5235G   | -49.91      | 3    |
| 2462MHz                         | Pass   | 2.44075G | 8.33      | -21.67      | 2.30816G  | -51.40      | 2.39014G  | -59.72      | 2.48444G  | -47.73      | 15.18901G | -52.35      | 1    |
| 2462MHz                         | Pass   | 2.44075G | 8.33      | -21.67      | 2.30816G  | -45.85      | 2.39024G  | -58.18      | 2.4841G   | -46.90      | 16.20326G | -51.51      | 2    |
| 2462MHz                         | Pass   | 2.44075G | 8.33      | -21.67      | 2.30816G  | -49.13      | 2.39046G  | -59.81      | 2.48514G  | -46.20      | 16.20607G | -51.10      | 3    |
| 802.11n HT40_Nss1,(MCS0)_3TX    | -      | -        | -         | -           | -         | -           | -         | -           | -         | -           | -         | -           | -    |
| 2422MHz                         | Pass   | 2.43198G | 0.55      | -29.45      | 2.30054G  | -65.00      | 2.39956G  | -44.76      | 2.49322G  | -54.67      | 16.2105G  | -51.92      | 1    |
| 2422MHz                         | Pass   | 2.43198G | 0.55      | -29.45      | 1.81649G  | -59.99      | 2.39952G  | -43.53      | 2.49946G  | -55.27      | 16.21331G | -51.71      | 2    |
| 2422MHz                         | Pass   | 2.43198G | 0.55      | -29.45      | 908.22M   | -64.16      | 2.39612G  | -43.47      | 2.5145G   | -55.19      | 17.47816G | -51.28      | 3    |
| 2437MHz                         | Pass   | 2.43198G | 0.55      | -29.45      | 2.1202G   | -63.96      | 2.39964G  | -45.52      | 2.48442G  | -47.20      | 17.4978G  | -52.30      | 1    |
| 2437MHz                         | Pass   | 2.43198G | 0.55      | -29.45      | 1.82794G  | -61.73      | 2.3996G   | -43.02      | 2.48606G  | -47.61      | 17.59035G | -51.12      | 2    |
| 2437MHz                         | Pass   | 2.43198G | 0.55      | -29.45      | 2.30025G  | -65.59      | 2.3998G   | -45.29      | 2.48354G  | -47.23      | 15.20366G | -52.19      | 3    |
| 2452MHz                         | Pass   | 2.43198G | 0.55      | -29.45      | 1.8391G   | -64.91      | 2.39944G  | -62.11      | 2.4845G   | -49.63      | 16.24696G | -51.27      | 1    |
| 2452MHz                         | Pass   | 2.43198G | 0.55      | -29.45      | 1.8391G   | -59.83      | 2.3902G   | -61.79      | 2.48446G  | -48.23      | 16.61155G | -51.12      | 2    |
| 2452MHz                         | Pass   | 2.43198G | 0.55      | -29.45      | 919.38M   | -63.59      | 2.39996G  | -62.81      | 2.48758G  | -49.53      | 17.59876G | -51.22      | 3    |



## CSE Non-restricted Band Result

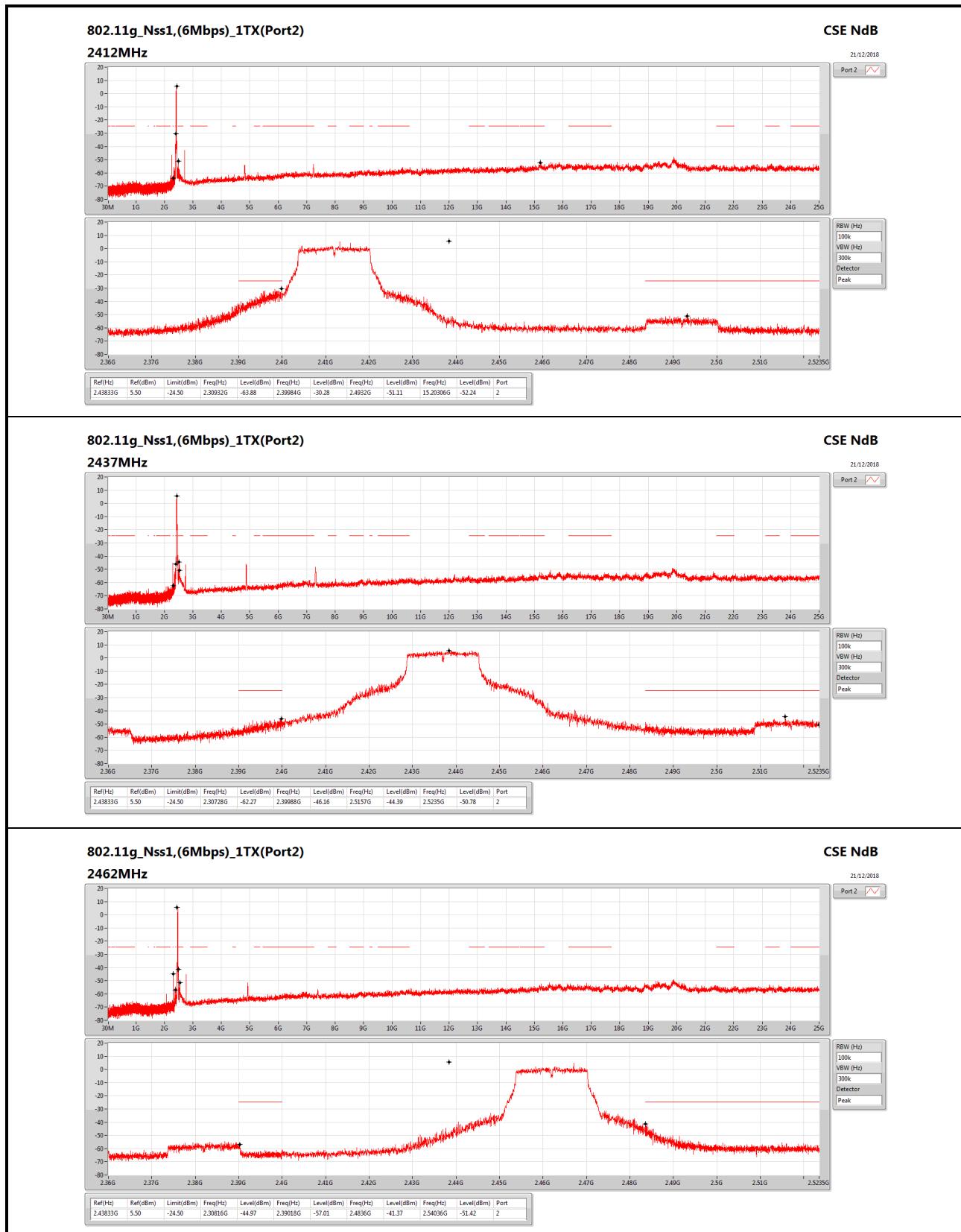
Appendix E

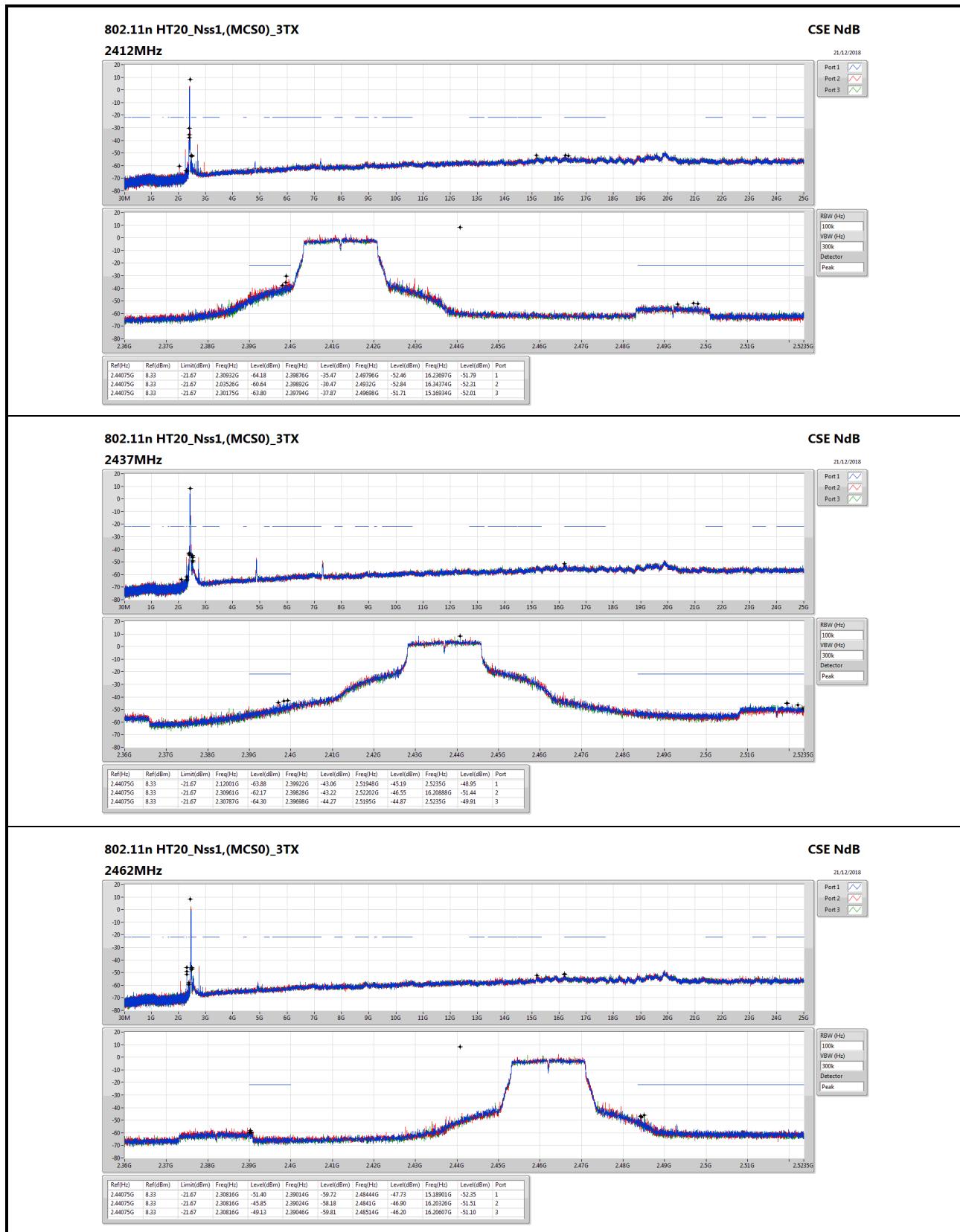


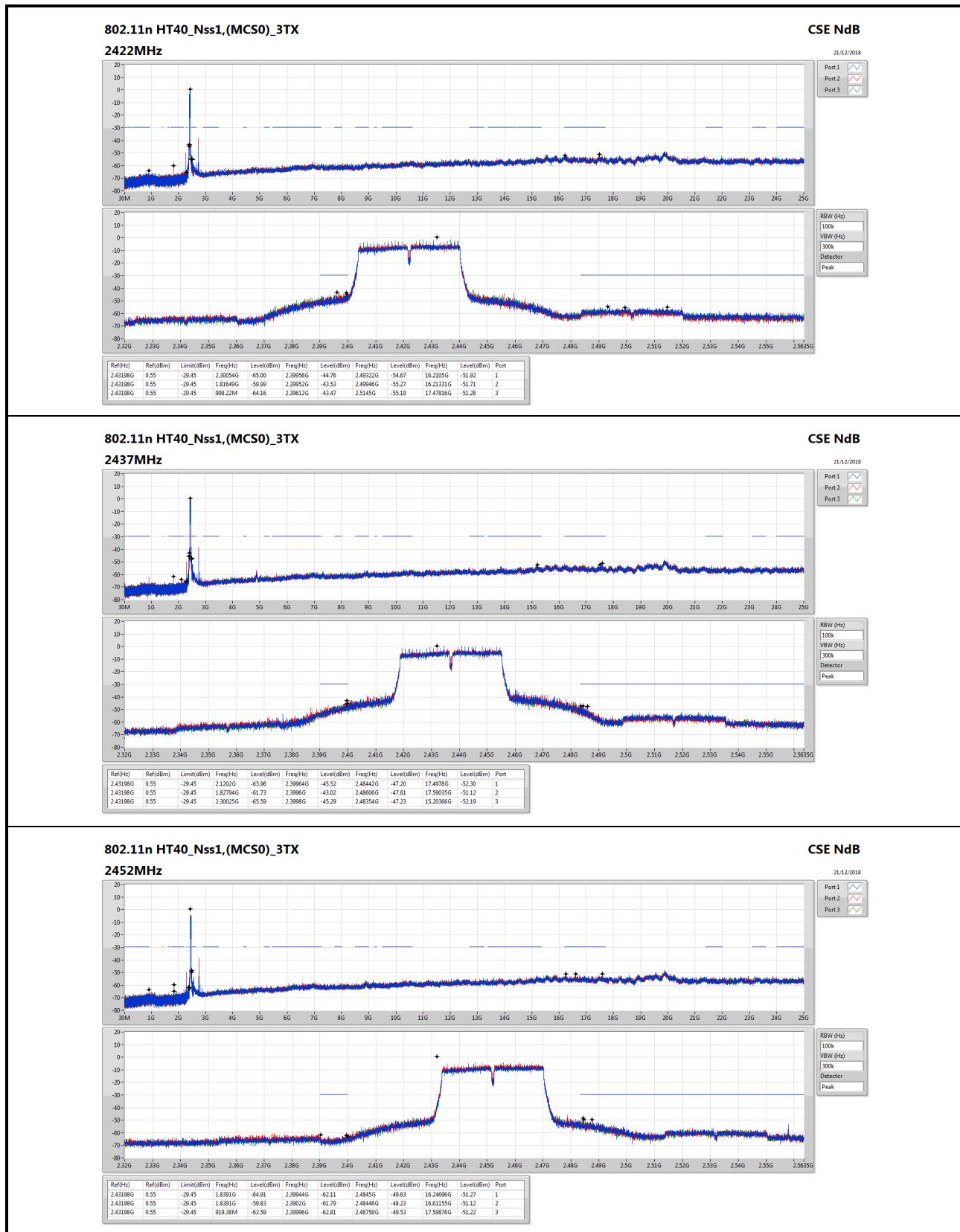


## CSE Non-restricted Band Result

Appendix E







**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)_3TX | Pass   | PK   | 30M          | 36.01             | 40.00             | -3.99          | -2.85          | 3           | Horizontal | 0              | 2.00          | -        |

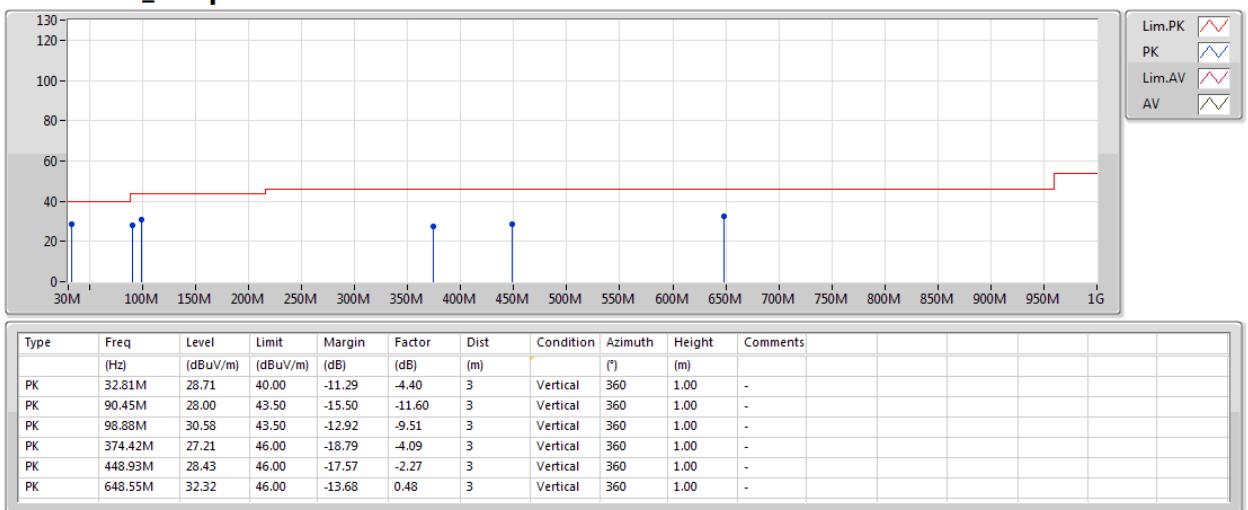


## Result

| Mode                         | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Comments |
|------------------------------|--------|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| 802.11n HT40_Nss1,(MCS0)_3TX | -      | -    | -         | -              | -              | -           | -           | -        | -          | -           | -          | -        |
| 2437MHz                      | Pass   | PK   | 32.81M    | 28.71          | 40.00          | -11.29      | -4.40       | 3        | Vertical   | 360         | 1.00       | -        |
| 2437MHz                      | Pass   | PK   | 90.45M    | 28.00          | 43.50          | -15.50      | -11.60      | 3        | Vertical   | 360         | 1.00       | -        |
| 2437MHz                      | Pass   | PK   | 98.88M    | 30.58          | 43.50          | -12.92      | -9.51       | 3        | Vertical   | 360         | 1.00       | -        |
| 2437MHz                      | Pass   | PK   | 374.42M   | 27.21          | 46.00          | -18.79      | -4.09       | 3        | Vertical   | 360         | 1.00       | -        |
| 2437MHz                      | Pass   | PK   | 448.93M   | 28.43          | 46.00          | -17.57      | -2.27       | 3        | Vertical   | 360         | 1.00       | -        |
| 2437MHz                      | Pass   | PK   | 648.55M   | 32.32          | 46.00          | -13.68      | 0.48        | 3        | Vertical   | 360         | 1.00       | -        |
| 2437MHz                      | Pass   | PK   | 30M       | 36.01          | 40.00          | -3.99       | -2.85       | 3        | Horizontal | 0           | 2.00       | -        |
| 2437MHz                      | Pass   | PK   | 198.7M    | 31.87          | 43.50          | -11.63      | -10.00      | 3        | Horizontal | 0           | 2.00       | -        |
| 2437MHz                      | Pass   | PK   | 298.51M   | 34.44          | 46.00          | -11.56      | -6.01       | 3        | Horizontal | 0           | 2.00       | -        |
| 2437MHz                      | Pass   | PK   | 374.42M   | 34.17          | 46.00          | -11.83      | -4.09       | 3        | Horizontal | 0           | 2.00       | -        |
| 2437MHz                      | Pass   | PK   | 398.32M   | 33.86          | 46.00          | -12.14      | -3.45       | 3        | Horizontal | 0           | 2.00       | -        |
| 2437MHz                      | Pass   | PK   | 448.93M   | 35.53          | 46.00          | -10.47      | -2.27       | 3        | Horizontal | 0           | 2.00       | -        |

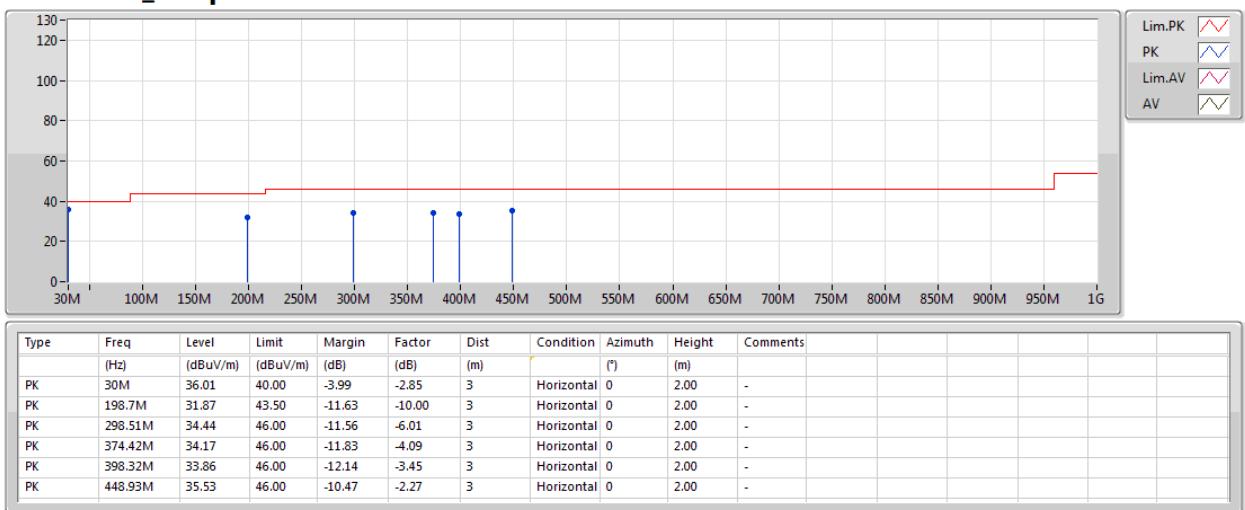
**802.11n HT40\_Nss1,(MCS0)\_3TX**

23/12/2018

**2437MHz\_Adapter**

**802.11n HT40\_Nss1,(MCS0)\_3TX**

23/12/2018

**2437MHz\_Adapter**



## 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   | 2.4835G      | 52.23             | 54.00             | -1.77          | 32.29          | 3           | Horizontal | 79             | 2.75          | -        |
| 802.11g_Nss1,(6Mbps)_1TX(Port2) | Pass   | AV   | 2.3898G      | 53.93             | 54.00             | -0.07          | 32.01          | 3           | Horizontal | 57             | 2.79          | -        |
| 802.11n HT20_Nss1,(MCS0)_3TX    | Pass   | AV   | 2.4846G      | 53.97             | 54.00             | -0.03          | 32.29          | 3           | Horizontal | 277            | 2.99          | -        |
| 802.11n HT40_Nss1,(MCS0)_3TX    | Pass   | AV   | 2.39G        | 53.92             | 54.00             | -0.08          | 32.01          | 3           | Horizontal | 266            | 1.00          | -        |



## Result

| Mode                            | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Comments |
|---------------------------------|--------|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| 802.11b_Nss1,(1Mbps)_1TX(Port2) | -      | -    | -         | -              | -              | -           | -           | -        | -          | -           | -          | -        |
| 2412MHz_TX                      | Pass   | AV   | 2.3896G   | 47.49          | 54.00          | -6.51       | 32.01       | 3        | Vertical   | 23          | 1.28       | -        |
| 2412MHz_TX                      | Pass   | AV   | 2.4132G   | 100.67         | Inf            | -Inf        | 32.08       | 3        | Vertical   | 23          | 1.28       | -        |
| 2412MHz_TX                      | Pass   | PK   | 2.366G    | 60.08          | 74.00          | -13.92      | 31.93       | 3        | Vertical   | 23          | 1.28       | -        |
| 2412MHz_TX                      | Pass   | PK   | 2.4128G   | 103.30         | Inf            | -Inf        | 32.08       | 3        | Vertical   | 23          | 1.28       | -        |
| 2412MHz_TX                      | Pass   | AV   | 2.39G     | 51.65          | 54.00          | -2.35       | 32.01       | 3        | Horizontal | 75          | 1.08       | -        |
| 2412MHz_TX                      | Pass   | AV   | 2.4138G   | 108.20         | Inf            | -Inf        | 32.08       | 3        | Horizontal | 75          | 1.08       | -        |
| 2412MHz_TX                      | Pass   | PK   | 2.387G    | 62.88          | 74.00          | -11.12      | 32.00       | 3        | Horizontal | 75          | 1.08       | -        |
| 2412MHz_TX                      | Pass   | PK   | 2.4128G   | 110.77         | Inf            | -Inf        | 32.08       | 3        | Horizontal | 75          | 1.08       | -        |
| 2412MHz_TX                      | Pass   | AV   | 4.824G    | 44.07          | 54.00          | -9.93       | 3.38        | 3        | Vertical   | 261         | 1.01       | -        |
| 2412MHz_TX                      | Pass   | PK   | 4.82394G  | 49.59          | 74.00          | -24.41      | 3.38        | 3        | Vertical   | 261         | 1.01       | -        |
| 2412MHz_TX                      | Pass   | AV   | 4.82394G  | 47.45          | 54.00          | -6.55       | 3.38        | 3        | Horizontal | 183         | 2.17       | -        |
| 2412MHz_TX                      | Pass   | PK   | 4.82394G  | 51.55          | 74.00          | -22.45      | 3.38        | 3        | Horizontal | 183         | 2.17       | -        |
| 2437MHz_TX                      | Pass   | AV   | 2.3586G   | 46.96          | 54.00          | -7.04       | 31.90       | 3        | Vertical   | 23          | 2.04       | -        |
| 2437MHz_TX                      | Pass   | AV   | 2.4362G   | 99.20          | Inf            | -Inf        | 32.15       | 3        | Vertical   | 23          | 2.04       | -        |
| 2437MHz_TX                      | Pass   | AV   | 2.499G    | 47.75          | 54.00          | -6.25       | 32.34       | 3        | Vertical   | 23          | 2.04       | -        |
| 2437MHz_TX                      | Pass   | PK   | 2.3426G   | 58.96          | 74.00          | -15.04      | 31.84       | 3        | Vertical   | 23          | 2.04       | -        |
| 2437MHz_TX                      | Pass   | PK   | 2.437G    | 101.93         | Inf            | -Inf        | 32.15       | 3        | Vertical   | 23          | 2.04       | -        |
| 2437MHz_TX                      | Pass   | PK   | 2.4982G   | 59.99          | 74.00          | -14.01      | 32.34       | 3        | Vertical   | 23          | 2.04       | -        |
| 2437MHz_TX                      | Pass   | AV   | 2.3578G   | 49.05          | 54.00          | -4.95       | 31.90       | 3        | Horizontal | 36          | 1.80       | -        |
| 2437MHz_TX                      | Pass   | AV   | 2.435G    | 107.62         | Inf            | -Inf        | 32.14       | 3        | Horizontal | 36          | 1.80       | -        |
| 2437MHz_TX                      | Pass   | AV   | 2.499G    | 48.22          | 54.00          | -5.78       | 32.34       | 3        | Horizontal | 36          | 1.80       | -        |
| 2437MHz_TX                      | Pass   | PK   | 2.3538G   | 59.93          | 74.00          | -14.07      | 31.88       | 3        | Horizontal | 36          | 1.80       | -        |
| 2437MHz_TX                      | Pass   | PK   | 2.437G    | 110.30         | Inf            | -Inf        | 32.15       | 3        | Horizontal | 36          | 1.80       | -        |
| 2437MHz_TX                      | Pass   | PK   | 2.497G    | 59.91          | 74.00          | -14.09      | 32.33       | 3        | Horizontal | 36          | 1.80       | -        |
| 2437MHz_TX                      | Pass   | AV   | 4.87395G  | 47.69          | 54.00          | -6.31       | 3.50        | 3        | Vertical   | 325         | 1.99       | -        |
| 2437MHz_TX                      | Pass   | PK   | 4.87395G  | 52.15          | 74.00          | -21.85      | 3.50        | 3        | Vertical   | 325         | 1.99       | -        |
| 2437MHz_TX                      | Pass   | AV   | 4.87398G  | 48.41          | 54.00          | -5.59       | 3.50        | 3        | Horizontal | 36          | 2.74       | -        |
| 2437MHz_TX                      | Pass   | PK   | 4.87396G  | 52.87          | 74.00          | -21.13      | 3.50        | 3        | Horizontal | 36          | 2.74       | -        |
| 2462MHz_TX                      | Pass   | AV   | 2.4632G   | 99.48          | Inf            | -Inf        | 32.23       | 3        | Vertical   | 25          | 1.50       | -        |
| 2462MHz_TX                      | Pass   | AV   | 2.4835G   | 48.57          | 54.00          | -5.43       | 32.29       | 3        | Vertical   | 25          | 1.50       | -        |
| 2462MHz_TX                      | Pass   | PK   | 2.462G    | 102.23         | Inf            | -Inf        | 32.23       | 3        | Vertical   | 25          | 1.50       | -        |
| 2462MHz_TX                      | Pass   | PK   | 2.4884G   | 60.10          | 74.00          | -13.90      | 32.30       | 3        | Vertical   | 25          | 1.50       | -        |
| 2462MHz_TX                      | Pass   | AV   | 2.4602G   | 109.05         | Inf            | -Inf        | 32.22       | 3        | Horizontal | 79          | 2.75       | -        |
| 2462MHz_TX                      | Pass   | AV   | 2.4835G   | 52.23          | 54.00          | -1.77       | 32.29       | 3        | Horizontal | 79          | 2.75       | -        |
| 2462MHz_TX                      | Pass   | PK   | 2.462G    | 111.81         | Inf            | -Inf        | 32.23       | 3        | Horizontal | 79          | 2.75       | -        |
| 2462MHz_TX                      | Pass   | PK   | 2.4838G   | 63.38          | 74.00          | -10.62      | 32.29       | 3        | Horizontal | 79          | 2.75       | -        |
| 2462MHz_TX                      | Pass   | AV   | 4.92396G  | 47.60          | 54.00          | -6.40       | 3.62        | 3        | Vertical   | 331         | 1.82       | -        |
| 2462MHz_TX                      | Pass   | PK   | 4.92399G  | 52.66          | 74.00          | -21.34      | 3.62        | 3        | Vertical   | 331         | 1.82       | -        |
| 2462MHz_TX                      | Pass   | AV   | 4.92398G  | 46.24          | 54.00          | -7.76       | 3.62        | 3        | Horizontal | 36          | 2.68       | -        |
| 2462MHz_TX                      | Pass   | PK   | 4.92417G  | 51.67          | 74.00          | -22.33      | 3.62        | 3        | Horizontal | 36          | 2.68       | -        |
| 802.11g_Nss1,(6Mbps)_1TX(Port2) | -      | -    | -         | -              | -              | -           | -           | -        | -          | -           | -          | -        |
| 2412MHz_TX                      | Pass   | AV   | 2.3898G   | 48.54          | 54.00          | -5.46       | 32.01       | 3        | Vertical   | 23          | 1.28       | -        |
| 2412MHz_TX                      | Pass   | AV   | 2.4128G   | 93.23          | Inf            | -Inf        | 32.08       | 3        | Vertical   | 23          | 1.28       | -        |
| 2412MHz_TX                      | Pass   | PK   | 2.3898G   | 61.95          | 74.00          | -12.05      | 32.01       | 3        | Vertical   | 23          | 1.28       | -        |
| 2412MHz_TX                      | Pass   | PK   | 2.412G    | 102.48         | Inf            | -Inf        | 32.08       | 3        | Vertical   | 23          | 1.28       | -        |
| 2412MHz_TX                      | Pass   | AV   | 2.39G     | 53.51          | 54.00          | -0.49       | 32.01       | 3        | Horizontal | 70          | 1.20       | -        |
| 2412MHz_TX                      | Pass   | AV   | 2.413G    | 101.25         | Inf            | -Inf        | 32.08       | 3        | Horizontal | 70          | 1.20       | -        |



## RSE TX above 1GHz Result

## Appendix F.2

| Mode       | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Comments |
|------------|--------|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| 2412MHz_TX | Pass   | PK   | 2.3898G   | 72.13          | 74.00          | -1.87       | 32.01       | 3        | Horizontal | 70          | 1.20       | -        |
| 2412MHz_TX | Pass   | PK   | 2.412G    | 110.33         | Inf            | -Inf        | 32.08       | 3        | Horizontal | 70          | 1.20       | -        |
| 2412MHz_TX | Pass   | AV   | 4.81242G  | 33.79          | 54.00          | -20.21      | 3.35        | 3        | Vertical   | 0           | 1.48       | -        |
| 2412MHz_TX | Pass   | PK   | 4.81938G  | 45.62          | 74.00          | -28.38      | 3.37        | 3        | Vertical   | 0           | 1.48       | -        |
| 2412MHz_TX | Pass   | AV   | 4.82436G  | 34.80          | 54.00          | -19.20      | 3.38        | 3        | Horizontal | 82          | 1.01       | -        |
| 2412MHz_TX | Pass   | PK   | 4.81806G  | 47.22          | 74.00          | -26.78      | 3.37        | 3        | Horizontal | 82          | 1.01       | -        |
| 2417MHz_TX | Pass   | AV   | 2.39G     | 51.86          | 54.00          | -2.14       | 32.01       | 3        | Vertical   | 161         | 1.05       | -        |
| 2417MHz_TX | Pass   | AV   | 2.4182G   | 97.50          | Inf            | -Inf        | 32.09       | 3        | Vertical   | 161         | 1.05       | -        |
| 2417MHz_TX | Pass   | PK   | 2.39G     | 64.46          | 74.00          | -9.54       | 32.01       | 3        | Vertical   | 161         | 1.05       | -        |
| 2417MHz_TX | Pass   | PK   | 2.417G    | 106.04         | Inf            | -Inf        | 32.09       | 3        | Vertical   | 161         | 1.05       | -        |
| 2417MHz_TX | Pass   | AV   | 2.3898G   | 53.93          | 54.00          | -0.07       | 32.01       | 3        | Horizontal | 57          | 2.79       | -        |
| 2417MHz_TX | Pass   | AV   | 2.4234G   | 103.26         | Inf            | -Inf        | 32.11       | 3        | Horizontal | 57          | 2.79       | -        |
| 2417MHz_TX | Pass   | PK   | 2.39G     | 66.89          | 74.00          | -7.11       | 32.01       | 3        | Horizontal | 57          | 2.79       | -        |
| 2417MHz_TX | Pass   | PK   | 2.417G    | 111.90         | Inf            | -Inf        | 32.09       | 3        | Horizontal | 57          | 2.79       | -        |
| 2422MHz_TX | Pass   | AV   | 2.3898G   | 51.86          | 54.00          | -2.14       | 32.01       | 3        | Vertical   | 161         | 1.04       | -        |
| 2422MHz_TX | Pass   | AV   | 2.423G    | 99.37          | Inf            | -Inf        | 32.11       | 3        | Vertical   | 161         | 1.04       | -        |
| 2422MHz_TX | Pass   | PK   | 2.3898G   | 65.71          | 74.00          | -8.29       | 32.01       | 3        | Vertical   | 161         | 1.04       | -        |
| 2422MHz_TX | Pass   | PK   | 2.422G    | 108.23         | Inf            | -Inf        | 32.10       | 3        | Vertical   | 161         | 1.04       | -        |
| 2422MHz_TX | Pass   | AV   | 2.39G     | 53.93          | 54.00          | -0.07       | 32.01       | 3        | Horizontal | 56          | 2.79       | -        |
| 2422MHz_TX | Pass   | AV   | 2.423G    | 104.97         | Inf            | -Inf        | 32.11       | 3        | Horizontal | 56          | 2.79       | -        |
| 2422MHz_TX | Pass   | PK   | 2.39G     | 67.95          | 74.00          | -6.05       | 32.01       | 3        | Horizontal | 56          | 2.79       | -        |
| 2422MHz_TX | Pass   | PK   | 2.422G    | 113.79         | Inf            | -Inf        | 32.10       | 3        | Horizontal | 56          | 2.79       | -        |
| 2437MHz_TX | Pass   | AV   | 2.3494G   | 47.45          | 54.00          | -6.55       | 31.87       | 3        | Vertical   | 26          | 1.44       | -        |
| 2437MHz_TX | Pass   | AV   | 2.4378G   | 95.84          | Inf            | -Inf        | 32.15       | 3        | Vertical   | 26          | 1.44       | -        |
| 2437MHz_TX | Pass   | AV   | 2.4974G   | 48.43          | 54.00          | -5.57       | 32.33       | 3        | Vertical   | 26          | 1.44       | -        |
| 2437MHz_TX | Pass   | PK   | 2.3498G   | 58.88          | 74.00          | -15.12      | 31.87       | 3        | Vertical   | 26          | 1.44       | -        |
| 2437MHz_TX | Pass   | PK   | 2.437G    | 104.65         | Inf            | -Inf        | 32.15       | 3        | Vertical   | 26          | 1.44       | -        |
| 2437MHz_TX | Pass   | PK   | 2.485G    | 59.42          | 74.00          | -14.58      | 32.29       | 3        | Vertical   | 26          | 1.44       | -        |
| 2437MHz_TX | Pass   | AV   | 2.3558G   | 49.41          | 54.00          | -4.59       | 31.89       | 3        | Horizontal | 75          | 1.00       | -        |
| 2437MHz_TX | Pass   | AV   | 2.4362G   | 104.88         | Inf            | -Inf        | 32.15       | 3        | Horizontal | 75          | 1.00       | -        |
| 2437MHz_TX | Pass   | AV   | 2.4835G   | 49.97          | 54.00          | -4.03       | 32.29       | 3        | Horizontal | 75          | 1.00       | -        |
| 2437MHz_TX | Pass   | PK   | 2.3898G   | 63.90          | 74.00          | -10.10      | 32.01       | 3        | Horizontal | 75          | 1.00       | -        |
| 2437MHz_TX | Pass   | PK   | 2.437G    | 114.02         | Inf            | -Inf        | 32.15       | 3        | Horizontal | 75          | 1.00       | -        |
| 2437MHz_TX | Pass   | PK   | 2.4854G   | 63.66          | 74.00          | -10.34      | 32.29       | 3        | Horizontal | 75          | 1.00       | -        |
| 2437MHz_TX | Pass   | AV   | 4.8725G   | 36.63          | 54.00          | -17.37      | 3.50        | 3        | Vertical   | 147         | 2.88       | -        |
| 2437MHz_TX | Pass   | PK   | 4.8728G   | 49.45          | 74.00          | -24.55      | 3.50        | 3        | Vertical   | 147         | 2.88       | -        |
| 2437MHz_TX | Pass   | AV   | 4.872G    | 36.68          | 54.00          | -17.32      | 3.50        | 3        | Horizontal | 62          | 2.86       | -        |
| 2437MHz_TX | Pass   | PK   | 4.8723G   | 49.12          | 74.00          | -24.88      | 3.50        | 3        | Horizontal | 62          | 2.86       | -        |
| 2447MHz_TX | Pass   | AV   | 2.448G    | 100.16         | Inf            | -Inf        | 32.19       | 3        | Vertical   | 161         | 1.02       | -        |
| 2447MHz_TX | Pass   | AV   | 2.4835G   | 50.59          | 54.00          | -3.41       | 32.29       | 3        | Vertical   | 161         | 1.02       | -        |
| 2447MHz_TX | Pass   | PK   | 2.447G    | 108.95         | Inf            | -Inf        | 32.18       | 3        | Vertical   | 161         | 1.02       | -        |
| 2447MHz_TX | Pass   | PK   | 2.486G    | 62.95          | 74.00          | -11.05      | 32.30       | 3        | Vertical   | 161         | 1.02       | -        |
| 2447MHz_TX | Pass   | AV   | 2.4534G   | 104.61         | Inf            | -Inf        | 32.20       | 3        | Horizontal | 59          | 2.74       | -        |
| 2447MHz_TX | Pass   | AV   | 2.4835G   | 53.20          | 54.00          | -0.80       | 32.29       | 3        | Horizontal | 59          | 2.74       | -        |
| 2447MHz_TX | Pass   | PK   | 2.447G    | 112.93         | Inf            | -Inf        | 32.18       | 3        | Horizontal | 59          | 2.74       | -        |
| 2447MHz_TX | Pass   | PK   | 2.4862G   | 65.52          | 74.00          | -8.48       | 32.30       | 3        | Horizontal | 59          | 2.74       | -        |
| 2452MHz_TX | Pass   | AV   | 2.4512G   | 99.35          | Inf            | -Inf        | 32.19       | 3        | Vertical   | 162         | 1.02       | -        |
| 2452MHz_TX | Pass   | AV   | 2.4835G   | 50.81          | 54.00          | -3.19       | 32.29       | 3        | Vertical   | 162         | 1.02       | -        |
| 2452MHz_TX | Pass   | PK   | 2.452G    | 108.15         | Inf            | -Inf        | 32.19       | 3        | Vertical   | 162         | 1.02       | -        |



## RSE TX above 1GHz Result

## Appendix F.2

| Mode                         | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Comments |
|------------------------------|--------|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| 2452MHz_TX                   | Pass   | PK   | 2.4854G   | 62.74          | 74.00          | -11.26      | 32.29       | 3        | Vertical   | 162         | 1.02       | -        |
| 2452MHz_TX                   | Pass   | AV   | 2.4586G   | 102.80         | Inf            | -Inf        | 32.22       | 3        | Horizontal | 61          | 2.99       | -        |
| 2452MHz_TX                   | Pass   | AV   | 2.4836G   | 53.67          | 54.00          | -0.33       | 32.29       | 3        | Horizontal | 61          | 2.99       | -        |
| 2452MHz_TX                   | Pass   | PK   | 2.452G    | 111.41         | Inf            | -Inf        | 32.19       | 3        | Horizontal | 61          | 2.99       | -        |
| 2452MHz_TX                   | Pass   | PK   | 2.486G    | 67.21          | 74.00          | -6.79       | 32.30       | 3        | Horizontal | 61          | 2.99       | -        |
| 2457MHz_TX                   | Pass   | AV   | 2.4562G   | 97.51          | Inf            | -Inf        | 32.20       | 3        | Vertical   | 163         | 1.01       | -        |
| 2457MHz_TX                   | Pass   | AV   | 2.4836G   | 50.81          | 54.00          | -3.19       | 32.29       | 3        | Vertical   | 163         | 1.01       | -        |
| 2457MHz_TX                   | Pass   | PK   | 2.457G    | 106.20         | Inf            | -Inf        | 32.21       | 3        | Vertical   | 163         | 1.01       | -        |
| 2457MHz_TX                   | Pass   | PK   | 2.4898G   | 62.86          | 74.00          | -11.14      | 32.31       | 3        | Vertical   | 163         | 1.01       | -        |
| 2457MHz_TX                   | Pass   | AV   | 2.458G    | 101.82         | Inf            | -Inf        | 32.21       | 3        | Horizontal | 63          | 2.99       | -        |
| 2457MHz_TX                   | Pass   | AV   | 2.4835G   | 53.82          | 54.00          | -0.18       | 32.29       | 3        | Horizontal | 63          | 2.99       | -        |
| 2457MHz_TX                   | Pass   | PK   | 2.457G    | 110.48         | Inf            | -Inf        | 32.21       | 3        | Horizontal | 63          | 2.99       | -        |
| 2457MHz_TX                   | Pass   | PK   | 2.4896G   | 66.84          | 74.00          | -7.16       | 32.31       | 3        | Horizontal | 63          | 2.99       | -        |
| 2462MHz_TX                   | Pass   | AV   | 2.4694G   | 98.83          | Inf            | -Inf        | 32.25       | 3        | Vertical   | 137         | 2.99       | -        |
| 2462MHz_TX                   | Pass   | AV   | 2.4835G   | 53.55          | 54.00          | -0.45       | 32.29       | 3        | Vertical   | 137         | 2.99       | -        |
| 2462MHz_TX                   | Pass   | PK   | 2.4686G   | 107.77         | Inf            | -Inf        | 32.24       | 3        | Vertical   | 137         | 2.99       | -        |
| 2462MHz_TX                   | Pass   | PK   | 2.4835G   | 72.27          | 74.00          | -1.73       | 32.29       | 3        | Vertical   | 137         | 2.99       | -        |
| 2462MHz_TX                   | Pass   | AV   | 2.461G    | 101.50         | Inf            | -Inf        | 32.23       | 3        | Horizontal | 79          | 2.74       | -        |
| 2462MHz_TX                   | Pass   | AV   | 2.4835G   | 53.91          | 54.00          | -0.09       | 32.29       | 3        | Horizontal | 79          | 2.74       | -        |
| 2462MHz_TX                   | Pass   | PK   | 2.462G    | 110.58         | Inf            | -Inf        | 32.23       | 3        | Horizontal | 79          | 2.74       | -        |
| 2462MHz_TX                   | Pass   | PK   | 2.4835G   | 71.58          | 74.00          | -2.42       | 32.29       | 3        | Horizontal | 79          | 2.74       | -        |
| 2462MHz_TX                   | Pass   | AV   | 4.9276G   | 34.36          | 54.00          | -19.64      | 3.64        | 3        | Vertical   | 336         | 2.25       | -        |
| 2462MHz_TX                   | Pass   | PK   | 4.92256G  | 45.92          | 74.00          | -28.08      | 3.62        | 3        | Vertical   | 336         | 2.25       | -        |
| 2462MHz_TX                   | Pass   | AV   | 4.92556G  | 34.40          | 54.00          | -19.60      | 3.64        | 3        | Horizontal | 143         | 1.02       | -        |
| 2462MHz_TX                   | Pass   | PK   | 4.92412G  | 45.83          | 74.00          | -28.17      | 3.62        | 3        | Horizontal | 143         | 1.02       | -        |
| 802.11n HT20_Nss1,(MCS0)_3TX | -      | -    | -         | -              | -              | -           | -           | -        | -          | -           | -          | -        |
| 2412MHz_TX                   | Pass   | AV   | 2.3896G   | 49.29          | 54.00          | -4.71       | 32.01       | 3        | Vertical   | 212         | 1.24       | -        |
| 2412MHz_TX                   | Pass   | AV   | 2.4102G   | 96.63          | Inf            | -Inf        | 32.07       | 3        | Vertical   | 212         | 1.24       | -        |
| 2412MHz_TX                   | Pass   | PK   | 2.3892G   | 63.61          | 74.00          | -10.39      | 32.00       | 3        | Vertical   | 212         | 1.24       | -        |
| 2412MHz_TX                   | Pass   | PK   | 2.4102G   | 104.52         | Inf            | -Inf        | 32.07       | 3        | Vertical   | 212         | 1.24       | -        |
| 2412MHz_TX                   | Pass   | AV   | 2.3898G   | 53.73          | 54.00          | -0.27       | 32.01       | 3        | Horizontal | 270         | 1.06       | -        |
| 2412MHz_TX                   | Pass   | AV   | 2.4148G   | 103.95         | Inf            | -Inf        | 32.09       | 3        | Horizontal | 270         | 1.06       | -        |
| 2412MHz_TX                   | Pass   | PK   | 2.3898G   | 69.02          | 74.00          | -4.98       | 32.01       | 3        | Horizontal | 270         | 1.06       | -        |
| 2412MHz_TX                   | Pass   | PK   | 2.42G     | 112.34         | Inf            | -Inf        | 32.10       | 3        | Horizontal | 270         | 1.06       | -        |
| 2412MHz_TX                   | Pass   | AV   | 4.82088G  | 34.10          | 54.00          | -19.90      | 3.38        | 3        | Vertical   | 169         | 2.65       | -        |
| 2412MHz_TX                   | Pass   | PK   | 4.80918G  | 46.10          | 74.00          | -27.90      | 3.35        | 3        | Vertical   | 169         | 2.65       | -        |
| 2412MHz_TX                   | Pass   | AV   | 4.82712G  | 34.76          | 54.00          | -19.24      | 3.40        | 3        | Horizontal | 322         | 2.87       | -        |
| 2412MHz_TX                   | Pass   | PK   | 4.82244G  | 46.59          | 74.00          | -27.41      | 3.38        | 3        | Horizontal | 322         | 2.87       | -        |
| 2417MHz_TX                   | Pass   | AV   | 2.39G     | 50.41          | 54.00          | -3.59       | 32.01       | 3        | Vertical   | 27          | 2.99       | -        |
| 2417MHz_TX                   | Pass   | AV   | 2.4176G   | 102.04         | Inf            | -Inf        | 32.09       | 3        | Vertical   | 27          | 2.99       | -        |
| 2417MHz_TX                   | Pass   | PK   | 2.3896G   | 63.30          | 74.00          | -10.70      | 32.01       | 3        | Vertical   | 27          | 2.99       | -        |
| 2417MHz_TX                   | Pass   | PK   | 2.4222G   | 109.80         | Inf            | -Inf        | 32.10       | 3        | Vertical   | 27          | 2.99       | -        |
| 2417MHz_TX                   | Pass   | AV   | 2.3896G   | 53.52          | 54.00          | -0.48       | 32.01       | 3        | Horizontal | 266         | 2.73       | -        |
| 2417MHz_TX                   | Pass   | AV   | 2.4198G   | 105.32         | Inf            | -Inf        | 32.10       | 3        | Horizontal | 266         | 2.73       | -        |
| 2417MHz_TX                   | Pass   | PK   | 2.39G     | 67.85          | 74.00          | -6.15       | 32.01       | 3        | Horizontal | 266         | 2.73       | -        |
| 2417MHz_TX                   | Pass   | PK   | 2.4196G   | 113.71         | Inf            | -Inf        | 32.10       | 3        | Horizontal | 266         | 2.73       | -        |
| 2422MHz_TX                   | Pass   | AV   | 2.388G    | 50.18          | 54.00          | -3.82       | 32.00       | 3        | Vertical   | 26          | 2.99       | -        |
| 2422MHz_TX                   | Pass   | AV   | 2.4228G   | 103.84         | Inf            | -Inf        | 32.10       | 3        | Vertical   | 26          | 2.99       | -        |
| 2422MHz_TX                   | Pass   | PK   | 2.3874G   | 63.44          | 74.00          | -10.56      | 32.00       | 3        | Vertical   | 26          | 2.99       | -        |



## RSE TX above 1GHz Result

## Appendix F.2

| Mode       | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Comments |
|------------|--------|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| 2422MHz_TX | Pass   | PK   | 2.4226G   | 111.53         | Inf            | -Inf        | 32.10       | 3        | Vertical   | 26          | 2.99       | -        |
| 2422MHz_TX | Pass   | AV   | 2.39G     | 53.24          | 54.00          | -0.76       | 32.01       | 3        | Horizontal | 265         | 2.72       | -        |
| 2422MHz_TX | Pass   | AV   | 2.4198G   | 106.57         | Inf            | -Inf        | 32.10       | 3        | Horizontal | 265         | 2.72       | -        |
| 2422MHz_TX | Pass   | PK   | 2.3898G   | 68.80          | 74.00          | -5.20       | 32.01       | 3        | Horizontal | 265         | 2.72       | -        |
| 2422MHz_TX | Pass   | PK   | 2.4246G   | 114.84         | Inf            | -Inf        | 32.11       | 3        | Horizontal | 265         | 2.72       | -        |
| 2427MHz_TX | Pass   | AV   | 2.3898G   | 49.79          | 54.00          | -4.21       | 32.01       | 3        | Vertical   | 98          | 2.78       | -        |
| 2427MHz_TX | Pass   | AV   | 2.435G    | 103.08         | Inf            | -Inf        | 32.14       | 3        | Vertical   | 98          | 2.78       | -        |
| 2427MHz_TX | Pass   | AV   | 2.4994G   | 49.97          | 54.00          | -4.03       | 32.34       | 3        | Vertical   | 98          | 2.78       | -        |
| 2427MHz_TX | Pass   | PK   | 2.3878G   | 62.75          | 74.00          | -11.25      | 32.00       | 3        | Vertical   | 98          | 2.78       | -        |
| 2427MHz_TX | Pass   | PK   | 2.429G    | 111.74         | Inf            | -Inf        | 32.13       | 3        | Vertical   | 98          | 2.78       | -        |
| 2427MHz_TX | Pass   | PK   | 2.4922G   | 60.51          | 74.00          | -13.49      | 32.32       | 3        | Vertical   | 98          | 2.78       | -        |
| 2427MHz_TX | Pass   | AV   | 2.3898G   | 52.95          | 54.00          | -1.05       | 32.01       | 3        | Horizontal | 273         | 2.72       | -        |
| 2427MHz_TX | Pass   | AV   | 2.4294G   | 108.48         | Inf            | -Inf        | 32.13       | 3        | Horizontal | 273         | 2.72       | -        |
| 2427MHz_TX | Pass   | AV   | 2.4998G   | 52.05          | 54.00          | -1.95       | 32.34       | 3        | Horizontal | 273         | 2.72       | -        |
| 2427MHz_TX | Pass   | PK   | 2.389G    | 66.81          | 74.00          | -7.19       | 32.00       | 3        | Horizontal | 273         | 2.72       | -        |
| 2427MHz_TX | Pass   | PK   | 2.4342G   | 116.43         | Inf            | -Inf        | 32.14       | 3        | Horizontal | 273         | 2.72       | -        |
| 2427MHz_TX | Pass   | PK   | 2.4998G   | 62.21          | 74.00          | -11.79      | 32.34       | 3        | Horizontal | 273         | 2.72       | -        |
| 2432MHz_TX | Pass   | AV   | 2.39G     | 48.67          | 54.00          | -5.33       | 32.01       | 3        | Vertical   | 97          | 2.77       | -        |
| 2432MHz_TX | Pass   | AV   | 2.4348G   | 103.29         | Inf            | -Inf        | 32.14       | 3        | Vertical   | 97          | 2.77       | -        |
| 2432MHz_TX | Pass   | AV   | 2.494G    | 49.23          | 54.00          | -4.77       | 32.33       | 3        | Vertical   | 97          | 2.77       | -        |
| 2432MHz_TX | Pass   | PK   | 2.3876G   | 60.94          | 74.00          | -13.06      | 32.00       | 3        | Vertical   | 97          | 2.77       | -        |
| 2432MHz_TX | Pass   | PK   | 2.434G    | 112.27         | Inf            | -Inf        | 32.14       | 3        | Vertical   | 97          | 2.77       | -        |
| 2432MHz_TX | Pass   | PK   | 2.4932G   | 60.83          | 74.00          | -13.17      | 32.32       | 3        | Vertical   | 97          | 2.77       | -        |
| 2432MHz_TX | Pass   | AV   | 2.39G     | 52.81          | 54.00          | -1.19       | 32.01       | 3        | Horizontal | 268         | 1.01       | -        |
| 2432MHz_TX | Pass   | AV   | 2.4348G   | 107.99         | Inf            | -Inf        | 32.14       | 3        | Horizontal | 268         | 1.01       | -        |
| 2432MHz_TX | Pass   | AV   | 2.486G    | 50.60          | 54.00          | -3.40       | 32.30       | 3        | Horizontal | 268         | 1.01       | -        |
| 2432MHz_TX | Pass   | PK   | 2.3896G   | 69.62          | 74.00          | -4.38       | 32.01       | 3        | Horizontal | 268         | 1.01       | -        |
| 2432MHz_TX | Pass   | PK   | 2.4344G   | 115.90         | Inf            | -Inf        | 32.14       | 3        | Horizontal | 268         | 1.01       | -        |
| 2432MHz_TX | Pass   | PK   | 2.4948G   | 61.87          | 74.00          | -12.13      | 32.33       | 3        | Horizontal | 268         | 1.01       | -        |
| 2437MHz_TX | Pass   | AV   | 2.3618G   | 49.04          | 54.00          | -4.96       | 31.91       | 3        | Vertical   | 149         | 2.99       | -        |
| 2437MHz_TX | Pass   | AV   | 2.4422G   | 103.65         | Inf            | -Inf        | 32.17       | 3        | Vertical   | 149         | 2.99       | -        |
| 2437MHz_TX | Pass   | AV   | 2.4866G   | 50.53          | 54.00          | -3.47       | 32.30       | 3        | Vertical   | 149         | 2.99       | -        |
| 2437MHz_TX | Pass   | PK   | 2.3766G   | 62.96          | 74.00          | -11.04      | 31.96       | 3        | Vertical   | 149         | 2.99       | -        |
| 2437MHz_TX | Pass   | PK   | 2.4418G   | 112.29         | Inf            | -Inf        | 32.17       | 3        | Vertical   | 149         | 2.99       | -        |
| 2437MHz_TX | Pass   | PK   | 2.4914G   | 63.58          | 74.00          | -10.42      | 32.31       | 3        | Vertical   | 149         | 2.99       | -        |
| 2437MHz_TX | Pass   | AV   | 2.3898G   | 49.47          | 54.00          | -4.53       | 32.01       | 3        | Horizontal | 285         | 2.99       | -        |
| 2437MHz_TX | Pass   | AV   | 2.4442G   | 110.25         | Inf            | -Inf        | 32.18       | 3        | Horizontal | 285         | 2.99       | -        |
| 2437MHz_TX | Pass   | AV   | 2.4838G   | 51.18          | 54.00          | -2.82       | 32.29       | 3        | Horizontal | 285         | 2.99       | -        |
| 2437MHz_TX | Pass   | PK   | 2.3898G   | 62.90          | 74.00          | -11.10      | 32.01       | 3        | Horizontal | 285         | 2.99       | -        |
| 2437MHz_TX | Pass   | PK   | 2.4438G   | 118.12         | Inf            | -Inf        | 32.18       | 3        | Horizontal | 285         | 2.99       | -        |
| 2437MHz_TX | Pass   | PK   | 2.4838G   | 63.80          | 74.00          | -10.20      | 32.29       | 3        | Horizontal | 285         | 2.99       | -        |
| 2437MHz_TX | Pass   | AV   | 4.87526G  | 36.40          | 54.00          | -17.60      | 3.52        | 3        | Vertical   | 152         | 1.50       | -        |
| 2437MHz_TX | Pass   | PK   | 4.88036G  | 49.65          | 74.00          | -24.35      | 3.52        | 3        | Vertical   | 152         | 1.50       | -        |
| 2437MHz_TX | Pass   | AV   | 4.87664G  | 44.51          | 54.00          | -9.49       | 3.52        | 3        | Horizontal | 264         | 2.60       | -        |
| 2437MHz_TX | Pass   | PK   | 4.87688G  | 58.46          | 74.00          | -15.54      | 3.52        | 3        | Horizontal | 264         | 2.60       | -        |
| 2447MHz_TX | Pass   | AV   | 2.375G    | 48.05          | 54.00          | -5.95       | 31.95       | 3        | Vertical   | 202         | 1.02       | -        |
| 2447MHz_TX | Pass   | AV   | 2.445G    | 101.08         | Inf            | -Inf        | 32.18       | 3        | Vertical   | 202         | 1.02       | -        |
| 2447MHz_TX | Pass   | AV   | 2.4846G   | 50.59          | 54.00          | -3.41       | 32.29       | 3        | Vertical   | 202         | 1.02       | -        |
| 2447MHz_TX | Pass   | PK   | 2.3742G   | 59.28          | 74.00          | -14.72      | 31.95       | 3        | Vertical   | 202         | 1.02       | -        |



## RSE TX above 1GHz Result

## Appendix F.2

| Mode                         | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Comments |
|------------------------------|--------|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| 2447MHz_TX                   | Pass   | PK   | 2.445G    | 109.07         | Inf            | -Inf        | 32.18       | 3        | Vertical   | 202         | 1.02       | -        |
| 2447MHz_TX                   | Pass   | PK   | 2.4846G   | 63.61          | 74.00          | -10.39      | 32.29       | 3        | Vertical   | 202         | 1.02       | -        |
| 2447MHz_TX                   | Pass   | AV   | 2.3698G   | 49.45          | 54.00          | -4.55       | 31.94       | 3        | Horizontal | 258         | 1.50       | -        |
| 2447MHz_TX                   | Pass   | AV   | 2.4454G   | 107.08         | Inf            | -Inf        | 32.18       | 3        | Horizontal | 258         | 1.50       | -        |
| 2447MHz_TX                   | Pass   | AV   | 2.4854G   | 52.70          | 54.00          | -1.30       | 32.29       | 3        | Horizontal | 258         | 1.50       | -        |
| 2447MHz_TX                   | Pass   | PK   | 2.3654G   | 59.71          | 74.00          | -14.29      | 31.93       | 3        | Horizontal | 258         | 1.50       | -        |
| 2447MHz_TX                   | Pass   | PK   | 2.4454G   | 114.71         | Inf            | -Inf        | 32.18       | 3        | Horizontal | 258         | 1.50       | -        |
| 2447MHz_TX                   | Pass   | PK   | 2.4842G   | 66.98          | 74.00          | -7.02       | 32.29       | 3        | Horizontal | 258         | 1.50       | -        |
| 2452MHz_TX                   | Pass   | AV   | 2.4596G   | 102.18         | Inf            | -Inf        | 32.22       | 3        | Vertical   | 93          | 2.71       | -        |
| 2452MHz_TX                   | Pass   | AV   | 2.4844G   | 52.70          | 54.00          | -1.30       | 32.29       | 3        | Vertical   | 93          | 2.71       | -        |
| 2452MHz_TX                   | Pass   | PK   | 2.455G    | 111.29         | Inf            | -Inf        | 32.20       | 3        | Vertical   | 93          | 2.71       | -        |
| 2452MHz_TX                   | Pass   | PK   | 2.485G    | 69.21          | 74.00          | -4.79       | 32.29       | 3        | Vertical   | 93          | 2.71       | -        |
| 2452MHz_TX                   | Pass   | AV   | 2.4542G   | 109.33         | Inf            | -Inf        | 32.20       | 3        | Horizontal | 277         | 2.99       | -        |
| 2452MHz_TX                   | Pass   | AV   | 2.4846G   | 53.97          | 54.00          | -0.03       | 32.29       | 3        | Horizontal | 277         | 2.99       | -        |
| 2452MHz_TX                   | Pass   | PK   | 2.454G    | 117.47         | Inf            | -Inf        | 32.20       | 3        | Horizontal | 277         | 2.99       | -        |
| 2452MHz_TX                   | Pass   | PK   | 2.4838G   | 70.55          | 74.00          | -3.45       | 32.29       | 3        | Horizontal | 277         | 2.99       | -        |
| 2457MHz_TX                   | Pass   | AV   | 2.465G    | 101.67         | Inf            | -Inf        | 32.24       | 3        | Vertical   | 98          | 2.99       | -        |
| 2457MHz_TX                   | Pass   | AV   | 2.485G    | 53.52          | 54.00          | -0.48       | 32.29       | 3        | Vertical   | 98          | 2.99       | -        |
| 2457MHz_TX                   | Pass   | PK   | 2.4594G   | 110.22         | Inf            | -Inf        | 32.22       | 3        | Vertical   | 98          | 2.99       | -        |
| 2457MHz_TX                   | Pass   | PK   | 2.4854G   | 66.88          | 74.00          | -7.12       | 32.29       | 3        | Vertical   | 98          | 2.99       | -        |
| 2457MHz_TX                   | Pass   | AV   | 2.4594G   | 108.04         | Inf            | -Inf        | 32.22       | 3        | Horizontal | 278         | 2.99       | -        |
| 2457MHz_TX                   | Pass   | AV   | 2.4838G   | 53.36          | 54.00          | -0.64       | 32.29       | 3        | Horizontal | 278         | 2.99       | -        |
| 2457MHz_TX                   | Pass   | PK   | 2.4594G   | 116.25         | Inf            | -Inf        | 32.22       | 3        | Horizontal | 278         | 2.99       | -        |
| 2457MHz_TX                   | Pass   | PK   | 2.484G    | 66.82          | 74.00          | -7.18       | 32.29       | 3        | Horizontal | 278         | 2.99       | -        |
| 2462MHz_TX                   | Pass   | AV   | 2.467G    | 100.27         | Inf            | -Inf        | 32.24       | 3        | Vertical   | 149         | 2.99       | -        |
| 2462MHz_TX                   | Pass   | AV   | 2.4848G   | 50.69          | 54.00          | -3.31       | 32.29       | 3        | Vertical   | 149         | 2.99       | -        |
| 2462MHz_TX                   | Pass   | PK   | 2.467G    | 108.32         | Inf            | -Inf        | 32.24       | 3        | Vertical   | 149         | 2.99       | -        |
| 2462MHz_TX                   | Pass   | PK   | 2.4835G   | 69.08          | 74.00          | -4.92       | 32.29       | 3        | Vertical   | 149         | 2.99       | -        |
| 2462MHz_TX                   | Pass   | AV   | 2.4592G   | 104.96         | Inf            | -Inf        | 32.22       | 3        | Horizontal | 286         | 2.99       | -        |
| 2462MHz_TX                   | Pass   | AV   | 2.4835G   | 53.55          | 54.00          | -0.45       | 32.29       | 3        | Horizontal | 286         | 2.99       | -        |
| 2462MHz_TX                   | Pass   | PK   | 2.459G    | 113.08         | Inf            | -Inf        | 32.22       | 3        | Horizontal | 286         | 2.99       | -        |
| 2462MHz_TX                   | Pass   | PK   | 2.4842G   | 72.75          | 74.00          | -1.25       | 32.29       | 3        | Horizontal | 286         | 2.99       | -        |
| 2462MHz_TX                   | Pass   | AV   | 4.92616G  | 37.01          | 54.00          | -16.99      | 3.64        | 3        | Vertical   | 189         | 2.99       | -        |
| 2462MHz_TX                   | Pass   | PK   | 4.9216G   | 48.77          | 74.00          | -25.23      | 3.62        | 3        | Vertical   | 189         | 2.99       | -        |
| 2462MHz_TX                   | Pass   | AV   | 4.92238G  | 37.75          | 54.00          | -16.25      | 3.62        | 3        | Horizontal | 264         | 1.34       | -        |
| 2462MHz_TX                   | Pass   | PK   | 4.92028G  | 50.81          | 74.00          | -23.19      | 3.62        | 3        | Horizontal | 264         | 1.34       | -        |
| 802.11n HT40_Nss1,(MCS0)_3TX | -      | -    | -         | -              | -              | -           | -           | -        | -          | -           | -          | -        |
| 2422MHz_TX                   | Pass   | AV   | 2.3876G   | 49.75          | 54.00          | -4.25       | 32.00       | 3        | Vertical   | 95          | 2.76       | -        |
| 2422MHz_TX                   | Pass   | AV   | 2.4368G   | 93.68          | Inf            | -Inf        | 32.15       | 3        | Vertical   | 95          | 2.76       | -        |
| 2422MHz_TX                   | Pass   | AV   | 2.488G    | 49.68          | 54.00          | -4.32       | 32.30       | 3        | Vertical   | 95          | 2.76       | -        |
| 2422MHz_TX                   | Pass   | PK   | 2.386G    | 60.47          | 74.00          | -13.53      | 32.00       | 3        | Vertical   | 95          | 2.76       | -        |
| 2422MHz_TX                   | Pass   | PK   | 2.4332G   | 102.19         | Inf            | -Inf        | 32.14       | 3        | Vertical   | 95          | 2.76       | -        |
| 2422MHz_TX                   | Pass   | PK   | 2.4864G   | 59.65          | 74.00          | -14.35      | 32.30       | 3        | Vertical   | 95          | 2.76       | -        |
| 2422MHz_TX                   | Pass   | AV   | 2.39G     | 53.92          | 54.00          | -0.08       | 32.01       | 3        | Horizontal | 266         | 1.00       | -        |
| 2422MHz_TX                   | Pass   | AV   | 2.43G     | 98.11          | Inf            | -Inf        | 32.13       | 3        | Horizontal | 266         | 1.00       | -        |
| 2422MHz_TX                   | Pass   | AV   | 2.4952G   | 50.41          | 54.00          | -3.59       | 32.33       | 3        | Horizontal | 266         | 1.00       | -        |
| 2422MHz_TX                   | Pass   | PK   | 2.39G     | 65.90          | 74.00          | -8.10       | 32.01       | 3        | Horizontal | 266         | 1.00       | -        |
| 2422MHz_TX                   | Pass   | PK   | 2.4248G   | 105.74         | Inf            | -Inf        | 32.11       | 3        | Horizontal | 266         | 1.00       | -        |
| 2422MHz_TX                   | Pass   | PK   | 2.498G    | 60.60          | 74.00          | -13.40      | 32.34       | 3        | Horizontal | 266         | 1.00       | -        |



## RSE TX above 1GHz Result

## Appendix F.2

| Mode       | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Comments |
|------------|--------|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| 2422MHz_TX | Pass   | AV   | 4.85702G  | 34.17          | 54.00          | -19.83      | 3.46        | 3        | Vertical   | 204         | 2.86       | -        |
| 2422MHz_TX | Pass   | PK   | 4.8392G   | 45.13          | 74.00          | -28.87      | 3.43        | 3        | Vertical   | 204         | 2.86       | -        |
| 2422MHz_TX | Pass   | AV   | 4.85894G  | 34.34          | 54.00          | -19.66      | 3.47        | 3        | Horizontal | 90          | 1.17       | -        |
| 2422MHz_TX | Pass   | PK   | 4.85114G  | 46.18          | 74.00          | -27.82      | 3.45        | 3        | Horizontal | 90          | 1.17       | -        |
| 2427MHz_TX | Pass   | AV   | 2.3894G   | 50.39          | 54.00          | -3.61       | 32.00       | 3        | Vertical   | 203         | 1.01       | -        |
| 2427MHz_TX | Pass   | AV   | 2.4402G   | 92.52          | Inf            | -Inf        | 32.16       | 3        | Vertical   | 203         | 1.01       | -        |
| 2427MHz_TX | Pass   | AV   | 2.499G    | 49.48          | 54.00          | -4.52       | 32.34       | 3        | Vertical   | 203         | 1.01       | -        |
| 2427MHz_TX | Pass   | PK   | 2.3898G   | 60.64          | 74.00          | -13.36      | 32.01       | 3        | Vertical   | 203         | 1.01       | -        |
| 2427MHz_TX | Pass   | PK   | 2.4402G   | 100.76         | Inf            | -Inf        | 32.16       | 3        | Vertical   | 203         | 1.01       | -        |
| 2427MHz_TX | Pass   | PK   | 2.4954G   | 59.97          | 74.00          | -14.03      | 32.33       | 3        | Vertical   | 203         | 1.01       | -        |
| 2427MHz_TX | Pass   | AV   | 2.3898G   | 53.24          | 54.00          | -0.76       | 32.01       | 3        | Horizontal | 264         | 1.00       | -        |
| 2427MHz_TX | Pass   | AV   | 2.4302G   | 99.08          | Inf            | -Inf        | 32.13       | 3        | Horizontal | 264         | 1.00       | -        |
| 2427MHz_TX | Pass   | AV   | 2.4998G   | 50.64          | 54.00          | -3.36       | 32.34       | 3        | Horizontal | 264         | 1.00       | -        |
| 2427MHz_TX | Pass   | PK   | 2.3898G   | 64.90          | 74.00          | -9.10       | 32.01       | 3        | Horizontal | 264         | 1.00       | -        |
| 2427MHz_TX | Pass   | PK   | 2.435G    | 107.05         | Inf            | -Inf        | 32.14       | 3        | Horizontal | 264         | 1.00       | -        |
| 2427MHz_TX | Pass   | PK   | 2.4894G   | 61.25          | 74.00          | -12.75      | 32.30       | 3        | Horizontal | 264         | 1.00       | -        |
| 2432MHz_TX | Pass   | AV   | 2.39G     | 50.60          | 54.00          | -3.40       | 32.01       | 3        | Vertical   | 205         | 1.02       | -        |
| 2432MHz_TX | Pass   | AV   | 2.4452G   | 93.38          | Inf            | -Inf        | 32.18       | 3        | Vertical   | 205         | 1.02       | -        |
| 2432MHz_TX | Pass   | AV   | 2.484G    | 49.67          | 54.00          | -4.33       | 32.29       | 3        | Vertical   | 205         | 1.02       | -        |
| 2432MHz_TX | Pass   | PK   | 2.3896G   | 61.57          | 74.00          | -12.43      | 32.01       | 3        | Vertical   | 205         | 1.02       | -        |
| 2432MHz_TX | Pass   | PK   | 2.44G     | 101.41         | Inf            | -Inf        | 32.16       | 3        | Vertical   | 205         | 1.02       | -        |
| 2432MHz_TX | Pass   | PK   | 2.4896G   | 59.73          | 74.00          | -14.27      | 32.31       | 3        | Vertical   | 205         | 1.02       | -        |
| 2432MHz_TX | Pass   | AV   | 2.39G     | 51.85          | 54.00          | -2.15       | 32.01       | 3        | Horizontal | 259         | 1.50       | -        |
| 2432MHz_TX | Pass   | AV   | 2.4452G   | 98.57          | Inf            | -Inf        | 32.18       | 3        | Horizontal | 259         | 1.50       | -        |
| 2432MHz_TX | Pass   | AV   | 2.4996G   | 50.20          | 54.00          | -3.80       | 32.34       | 3        | Horizontal | 259         | 1.50       | -        |
| 2432MHz_TX | Pass   | PK   | 2.39G     | 62.92          | 74.00          | -11.08      | 32.01       | 3        | Horizontal | 259         | 1.50       | -        |
| 2432MHz_TX | Pass   | PK   | 2.4452G   | 106.32         | Inf            | -Inf        | 32.18       | 3        | Horizontal | 259         | 1.50       | -        |
| 2432MHz_TX | Pass   | PK   | 2.4952G   | 60.91          | 74.00          | -13.09      | 32.33       | 3        | Horizontal | 259         | 1.50       | -        |
| 2437MHz_TX | Pass   | AV   | 2.3898G   | 49.13          | 54.00          | -4.87       | 32.01       | 3        | Vertical   | 202         | 1.01       | -        |
| 2437MHz_TX | Pass   | AV   | 2.4402G   | 93.46          | Inf            | -Inf        | 32.16       | 3        | Vertical   | 202         | 1.01       | -        |
| 2437MHz_TX | Pass   | AV   | 2.4846G   | 50.59          | 54.00          | -3.41       | 32.29       | 3        | Vertical   | 202         | 1.01       | -        |
| 2437MHz_TX | Pass   | PK   | 2.389G    | 59.70          | 74.00          | -14.30      | 32.00       | 3        | Vertical   | 202         | 1.01       | -        |
| 2437MHz_TX | Pass   | PK   | 2.4402G   | 101.06         | Inf            | -Inf        | 32.16       | 3        | Vertical   | 202         | 1.01       | -        |
| 2437MHz_TX | Pass   | PK   | 2.4846G   | 64.28          | 74.00          | -9.72       | 32.29       | 3        | Vertical   | 202         | 1.01       | -        |
| 2437MHz_TX | Pass   | AV   | 2.3898G   | 52.02          | 54.00          | -1.98       | 32.01       | 3        | Horizontal | 266         | 1.01       | -        |
| 2437MHz_TX | Pass   | AV   | 2.4398G   | 100.33         | Inf            | -Inf        | 32.16       | 3        | Horizontal | 266         | 1.01       | -        |
| 2437MHz_TX | Pass   | AV   | 2.4846G   | 53.66          | 54.00          | -0.34       | 32.29       | 3        | Horizontal | 266         | 1.01       | -        |
| 2437MHz_TX | Pass   | PK   | 2.3886G   | 63.33          | 74.00          | -10.67      | 32.00       | 3        | Horizontal | 266         | 1.01       | -        |
| 2437MHz_TX | Pass   | PK   | 2.4446G   | 108.26         | Inf            | -Inf        | 32.18       | 3        | Horizontal | 266         | 1.01       | -        |
| 2437MHz_TX | Pass   | PK   | 2.485G    | 68.15          | 74.00          | -5.85       | 32.29       | 3        | Horizontal | 266         | 1.01       | -        |
| 2437MHz_TX | Pass   | AV   | 4.88744G  | 35.12          | 54.00          | -18.88      | 3.54        | 3        | Vertical   | 176         | 2.97       | -        |
| 2437MHz_TX | Pass   | PK   | 4.88636G  | 46.34          | 74.00          | -27.66      | 3.54        | 3        | Vertical   | 176         | 2.97       | -        |
| 2437MHz_TX | Pass   | AV   | 4.88684G  | 36.07          | 54.00          | -17.93      | 3.54        | 3        | Horizontal | 269         | 2.92       | -        |
| 2437MHz_TX | Pass   | PK   | 4.87634G  | 46.89          | 74.00          | -27.11      | 3.52        | 3        | Horizontal | 269         | 2.92       | -        |
| 2442MHz_TX | Pass   | AV   | 2.39G     | 48.42          | 54.00          | -5.58       | 32.01       | 3        | Vertical   | 203         | 1.04       | -        |
| 2442MHz_TX | Pass   | AV   | 2.4452G   | 92.23          | Inf            | -Inf        | 32.18       | 3        | Vertical   | 203         | 1.04       | -        |
| 2442MHz_TX | Pass   | PK   | 2.4848G   | 50.59          | 54.00          | -3.41       | 32.29       | 3        | Vertical   | 203         | 1.04       | -        |
| 2442MHz_TX | Pass   | PK   | 2.3512G   | 58.93          | 74.00          | -15.07      | 31.87       | 3        | Vertical   | 203         | 1.04       | -        |
| 2442MHz_TX | Pass   | PK   | 2.4452G   | 99.79          | Inf            | -Inf        | 32.18       | 3        | Vertical   | 203         | 1.04       | -        |



## RSE TX above 1GHz Result

## Appendix F.2

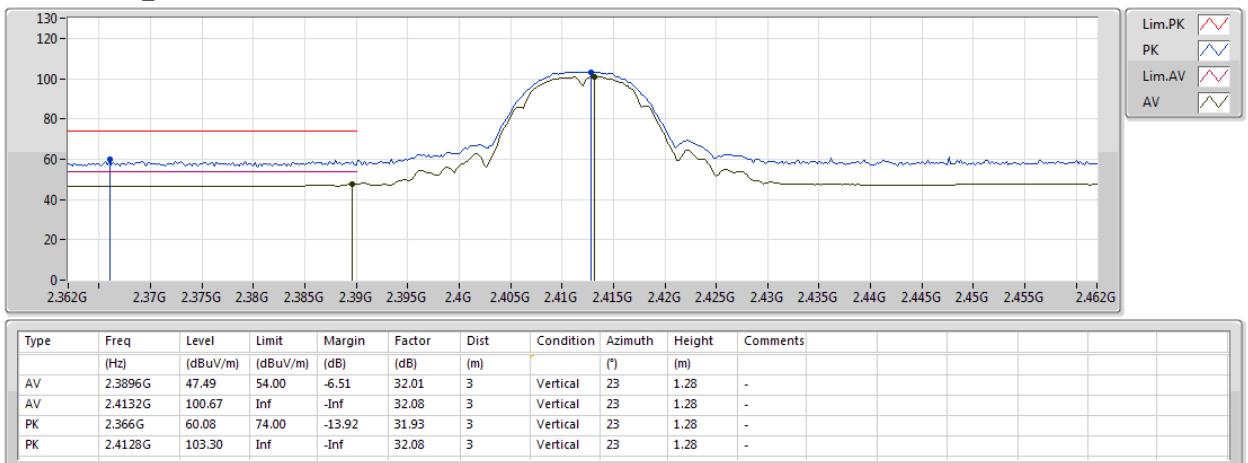
| Mode       | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 2442MHz_TX | Pass   | PK   | 2.4848G      | 63.57             | 74.00             | -10.43         | 32.29          | 3           | Vertical   | 203            | 1.04          | -        |
| 2442MHz_TX | Pass   | AV   | 2.3896G      | 48.66             | 54.00             | -5.34          | 32.01          | 3           | Horizontal | 258            | 1.49          | -        |
| 2442MHz_TX | Pass   | AV   | 2.4452G      | 98.48             | Inf               | -Inf           | 32.18          | 3           | Horizontal | 258            | 1.49          | -        |
| 2442MHz_TX | Pass   | AV   | 2.4852G      | 53.82             | 54.00             | -0.18          | 32.29          | 3           | Horizontal | 258            | 1.49          | -        |
| 2442MHz_TX | Pass   | PK   | 2.3436G      | 59.69             | 74.00             | -14.31         | 31.84          | 3           | Horizontal | 258            | 1.49          | -        |
| 2442MHz_TX | Pass   | PK   | 2.4452G      | 106.17            | Inf               | -Inf           | 32.18          | 3           | Horizontal | 258            | 1.49          | -        |
| 2442MHz_TX | Pass   | PK   | 2.4848G      | 69.72             | 74.00             | -4.28          | 32.29          | 3           | Horizontal | 258            | 1.49          | -        |
| 2447MHz_TX | Pass   | AV   | 2.3822G      | 48.33             | 54.00             | -5.67          | 31.98          | 3           | Vertical   | 98             | 2.99          | -        |
| 2447MHz_TX | Pass   | AV   | 2.465G       | 94.43             | Inf               | -Inf           | 32.24          | 3           | Vertical   | 98             | 2.99          | -        |
| 2447MHz_TX | Pass   | AV   | 2.4846G      | 53.03             | 54.00             | -0.97          | 32.29          | 3           | Vertical   | 98             | 2.99          | -        |
| 2447MHz_TX | Pass   | PK   | 2.3702G      | 59.27             | 74.00             | -14.73         | 31.94          | 3           | Vertical   | 98             | 2.99          | -        |
| 2447MHz_TX | Pass   | PK   | 2.4582G      | 102.65            | Inf               | -Inf           | 32.21          | 3           | Vertical   | 98             | 2.99          | -        |
| 2447MHz_TX | Pass   | PK   | 2.4878G      | 66.13             | 74.00             | -7.87          | 32.30          | 3           | Vertical   | 98             | 2.99          | -        |
| 2447MHz_TX | Pass   | AV   | 2.3494G      | 48.55             | 54.00             | -5.45          | 31.87          | 3           | Horizontal | 275            | 2.99          | -        |
| 2447MHz_TX | Pass   | AV   | 2.4594G      | 100.43            | Inf               | -Inf           | 32.22          | 3           | Horizontal | 275            | 2.99          | -        |
| 2447MHz_TX | Pass   | AV   | 2.4842G      | 53.82             | 54.00             | -0.18          | 32.29          | 3           | Horizontal | 275            | 2.99          | -        |
| 2447MHz_TX | Pass   | PK   | 2.357G       | 58.69             | 74.00             | -15.31         | 31.90          | 3           | Horizontal | 275            | 2.99          | -        |
| 2447MHz_TX | Pass   | PK   | 2.4594G      | 108.32            | Inf               | -Inf           | 32.22          | 3           | Horizontal | 275            | 2.99          | -        |
| 2447MHz_TX | Pass   | PK   | 2.4842G      | 66.98             | 74.00             | -7.02          | 32.29          | 3           | Horizontal | 275            | 2.99          | -        |
| 2452MHz_TX | Pass   | AV   | 2.3856G      | 48.36             | 54.00             | -5.64          | 32.00          | 3           | Vertical   | 138            | 2.99          | -        |
| 2452MHz_TX | Pass   | AV   | 2.4664G      | 93.65             | Inf               | -Inf           | 32.24          | 3           | Vertical   | 138            | 2.99          | -        |
| 2452MHz_TX | Pass   | AV   | 2.486G       | 51.62             | 54.00             | -2.38          | 32.30          | 3           | Vertical   | 138            | 2.99          | -        |
| 2452MHz_TX | Pass   | PK   | 2.3892G      | 58.75             | 74.00             | -15.25         | 32.00          | 3           | Vertical   | 138            | 2.99          | -        |
| 2452MHz_TX | Pass   | PK   | 2.4664G      | 102.01            | Inf               | -Inf           | 32.24          | 3           | Vertical   | 138            | 2.99          | -        |
| 2452MHz_TX | Pass   | PK   | 2.492G       | 64.40             | 74.00             | -9.60          | 32.32          | 3           | Vertical   | 138            | 2.99          | -        |
| 2452MHz_TX | Pass   | AV   | 2.3596G      | 48.49             | 54.00             | -5.51          | 31.90          | 3           | Horizontal | 277            | 2.99          | -        |
| 2452MHz_TX | Pass   | AV   | 2.4544G      | 99.54             | Inf               | -Inf           | 32.20          | 3           | Horizontal | 277            | 2.99          | -        |
| 2452MHz_TX | Pass   | AV   | 2.4844G      | 53.51             | 54.00             | -0.49          | 32.29          | 3           | Horizontal | 277            | 2.99          | -        |
| 2452MHz_TX | Pass   | PK   | 2.3812G      | 58.74             | 74.00             | -15.26         | 31.97          | 3           | Horizontal | 277            | 2.99          | -        |
| 2452MHz_TX | Pass   | PK   | 2.4588G      | 107.56            | Inf               | -Inf           | 32.22          | 3           | Horizontal | 277            | 2.99          | -        |
| 2452MHz_TX | Pass   | PK   | 2.4844G      | 65.84             | 74.00             | -8.16          | 32.29          | 3           | Horizontal | 277            | 2.99          | -        |
| 2452MHz_TX | Pass   | AV   | 4.91618G     | 35.47             | 54.00             | -18.53         | 3.61           | 3           | Vertical   | 126            | 2.84          | -        |
| 2452MHz_TX | Pass   | PK   | 4.90418G     | 46.24             | 74.00             | -27.76         | 3.58           | 3           | Vertical   | 126            | 2.84          | -        |
| 2452MHz_TX | Pass   | AV   | 4.91264G     | 35.77             | 54.00             | -18.23         | 3.60           | 3           | Horizontal | 258            | 2.90          | -        |
| 2452MHz_TX | Pass   | PK   | 4.9004G      | 46.68             | 74.00             | -27.32         | 3.57           | 3           | Horizontal | 258            | 2.90          | -        |



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

14/12/2018

## 2412MHz\_TX

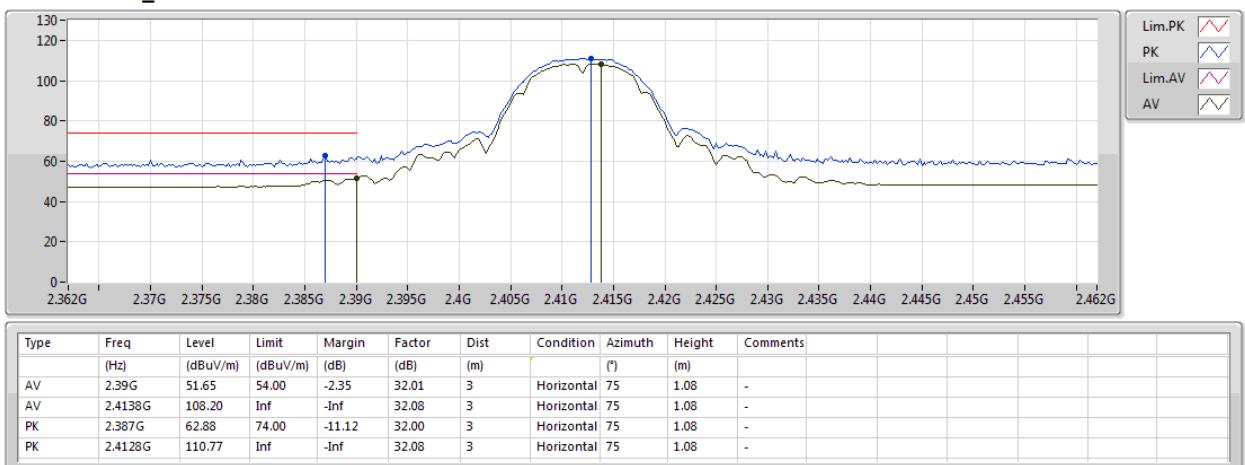




## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

14/12/2018

## 2412MHz\_TX

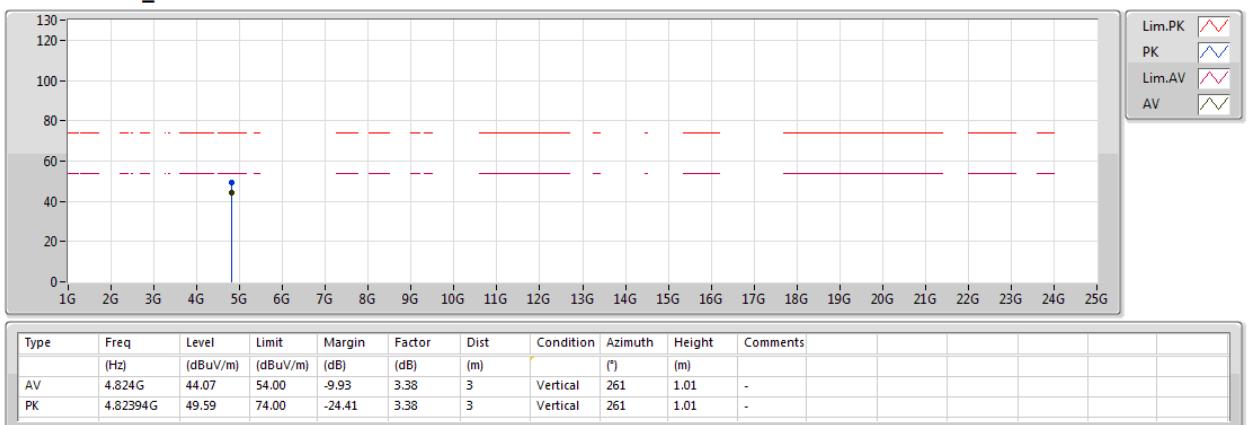




## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

14/12/2018

## 2412MHz\_TX

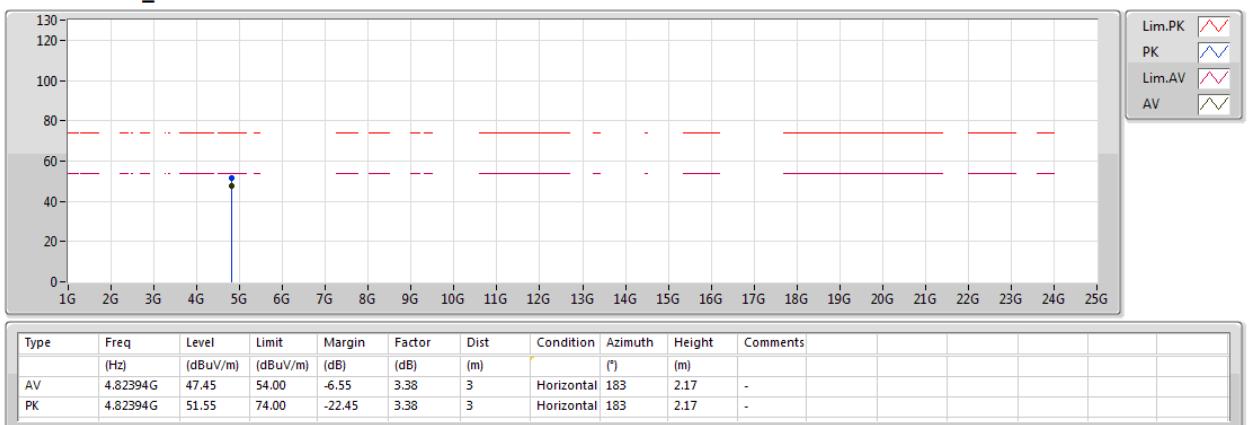




## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

14/12/2018

## 2412MHz\_TX

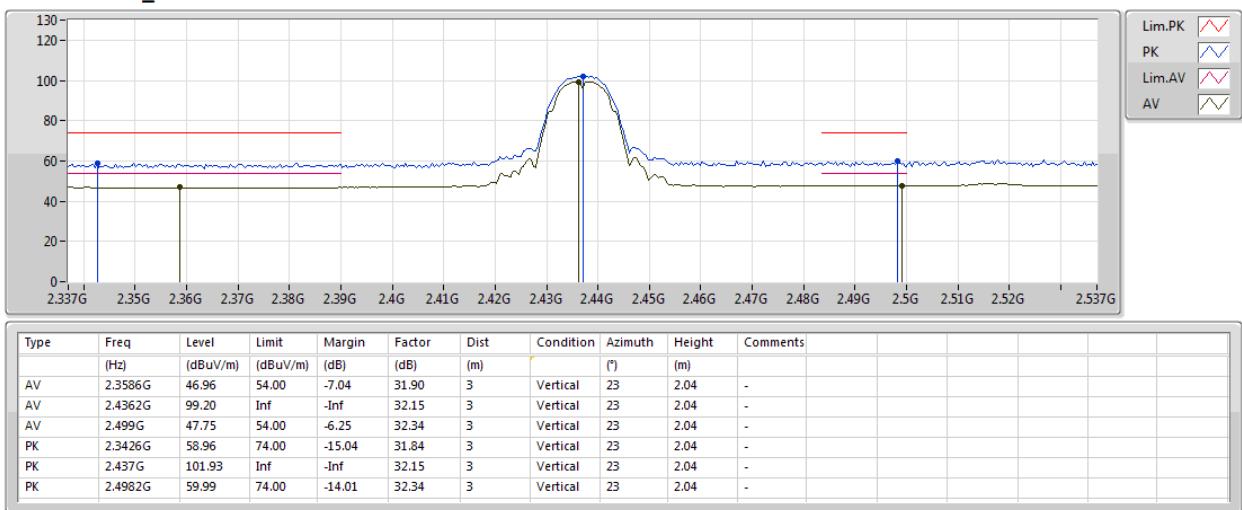




## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

14/12/2018

## 2437MHz\_TX

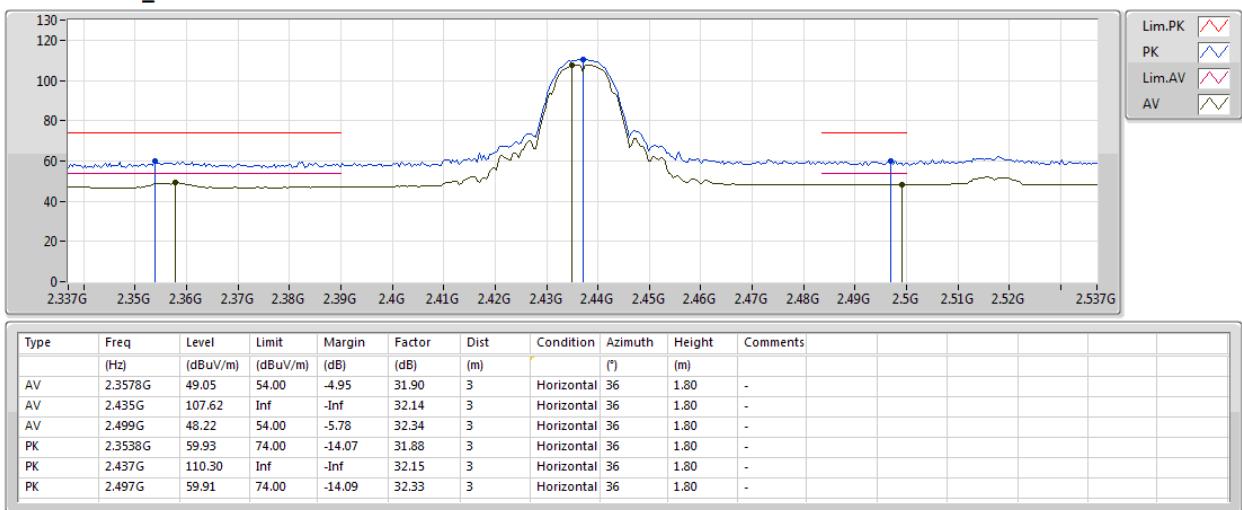




## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

14/12/2018

## 2437MHz\_TX

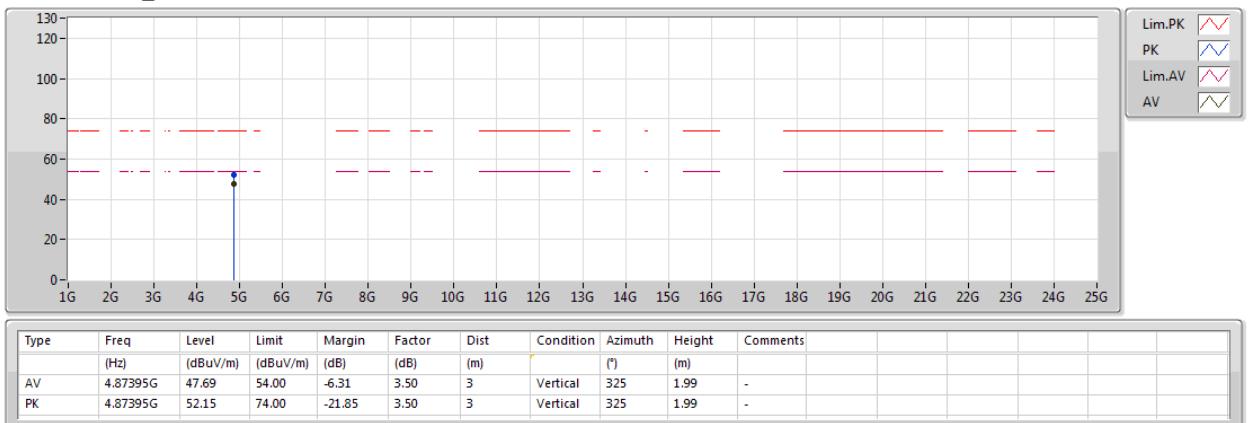




## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

14/12/2018

## 2437MHz\_TX

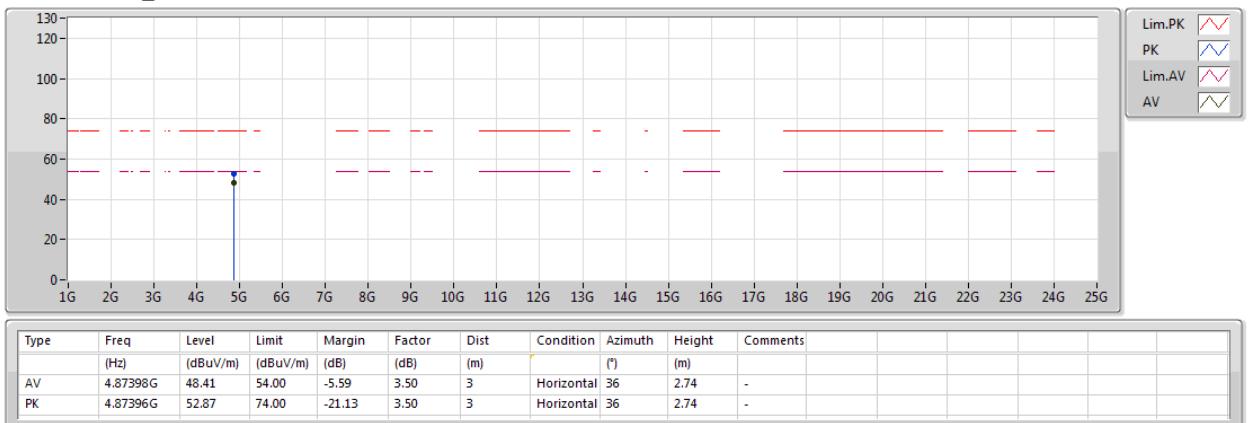




## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

14/12/2018

## 2437MHz\_TX

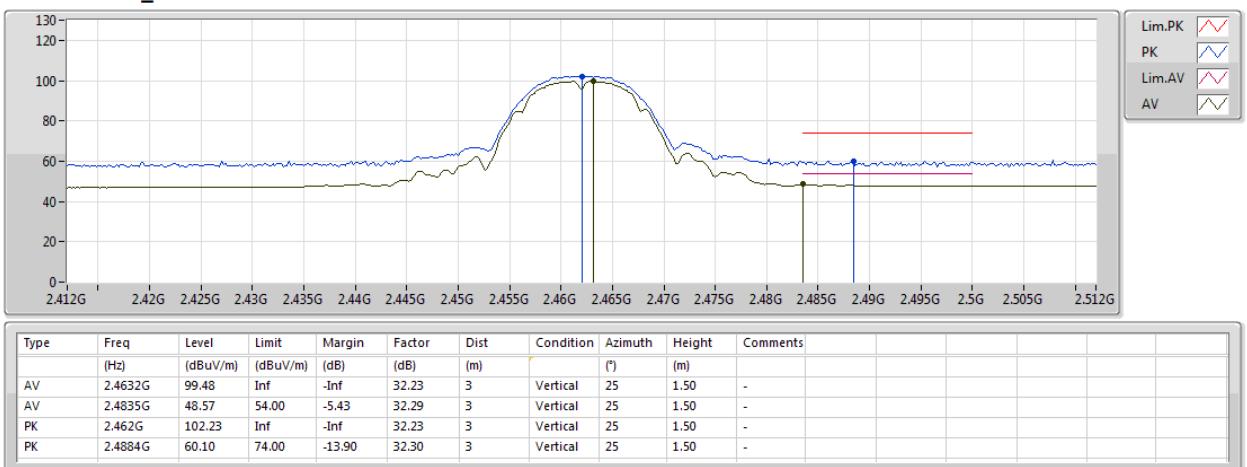




## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

14/12/2018

## 2462MHz\_TX

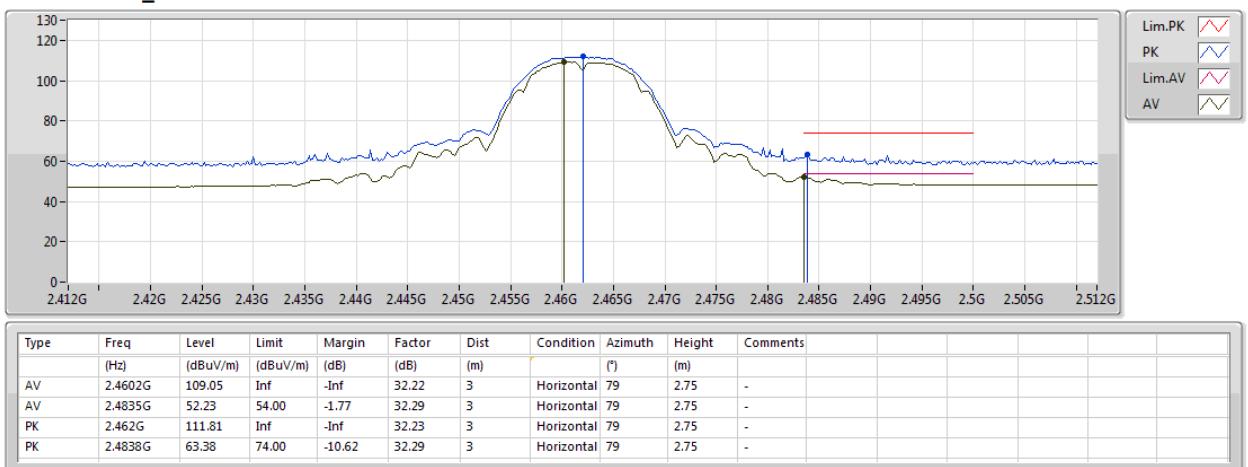




## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

14/12/2018

## 2462MHz\_TX

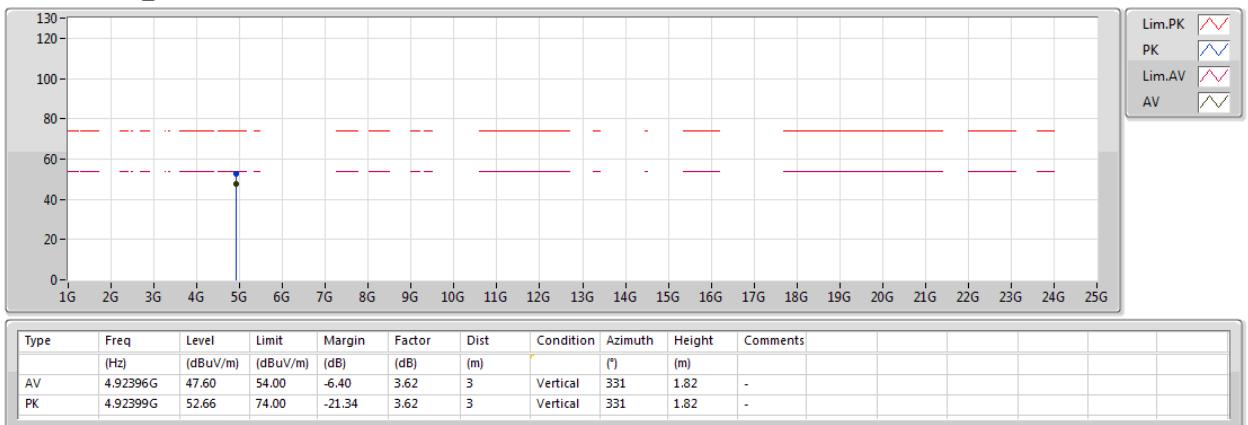




## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

14/12/2018

## 2462MHz\_TX

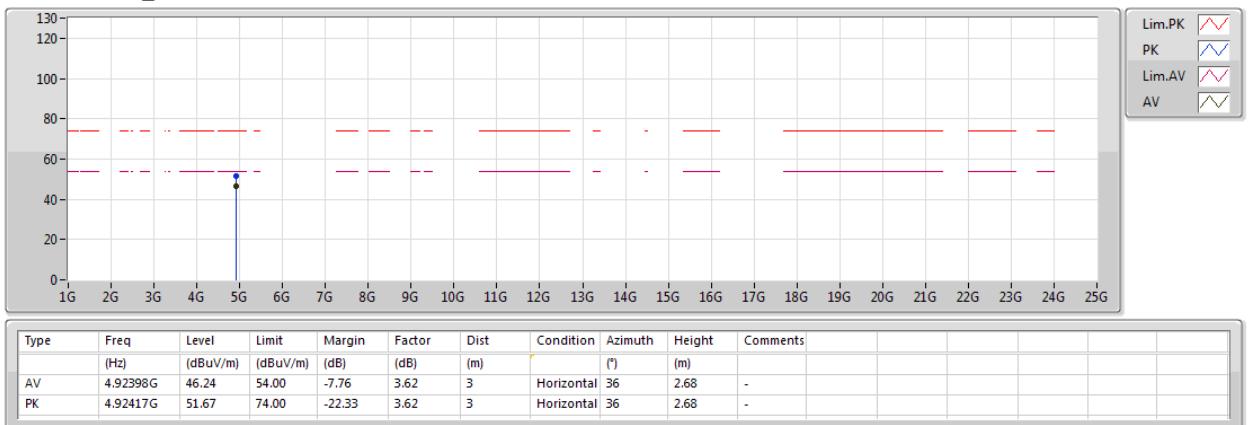




## 802.11b\_Nss1,(1Mbps)\_1TX(Port2)

14/12/2018

## 2462MHz\_TX

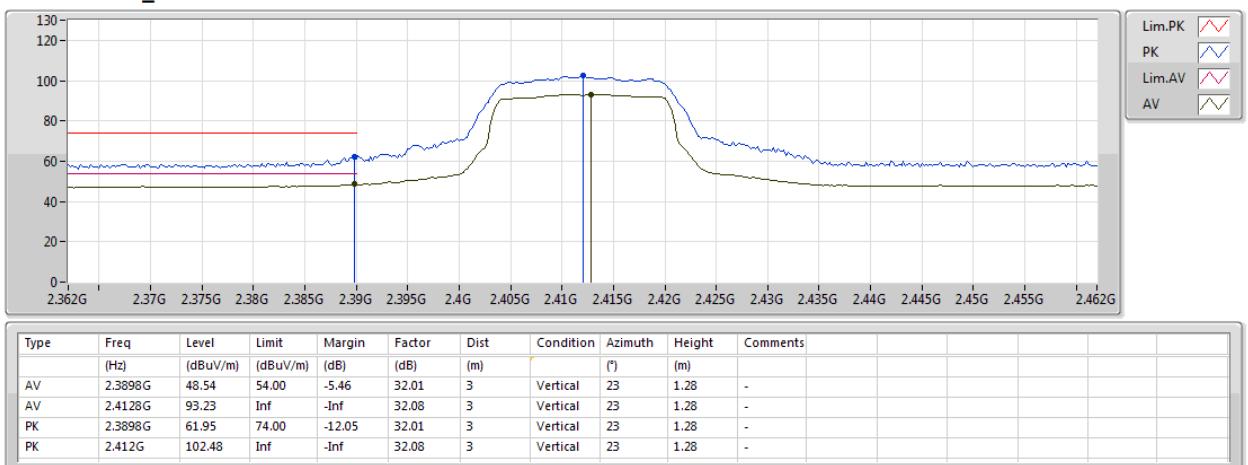




## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

14/12/2018

## 2412MHz\_TX

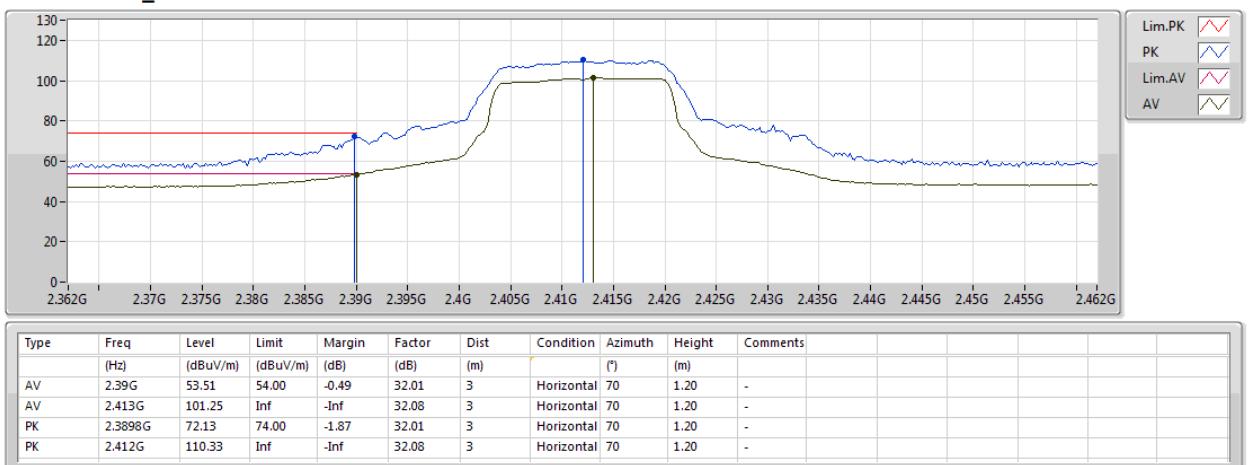




## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

14/12/2018

## 2412MHz\_TX

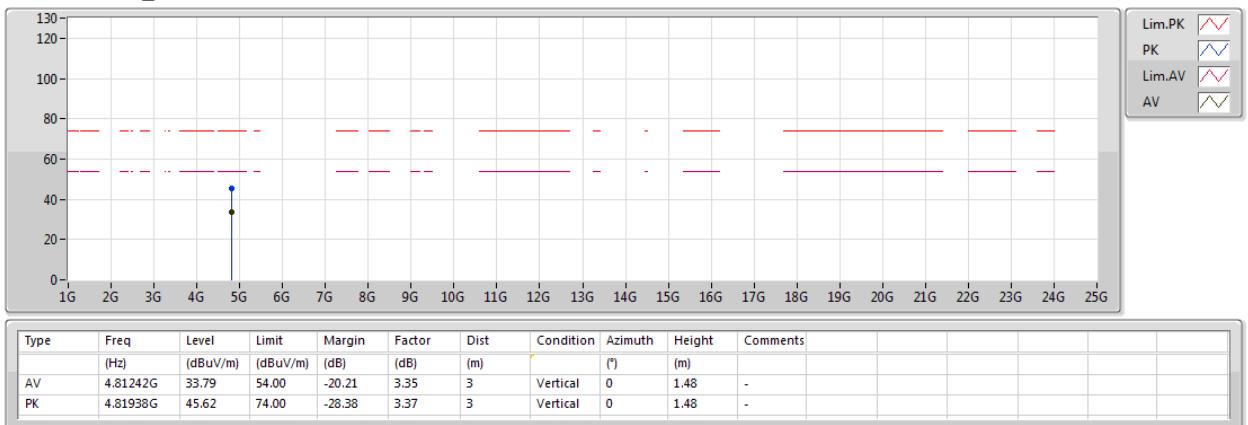




## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

14/12/2018

## 2412MHz\_TX





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

14/12/2018

## 2412MHz\_TX

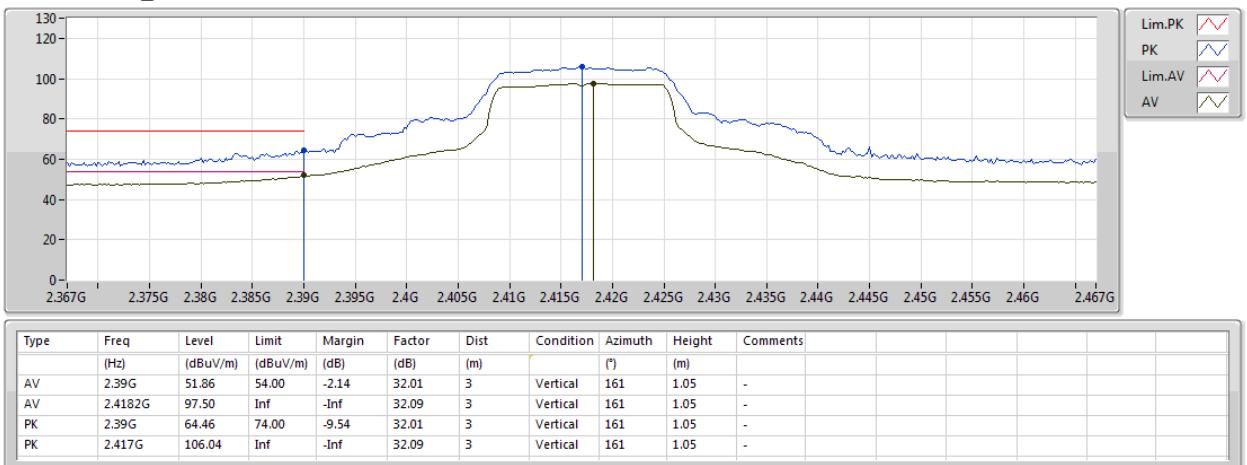




## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

14/12/2018

## 2417MHz\_TX

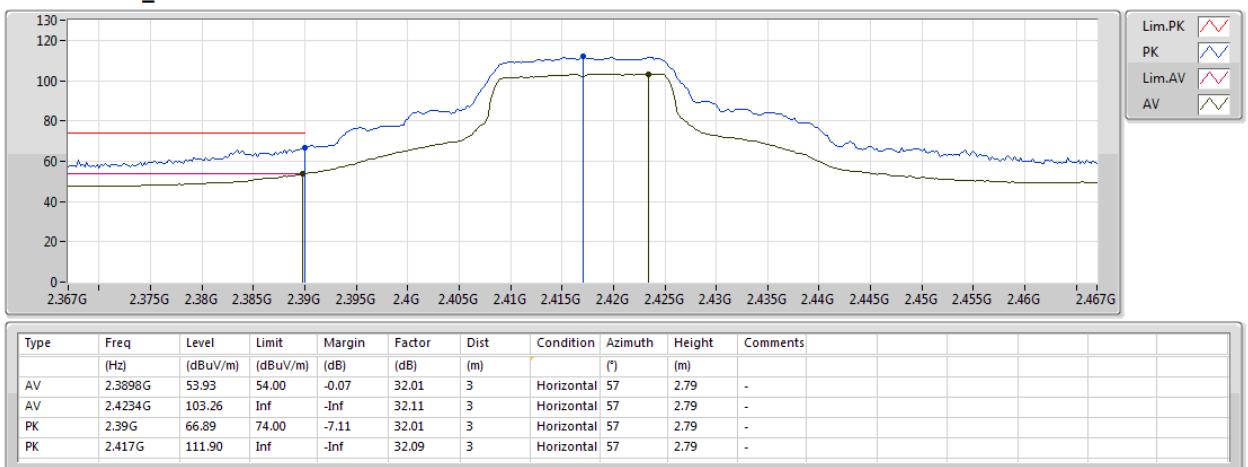




## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

14/12/2018

## 2417MHz\_TX

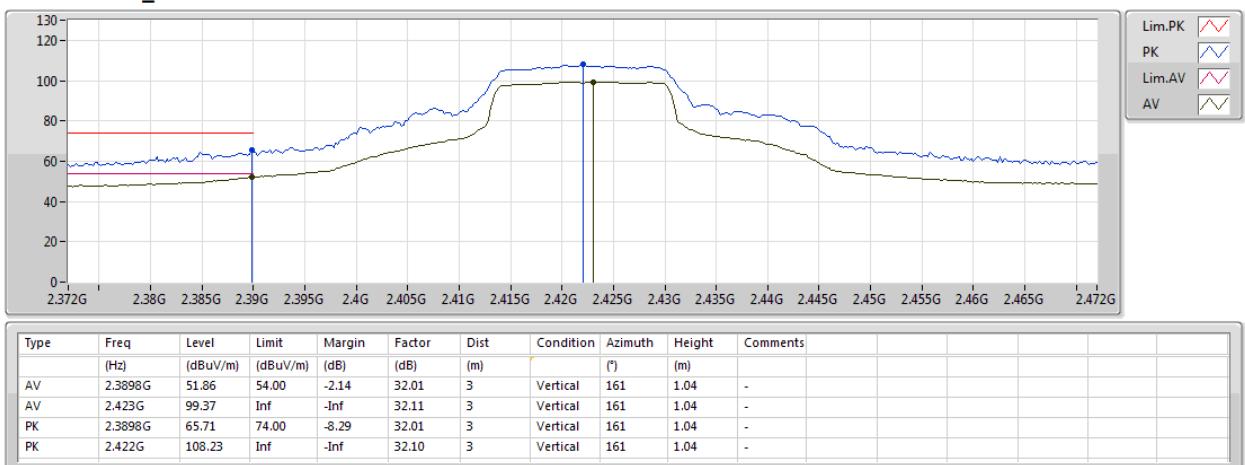




## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

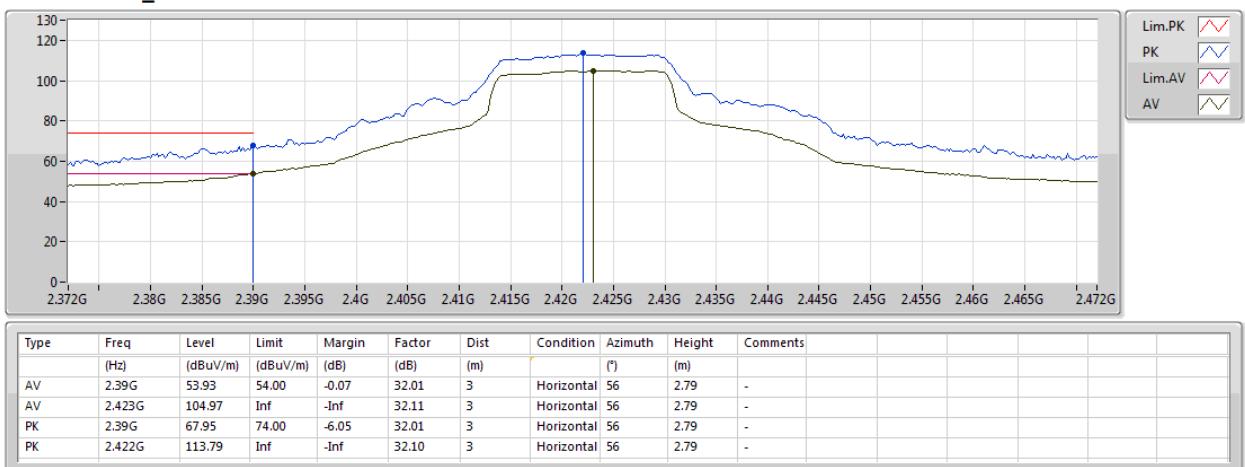
14/12/2018

## 2422MHz\_TX



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

14/12/2018

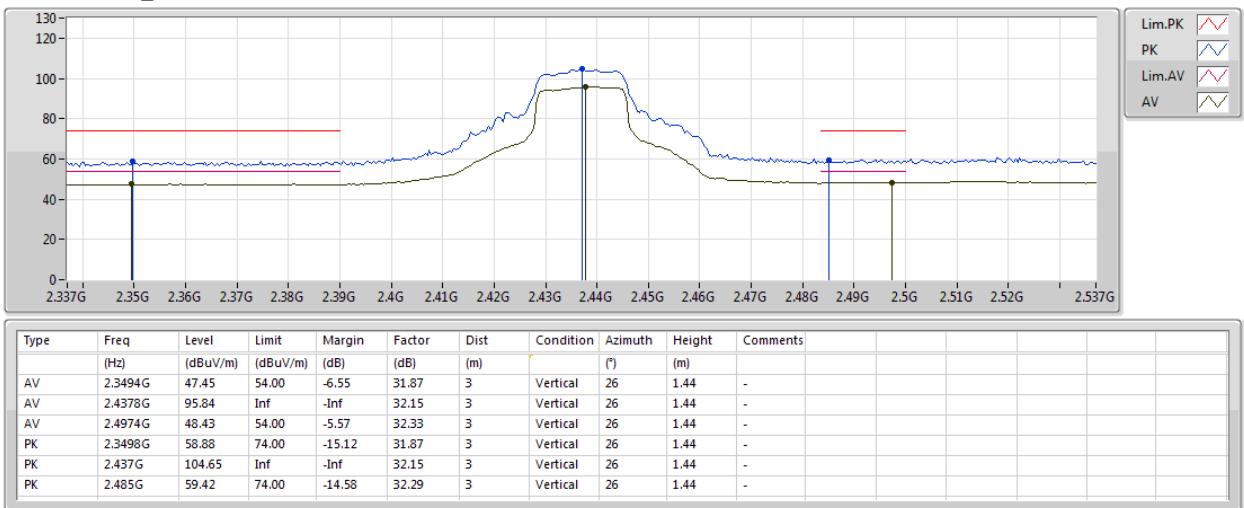
**2422MHz\_TX**




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

14/12/2018

## 2437MHz\_TX

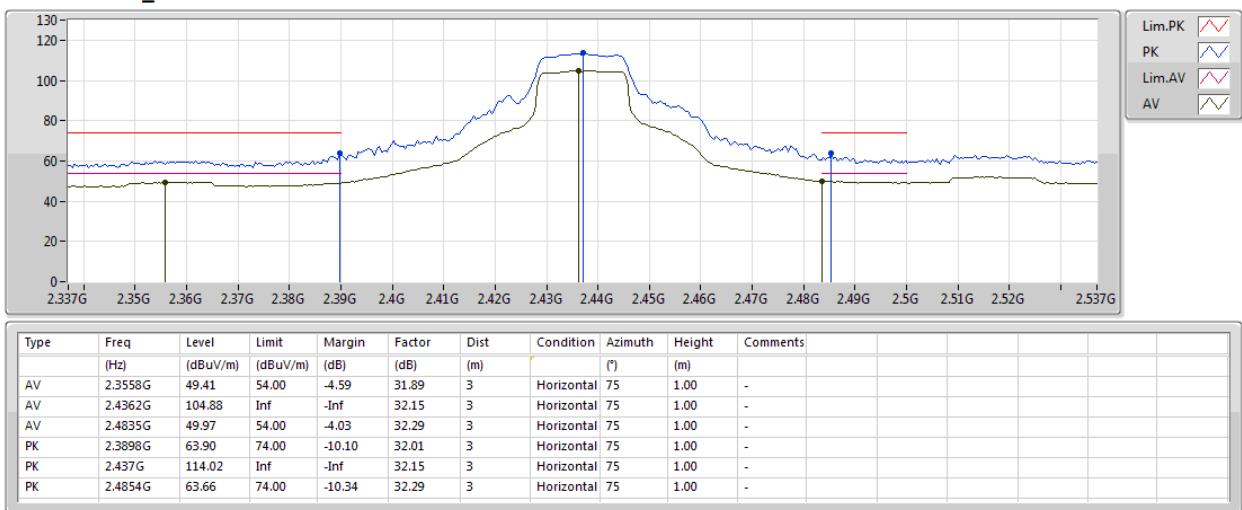




## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

14/12/2018

## 2437MHz\_TX

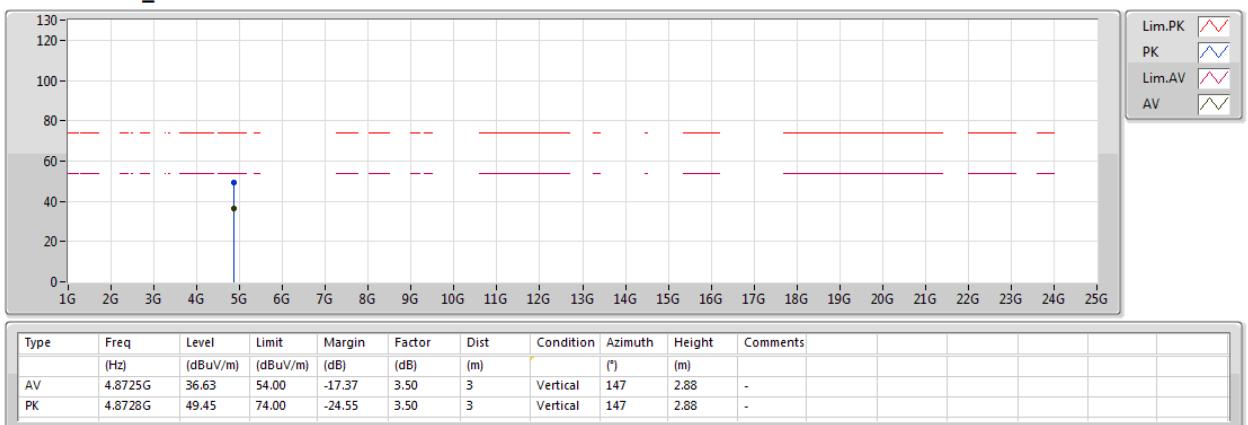




## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

14/12/2018

## 2437MHz\_TX

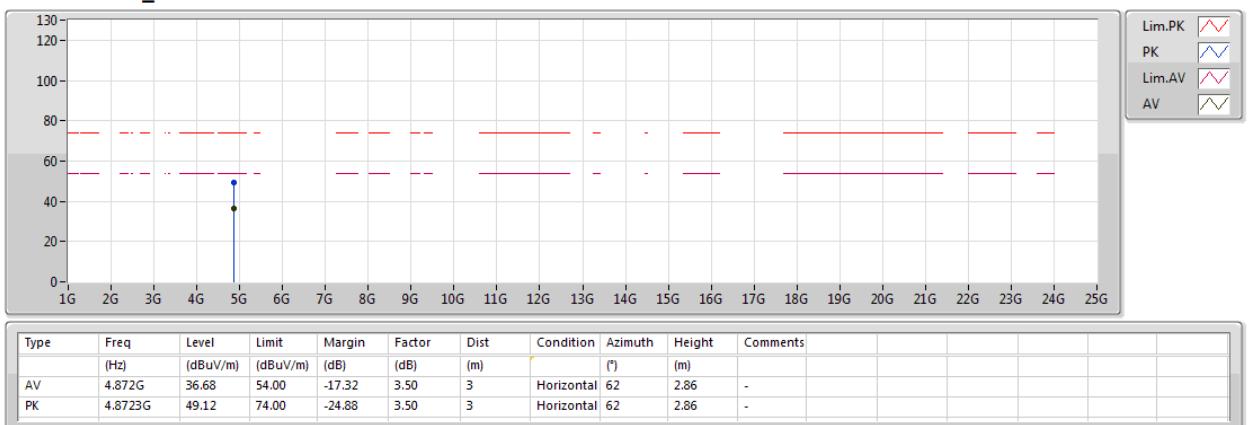




## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

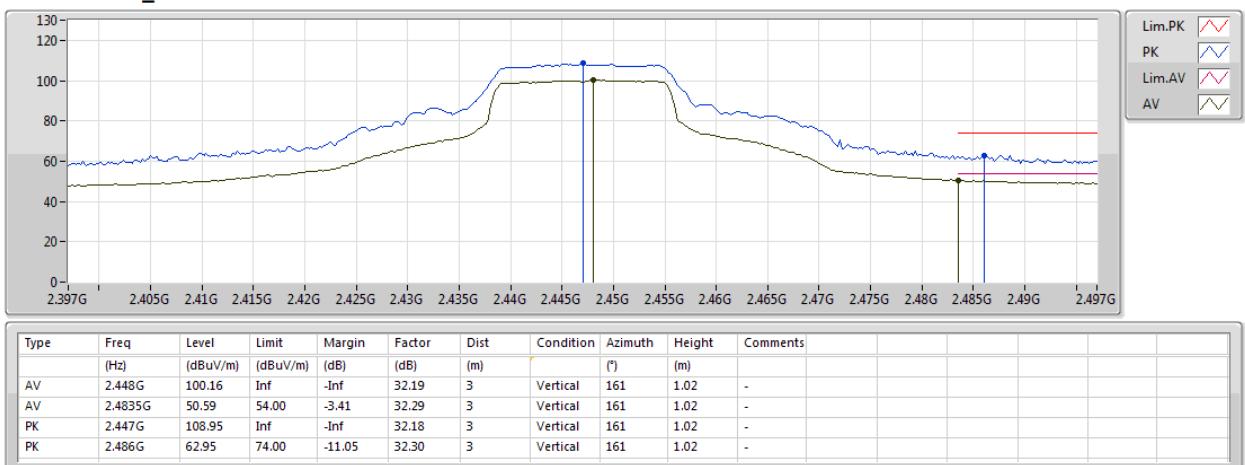
14/12/2018

## 2437MHz\_TX



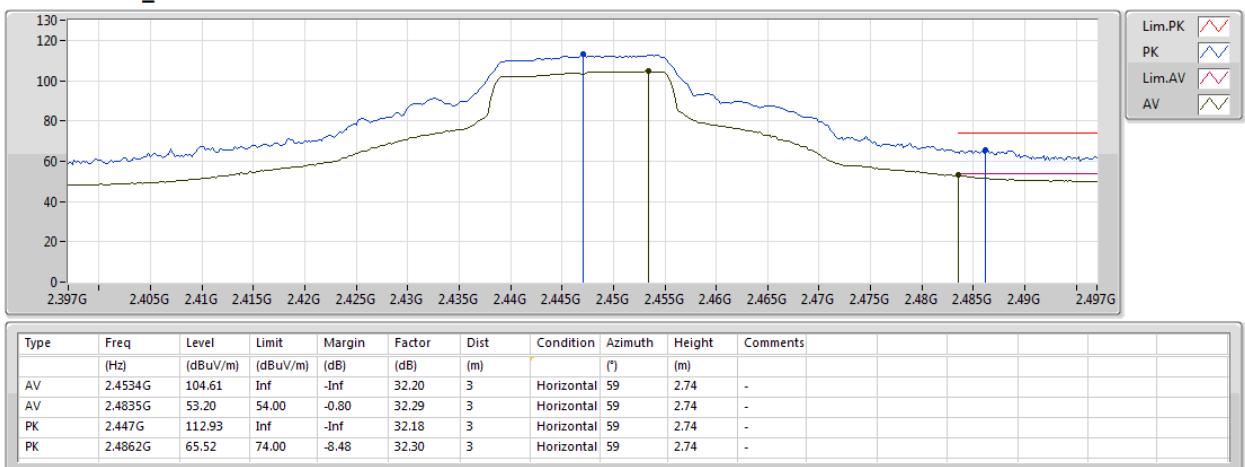
**802.11g\_Nss1,(6Mbps)\_1TX(Port2)**

14/12/2018

**2447MHz\_TX**


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

14/12/2018

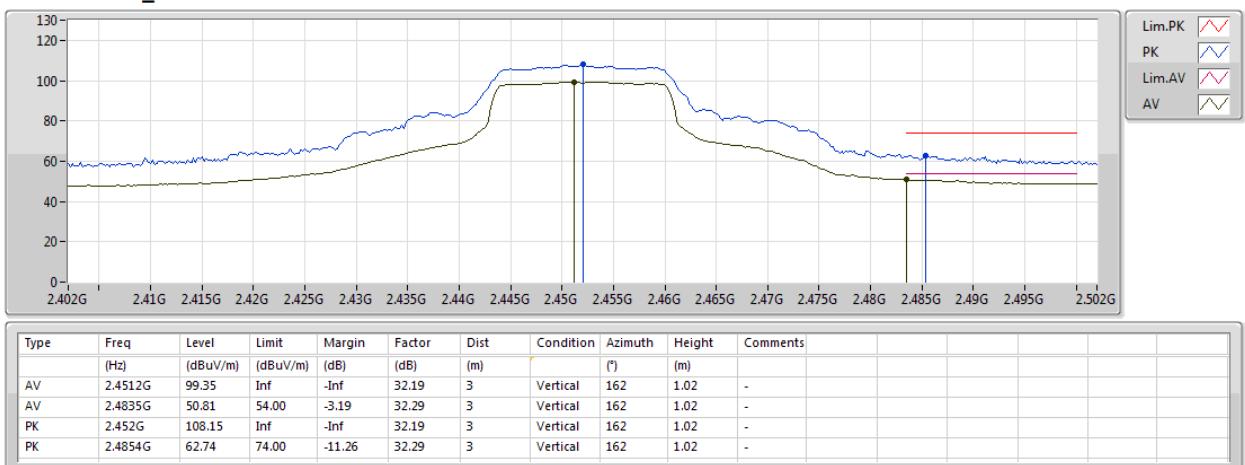
**2447MHz\_TX**




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

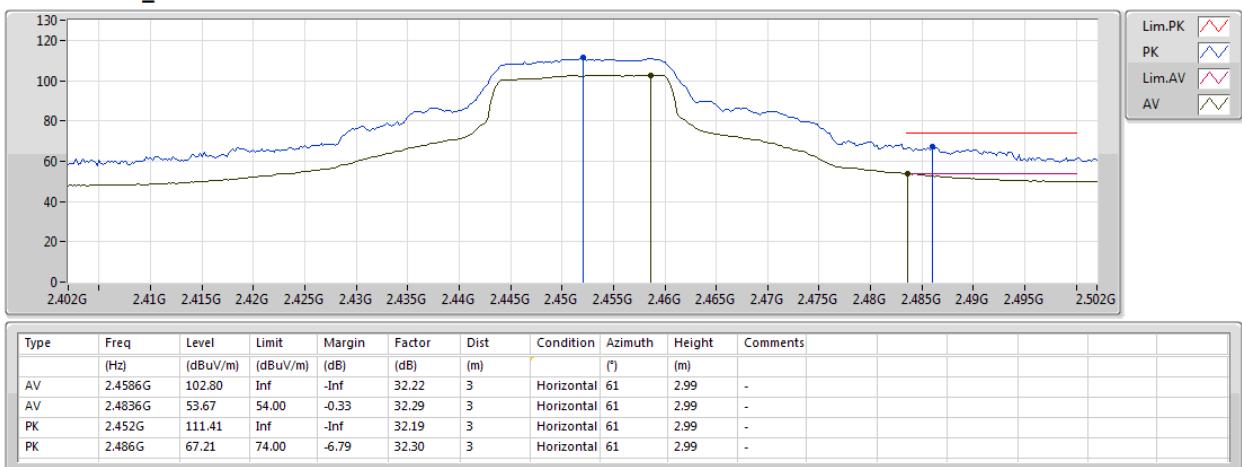
14/12/2018

## 2452MHz\_TX



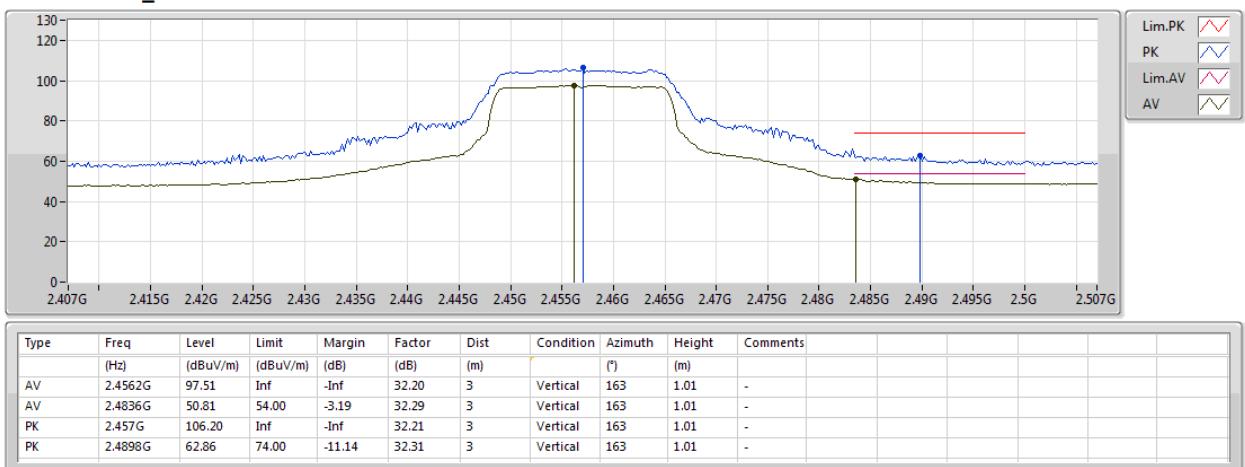
**802.11g\_Nss1,(6Mbps)\_1TX(Port2)**

14/12/2018

**2452MHz\_TX**


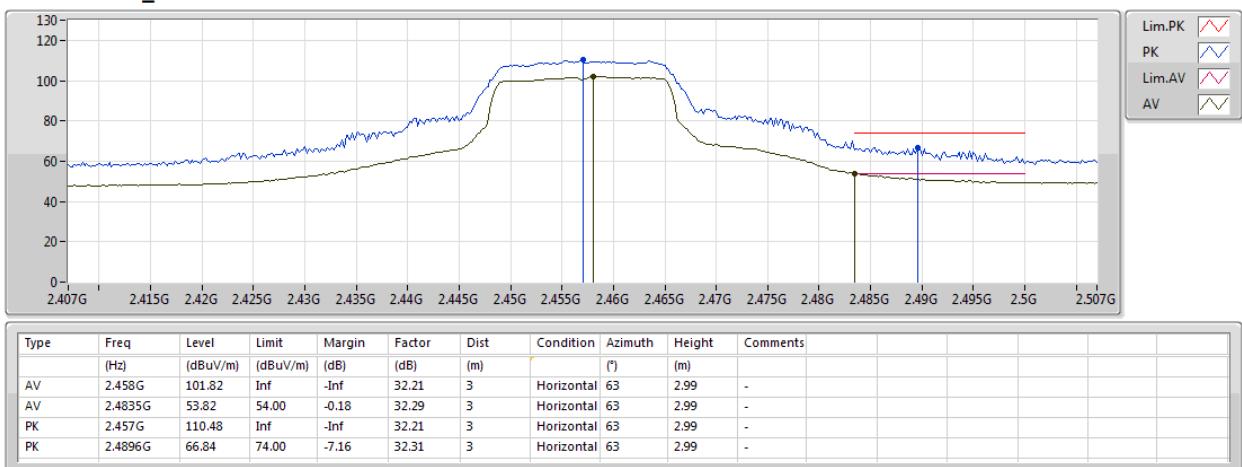
**802.11g\_Nss1,(6Mbps)\_1TX(Port2)**

14/12/2018

**2457MHz\_TX**


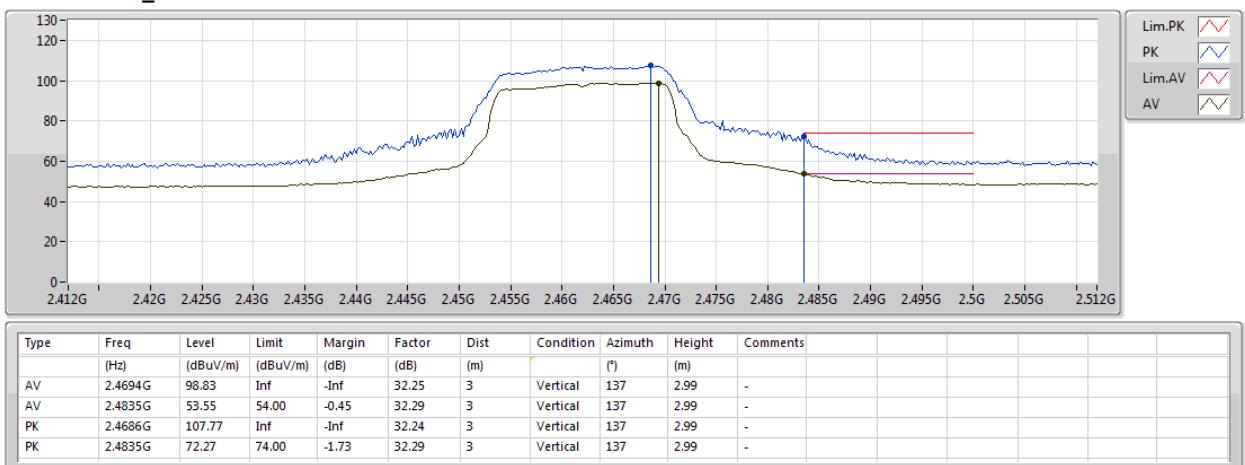
**802.11g\_Nss1,(6Mbps)\_1TX(Port2)**

14/12/2018

**2457MHz\_TX**


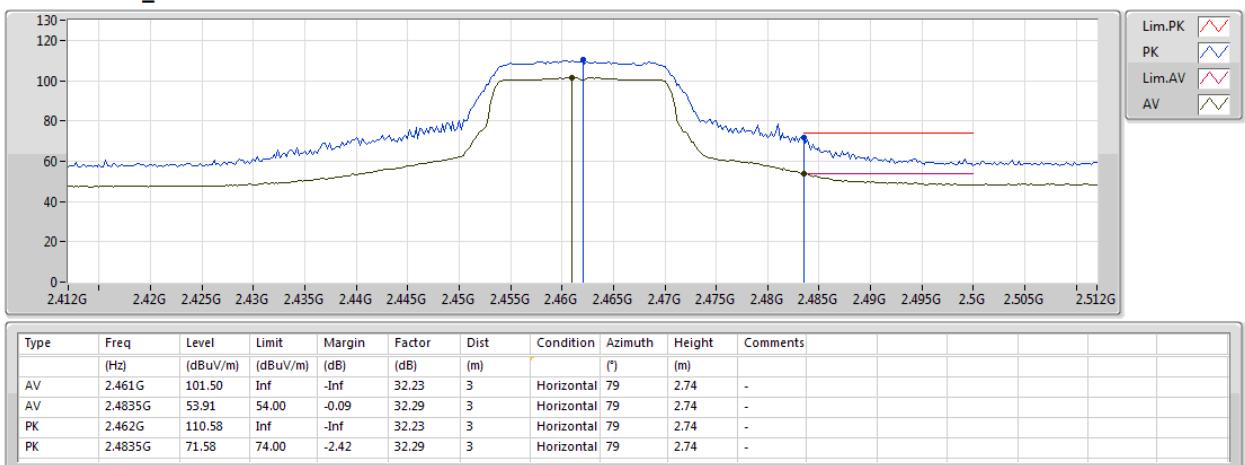
**802.11g\_Nss1,(6Mbps)\_1TX(Port2)**

14/12/2018

**2462MHz\_TX**


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

14/12/2018

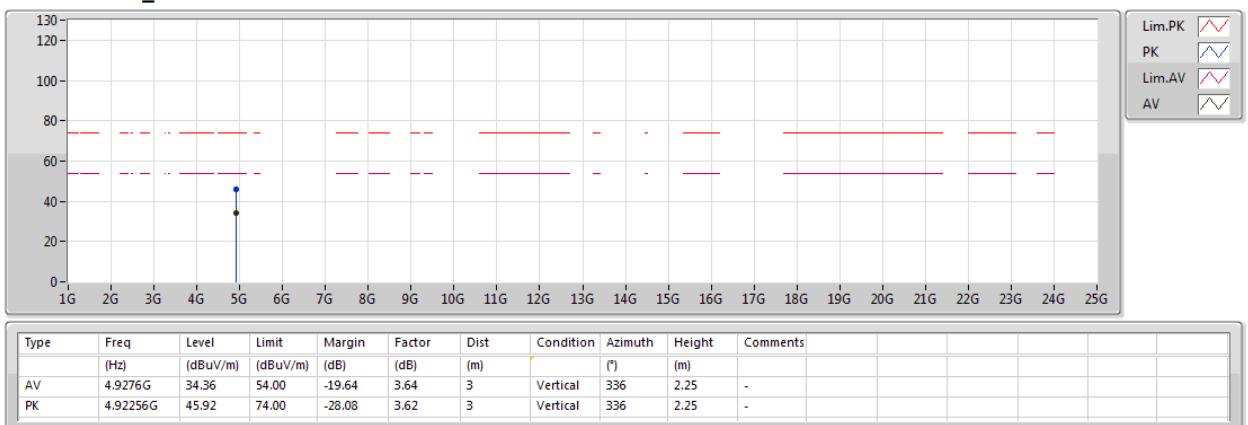
**2462MHz\_TX**




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

14/12/2018

## 2462MHz\_TX

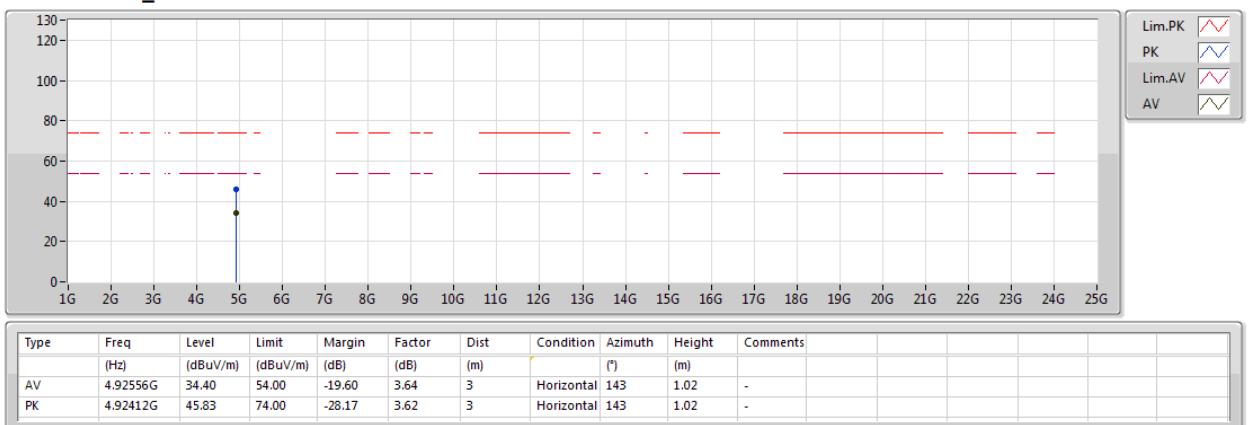




## 802.11g\_Nss1,(6Mbps)\_1TX(Port2)

14/12/2018

## 2462MHz\_TX

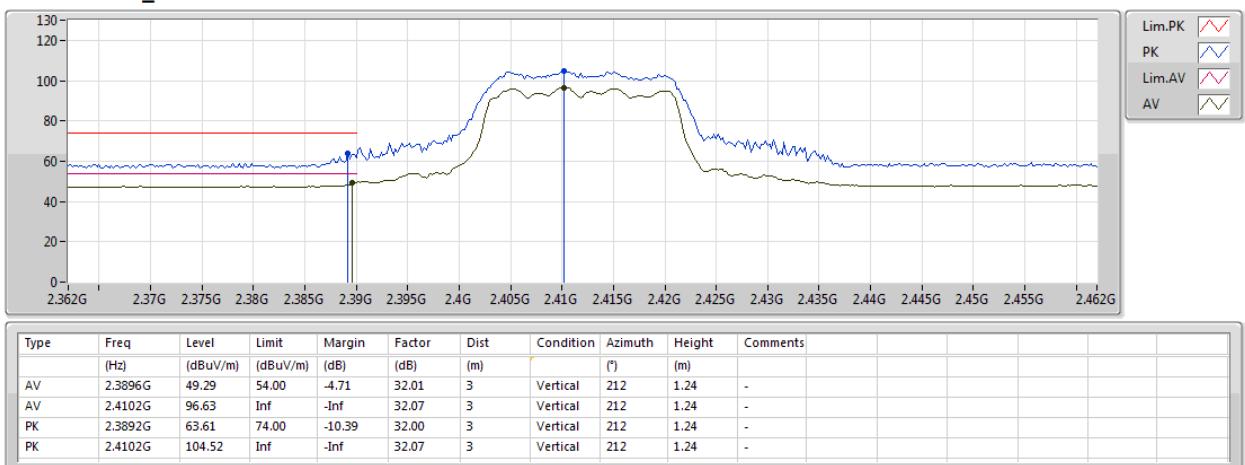




## 802.11n HT20\_Nss1,(MCS0)\_3TX

14/12/2018

## 2412MHz\_TX

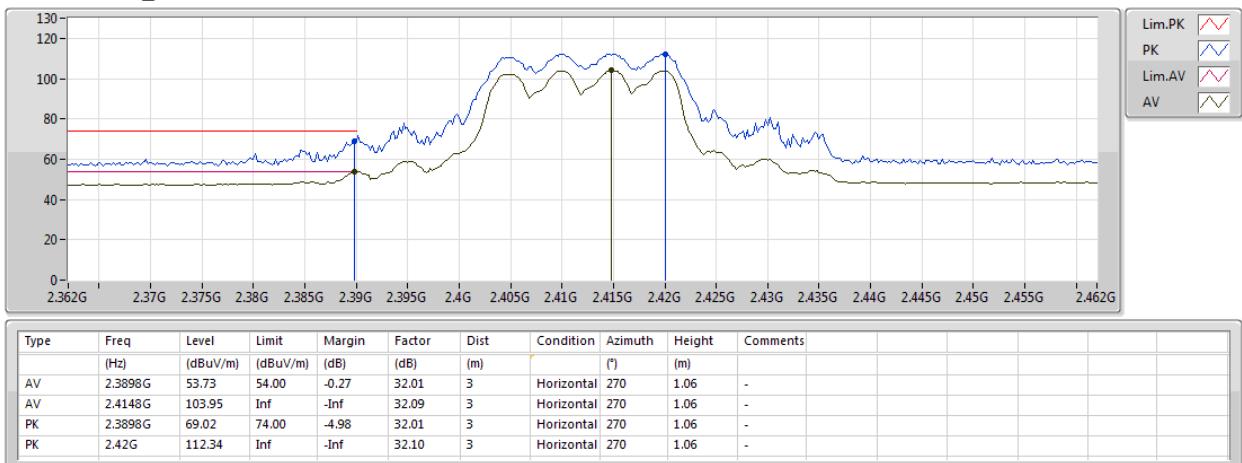




## 802.11n HT20\_Nss1,(MCS0)\_3TX

14/12/2018

## 2412MHz\_TX

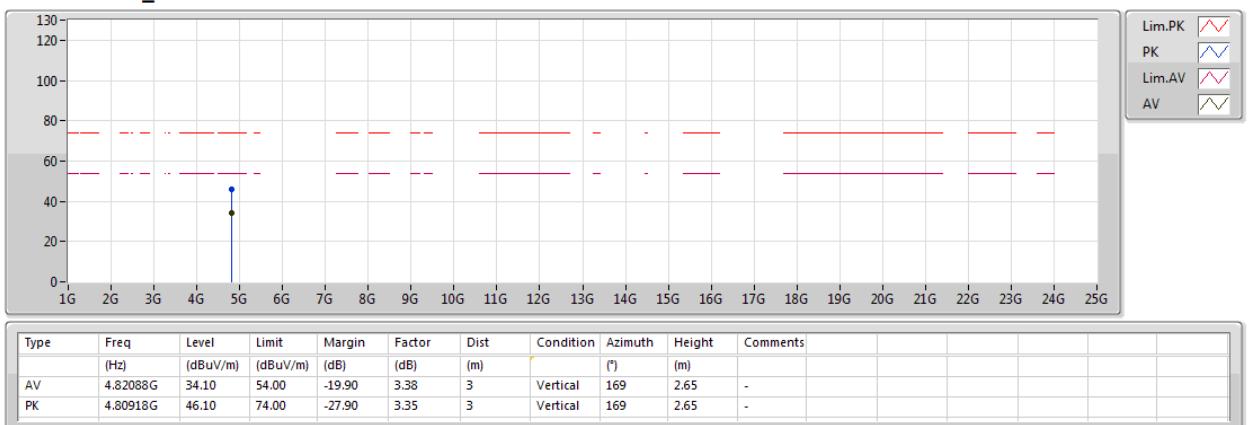




## 802.11n HT20\_Nss1,(MCS0)\_3TX

14/12/2018

## 2412MHz\_TX

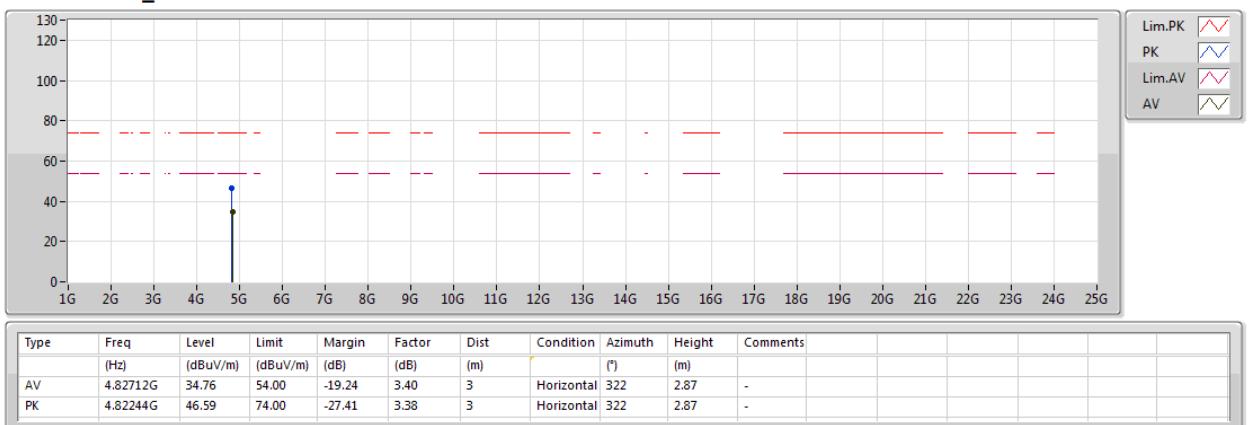




## 802.11n HT20\_Nss1,(MCS0)\_3TX

14/12/2018

## 2412MHz\_TX

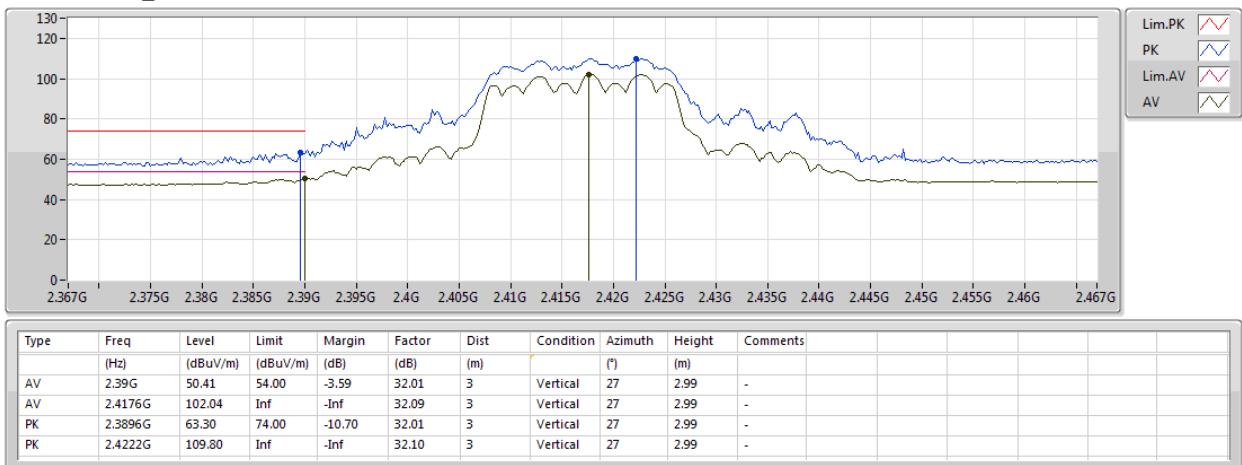




## 802.11n HT20\_Nss1,(MCS0)\_3TX

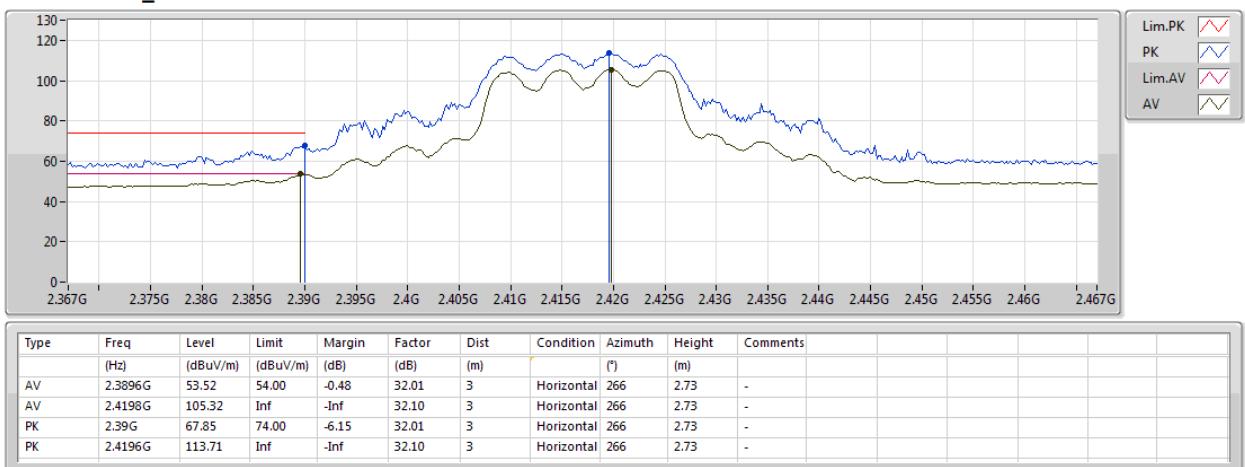
19/12/2018

## 2417MHz\_TX



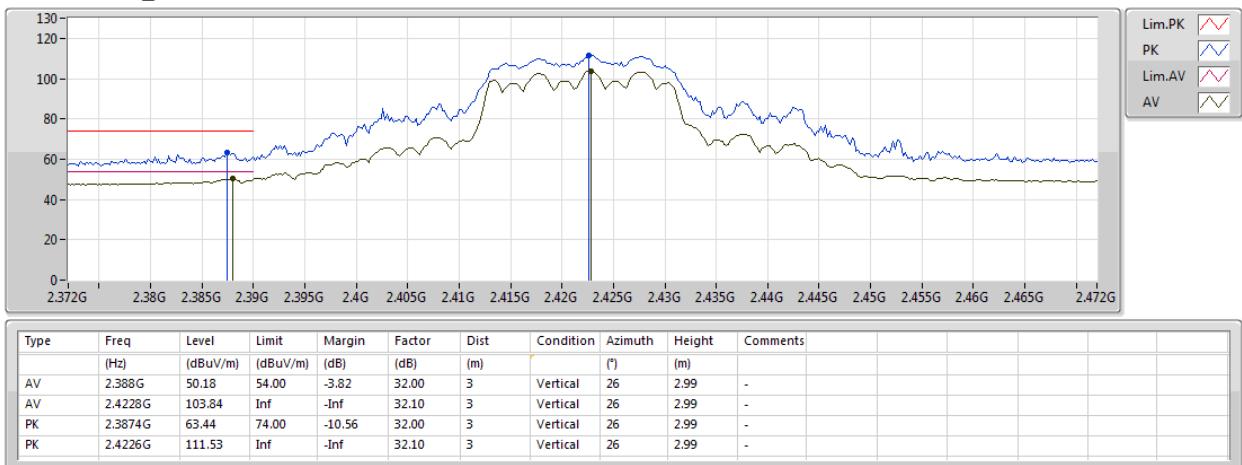
**802.11n HT20\_Nss1,(MCS0)\_3TX**

19/12/2018

**2417MHz\_TX**


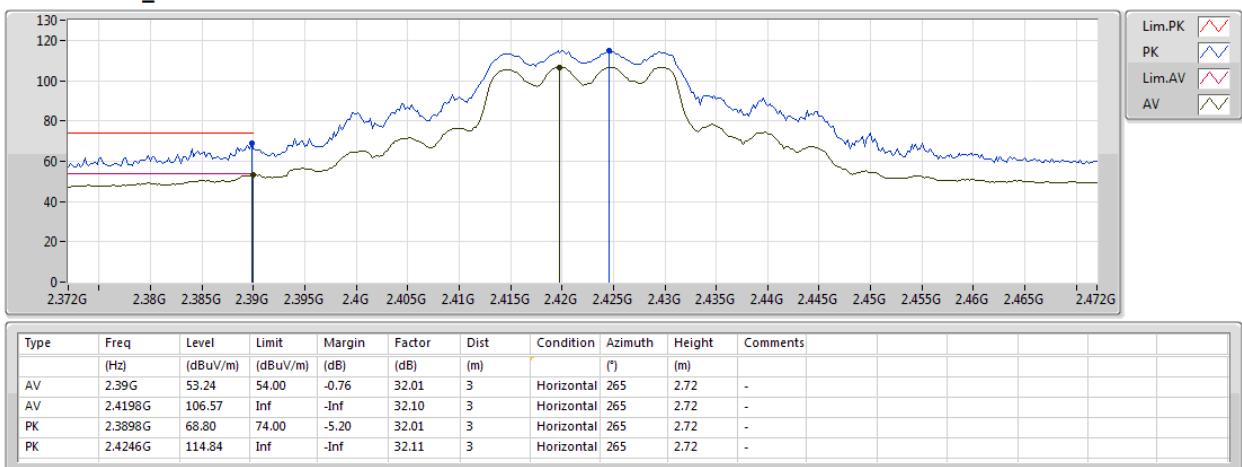
**802.11n HT20\_Nss1,(MCS0)\_3TX**

19/12/2018

**2422MHz\_TX**


**802.11n HT20\_Nss1,(MCS0)\_3TX**

19/12/2018

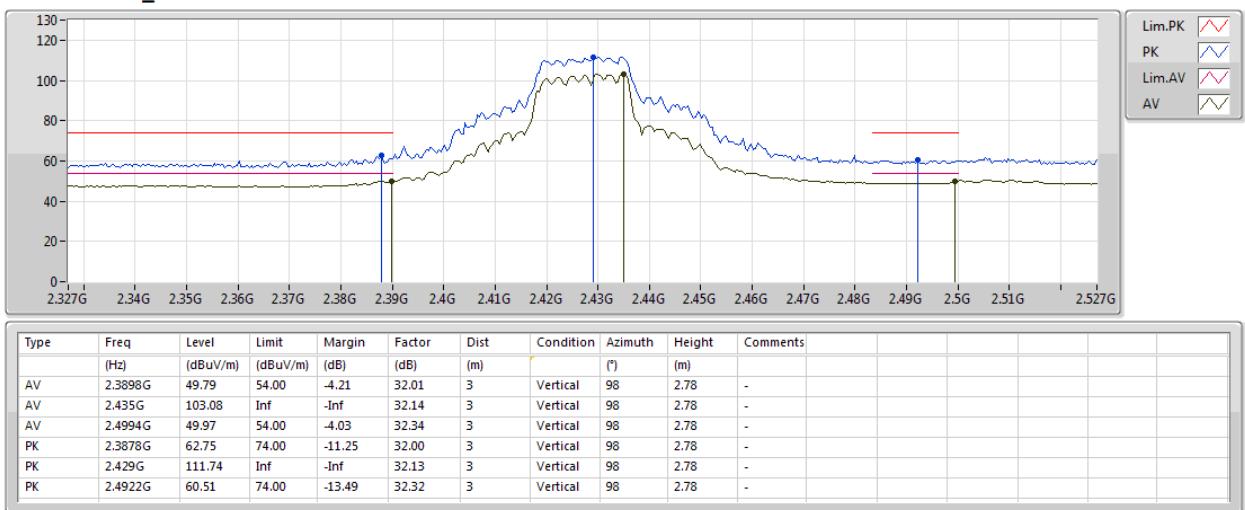
**2422MHz\_TX**




## 802.11n HT20\_Nss1,(MCS0)\_3TX

20/12/2018

## 2427MHz\_TX

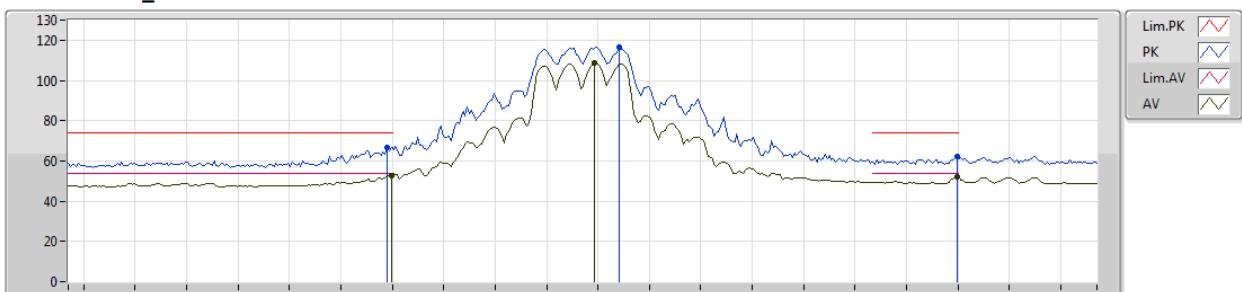




## 802.11n HT20\_Nss1,(MCS0)\_3TX

20/12/2018

## 2427MHz\_TX



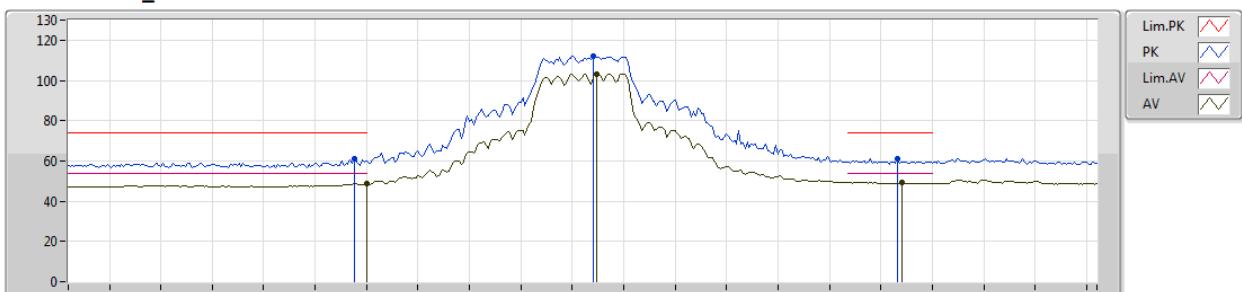
| Type | Freq (Hz) | Level (dBmV/m) | Limit (dBmV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Comments |  |  |  |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|--|--|--|
| AV   | 2.3898G   | 52.95          | 54.00          | -1.05       | 32.01       | 3        | Horizontal | 273         | 2.72       | -        |  |  |  |
| AV   | 2.4294G   | 108.48         | Inf            | -Inf        | 32.13       | 3        | Horizontal | 273         | 2.72       | -        |  |  |  |
| AV   | 2.4998G   | 52.05          | 54.00          | -1.95       | 32.34       | 3        | Horizontal | 273         | 2.72       | -        |  |  |  |
| PK   | 2.389G    | 66.81          | 74.00          | -7.19       | 32.00       | 3        | Horizontal | 273         | 2.72       | -        |  |  |  |
| PK   | 2.4342G   | 116.43         | Inf            | -Inf        | 32.14       | 3        | Horizontal | 273         | 2.72       | -        |  |  |  |
| PK   | 2.4998G   | 62.21          | 74.00          | -11.79      | 32.34       | 3        | Horizontal | 273         | 2.72       | -        |  |  |  |



## 802.11n HT20\_Nss1,(MCS0)\_3TX

20/12/2018

## 2432MHz\_TX



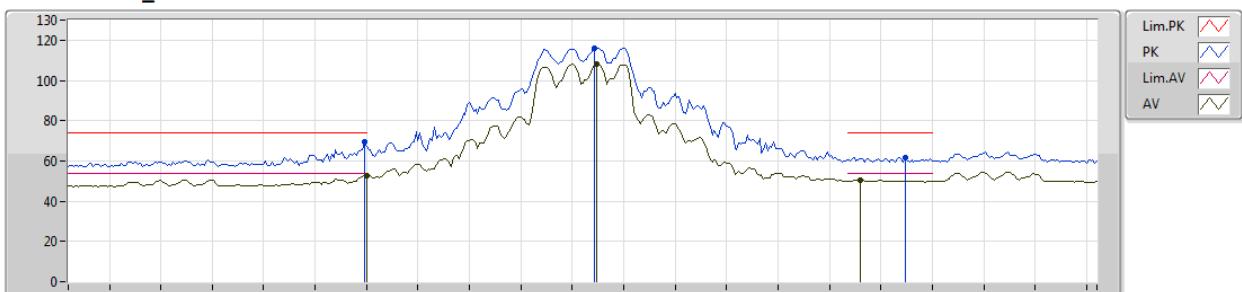
| Type | Freq (Hz) | Level (dBmV/m) | Limit (dBmV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |  |  |  |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|--|--|--|
| AV   | 2.39G     | 48.67          | 54.00          | -5.33       | 32.01       | 3        | Vertical  | 97          | 2.77       | -        |  |  |  |
| AV   | 2.4348G   | 103.29         | Inf            | -Inf        | 32.14       | 3        | Vertical  | 97          | 2.77       | -        |  |  |  |
| AV   | 2.494G    | 49.23          | 54.00          | -4.77       | 32.33       | 3        | Vertical  | 97          | 2.77       | -        |  |  |  |
| PK   | 2.3876G   | 60.94          | 74.00          | -13.06      | 32.00       | 3        | Vertical  | 97          | 2.77       | -        |  |  |  |
| PK   | 2.434G    | 112.27         | Inf            | -Inf        | 32.14       | 3        | Vertical  | 97          | 2.77       | -        |  |  |  |
| PK   | 2.4932G   | 60.83          | 74.00          | -13.17      | 32.32       | 3        | Vertical  | 97          | 2.77       | -        |  |  |  |



## 802.11n HT20\_Nss1,(MCS0)\_3TX

20/12/2018

## 2432MHz\_TX



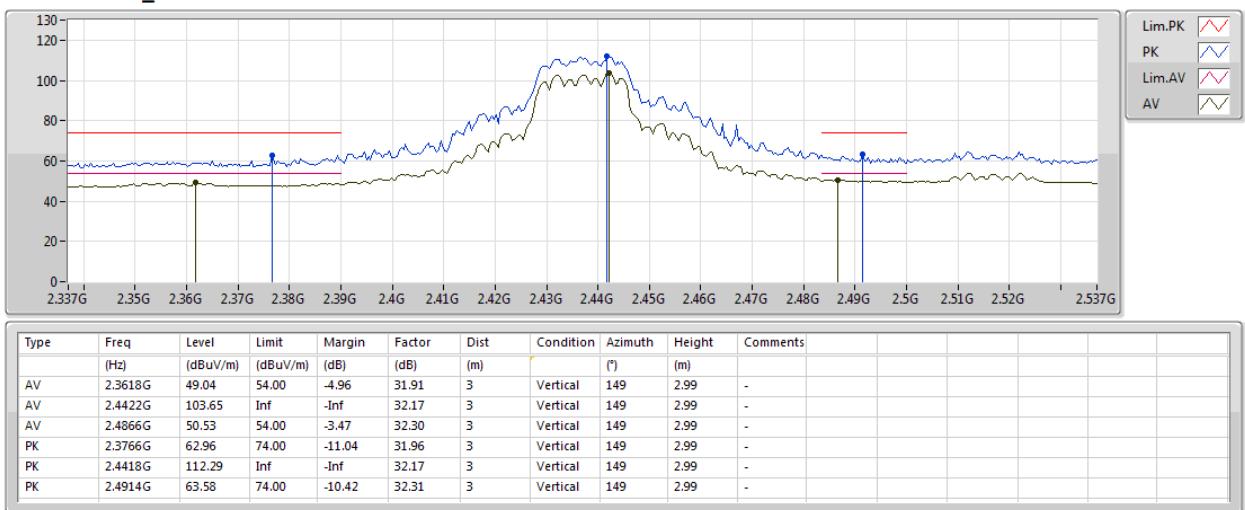
| Type | Freq<br>(Hz) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |  |  |  |
|------|--------------|----------------|----------------|----------------|----------------|-------------|------------|----------------|---------------|----------|--|--|--|
| AV   | 2.39G        | 52.81          | 54.00          | -1.19          | 32.01          | 3           | Horizontal | 268            | 1.01          | -        |  |  |  |
| AV   | 2.4348G      | 107.99         | Inf            | -Inf           | 32.14          | 3           | Horizontal | 268            | 1.01          | -        |  |  |  |
| AV   | 2.486G       | 50.60          | 54.00          | -3.40          | 32.30          | 3           | Horizontal | 268            | 1.01          | -        |  |  |  |
| PK   | 2.3896G      | 69.62          | 74.00          | -4.38          | 32.01          | 3           | Horizontal | 268            | 1.01          | -        |  |  |  |
| PK   | 2.4344G      | 115.90         | Inf            | -Inf           | 32.14          | 3           | Horizontal | 268            | 1.01          | -        |  |  |  |
| PK   | 2.4948G      | 61.87          | 74.00          | -12.13         | 32.33          | 3           | Horizontal | 268            | 1.01          | -        |  |  |  |



## 802.11n HT20\_Nss1,(MCS0)\_3TX

14/12/2018

## 2437MHz\_TX

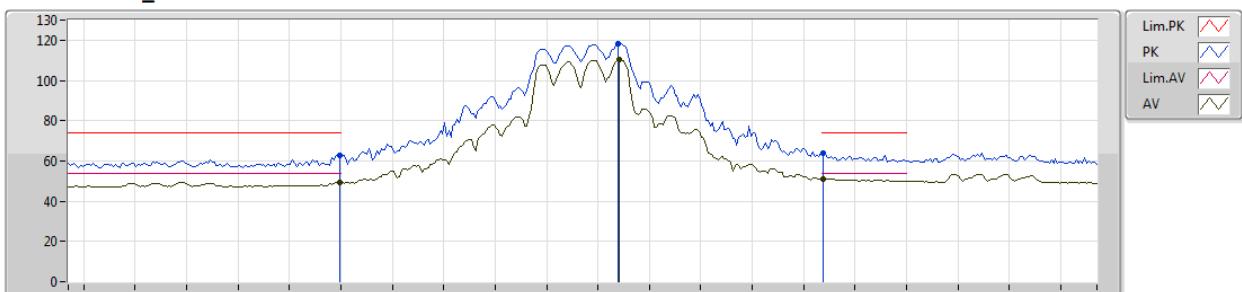




## 802.11n HT20\_Nss1,(MCS0)\_3TX

14/12/2018

## 2437MHz\_TX



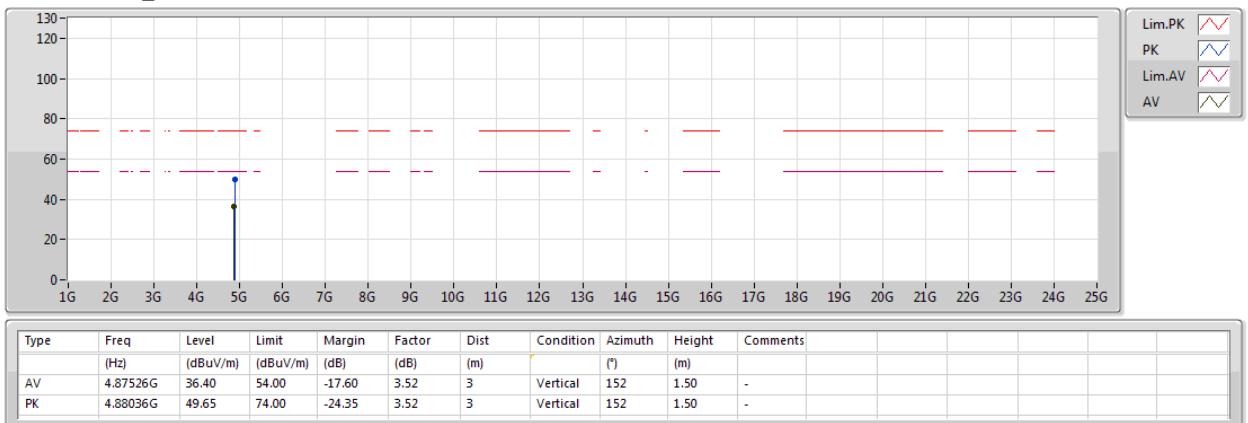
| Type | Freq (Hz) | Level (dBm) | Limit (dBm) | Margin (dB) | Factor (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Comments |  |  |  |
|------|-----------|-------------|-------------|-------------|-------------|----------|------------|-------------|------------|----------|--|--|--|
| AV   | 2.3898G   | 49.47       | 54.00       | -4.53       | 32.01       | 3        | Horizontal | 285         | 2.99       | -        |  |  |  |
| AV   | 2.4442G   | 110.25      | Inf         | -Inf        | 32.18       | 3        | Horizontal | 285         | 2.99       | -        |  |  |  |
| AV   | 2.4838G   | 51.18       | 54.00       | -2.82       | 32.29       | 3        | Horizontal | 285         | 2.99       | -        |  |  |  |
| PK   | 2.3898G   | 62.90       | 74.00       | -11.10      | 32.01       | 3        | Horizontal | 285         | 2.99       | -        |  |  |  |
| PK   | 2.4438G   | 118.12      | Inf         | -Inf        | 32.18       | 3        | Horizontal | 285         | 2.99       | -        |  |  |  |
| PK   | 2.4838G   | 63.80       | 74.00       | -10.20      | 32.29       | 3        | Horizontal | 285         | 2.99       | -        |  |  |  |



## 802.11n HT20\_Nss1,(MCS0)\_3TX

14/12/2018

## 2437MHz\_TX

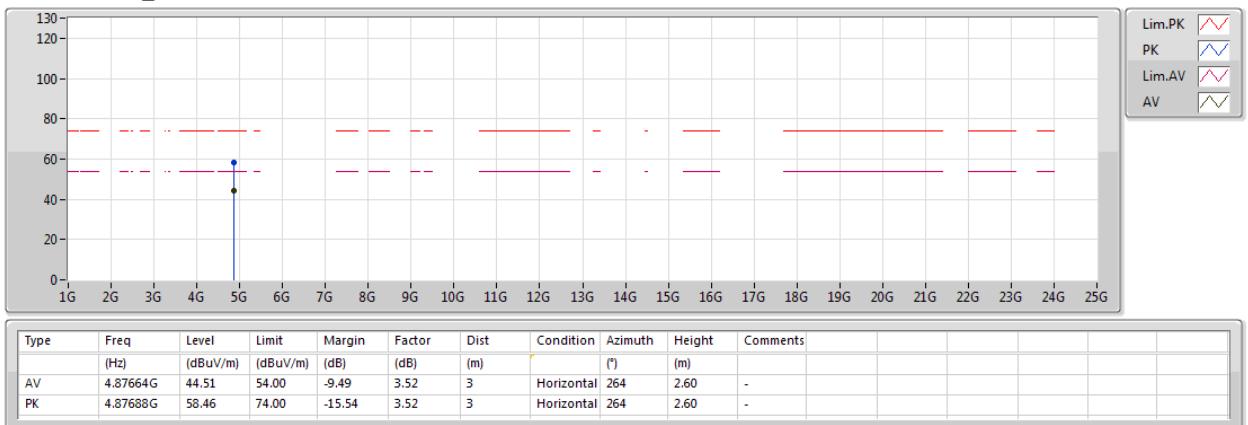




## 802.11n HT20\_Nss1,(MCS0)\_3TX

14/12/2018

## 2437MHz\_TX

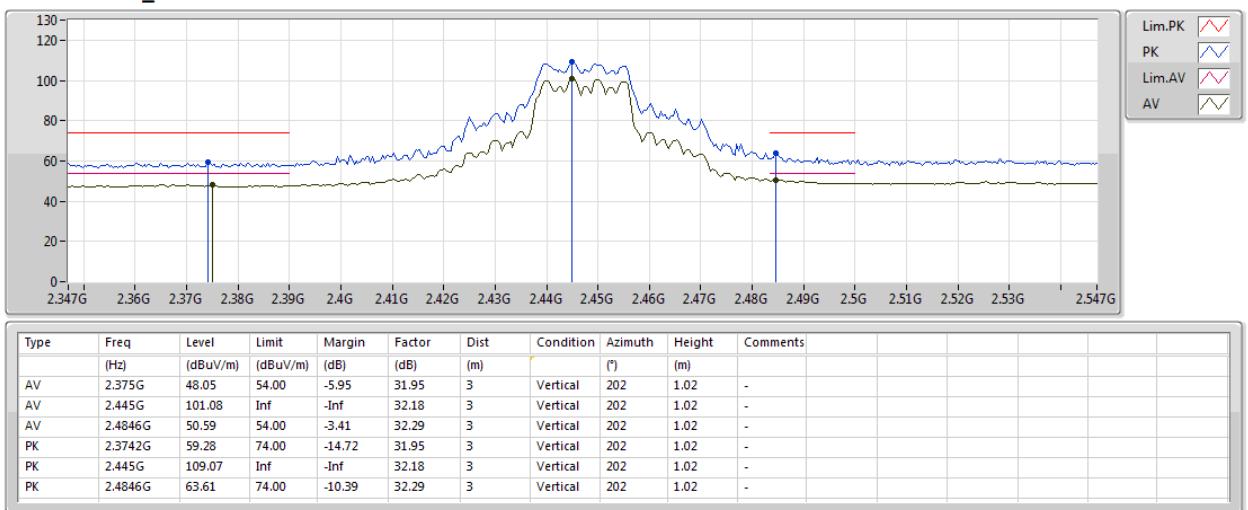




## 802.11n HT20\_Nss1,(MCS0)\_3TX

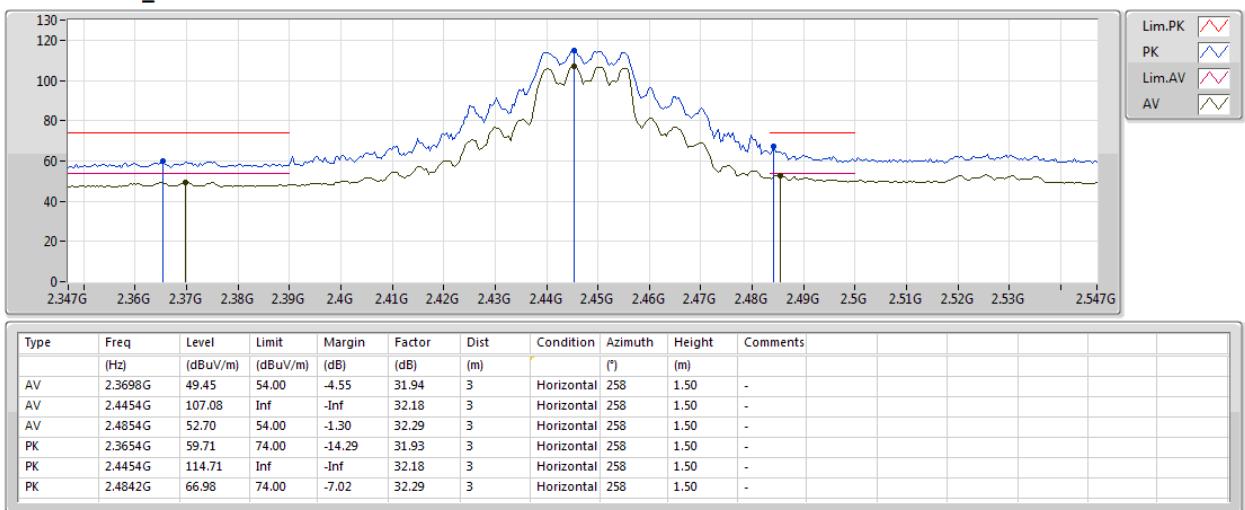
20/12/2018

## 2447MHz\_TX



**802.11n HT20\_Nss1,(MCS0)\_3TX**

20/12/2018

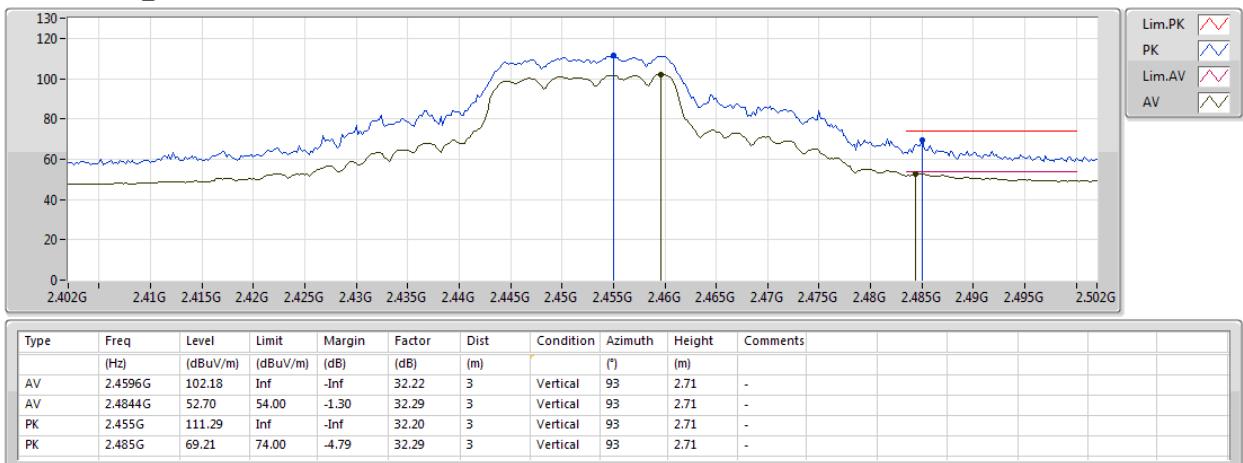
**2447MHz\_TX**




## 802.11n HT20\_Nss1,(MCS0)\_3TX

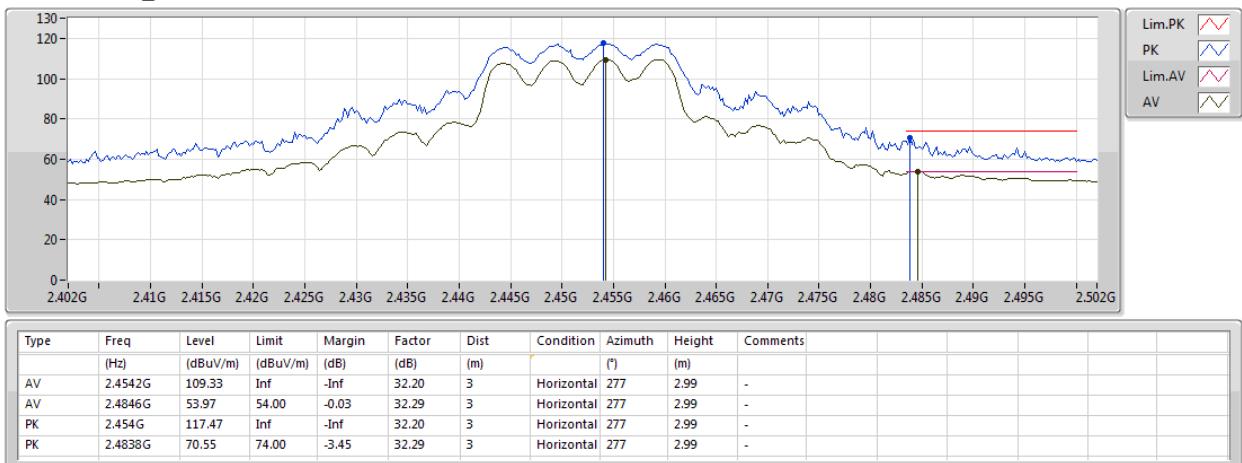
20/12/2018

## 2452MHz\_TX



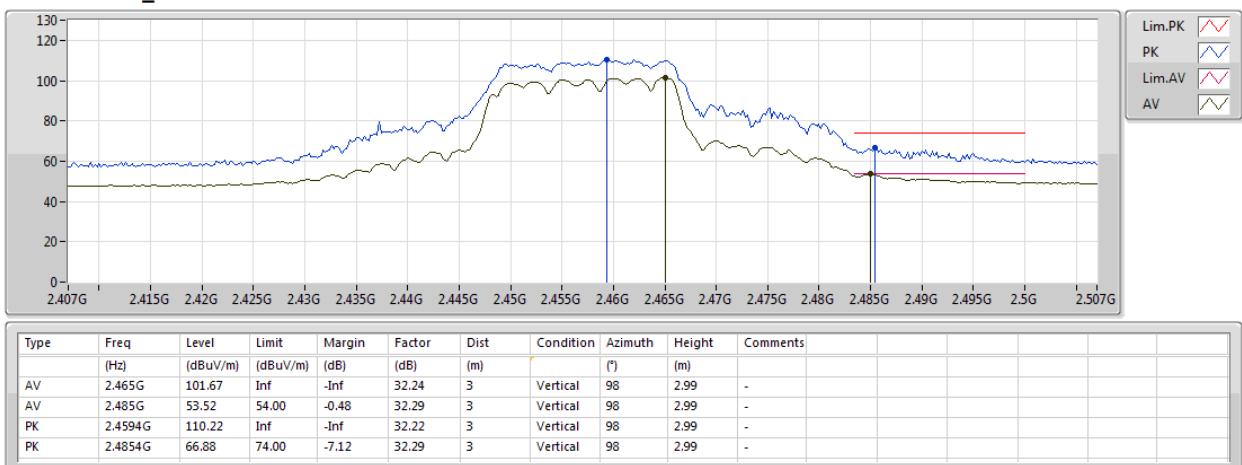
**802.11n HT20\_Nss1,(MCS0)\_3TX**

20/12/2018

**2452MHz\_TX**


**802.11n HT20\_Nss1,(MCS0)\_3TX**

20/12/2018

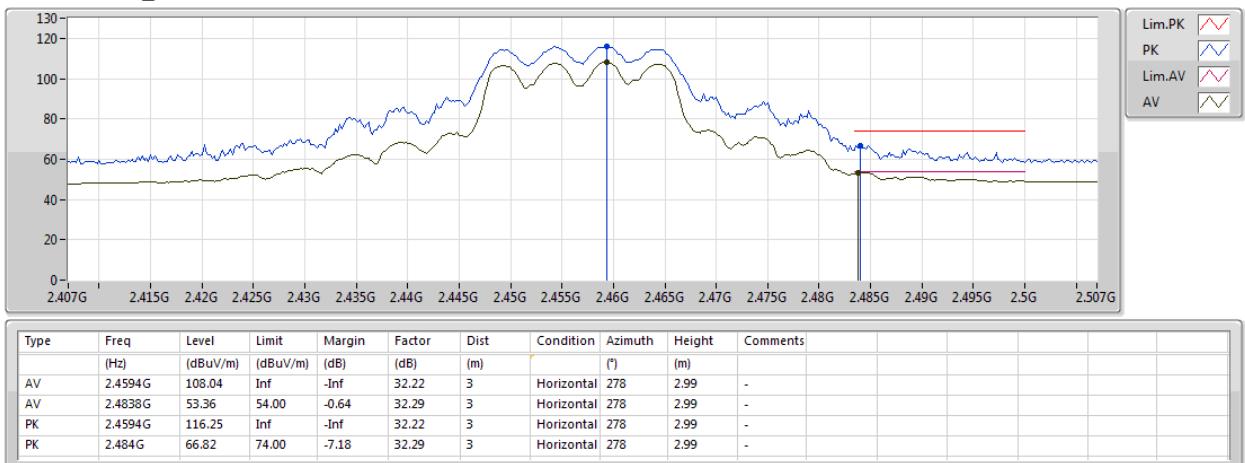
**2457MHz\_TX**




## 802.11n HT20\_Nss1,(MCS0)\_3TX

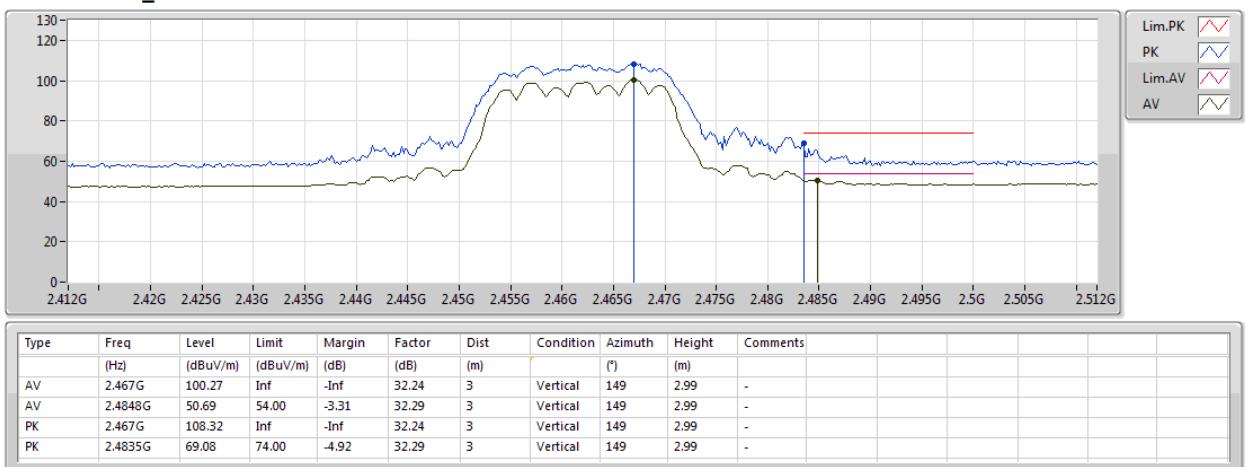
20/12/2018

## 2457MHz\_TX



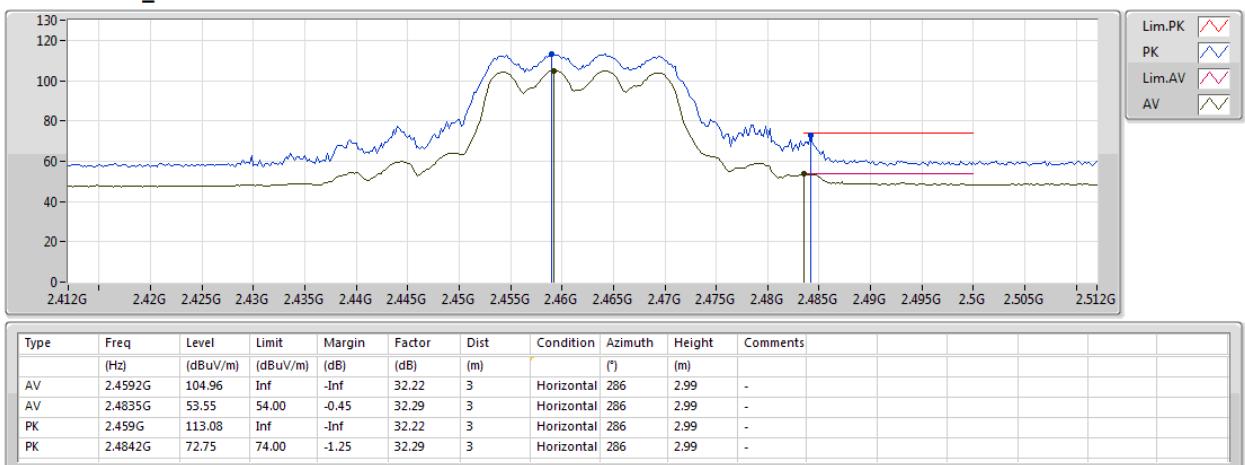
**802.11n HT20\_Nss1,(MCS0)\_3TX**

14/12/2018

**2462MHz\_TX**


**802.11n HT20\_Nss1,(MCS0)\_3TX**

14/12/2018

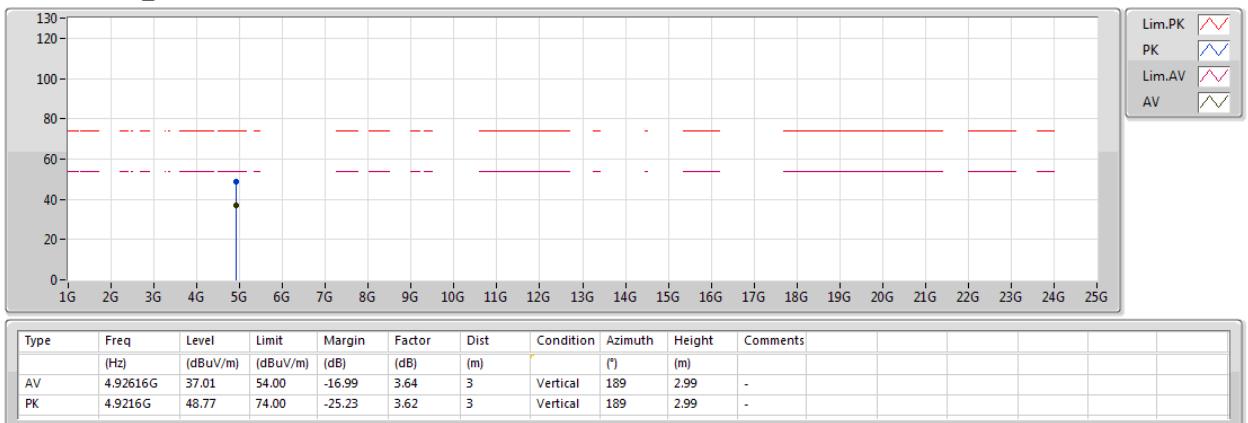
**2462MHz\_TX**




## 802.11n HT20\_Nss1,(MCS0)\_3TX

14/12/2018

## 2462MHz\_TX

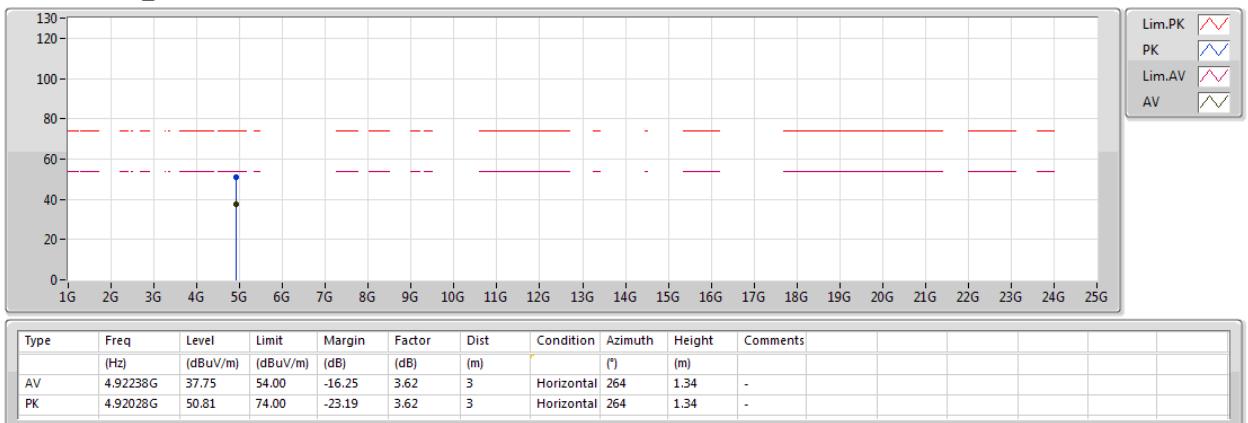




## 802.11n HT20\_Nss1,(MCS0)\_3TX

14/12/2018

## 2462MHz\_TX

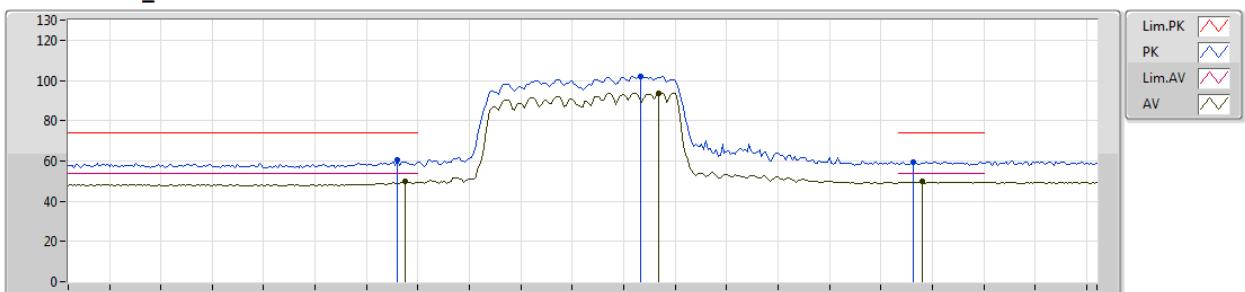




## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2422MHz\_TX



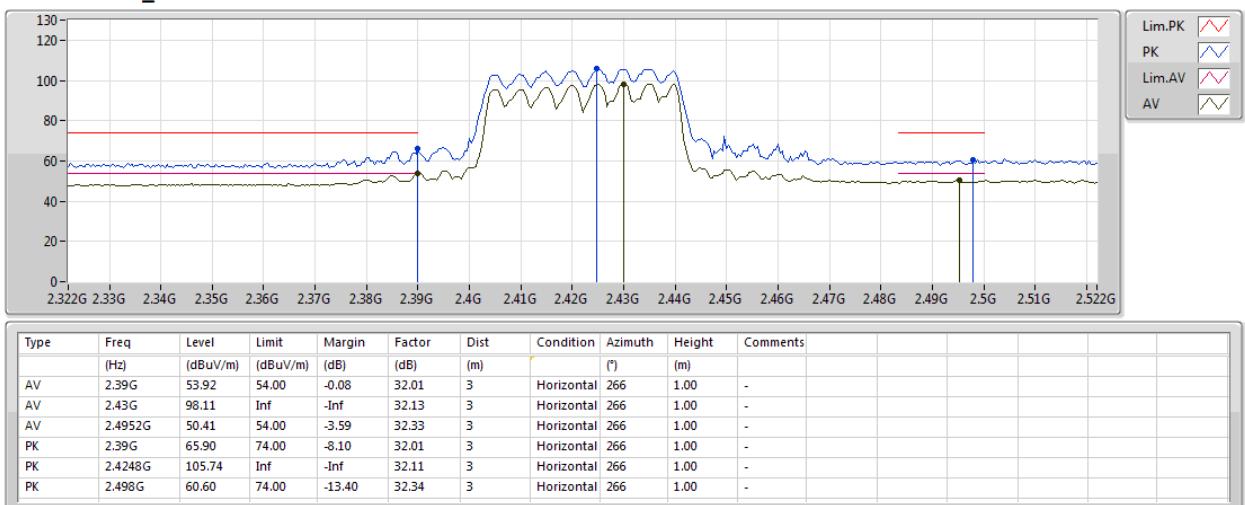
| Type | Freq (Hz) | Level (dBm) | Limit (dBm) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |  |  |  |
|------|-----------|-------------|-------------|-------------|-------------|----------|-----------|-------------|------------|----------|--|--|--|
| AV   | 2.3876G   | 49.75       | 54.00       | -4.25       | 32.00       | 3        | Vertical  | 95          | 2.76       | -        |  |  |  |
| AV   | 2.4368G   | 93.68       | Inf         | -Inf        | 32.15       | 3        | Vertical  | 95          | 2.76       | -        |  |  |  |
| AV   | 2.488G    | 49.68       | 54.00       | -4.32       | 32.30       | 3        | Vertical  | 95          | 2.76       | -        |  |  |  |
| PK   | 2.386G    | 60.47       | 74.00       | -13.53      | 32.00       | 3        | Vertical  | 95          | 2.76       | -        |  |  |  |
| PK   | 2.4332G   | 102.19      | Inf         | -Inf        | 32.14       | 3        | Vertical  | 95          | 2.76       | -        |  |  |  |
| PK   | 2.4864G   | 59.65       | 74.00       | -14.35      | 32.30       | 3        | Vertical  | 95          | 2.76       | -        |  |  |  |



## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2422MHz\_TX

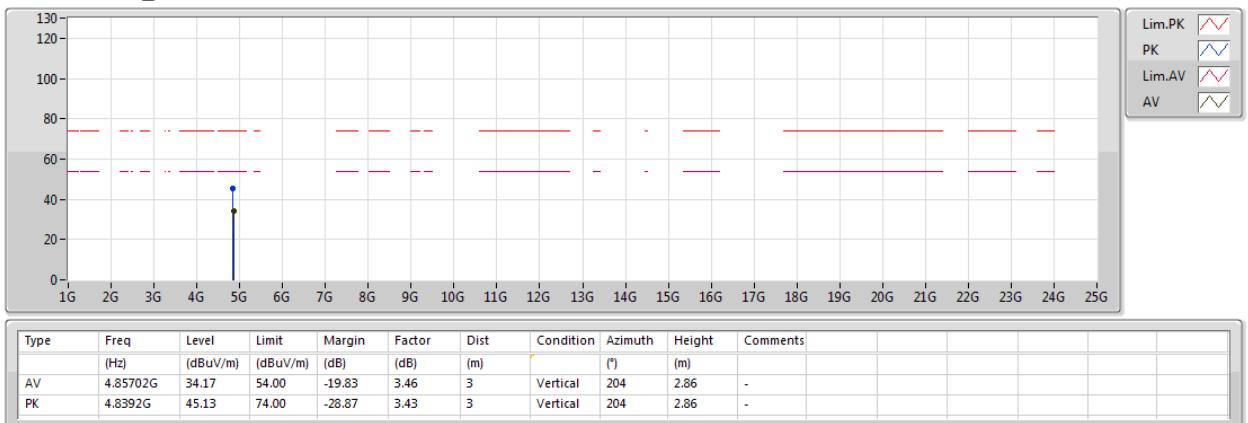




## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2422MHz\_TX

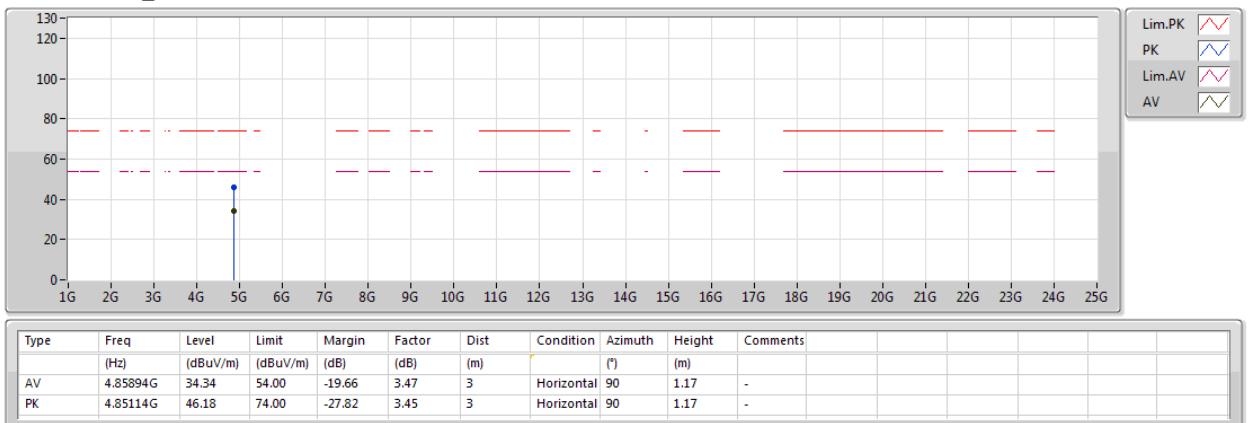




## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2422MHz\_TX

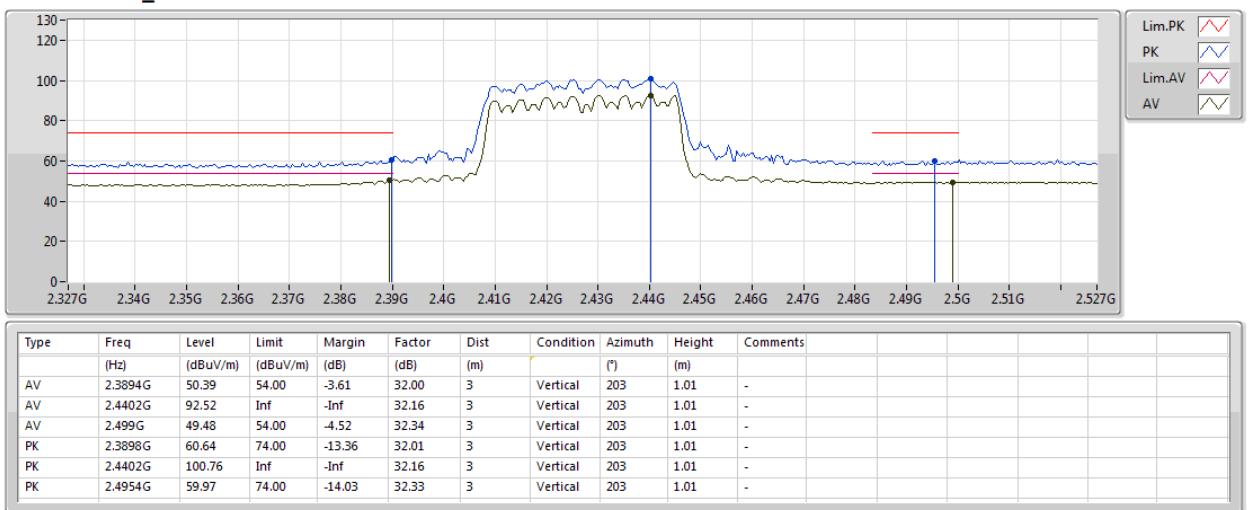




## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2427MHz\_TX

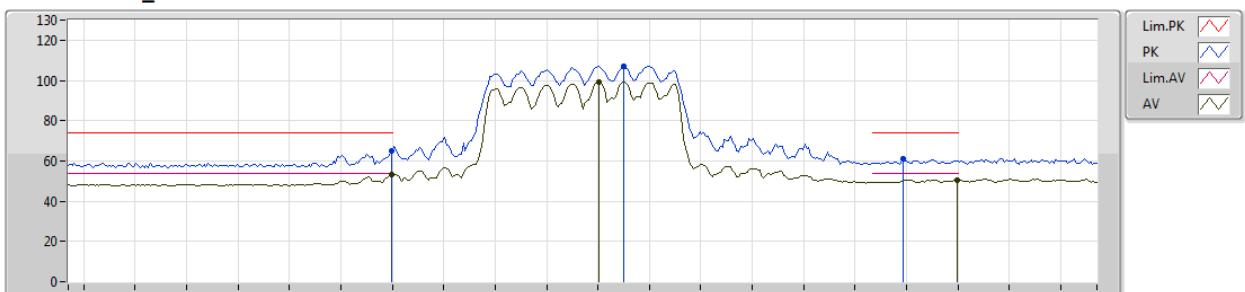




## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2427MHz\_TX



| Type | Freq (Hz) | Level (dBmV/m) | Limit (dBmV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Comments |  |  |  |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|--|--|--|
| AV   | 2.3898G   | 53.24          | 54.00          | -0.76       | 32.01       | 3        | Horizontal | 264         | 1.00       | -        |  |  |  |
| AV   | 2.4302G   | 99.08          | Inf            | -Inf        | 32.13       | 3        | Horizontal | 264         | 1.00       | -        |  |  |  |
| AV   | 2.4998G   | 50.64          | 54.00          | -3.36       | 32.34       | 3        | Horizontal | 264         | 1.00       | -        |  |  |  |
| PK   | 2.3898G   | 64.90          | 74.00          | -9.10       | 32.01       | 3        | Horizontal | 264         | 1.00       | -        |  |  |  |
| PK   | 2.435G    | 107.05         | Inf            | -Inf        | 32.14       | 3        | Horizontal | 264         | 1.00       | -        |  |  |  |
| PK   | 2.4894G   | 61.25          | 74.00          | -12.75      | 32.30       | 3        | Horizontal | 264         | 1.00       | -        |  |  |  |



## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2432MHz\_TX

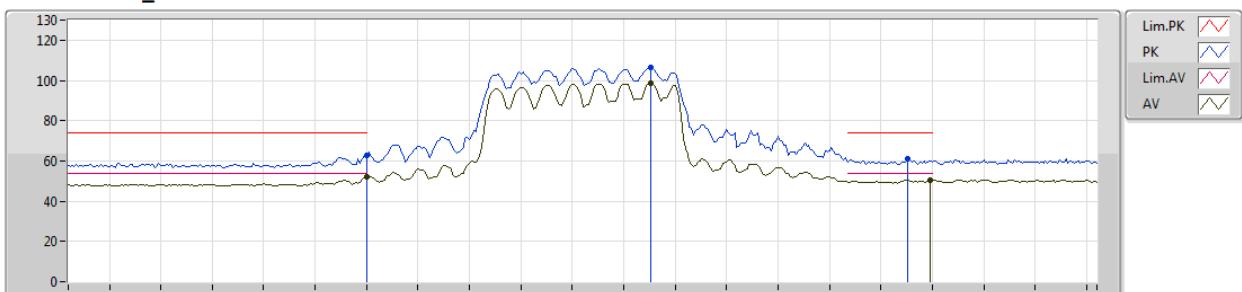




## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2432MHz\_TX



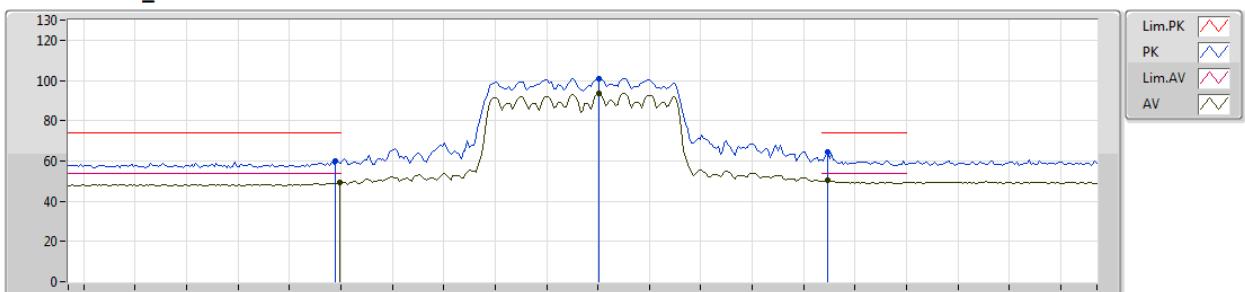
| Type | Freq (Hz) | Level (dBmV/m) | Limit (dBmV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Comments |  |  |  |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|--|--|--|
| AV   | 2.39G     | 51.85          | 54.00          | -2.15       | 32.01       | 3        | Horizontal | 259         | 1.50       | -        |  |  |  |
| AV   | 2.4452G   | 98.57          | Inf            | -Inf        | 32.18       | 3        | Horizontal | 259         | 1.50       | -        |  |  |  |
| AV   | 2.4996G   | 50.20          | 54.00          | -3.80       | 32.34       | 3        | Horizontal | 259         | 1.50       | -        |  |  |  |
| PK   | 2.39G     | 62.92          | 74.00          | -11.08      | 32.01       | 3        | Horizontal | 259         | 1.50       | -        |  |  |  |
| PK   | 2.4452G   | 106.32         | Inf            | -Inf        | 32.18       | 3        | Horizontal | 259         | 1.50       | -        |  |  |  |
| PK   | 2.4952G   | 60.91          | 74.00          | -13.09      | 32.33       | 3        | Horizontal | 259         | 1.50       | -        |  |  |  |



## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2437MHz\_TX



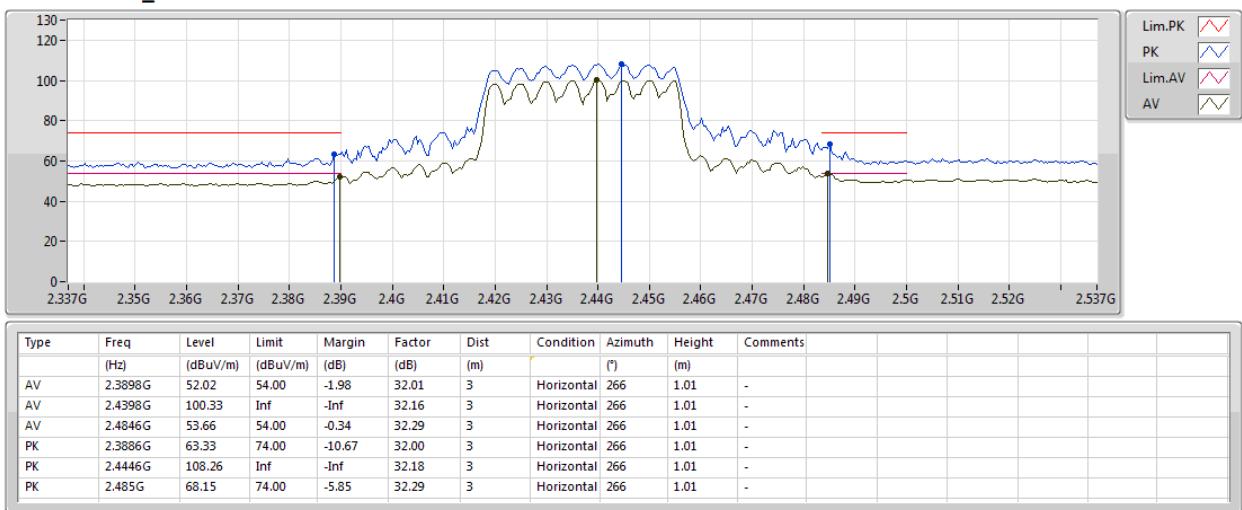
| Type | Freq (Hz) | Level (dBm) | Limit (dBm) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |  |  |  |
|------|-----------|-------------|-------------|-------------|-------------|----------|-----------|-------------|------------|----------|--|--|--|
| AV   | 2.3898G   | 49.13       | 54.00       | -4.87       | 32.01       | 3        | Vertical  | 202         | 1.01       | -        |  |  |  |
| AV   | 2.4402G   | 93.46       | Inf         | -Inf        | 32.16       | 3        | Vertical  | 202         | 1.01       | -        |  |  |  |
| AV   | 2.4846G   | 50.59       | 54.00       | -3.41       | 32.29       | 3        | Vertical  | 202         | 1.01       | -        |  |  |  |
| PK   | 2.389G    | 59.70       | 74.00       | -14.30      | 32.00       | 3        | Vertical  | 202         | 1.01       | -        |  |  |  |
| PK   | 2.4402G   | 101.06      | Inf         | -Inf        | 32.16       | 3        | Vertical  | 202         | 1.01       | -        |  |  |  |
| PK   | 2.4846G   | 64.28       | 74.00       | -9.72       | 32.29       | 3        | Vertical  | 202         | 1.01       | -        |  |  |  |



## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2437MHz\_TX

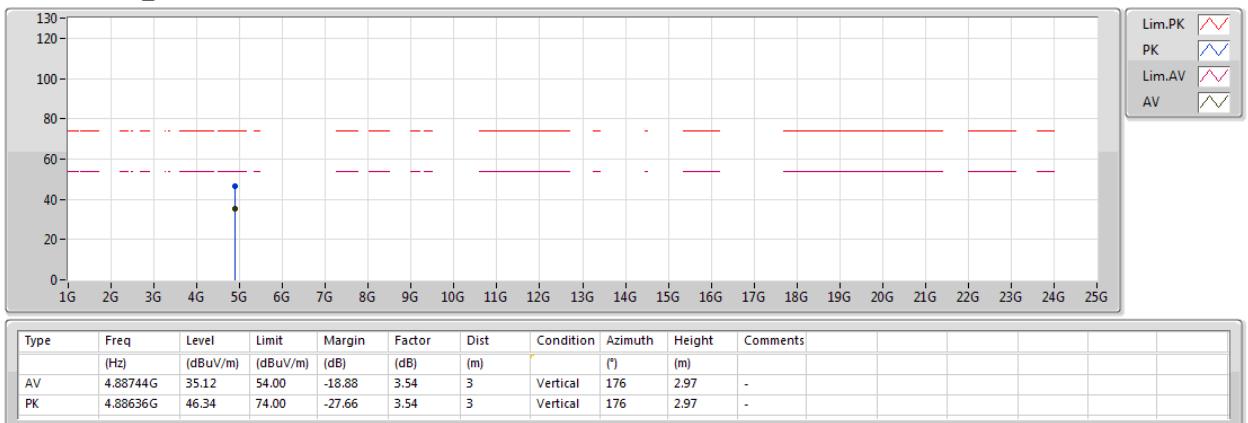




## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2437MHz\_TX

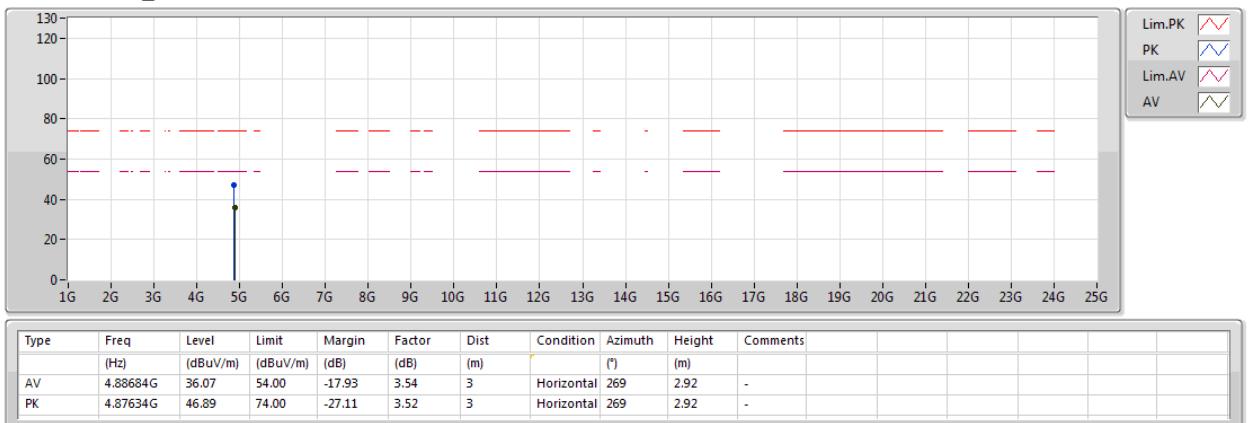




## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2437MHz\_TX

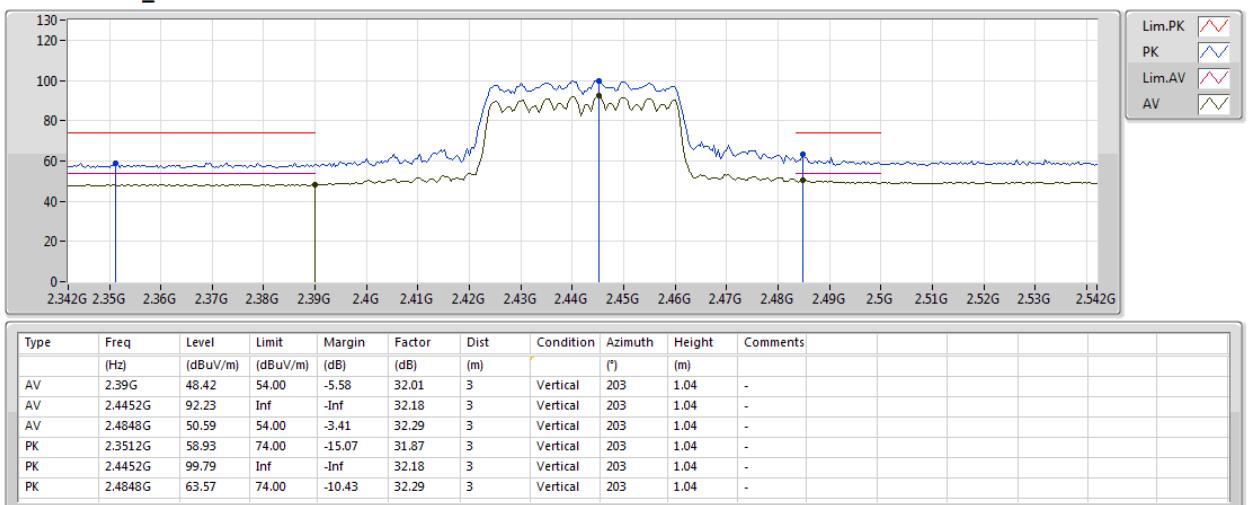




## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2442MHz\_TX

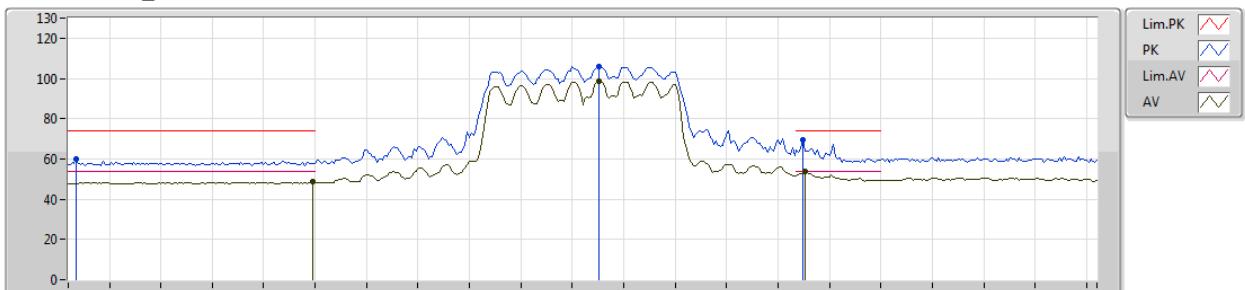




## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2442MHz\_TX



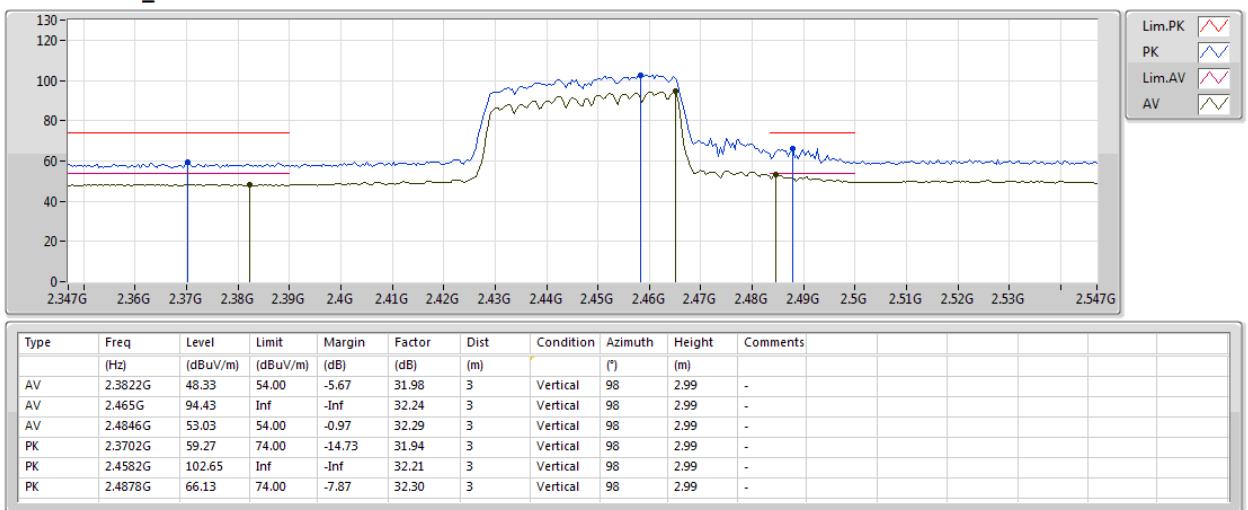
| Type | Freq (Hz) | Level (dBm) | Limit (dBm) | Margin (dB) | Factor (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Comments |  |  |  |
|------|-----------|-------------|-------------|-------------|-------------|----------|------------|-------------|------------|----------|--|--|--|
| AV   | 2.3896G   | 48.66       | 54.00       | -5.34       | 32.01       | 3        | Horizontal | 258         | 1.49       | -        |  |  |  |
| AV   | 2.4452G   | 98.48       | Inf         | -Inf        | 32.18       | 3        | Horizontal | 258         | 1.49       | -        |  |  |  |
| AV   | 2.4852G   | 53.82       | 54.00       | -0.18       | 32.29       | 3        | Horizontal | 258         | 1.49       | -        |  |  |  |
| PK   | 2.3436G   | 59.69       | 74.00       | -14.31      | 31.84       | 3        | Horizontal | 258         | 1.49       | -        |  |  |  |
| PK   | 2.4452G   | 106.17      | Inf         | -Inf        | 32.18       | 3        | Horizontal | 258         | 1.49       | -        |  |  |  |
| PK   | 2.4848G   | 69.72       | 74.00       | -4.28       | 32.29       | 3        | Horizontal | 258         | 1.49       | -        |  |  |  |



## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2447MHz\_TX

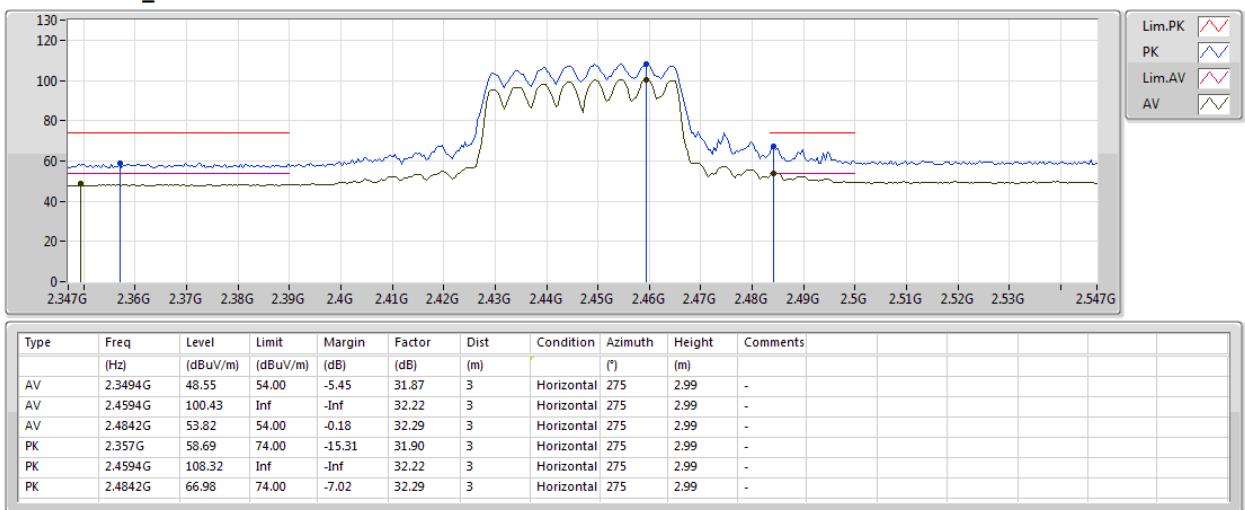




## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2447MHz\_TX

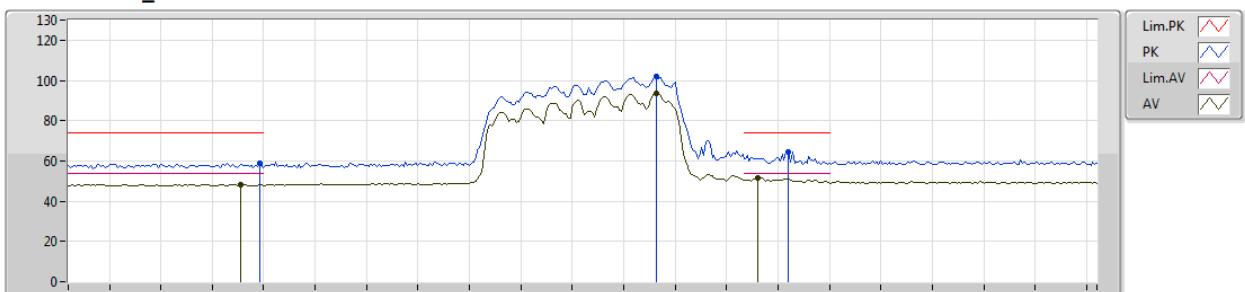




## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2452MHz\_TX



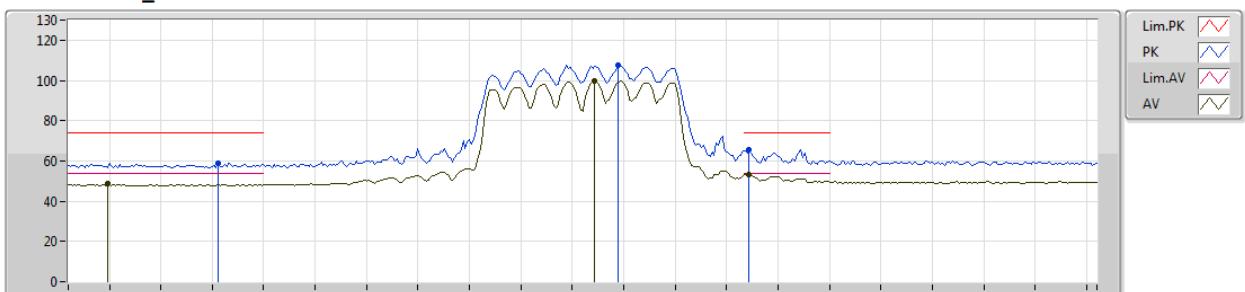
| Type | Freq (Hz) | Level (dBm) | Limit (dBm) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |  |  |  |  |
|------|-----------|-------------|-------------|-------------|-------------|----------|-----------|-------------|------------|----------|--|--|--|--|
| AV   | 2.3856G   | 48.36       | 54.00       | -5.64       | 32.00       | 3        | Vertical  | 138         | 2.99       | -        |  |  |  |  |
| AV   | 2.4664G   | 93.65       | Inf         | -Inf        | 32.24       | 3        | Vertical  | 138         | 2.99       | -        |  |  |  |  |
| AV   | 2.486G    | 51.62       | 54.00       | -2.38       | 32.30       | 3        | Vertical  | 138         | 2.99       | -        |  |  |  |  |
| PK   | 2.3892G   | 58.75       | 74.00       | -15.25      | 32.00       | 3        | Vertical  | 138         | 2.99       | -        |  |  |  |  |
| PK   | 2.4664G   | 102.01      | Inf         | -Inf        | 32.24       | 3        | Vertical  | 138         | 2.99       | -        |  |  |  |  |
| PK   | 2.492G    | 64.40       | 74.00       | -9.60       | 32.32       | 3        | Vertical  | 138         | 2.99       | -        |  |  |  |  |



## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2452MHz\_TX



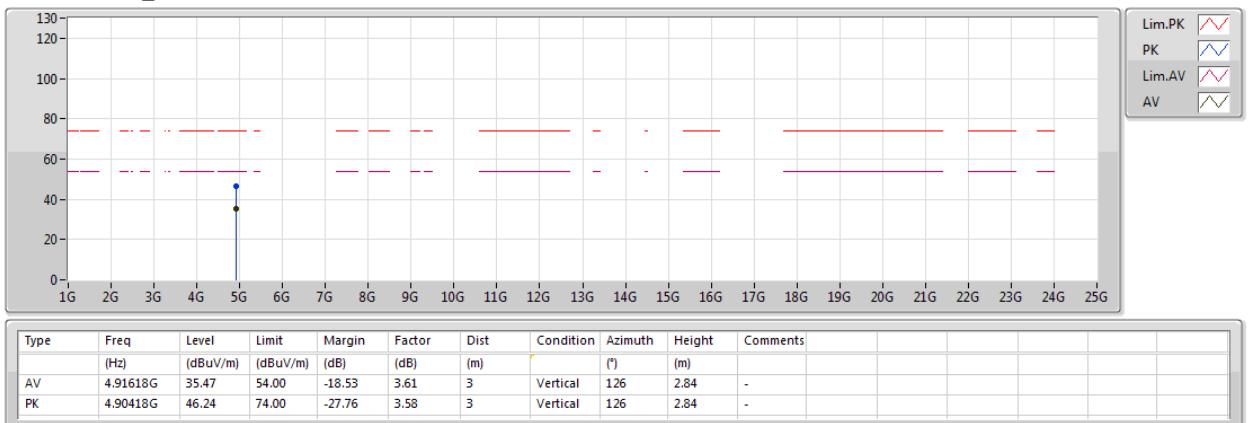
| Type | Freq<br>(Hz) | Level<br>(dBm/Hz) | Limit<br>(dBm/Hz) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|--|--|--|
| AV   | 2.3596G      | 48.49             | 54.00             | -5.51          | 31.90          | 3           | Horizontal | 277            | 2.99          | -        |  |  |  |
| AV   | 2.4544G      | 99.54             | Inf               | -Inf           | 32.20          | 3           | Horizontal | 277            | 2.99          | -        |  |  |  |
| AV   | 2.4844G      | 53.51             | 54.00             | -0.49          | 32.29          | 3           | Horizontal | 277            | 2.99          | -        |  |  |  |
| PK   | 2.3812G      | 58.74             | 74.00             | -15.26         | 31.97          | 3           | Horizontal | 277            | 2.99          | -        |  |  |  |
| PK   | 2.4588G      | 107.56            | Inf               | -Inf           | 32.22          | 3           | Horizontal | 277            | 2.99          | -        |  |  |  |
| PK   | 2.4844G      | 65.84             | 74.00             | -8.16          | 32.29          | 3           | Horizontal | 277            | 2.99          | -        |  |  |  |



## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2452MHz\_TX

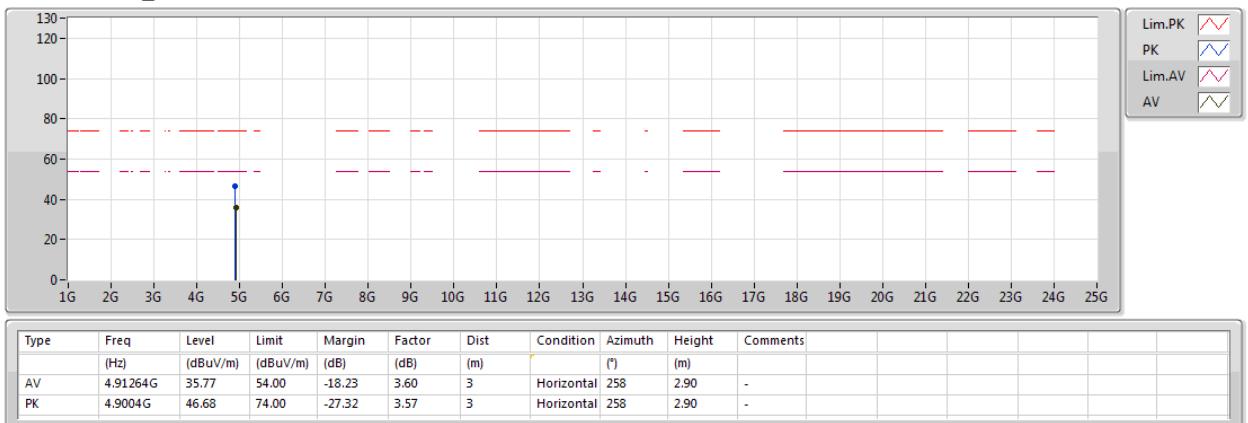




## 802.11n HT40\_Nss1,(MCS0)\_3TX

20/12/2018

## 2452MHz\_TX



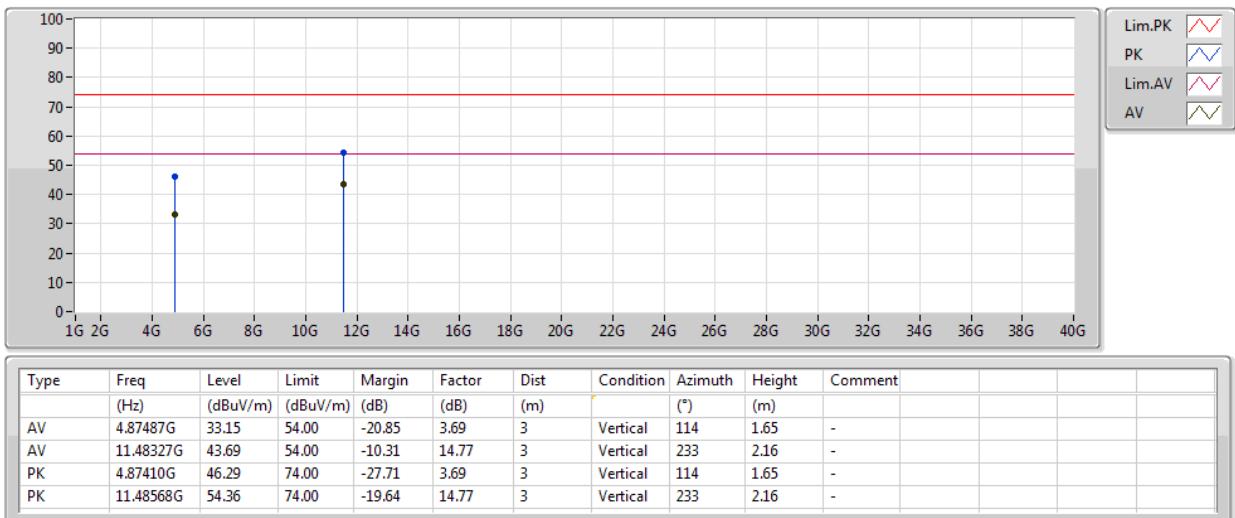


**Summary**

| Mode   | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Comments |
|--------|--------|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| Mode 1 | Pass   | AV   | 11.48237G | 44.78          | 54.00          | -9.22       | 14.77       | 3        | Horizontal | 292         | 1.72       | -        |

**Radiation-above 1GHz\_Mode 1**

29/12/2018



**Radiation-above 1GHz\_Mode 1**

29/12/2018

