



# RADIO TEST REPORT

**FCC ID** : 2AV57GS1LTE1  
**Equipment** : Video Telematics Sensor  
**Brand Name** : Geotab Inc.  
**Model Name** : GS1-LTE1  
**Applicant** : Geotab Inc.  
2440 Winston Park Drive, Oakville, Ontario, L6H 7V2, Canada  
**Manufacturer** : Geotab Inc.  
2440 Winston Park Drive, Oakville, Ontario, L6H 7V2, Canada  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Jan. 29, 2024, and testing was started from Feb. 22, 2024 and completed on Jun. 27, 2024. We, Sporton International Inc. Hsinchu 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 test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

***Sporton International Inc. Hsinchu Laboratory***

*No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)*



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## History of this test report

TEL : 886-3-656-9065  
FAX : 886-3-656-9085  
Report Template No.: CB-A10\_10 Ver1.3

Page Number : 3 of 23  
Issued Date : Aug. 01, 2024  
Report Version : 01



## Summary of Test Result

| Report Clause                                                                                                                              | Ref Std. Clause | Test Items                                  | Result (PASS/FAIL) | Remark |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------|--------------------|--------|
| 1.1.2                                                                                                                                      | 15.203          | Antenna Requirement                         | PASS               | -      |
| -                                                                                                                                          | 15.207          | AC Power-line Conducted Emissions           | N/A                | Note 1 |
| 3.1                                                                                                                                        | 15.247(a)       | DTS Bandwidth                               | PASS               | -      |
| 3.2                                                                                                                                        | 15.247(b)       | Maximum Conducted Output Power              | PASS               | -      |
| 3.3                                                                                                                                        | 15.247(e)       | Power Spectral Density                      | PASS               | -      |
| 3.4                                                                                                                                        | 15.247(d)       | Emissions in Non-restricted Frequency Bands | PASS               | -      |
| 3.5                                                                                                                                        | 15.247(d)       | Emissions in Restricted Frequency Bands     | PASS               | -      |
| Note 1: The EUT was supplied power by DC-Powered (vehicle battery); it's not necessary to apply to AC Power-line Conducted Emissions test. |                 |                                             |                    |        |
| Note 2: Reference to Sporton Project No.: 411919                                                                                           |                 |                                             |                    |        |

### Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

### Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Sam Chen**

**Report Producer: Muse Chan**



# 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]      |

| Band          | Mode         | BWch (MHz) | Nant |
|---------------|--------------|------------|------|
| 2.4-2.4835GHz | 802.11b      | 20         | 1TX  |
| 2.4-2.4835GHz | 802.11g      | 20         | 1TX  |
| 2.4-2.4835GHz | 802.11n HT20 | 20         | 1TX  |

Note:

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

### 1.1.2 Antenna Information

| Ant. | Port | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|------|-------|------------|--------------|-----------|------------|
| 1    | 1    | WNC   | UCD-LI80   | Monopole     | N/A       | 2.55       |

Note 1: The WLAN 2.4GHz and Bluetooth cannot function at the same time.

Note 2: The above information was declared by manufacturer.

Note 3: **For 2.4GHz function:**

**For IEEE 802.11 b/g/n (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

**For Bluetooth function (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

### 1.1.3 Mode Test Duty Cycle

| Mode                    | DC    | DCF (dB) | T (s)          | VBW (Hz)_1/T   |
|-------------------------|-------|----------|----------------|----------------|
| 802.11b_Nss 1,(1D)      | 0.988 | 0.05     | n/a (DC>=0.98) | n/a (DC>=0.98) |
| 802.11g_Nss 1,(6D)      | 0.936 | 0.29     | 1.432m         | 1k             |
| 802.11n HT20_Nss 1,(M0) | 0.933 | 0.3      | 1.342m         | 1k             |

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

**1.1.4 EUT Operational Condition**

|                                   |                                     |                     |                                                         |
|-----------------------------------|-------------------------------------|---------------------|---------------------------------------------------------|
| <b>EUT Power Type</b>             | From host vehicle (12/24V)          |                     |                                                         |
| <b>EUT Power Type for Testing</b> | From DC power supply (24V)          |                     |                                                         |
| <b>Beamforming Function</b>       | <input type="checkbox"/>            | With beamforming    | <input checked="" type="checkbox"/> Without beamforming |
| <b>Function</b>                   | <input checked="" type="checkbox"/> | Point-to-multipoint | <input type="checkbox"/> Point-to-point                 |
| <b>Test Software Version</b>      | DOS V6.1.7601                       |                     |                                                         |

Note: The above information was declared by manufacturer.

**1.1.5 Table of WWAN Module Function**

| <b>Brand Name</b> | <b>Model Name</b> | <b>Function</b>                         |
|-------------------|-------------------|-----------------------------------------|
| Quectel           | EG91-NAXD         | LTE Band: 2 / 4 / 5 / 12 / 13 / 25 / 26 |

Note: The above information was declared by manufacturer.



## 1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.247
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 414788 D01 v01r01

## 1.3 Testing Location Information

| Testing Location Information                                                               |  |  |  |  |
|--------------------------------------------------------------------------------------------|--|--|--|--|
| Test Lab. : Sporton International Inc. Hsinchu Laboratory                                  |  |  |  |  |
| Hsinchu ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) |  |  |  |  |
| (TAF: 3787) TEL: 886-3-656-9065 FAX: 886-3-656-9085                                        |  |  |  |  |
| Test site Designation No. TW3787 with FCC.                                                 |  |  |  |  |
| Conformity Assessment Body Identifier (CABID) TW3787 with ISCED.                           |  |  |  |  |

| Test Condition  | Test Site No. | Test Engineer | Test Environment<br>(°C / %) | Test Date                       |
|-----------------|---------------|---------------|------------------------------|---------------------------------|
| RF Conducted    | TH02-CB       | Mason Chan    | 20.6~22 / 66~71              | Feb. 26, 2024~<br>Mar. 07, 2024 |
| Radiated < 1GHz | 03CH05-CB     | Young Yang    | 21.6~22.7 / 55~58            | Jun. 27, 2024                   |
| Radiated > 1GHz | 03CH04-CB     |               | 22.7~23.8 / 56~59            | Feb. 22, 2024~<br>Mar. 05, 2024 |

Note: The tested sample of the Radiated below 1GHz test item was received on Jun. 27, 2024.

## 1.4 Measurement Uncertainty

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

| Test Items                           | Uncertainty | Remark                   |
|--------------------------------------|-------------|--------------------------|
| Radiated Emission (9kHz ~ 30MHz)     | 4.1 dB      | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 4.2 dB      | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 4.1 dB      | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 4.2 dB      | Confidence levels of 95% |
| Conducted Emission                   | 3.1 dB      | Confidence levels of 95% |
| Output Power Measurement             | 0.8 dB      | Confidence levels of 95% |
| Power Density Measurement            | 3.1 dB      | Confidence levels of 95% |
| Bandwidth Measurement                | 2.2%        | Confidence levels of 95% |



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

| Mode                         |
|------------------------------|
| 802.11b_Nss1,(1Mbps)_1TX     |
| 2412MHz                      |
| 2417MHz                      |
| 2437MHz                      |
| 2457MHz                      |
| 2462MHz                      |
| 802.11g_Nss1,(6Mbps)_1TX     |
| 2412MHz                      |
| 2417MHz                      |
| 2437MHz                      |
| 2457MHz                      |
| 2462MHz                      |
| 802.11n HT20_Nss1,(MCS0)_1TX |
| 2412MHz                      |
| 2417MHz                      |
| 2437MHz                      |
| 2457MHz                      |
| 2462MHz                      |



## 2.2 The Worst Case Measurement Configuration

| 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<br>"EUT in X axis" generated the worst case at Radiated measurement > 1GHz. Consequently, the measurement will follow this same test mode.                                                                                                      |
| 1                                                                              | EUT in X axis_Bluetooth                                                                                                                                                                                                                             |
| 2                                                                              | EUT in X axis_WLAN 2.4GHz                                                                                                                                                                                                                           |
| For operating, mode 1 is the worst case and it was record in this test report. |                                                                                                                                                                                                                                                     |
| <b>Operating Mode &gt; 1GHz</b>                                                | CTX<br>After evaluating, EUT in X axis was the worst case, so the measurement will follow this same test configuration.                                                                                                                             |
| 1                                                                              | EUT in X axis                                                                                                                                                                                                                                       |

| The Worst Case Mode for Following Conformance Tests                                   |                                                                         |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>Tests Item</b>                                                                     | Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation |
| <b>Operating Mode</b>                                                                 |                                                                         |
| 1                                                                                     | WWAN + WLAN 2.4GHz                                                      |
| 2                                                                                     | WWAN + Bluetooth                                                        |
| Refer to Sporton Test Report No.: FA411919-01 for Co-location RF Exposure Evaluation. |                                                                         |

## 2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

## 2.4 Accessories

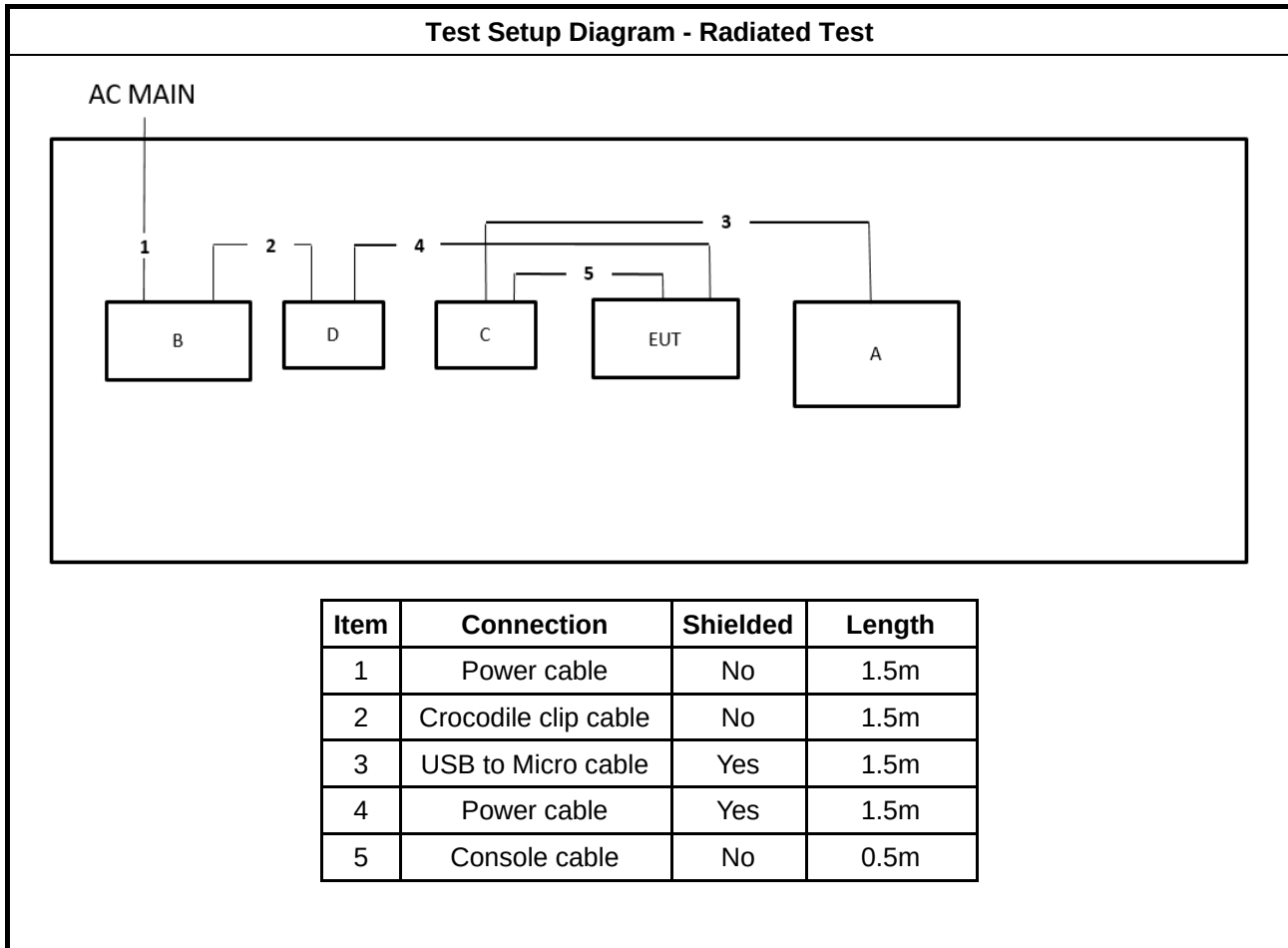
N/A



## 2.5 Support Equipment

| Support Equipment |                 |            |            |        |
|-------------------|-----------------|------------|------------|--------|
| No.               | Equipment       | Brand Name | Model Name | FCC ID |
| A                 | Notebook        | DELL       | E4300      | N/A    |
| B                 | DC Power Supply | MOTECH     | LPS-305    | N/A    |
| C                 | Fixture         | WNC        | E24447     | N/A    |
| D                 | Power fixture   | SHIG YANG  | USB-02     | N/A    |

## 2.6 Test Setup Diagram



### 3 Transmitter Test Result

#### 3.1 DTS Bandwidth

##### 3.1.1 6dB Bandwidth Limit

| 6dB Bandwidth Limit                                                                         |
|---------------------------------------------------------------------------------------------|
| Systems using digital modulation techniques:                                                |
| <ul style="list-style-type: none"> <li>6 dB bandwidth <math>\geq</math> 500 kHz.</li> </ul> |

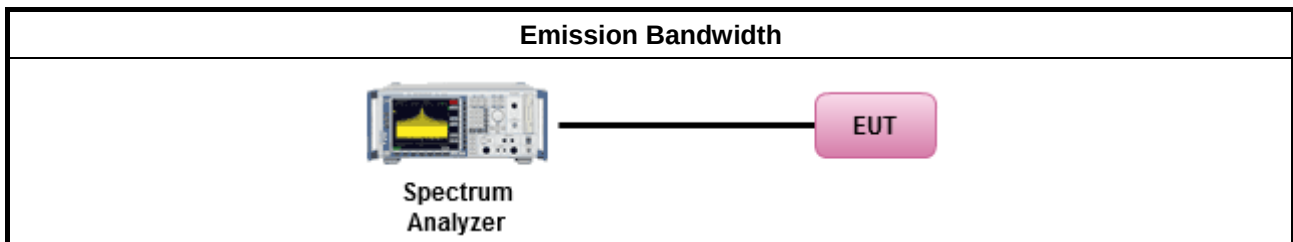
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

| Test Method                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>For the emission bandwidth shall be measured using one of the options below:</li> </ul>          |
| <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement. |
| <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.            |
| <input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.                                             |

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



## 3.2 Maximum Conducted Output Power

### 3.2.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit                                                                                                                              |                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                   | ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)                                           |
|                                                                                                                                                                   | ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm     |
|                                                                                                                                                                   | ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm        |
|                                                                                                                                                                   | ▪ Smart antenna system (SAS):                                                                        |
|                                                                                                                                                                   | - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm                         |
|                                                                                                                                                                   | - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm                        |
|                                                                                                                                                                   | - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm |
| $P_{Out}$ = maximum peak conducted output power or maximum conducted output power in dBm,<br>$G_{TX}$ = the maximum transmitting antenna directional gain in dBi. |                                                                                                      |

### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

| Test Method                           |                                                                                                                                                               |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ▪ Maximum Peak Conducted Output Power |                                                                                                                                                               |
|                                       | <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW $\geq$ EBW method).                                            |
|                                       | <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).                                                 |
| ▪ Maximum Conducted Output Power      |                                                                                                                                                               |
|                                       | [duty cycle $\geq$ 98% or external video / power trigger]                                                                                                     |
|                                       | <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.                                                   |
|                                       | <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)                                    |
|                                       | duty cycle < 98% and average over on/off periods with duty factor                                                                                             |
|                                       | <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.                                                   |
|                                       | <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)                                     |
|                                       | <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3                                                    |
|                                       | <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)                                     |
|                                       | Measurement using a power meter (PM)                                                                                                                          |
|                                       | <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).                   |
|                                       | <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter). |
|                                       |                                                                                                                                                               |
|                                       |                                                                                                                                                               |

▪ For conducted measurement.

- If the EUT supports multiple transmit chains using options given below:  
Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
- If multiple transmit chains, EIRP calculation could be following as methods:  

$$P_{total} = P_1 + P_2 + \dots + P_n$$
 (calculated in linear unit [mW] and transfer to log unit [dBm])  

$$EIRP_{total} = P_{total} + DG$$

### 3.2.4 Test Setup

**Maximum Conducted Output Power (Power Meter)**



### 3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B



### 3.3 Power Spectral Density

#### 3.3.1 Power Spectral Density Limit

| Power Spectral Density Limit                     |
|--------------------------------------------------|
| ▪ Power Spectral Density (PSD) $\leq 8$ dBm/3kHz |

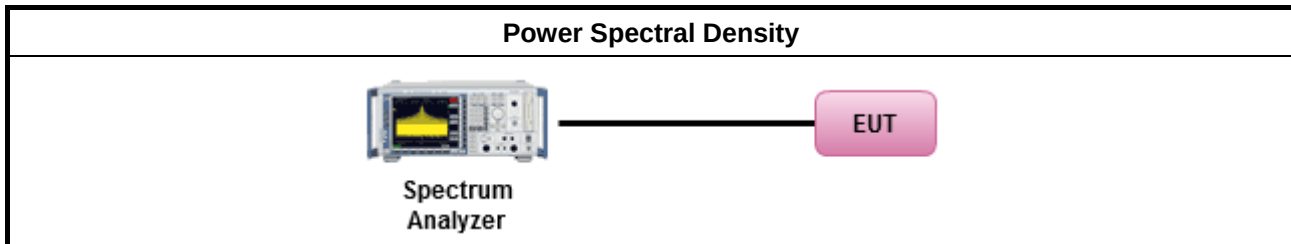
#### 3.3.2 Measuring Instruments

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

#### 3.3.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option). |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ▪ For conducted measurement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ▪ If The EUT supports multiple transmit chains using options given below:                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,                                                                                                                                                                                                         |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.                                                                                                                                                                                                                                                                                                                  |

### 3.3.4 Test Setup



### 3.3.5 Test Result of Power Spectral Density

Refer as Appendix C

### 3.4 Emissions in Non-restricted Frequency Bands

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

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

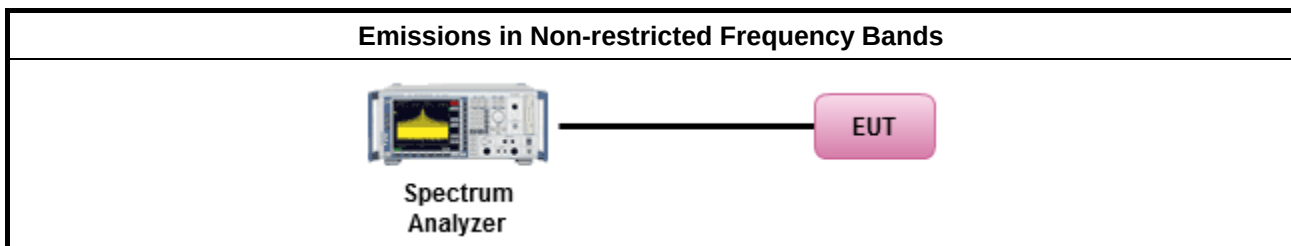
#### 3.4.2 Measuring Instruments

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

#### 3.4.3 Test Procedures

| Test Method                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.</li> </ul> |

#### 3.4.4 Test Setup



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

Refer as Appendix D

### 3.5 Emissions in Restricted Frequency Bands

#### 3.5.1 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.

#### 3.5.2 Measuring Instruments

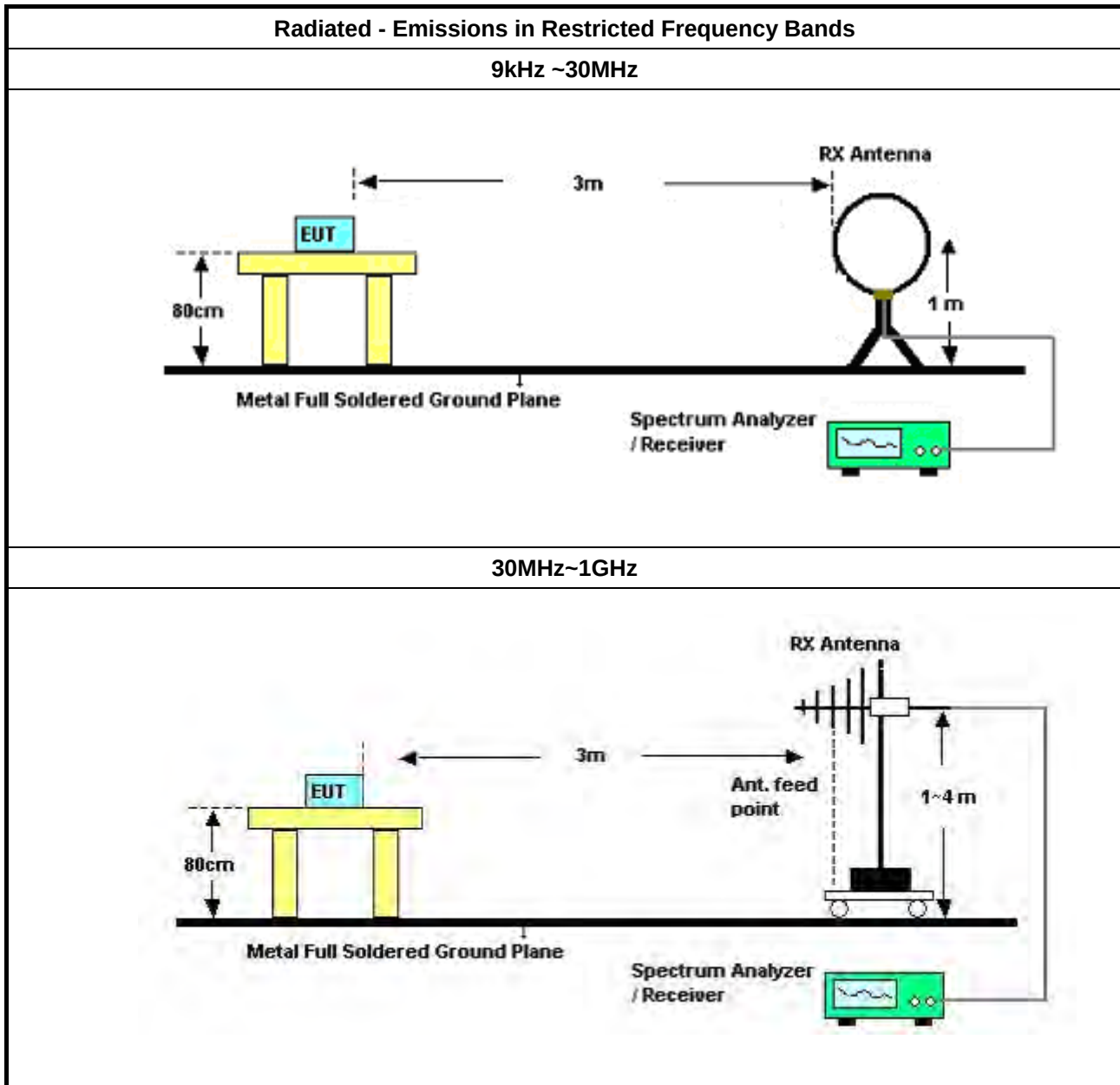
Refer a test equipment and calibration data table in this test report.

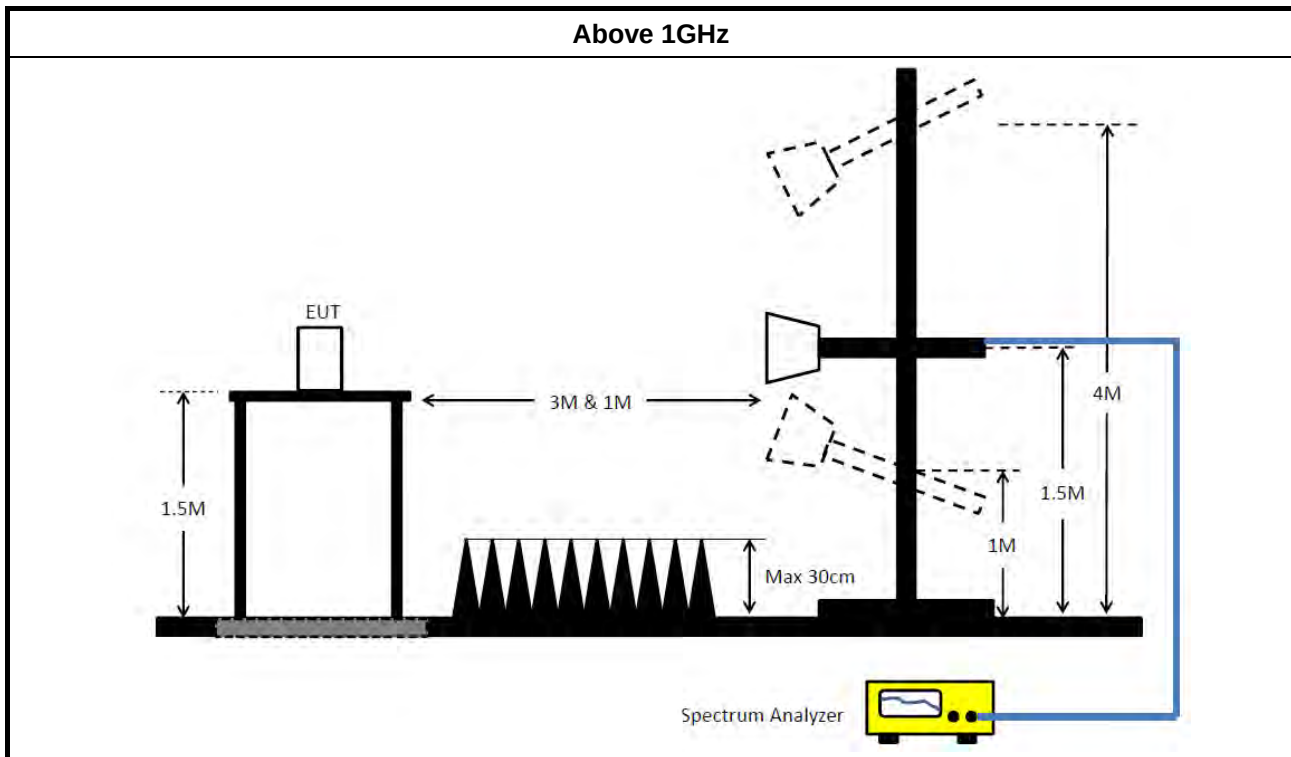


### 3.5.3 Test Procedures

| 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 FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.                                                                                                                                                                                                                                                            |
|                                                                                                                                                                             | <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$ ).                                                                                                                                                                                                         |
|                                                                                                                                                                             | <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).                                                                                                                                                                                                                       |
|                                                                                                                                                                             | <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$ ).                                                                                                                                                                                                                  |
|                                                                                                                                                                             | <input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$ , where T is pulse time.                                                                                                                                                                                                                       |
|                                                                                                                                                                             | <input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.                                                                                                                                                                                                                                                   |
|                                                                                                                                                                             | <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.                                                                                                                                                                                                            |
| ▪ For the transmitter band-edge emissions shall be measured using following options below:                                                                                  |                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                             | ▪ Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.                                                                                                     |
|                                                                                                                                                                             | ▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.                                                                                                                                                                                                                         |
|                                                                                                                                                                             | ▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).                                                                                                                                                                                           |
|                                                                                                                                                                             | ▪ For conducted unwanted emissions into restricted bands (absolute emission limits).<br>Devices with multiple transmit chains using options given below:<br>(1) Measure and sum the spectra across the outputs or<br>(2) Measure and add 10 log(N) dB                                                                                          |
|                                                                                                                                                                             | ▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred. |

### 3.5.4 Test Setup





### 3.5.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

### 3.5.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

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

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

Refer as Appendix E



## 4 Test Equipment and Calibration Data

| Instrument                        | Brand          | Model No.          | Serial No.       | Characteristics  | Calibration Date | Calibration Due Date | Remark                |
|-----------------------------------|----------------|--------------------|------------------|------------------|------------------|----------------------|-----------------------|
| Loop Antenna                      | Teseq          | HLA 6121           | 65417            | 9kHz - 30 MHz    | Oct. 13, 2023    | Oct. 12, 2024        | Radiation (03CH05-CB) |
| 3m Semi Anechoic Chamber NSA      | TDK            | SAC-3M             | 03CH05-CB        | 30 MHz ~ 1 GHz   | Aug. 02, 2023    | Aug. 01, 2024        | Radiation (03CH05-CB) |
| Bilog Antenna with 6dB Attenuator | TESEQ & EMCI   | CBL 6112D & N-6-06 | 35236 & AT-N0610 | 30MHz ~ 2GHz     | Mar. 23, 2024    | Mar. 22, 2025        | Radiation (03CH05-CB) |
| Amplifier                         | EMCI           | EMC330N            | 980331           | 20MHz ~ 3GHz     | May 02, 2024     | May 01, 2025         | Radiation (03CH05-CB) |
| Spectrum Analyzer                 | R&S            | FSP40              | 100304           | 9kHz ~ 40GHz     | Apr. 17, 2024    | Apr. 16, 2025        | Radiation (03CH05-CB) |
| EMI Test Receiver                 | R&S            | ESR7               | 102172           | 9kHz ~ 7GHz      | Oct. 20, 2023    | Oct. 19, 2024        | Radiation (03CH05-CB) |
| RF Cable-low                      | Woken          | RG402              | Low Cable-04+23  | 30MHz~1GHz       | Dec. 06, 2023    | Dec. 05, 2024        | Radiation (03CH05-CB) |
| Test Software                     | SPORTON        | SENSE              | V5.10            | -                | N.C.R.           | N.C.R.               | Radiation (03CH05-CB) |
| 3m Semi Anechoic Chamber VSWR     | TDK            | SAC-3M             | 03CH04-CB        | 1GHz ~18GHz 3m   | Feb. 24, 2022    | Feb. 23, 2023        | Radiation (03CH04-CB) |
| 3m Semi Anechoic Chamber VSWR     | TDK            | SAC-3M             | 03CH04-CB        | 1GHz ~18GHz 3m   | Feb. 23, 2023    | Feb. 22, 2024        | Radiation (03CH04-CB) |
| Horn Antenna                      | ETS • Lindgren | 3115               | 00143147         | 750MHz~18GHz     | Oct. 12, 2022    | Oct. 11, 2023        | Radiation (03CH04-CB) |
| Horn Antenna                      | Schwarzbeck    | BBHA 9170          | BBHA9170252      | 15GHz ~ 40GHz    | Sep. 04, 2023    | Sep. 03, 2024        | Radiation (03CH04-CB) |
| Pre-Amplifier                     | Agilent        | 83017A             | MY53270063       | 0.5GHz ~ 26.5GHz | Jul. 01, 2022    | Jun. 30, 2023        | Radiation (03CH04-CB) |
| Pre-Amplifier                     | SGH            | SGH184             | 20221107-3       | 18GHz ~ 40GHz    | Nov. 24, 2023    | Nov. 23, 2024        | Radiation (03CH04-CB) |
| Spectrum Analyzer                 | R&S            | FSP40              | 100142           | 9kHz~40GHz       | Mar. 28, 2022    | Mar. 27, 2023        | Radiation (03CH04-CB) |
| RF Cable-high                     | Woken          | RG402              | High Cable-21    | 1GHz - 18GHz     | Oct. 03, 2022    | Oct. 02, 2023        | Radiation (03CH04-CB) |
| RF Cable-high                     | Woken          | RG402              | High Cable-21+67 | 1GHz - 18GHz     | Oct. 03, 2022    | Oct. 02, 2023        | Radiation (03CH04-CB) |
| High Cable                        | Woken          | WCA0929M           | 40G#5+6          | 1GHz ~ 40GHz     | Jan. 11, 2024    | Jan. 10, 2025        | Radiation (03CH04-CB) |
| Test Software                     | SPORTON        | SENSE              | V5.10            | -                | N.C.R.           | N.C.R.               | Radiation (03CH04-CB) |
| Spectrum analyzer                 | R&S            | FSV40              | 101027           | 9kHz~40GHz       | Aug. 14, 2023    | Aug. 13, 2024        | Conducted (TH02-CB)   |



| Instrument    | Brand   | Model No. | Serial No.    | Characteristics | Calibration Date | Calibration Due Date | Remark              |
|---------------|---------|-----------|---------------|-----------------|------------------|----------------------|---------------------|
| Power Sensor  | Anritsu | MA2411B   | 1126203       | 300MHz~40GHz    | Oct. 19, 2023    | Oct. 18, 2024        | Conducted (TH02-CB) |
| Power Meter   | Anritsu | ML2495A   | 1210004       | 300MHz~40GHz    | Oct. 19, 2023    | Oct. 18, 2024        | Conducted (TH02-CB) |
| RF Cable-high | Woken   | RG402     | High Cable-01 | 1GHz – 18GHz    | Oct. 02, 2023    | Oct. 01, 2024        | Conducted (TH02-CB) |
| RF Cable-high | Woken   | RG402     | High Cable-02 | 1GHz – 18GHz    | Oct. 02, 2023    | Oct. 01, 2024        | Conducted (TH02-CB) |
| RF Cable-high | Woken   | RG402     | High Cable-03 | 1GHz – 18GHz    | Oct. 02, 2023    | Oct. 01, 2024        | Conducted (TH02-CB) |
| RF Cable-high | Woken   | RG402     | High Cable-04 | 1GHz – 18GHz    | Oct. 02, 2023    | Oct. 01, 2024        | Conducted (TH02-CB) |
| RF Cable-high | Woken   | RG402     | High Cable-05 | 1GHz – 18GHz    | Oct. 02, 2023    | Oct. 01, 2024        | Conducted (TH02-CB) |
| Switch        | SPTCB   | SP-SWI    | SWI-02        | 1–26.5GHz       | Oct. 03, 2023    | Oct. 02, 2024        | Conducted (TH02-CB) |
| Test Software | SPORTON | SENSE     | V5.10         | -               | N.C.R.           | N.C.R.               | Conducted (TH02-CB) |

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

NCR means Non-Calibration required.

**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     | 7.525M           | 12.774M         | 12M8G1D  | 6.55M            | 12.715M         |
| 802.11g_Nss1,(6Mbps)_1TX     | 16.275M          | 16.939M         | 16M9D1D  | 14.45M           | 16.303M         |
| 802.11n HT20_Nss1,(MCS0)_1TX | 17.525M          | 17.584M         | 17M6D1D  | 12.575M          | 17.35M          |

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

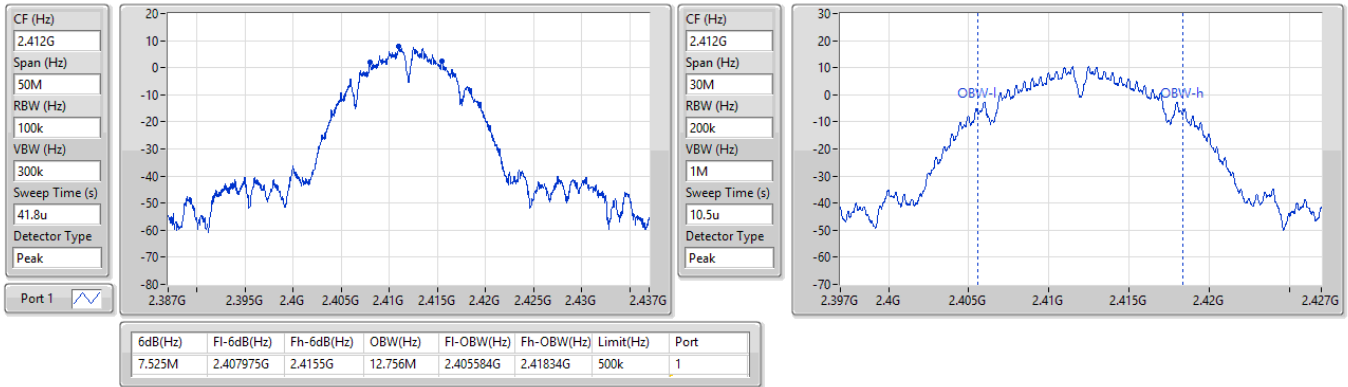
**Result**

| Mode                         | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) |
|------------------------------|--------|---------------|---------------------|--------------------|
| 802.11b_Nss1,(1Mbps)_1TX     | -      | -             | -                   | -                  |
| 2412MHz                      | Pass   | 500k          | 7.525M              | 12.756M            |
| 2437MHz                      | Pass   | 500k          | 6.6M                | 12.715M            |
| 2462MHz                      | Pass   | 500k          | 6.55M               | 12.774M            |
| 802.11g_Nss1,(6Mbps)_1TX     | -      | -             | -                   | -                  |
| 2412MHz                      | Pass   | 500k          | 14.45M              | 16.33M             |
| 2437MHz                      | Pass   | 500k          | 16.1M               | 16.939M            |
| 2462MHz                      | Pass   | 500k          | 16.275M             | 16.303M            |
| 802.11n HT20_Nss1,(MCS0)_1TX | -      | -             | -                   | -                  |
| 2412MHz                      | Pass   | 500k          | 13.8M               | 17.35M             |
| 2437MHz                      | Pass   | 500k          | 12.575M             | 17.584M            |
| 2462MHz                      | Pass   | 500k          | 17.525M             | 17.477M            |

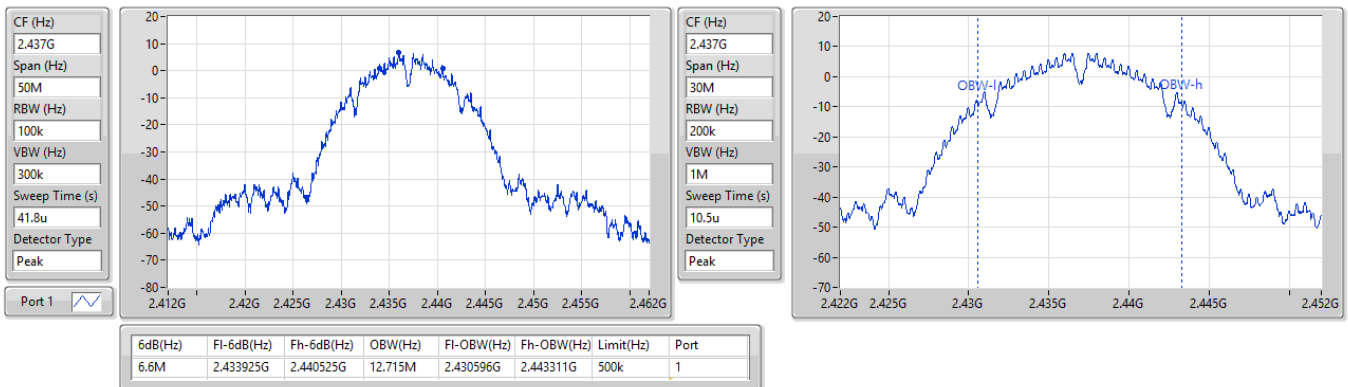
Port X-N dB = Port X 6dB down bandwidth;  
Port X-OBW = Port X 99% occupied bandwidth

**2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2412MHz**

26/02/2024

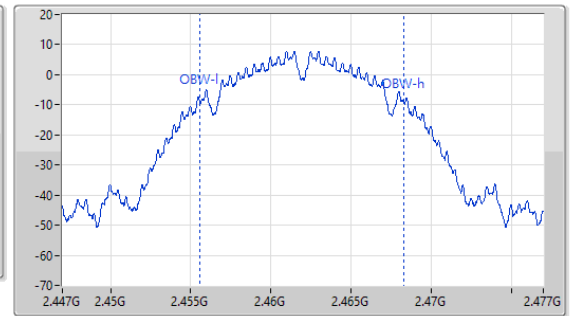
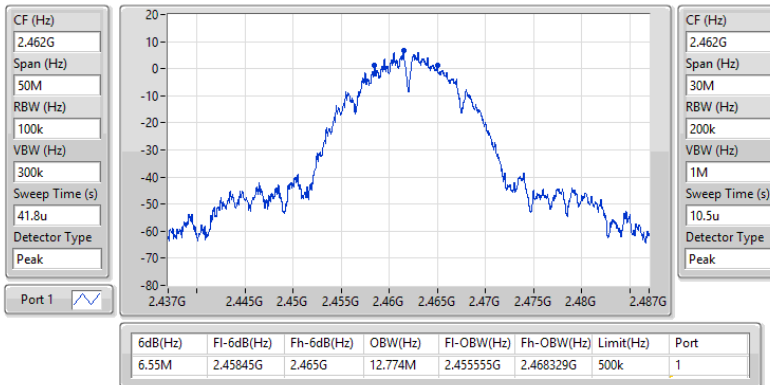

**2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2437MHz**

07/03/2024

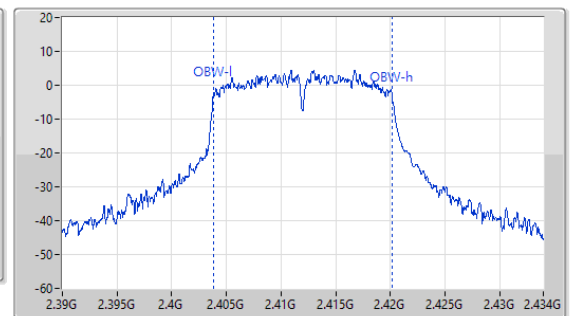
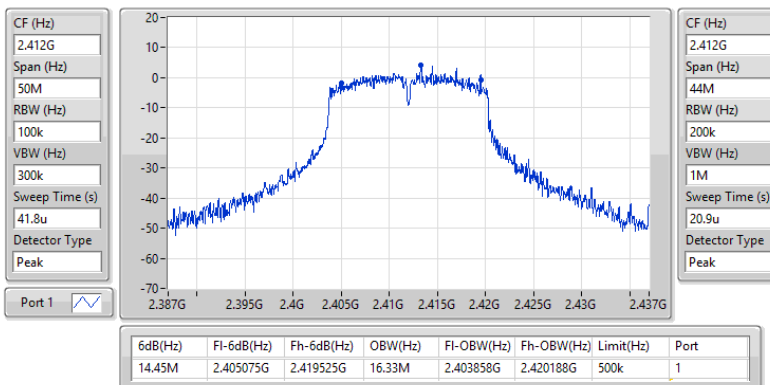


**2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2462MHz**

07/03/2024


**2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX**
**EBW**
**2412MHz**

26/02/2024

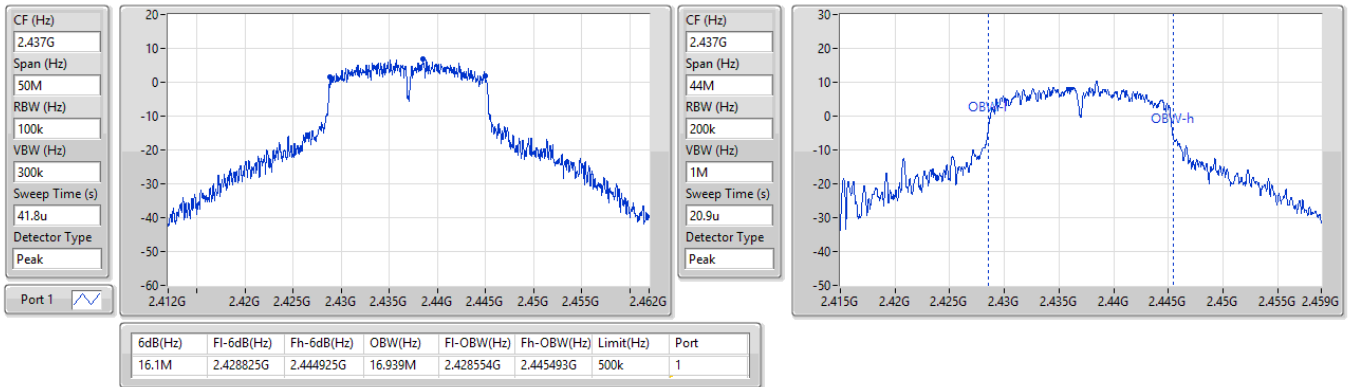


2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

EBW

2437MHz

26/02/2024

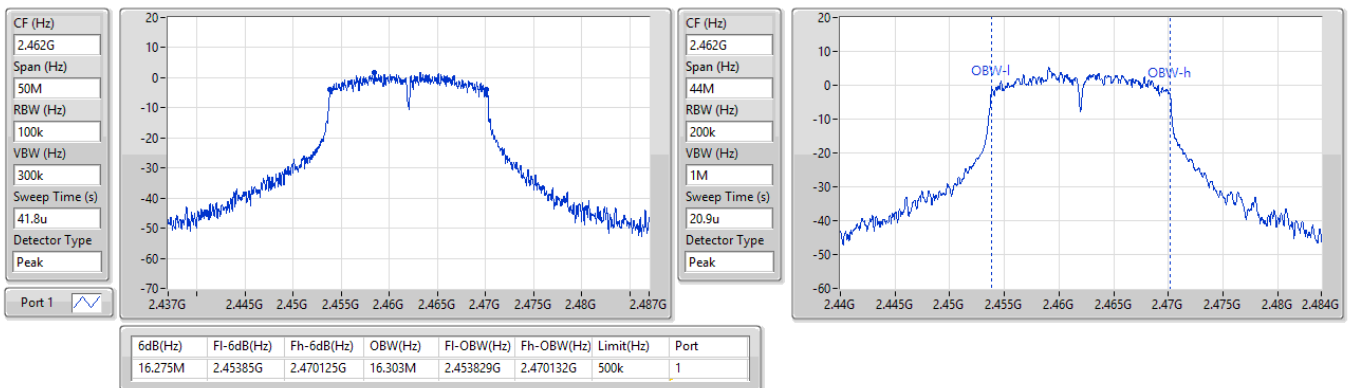


2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

EBW

2462MHz

26/02/2024

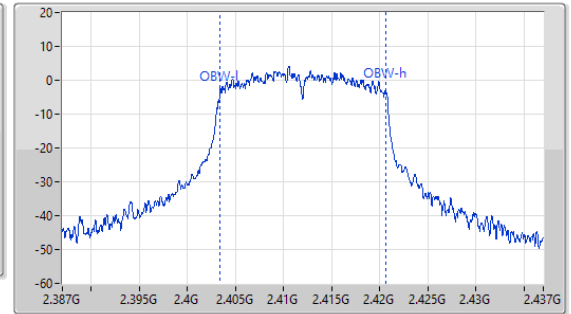
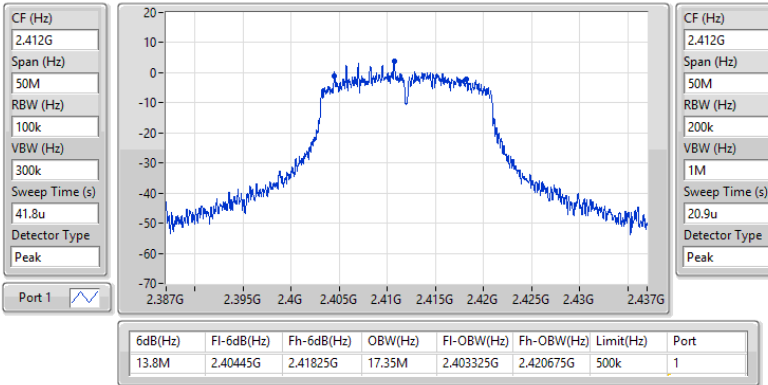


## 2.4-2.4835GHz\_802.11n HT20\_Nss1,(MCS0)\_1TX

EBW

2412MHz

26/02/2024

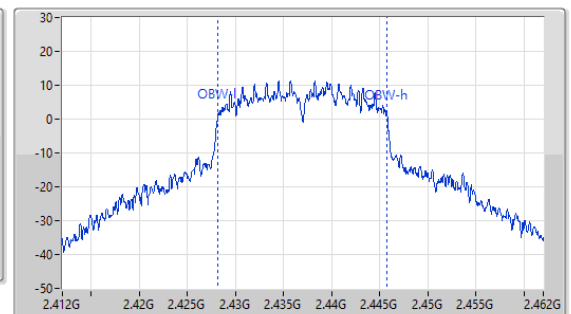
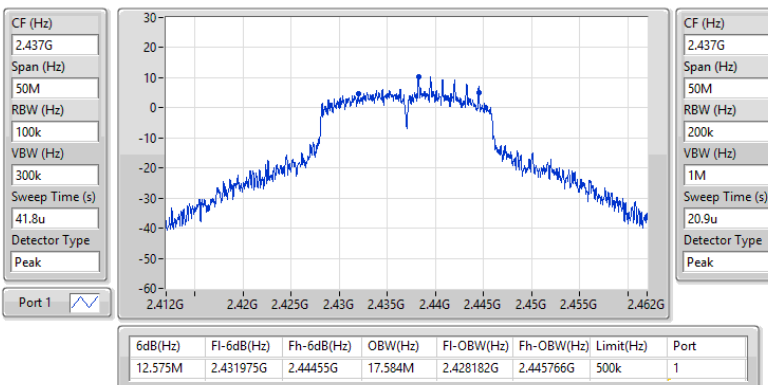


## 2.4-2.4835GHz\_802.11n HT20\_Nss1,(MCS0)\_1TX

EBW

2437MHz

26/02/2024

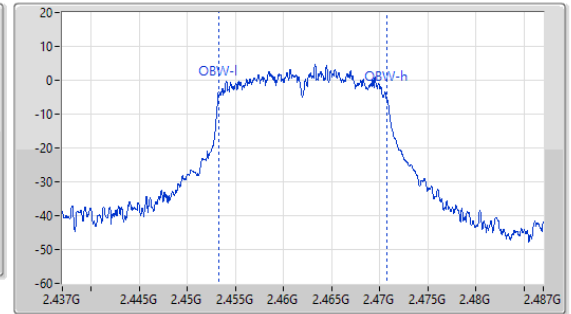
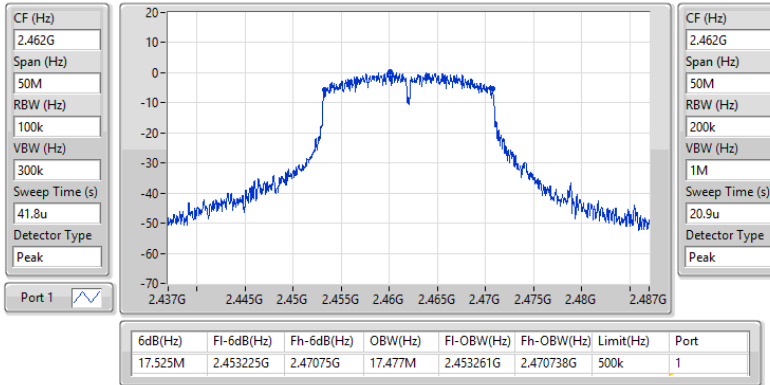


2.4-2.4835GHz\_802.11n HT20\_Nss1,(MCS0)\_1TX

EBW

2462MHz

26/02/2024





## Average Power

## Appendix B

### Summary

| Mode                         | Total Power<br>(dBm) | Total Power<br>(W) |
|------------------------------|----------------------|--------------------|
| 2.4-2.4835GHz                | -                    | -                  |
| 802.11b_Nss1,(1Mbps)_1TX     | 17.69                | 0.05875            |
| 802.11g_Nss1,(6Mbps)_1TX     | 19.90                | 0.09772            |
| 802.11n HT20_Nss1,(MCS0)_1TX | 19.76                | 0.09462            |



**Result**

| Mode                         | Result | DG<br>(dBi) | Port 1<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|------------------------------|--------|-------------|-----------------|----------------------|----------------------|
| 802.11b_Nss1,(1Mbps)_1TX     | -      | -           | -               | -                    | -                    |
| 2412MHz                      | Pass   | 2.55        | 17.69           | 17.69                | 30.00                |
| 2437MHz                      | Pass   | 2.55        | 15.37           | 15.37                | 30.00                |
| 2462MHz                      | Pass   | 2.55        | 15.61           | 15.61                | 30.00                |
| 802.11g_Nss1,(6Mbps)_1TX     | -      | -           | -               | -                    | -                    |
| 2412MHz                      | Pass   | 2.55        | 13.65           | 13.65                | 30.00                |
| 2417MHz                      | Pass   | 2.55        | 16.62           | 16.62                | 30.00                |
| 2437MHz                      | Pass   | 2.55        | 19.90           | 19.90                | 30.00                |
| 2457MHz                      | Pass   | 2.55        | 16.64           | 16.64                | 30.00                |
| 2462MHz                      | Pass   | 2.55        | 14.00           | 14.00                | 30.00                |
| 802.11n HT20_Nss1,(MCS0)_1TX | -      | -           | -               | -                    | -                    |
| 2412MHz                      | Pass   | 2.55        | 13.01           | 13.01                | 30.00                |
| 2417MHz                      | Pass   | 2.55        | 16.37           | 16.37                | 30.00                |
| 2437MHz                      | Pass   | 2.55        | 19.76           | 19.76                | 30.00                |
| 2457MHz                      | Pass   | 2.55        | 16.52           | 16.52                | 30.00                |
| 2462MHz                      | Pass   | 2.55        | 13.81           | 13.81                | 30.00                |

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

**Summary**

| Mode                         | PD<br>(dBm/RBW) |
|------------------------------|-----------------|
| 2.4-2.4835GHz                | -               |
| 802.11b_Nss1,(1Mbps)_1TX     | -5.13           |
| 802.11g_Nss1,(6Mbps)_1TX     | -6.57           |
| 802.11n HT20_Nss1,(MCS0)_1TX | -5.40           |

RBW = 3kHz;

## Result

| Mode                         | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|------------------------------|--------|-------------|---------------------|-----------------|-----------------------|
| 802.11b_Nss1,(1Mbps)_1TX     | -      | -           | -                   | -               | -                     |
| 2412MHz                      | Pass   | 2.55        | -5.13               | -5.13           | 8.00                  |
| 2437MHz                      | Pass   | 2.55        | -6.38               | -6.38           | 8.00                  |
| 2462MHz                      | Pass   | 2.55        | -5.72               | -5.72           | 8.00                  |
| 802.11g_Nss1,(6Mbps)_1TX     | -      | -           | -                   | -               | -                     |
| 2412MHz                      | Pass   | 2.55        | -11.68              | -11.68          | 8.00                  |
| 2437MHz                      | Pass   | 2.55        | -6.57               | -6.57           | 8.00                  |
| 2462MHz                      | Pass   | 2.55        | -11.91              | -11.91          | 8.00                  |
| 802.11n HT20_Nss1,(MCS0)_1TX | -      | -           | -                   | -               | -                     |
| 2412MHz                      | Pass   | 2.55        | -13.04              | -13.04          | 8.00                  |
| 2437MHz                      | Pass   | 2.55        | -5.40               | -5.40           | 8.00                  |
| 2462MHz                      | Pass   | 2.55        | -12.04              | -12.04          | 8.00                  |

DG = Directional Gain; RBW = 3kHz;

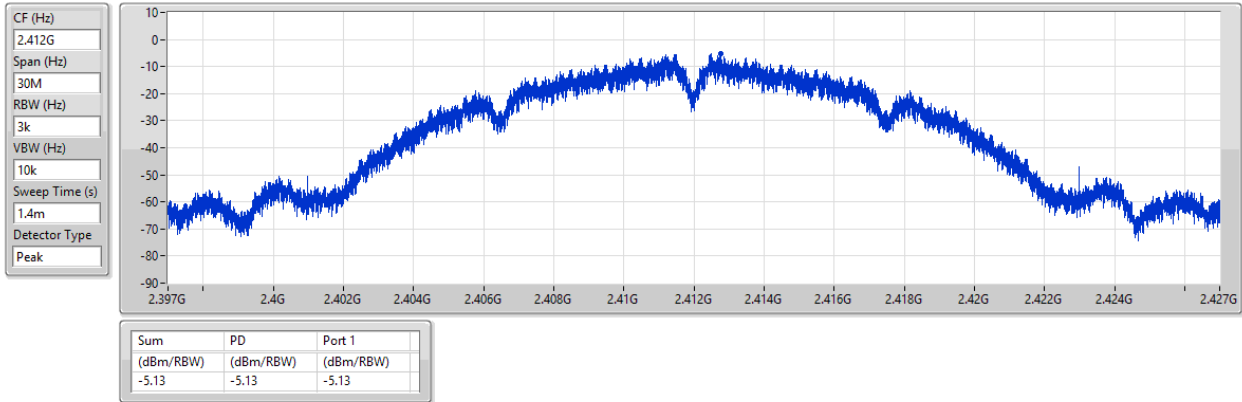
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

PSD

2412MHz

26/02/2024

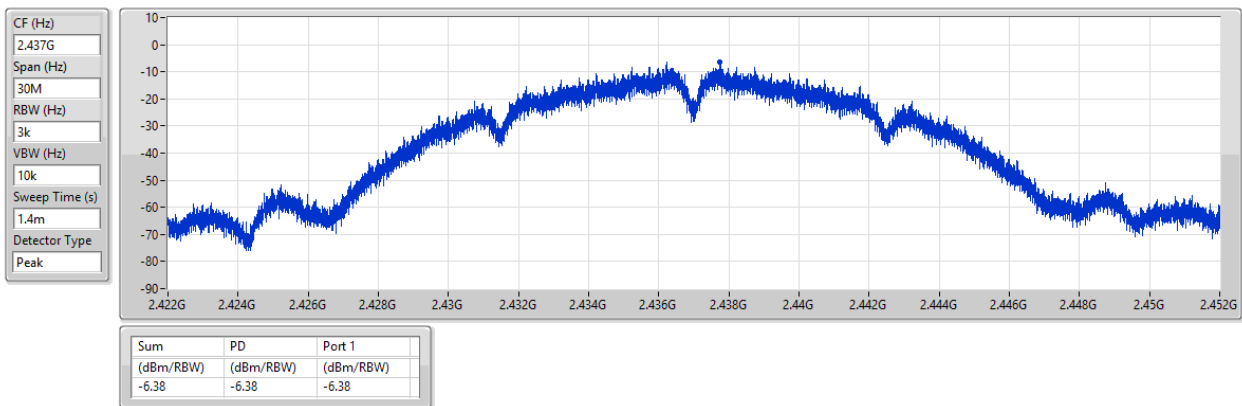


2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

PSD

2437MHz

07/03/2024

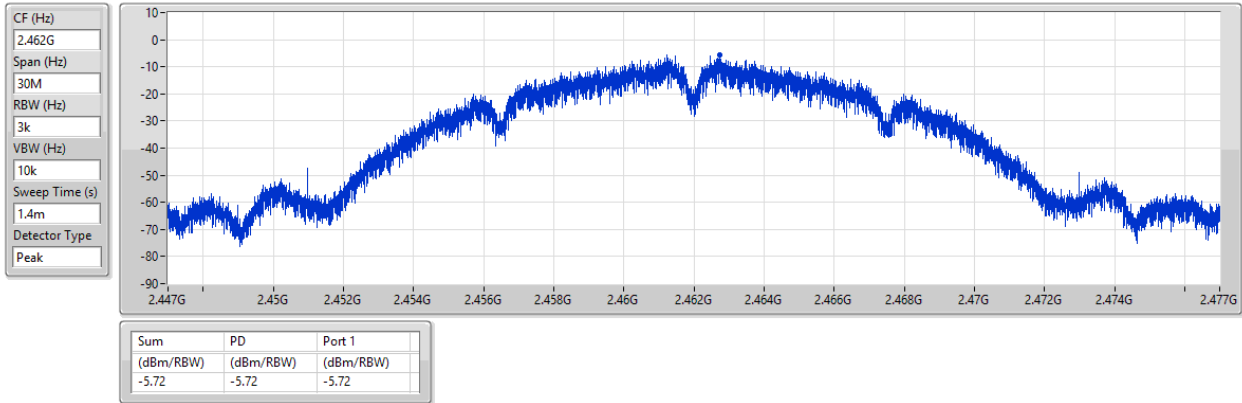


2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

PSD

2462MHz

26/02/2024

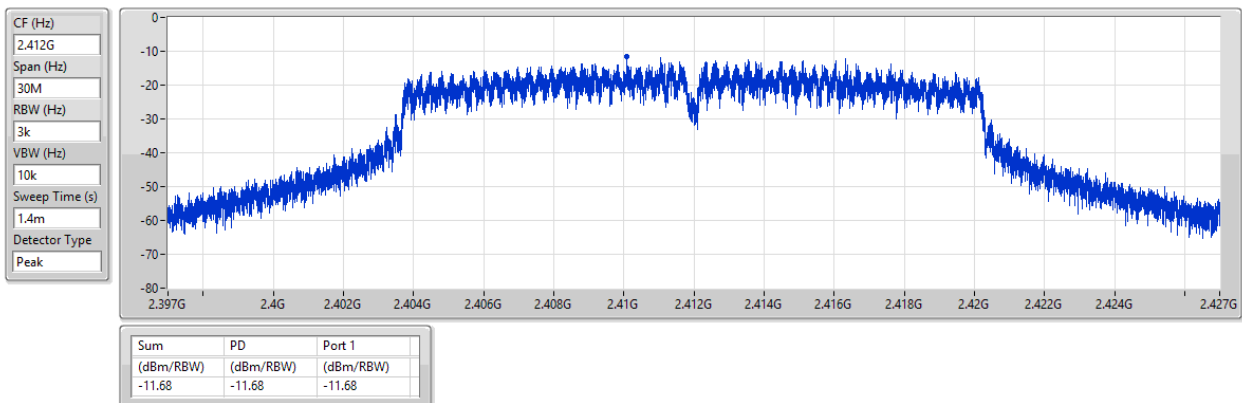


2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

PSD

2412MHz

07/03/2024

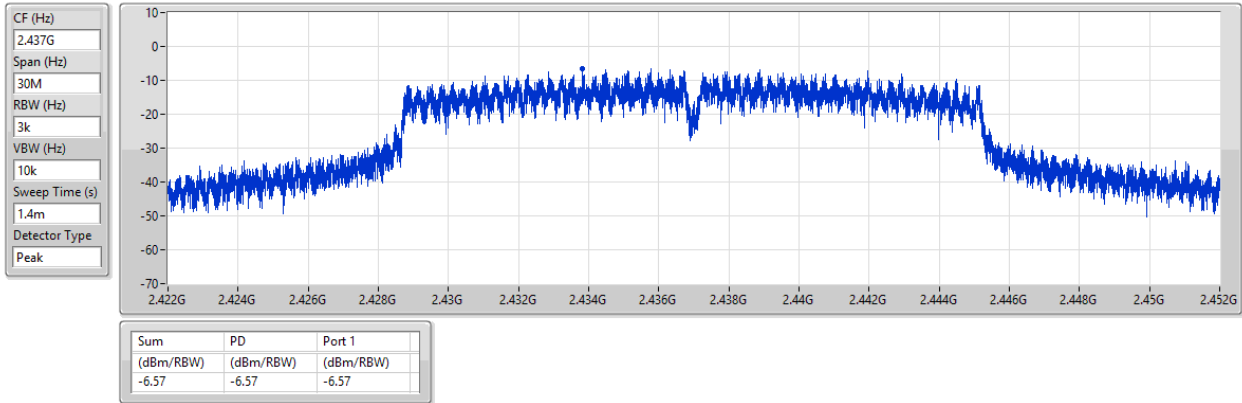


2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

PSD

2437MHz

07/03/2024

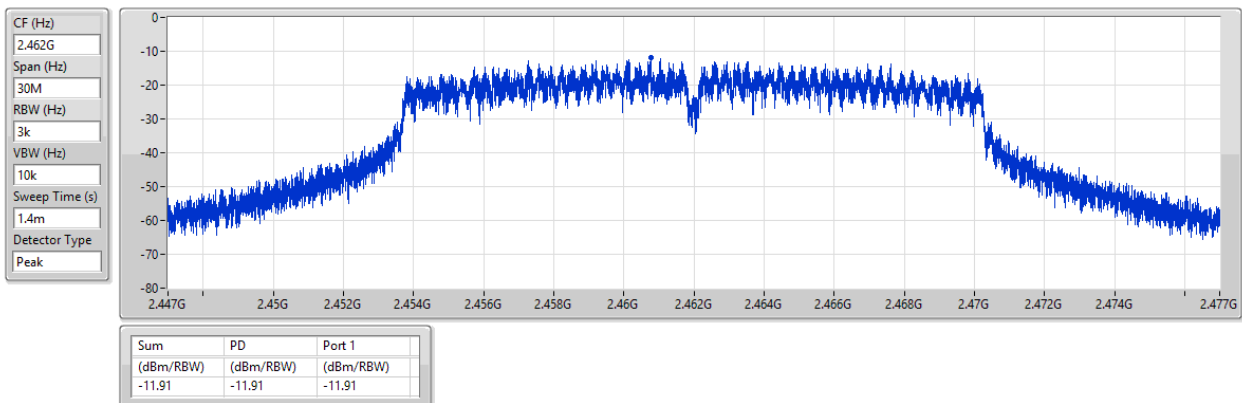


2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

PSD

2462MHz

07/03/2024

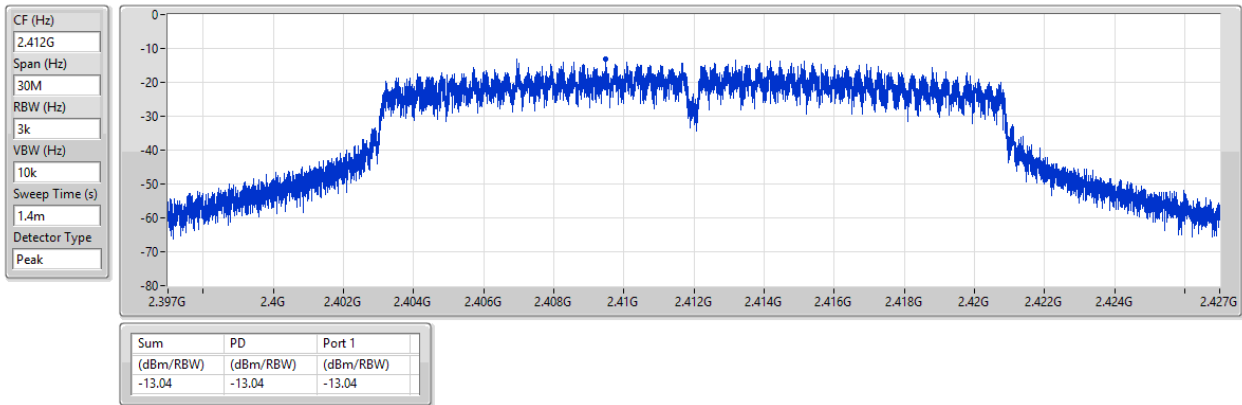


2.4-2.4835GHz\_802.11n HT20\_Nss1,(MCS0)\_1TX

PSD

2412MHz

07/03/2024

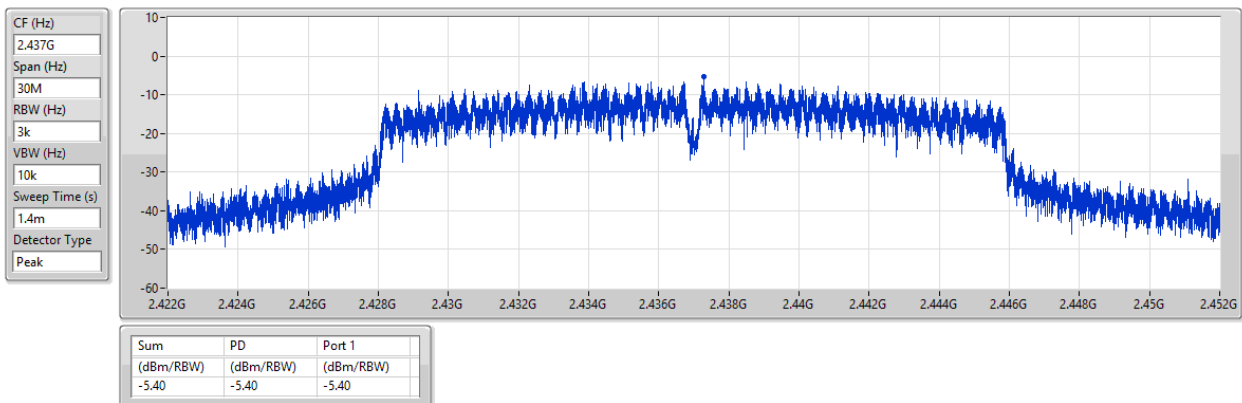


2.4-2.4835GHz\_802.11n HT20\_Nss1,(MCS0)\_1TX

PSD

2437MHz

07/03/2024

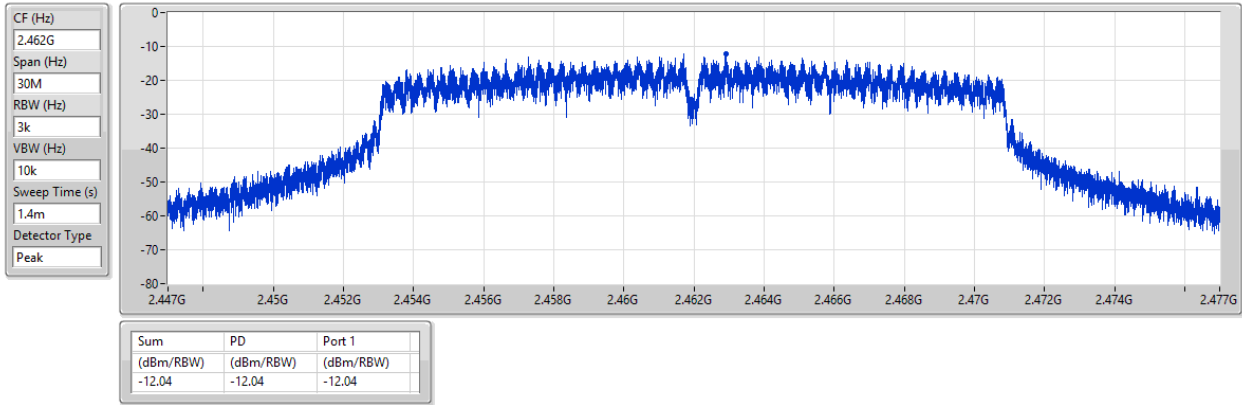


2.4-2.4835GHz\_802.11n HT20\_Nss1,(MCS0)\_1TX

PSD

2462MHz

07/03/2024





Summary

| Mode                         | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 2.4-2.4835GHz                | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 802.11b_Nss1,(1Mbps)_1TX     | Pass   | 2.41236G    | 10.46        | -19.54         | 2.00584G     | -54.44         | 2.4G         | -34.83         | 2.4G         | -35.35         | 2.5155G      | -51.21         | 7.23514G     | -39.04         | 1    |
| 802.11g_Nss1,(6Mbps)_1TX     | Pass   | 2.43824G    | 10.40        | -19.60         | 1.93128G     | -53.37         | 2.39984G     | -27.63         | 2.4G         | -28.17         | 2.50182G     | -51.77         | 7.23795G     | -45.98         | 1    |
| 802.11n HT20_Nss1,(MCS0)_1TX | Pass   | 2.43824G    | 10.21        | -19.79         | 2.17943G     | -54.51         | 2.39984G     | -29.12         | 2.4G         | -29.18         | 2.50998G     | -52.04         | 21.74653G    | -46.96         | 1    |

**Result**

| Mode                         | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 802.11b_Nss1.(1Mbps)_1TX     | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                      | Pass   | 2.41236G    | 10.46        | -19.54         | 2.00584G     | -54.44         | 2.4G         | -34.83         | 2.4G         | -35.35         | 2.5155G      | -51.21         | 7.23514G     | -39.04         | 1    |
| 2437MHz                      | Pass   | 2.41236G    | 10.46        | -19.54         | 34.66M       | -54.50         | 2.3992G      | -52.60         | 2.4G         | -54.67         | 2.50686G     | -51.49         | 21.74372G    | -48.18         | 1    |
| 2462MHz                      | Pass   | 2.41236G    | 10.46        | -19.54         | 1.82643G     | -54.00         | 2.39472G     | -52.79         | 2.4G         | -56.85         | 2.51246G     | -51.71         | 21.87858G    | -48.68         | 1    |
| 802.11g_Nss1.(6Mbps)_1TX     | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                      | Pass   | 2.43824G    | 10.40        | -19.60         | 1.93128G     | -53.37         | 2.39984G     | -27.63         | 2.4G         | -28.17         | 2.50182G     | -51.77         | 7.23795G     | -45.98         | 1    |
| 2437MHz                      | Pass   | 2.43824G    | 10.40        | -19.60         | 2.16079G     | -54.73         | 2.39928G     | -44.62         | 2.4G         | -46.14         | 2.50326G     | -50.23         | 21.85329G    | -48.34         | 1    |
| 2462MHz                      | Pass   | 2.43824G    | 10.40        | -19.60         | 2.17943G     | -54.05         | 2.39272G     | -51.33         | 2.4G         | -54.38         | 2.50054G     | -48.58         | 21.90948G    | -48.12         | 1    |
| 802.11n HT20_Nss1.(MCS0)_1TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                      | Pass   | 2.43824G    | 10.21        | -19.79         | 2.17943G     | -54.51         | 2.39984G     | -29.12         | 2.4G         | -29.18         | 2.50998G     | -52.04         | 21.74653G    | -46.96         | 1    |
| 2437MHz                      | Pass   | 2.43824G    | 10.21        | -19.79         | 2.17943G     | -53.63         | 2.39952G     | -42.94         | 2.4G         | -43.87         | 2.5095G      | -49.50         | 21.68191G    | -48.41         | 1    |
| 2462MHz                      | Pass   | 2.43824G    | 10.21        | -19.79         | 2.11885G     | -53.51         | 2.39136G     | -50.30         | 2.4G         | -54.62         | 2.50294G     | -48.01         | 21.40376G    | -48.30         | 1    |

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

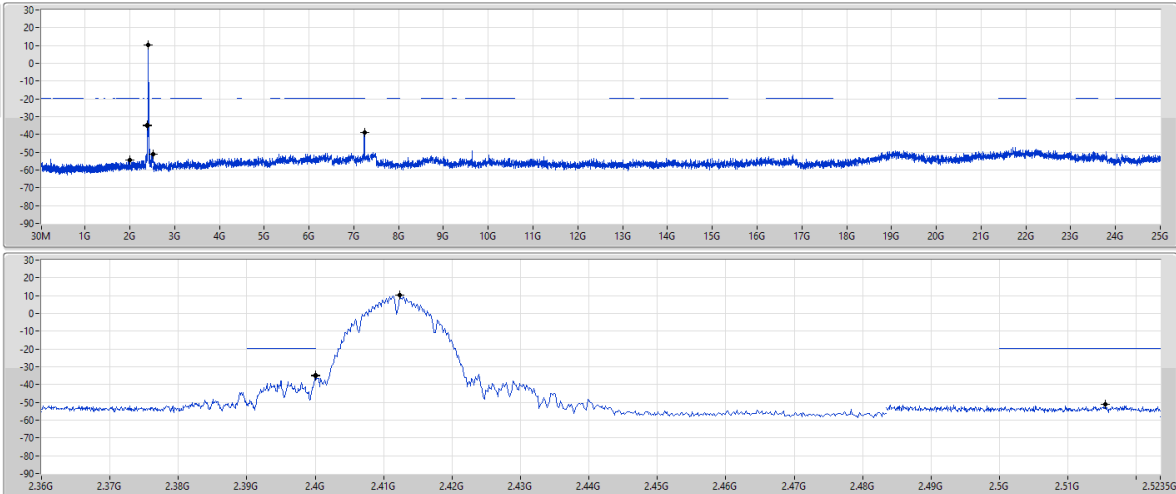
CSEndB

2412MHz

07/03/2024

RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

Port 1



| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|------|
| 2.41236G | 10.46    | -19.54     | 2.00584G | -54.44     | 2.4G     | -34.83     | 2.4G     | -35.35     | 2.5155G  | -51.21     | 7.23514G | -39.04     | 1    |

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

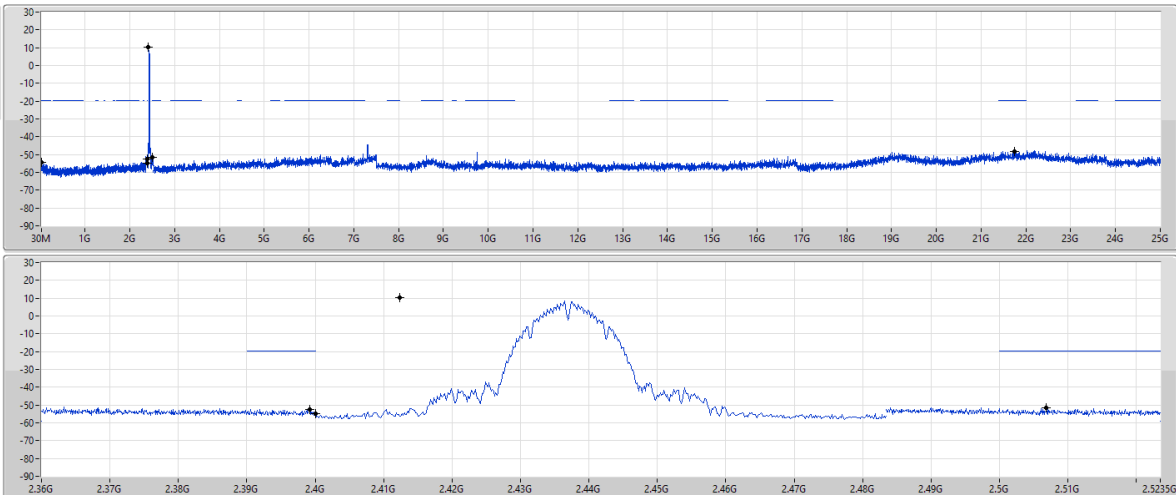
CSEndB

2437MHz

07/03/2024

RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

Port 1



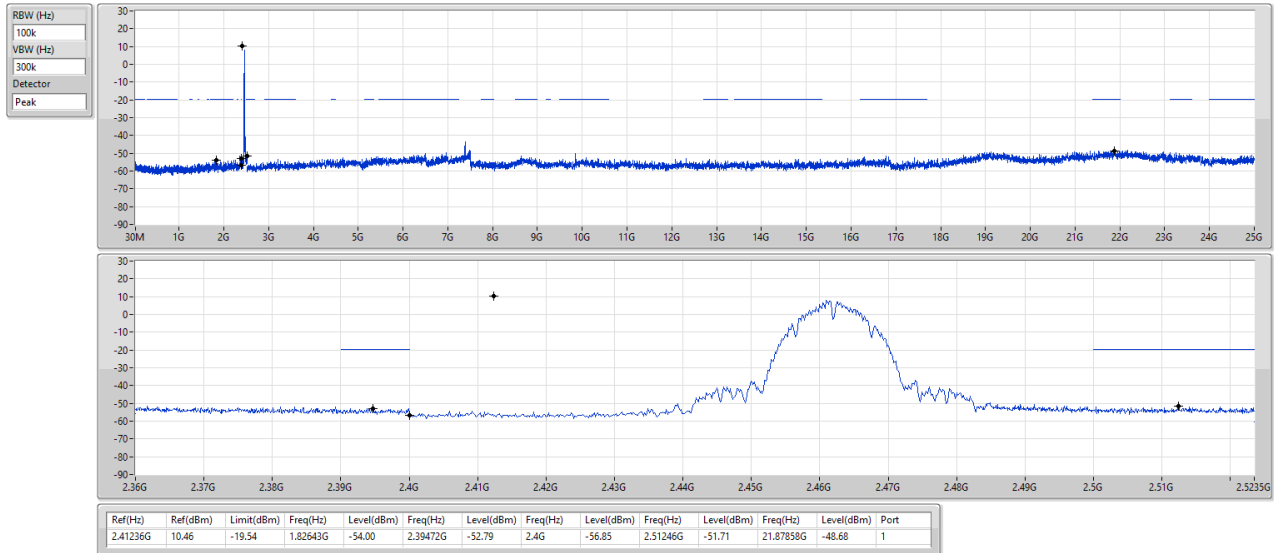
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.41236G | 10.46    | -19.54     | 34.66M   | -54.50     | 2.3992G  | -52.60     | 2.4G     | -54.67     | 2.5068G  | -51.49     | 21.74372G | -48.18     | 1    |

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

CSEndB

2462MHz

07/03/2024

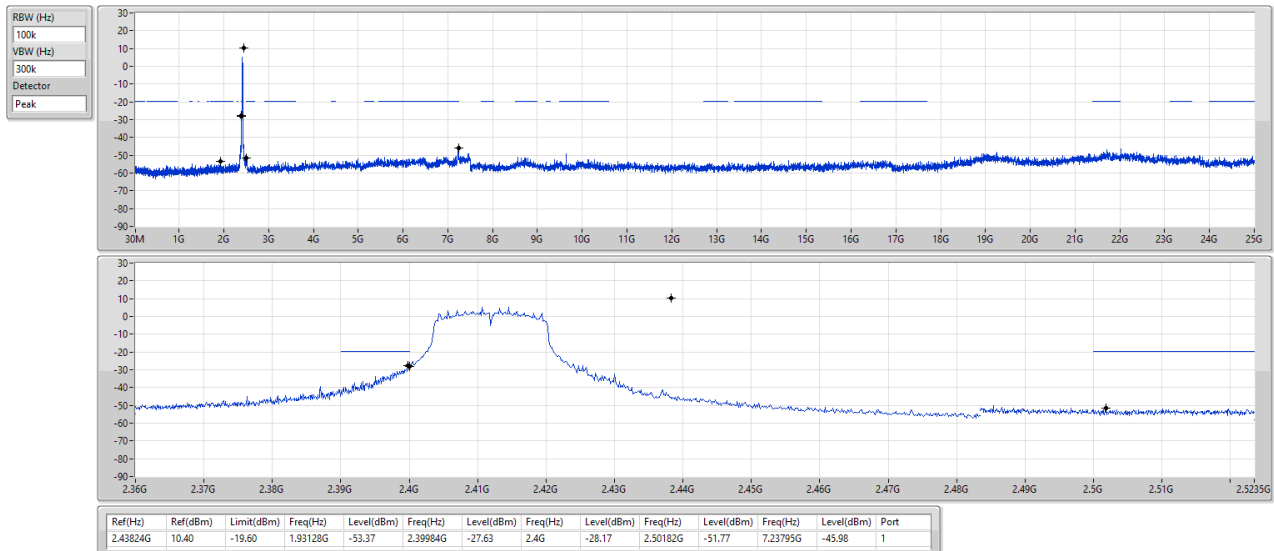


2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

CSEndB

2412MHz

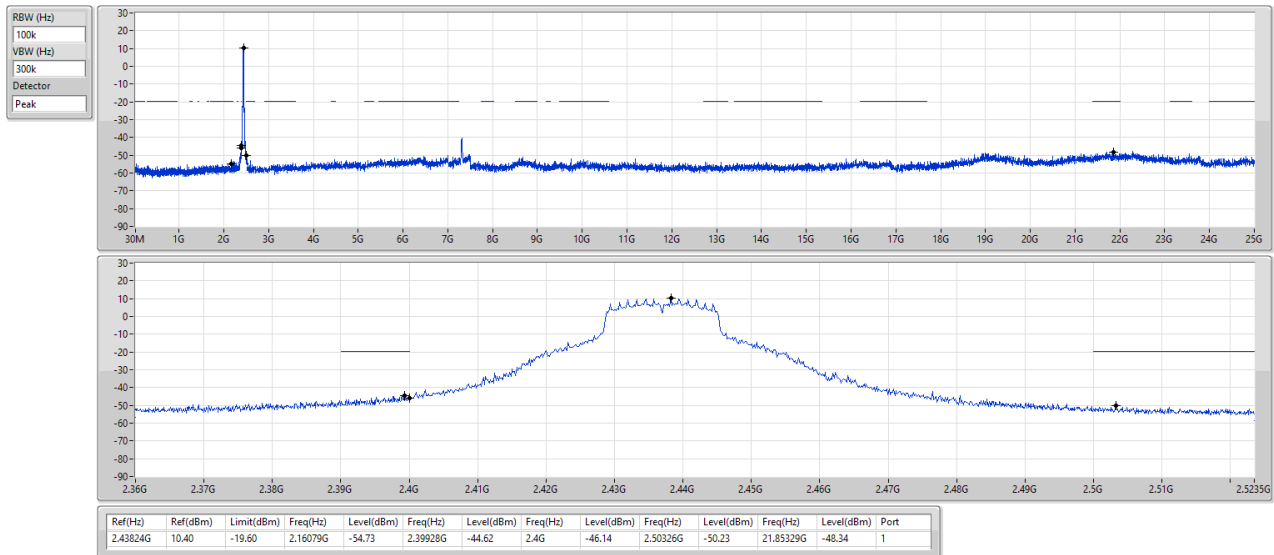
26/02/2024



2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

CSEndB

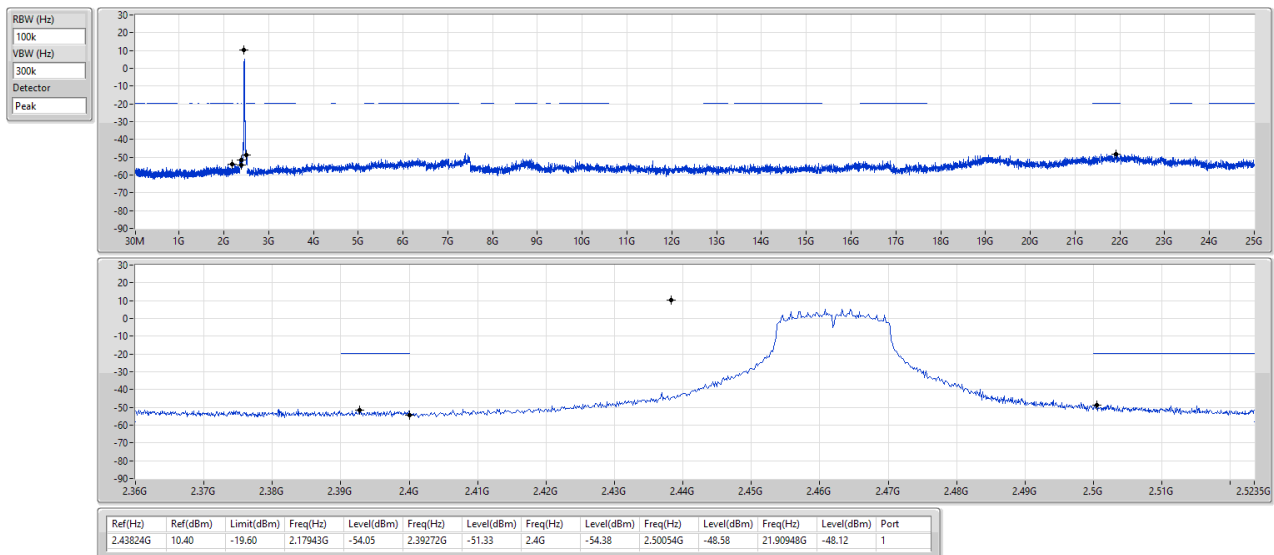
2437MHz



2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

CSEndB

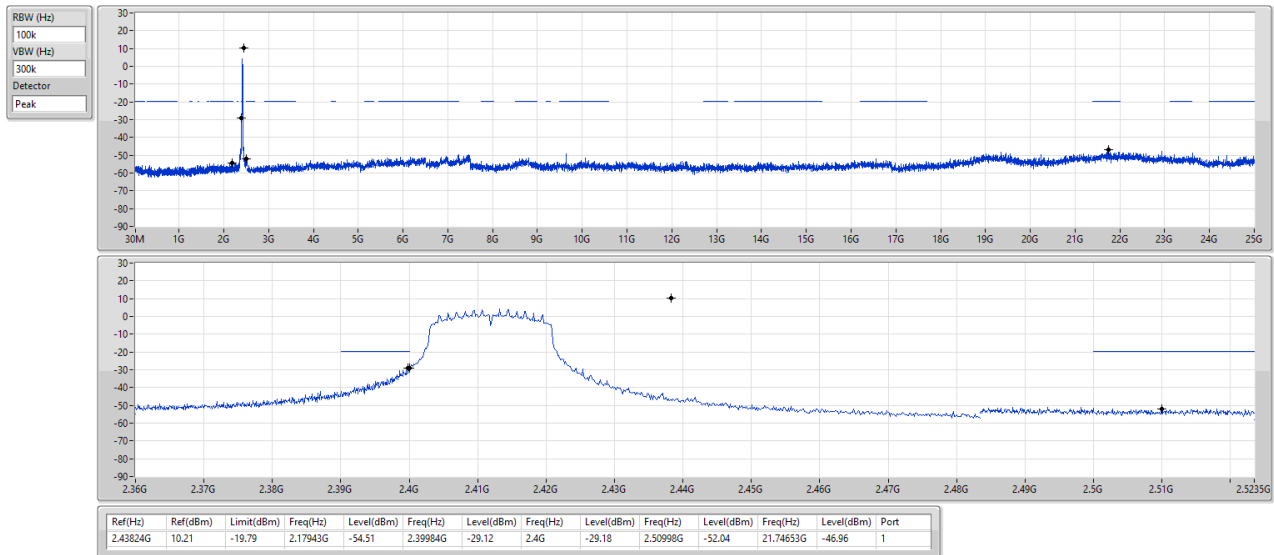
2462MHz



2.4-2.4835GHz\_802.11n HT20\_Nss1,(MCS0)\_1TX

CSEndB

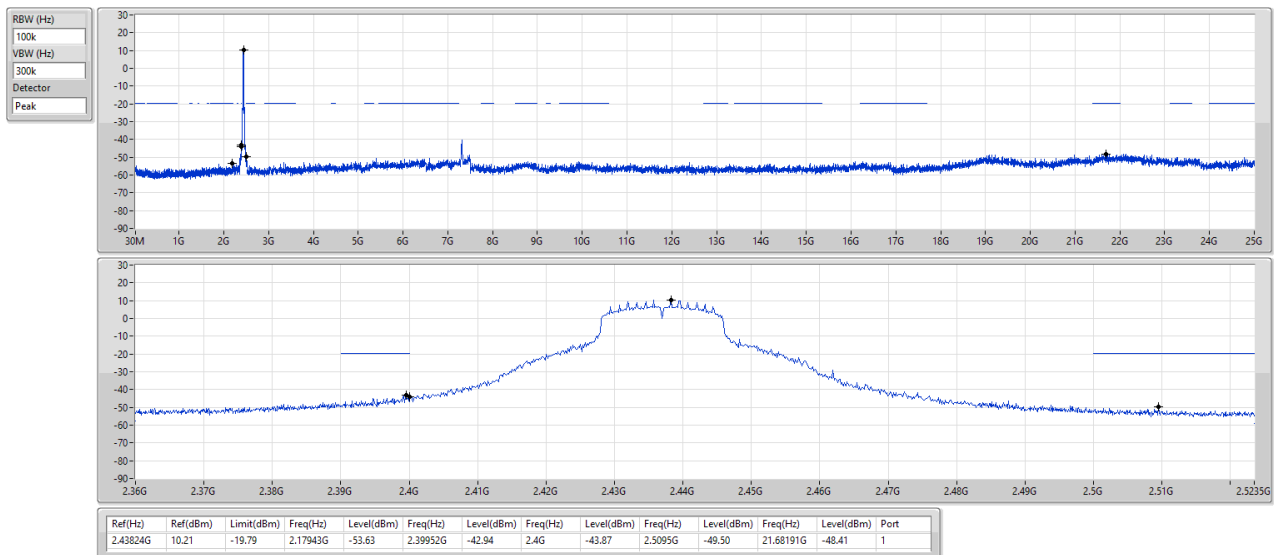
2412MHz



2.4-2.4835GHz\_802.11n HT20\_Nss1,(MCS0)\_1TX

CSEndB

2437MHz



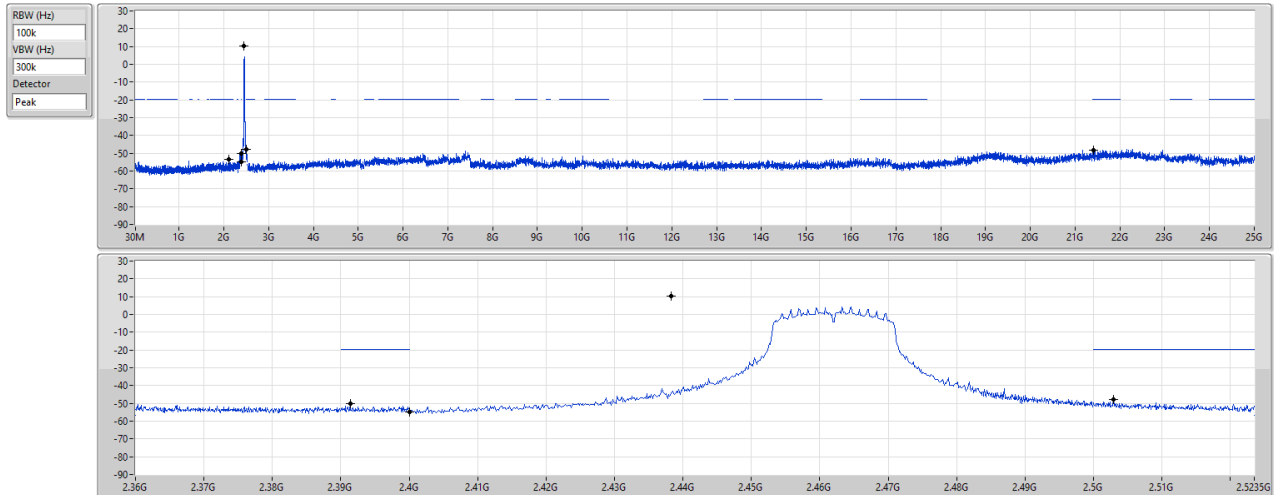
2.4-2.4835GHz\_802.11n\_HT20\_Nss1,(MCS0)\_1TX

CSEndB

2462MHz

26/02/2024

Port 1





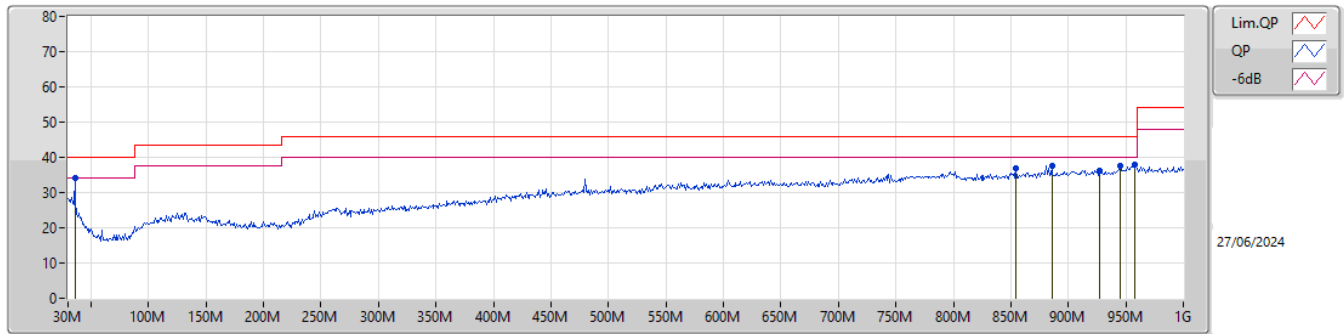
## ***Radiated Emissions below 1GHz***

## ***Appendix E.1***

### **Summary**

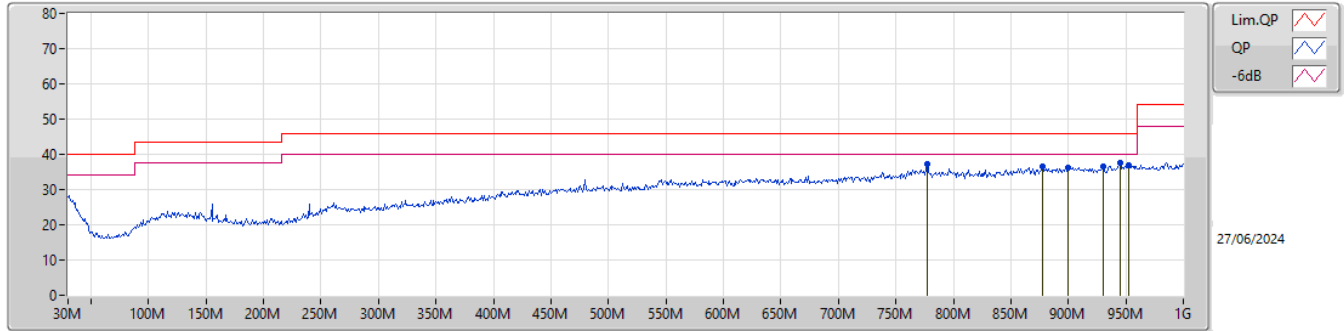
| Mode   | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Condition |
|--------|--------|------|--------------|-------------------|-------------------|----------------|-----------|
| Mode 1 | Pass   | PK   | 35.82M       | 34.09             | 40.00             | -5.91          | Vertical  |

### Mode 1



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB/m) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV/m) | AF<br>(dB/m) | CL<br>(dB) | PA<br>(dB) |  |  |
|------|--------------|-------------------|-------------------|----------------|------------------|-------------|-----------|----------------|---------------|---------|-----------------|--------------|------------|------------|--|--|
| PK   | 35.82M       | 34.09             | 40.00             | -5.91          | -9.13            | 3           | Vertical  | 18             | 1.50          | "Worst" | 43.22           | 21.27        | 1.10       | 31.50      |  |  |
| PK   | 854.5M       | 36.87             | 46.00             | -9.13          | -0.59            | 3           | Vertical  | 80             | 3.00          | -       | 37.46           | 26.10        | 5.63       | 32.32      |  |  |
| PK   | 885.54M      | 37.49             | 46.00             | -8.51          | -0.21            | 3           | Vertical  | 322            | 1.25          | -       | 37.70           | 26.37        | 5.77       | 32.35      |  |  |
| PK   | 927.25M      | 36.21             | 46.00             | -9.79          | 0.04             | 3           | Vertical  | 185            | 1.25          | -       | 36.17           | 26.45        | 5.92       | 32.33      |  |  |
| PK   | 944.71M      | 37.65             | 46.00             | -8.35          | 0.25             | 3           | Vertical  | 179            | 1.25          | -       | 37.40           | 26.59        | 5.97       | 32.31      |  |  |
| PK   | 958.29M      | 37.98             | 46.00             | -8.02          | 0.42             | 3           | Vertical  | 26             | 2.00          | -       | 37.56           | 26.72        | 6.01       | 32.31      |  |  |

### Mode 1



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB/m) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV/m) | AF<br>(dB/m) | CL<br>(dB) | PA<br>(dB) |  |  |
|------|--------------|-------------------|-------------------|----------------|------------------|-------------|------------|----------------|---------------|---------|-----------------|--------------|------------|------------|--|--|
| PK   | 776.9M       | 37.37             | 46.00             | -8.63          | -1.37            | 3           | Horizontal | 338            | 3.00          | -       | 38.74           | 25.64        | 5.34       | 32.35      |  |  |
| PK   | 877.78M      | 36.38             | 46.00             | -9.62          | -0.30            | 3           | Horizontal | 314            | 1.25          | -       | 36.68           | 26.30        | 5.74       | 32.34      |  |  |
| PK   | 900.09M      | 36.29             | 46.00             | -9.71          | -0.12            | 3           | Horizontal | 129            | 2.00          | -       | 36.41           | 26.41        | 5.84       | 32.37      |  |  |
| PK   | 930M         | 36.58             | 46.00             | -9.42          | 0.04             | 3           | Horizontal | 349            | 3.00          | -       | 36.54           | 26.45        | 5.92       | 32.33      |  |  |
| PK   | 944.71M      | 37.65             | 46.00             | -8.35          | 0.25             | 3           | Horizontal | 343            | 1.00          | "Worst" | 37.40           | 26.59        | 5.97       | 32.31      |  |  |
| PK   | 952.47M      | 36.85             | 46.00             | -9.15          | 0.32             | 3           | Horizontal | 310            | 3.00          | -       | 36.53           | 26.63        | 5.99       | 32.30      |  |  |

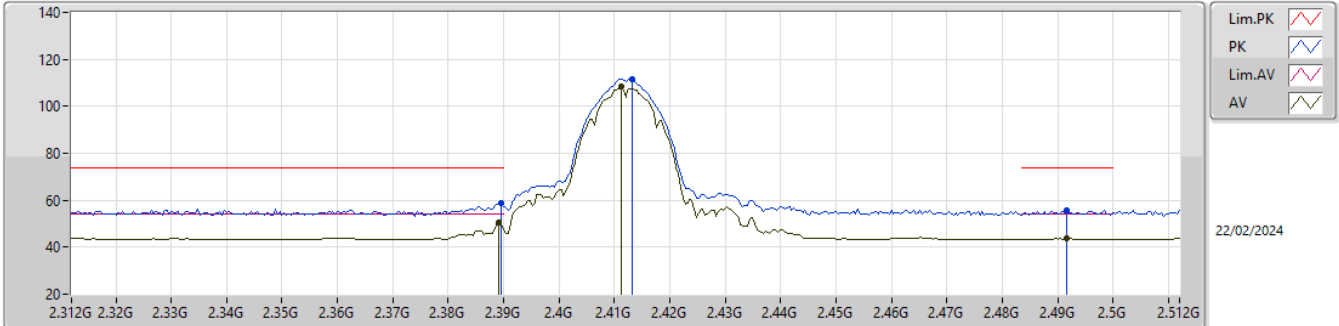


**Summary**

| Mode                     | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 2.4-2.4835GHz            | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 802.11g_Nss1,(6Mbps)_1TX | Pass   | AV   | 7.30932G     | 52.01             | 54.00             | -1.99          | 3           | Horizontal | 11             | 2.65          | -        |

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

2412MHz\_TX

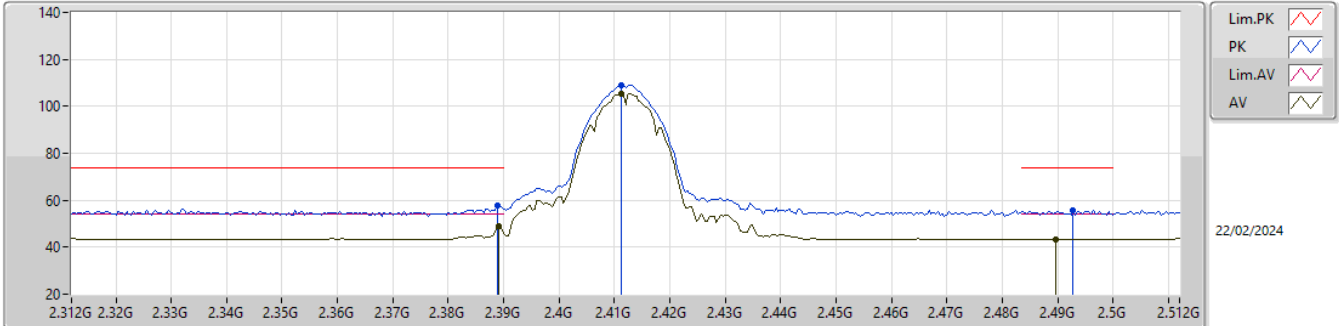


EUT\_X\_1TX  
Setting 18  
04-C-Y-1

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3896G      | 58.72             | 74.00             | -15.28         | 27.97         | 3           | Vertical  | 87             | 1.00          | -       | 27.40      | 3.35       | -          |  |  |  |
| AV   | 2.3892G      | 50.76             | 54.00             | -3.24          | 20.01         | 3           | Vertical  | 87             | 1.00          | -       | 27.40      | 3.35       | -          |  |  |  |
| PK   | 2.4132G      | 111.76            | Inf               | -Inf           | 80.90         | 3           | Vertical  | 87             | 1.00          | -       | 27.50      | 3.36       | -          |  |  |  |
| AV   | 2.4112G      | 108.42            | Inf               | -Inf           | 77.56         | 3           | Vertical  | 87             | 1.00          | -       | 27.50      | 3.36       | -          |  |  |  |
| PK   | 2.4916G      | 55.66             | 74.00             | -18.34         | 24.56         | 3           | Vertical  | 87             | 1.00          | -       | 27.70      | 3.40       | -          |  |  |  |
| AV   | 2.4916G      | 43.59             | 54.00             | -10.41         | 12.49         | 3           | Vertical  | 87             | 1.00          | -       | 27.70      | 3.40       | -          |  |  |  |

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

2412MHz\_TX

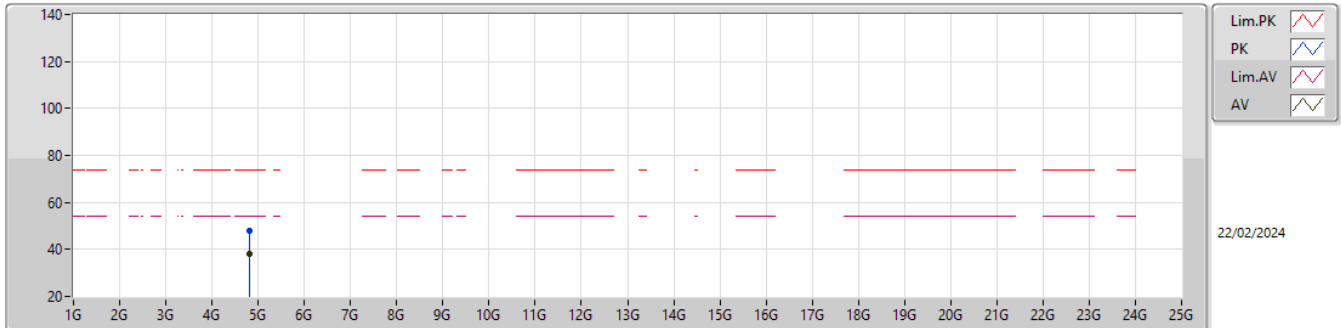


EUT\_X\_1TX  
Setting 18  
04-C-Y-1

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3888G      | 57.82             | 74.00             | -16.18         | 27.07         | 3           | Horizontal | 49             | 2.85          | -       | 27.40      | 3.35       | -          |  |  |  |
| AV   | 2.3892G      | 49.20             | 54.00             | -4.80          | 18.45         | 3           | Horizontal | 49             | 2.85          | -       | 27.40      | 3.35       | -          |  |  |  |
| PK   | 2.4112G      | 109.18            | Inf               | -Inf           | 78.32         | 3           | Horizontal | 49             | 2.85          | -       | 27.50      | 3.36       | -          |  |  |  |
| AV   | 2.4112G      | 105.55            | Inf               | -Inf           | 74.69         | 3           | Horizontal | 49             | 2.85          | -       | 27.50      | 3.36       | -          |  |  |  |
| PK   | 2.4928G      | 55.56             | 74.00             | -18.44         | 24.46         | 3           | Horizontal | 49             | 2.85          | -       | 27.70      | 3.40       | -          |  |  |  |
| AV   | 2.4896G      | 43.45             | 54.00             | -10.55         | 12.35         | 3           | Horizontal | 49             | 2.85          | -       | 27.70      | 3.40       | -          |  |  |  |

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

2412MHz\_TX

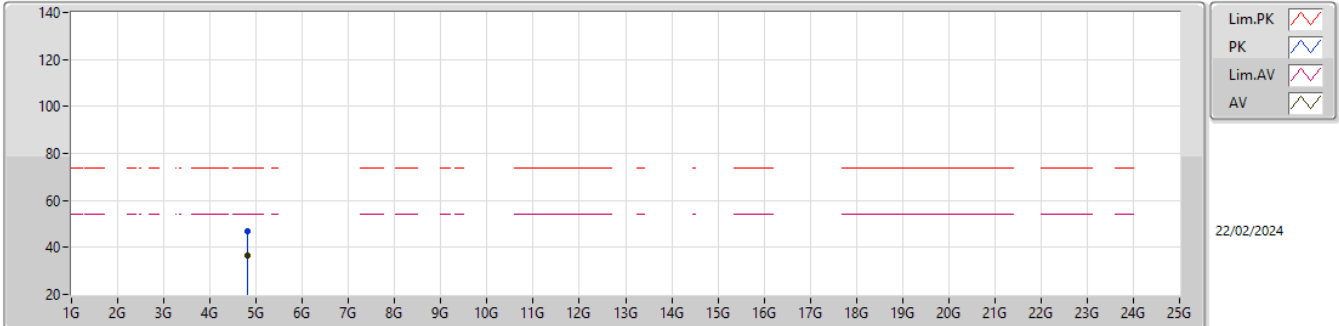


EUT\_X\_1TX  
Setting 18  
04-C-Y-1

| Type | Freq     | Level    | Limit    | Margin | Raw    | Dist | Condition | Azimuth | Height | Comment | AF    | CL   | PA    |  |  |  |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|---------|-------|------|-------|--|--|--|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dBuV) | (m)  |           | (°)     | (m)    |         | (dB)  | (dB) | (dB)  |  |  |  |
| PK   | 4.82412G | 47.98    | 74.00    | -26.02 | 43.23  | 3    | Vertical  | 97      | 1.66   | -       | 32.35 | 5.67 | 33.27 |  |  |  |
| AV   | 4.82401G | 37.94    | 54.00    | -16.06 | 33.19  | 3    | Vertical  | 97      | 1.66   | -       | 32.35 | 5.67 | 33.27 |  |  |  |

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

2412MHz\_TX

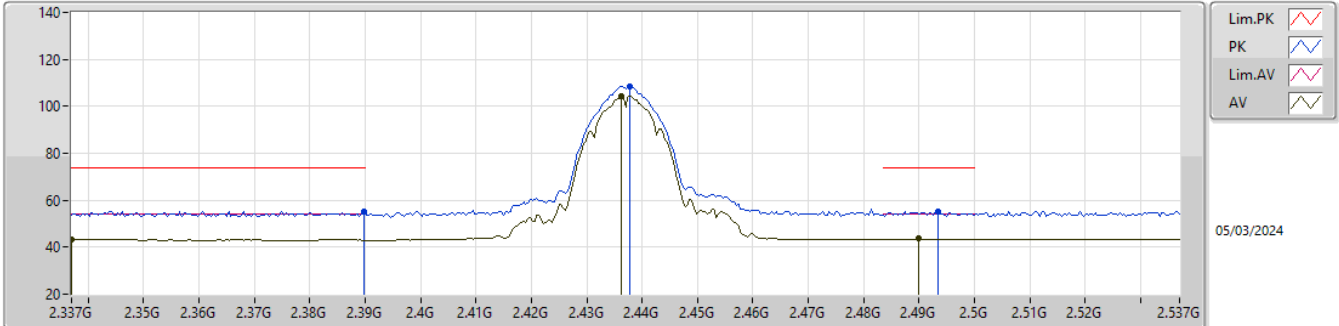


EUT\_X\_1TX  
Setting 18  
04-C-Y-1

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 4.82391G     | 46.76             | 74.00             | -27.24         | 42.01         | 3           | Horizontal | 174            | 2.84          | -       | 32.35      | 5.67       | 33.27      |  |  |  |
| AV   | 4.824G       | 36.63             | 54.00             | -17.37         | 31.88         | 3           | Horizontal | 174            | 2.84          | -       | 32.35      | 5.67       | 33.27      |  |  |  |

## 2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

### 2437MHz\_TX

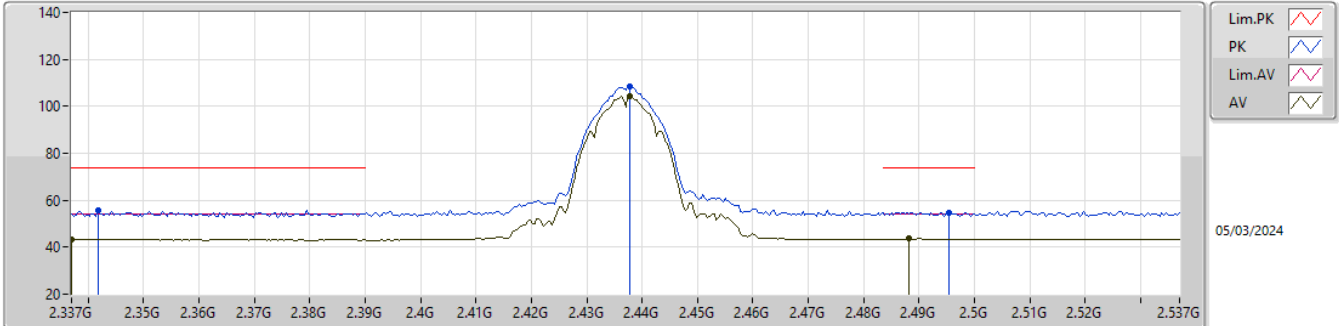


EUT\_X\_1TX  
Setting 16  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3898G      | 55.40             | 74.00             | -18.60         | 24.65         | 3           | Vertical  | 97             | 1.40          | -       | 27.40      | 3.35       | -          |  |  |  |
| AV   | 2.337G       | 43.21             | 54.00             | -10.79         | 12.46         | 3           | Vertical  | 97             | 1.40          | -       | 27.43      | 3.32       | -          |  |  |  |
| PK   | 2.4378G      | 108.65            | Inf               | -Inf           | 77.70         | 3           | Vertical  | 97             | 1.40          | -       | 27.58      | 3.37       | -          |  |  |  |
| AV   | 2.4362G      | 104.13            | Inf               | -Inf           | 73.20         | 3           | Vertical  | 97             | 1.40          | -       | 27.56      | 3.37       | -          |  |  |  |
| PK   | 2.4934G      | 55.22             | 74.00             | -18.78         | 24.12         | 3           | Vertical  | 97             | 1.40          | -       | 27.70      | 3.40       | -          |  |  |  |
| AV   | 2.4898G      | 43.56             | 54.00             | -10.44         | 12.46         | 3           | Vertical  | 97             | 1.40          | -       | 27.70      | 3.40       | -          |  |  |  |

## 2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

### 2437MHz\_TX

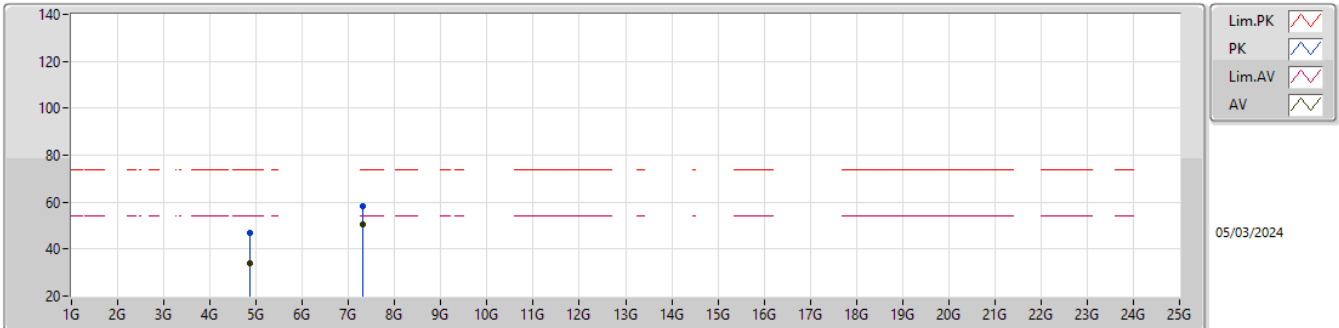


EUT\_X\_1TX  
Setting 16  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3418G      | 55.62             | 74.00             | -18.38         | 24.89         | 3           | Horizontal | 44             | 1.47          | -       | 27.40      | 3.33       | -          |  |  |  |
| AV   | 2.337G       | 43.23             | 54.00             | -10.77         | 12.48         | 3           | Horizontal | 44             | 1.47          | -       | 27.43      | 3.32       | -          |  |  |  |
| PK   | 2.4378G      | 108.42            | Inf               | -Inf           | 77.47         | 3           | Horizontal | 44             | 1.47          | -       | 27.58      | 3.37       | -          |  |  |  |
| AV   | 2.4378G      | 104.25            | Inf               | -Inf           | 73.30         | 3           | Horizontal | 44             | 1.47          | -       | 27.58      | 3.37       | -          |  |  |  |
| PK   | 2.4954G      | 54.91             | 74.00             | -19.09         | 23.81         | 3           | Horizontal | 44             | 1.47          | -       | 27.70      | 3.40       | -          |  |  |  |
| AV   | 2.4882G      | 43.64             | 54.00             | -10.36         | 12.56         | 3           | Horizontal | 44             | 1.47          | -       | 27.68      | 3.40       | -          |  |  |  |

## 2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

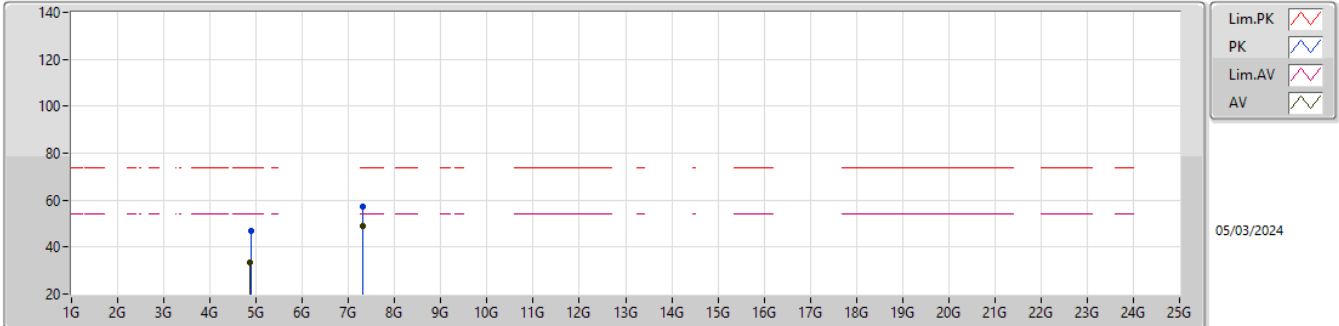
## 2437MHz\_TX


EUT\_X\_1TX  
Setting 16  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|--|
| PK   | 4.8739G      | 46.66             | 74.00             | -27.34         | 41.70         | 3           | Vertical  | 96             | 1.65          | -       | 32.50      | 5.72       | 33.26      |  |  |  |  |
| AV   | 4.87394G     | 34.03             | 54.00             | -19.97         | 29.07         | 3           | Vertical  | 96             | 1.65          | -       | 32.50      | 5.72       | 33.26      |  |  |  |  |
| PK   | 7.3094G      | 58.14             | 74.00             | -15.86         | 47.91         | 3           | Vertical  | 173            | 2.24          | -       | 37.20      | 7.12       | 34.09      |  |  |  |  |
| AV   | 7.31168G     | 50.72             | 54.00             | -3.28          | 40.49         | 3           | Vertical  | 173            | 2.24          | -       | 37.20      | 7.12       | 34.09      |  |  |  |  |

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

2437MHz\_TX

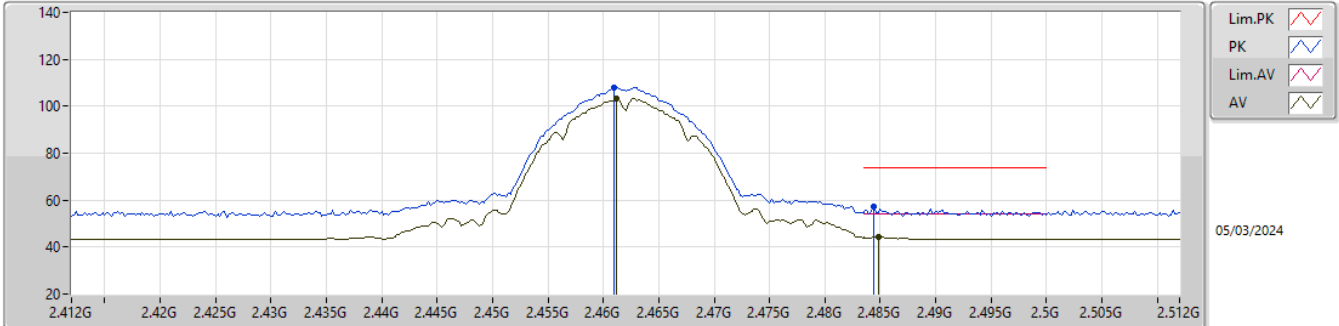


EUT\_X\_1TX  
Setting 16  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|--|
| PK   | 4.87964G     | 46.98             | 74.00             | -27.02         | 41.99         | 3           | Horizontal | 335            | 2.44          | -       | 32.52      | 5.72       | 33.25      |  |  |  |  |
| AV   | 4.874G       | 33.38             | 54.00             | -20.62         | 28.42         | 3           | Horizontal | 335            | 2.44          | -       | 32.50      | 5.72       | 33.26      |  |  |  |  |
| PK   | 7.3118G      | 57.24             | 74.00             | -16.76         | 47.01         | 3           | Horizontal | 18             | 2.65          | -       | 37.20      | 7.12       | 34.09      |  |  |  |  |
| AV   | 7.31168G     | 49.16             | 54.00             | -4.84          | 38.93         | 3           | Horizontal | 18             | 2.65          | -       | 37.20      | 7.12       | 34.09      |  |  |  |  |

## 2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

### 2462MHz\_TX

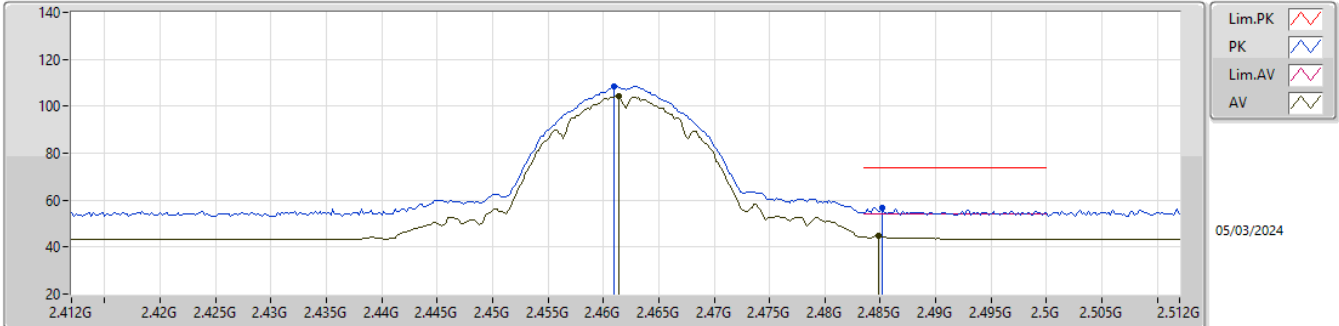


EUT\_X\_1TX  
Setting 16  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|--|
| PK   | 2.461G       | 107.81            | Inf               | -Inf           | 76.83         | 3           | Vertical  | 107            | 1.62          | -       | 27.60      | 3.38       | -          |  |  |  |  |
| AV   | 2.4612G      | 103.35            | Inf               | -Inf           | 72.37         | 3           | Vertical  | 107            | 1.62          | -       | 27.60      | 3.38       | -          |  |  |  |  |
| PK   | 2.4844G      | 57.18             | 74.00             | -16.82         | 26.14         | 3           | Vertical  | 107            | 1.62          | -       | 27.64      | 3.40       | -          |  |  |  |  |
| AV   | 2.4848G      | 44.53             | 54.00             | -9.47          | 13.48         | 3           | Vertical  | 107            | 1.62          | -       | 27.65      | 3.40       | -          |  |  |  |  |

## 2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

### 2462MHz\_TX

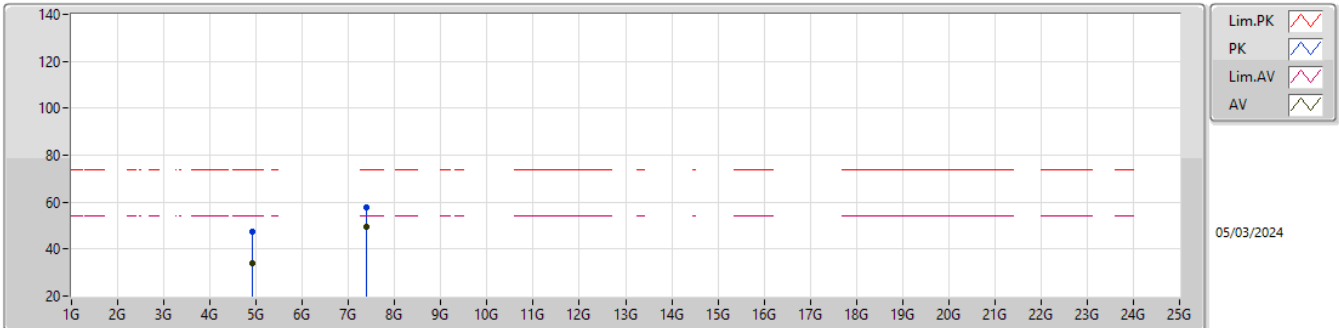


EUT\_X\_1TX  
Setting 16  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|--|
| PK   | 2.461G       | 108.36            | Inf               | -Inf           | 77.38         | 3           | Horizontal | 41             | 2.42          | -       | 27.60      | 3.38       | -          |  |  |  |  |
| AV   | 2.4614G      | 104.23            | Inf               | -Inf           | 73.25         | 3           | Horizontal | 41             | 2.42          | -       | 27.60      | 3.38       | -          |  |  |  |  |
| PK   | 2.4852G      | 56.67             | 74.00             | -17.33         | 25.62         | 3           | Horizontal | 41             | 2.42          | -       | 27.65      | 3.40       | -          |  |  |  |  |
| AV   | 2.4848G      | 45.01             | 54.00             | -8.99          | 13.96         | 3           | Horizontal | 41             | 2.42          | -       | 27.65      | 3.40       | -          |  |  |  |  |

## 2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

### 2462MHz\_TX

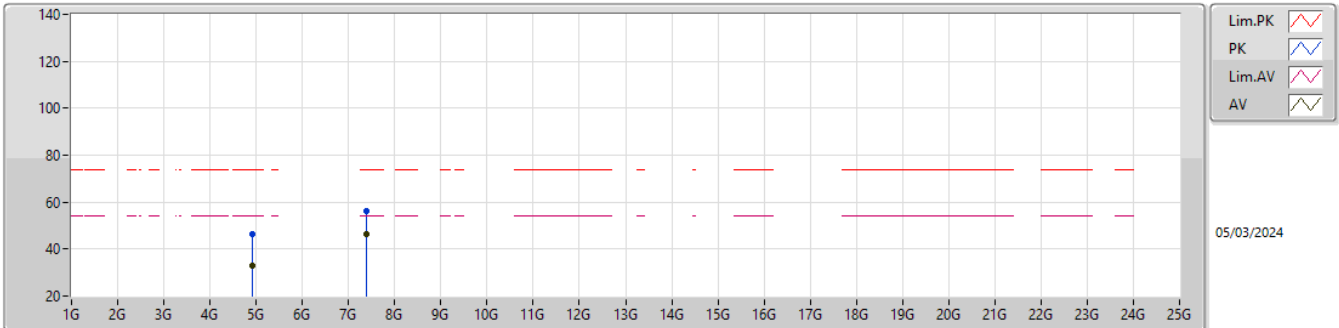


EUT\_X\_1TX  
Setting 16  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 4.92082G     | 47.16             | 74.00             | -26.84         | 42.00         | 3           | Vertical  | 92             | 1.93          | -       | 32.64      | 5.76       | 33.24      |  |  |  |
| AV   | 4.92394G     | 33.84             | 54.00             | -20.16         | 28.67         | 3           | Vertical  | 92             | 1.93          | -       | 32.65      | 5.76       | 33.24      |  |  |  |
| PK   | 7.38696G     | 57.84             | 74.00             | -16.16         | 47.60         | 3           | Vertical  | 174            | 1.80          | -       | 37.20      | 7.16       | 34.12      |  |  |  |
| AV   | 7.38666G     | 49.56             | 54.00             | -4.44          | 39.32         | 3           | Vertical  | 174            | 1.80          | -       | 37.20      | 7.16       | 34.12      |  |  |  |

## 2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_1TX

### 2462MHz\_TX

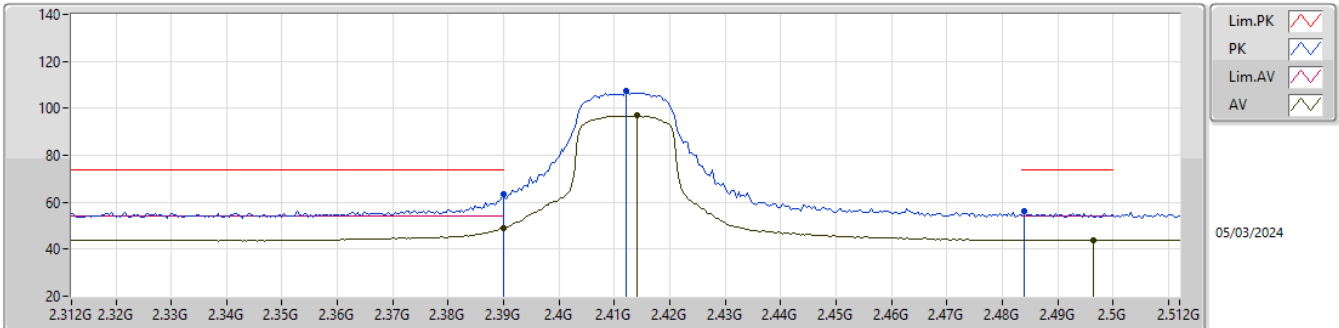


EUT\_X\_1TX  
Setting 16  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|--|
| PK   | 4.92542G     | 46.22             | 74.00             | -27.78         | 41.05         | 3           | Horizontal | 331            | 2.13          | -       | 32.65      | 5.76       | 33.24      |  |  |  |  |
| AV   | 4.9239G      | 33.08             | 54.00             | -20.92         | 27.91         | 3           | Horizontal | 331            | 2.13          | -       | 32.65      | 5.76       | 33.24      |  |  |  |  |
| PK   | 7.38552G     | 56.44             | 74.00             | -17.56         | 46.20         | 3           | Horizontal | 215            | 1.00          | -       | 37.20      | 7.16       | 34.12      |  |  |  |  |
| AV   | 7.38674G     | 46.15             | 54.00             | -7.85          | 35.91         | 3           | Horizontal | 215            | 1.00          | -       | 37.20      | 7.16       | 34.12      |  |  |  |  |

## 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

### 2412MHz\_TX

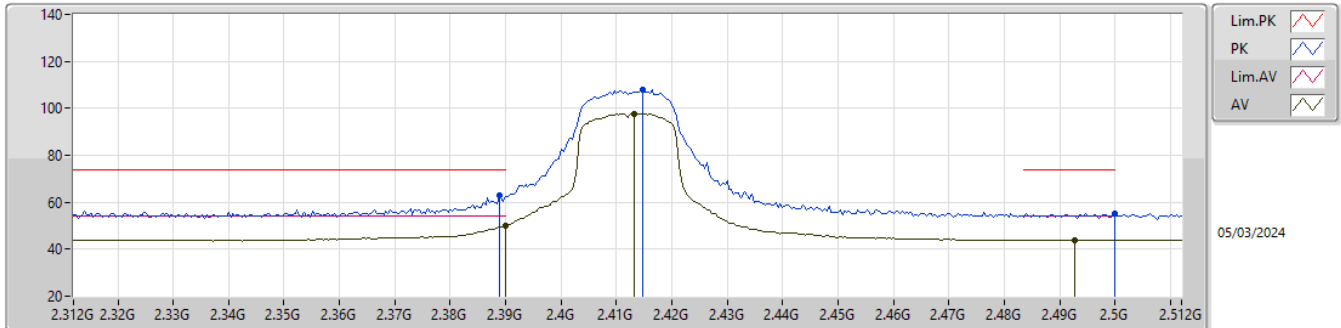


EUT\_X\_1TX  
Setting 14  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.39G        | 63.42             | 74.00             | -10.58         | 32.67         | 3           | Vertical  | 106            | 1.57          | -       | 27.40      | 3.35       | -          |  |  |  |
| AV   | 2.39G        | 48.98             | 54.00             | -5.02          | 18.23         | 3           | Vertical  | 106            | 1.57          | -       | 27.40      | 3.35       | -          |  |  |  |
| PK   | 2.412G       | 107.50            | Inf               | -Inf           | 76.64         | 3           | Vertical  | 106            | 1.57          | -       | 27.50      | 3.36       | -          |  |  |  |
| AV   | 2.414G       | 96.86             | Inf               | -Inf           | 66.00         | 3           | Vertical  | 106            | 1.57          | -       | 27.50      | 3.36       | -          |  |  |  |
| PK   | 2.484G       | 56.22             | 74.00             | -17.78         | 25.18         | 3           | Vertical  | 106            | 1.57          | -       | 27.64      | 3.40       | -          |  |  |  |
| AV   | 2.4964G      | 43.94             | 54.00             | -10.06         | 12.84         | 3           | Vertical  | 106            | 1.57          | -       | 27.70      | 3.40       | -          |  |  |  |

## 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

### 2412MHz\_TX

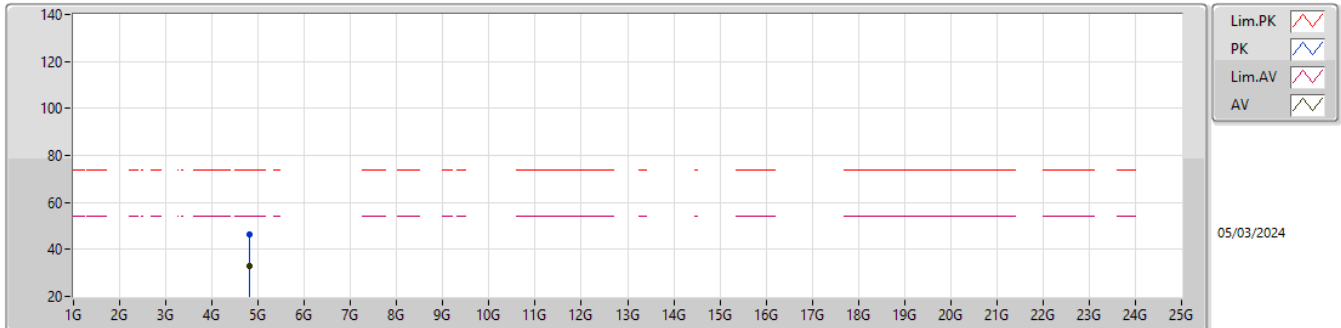


EUT\_X\_1TX  
Setting 14  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3888G      | 63.08             | 74.00             | -10.92         | 32.33         | 3           | Horizontal | 41             | 1.73          | -       | 27.40      | 3.35       | -          |  |  |  |
| AV   | 2.39G        | 49.97             | 54.00             | -4.03          | 19.22         | 3           | Horizontal | 41             | 1.73          | -       | 27.40      | 3.35       | -          |  |  |  |
| PK   | 2.4148G      | 108.01            | Inf               | -Inf           | 77.15         | 3           | Horizontal | 41             | 1.73          | -       | 27.50      | 3.36       | -          |  |  |  |
| AV   | 2.4132G      | 97.80             | Inf               | -Inf           | 66.94         | 3           | Horizontal | 41             | 1.73          | -       | 27.50      | 3.36       | -          |  |  |  |
| PK   | 2.5G         | 55.24             | 74.00             | -18.76         | 24.13         | 3           | Horizontal | 41             | 1.73          | -       | 27.70      | 3.41       | -          |  |  |  |
| AV   | 2.4928G      | 44.02             | 54.00             | -9.98          | 12.92         | 3           | Horizontal | 41             | 1.73          | -       | 27.70      | 3.40       | -          |  |  |  |

2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

2412MHz\_TX

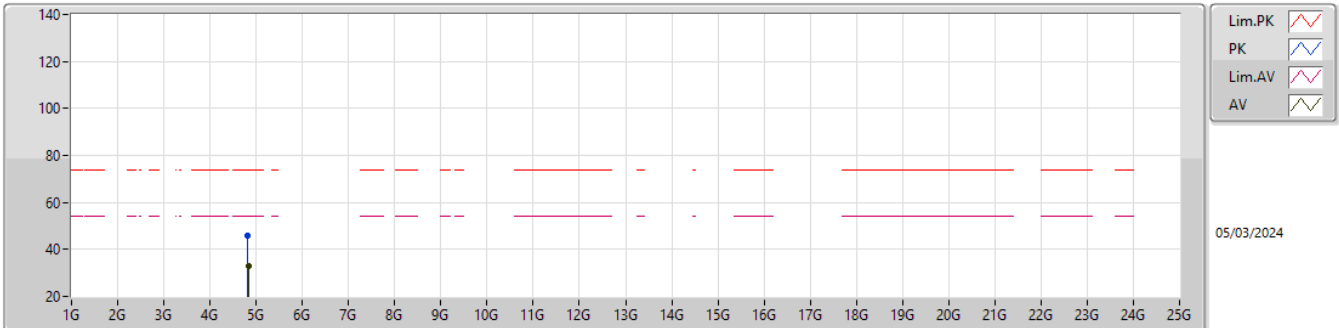


EUT\_X\_1TX  
Setting 14  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 4.82292G     | 46.17             | 74.00             | -27.83         | 41.42         | 3           | Vertical  | 360            | 2.38          | -       | 32.35      | 5.67       | 33.27      |  |  |  |
| AV   | 4.82008G     | 32.87             | 54.00             | -21.13         | 28.13         | 3           | Vertical  | 360            | 2.38          | -       | 32.34      | 5.67       | 33.27      |  |  |  |

## 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

## 2412MHz\_TX

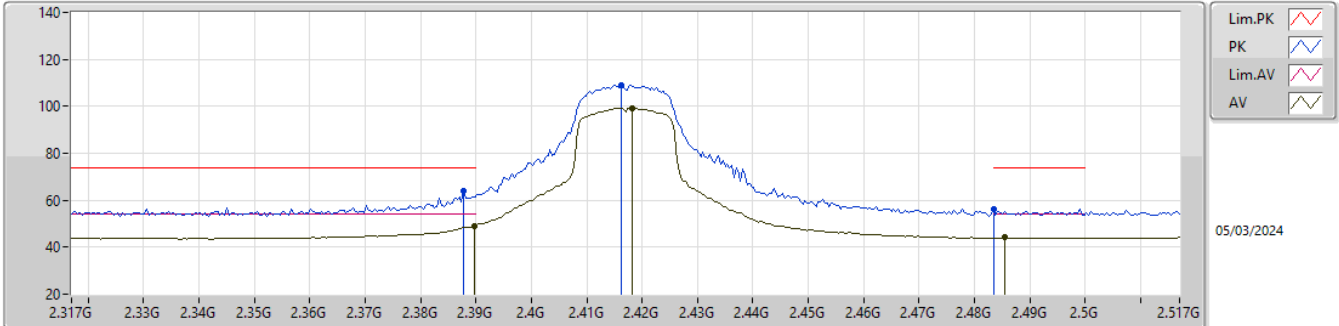


EUT\_X\_1TX  
Setting 14  
04-C-G-5

| Type | Freq     | Level    | Limit    | Margin | Raw    | Dist | Condition  | Azimuth | Height | Comment | AF    | CL   | PA    |  |  |  |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|---------|-------|------|-------|--|--|--|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dBuV) | (m)  |            | (°)     | (m)    |         | (dB)  | (dB) | (dB)  |  |  |  |
| PK   | 4.82272G | 45.95    | 74.00    | -28.05 | 41.20  | 3    | Horizontal | 262     | 1.35   | -       | 32.35 | 5.67 | 33.27 |  |  |  |
| AV   | 4.82768G | 32.92    | 54.00    | -21.08 | 28.16  | 3    | Horizontal | 262     | 1.35   | -       | 32.36 | 5.67 | 33.27 |  |  |  |

## 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

### 2417MHz\_TX

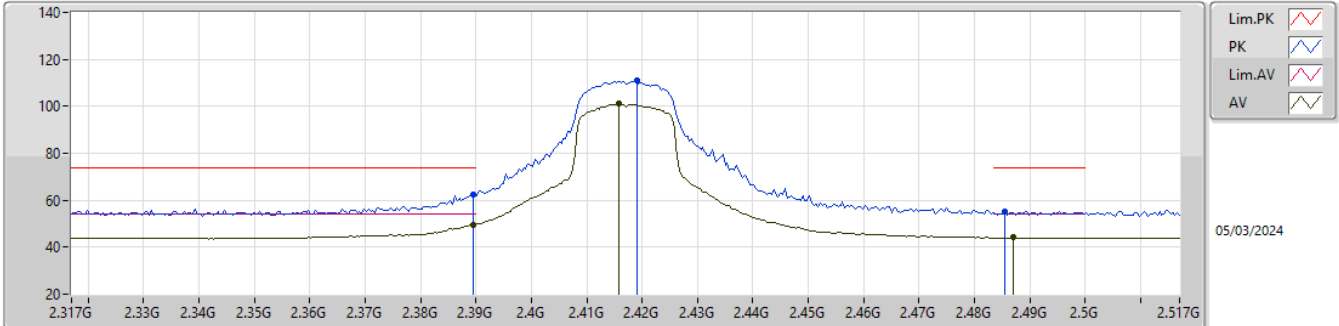


EUT\_X\_1TX  
Setting 17  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3878G      | 63.94             | 74.00             | -10.06         | 33.19         | 3           | Vertical  | 105            | 1.60          | -       | 27.40      | 3.35       | -          |  |  |  |
| AV   | 2.3898G      | 49.04             | 54.00             | -4.96          | 18.29         | 3           | Vertical  | 105            | 1.60          | -       | 27.40      | 3.35       | -          |  |  |  |
| PK   | 2.4162G      | 108.93            | Inf               | -Inf           | 78.07         | 3           | Vertical  | 105            | 1.60          | -       | 27.50      | 3.36       | -          |  |  |  |
| AV   | 2.4182G      | 99.27             | Inf               | -Inf           | 68.41         | 3           | Vertical  | 105            | 1.60          | -       | 27.50      | 3.36       | -          |  |  |  |
| PK   | 2.4835G      | 56.21             | 74.00             | -17.79         | 25.17         | 3           | Vertical  | 105            | 1.60          | -       | 27.64      | 3.40       | -          |  |  |  |
| AV   | 2.4854G      | 44.07             | 54.00             | -9.93          | 13.02         | 3           | Vertical  | 105            | 1.60          | -       | 27.65      | 3.40       | -          |  |  |  |

## 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

### 2417MHz\_TX

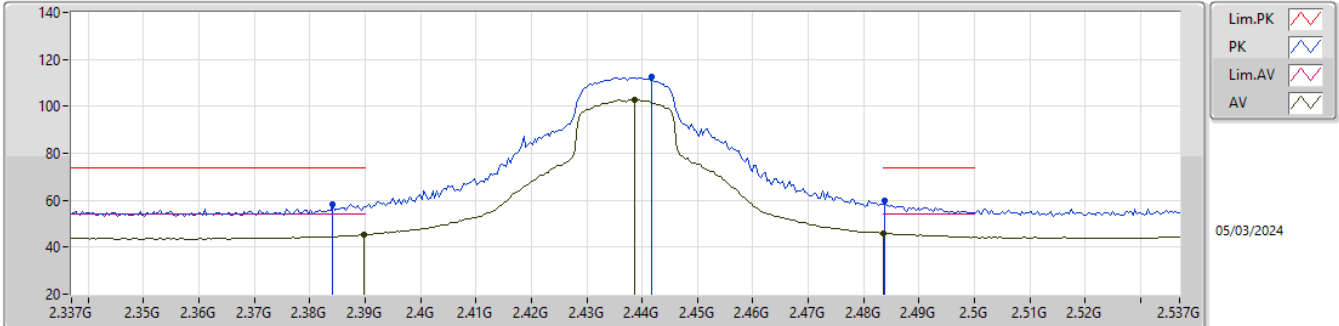


EUT\_X\_1TX  
Setting 17  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3894G      | 62.56             | 74.00             | -11.44         | 31.81         | 3           | Horizontal | 44             | 1.72          | -       | 27.40      | 3.35       | -          |  |  |  |
| AV   | 2.3894G      | 49.63             | 54.00             | -4.37          | 18.88         | 3           | Horizontal | 44             | 1.72          | -       | 27.40      | 3.35       | -          |  |  |  |
| PK   | 2.419G       | 110.85            | Inf               | -Inf           | 79.99         | 3           | Horizontal | 44             | 1.72          | -       | 27.50      | 3.36       | -          |  |  |  |
| AV   | 2.4158G      | 100.98            | Inf               | -Inf           | 70.12         | 3           | Horizontal | 44             | 1.72          | -       | 27.50      | 3.36       | -          |  |  |  |
| PK   | 2.4854G      | 55.33             | 74.00             | -18.67         | 24.28         | 3           | Horizontal | 44             | 1.72          | -       | 27.65      | 3.40       | -          |  |  |  |
| AV   | 2.487G       | 44.08             | 54.00             | -9.92          | 13.01         | 3           | Horizontal | 44             | 1.72          | -       | 27.67      | 3.40       | -          |  |  |  |

### 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

#### 2437MHz\_TX

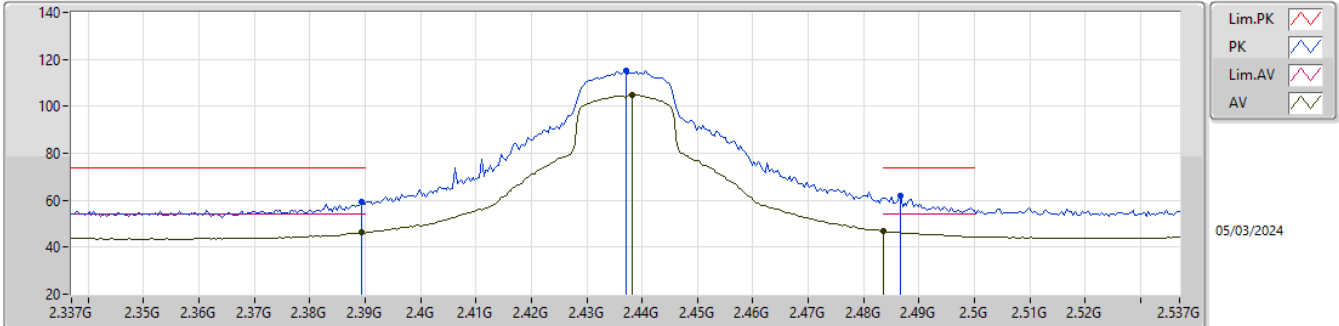


EUT\_X\_1TX  
Setting 20  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3842G      | 58.47             | 74.00             | -15.53         | 27.73         | 3           | Vertical  | 106            | 1.82          | -       | 27.40      | 3.34       | -          |  |  |  |
| AV   | 2.3898G      | 45.44             | 54.00             | -8.56          | 14.69         | 3           | Vertical  | 106            | 1.82          | -       | 27.40      | 3.35       | -          |  |  |  |
| PK   | 2.4418G      | 112.42            | Inf               | -Inf           | 81.45         | 3           | Vertical  | 106            | 1.82          | -       | 27.60      | 3.37       | -          |  |  |  |
| AV   | 2.4386G      | 102.96            | Inf               | -Inf           | 72.00         | 3           | Vertical  | 106            | 1.82          | -       | 27.59      | 3.37       | -          |  |  |  |
| PK   | 2.4838G      | 60.04             | 74.00             | -13.96         | 29.00         | 3           | Vertical  | 106            | 1.82          | -       | 27.64      | 3.40       | -          |  |  |  |
| AV   | 2.4835G      | 45.93             | 54.00             | -8.07          | 14.89         | 3           | Vertical  | 106            | 1.82          | -       | 27.64      | 3.40       | -          |  |  |  |

## 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

### 2437MHz\_TX

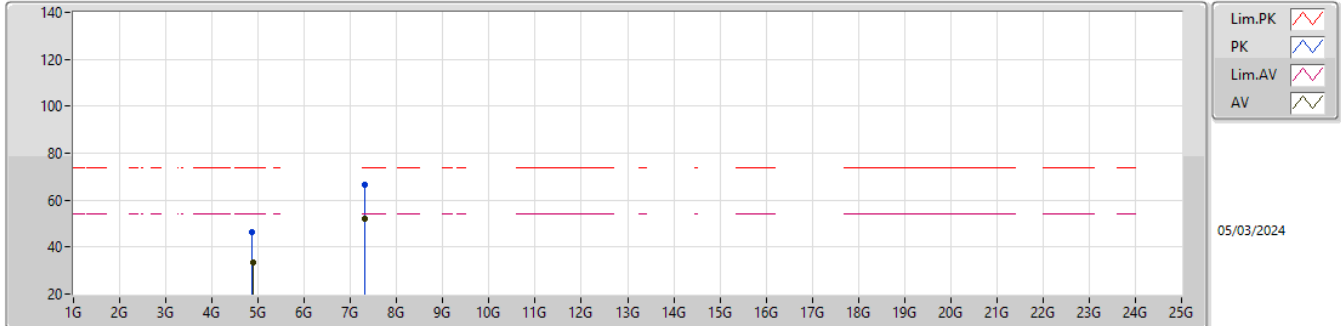


EUT\_X\_1TX  
Setting 20  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3894G      | 59.27             | 74.00             | -14.73         | 28.52         | 3           | Horizontal | 43             | 1.47          | -       | 27.40      | 3.35       | -          |  |  |  |
| AV   | 2.3894G      | 46.21             | 54.00             | -7.79          | 15.46         | 3           | Horizontal | 43             | 1.47          | -       | 27.40      | 3.35       | -          |  |  |  |
| PK   | 2.437G       | 115.18            | Inf               | -Inf           | 84.24         | 3           | Horizontal | 43             | 1.47          | -       | 27.57      | 3.37       | -          |  |  |  |
| AV   | 2.4382G      | 104.94            | Inf               | -Inf           | 73.99         | 3           | Horizontal | 43             | 1.47          | -       | 27.58      | 3.37       | -          |  |  |  |
| PK   | 2.4866G      | 62.01             | 74.00             | -11.99         | 30.94         | 3           | Horizontal | 43             | 1.47          | -       | 27.67      | 3.40       | -          |  |  |  |
| AV   | 2.4835G      | 47.12             | 54.00             | -6.88          | 16.08         | 3           | Horizontal | 43             | 1.47          | -       | 27.64      | 3.40       | -          |  |  |  |

## 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

## 2437MHz\_TX

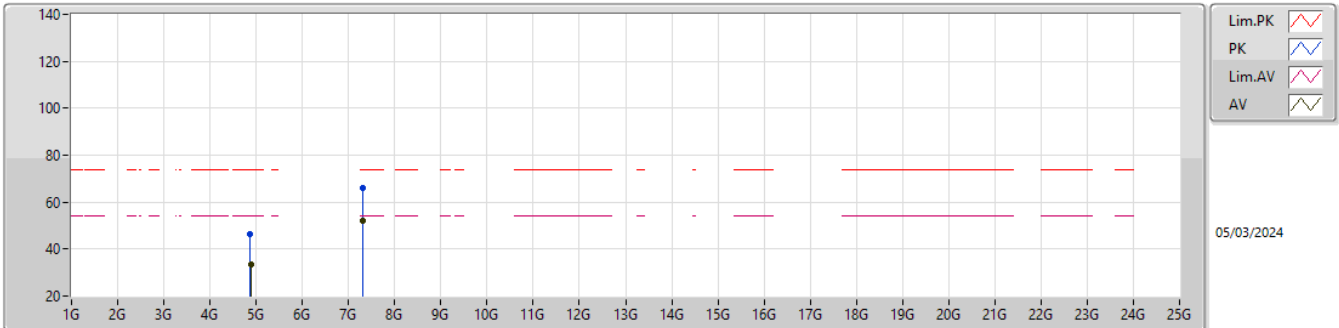


EUT\_X\_1TX  
Setting 20  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 4.86764G     | 46.50             | 74.00             | -27.50         | 41.58         | 3           | Vertical  | 182            | 2.87          | -       | 32.47      | 5.71       | 33.26      |  |  |  |
| AV   | 4.87908G     | 33.34             | 54.00             | -20.66         | 28.35         | 3           | Vertical  | 182            | 2.87          | -       | 32.52      | 5.72       | 33.25      |  |  |  |
| PK   | 7.3128G      | 66.31             | 74.00             | -7.69          | 56.09         | 3           | Vertical  | 174            | 2.22          | -       | 37.20      | 7.12       | 34.10      |  |  |  |
| AV   | 7.31236G     | 51.87             | 54.00             | -2.13          | 41.64         | 3           | Vertical  | 174            | 2.22          | -       | 37.20      | 7.12       | 34.09      |  |  |  |

2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

2437MHz\_TX

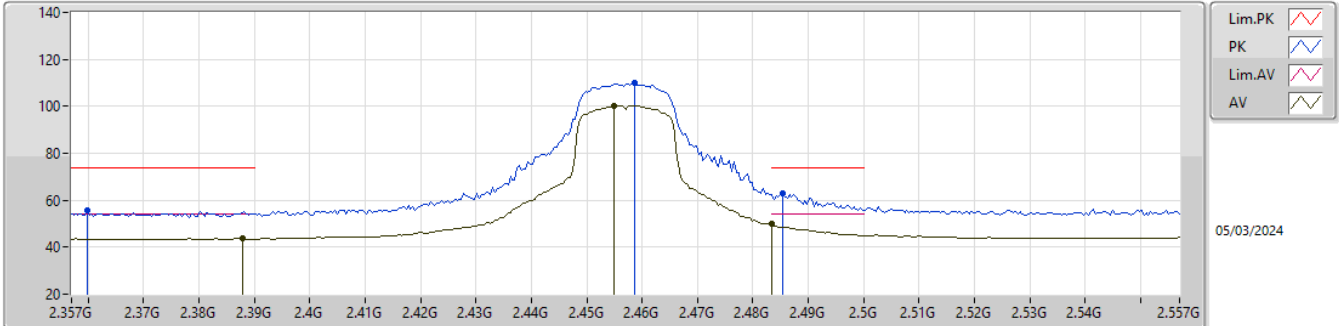


EUT\_X\_1TX  
Setting 20  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|--|
| PK   | 4.86756G     | 46.46             | 74.00             | -27.54         | 41.54         | 3           | Horizontal | 174            | 1.80          | -       | 32.47      | 5.71       | 33.26      |  |  |  |  |
| AV   | 4.87928G     | 33.50             | 54.00             | -20.50         | 28.51         | 3           | Horizontal | 174            | 1.80          | -       | 32.52      | 5.72       | 33.25      |  |  |  |  |
| PK   | 7.31228G     | 66.24             | 74.00             | -7.76          | 56.01         | 3           | Horizontal | 11             | 2.65          | -       | 37.20      | 7.12       | 34.09      |  |  |  |  |
| AV   | 7.30932G     | 52.01             | 54.00             | -1.99          | 41.78         | 3           | Horizontal | 11             | 2.65          | -       | 37.20      | 7.12       | 34.09      |  |  |  |  |

## 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

### 2457MHz\_TX

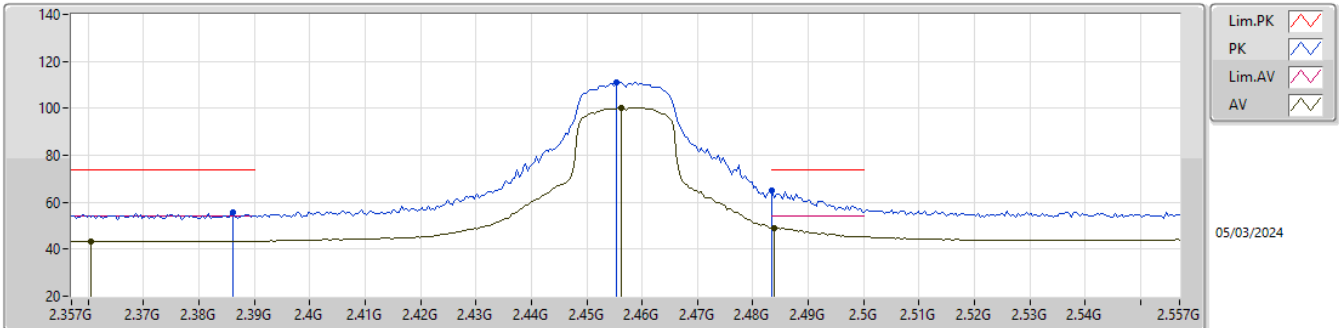


EUT\_X\_1TX  
Setting 17  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3598G      | 55.92             | 74.00             | -18.08         | 25.19         | 3           | Vertical  | 110            | 1.60          | -       | 27.40      | 3.33       | -          |  |  |  |
| AV   | 2.3878G      | 43.60             | 54.00             | -10.40         | 12.85         | 3           | Vertical  | 110            | 1.60          | -       | 27.40      | 3.35       | -          |  |  |  |
| PK   | 2.4586G      | 110.07            | Inf               | -Inf           | 79.09         | 3           | Vertical  | 110            | 1.60          | -       | 27.60      | 3.38       | -          |  |  |  |
| AV   | 2.455G       | 100.20            | Inf               | -Inf           | 69.22         | 3           | Vertical  | 110            | 1.60          | -       | 27.60      | 3.38       | -          |  |  |  |
| PK   | 2.4854G      | 62.71             | 74.00             | -11.29         | 31.66         | 3           | Vertical  | 110            | 1.60          | -       | 27.65      | 3.40       | -          |  |  |  |
| AV   | 2.4835G      | 49.93             | 54.00             | -4.07          | 18.89         | 3           | Vertical  | 110            | 1.60          | -       | 27.64      | 3.40       | -          |  |  |  |

## 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

### 2457MHz\_TX

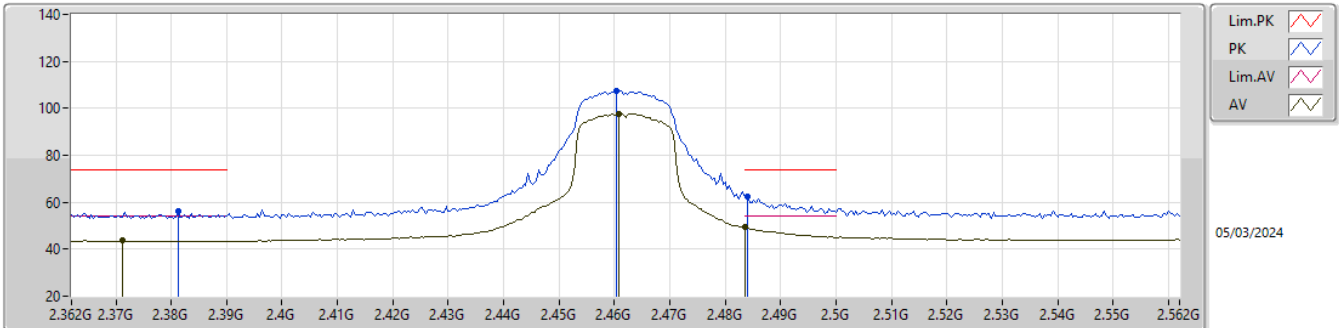


EUT\_X\_1TX  
Setting 17  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3862G      | 55.67             | 74.00             | -18.33         | 24.93         | 3           | Horizontal | 43             | 2.43          | -       | 27.40      | 3.34       | -          |  |  |  |
| AV   | 2.3606G      | 43.52             | 54.00             | -10.48         | 12.78         | 3           | Horizontal | 43             | 2.43          | -       | 27.41      | 3.33       | -          |  |  |  |
| PK   | 2.4554G      | 111.10            | Inf               | -Inf           | 80.12         | 3           | Horizontal | 43             | 2.43          | -       | 27.60      | 3.38       | -          |  |  |  |
| AV   | 2.4562G      | 100.35            | Inf               | -Inf           | 69.37         | 3           | Horizontal | 43             | 2.43          | -       | 27.60      | 3.38       | -          |  |  |  |
| PK   | 2.4835G      | 64.94             | 74.00             | -9.06          | 33.90         | 3           | Horizontal | 43             | 2.43          | -       | 27.64      | 3.40       | -          |  |  |  |
| AV   | 2.4838G      | 49.22             | 54.00             | -4.78          | 18.18         | 3           | Horizontal | 43             | 2.43          | -       | 27.64      | 3.40       | -          |  |  |  |

## 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

### 2462MHz\_TX

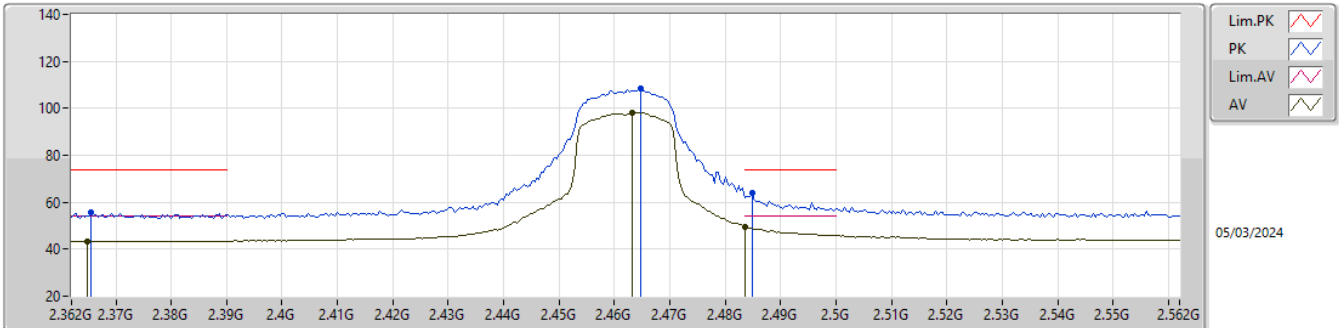


EUT\_X\_1TX  
Setting 14  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3812G      | 55.99             | 74.00             | -18.01         | 25.25         | 3           | Vertical  | 109            | 1.58          | -       | 27.40      | 3.34       | -          |  |  |  |
| AV   | 2.3712G      | 43.64             | 54.00             | -10.36         | 12.81         | 3           | Vertical  | 109            | 1.58          | -       | 27.49      | 3.34       | -          |  |  |  |
| PK   | 2.4604G      | 107.58            | Inf               | -Inf           | 76.60         | 3           | Vertical  | 109            | 1.58          | -       | 27.60      | 3.38       | -          |  |  |  |
| AV   | 2.4608G      | 97.65             | Inf               | -Inf           | 66.67         | 3           | Vertical  | 109            | 1.58          | -       | 27.60      | 3.38       | -          |  |  |  |
| PK   | 2.484G       | 62.33             | 74.00             | -11.67         | 31.29         | 3           | Vertical  | 109            | 1.58          | -       | 27.64      | 3.40       | -          |  |  |  |
| AV   | 2.4835G      | 49.37             | 54.00             | -4.63          | 18.33         | 3           | Vertical  | 109            | 1.58          | -       | 27.64      | 3.40       | -          |  |  |  |

## 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

### 2462MHz\_TX

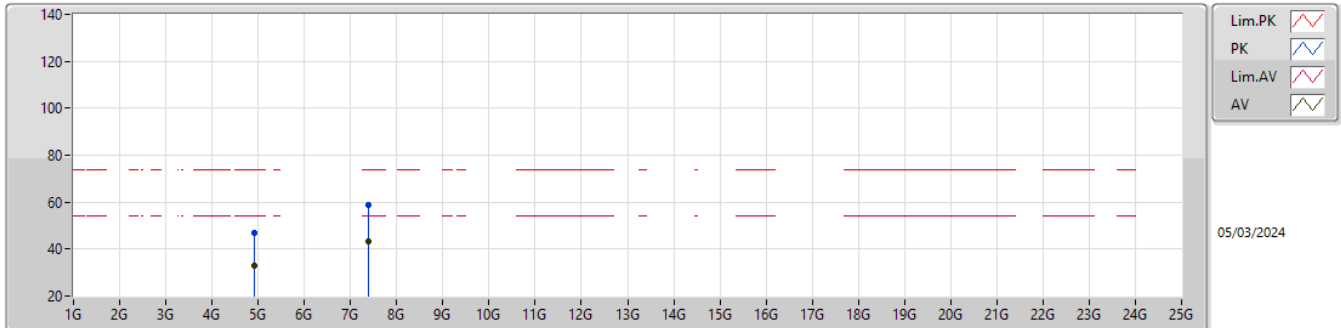


EUT\_X\_1TX  
Setting 14  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3656G      | 55.46             | 74.00             | -18.54         | 24.66         | 3           | Horizontal | 44             | 2.94          | -       | 27.46      | 3.34       | -          |  |  |  |
| AV   | 2.3648G      | 43.50             | 54.00             | -10.50         | 12.71         | 3           | Horizontal | 44             | 2.94          | -       | 27.45      | 3.34       | -          |  |  |  |
| PK   | 2.4648G      | 108.26            | Inf               | -Inf           | 77.27         | 3           | Horizontal | 44             | 2.94          | -       | 27.60      | 3.39       | -          |  |  |  |
| AV   | 2.4632G      | 98.03             | Inf               | -Inf           | 67.05         | 3           | Horizontal | 44             | 2.94          | -       | 27.60      | 3.38       | -          |  |  |  |
| PK   | 2.4848G      | 63.73             | 74.00             | -10.27         | 32.68         | 3           | Horizontal | 44             | 2.94          | -       | 27.65      | 3.40       | -          |  |  |  |
| AV   | 2.4835G      | 49.36             | 54.00             | -4.64          | 18.32         | 3           | Horizontal | 44             | 2.94          | -       | 27.64      | 3.40       | -          |  |  |  |

## 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

### 2462MHz\_TX

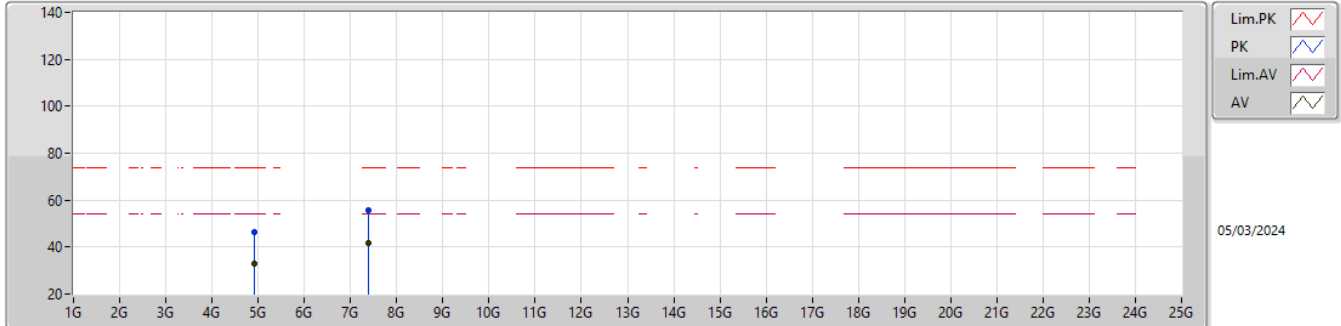


EUT\_X\_1TX  
Setting 14  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 4.92696G     | 46.90             | 74.00             | -27.10         | 41.73         | 3           | Vertical  | 107            | 2.29          | -       | 32.65      | 5.76       | 33.24      |  |  |  |
| AV   | 4.9234G      | 32.94             | 54.00             | -21.06         | 27.77         | 3           | Vertical  | 107            | 2.29          | -       | 32.65      | 5.76       | 33.24      |  |  |  |
| PK   | 7.3864G      | 59.05             | 74.00             | -14.95         | 48.81         | 3           | Vertical  | 172            | 2.28          | -       | 37.20      | 7.16       | 34.12      |  |  |  |
| AV   | 7.38564G     | 43.45             | 54.00             | -10.55         | 33.21         | 3           | Vertical  | 172            | 2.28          | -       | 37.20      | 7.16       | 34.12      |  |  |  |

### 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_1TX

#### 2462MHz\_TX

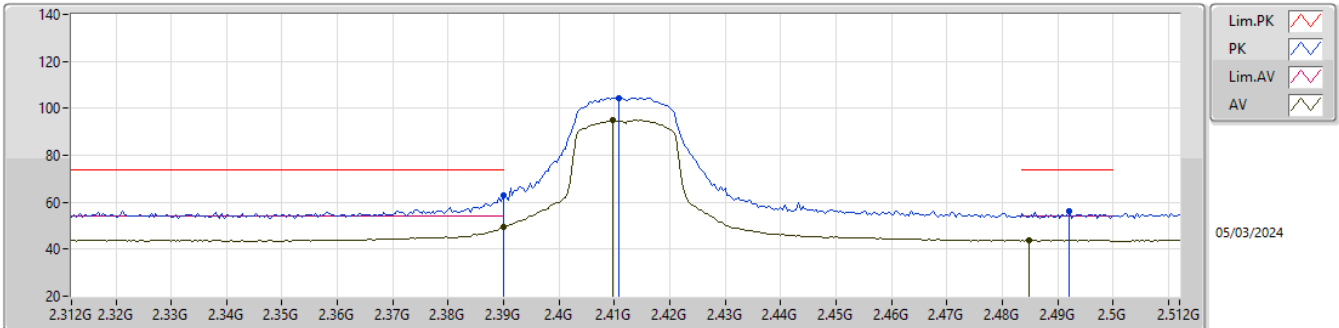


EUT\_X\_1TX  
Setting 14  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 4.92036G     | 46.22             | 74.00             | -27.78         | 41.06         | 3           | Horizontal | 116            | 1.80          | -       | 32.64      | 5.76       | 33.24      |  |  |  |
| AV   | 4.91916G     | 33.16             | 54.00             | -20.84         | 28.00         | 3           | Horizontal | 116            | 1.80          | -       | 32.64      | 5.76       | 33.24      |  |  |  |
| PK   | 7.38504G     | 55.44             | 74.00             | -18.56         | 45.20         | 3           | Horizontal | 202            | 1.80          | -       | 37.20      | 7.16       | 34.12      |  |  |  |
| AV   | 7.38588G     | 41.50             | 54.00             | -12.50         | 31.26         | 3           | Horizontal | 202            | 1.80          | -       | 37.20      | 7.16       | 34.12      |  |  |  |

## 2.4-2.4835GHz\_802.11n\_HT20\_Nss1,(MCS0)\_1TX

### 2412MHz\_TX

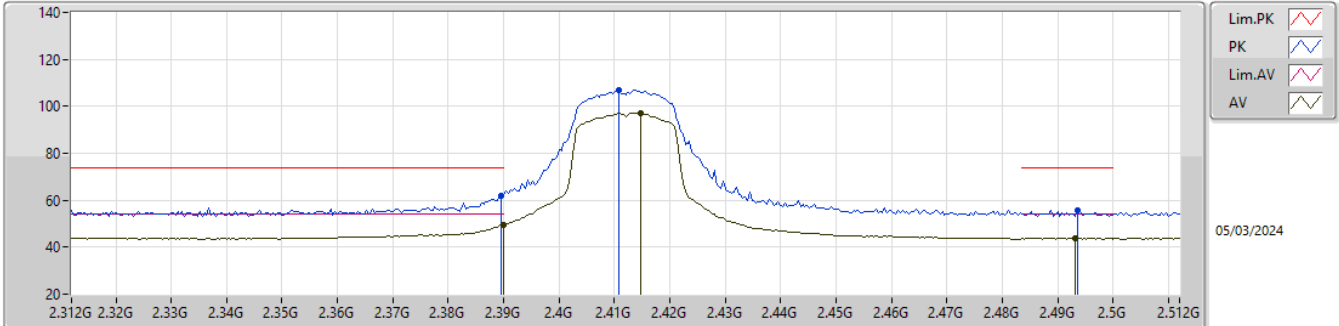


EUT\_X\_1TX  
Setting 13  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.39G        | 63.02             | 74.00             | -10.98         | 32.27         | 3           | Vertical  | 104            | 1.60          | -       | 27.40      | 3.35       | -          |  |  |  |
| AV   | 2.39G        | 49.33             | 54.00             | -4.67          | 18.58         | 3           | Vertical  | 104            | 1.60          | -       | 27.40      | 3.35       | -          |  |  |  |
| PK   | 2.4108G      | 104.56            | Inf               | -Inf           | 73.70         | 3           | Vertical  | 104            | 1.60          | -       | 27.50      | 3.36       | -          |  |  |  |
| AV   | 2.4096G      | 94.96             | Inf               | -Inf           | 64.10         | 3           | Vertical  | 104            | 1.60          | -       | 27.50      | 3.36       | -          |  |  |  |
| PK   | 2.492G       | 56.46             | 74.00             | -17.54         | 25.36         | 3           | Vertical  | 104            | 1.60          | -       | 27.70      | 3.40       | -          |  |  |  |
| AV   | 2.4848G      | 43.79             | 54.00             | -10.21         | 12.74         | 3           | Vertical  | 104            | 1.60          | -       | 27.65      | 3.40       | -          |  |  |  |

## 2.4-2.4835GHz\_802.11n\_HT20\_Nss1,(MCS0)\_1TX

### 2412MHz\_TX

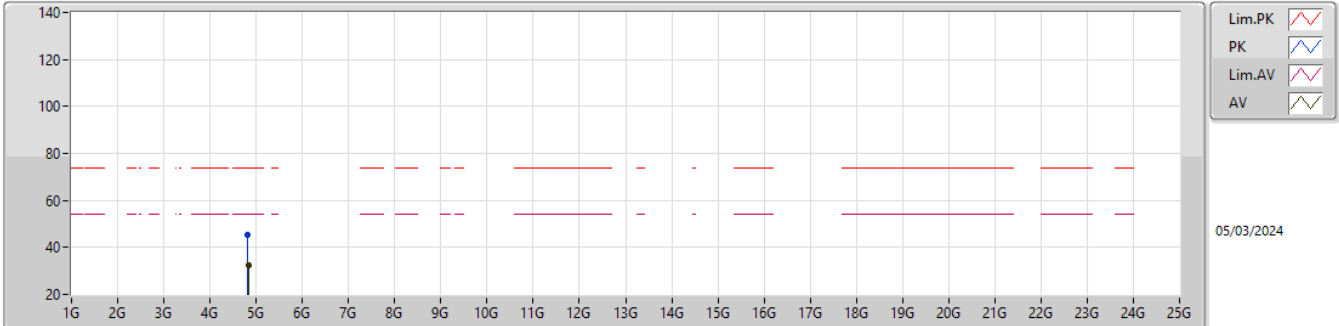


EUT\_X\_1TX  
Setting 13  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3896G      | 61.72             | 74.00             | -12.28         | 30.97         | 3           | Horizontal | 38             | 1.69          | -       | 27.40      | 3.35       | -          |  |  |  |
| AV   | 2.39G        | 49.68             | 54.00             | -4.32          | 18.93         | 3           | Horizontal | 38             | 1.69          | -       | 27.40      | 3.35       | -          |  |  |  |
| PK   | 2.4108G      | 106.87            | Inf               | -Inf           | 76.01         | 3           | Horizontal | 38             | 1.69          | -       | 27.50      | 3.36       | -          |  |  |  |
| AV   | 2.4148G      | 96.96             | Inf               | -Inf           | 66.10         | 3           | Horizontal | 38             | 1.69          | -       | 27.50      | 3.36       | -          |  |  |  |
| PK   | 2.4936G      | 55.54             | 74.00             | -18.46         | 24.44         | 3           | Horizontal | 38             | 1.69          | -       | 27.70      | 3.40       | -          |  |  |  |
| AV   | 2.4932G      | 43.96             | 54.00             | -10.04         | 12.86         | 3           | Horizontal | 38             | 1.69          | -       | 27.70      | 3.40       | -          |  |  |  |

## 2.4-2.4835GHz\_802.11n HT20\_Nss1,(MCS0)\_1TX

### 2412MHz\_TX

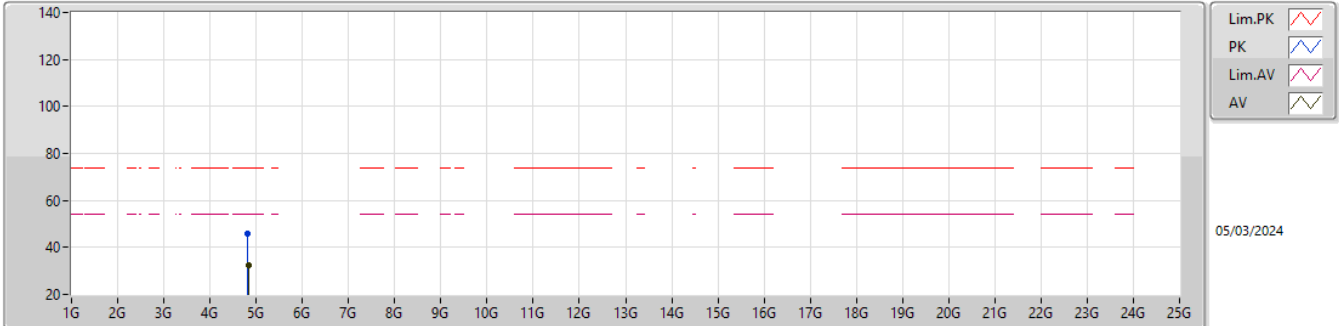


EUT\_X\_1TX  
Setting 13  
04-C-G-5

| Type | Freq     | Level    | Limit    | Margin | Raw    | Dist | Condition | Azimuth | Height | Comment | AF    | CL   | PA    |  |  |  |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|---------|-------|------|-------|--|--|--|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dBuV) | (m)  |           | (°)     | (m)    |         | (dB)  | (dB) | (dB)  |  |  |  |
| PK   | 4.82412G | 45.60    | 74.00    | -28.40 | 40.85  | 3    | Vertical  | 100     | 1.80   | -       | 32.35 | 5.67 | 33.27 |  |  |  |
| AV   | 4.82804G | 32.45    | 54.00    | -21.55 | 27.68  | 3    | Vertical  | 100     | 1.80   | -       | 32.36 | 5.68 | 33.27 |  |  |  |

## 2.4-2.4835GHz\_802.11n\_HT20\_Nss1,(MCS0)\_1TX

## 2412MHz\_TX

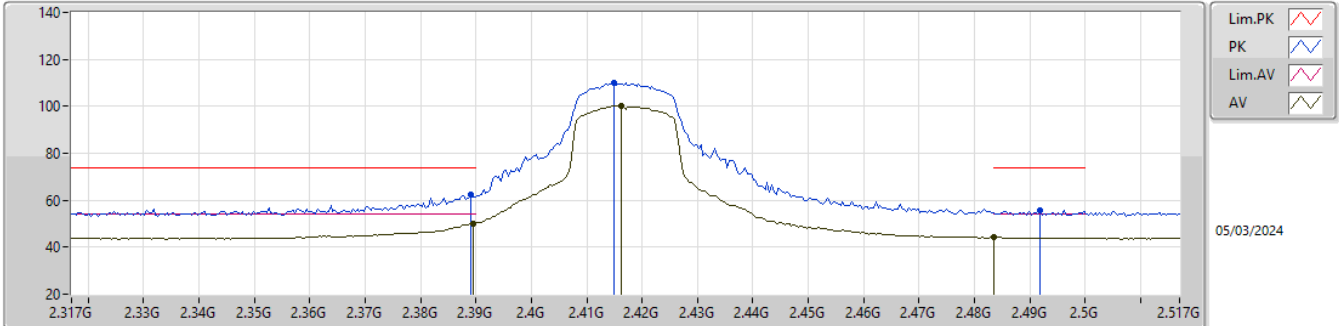


EUT\_X\_1TX  
Setting 13  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 4.81528G     | 45.77             | 74.00             | -28.23         | 41.06         | 3           | Horizontal | 30             | 1.80          | -       | 32.33      | 5.66       | 33.28      |  |  |  |
| AV   | 4.8302G      | 32.45             | 54.00             | -21.55         | 27.68         | 3           | Horizontal | 30             | 1.80          | -       | 32.36      | 5.68       | 33.27      |  |  |  |

## 2.4-2.4835GHz\_802.11n HT20\_Nss1,(MCS0)\_1TX

### 2417MHz\_TX

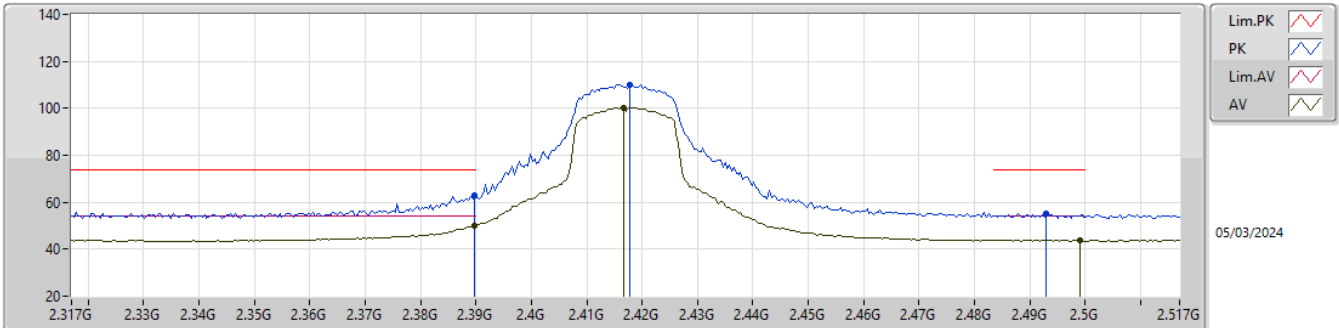


EUT\_X\_1TX  
Setting 17  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.389G       | 62.35             | 74.00             | -11.65         | 31.60         | 3           | Vertical  | 97             | 1.00          | -       | 27.40      | 3.35       | -          |  |  |  |
| AV   | 2.3894G      | 49.90             | 54.00             | -4.10          | 19.15         | 3           | Vertical  | 97             | 1.00          | -       | 27.40      | 3.35       | -          |  |  |  |
| PK   | 2.415G       | 109.82            | Inf               | -Inf           | 78.96         | 3           | Vertical  | 97             | 1.00          | -       | 27.50      | 3.36       | -          |  |  |  |
| AV   | 2.4162G      | 100.29            | Inf               | -Inf           | 69.43         | 3           | Vertical  | 97             | 1.00          | -       | 27.50      | 3.36       | -          |  |  |  |
| PK   | 2.4918G      | 55.67             | 74.00             | -18.33         | 24.57         | 3           | Vertical  | 97             | 1.00          | -       | 27.70      | 3.40       | -          |  |  |  |
| AV   | 2.4835G      | 44.11             | 54.00             | -9.89          | 13.07         | 3           | Vertical  | 97             | 1.00          | -       | 27.64      | 3.40       | -          |  |  |  |

2.4-2.4835GHz\_802.11n\_HT20\_Nss1,(MCS0)\_1TX

2417MHz\_TX

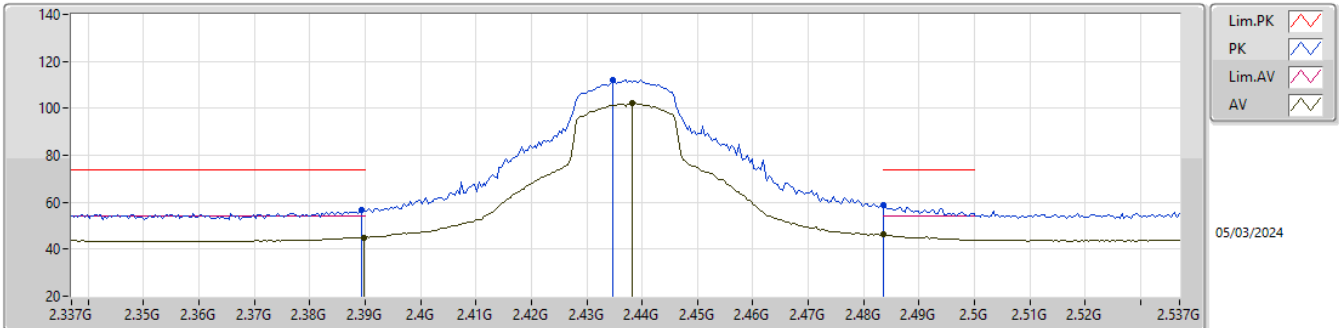


EUT\_X\_1TX  
Setting 17  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3898G      | 63.11             | 74.00             | -10.89         | 32.36         | 3           | Horizontal | 40             | 1.75          | -       | 27.40      | 3.35       | -          |  |  |  |
| AV   | 2.3898G      | 50.11             | 54.00             | -3.89          | 19.36         | 3           | Horizontal | 40             | 1.75          | -       | 27.40      | 3.35       | -          |  |  |  |
| PK   | 2.4178G      | 110.11            | Inf               | -Inf           | 79.25         | 3           | Horizontal | 40             | 1.75          | -       | 27.50      | 3.36       | -          |  |  |  |
| AV   | 2.4166G      | 100.39            | Inf               | -Inf           | 69.53         | 3           | Horizontal | 40             | 1.75          | -       | 27.50      | 3.36       | -          |  |  |  |
| PK   | 2.493G       | 55.16             | 74.00             | -18.84         | 24.06         | 3           | Horizontal | 40             | 1.75          | -       | 27.70      | 3.40       | -          |  |  |  |
| AV   | 2.499G       | 43.87             | 54.00             | -10.13         | 12.77         | 3           | Horizontal | 40             | 1.75          | -       | 27.70      | 3.40       | -          |  |  |  |

## 2.4-2.4835GHz\_802.11n\_HT20\_Nss1,(MCS0)\_1TX

### 2437MHz\_TX

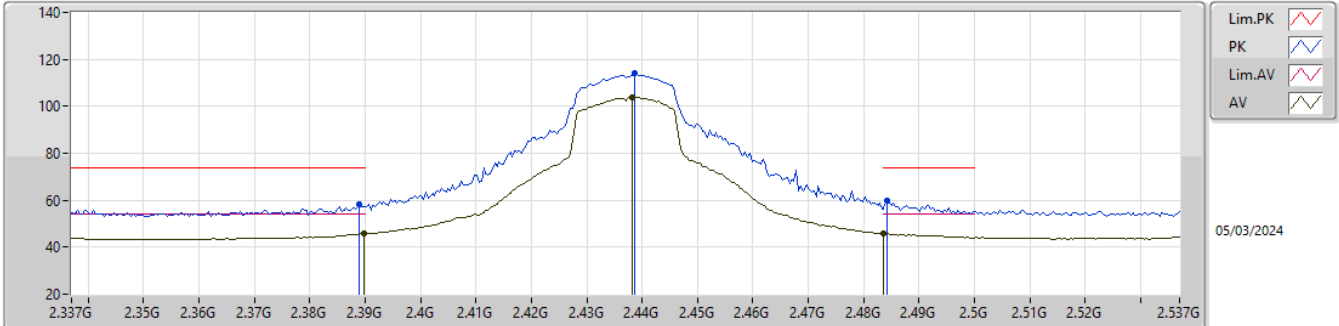


EUT\_X\_1TX  
Setting 20  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3894G      | 56.50             | 74.00             | -17.50         | 25.75         | 3           | Vertical  | 108            | 1.83          | -       | 27.40      | 3.35       | -          |  |  |  |
| AV   | 2.3898G      | 45.04             | 54.00             | -8.96          | 14.29         | 3           | Vertical  | 108            | 1.83          | -       | 27.40      | 3.35       | -          |  |  |  |
| PK   | 2.4346G      | 112.21            | Inf               | -Inf           | 81.29         | 3           | Vertical  | 108            | 1.83          | -       | 27.55      | 3.37       | -          |  |  |  |
| AV   | 2.4382G      | 102.21            | Inf               | -Inf           | 71.26         | 3           | Vertical  | 108            | 1.83          | -       | 27.58      | 3.37       | -          |  |  |  |
| PK   | 2.4835G      | 58.73             | 74.00             | -15.27         | 27.69         | 3           | Vertical  | 108            | 1.83          | -       | 27.64      | 3.40       | -          |  |  |  |
| AV   | 2.4835G      | 46.23             | 54.00             | -7.77          | 15.19         | 3           | Vertical  | 108            | 1.83          | -       | 27.64      | 3.40       | -          |  |  |  |

## 2.4-2.4835GHz\_802.11n HT20\_Nss1,(MCS0)\_1TX

### 2437MHz\_TX

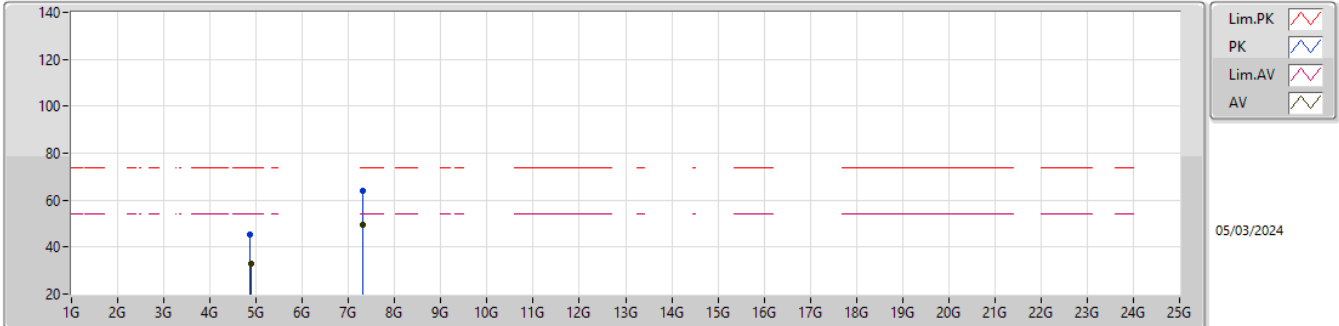


EUT\_X\_1TX  
Setting 20  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|--|
| PK   | 2.389G       | 58.34             | 74.00             | -15.66         | 27.59         | 3           | Horizontal | 40             | 2.81          | -       | 27.40      | 3.35       | -          |  |  |  |  |
| AV   | 2.3898G      | 45.66             | 54.00             | -8.34          | 14.91         | 3           | Horizontal | 40             | 2.81          | -       | 27.40      | 3.35       | -          |  |  |  |  |
| PK   | 2.4386G      | 114.09            | Inf               | -Inf           | 83.13         | 3           | Horizontal | 40             | 2.81          | -       | 27.59      | 3.37       | -          |  |  |  |  |
| AV   | 2.4382G      | 103.99            | Inf               | -Inf           | 73.04         | 3           | Horizontal | 40             | 2.81          | -       | 27.58      | 3.37       | -          |  |  |  |  |
| PK   | 2.4842G      | 59.59             | 74.00             | -14.41         | 28.55         | 3           | Horizontal | 40             | 2.81          | -       | 27.64      | 3.40       | -          |  |  |  |  |
| AV   | 2.4835G      | 45.77             | 54.00             | -8.23          | 14.73         | 3           | Horizontal | 40             | 2.81          | -       | 27.64      | 3.40       | -          |  |  |  |  |

### 2.4-2.4835GHz\_802.11n\_HT20\_Nss1,(MCS0)\_1TX

#### 2437MHz\_TX

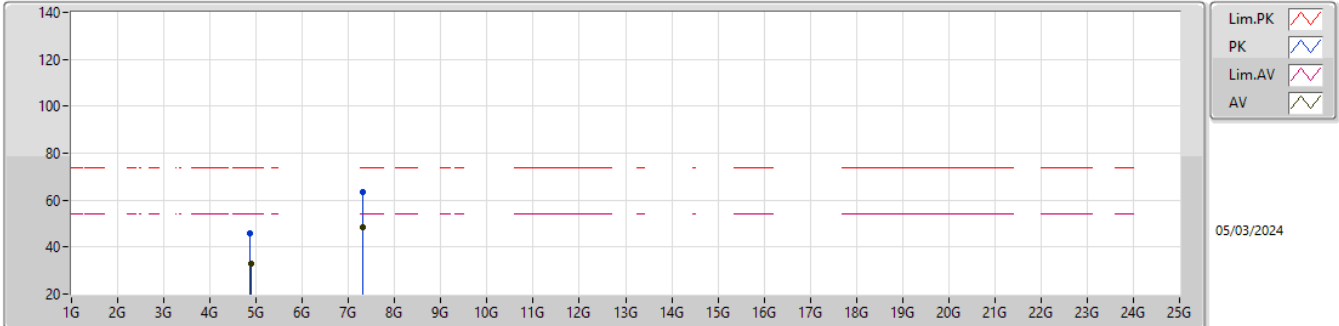


EUT\_X\_1TX  
Setting 20  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 4.87622G     | 45.59             | 74.00             | -28.41         | 40.62         | 3           | Vertical  | -0             | 1.00          | -       | 32.50      | 5.72       | 33.25      |  |  |  |
| AV   | 4.87826G     | 33.03             | 54.00             | -20.97         | 28.05         | 3           | Vertical  | -0             | 1.00          | -       | 32.51      | 5.72       | 33.25      |  |  |  |
| PK   | 7.3146G      | 63.91             | 74.00             | -10.09         | 53.69         | 3           | Vertical  | 177            | 1.06          | -       | 37.20      | 7.12       | 34.10      |  |  |  |
| AV   | 7.31136G     | 49.54             | 54.00             | -4.46          | 39.31         | 3           | Vertical  | 177            | 1.06          | -       | 37.20      | 7.12       | 34.09      |  |  |  |

2.4-2.4835GHz\_802.11n\_HT20\_Nss1,(MCS0)\_1TX

2437MHz\_TX

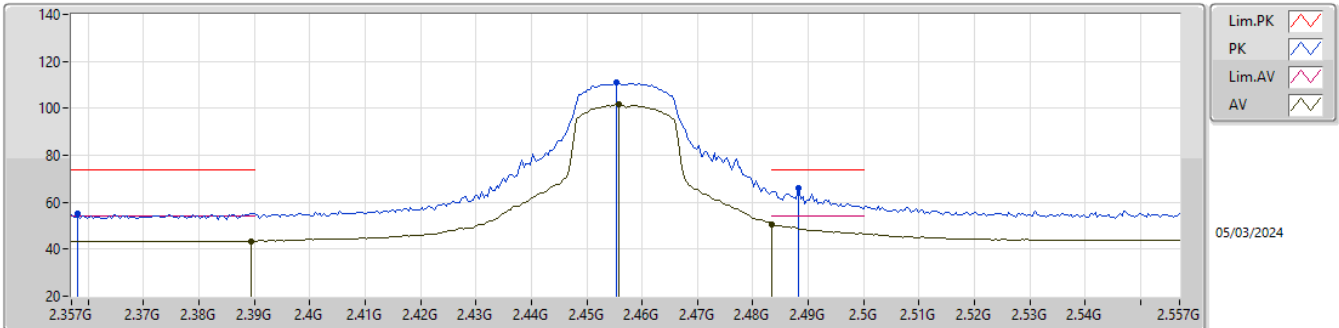


EUT\_X\_1TX  
Setting 20  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 4.86944G     | 45.67             | 74.00             | -28.33         | 40.74         | 3           | Horizontal | 29             | 1.80          | -       | 32.48      | 5.71       | 33.26      |  |  |  |
| AV   | 4.88252G     | 32.85             | 54.00             | -21.15         | 27.85         | 3           | Horizontal | 29             | 1.80          | -       | 32.53      | 5.72       | 33.25      |  |  |  |
| PK   | 7.31706G     | 63.33             | 74.00             | -10.67         | 53.11         | 3           | Horizontal | 17             | 1.02          | -       | 37.20      | 7.12       | 34.10      |  |  |  |
| AV   | 7.31148G     | 48.64             | 54.00             | -5.36          | 38.41         | 3           | Horizontal | 17             | 1.02          | -       | 37.20      | 7.12       | 34.09      |  |  |  |

2.4-2.4835GHz\_802.11n\_HT20\_Nss1,(MCS0)\_1TX

2457MHz\_TX

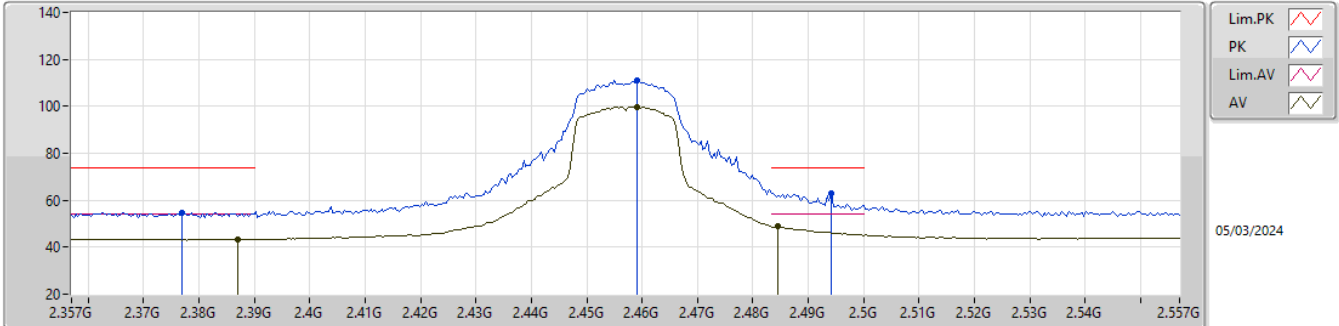


EUT\_X\_1TX  
Setting 17  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3582G      | 55.36             | 74.00             | -18.64         | 24.63         | 3           | Vertical  | 97             | 1.04          | -       | 27.40      | 3.33       | -          |  |  |  |
| AV   | 2.3894G      | 43.53             | 54.00             | -10.47         | 12.78         | 3           | Vertical  | 97             | 1.04          | -       | 27.40      | 3.35       | -          |  |  |  |
| PK   | 2.4554G      | 110.84            | Inf               | -Inf           | 79.86         | 3           | Vertical  | 97             | 1.04          | -       | 27.60      | 3.38       | -          |  |  |  |
| AV   | 2.4558G      | 101.56            | Inf               | -Inf           | 70.58         | 3           | Vertical  | 97             | 1.04          | -       | 27.60      | 3.38       | -          |  |  |  |
| PK   | 2.4882G      | 65.91             | 74.00             | -8.09          | 34.83         | 3           | Vertical  | 97             | 1.04          | -       | 27.68      | 3.40       | -          |  |  |  |
| AV   | 2.4835G      | 50.54             | 54.00             | -3.46          | 19.50         | 3           | Vertical  | 97             | 1.04          | -       | 27.64      | 3.40       | -          |  |  |  |

2.4-2.4835GHz\_802.11n\_HT20\_Nss1,(MCS0)\_1TX

2457MHz\_TX

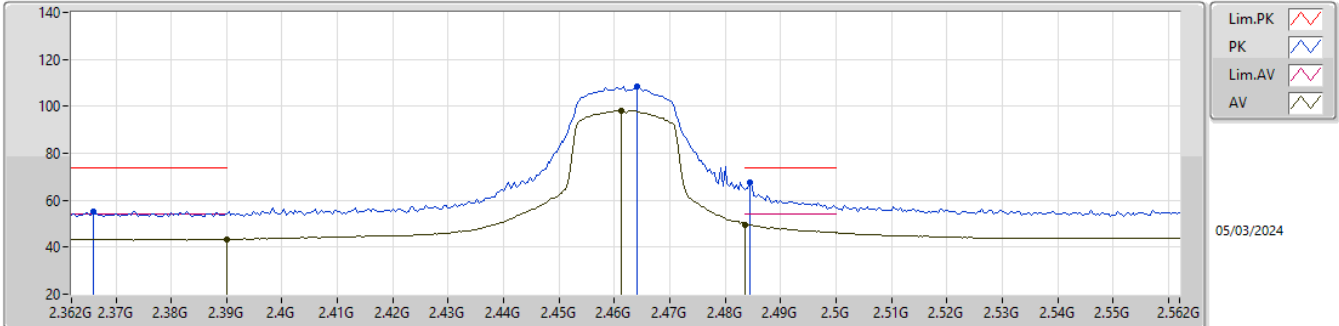


EUT\_X\_1TX  
Setting 17  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.377G       | 54.83             | 74.00             | -19.17         | 24.06         | 3           | Horizontal | 42             | 2.43          | -       | 27.43      | 3.34       | -          |  |  |  |
| AV   | 2.387G       | 43.40             | 54.00             | -10.60         | 12.66         | 3           | Horizontal | 42             | 2.43          | -       | 27.40      | 3.34       | -          |  |  |  |
| PK   | 2.459G       | 111.14            | Inf               | -Inf           | 80.16         | 3           | Horizontal | 42             | 2.43          | -       | 27.60      | 3.38       | -          |  |  |  |
| AV   | 2.459G       | 99.72             | Inf               | -Inf           | 68.74         | 3           | Horizontal | 42             | 2.43          | -       | 27.60      | 3.38       | -          |  |  |  |
| PK   | 2.4942G      | 63.08             | 74.00             | -10.92         | 31.98         | 3           | Horizontal | 42             | 2.43          | -       | 27.70      | 3.40       | -          |  |  |  |
| AV   | 2.4846G      | 48.73             | 54.00             | -5.27          | 17.68         | 3           | Horizontal | 42             | 2.43          | -       | 27.65      | 3.40       | -          |  |  |  |

## 2.4-2.4835GHz\_802.11n\_HT20\_Nss1,(MCS0)\_1TX

### 2462MHz\_TX

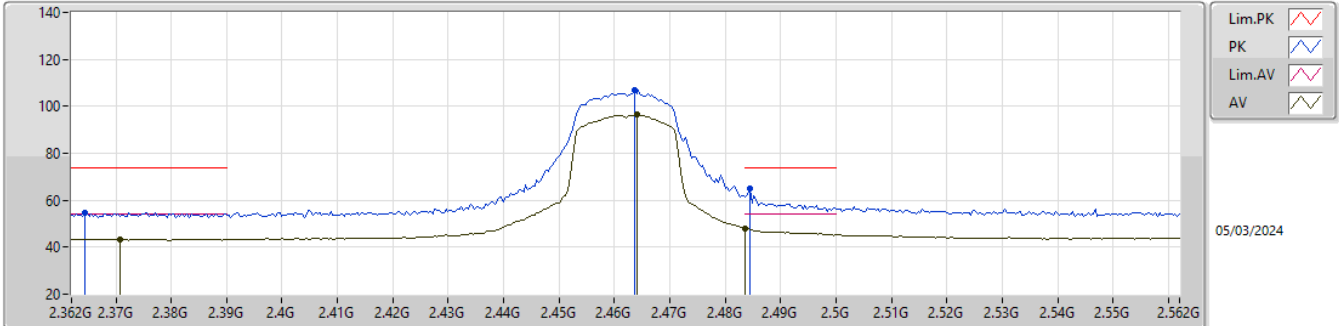


EUT\_X\_1TX  
Setting 14  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.366G       | 55.41             | 74.00             | -18.59         | 24.61         | 3           | Vertical  | 83             | 1.07          | -       | 27.46      | 3.34       | -          |  |  |  |
| AV   | 2.39G        | 43.50             | 54.00             | -10.50         | 12.75         | 3           | Vertical  | 83             | 1.07          | -       | 27.40      | 3.35       | -          |  |  |  |
| PK   | 2.464G       | 108.25            | Inf               | -Inf           | 77.26         | 3           | Vertical  | 83             | 1.07          | -       | 27.60      | 3.39       | -          |  |  |  |
| AV   | 2.4612G      | 98.16             | Inf               | -Inf           | 67.18         | 3           | Vertical  | 83             | 1.07          | -       | 27.60      | 3.38       | -          |  |  |  |
| PK   | 2.4844G      | 67.67             | 74.00             | -6.33          | 36.63         | 3           | Vertical  | 83             | 1.07          | -       | 27.64      | 3.40       | -          |  |  |  |
| AV   | 2.4835G      | 49.71             | 54.00             | -4.29          | 18.67         | 3           | Vertical  | 83             | 1.07          | -       | 27.64      | 3.40       | -          |  |  |  |

2.4-2.4835GHz\_802.11n\_HT20\_Nss1,(MCS0)\_1TX

2462MHz\_TX

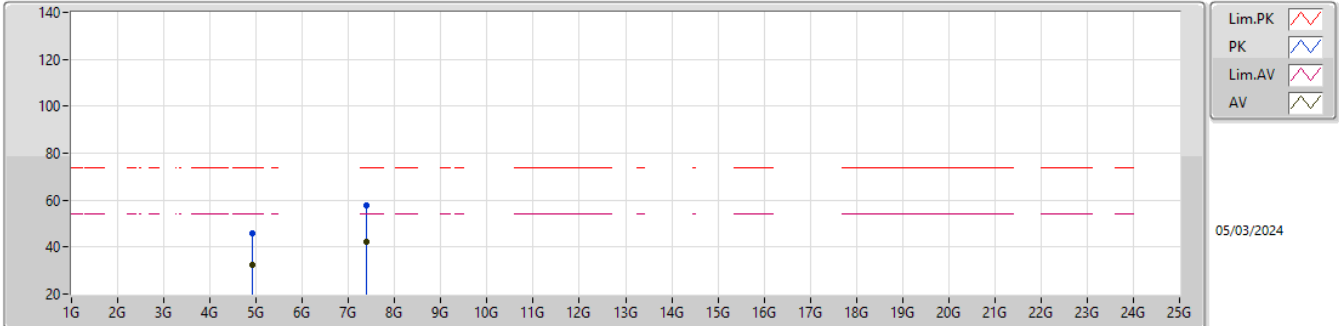


EUT\_X\_1TX  
Setting 14  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 2.3644G      | 54.62             | 74.00             | -19.38         | 23.84         | 3           | Horizontal | 45             | 2.91          | -       | 27.44      | 3.34       | -          |  |  |  |
| AV   | 2.3708G      | 43.38             | 54.00             | -10.62         | 12.55         | 3           | Horizontal | 45             | 2.91          | -       | 27.49      | 3.34       | -          |  |  |  |
| PK   | 2.4636G      | 106.96            | Inf               | -Inf           | 75.98         | 3           | Horizontal | 45             | 2.91          | -       | 27.60      | 3.38       | -          |  |  |  |
| AV   | 2.464G       | 96.66             | Inf               | -Inf           | 65.67         | 3           | Horizontal | 45             | 2.91          | -       | 27.60      | 3.39       | -          |  |  |  |
| PK   | 2.4844G      | 64.79             | 74.00             | -9.21          | 33.75         | 3           | Horizontal | 45             | 2.91          | -       | 27.64      | 3.40       | -          |  |  |  |
| AV   | 2.4835G      | 47.85             | 54.00             | -6.15          | 16.81         | 3           | Horizontal | 45             | 2.91          | -       | 27.64      | 3.40       | -          |  |  |  |

## 2.4-2.4835GHz\_802.11n\_HT20\_Nss1,(MCS0)\_1TX

### 2462MHz\_TX

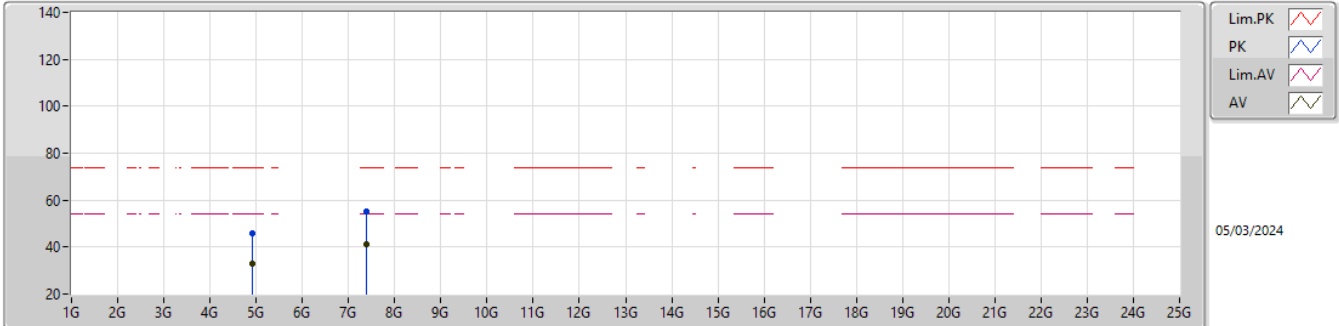


EUT\_X\_1TX  
Setting 14  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|--|--|--|
| PK   | 4.92136G     | 46.05             | 74.00             | -27.95         | 40.89         | 3           | Vertical  | 30             | 2.79          | -       | 32.64      | 5.76       | 33.24      |  |  |  |
| AV   | 4.92128G     | 32.63             | 54.00             | -21.37         | 27.47         | 3           | Vertical  | 30             | 2.79          | -       | 32.64      | 5.76       | 33.24      |  |  |  |
| PK   | 7.3894G      | 57.67             | 74.00             | -16.33         | 47.44         | 3           | Vertical  | 173            | 2.31          | -       | 37.20      | 7.16       | 34.13      |  |  |  |
| AV   | 7.38392G     | 42.11             | 54.00             | -11.89         | 31.87         | 3           | Vertical  | 173            | 2.31          | -       | 37.20      | 7.16       | 34.12      |  |  |  |

### 2.4-2.4835GHz\_802.11n HT20\_Nss1,(MCS0)\_1TX

#### 2462MHz\_TX



EUT\_X\_1TX  
Setting 14  
04-C-G-5

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |  |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|--|--|--|--|
| PK   | 4.92228G     | 45.85             | 74.00             | -28.15         | 40.69         | 3           | Horizontal | 252            | 1.19          | -       | 32.64      | 5.76       | 33.24      |  |  |  |  |
| AV   | 4.91876G     | 32.90             | 54.00             | -21.10         | 27.74         | 3           | Horizontal | 252            | 1.19          | -       | 32.64      | 5.76       | 33.24      |  |  |  |  |
| PK   | 7.387G       | 54.92             | 74.00             | -19.08         | 44.68         | 3           | Horizontal | 202            | 1.00          | -       | 37.20      | 7.16       | 34.12      |  |  |  |  |
| AV   | 7.3878G      | 40.97             | 54.00             | -13.03         | 30.74         | 3           | Horizontal | 202            | 1.00          | -       | 37.20      | 7.16       | 34.13      |  |  |  |  |