

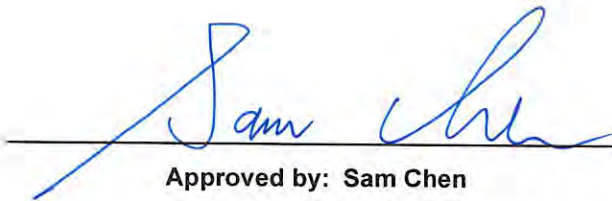


# RADIO TEST REPORT

FCC ID : 2AYRA-08449  
Equipment : Linksys Velop Micro-Mesh 6  
Brand Name : Linksys  
Model Name : LN1200 v2, LN1210 v2, LN1215 v2  
Applicant : Linksys USA, Inc.  
121 Theory, Irvine, CA. 92617, USA  
Standard : 47 CFR FCC Part 15.247

The product was received on Jan. 02, 2024, and testing was started from Jan. 02, 2024 and completed on Feb. 21, 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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TEL : 886-3-656-9065  
FAX : 886-3-656-9085  
Report Template No.: CB-A10\_5 Ver1.3



## Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items                                          | Result (PASS/FAIL) | Remark |
|---------------|-----------------|-----------------------------------------------------|--------------------|--------|
| 1.1.2         | 15.203          | Antenna Requirement                                 | PASS               | -      |
| 3.1           | 15.207          | AC Power-line Conducted Emissions                   | PASS               | -      |
| 3.2           | 15.247(a)       | 20dB Bandwidth                                      | PASS               | -      |
| 3.2           | 15.247(a)       | Carrier Frequency Separation                        | PASS               | -      |
| 3.3           | 15.247(b)       | Maximum Conducted Output Power                      | PASS               | -      |
| 3.4           | 15.247(a)       | Number of Hopping Frequencies and Hopping Band edge | PASS               | -      |
| 3.5           | 15.247(a)       | Time of Occupancy (Dwell Time)                      | PASS               | -      |
| 3.6           | 15.247(d)       | Emissions in Non-restricted Frequency Bands         | PASS               | -      |
| 3.7           | 15.247(d)       | Emissions in Restricted Frequency Bands             | PASS               | -      |

**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: Cathy Chiu**



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| Frequency Range (MHz) | Bluetooth Version | Ch. Frequency (MHz) | Channel Number |
|-----------------------|-------------------|---------------------|----------------|
| 2400-2483.5           | BR / EDR          | 2402-2480           | 0-78 [79]      |

| Band          | Mode          | BWch (MHz) | Nant |
|---------------|---------------|------------|------|
| 2.4-2.4835GHz | BT-BR(1Mbps)  | 1          | 1TX  |
| 2.4-2.4835GHz | BT-EDR(2Mbps) | 1          | 1TX  |
| 2.4-2.4835GHz | BT-EDR(3Mbps) | 1          | 1TX  |

Note:

- ♦ Bluetooth BR uses a GFSK (1Mbps).
- ♦ Bluetooth EDR uses a combination of  $\pi/4$ -DQPSK (2Mbps) and 8DPSK (3Mbps).
- ♦ Bluetooth BR/EDR uses as a system using FHSS modulation.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

| Ant. | Port   |      |           | Brand      | Model Name      | Antenna Type     | Connector | Gain (dBi) |
|------|--------|------|-----------|------------|-----------------|------------------|-----------|------------|
|      | 2.4GHz | 5GHz | Bluetooth |            |                 |                  |           |            |
| 1    | 1      | 1    | -         | GALTRONICS | 02102140-08042C | PCB Antenna      | U.FL      | Note1      |
| 2    | 2      | -    | -         | GALTRONICS | 02036073-07315  | Embedded Antenna | N/A       |            |
| 3    | -      | 2    | -         | GALTRONICS | 02102142-08042C | PCB Antenna      | U.FL      |            |
| 4    | -      | -    | 1         | GALTRONICS | 02036073-07315  | Embedded Antenna | N/A       |            |

Note1:

| Ant. | Antenna Gain (dBi) |                     |                      |                      |                     |                     |           |
|------|--------------------|---------------------|----------------------|----------------------|---------------------|---------------------|-----------|
|      | WLAN<br>2.4GHz     | WLAN<br>5GHz UNII 1 | WLAN<br>5GHz UNII 2A | WLAN<br>5GHz UNII 2C | WLAN<br>5GHz UNII 3 | WLAN<br>5GHz UNII 4 | Bluetooth |
| 1    | 1.91               | 2.88                | 2.97                 | 3.29                 | 3.29                | 3.29                | -         |
| 2    | 2.50               | -                   | -                    | -                    | -                   | -                   | -         |
| 3    | -                  | 3.63                | 3.63                 | 3.12                 | 3.44                | 3.44                | -         |
| 4    | -                  | -                   | -                    | -                    | -                   | -                   | 3.53      |

Note 2: The above information was declared by manufacturer.

Note 3: Directional gain information

| Type   | Maximum Output Power                                                                                                                                | Power Spectral Density                                                                                                              |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Non-BF | Directional gain = Max.gain + array gain.<br>For power measurements on IEEE 802.11 devices<br>Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4 | $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left( \sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$ |
| BF     | $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left( \sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$                 | $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left( \sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$ |

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left( \sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

$$2.4G \ G1 = 1.91 \text{ dBi} ; G2 = 2.50 \text{ dBi} ;$$

$$5G \ UNII-1 \ G1 = 2.88 \text{ dBi} ; G2 = 3.63 \text{ dBi} ;$$

$$5G \ UNII-2A \ G1 = 2.97 \text{ dBi} ; G2 = 3.63 \text{ dBi} ;$$

$$5G \ UNII-2C \ G1 = 3.29 \text{ dBi} ; G2 = 3.12 \text{ dBi} ;$$

$$5G \ UNII-3 \ G1 = 3.29 \text{ dBi} ; G2 = 3.44 \text{ dBi} ;$$

$$5G \ UNII-4 \ G1 = 3.29 \text{ dBi} ; G2 = 3.44 \text{ dBi} ;$$

$$2.4G \ DG = 5.22 \text{ dBi}$$

$$5G \ UNII-1 \ DG = 6.27 \text{ dBi}$$

$$5G \ UNII-2A \ DG = 6.32 \text{ dBi}$$

$$5G \ UNII-2C \ DG = 6.22 \text{ dB}$$

$$5G \ UNII-3 \ DG = 6.38 \text{ dBi}$$

$$5G \ UNII-4 \ DG = 6.38 \text{ dBi}$$

#### <For 2.4GHz function>

##### For IEEE 802.11b/g/n/VHT/ax (2TX/2RX):

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

Port 1 and Port 2 could transmit/receive simultaneously.

##### <For 5GHz function>

##### For IEEE 802.11a/n/ac/ax (2TX/2RX):

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

Port 1 and Port 2 could transmit/receive simultaneously.

##### <For Bluetooth function> (1TX/1RX):

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

Port 1 could transmit/receive simultaneously.

**1.1.3 Mode Test Duty Cycle**

| Mode          | DC    | DCF(dB) | T(s)   | VBW(Hz) $\geq 1/T$ |
|---------------|-------|---------|--------|--------------------|
| BT-BR(1Mbps)  | 0.784 | 1.06    | 2.888m | 1k                 |
| BT-EDR(2Mbps) | 0.742 | 1.3     | 2.889m | 1k                 |
| BT-EDR(3Mbps) | 0.785 | 1.05    | 2.891m | 1k                 |

Note:

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

**1.1.4 EUT Operational Condition**

|                              |                    |
|------------------------------|--------------------|
| <b>EUT Power Type</b>        | From Power Adapter |
| <b>Test Software Version</b> | QRCT V4.0.00192.0  |

**1.1.5 Table for Multiple Listing**

The model names in the following table are all refer to the identical product.

| Model Name | Description    |
|------------|----------------|
| LN1200 v2  | For retail     |
| LN1210 v2  | For e-commerce |
| LN1215 v2  | For Warehouse  |

Note 1: From the above models, model: LN1200 v2 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

**1.1.6 Table for EUT Information**

| EUT   | Description               |
|-------|---------------------------|
| EUT 1 | With Conductive Fabric    |
| EUT 2 | Without Conductive Fabric |

Note 1: From the above EUTs, EUT 1 was selected as representative EUT for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

**1.1.7 Table for EUT Supports Function**

| Function |
|----------|
| AP       |
| Mesh     |

Note 1: For above table list, only AP mode was tested and recorded in this test.

Note 2: 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

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

- ♦ FCC KDB 558074 D01 v05r02
- ♦ 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 ISED.                            |  |  |  |  |

| Test Condition           | Test Site No. | Test Engineer | Test Environment<br>(°C / %) | Test Date                       |
|--------------------------|---------------|---------------|------------------------------|---------------------------------|
| RF Conducted             | TH03-CB       | Owen Hsu      | 21.5~22.9 / 65~68            | Jan. 11, 2024~<br>Jan. 29, 2024 |
| Radiated<br>(Below 1GHz) | 03CH04-CB     | Mark Hsu      | 22.7-23.8 / 56-59            | Feb. 21, 2024                   |
| Radiated<br>(Above 1GHz) | 03CH01-CB     | Mark Hsu      | 21.6-22.7 / 56-59            | Jan. 02, 2024~<br>Jan. 27, 2024 |
|                          | 03CH05-CB     | Mark Hsu      | 21.9-22.4 / 55-58            | Jan. 02, 2024~<br>Jan. 27, 2024 |
| AC Conduction            | CO01-CB       | Summer Li     | 22~23 / 50~51                | Jan. 23, 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                   |
|--------------------------------------|-------------|--------------------------|
| Conducted Emission (150kHz ~ 30MHz)  | 3.4 dB      | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz)     | 3.7 dB      | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 5.1 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          |
|---------------|
| BT-BR(1Mbps)  |
| 2402MHz       |
| 2440MHz       |
| 2480MHz       |
| BT-EDR(2Mbps) |
| 2402MHz       |
| 2440MHz       |
| 2480MHz       |
| BT-EDR(3Mbps) |
| 2402MHz       |
| 2440MHz       |
| 2480MHz       |

## 2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests                           |                                                                                         |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                                             | AC power-line conducted emissions                                                       |
| <b>Condition</b>                                                              | AC power-line conducted measurement for line and neutral<br>Test Voltage: 120Vac / 60Hz |
| <b>Operating Mode</b>                                                         | Normal Link                                                                             |
| 1                                                                             | EUT 1 + Adapter 1                                                                       |
| 2                                                                             | EUT 1 + Adapter 2                                                                       |
| 3                                                                             | EUT 1 + Adapter 3 + US Plug                                                             |
| For operating mode 2 is the worst case and it was record in this test report. |                                                                                         |

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                                                                        |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | 20dB Bandwidth<br>Carrier Frequency Separation<br>Maximum Conducted Output Power<br>Number of Hopping Frequencies<br>Hopping Bandedge<br>Time of Occupancy (Dwell Time)<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                                                                                                                                                                                                                                                 |
| After evaluating, and the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report. |                                                                                                                                                                                                                                                     |
| 1                                                                                                                                           | EUT 1 in Z axis + WLAN 2.4GHz + Adapter 1                                                                                                                                                                                                           |
| 2                                                                                                                                           | EUT 1 in Z axis + WLAN 2.4GHz + Adapter 2                                                                                                                                                                                                           |
| 3                                                                                                                                           | EUT 1 in Z axis + WLAN 2.4GHz + Adapter 3 + US Plug                                                                                                                                                                                                 |
| Mode 1 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 ~ 5 will follow this same test mode.             |                                                                                                                                                                                                                                                     |
| 4                                                                                                                                           | EUT 1 in Z axis + WLAN 5GHz + Adapter 1                                                                                                                                                                                                             |
| 5                                                                                                                                           | EUT 1 in Z axis + Bluetooth + Adapter 1                                                                                                                                                                                                             |
| For operating mode 4 is the worst case and it was record in this test report.                                                               |                                                                                                                                                                                                                                                     |



|                                                                                                                                             |                 |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>Operating Mode &gt; 1GHz</b>                                                                                                             | CTX             |
| After evaluating, and the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report. |                 |
| 1                                                                                                                                           | EUT 1 in Z axis |

| <b>The Worst Case Mode for Following Conformance Tests</b>                         |                                                                         |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>Tests Item</b>                                                                  | Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation |
| <b>Operating Mode</b>                                                              |                                                                         |
| 1                                                                                  | WLAN 2.4GHz + WLAN 5GHz + Bluetooth                                     |
| Refer to Sporton Test Report No.: FA3D2301 for Co-location RF Exposure Evaluation. |                                                                         |

## 2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

## 2.4 Accessories

| <b>Accessories</b>                        |                   |                       |                                                        |
|-------------------------------------------|-------------------|-----------------------|--------------------------------------------------------|
| <b>Equipment Name</b>                     | <b>Brand Name</b> | <b>Model Name</b>     | <b>Rating</b>                                          |
| Adapter 1                                 | Ktec              | KSA-18W-050300VU      | INPUT: 100-240V~50/60Hz, 0.5A<br>OUTPUT: 5.0V, 3.0A    |
| Adapter 2                                 | MOSO              | MSA-C3000IC5.0-18P-US | INPUT: 100-240V~50/60Hz, 0.7A max.<br>OUTPUT: 5.0V, 3A |
| Adapter 3                                 | Ktec              | KSA-18W-050300D5      | INPUT: 100-240V ~ 50/60Hz, 0.5A<br>OUTPUT: 5.0V, 3.0A  |
| <b>Other</b>                              |                   |                       |                                                        |
| US Plug*1 (Equip with Adapter 3 use only) |                   |                       |                                                        |



## 2.5 Support Equipment

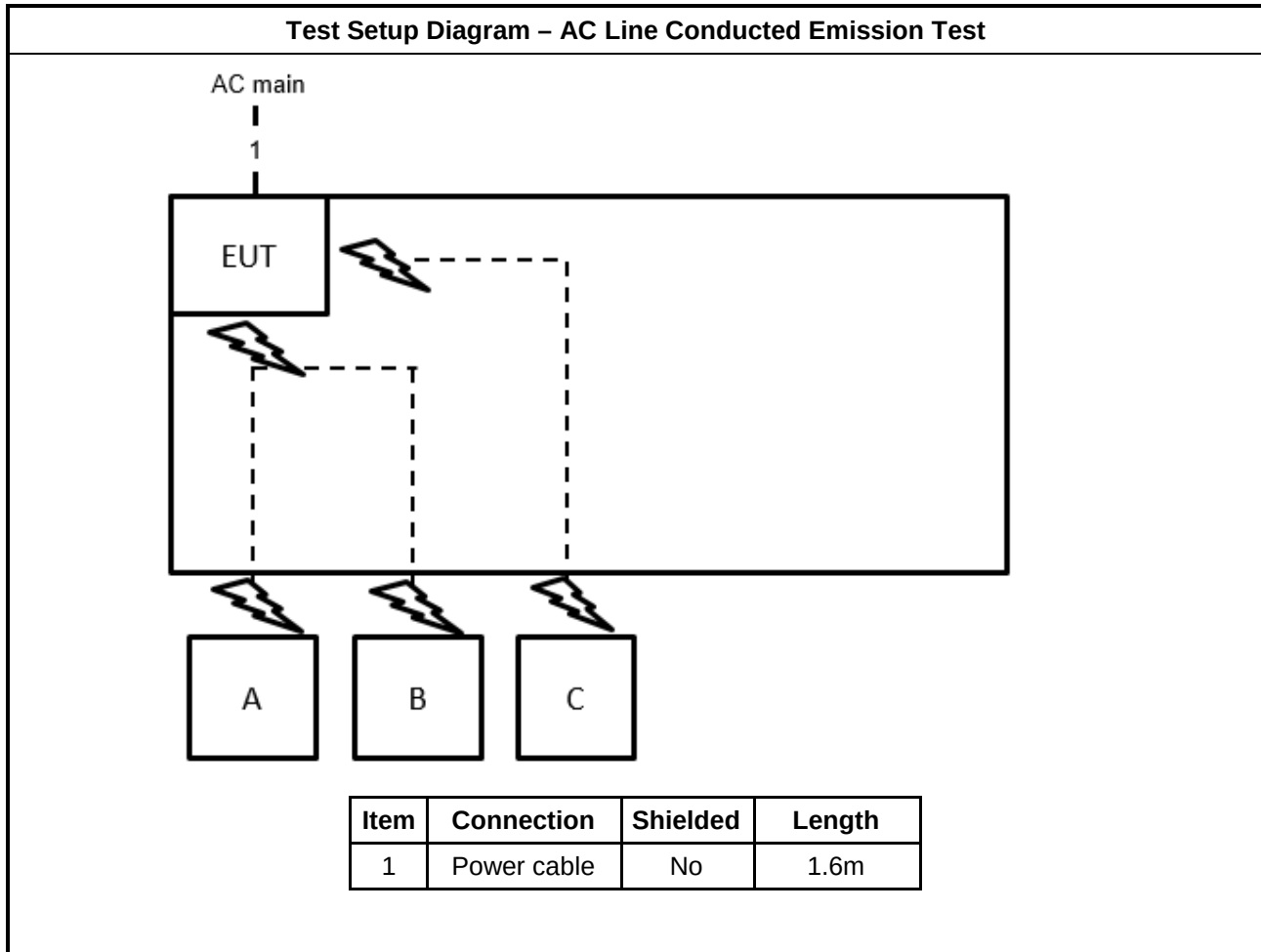
**For AC Conduction:**

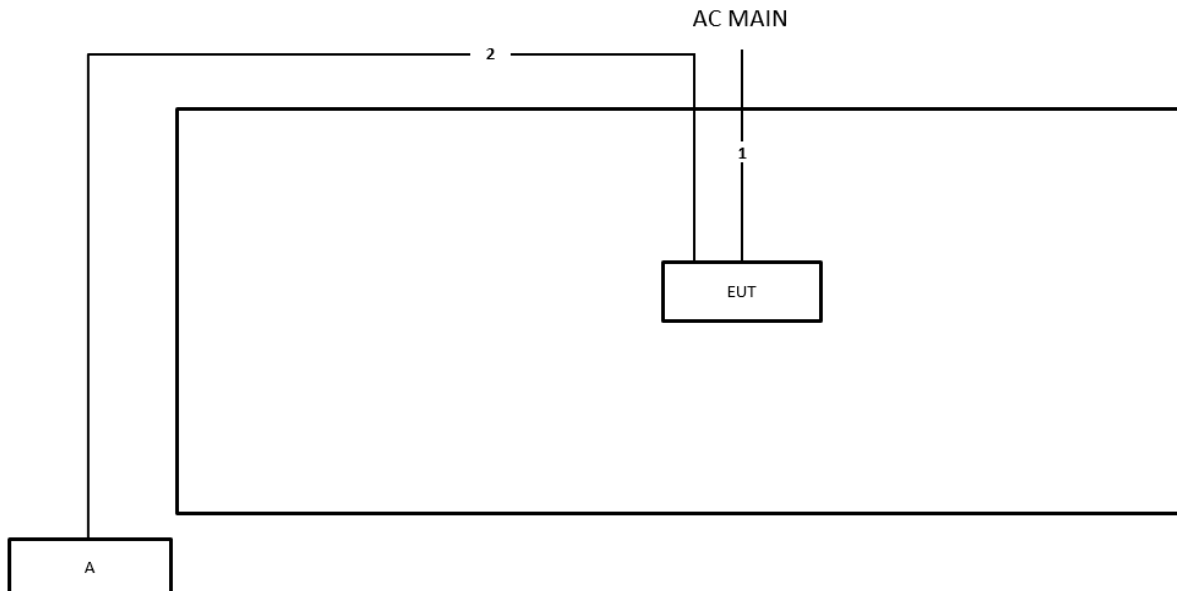
| Support Equipment |             |            |            |        |
|-------------------|-------------|------------|------------|--------|
| No.               | Equipment   | Brand Name | Model Name | FCC ID |
| A                 | 2.4G NB     | DELL       | E6220      | N/A    |
| B                 | 5G NB       | DELL       | E6220      | N/A    |
| C                 | Smart phone | Samsung    | Galaxy J2  | N/A    |

**For Radiated and RF Conducted:**

| Support Equipment |           |            |            |        |
|-------------------|-----------|------------|------------|--------|
| No.               | Equipment | Brand Name | Model Name | FCC ID |
| A                 | Notebook  | DELL       | E4300      | N/A    |

## 2.6 Test Setup Diagram



**Test Setup Diagram - Radiated Test**


| Item | Connection  | Shielded | Length |
|------|-------------|----------|--------|
| 1    | Power cable | No       | 1.6m   |
| 2    | RJ-45 cable | No       | 10m    |



### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

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

| AC Power-line Conducted Emissions Limit                  |            |           |
|----------------------------------------------------------|------------|-----------|
| Frequency Emission (MHz)                                 | Quasi-Peak | Average   |
| 0.15-0.5                                                 | 66 - 56 *  | 56 - 46 * |
| 0.5-5                                                    | 56         | 46        |
| 5-30                                                     | 60         | 50        |
| Note 1: * Decreases with the logarithm of the frequency. |            |           |

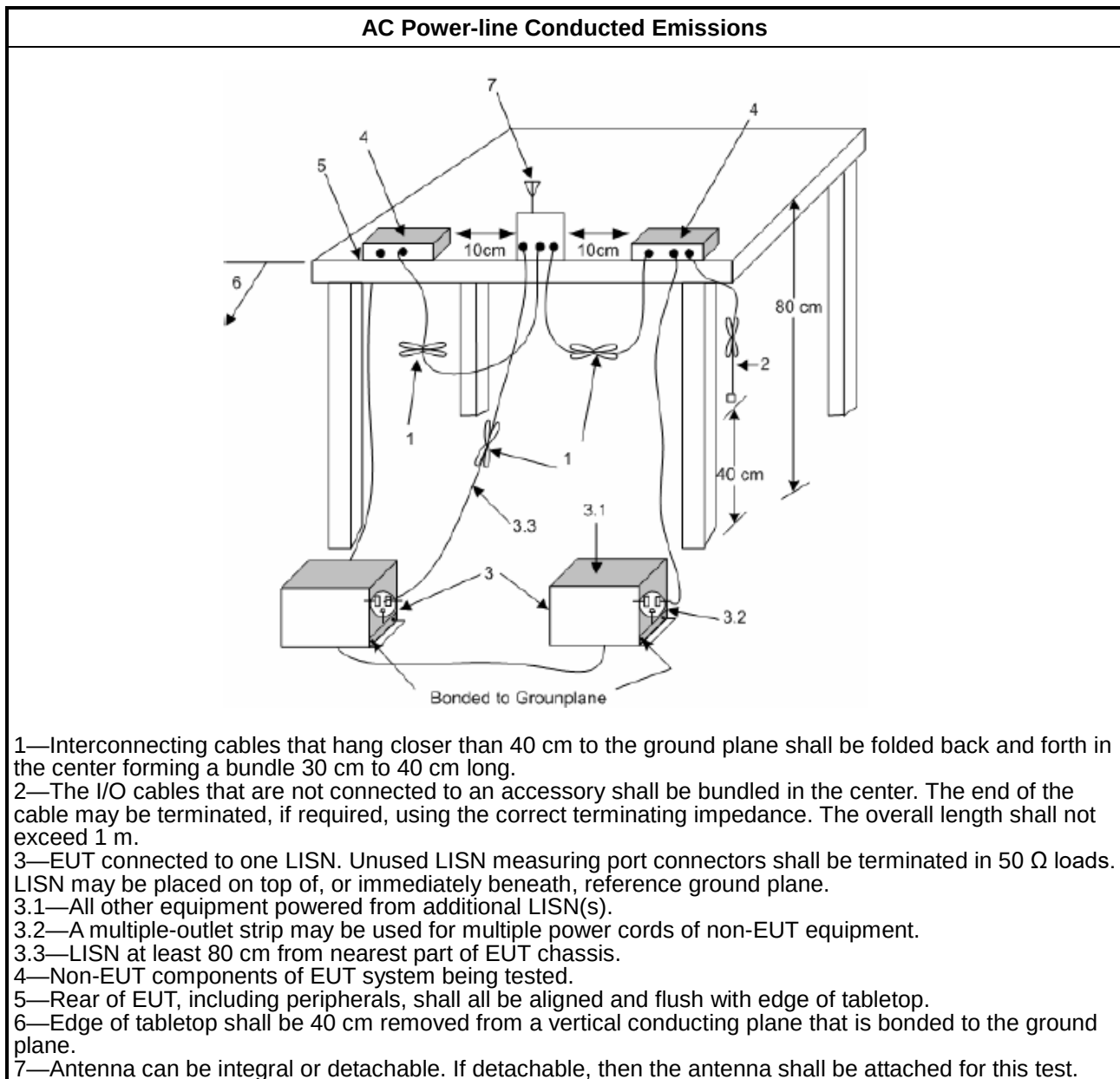
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

| Test Method                                                                    |
|--------------------------------------------------------------------------------|
| ▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions. |

### 3.1.4 Test Setup



### 1.1.1. Measurement Results Calculation

The measured Level is calculated using:

- a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- b. Margin = -Limit + Level

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

Refer as Appendix A

## 3.2 20dB Bandwidth and Carrier Frequency Separation

### 3.2.1 20dB Bandwidth and Carrier Frequency Separation Limit

| 20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems |                                                                                                      |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| ▪ 902-928 MHz Band:                                                                 |                                                                                                      |
|                                                                                     | ▪ $N \geq 50$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 250 kHz.   |
|                                                                                     | ▪ $50 > N \geq 25$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz. |
| ▪ 2400-2483.5 MHz Band:                                                             |                                                                                                      |
|                                                                                     | ▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz).                                   |
|                                                                                     | ▪ $75 > N \geq 15$ and $ChS \geq \text{MAX}$ (20 dB bandwidth 2/3, 25 kHz).                          |
| ▪ 5725-5850 MHz Band:                                                               |                                                                                                      |
|                                                                                     | ▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 1 MHz.     |
| N: Number of Hopping Frequencies; ChS: Hopping Channel Separation                   |                                                                                                      |

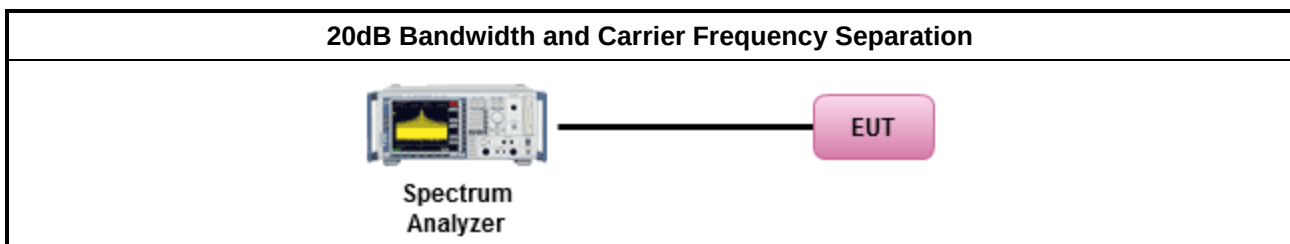
### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

| Test Method                                                                             |
|-----------------------------------------------------------------------------------------|
| ▪ Refer as ANSI C63.10-2013, clause 6.9.1 for 20 dB bandwidth measurement.              |
| ▪ Refer as ANSI C63.10-2013, clause 7.8.2 for carrier frequency separation measurement. |

### 3.2.4 Test Setup



### 3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

### 3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit         |  |
|----------------------------------------------|--|
| ▪ 902-928 MHz Band:                          |  |
| ▪ N ≥ 50; Power 30dBm; EIRP 36dBm            |  |
| ▪ 50 > N ≥ 25; Power 23.98dBm; EIRP 29.98dBm |  |
| ▪ 2400-2483.5 MHz Band:                      |  |
| ▪ N ≥ 75; Power 30dBm; EIRP 36dBm            |  |
| ▪ 75 > N ≥ 15; Power 21dBm; EIRP 27dBm       |  |
| ▪ 5725-5850 MHz Band:                        |  |
| ▪ N ≥ 75; Power 30dBm; EIRP 36dBm            |  |
| N: Number of Hopping Frequencies             |  |

#### 3.3.2 Measuring Instruments

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

#### 3.3.3 Test Procedures

| Test Method                                                             |
|-------------------------------------------------------------------------|
| ▪ Refer as ANSI C63.10-2013, clause 7.8.5 for output power measurement. |

#### 3.3.4 Test Setup

| Maximum Conducted Output Power (Peak Power Meter)                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>The diagram illustrates the test setup for measuring Maximum Conducted Output Power. It shows a Power Meter (a blue and white device with a screen and buttons) connected via a black cable to an EUT (Equipment Under Test), which is represented by a pink rectangular block labeled 'EUT'.</p> |

#### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

### 3.4 Number of Hopping Frequencies and Hopping Bandedge

#### 3.4.1 Number of Hopping Frequencies Limit

| Number of Hopping Frequencies Limit                                |                                                                                               |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| ▪ 902-928 MHz Band:                                                |                                                                                               |
|                                                                    | ▪ $N \geq 50$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 250 kHz.   |
|                                                                    | ▪ $50 > N \geq 25$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz. |
| ▪ 2400-2483.5 MHz Band:                                            |                                                                                               |
|                                                                    | ▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).                                   |
|                                                                    | ▪ $75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).                          |
| ▪ 5725-5850 MHz Band:                                              |                                                                                               |
|                                                                    | ▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 1 MHz.     |
| N: Number of Hopping Frequencies; ChS : Hopping Channel Separation |                                                                                               |

#### 3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

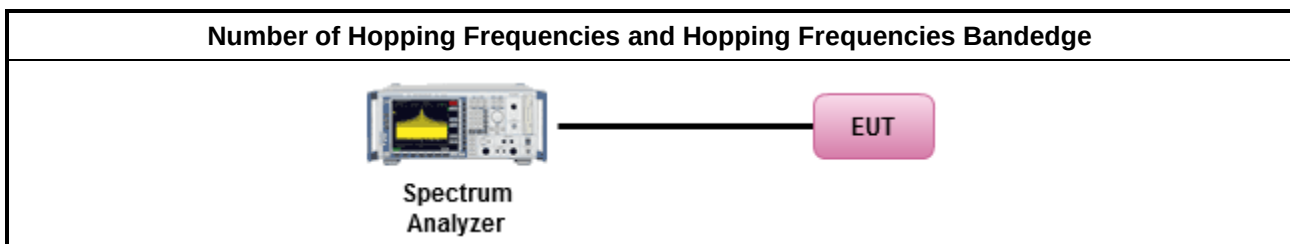
#### 3.4.3 Measuring Instruments

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

#### 3.4.4 Test Procedures

| Test Method                                                                              |
|------------------------------------------------------------------------------------------|
| ▪ Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement. |
| ▪ Refer as ANSI C63.10-2013, clause 7.8.6 for hopping frequencies Bandedge measurement.  |

#### 3.4.5 Test Setup



#### 3.4.6 Test Result of Number of Hopping Frequencies

Refer as Appendix D

#### 3.4.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix D

### 3.5 Time of Occupancy (Dwell Time)

#### 3.5.1 Time of Occupancy (Dwell Time) Limit

| 20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems |                                                    |
|-------------------------------------------------------------------------------------|----------------------------------------------------|
| ▪ 902-928 MHz Band:                                                                 |                                                    |
|                                                                                     | ▪ $N \geq 50$ ; 0.4s in 20s period                 |
|                                                                                     | ▪ $50 > N \geq 25$ ; 0.4s in 10s period            |
| ▪ 2400-2483.5 MHz Band:                                                             |                                                    |
|                                                                                     | ▪ $N \geq 75$ ; 0.4s in $N \times 0.4$ period      |
|                                                                                     | ▪ $75 > N \geq 15$ ; 0.4s in $N \times 0.4$ period |
| ▪ 5725-5850 MHz Band:                                                               |                                                    |
|                                                                                     | ▪ $N \geq 75$ ; 0.4s in 30s period                 |
| N: Number of Hopping Frequencies                                                    |                                                    |

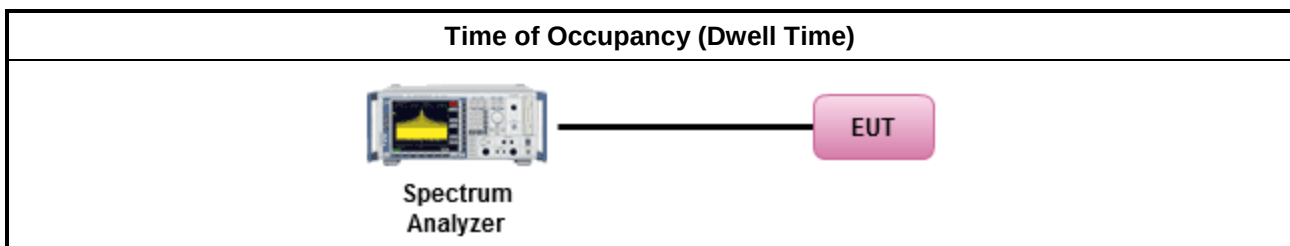
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

| Test Method                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ▪ Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement.                                                                    |                                                                                                                                                                                                                                                                                                                                                  |
| ▪ Bluetooth ACL packets can be 1, 3, or 5 time slots. Following as dwell time. Operate DH5 at maximum dwell time and maximum duty cycle. |                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                          | ▪ The DH5 packet can cover up to 5 time slots. Operate DH5 at maximum dwell time and maximum duty cycle. A maximum length packet has duration of 5 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is $5/1600$ seconds, or 3.125ms. DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel. |

#### 3.5.4 Test Setup



#### 3.5.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

### 3.6 Emissions in Non-restricted Frequency Bands

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

| Un-restricted Band Emissions Limit                                                                                                                                                                                                                                                                                                            |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| RF output power procedure                                                                                                                                                                                                                                                                                                                     | Limit (dBc) |
| Peak output power procedure                                                                                                                                                                                                                                                                                                                   | 20          |
| 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. |             |

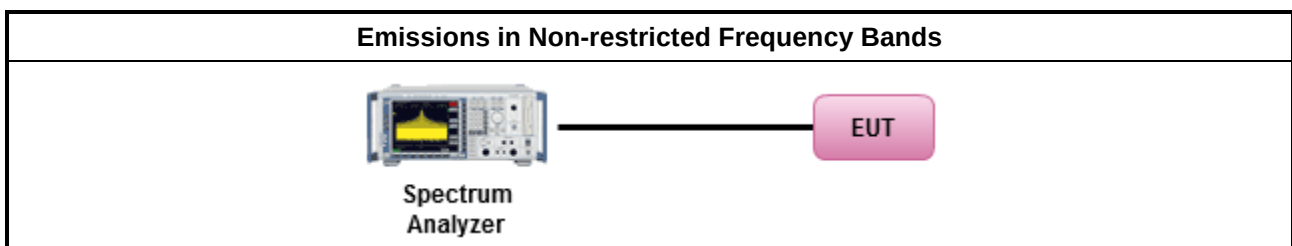
#### 3.6.2 Measuring Instruments

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

#### 3.6.3 Test Procedures

| Test Method                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 7.8.8 for unwanted emissions into non-restricted bands.</li> </ul> |

#### 3.6.4 Test Setup



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

Refer as Appendix F



### 3.7 Emissions in Restricted Frequency Bands

#### 3.7.1 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.

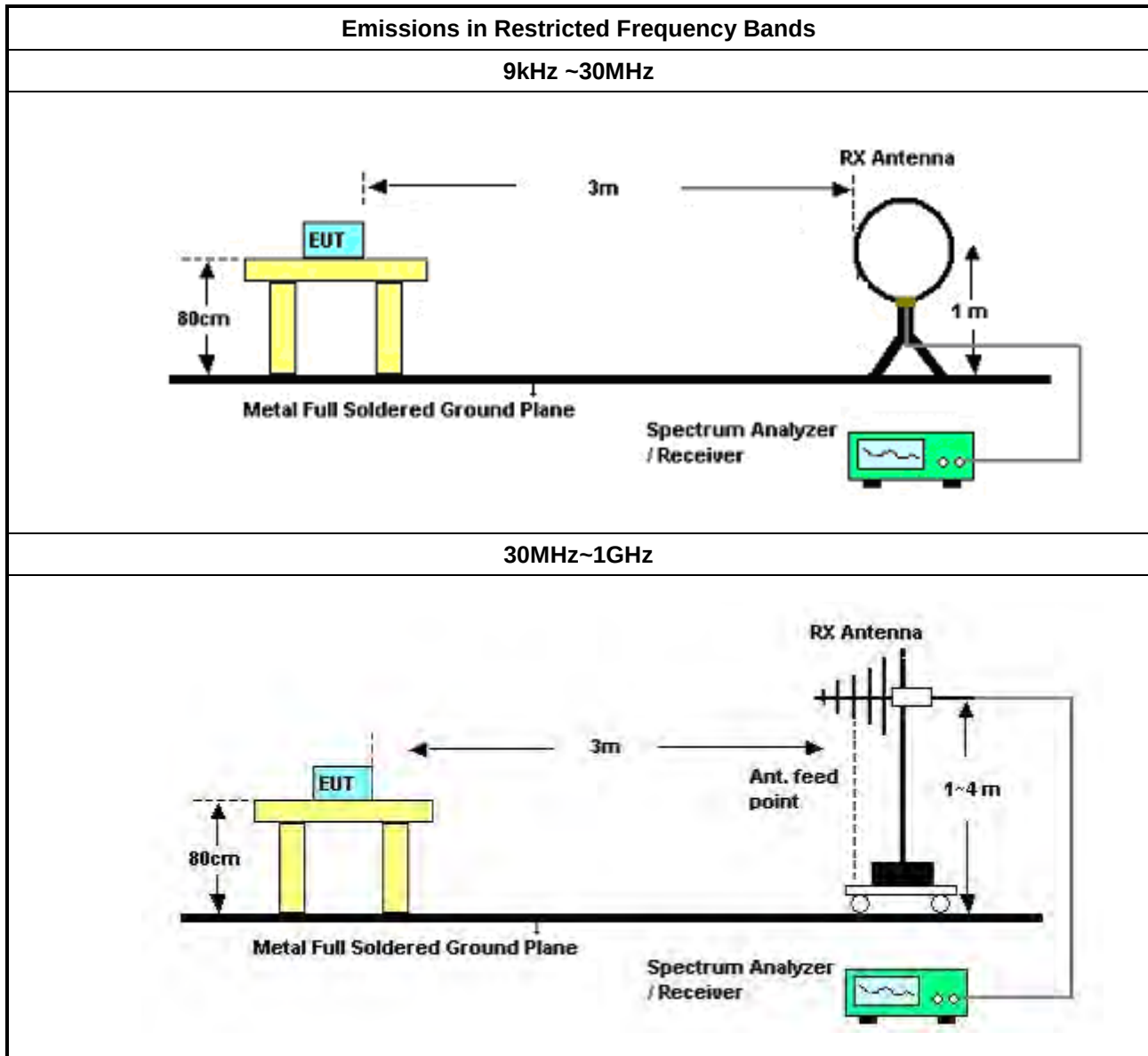
#### 3.7.2 Measuring Instruments

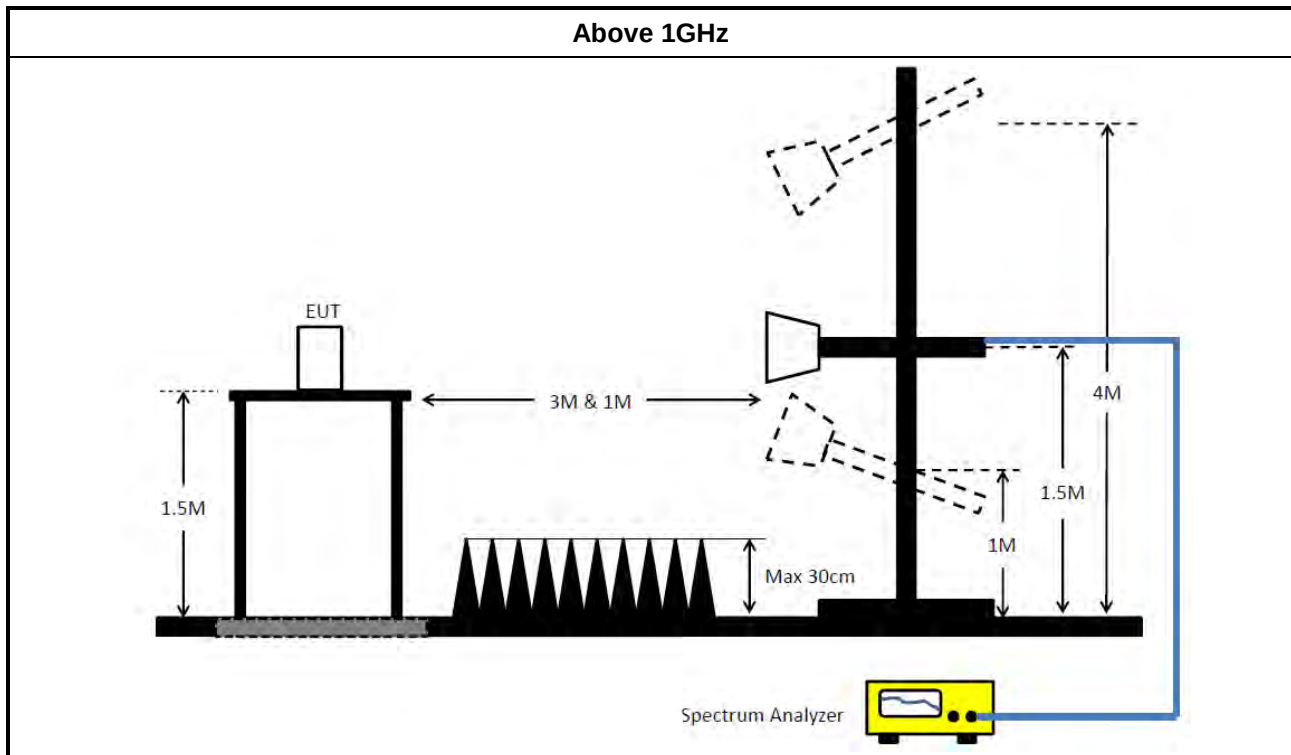
Refer a test equipment and calibration data table in this test report.

#### 3.7.3 Test Procedures

| Test Method                                                                                                                                                                 |                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ▪ The average emission levels shall be measured in [hopping 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 ANSI C63.10, clause 4.1.4.2.1 QP value.                                  |
|                                                                                                                                                                             | ▪ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.                |
|                                                                                                                                                                             | ▪ Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions. |

### 3.7.4 Test Setup





### 3.7.5 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.

### 3.7.6 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.

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

Refer as Appendix G



## 4 Test Equipment and Calibration Data

| Instrument                         | Brand            | Model No.         | Serial No.       | Characteristics | Calibration Date | Calibration Due Date | Remark                |
|------------------------------------|------------------|-------------------|------------------|-----------------|------------------|----------------------|-----------------------|
| EMI Receiver                       | Agilent          | N9038A            | My52260123       | 9kHz ~ 8.4GHz   | Feb. 20, 2023    | Feb. 19, 2024        | Conduction (CO01-CB)  |
| LISN                               | F.C.C.           | FCC-LISN-5 0-16-2 | 04083            | 150kHz ~ 100MHz | Feb. 16, 2023    | Feb. 15, 2024        | Conduction (CO01-CB)  |
| LISN                               | Schwarzbeck      | NSLK 8127         | 8127647          | 9kHz ~ 30MHz    | Apr. 27, 2023    | Apr. 26, 2024        | Conduction (CO01-CB)  |
| Pulse Limiter                      | Rohde&Schwarz    | ESH3-Z2           | 100430           | 9kHz ~ 30MHz    | Feb. 09, 2023    | Feb. 08, 2024        | Conduction (CO01-CB)  |
| COND Cable                         | Woken            | Cable             | Low cable-CO01   | 9kHz ~ 30MHz    | Oct. 17, 2023    | Oct. 16, 2024        | Conduction (CO01-CB)  |
| Software                           | SPORTON          | SENSE             | V5.10            | -               | N.C.R.           | N.C.R.               | Conduction (CO01-CB)  |
| Loop Antenna                       | Teseq            | HLA 6121          | 65417            | 9kHz - 30 MHz   | Oct. 13, 2023    | Oct. 12, 2024        | Radiation (03CH04-CB) |
| 3m Semi Anechoic Chamber NSA       | TDK              | SAC-3M            | 03CH04-CB        | 30 MHz ~ 1 GHz  | Aug. 01, 2023    | Jul. 31, 2024        | Radiation (03CH04-CB) |
| BILOG ANTENNA with 6 dB attenuator | Schaffner & EMCI | CBL6112B & N-6-06 | 22021&AT-N06 07  | 30MHz ~ 1GHz    | Oct. 07, 2023    | Oct. 06, 2024        | Radiation (03CH04-CB) |
| Pre-Amplifier                      | EMCI             | EMC330N           | 980391           | 20MHz ~ 3GHz    | May 23, 2023     | May 22, 2024         | Radiation (03CH04-CB) |
| Spectrum Analyzer                  | R&S              | FSP40             | 100142           | 9kHz~40GHz      | Mar. 21, 2023    | Mar. 20, 2024        | Radiation (03CH04-CB) |
| EMI Test Receiver                  | R&S              | ESCS              | 826547/017       | 9kHz ~ 2.75GHz  | Jun. 13, 2023    | Jun. 12, 2024        | Radiation (03CH04-CB) |
| RF Cable-low                       | Woken            | RG402             | Low Cable-03+67  | 30MHz ~ 1GHz    | Oct. 02, 2023    | Oct. 01, 2024        | Radiation (03CH04-CB) |
| Test Software                      | SPORTON          | SENSE             | V5.10            | -               | N.C.R.           | N.C.R.               | Radiation (03CH04-CB) |
| 3m Semi Anechoic Chamber VSWR      | TDK              | SAC-3M            | 03CH01-CB        | 1GHz ~18GHz 3m  | May 05, 2023     | May 04, 2024         | Radiation (03CH01-CB) |
| Horn Antenna                       | SCHWARZBECK      | BBHA 9120 D       | BBHA 9120D-01816 | 1GHz~18GHz      | Dec. 20, 2023    | Dec. 19, 2024        | Radiation (05CH01-CB) |
| Horn Antenna                       | Schwarzbeck      | BBHA 9170         | BBHA9170252      | 15GHz ~ 40GHz   | Sep. 04, 2023    | Sep. 03, 2024        | Radiation (03CH01-CB) |
| Pre-Amplifier                      | Agilent          | 8449B             | 3008A02121       | 1GHz ~ 26.5GHz  | May 18, 2023     | May 17, 2024         | Radiation (03CH01-CB) |
| Signal Analyzer                    | R&S              | FSV3044           | 101437           | 10kHz ~ 44GHz   | Nov. 28, 2023    | Nov. 27, 2024        | Radiation (03CH01-CB) |
| RF Cable-high                      | Woken            | RG402             | High Cable-16    | 1 GHz ~ 18 GHz  | Nov. 06, 2023    | Nov. 05, 2024        | Radiation (03CH01-CB) |



| Instrument                    | Brand       | Model No.   | Serial No.       | Characteristics | Calibration Date | Calibration Due Date | Remark                |
|-------------------------------|-------------|-------------|------------------|-----------------|------------------|----------------------|-----------------------|
| RF Cable-high                 | Woken       | RG402       | High Cable-16+17 | 1 GHz ~ 18 GHz  | Nov. 06, 2023    | Nov. 05, 2024        | Radiation (03CH01-CB) |
| High Cable                    | Woken       | WCA0929M    | 40G#5+6          | 1GHz ~ 40 GHz   | Dec. 06, 2023    | Dec. 05, 2024        | Radiation (03CH01-CB) |
| High Cable                    | Woken       | WCA0929M    | 40G#5            | 1GHz ~ 40 GHz   | Oct. 02, 2023    | Oct. 01, 2024        | Radiation (03CH01-CB) |
| High Cable                    | Woken       | WCA0929M    | 40G#6            | 1GHz ~ 40 GHz   | Oct. 02, 2023    | Oct. 01, 2024        | Radiation (03CH01-CB) |
| Test Software                 | SPORTON     | SENSE       | V5.10            | -               | N.C.R.           | N.C.R.               | Radiation (03CH01-CB) |
| 3m Semi Anechoic Chamber VSWR | TDK         | SAC-3M      | 03CH05-CB        | 1GHz ~18GHz 3m  | Sep. 29, 2023    | Sep. 28, 2024        | Radiation (03CH05-CB) |
| Horn Antenna                  | SCHWARZBECK | BBHA9120 D  | BBHA 9120 D-1291 | 1GHz~18GHz      | Jun. 08, 2023    | Jun. 07, 2024        | Radiation (03CH05-CB) |
| Horn Antenna                  | Schwarzbeck | BBHA 9170   | BBHA9170252      | 15GHz ~ 40GHz   | Sep. 04, 2023    | Sep. 03, 2024        | Radiation (03CH05-CB) |
| Pre-Amplifier                 | EMCI        | EMC12630 SE | 980287           | 1GHz ~ 26.5GHz  | Jun. 30, 2023    | Jun. 29, 2024        | Radiation (03CH05-CB) |
| Spectrum Analyzer             | R&S         | FSP40       | 100304           | 9kHz ~ 40GHz    | Apr. 18, 2023    | Apr. 17, 2024        | Radiation (03CH05-CB) |
| RF Cable-high                 | Woken       | RG402       | High Cable-28    | 1GHz~18GHz      | Oct. 02, 2023    | Oct. 01, 2024        | Radiation (03CH05-CB) |
| RF Cable-high                 | Woken       | RG402       | High Cable-04+28 | 1GHz~18GHz      | Oct. 02, 2023    | Oct. 01, 2024        | Radiation (03CH05-CB) |
| High Cable                    | Woken       | WCA0929M    | 40G#5+6          | 1GHz ~ 40 GHz   | Dec. 06, 2023    | Dec. 05, 2024        | Radiation (03CH05-CB) |
| High Cable                    | Woken       | WCA0929M    | 40G#5            | 1GHz ~ 40 GHz   | Oct. 02, 2023    | Oct. 01, 2024        | Radiation (03CH05-CB) |
| High Cable                    | Woken       | WCA0929M    | 40G#6            | 1GHz ~ 40 GHz   | Oct. 02, 2023    | Oct. 01, 2024        | Radiation (03CH05-CB) |
| Test Software                 | SPORTON     | SENSE       | V5.10            | -               | N.C.R.           | N.C.R.               | Radiation (03CH05-CB) |
| Spectrum analyzer             | R&S         | FSV40       | 101028           | 9kHz~40GHz      | Dec. 22, 2023    | Dec. 21, 2024        | Conducted (TH03-CB)   |
| Power Sensor                  | Anritsu     | MA2411B     | 1726195          | 300MHz~40GHz    | Sep. 04, 2023    | Sep. 03, 2024        | Conducted (TH03-CB)   |
| Power Meter                   | Anritsu     | ML2495A     | 1035008          | 300MHz~40GHz    | Sep. 04, 2023    | Sep. 03, 2024        | Conducted (TH03-CB)   |
| RF Cable                      | Woken       | RG402       | High Cable-11    | 30MHz ~18 GHz   | Oct. 02, 2023    | Oct. 01, 2024        | Conducted (TH03-CB)   |
| RF Cable                      | Woken       | RG402       | High Cable-12    | 30MHz ~18 GHz   | Oct. 02, 2023    | Oct. 01, 2024        | Conducted (TH03-CB)   |
| RF Cable                      | Woken       | RG402       | High Cable-13    | 30MHz ~18 GHz   | Oct. 02, 2023    | Oct. 01, 2024        | Conducted (TH03-CB)   |

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| Instrument    | Brand   | Model No. | Serial No.    | Characteristics | Calibration Date | Calibration Due Date | Remark              |
|---------------|---------|-----------|---------------|-----------------|------------------|----------------------|---------------------|
| RF Cable-high | Woken   | RG402     | High Cable-14 | 1 GHz –18 GHz   | Oct. 02, 2023    | Oct. 01, 2024        | Conducted (TH03-CB) |
| RF Cable-high | Woken   | RG402     | High Cable-15 | 1 GHz –18 GHz   | Oct. 02, 2023    | Oct. 01, 2024        | Conducted (TH03-CB) |
| Switch        | SPTCB   | SP-SWI    | SWI-03        | 1 ~26.5 GHz     | Oct. 03, 2023    | Oct. 02, 2024        | Conducted (TH03-CB) |
| Test Software | SPORTON | SENSE     | V5.10         | -               | N.C.R.           | N.C.R.               | Conducted (TH03-CB) |

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

NCR means Non-Calibration required.



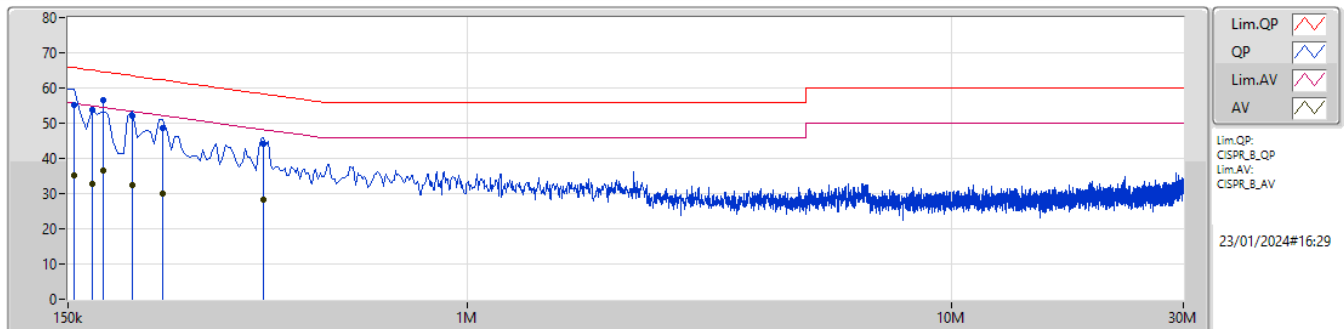
## Conducted Emissions at Powerline

## Appendix A

### Summary

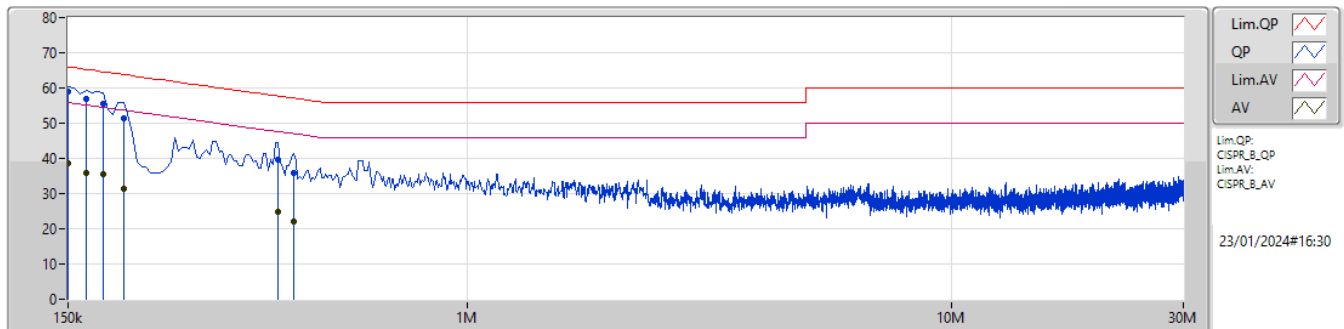
| Mode   | Result | Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Condition |
|--------|--------|------|--------------|-----------------|-----------------|----------------|-----------|
| Mode 2 | Pass   | QP   | 150k         | 59.04           | 66.00           | -6.96          | Neutral   |

### Mode 2



| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|--------------|------------|------------|--|--|--|--|--|--|
| QP   | 154.5k       | 55.34           | 65.75           | -10.41         | 9.98           | Line      | -       | 45.36         | 0.09         | 0.02       | 9.87       |  |  |  |  |  |  |
| AV   | 154.5k       | 35.07           | 55.75           | -20.68         | 9.98           | Line      | -       | 25.09         | 0.09         | 0.02       | 9.87       |  |  |  |  |  |  |
| QP   | 168k         | 53.88           | 65.06           | -11.18         | 9.98           | Line      | -       | 43.90         | 0.09         | 0.02       | 9.87       |  |  |  |  |  |  |
| AV   | 168k         | 32.77           | 55.06           | -22.29         | 9.98           | Line      | -       | 22.79         | 0.09         | 0.02       | 9.87       |  |  |  |  |  |  |
| QP   | 177k         | 56.48           | 64.62           | -8.14          | 9.97           | Line      | "Worst" | 46.51         | 0.08         | 0.02       | 9.87       |  |  |  |  |  |  |
| AV   | 177k         | 36.40           | 54.62           | -18.22         | 9.97           | Line      | -       | 26.43         | 0.08         | 0.02       | 9.87       |  |  |  |  |  |  |
| QP   | 204k         | 52.03           | 63.44           | -11.41         | 9.96           | Line      | -       | 42.07         | 0.08         | 0.02       | 9.86       |  |  |  |  |  |  |
| AV   | 204k         | 32.38           | 53.44           | -21.06         | 9.96           | Line      | -       | 22.42         | 0.08         | 0.02       | 9.86       |  |  |  |  |  |  |
| QP   | 235.5k       | 48.72           | 62.25           | -13.53         | 9.97           | Line      | -       | 38.75         | 0.08         | 0.02       | 9.87       |  |  |  |  |  |  |
| AV   | 235.5k       | 30.12           | 52.25           | -22.13         | 9.97           | Line      | -       | 20.15         | 0.08         | 0.02       | 9.87       |  |  |  |  |  |  |
| QP   | 379.5k       | 44.28           | 58.29           | -14.01         | 10.01          | Line      | -       | 34.27         | 0.09         | 0.02       | 9.90       |  |  |  |  |  |  |
| AV   | 379.5k       | 28.37           | 48.29           | -19.92         | 10.01          | Line      | -       | 18.36         | 0.09         | 0.02       | 9.90       |  |  |  |  |  |  |

### Mode 2



| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|--------------|------------|------------|--|--|--|--|--|--|
| QP   | 150k         | 59.04           | 66.00           | -6.96          | 9.96           | Neutral   | "Worst" | 49.08         | 0.07         | 0.02       | 9.87       |  |  |  |  |  |  |
| AV   | 150k         | 38.53           | 56.00           | -17.47         | 9.96           | Neutral   | -       | 28.57         | 0.07         | 0.02       | 9.87       |  |  |  |  |  |  |
| QP   | 163.5k       | 57.02           | 65.27           | -8.25          | 9.96           | Neutral   | -       | 47.06         | 0.07         | 0.02       | 9.87       |  |  |  |  |  |  |
| AV   | 163.5k       | 35.72           | 55.27           | -19.55         | 9.96           | Neutral   | -       | 25.76         | 0.07         | 0.02       | 9.87       |  |  |  |  |  |  |
| QP   | 177k         | 55.36           | 64.62           | -9.26          | 9.96           | Neutral   | -       | 45.40         | 0.07         | 0.02       | 9.87       |  |  |  |  |  |  |
| AV   | 177k         | 35.48           | 54.62           | -19.14         | 9.96           | Neutral   | -       | 25.52         | 0.07         | 0.02       | 9.87       |  |  |  |  |  |  |
| QP   | 195k         | 51.29           | 63.82           | -12.53         | 9.95           | Neutral   | -       | 41.34         | 0.07         | 0.02       | 9.86       |  |  |  |  |  |  |
| AV   | 195k         | 31.22           | 53.82           | -22.60         | 9.95           | Neutral   | -       | 21.27         | 0.07         | 0.02       | 9.86       |  |  |  |  |  |  |
| QP   | 406.5k       | 39.74           | 57.72           | -17.98         | 9.99           | Neutral   | -       | 29.75         | 0.07         | 0.02       | 9.90       |  |  |  |  |  |  |
| AV   | 406.5k       | 24.89           | 47.72           | -22.83         | 9.99           | Neutral   | -       | 14.90         | 0.07         | 0.02       | 9.90       |  |  |  |  |  |  |
| QP   | 438k         | 35.85           | 57.11           | -21.26         | 9.99           | Neutral   | -       | 25.86         | 0.07         | 0.02       | 9.90       |  |  |  |  |  |  |
| AV   | 438k         | 22.16           | 47.11           | -24.95         | 9.99           | Neutral   | -       | 12.17         | 0.07         | 0.02       | 9.90       |  |  |  |  |  |  |

**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 | -                | -               | -        | -                | -               |
| BT-BR(1Mbps)  | 965.25k          | 880.183k        | 880KF1D  | 957k             | 812.926k        |
| BT-EDR(2Mbps) | 1.268M           | 1.195M          | 1M20G1D  | 1.218M           | 1.175M          |
| BT-EDR(3Mbps) | 1.342M           | 1.215M          | 1M22G1D  | 1.249M           | 1.194M          |

Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;  
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

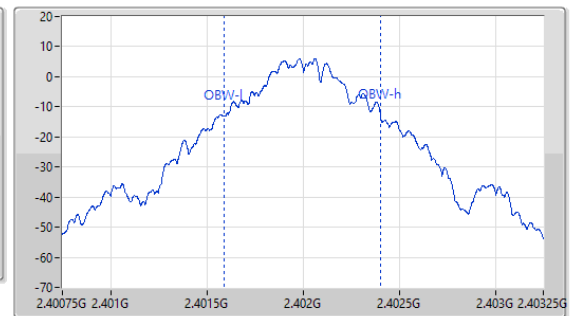
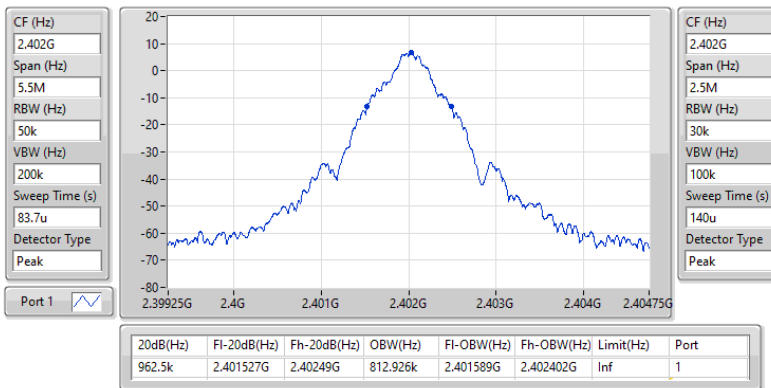
**Result**

| Mode          | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) |
|---------------|--------|---------------|---------------------|--------------------|
| BT-BR(1Mbps)  | -      | -             | -                   | -                  |
| 2402MHz       | Pass   | Inf           | 962.5k              | 812.926k           |
| 2440MHz       | Pass   | Inf           | 965.25k             | 880.183k           |
| 2480MHz       | Pass   | Inf           | 957k                | 825.399k           |
| BT-EDR(2Mbps) | -      | -             | -                   | -                  |
| 2402MHz       | Pass   | Inf           | 1.218M              | 1.193M             |
| 2440MHz       | Pass   | Inf           | 1.254M              | 1.175M             |
| 2480MHz       | Pass   | Inf           | 1.268M              | 1.195M             |
| BT-EDR(3Mbps) | -      | -             | -                   | -                  |
| 2402MHz       | Pass   | Inf           | 1.262M              | 1.194M             |
| 2440MHz       | Pass   | Inf           | 1.342M              | 1.215M             |
| 2480MHz       | Pass   | Inf           | 1.249M              | 1.212M             |

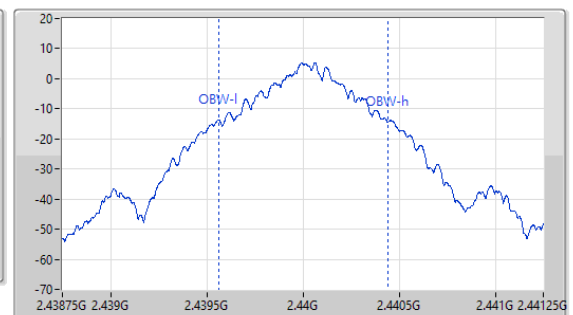
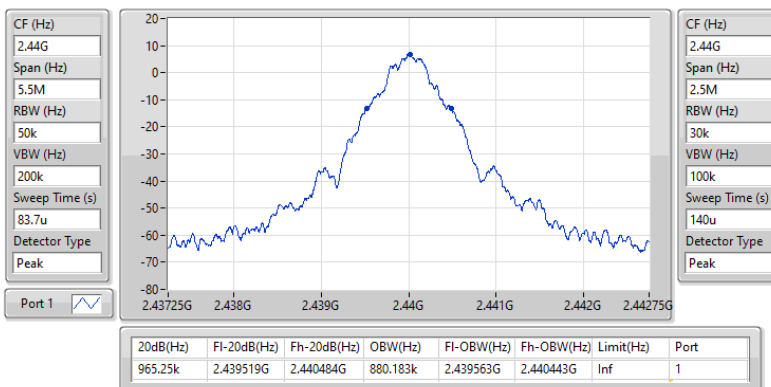
Port X-N dB = Port X 20dB down bandwidth;  
Port X-OBW = Port X 99% occupied bandwidth

**2.4-2.4835GHz\_BT-BR(1Mbps)**
**EBW-FS**
**2402MHz**

29/01/2024

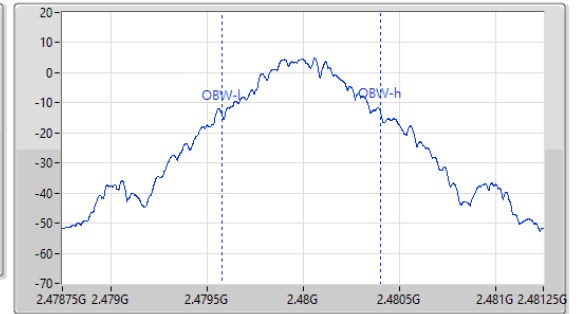
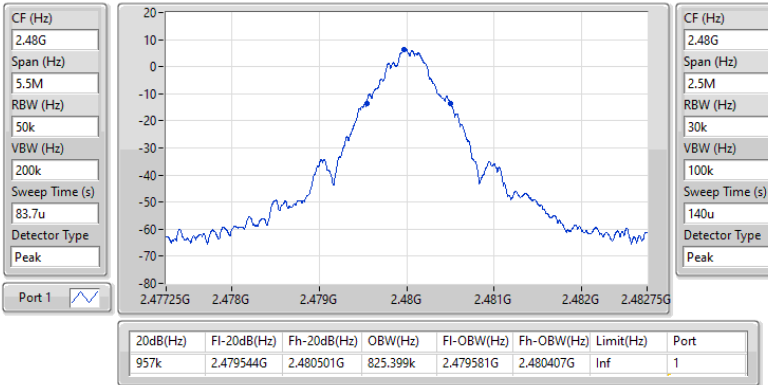

**2.4-2.4835GHz\_BT-BR(1Mbps)**
**EBW-FS**
**2440MHz**

29/01/2024

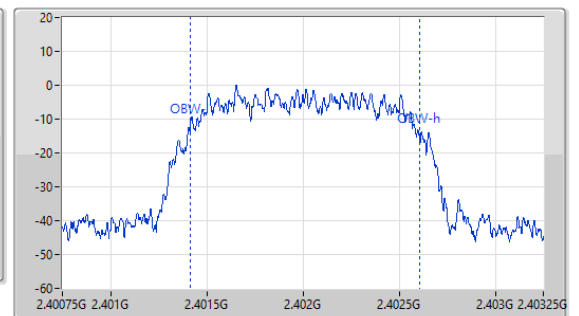
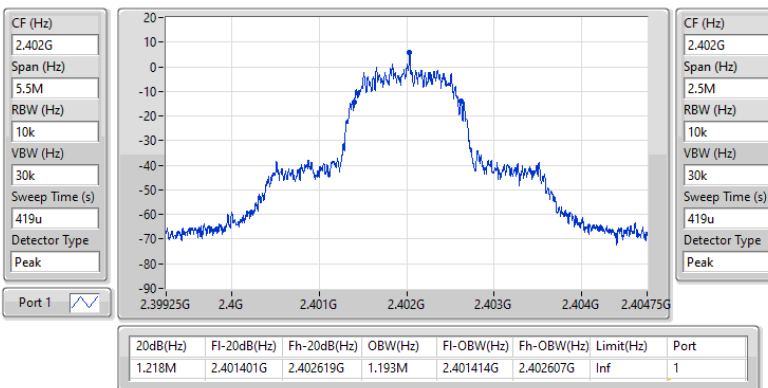


**2.4-2.4835GHz\_BT-BR(1Mbps)**
**EBW-FS**
**2480MHz**

29/01/2024

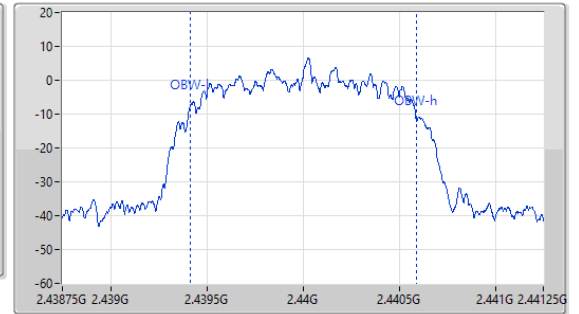
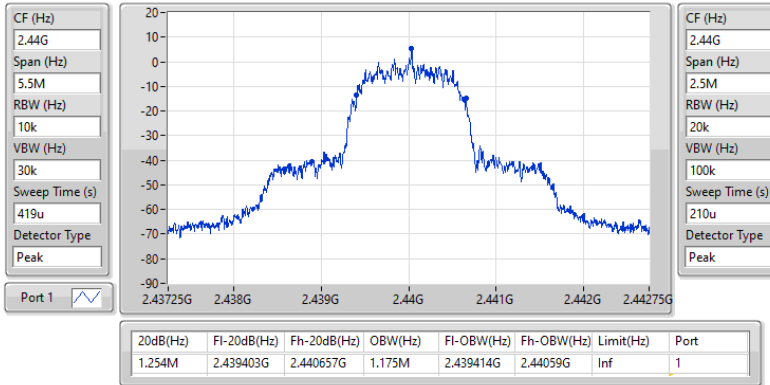

**2.4-2.4835GHz\_BT-EDR(2Mbps)**
**EBW-FS**
**2402MHz**

29/01/2024

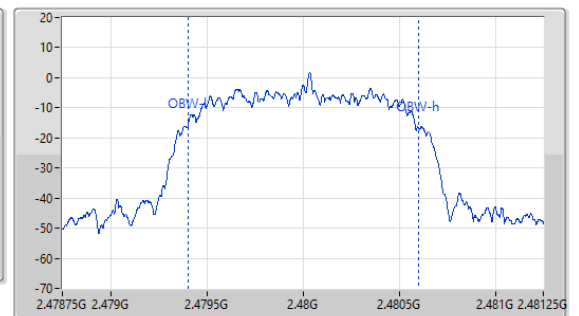
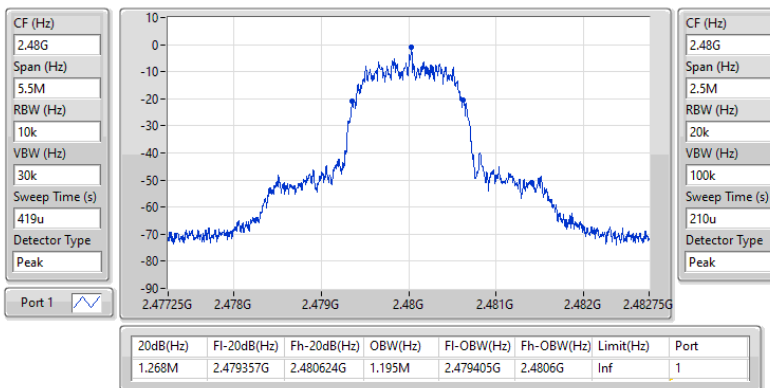


**2.4-2.4835GHz\_BT-EDR(2Mbps)**
**EBW-FS**
**2440MHz**

29/01/2024

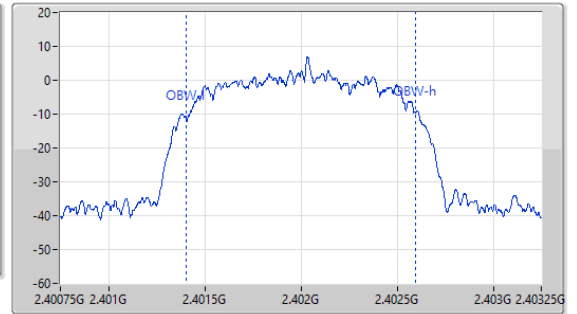
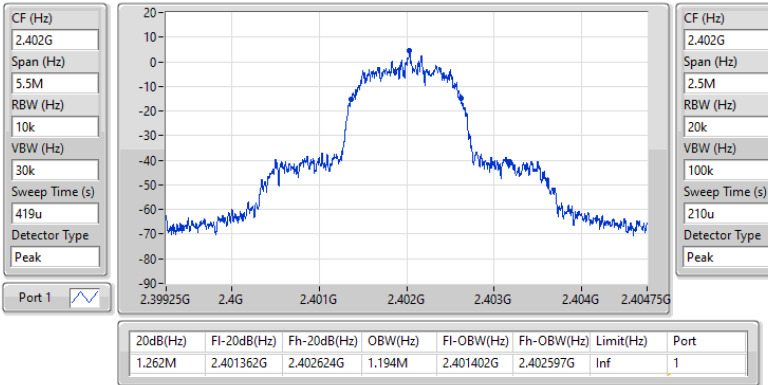

**2.4-2.4835GHz\_BT-EDR(2Mbps)**
**EBW-FS**
**2480MHz**

29/01/2024

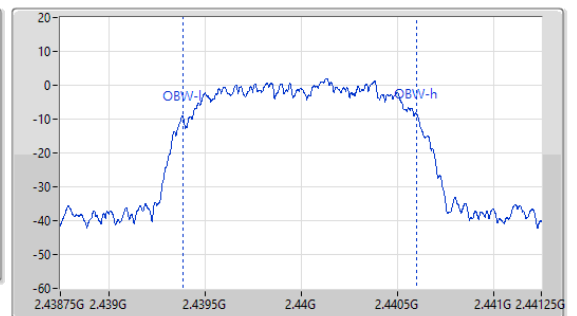
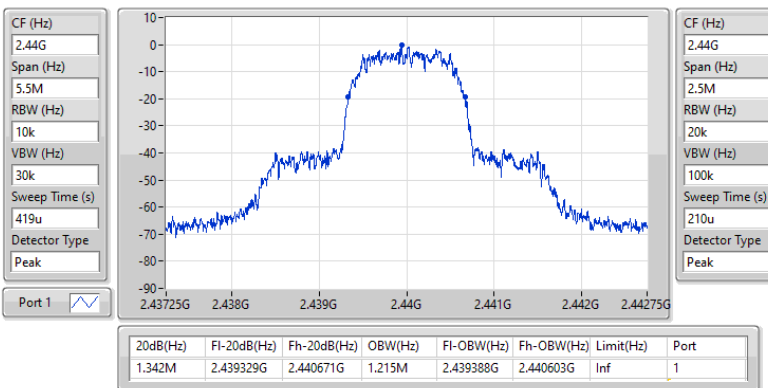


**2.4-2.4835GHz\_BT-EDR(3Mbps)**
**EBW-FS**
**2402MHz**

29/01/2024


**2.4-2.4835GHz\_BT-EDR(3Mbps)**
**EBW-FS**
**2440MHz**

29/01/2024

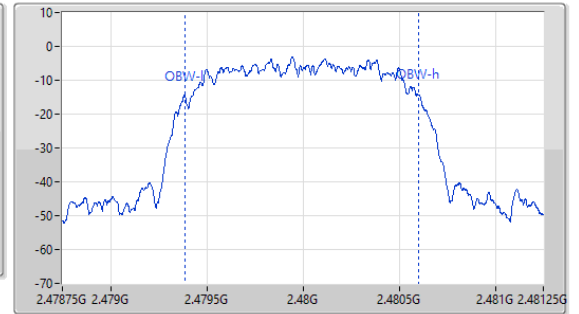
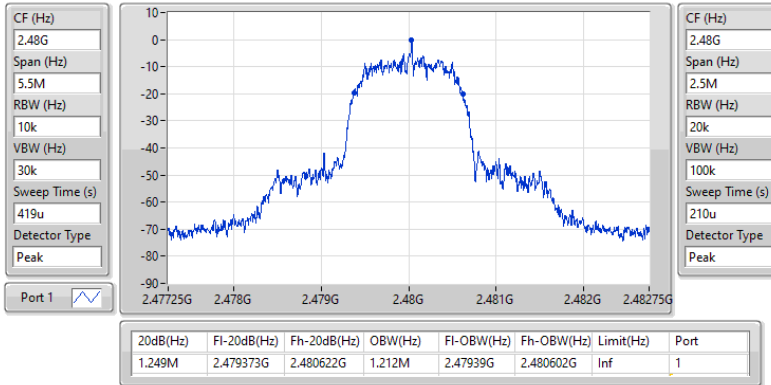


2.4-2.4835GHz\_BT-EDR(3Mbps)

EBW-FS

2480MHz

29/01/2024



**Summary**

| Mode          | Max-Space<br>(Hz) | Min-Space<br>(Hz) |
|---------------|-------------------|-------------------|
| 2.4-2.4835GHz | -                 | -                 |
| BT-BR(1Mbps)  | 1.002M            | 1.0005M           |
| BT-EDR(2Mbps) | 1.0005M           | 1.0005M           |
| BT-EDR(3Mbps) | 1.0005M           | 1.0005M           |

## Result

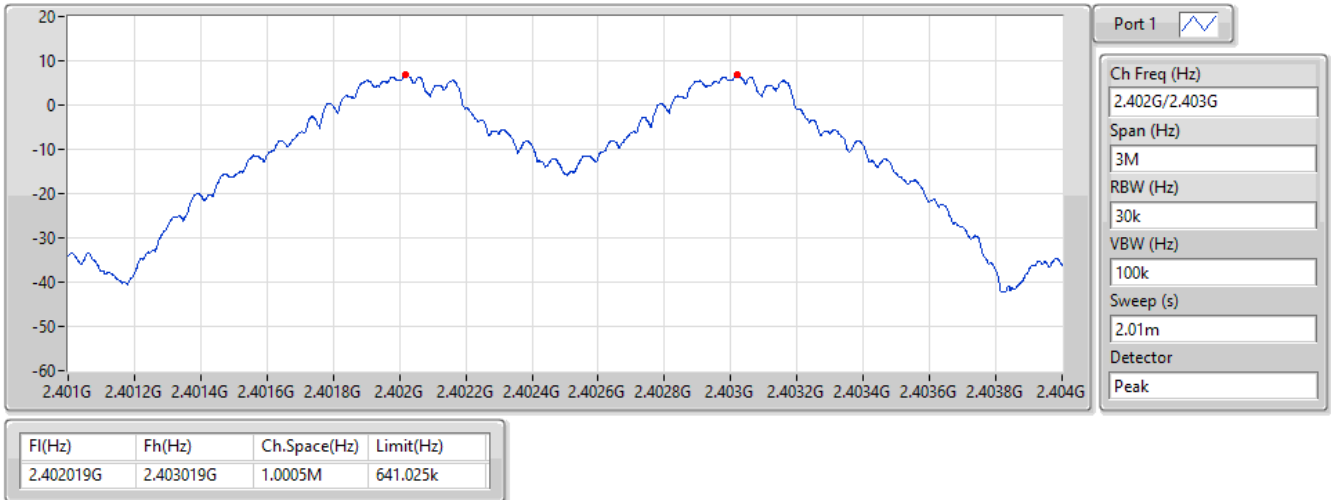
| Mode          | Result | Fl<br>(Hz) | Fh<br>(Hz) | Ch.Space<br>(Hz) | Limit<br>(Hz) |
|---------------|--------|------------|------------|------------------|---------------|
| BT-BR(1Mbps)  | -      | -          | -          | -                | -             |
| 2402MHz       | Pass   | 2.402019G  | 2.403019G  | 1.0005M          | 641.025k      |
| 2440MHz       | Pass   | 2.440019G  | 2.441021G  | 1.002M           | 642.8565k     |
| 2480MHz       | Pass   | 2.479017G  | 2.480019G  | 1.002M           | 637.362k      |
| BT-EDR(2Mbps) | -      | -          | -          | -                | -             |
| 2402MHz       | Pass   | 2.402019G  | 2.403019G  | 1.0005M          | 811.188k      |
| 2440MHz       | Pass   | 2.440019G  | 2.441019G  | 1.0005M          | 835.164k      |
| 2480MHz       | Pass   | 2.479019G  | 2.480019G  | 1.0005M          | 844.488k      |
| BT-EDR(3Mbps) | -      | -          | -          | -                | -             |
| 2402MHz       | Pass   | 2.402019G  | 2.403019G  | 1.0005M          | 840.492k      |
| 2440MHz       | Pass   | 2.440019G  | 2.441019G  | 1.0005M          | 893.772k      |
| 2480MHz       | Pass   | 2.479019G  | 2.480019G  | 1.0005M          | 831.834k      |

2.4-2.4835GHz\_BT-BR(1Mbps)

Channel Separation-FS

2.402G/2.403GHz

29/01/2024

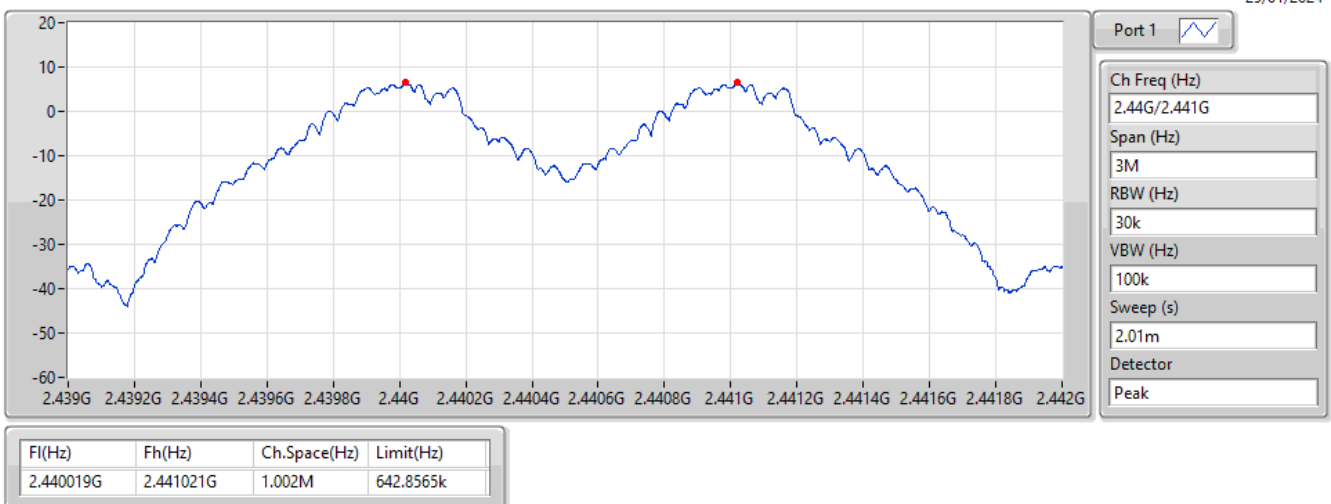


2.4-2.4835GHz\_BT-BR(1Mbps)

Channel Separation-FS

2.44G/2.441GHz

29/01/2024



## 2.4-2.4835GHz\_BT-BR(1Mbps)

## Channel Separation-FS

2.48G/2.479GHz

29/01/2024

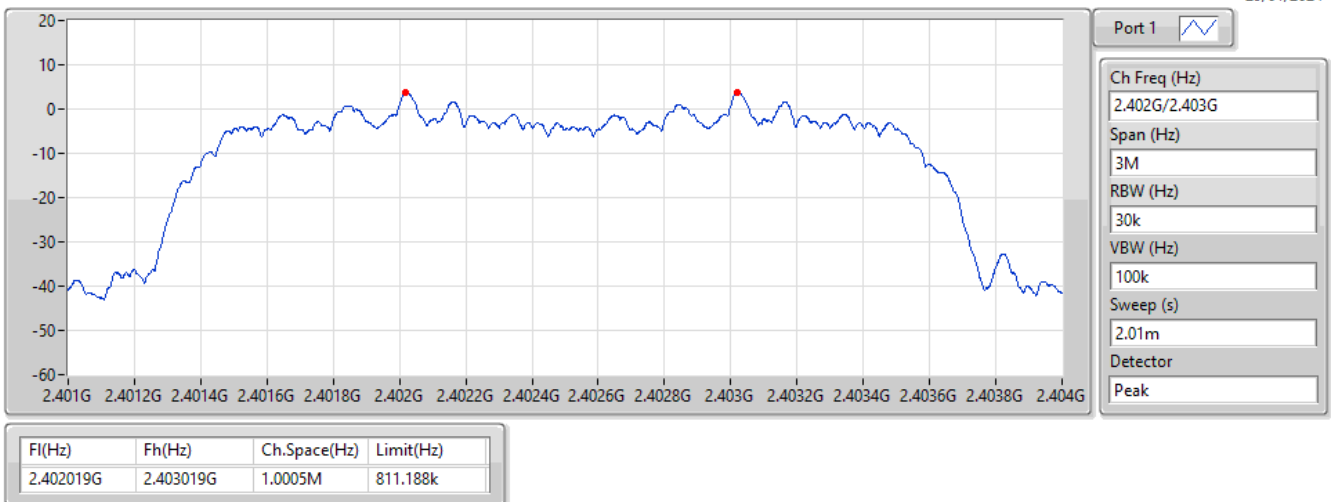


## 2.4-2.4835GHz\_BT-EDR(2Mbps)

## Channel Separation-FS

2.402G/2.403GHz

29/01/2024

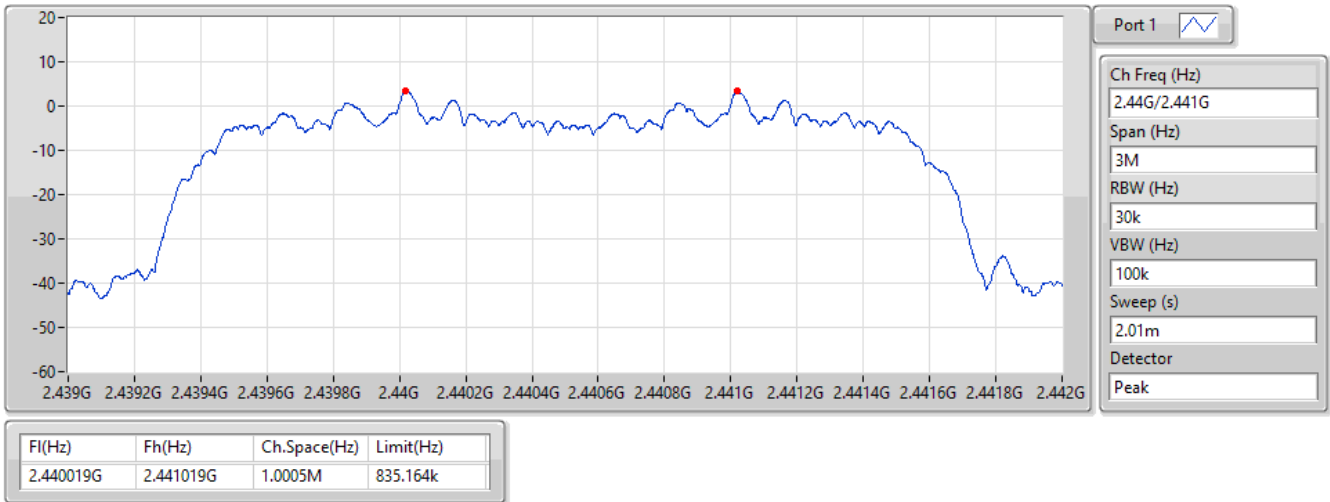


## 2.4-2.4835GHz\_BT-EDR(2Mbps)

## Channel Separation-FS

2.44G/2.441GHz

29/01/2024

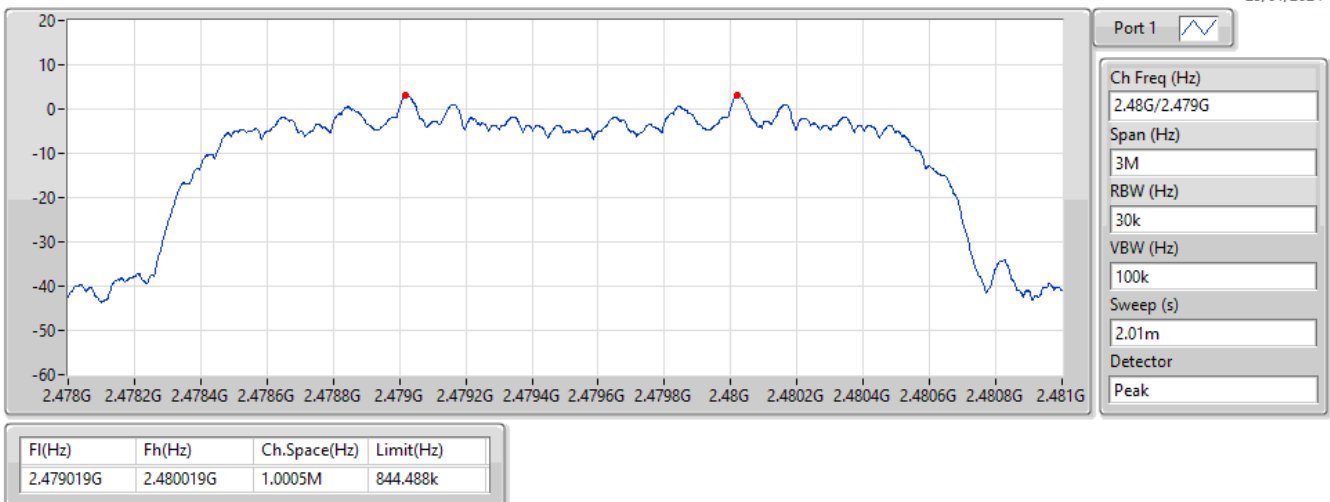


## 2.4-2.4835GHz\_BT-EDR(2Mbps)

## Channel Separation-FS

2.48G/2.479GHz

29/01/2024

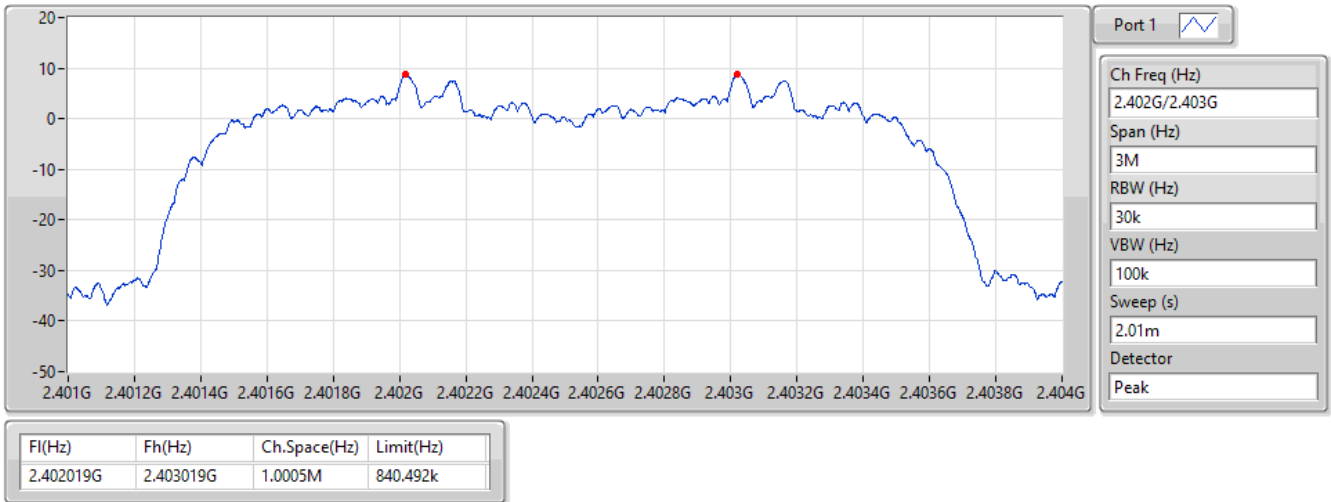


## 2.4-2.4835GHz\_BT-EDR(3Mbps)

## Channel Separation-FS

### 2.402G/2.403GHz

29/01/2024

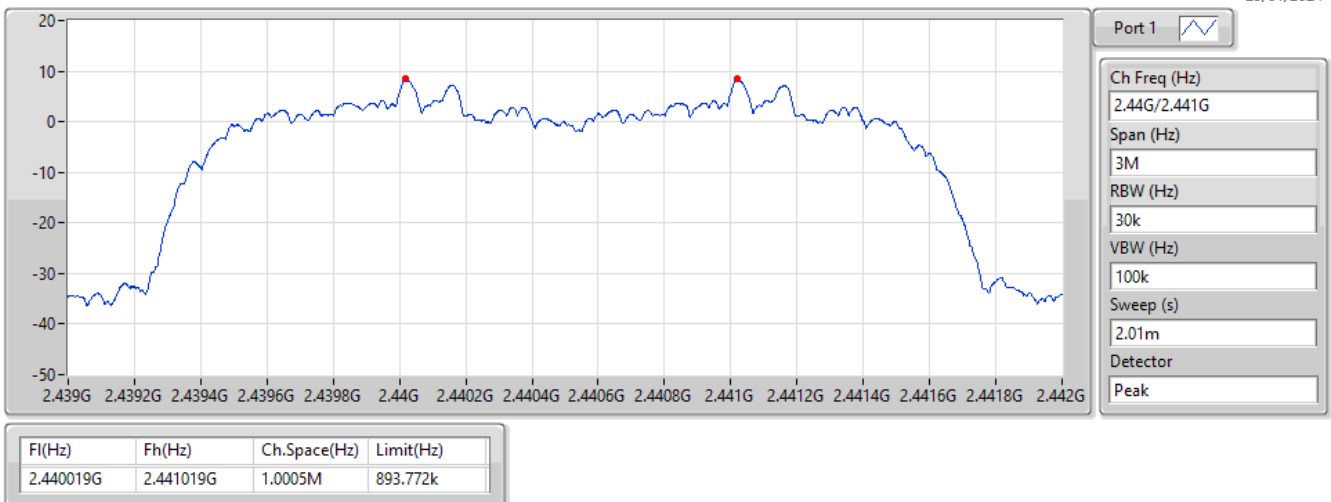


## 2.4-2.4835GHz\_BT-EDR(3Mbps)

## Channel Separation-FS

### 2.44G/2.441GHz

29/01/2024

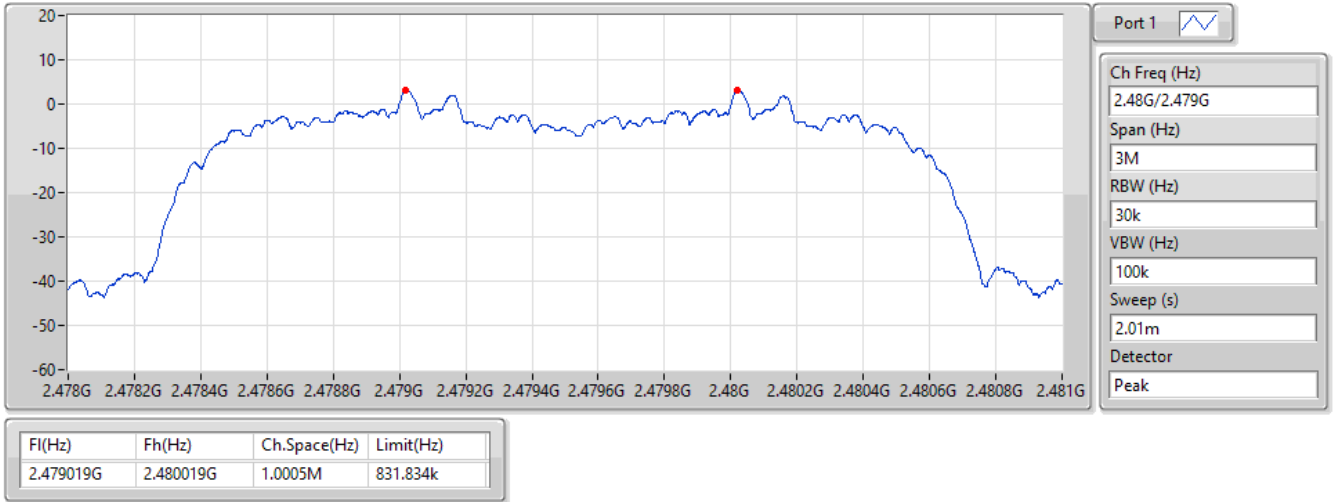


2.4-2.4835GHz\_BT-EDR(3Mbps)

Channel Separation-FS

2.48G/2.479GHz

29/01/2024





## Average Power-FHSS

## Appendix C.1

### Summary

| Mode          | Total Power<br>(dBm) | Total Power<br>(W) |
|---------------|----------------------|--------------------|
| 2.4-2.4835GHz | -                    | -                  |
| BT-BR(1Mbps)  | 9.15                 | 0.00822            |
| BT-EDR(2Mbps) | 10.65                | 0.01161            |
| BT-EDR(3Mbps) | 10.69                | 0.01172            |



## Average Power-FHSS

## Appendix C.1

### Result

| Mode          | Result | DG<br>(dBi) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|---------------|--------|-------------|----------------------|----------------------|
| BT-BR(1Mbps)  | -      | -           | -                    | -                    |
| 2402MHz       | Pass   | 3.53        | 9.15                 | 21.00                |
| 2440MHz       | Pass   | 3.53        | 8.83                 | 21.00                |
| 2480MHz       | Pass   | 3.53        | 8.67                 | 21.00                |
| BT-EDR(2Mbps) | -      | -           | -                    | -                    |
| 2402MHz       | Pass   | 3.53        | 10.65                | 21.00                |
| 2440MHz       | Pass   | 3.53        | 10.37                | 21.00                |
| 2480MHz       | Pass   | 3.53        | 5.02                 | 21.00                |
| BT-EDR(3Mbps) | -      | -           | -                    | -                    |
| 2402MHz       | Pass   | 3.53        | 10.69                | 21.00                |
| 2440MHz       | Pass   | 3.53        | 10.03                | 21.00                |
| 2480MHz       | Pass   | 3.53        | 5.04                 | 21.00                |

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



**Summary**

| Mode          | Total Power<br>(dBm) | Total Power<br>(W) |
|---------------|----------------------|--------------------|
| 2.4-2.4835GHz | -                    | -                  |
| BT-BR(1Mbps)  | 9.49                 | 0.00889            |
| BT-EDR(2Mbps) | 13.04                | 0.02014            |
| BT-EDR(3Mbps) | 13.39                | 0.02183            |

### Result

| Mode          | Result | DG<br>(dBi) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|---------------|--------|-------------|----------------------|----------------------|
| BT-BR(1Mbps)  | -      | -           | -                    | -                    |
| 2402MHz       | Pass   | 3.53        | 9.49                 | 21.00                |
| 2440MHz       | Pass   | 3.53        | 9.23                 | 21.00                |
| 2480MHz       | Pass   | 3.53        | 9.04                 | 21.00                |
| BT-EDR(2Mbps) | -      | -           | -                    | -                    |
| 2402MHz       | Pass   | 3.53        | 13.04                | 21.00                |
| 2440MHz       | Pass   | 3.53        | 12.79                | 21.00                |
| 2480MHz       | Pass   | 3.53        | 7.65                 | 21.00                |
| BT-EDR(3Mbps) | -      | -           | -                    | -                    |
| 2402MHz       | Pass   | 3.53        | 13.39                | 21.00                |
| 2440MHz       | Pass   | 3.53        | 13.17                | 21.00                |
| 2480MHz       | Pass   | 3.53        | 8.06                 | 21.00                |

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



**Summary**

| Mode          | Max-Hop No |
|---------------|------------|
| 2.4-2.4835GHz | -          |
| BT-BR(1Mbps)  | 79         |
| BT-EDR(2Mbps) | 79         |
| BT-EDR(3Mbps) | 79         |

**Result**

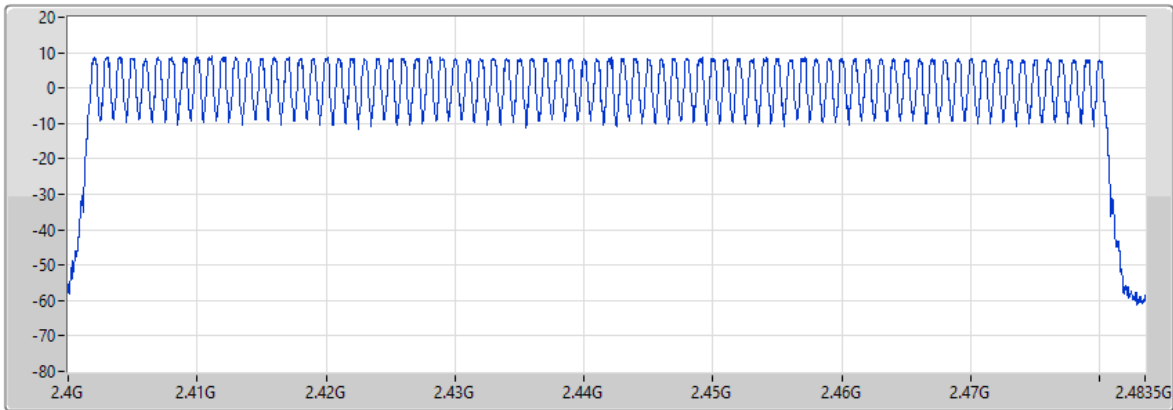
| Mode          | Result | Hopping No | Limit |
|---------------|--------|------------|-------|
| BT-BR(1Mbps)  | -      | -          | -     |
| 2440MHz       | Pass   | 79         | 15    |
| BT-EDR(2Mbps) | -      | -          | -     |
| 2440MHz       | Pass   | 79         | 15    |
| BT-EDR(3Mbps) | -      | -          | -     |
| 2440MHz       | Pass   | 79         | 15    |

2.4-2.4835GHz\_BT-BR(1Mbps)

Hopping-FS

2440MHz

29/01/2024



Port 1 

Hopping No  
79

Span (Hz)  
83.5M

RBW (Hz)  
100k

VBW (Hz)  
300kHz

Sweep (s)  
8.01ms

Detector  
Peak

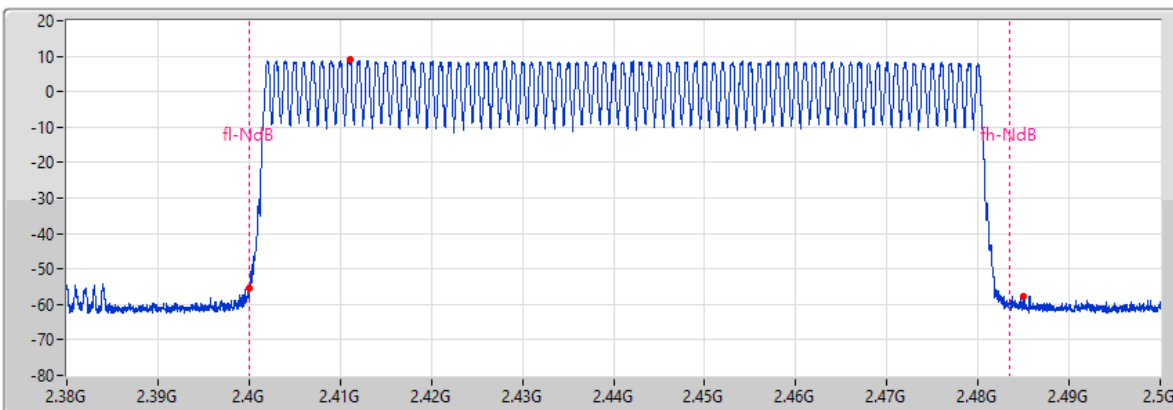
| Hopping No | Limit |
|------------|-------|
| 79         | 15    |

2.4-2.4835GHz\_BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

29/01/2024



Port 1 

Span (Hz)  
120M

RBW (Hz)  
100k

VBW (Hz)  
300k

Sweep (s)  
8.01m

Detector  
Peak

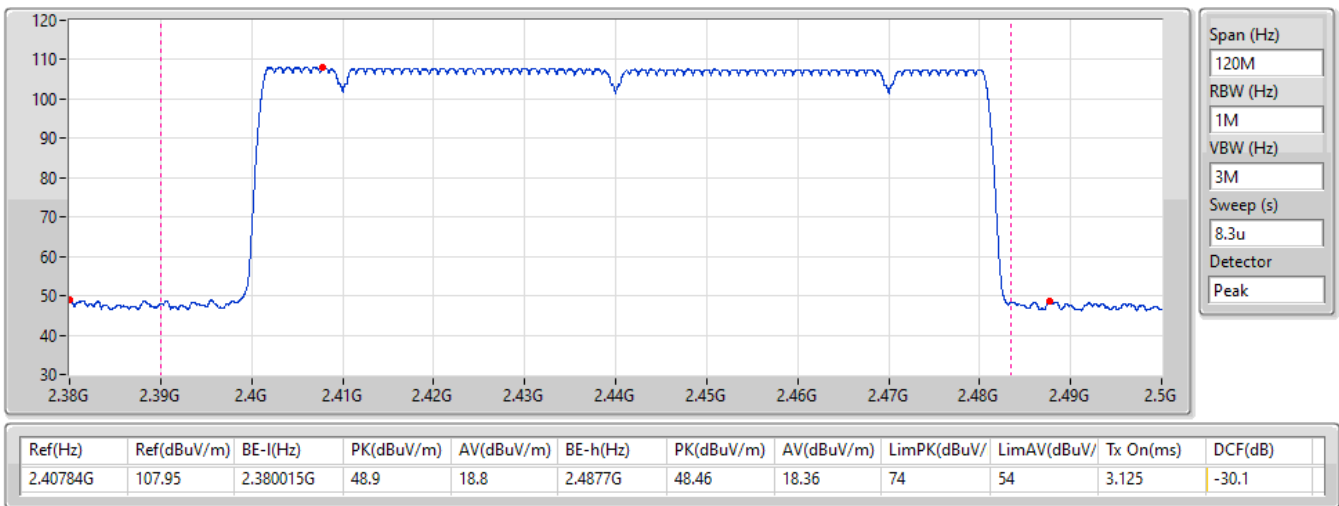
| Limit(dBm) | Ref(Hz)   | Ref(dBm) | BE-l(Hz) | BE-l(dBm) | BE-h(Hz)  | BE-h(dBm) |
|------------|-----------|----------|----------|-----------|-----------|-----------|
| -10.93     | 2.411155G | 9.07     | 2.39998G | -55.4     | 2.484955G | -57.58    |

### 2.4-2.4835GHz\_BT-BR(1Mbps)

2440MHz

#### Hopping Ch Bandedge (Restricted Band)

29/01/2024

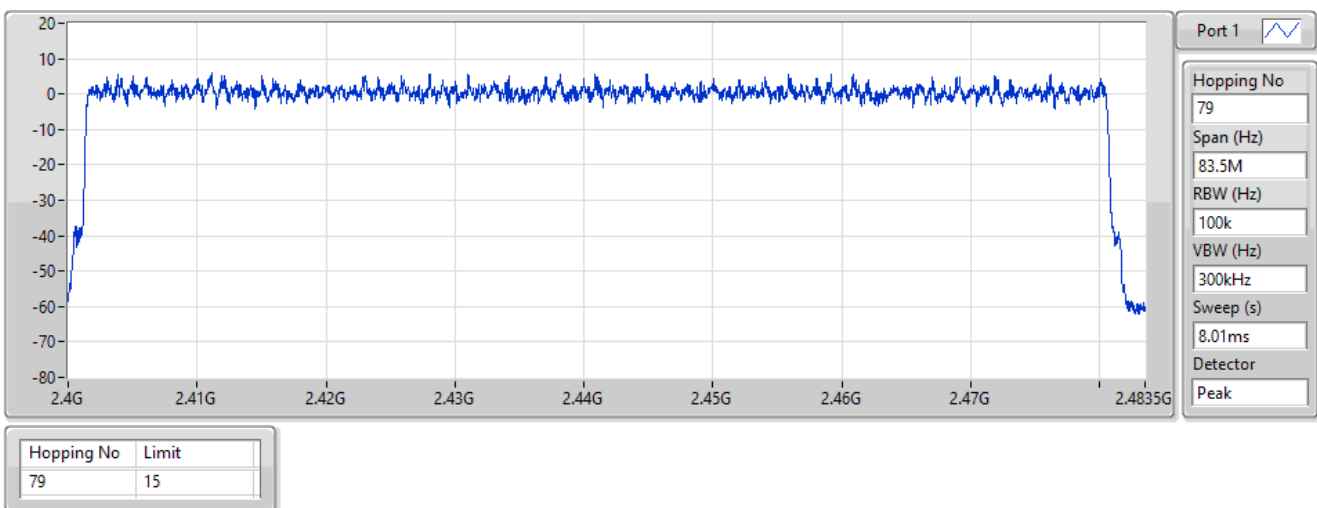


### 2.4-2.4835GHz\_BT-EDR(2Mbps)

2440MHz

#### Hopping-FS

29/01/2024

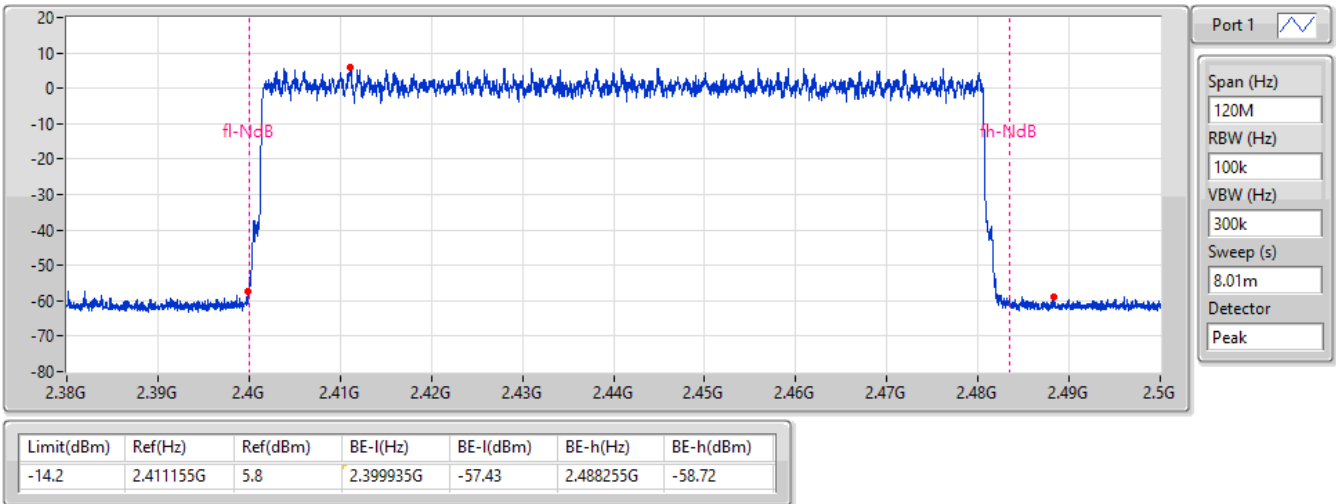


2.4-2.4835GHz\_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

29/01/2024

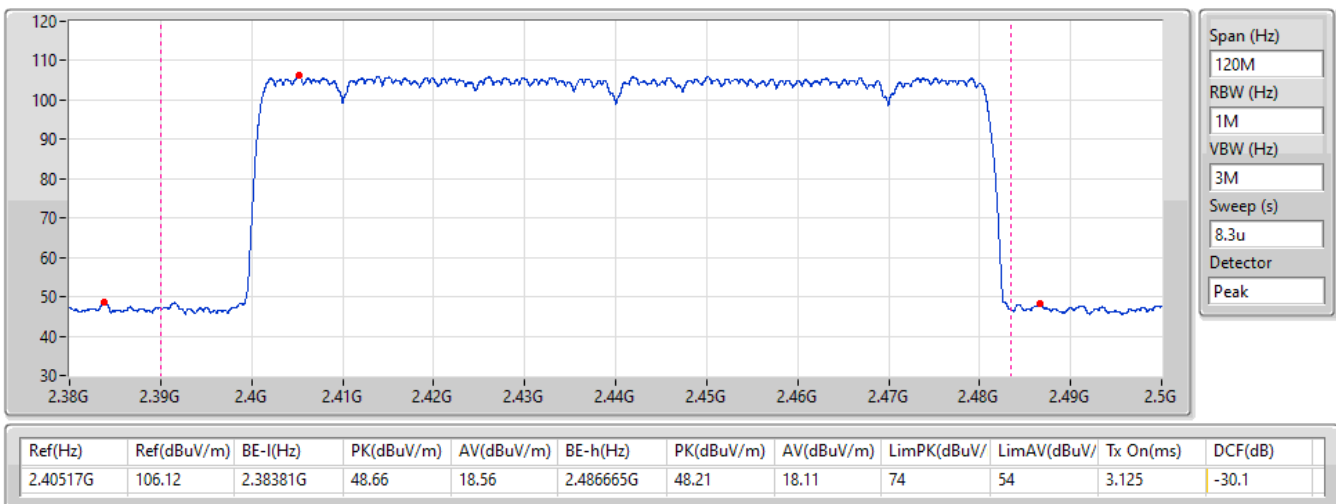


2.4-2.4835GHz\_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

29/01/2024

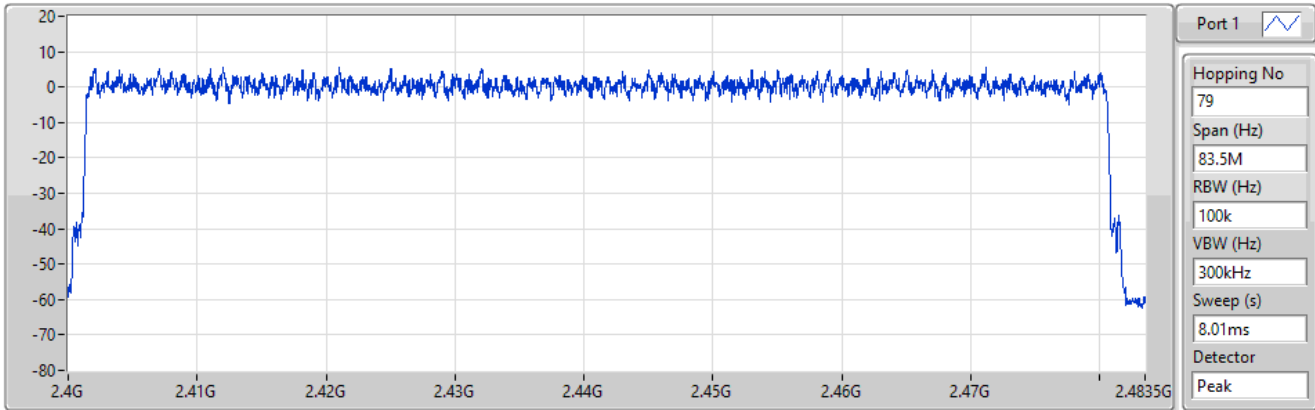


2.4-2.4835GHz\_BT-EDR(3Mbps)

Hopping-FS

2440MHz

29/01/2024



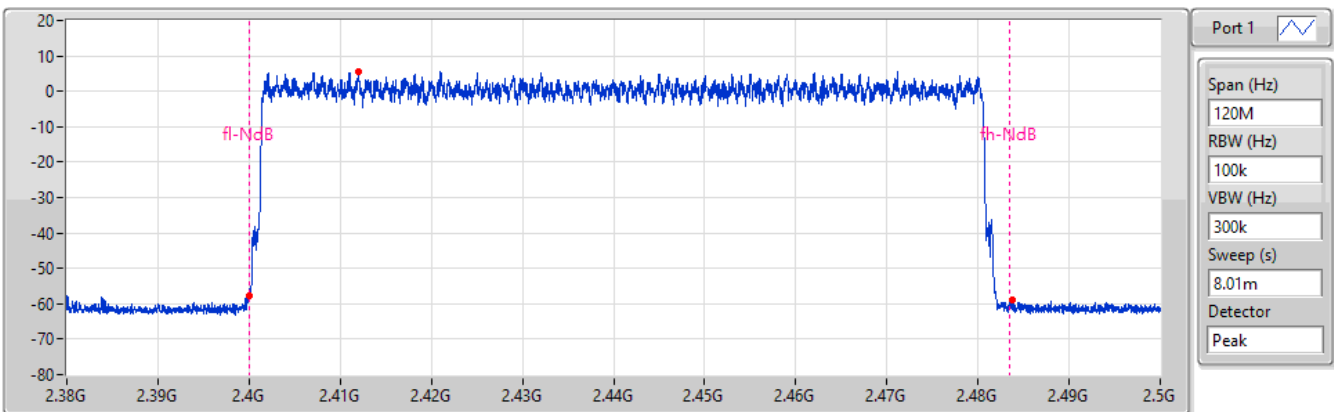
| Hopping No | Limit |
|------------|-------|
| 79         | 15    |

2.4-2.4835GHz\_BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

29/01/2024



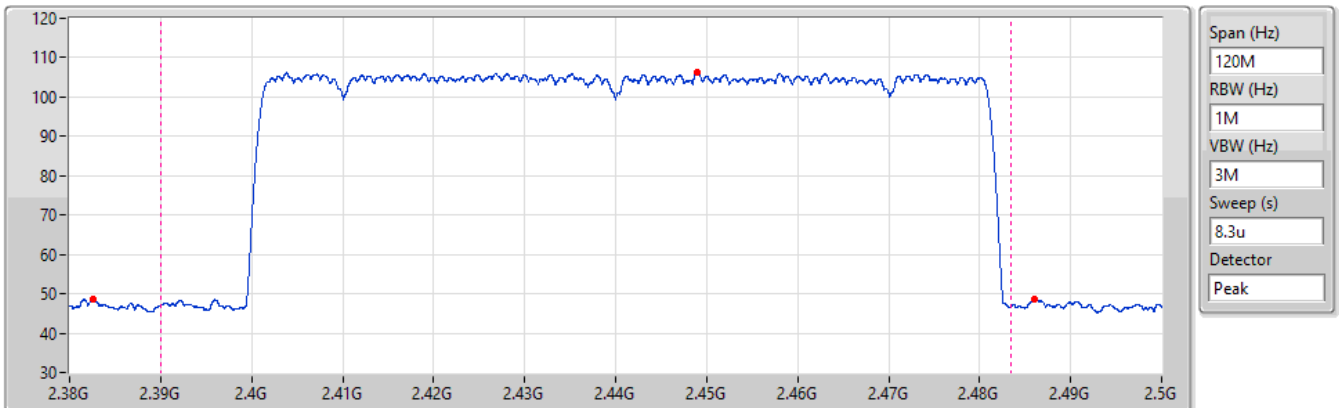
| Limit(dBm) | Ref(Hz)  | Ref(dBm) | BE-l(Hz)  | BE-l(dBm) | BE-h(Hz)  | BE-h(dBm) |
|------------|----------|----------|-----------|-----------|-----------|-----------|
| -14.33     | 2.41201G | 5.67     | 2.399995G | -57.61    | 2.483815G | -58.9     |

2.4-2.4835GHz\_BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

29/01/2024



| Ref(Hz) | Ref(dBuV/m) | BE-l(Hz) | PK(dBuV/m) | AV(dBuV/m) | BE-h(Hz) | PK(dBuV/m) | AV(dBuV/m) | LimPK(dBuV/ | LimAV(dBuV/ | Tx On(ms) | DCF(dB) |
|---------|-------------|----------|------------|------------|----------|------------|------------|-------------|-------------|-----------|---------|
| 2.449G  | 106.24      | 2.38258G | 48.6       | 18.5       | 2.48608G | 48.5       | 18.4       | 74          | 54          | 3.125     | -30.1   |



**Summary**

|               |                |
|---------------|----------------|
| 2.4-2.4835GHz | -              |
| BT-BR(1Mbps)  | 309.1933m_DH5  |
| BT-EDR(2Mbps) | 308.20725m_DH5 |
| BT-EDR(3Mbps) | 308.4471m_DH5  |

**Result**

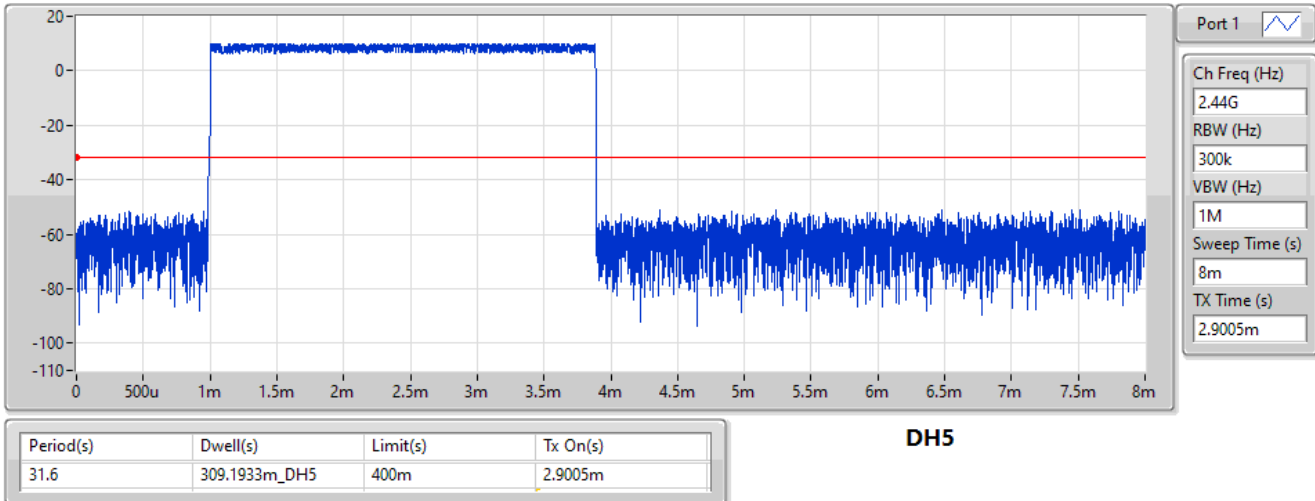
| Mode          | Result | Period<br>(s) | Dwell<br>(s)       | Limit<br>(s) | Tx On<br>(s) |
|---------------|--------|---------------|--------------------|--------------|--------------|
| BT-BR(1Mbps)  | -      | -             | -                  | -            | -            |
| 2440MHz       | Pass   | 31.6          | 309.1933m_DH5      | 400m         | 2.9005m      |
| 2440MHz       | Pass   | 8             | 154.59665m_DH5-AFH | 400m         | 2.9005m      |
| BT-EDR(2Mbps) | -      | -             | -                  | -            | -            |
| 2440MHz       | Pass   | 31.6          | 308.20725m_DH5     | 400m         | 2.89125m     |
| 2440MHz       | Pass   | 8             | 154.11695m_DH5-AFH | 400m         | 2.8915m      |
| BT-EDR(3Mbps) | -      | -             | -                  | -            | -            |
| 2440MHz       | Pass   | 31.6          | 308.4471m_DH5      | 400m         | 2.8935m      |
| 2440MHz       | Pass   | 8             | 154.22355m_DH5-AFH | 400m         | 2.8935m      |

2.4-2.4835GHz\_BT-BR(1Mbps)

Dwell-FS

2440MHz

29/01/2024

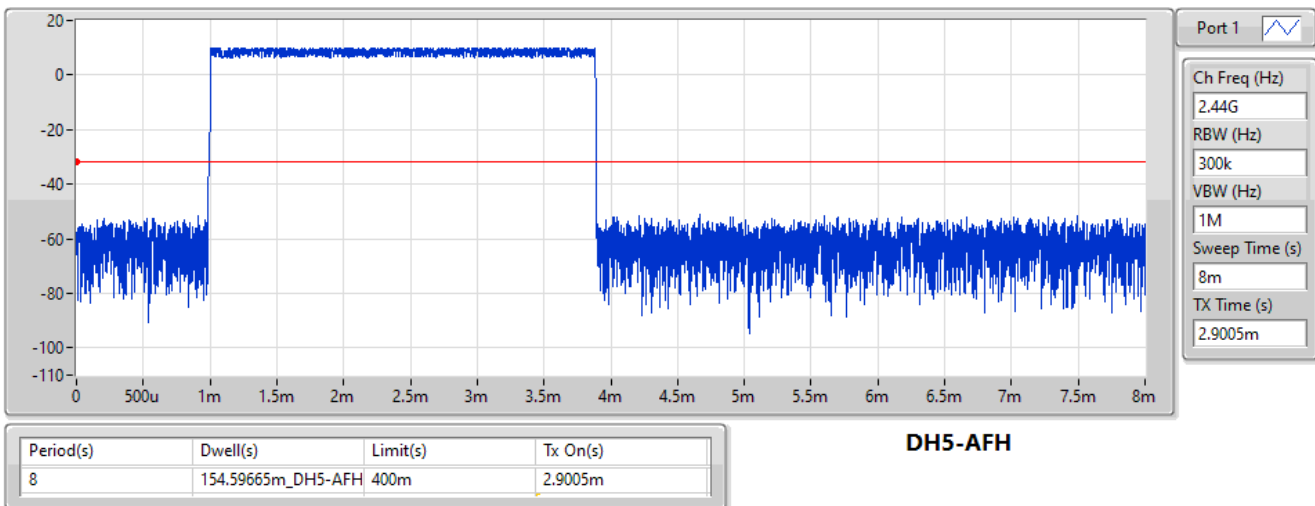


2.4-2.4835GHz\_BT-BR(1Mbps)

Dwell-FS

2440MHz

29/01/2024

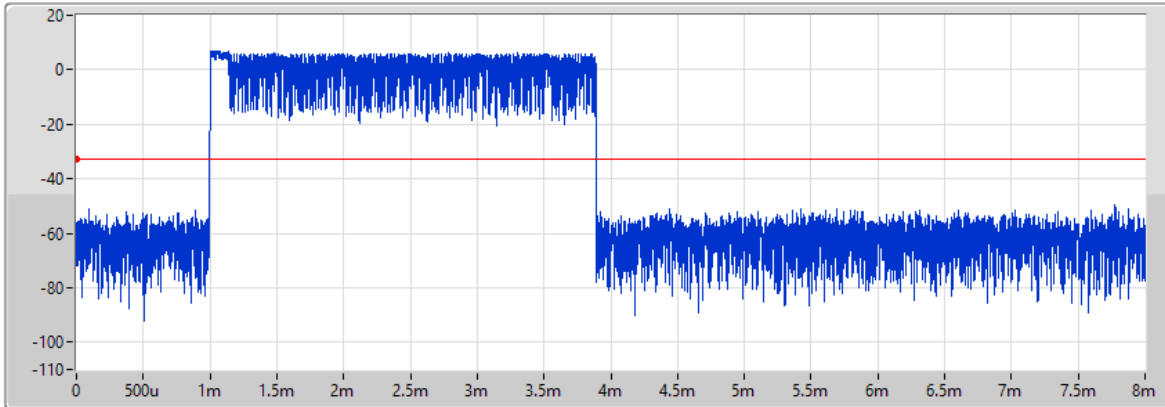


## 2.4-2.4835GHz\_BT-EDR(2Mbps)

Dwell-FS

2440MHz

29/01/2024



Port 1

Ch Freq (Hz)  
2.44G

RBW (Hz)  
300k

VBW (Hz)  
1M

Sweep Time (s)  
8m

TX Time (s)  
2.89125m

| Period(s) | Dwell(s)       | Limit(s) | Tx On(s) |
|-----------|----------------|----------|----------|
| 31.6      | 308.20725m_DH5 | 400m     | 2.89125m |

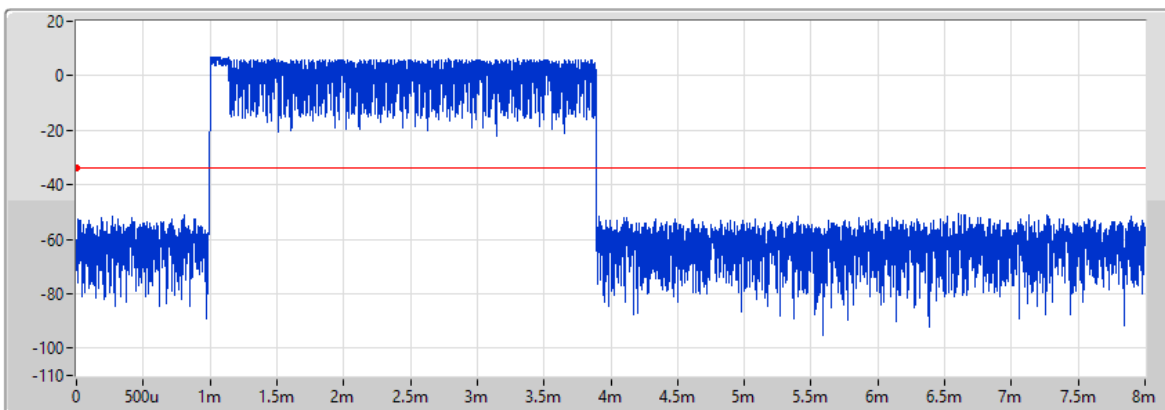
DH5

## 2.4-2.4835GHz\_BT-EDR(2Mbps)

Dwell-FS

2440MHz

29/01/2024



Port 1

Ch Freq (Hz)  
2.44G

RBW (Hz)  
300k

VBW (Hz)  
1M

Sweep Time (s)  
8m

TX Time (s)  
2.8915m

| Period(s) | Dwell(s)           | Limit(s) | Tx On(s) |
|-----------|--------------------|----------|----------|
| 8         | 154.11695m_DH5-AFH | 400m     | 2.8915m  |

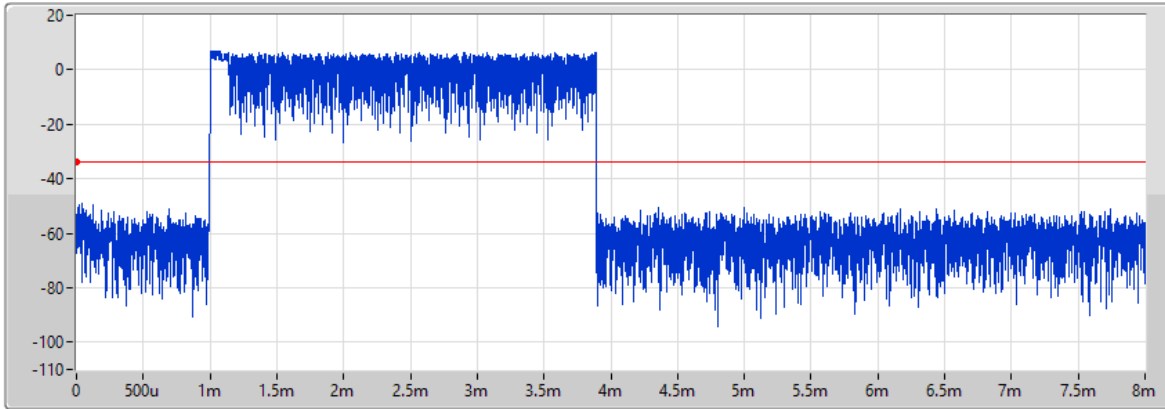
DH5-AFH

2.4-2.4835GHz\_BT-EDR(3Mbps)

Dwell-FS

2440MHz

29/01/2024



Port 1 

Ch Freq (Hz)  
2.44G

RBW (Hz)  
300k

VBW (Hz)  
1M

Sweep Time (s)  
8m

TX Time (s)  
2.8935m

| Period(s) | Dwell(s)      | Limit(s) | Tx On(s) |
|-----------|---------------|----------|----------|
| 31.6      | 308.4471m_DH5 | 400m     | 2.8935m  |

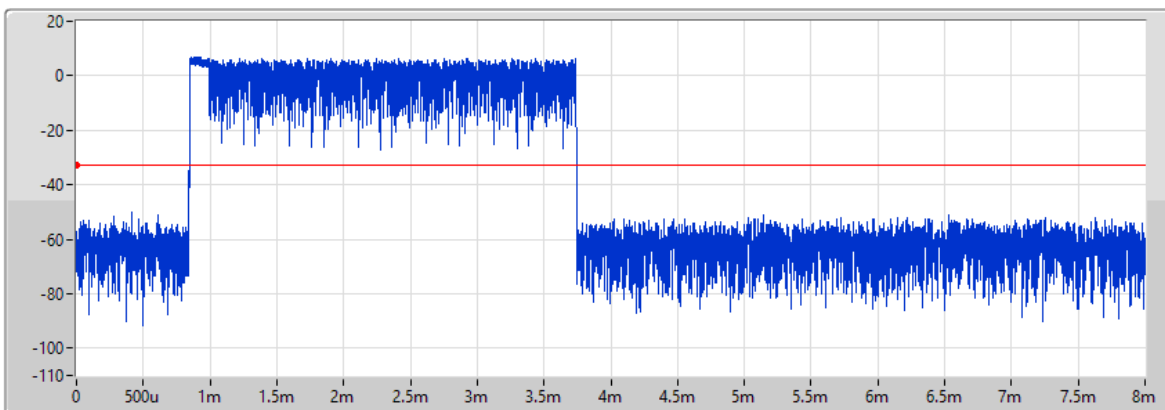
DH5

2.4-2.4835GHz\_BT-EDR(3Mbps)

Dwell-FS

2440MHz

29/01/2024



Port 1 

Ch Freq (Hz)  
2.44G

RBW (Hz)  
300k

VBW (Hz)  
1M

Sweep Time (s)  
8m

TX Time (s)  
2.8935m

| Period(s) | Dwell(s)           | Limit(s) | Tx On(s) |
|-----------|--------------------|----------|----------|
| 8         | 154.22355m_DH5-AFH | 400m     | 2.8935m  |

DH5-AFH

**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 | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| BT-BR(1Mbps)  | Pass   | 2.402G      | 8.76         | -11.24         | 2.02163G     | -54.28         | 2.39992G     | -46.45         | 2.4G         | -50.01         | 2.5033G      | -51.62         | 21.64521G    | -47.93         | 1    |
| BT-EDR(2Mbps) | Pass   | 2.48033G    | 5.30         | -14.70         | 2.30833G     | -54.35         | 2.39148G     | -51.91         | 2.4G         | -56.11         | 2.50262G     | -52.10         | 21.91517G    | -48.05         | 1    |
| BT-EDR(3Mbps) | Pass   | 2.48016G    | 4.29         | -15.71         | 1.8348G      | -54.39         | 2.39104G     | -51.61         | 2.4G         | -57.07         | 2.50214G     | -52.03         | 21.98828G    | -47.29         | 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 |
|---------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| BT-BR(1Mbps)  | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2402MHz       | Pass   | 2.402G      | 8.76         | -11.24         | 2.02163G     | -54.28         | 2.39992G     | -46.45         | 2.4G         | -50.01         | 2.5033G      | -51.62         | 21.64521G    | -47.93         | 1    |
| 2440MHz       | Pass   | 2.44008G    | 8.30         | -11.70         | 1.72788G     | -53.38         | 2.39848G     | -51.66         | 2.4G         | -56.00         | 2.50314G     | -51.11         | 21.99953G    | -47.73         | 1    |
| 2480MHz       | Pass   | 2.48016G    | 8.35         | -11.65         | 2.12268G     | -52.18         | 2.39084G     | -50.83         | 2.4G         | -56.75         | 2.50078G     | -52.09         | 21.60303G    | -46.88         | 1    |
| BT-EDR(2Mbps) | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2402MHz       | Pass   | 2.402G      | 10.96        | -9.04          | 1.65738G     | -53.69         | 2.39996G     | -46.63         | 2.4G         | -48.19         | 2.50154G     | -52.33         | 21.96578G    | -48.28         | 1    |
| 2440MHz       | Pass   | 2.44008G    | 10.48        | -9.52          | 1.96053G     | -54.30         | 2.39544G     | -51.47         | 2.4G         | -55.66         | 2.50074G     | -51.43         | 21.70426G    | -47.96         | 1    |
| 2480MHz       | Pass   | 2.48033G    | 5.30         | -14.70         | 2.30833G     | -54.35         | 2.39148G     | -51.91         | 2.4G         | -56.11         | 2.50262G     | -52.10         | 21.91517G    | -48.05         | 1    |
| BT-EDR(3Mbps) | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2402MHz       | Pass   | 2.402G      | 10.13        | -9.87          | 2.3048G      | -53.40         | 2.4G         | -48.42         | 2.4G         | -49.45         | 2.50206G     | -51.85         | 21.82237G    | -48.03         | 1    |
| 2440MHz       | Pass   | 2.43991G    | 10.47        | -9.53          | 2.098G       | -54.74         | 2.39256G     | -52.09         | 2.4G         | -57.31         | 2.50178G     | -51.46         | 21.74082G    | -47.01         | 1    |
| 2480MHz       | Pass   | 2.48016G    | 4.29         | -15.71         | 1.8348G      | -54.39         | 2.39104G     | -51.61         | 2.4G         | -57.07         | 2.50214G     | -52.03         | 21.98828G    | -47.29         | 1    |

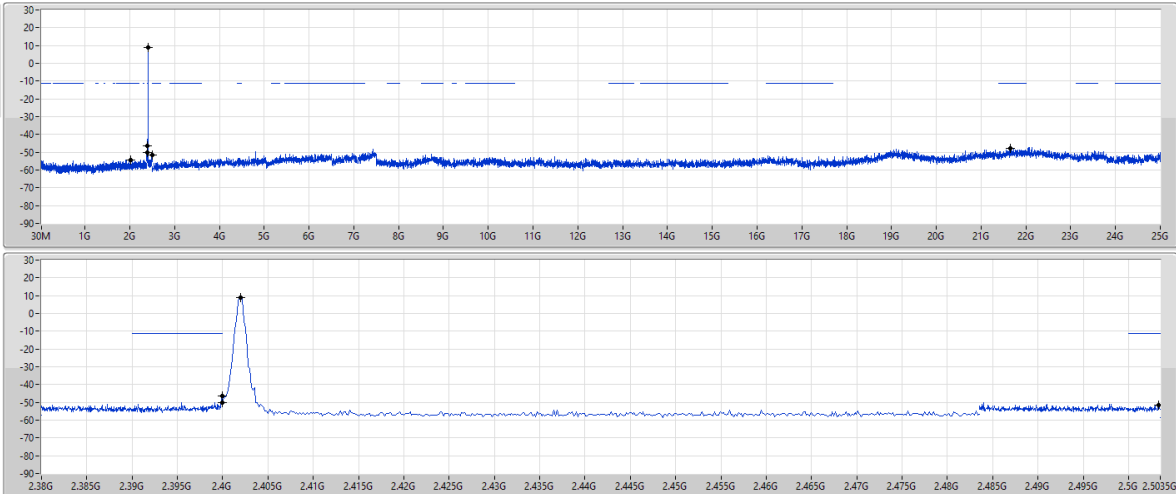
2.4-2.4835GHz\_BT-BR(1Mbps)

CSEndB-FS

2402MHz

29/01/2024

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



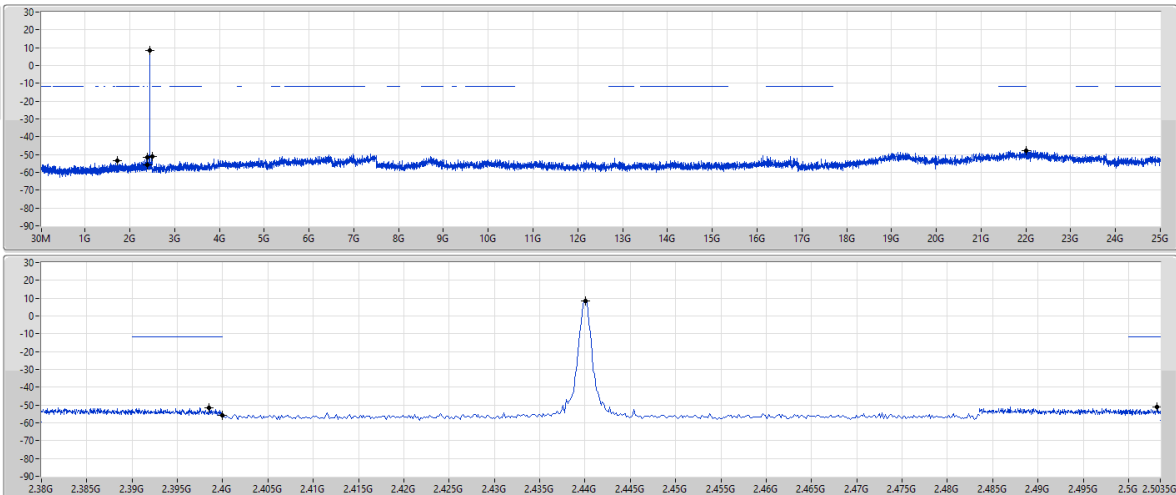
2.4-2.4835GHz\_BT-BR(1Mbps)

CSEndB-FS

2440MHz

29/01/2024

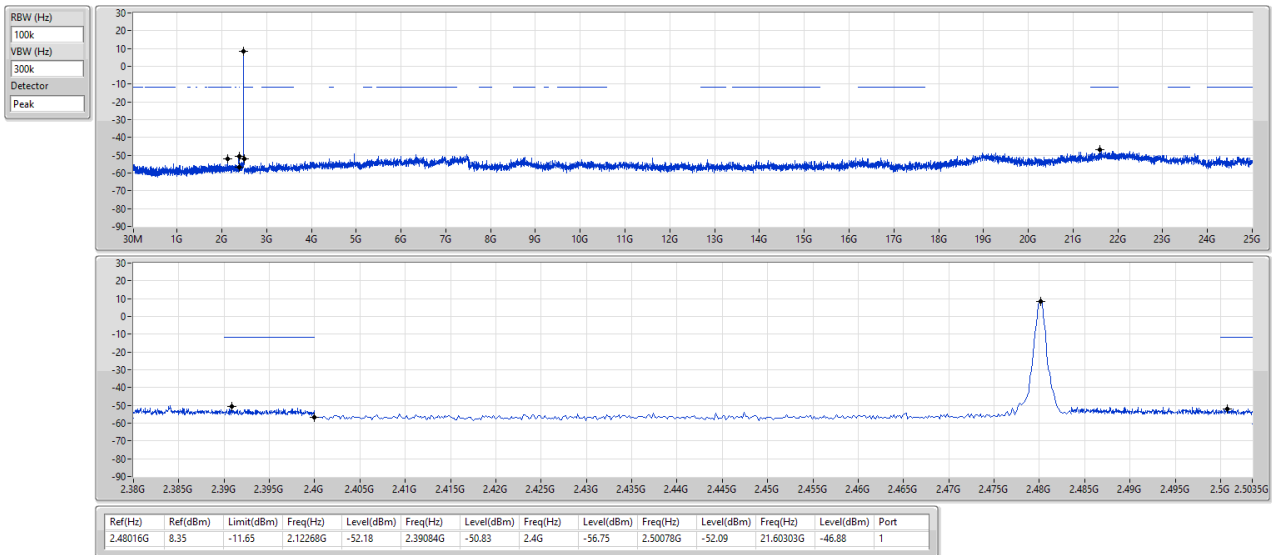
RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak



2.4-2.4835GHz\_BT-BR(1Mbps)

CSEndB-FS

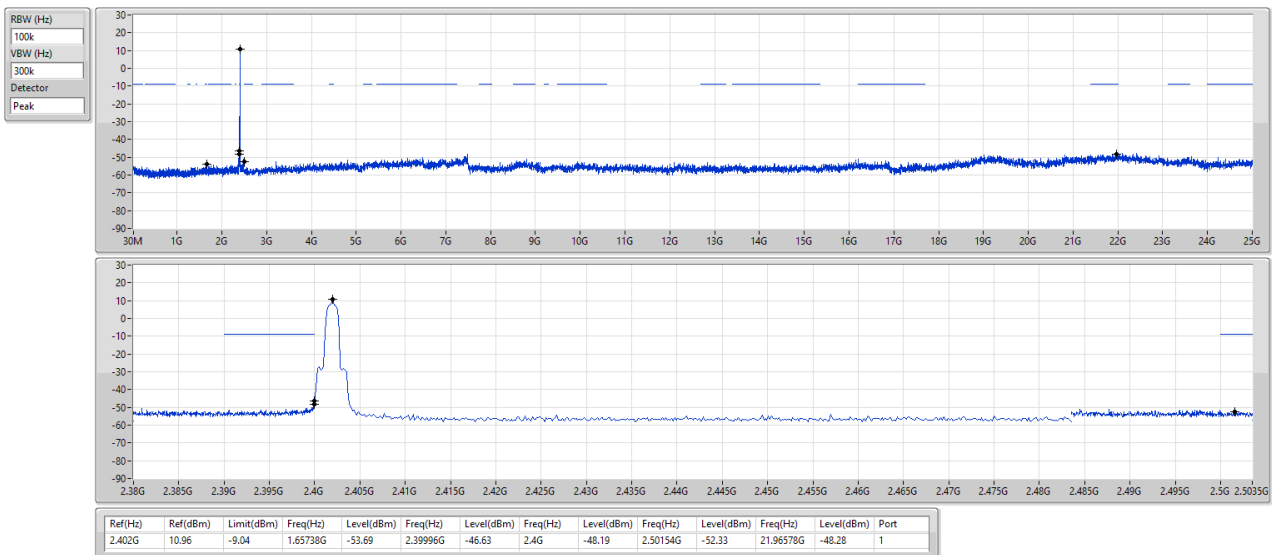
2480MHz



2.4-2.4835GHz\_BT-EDR(2Mbps)

CSEndB-FS

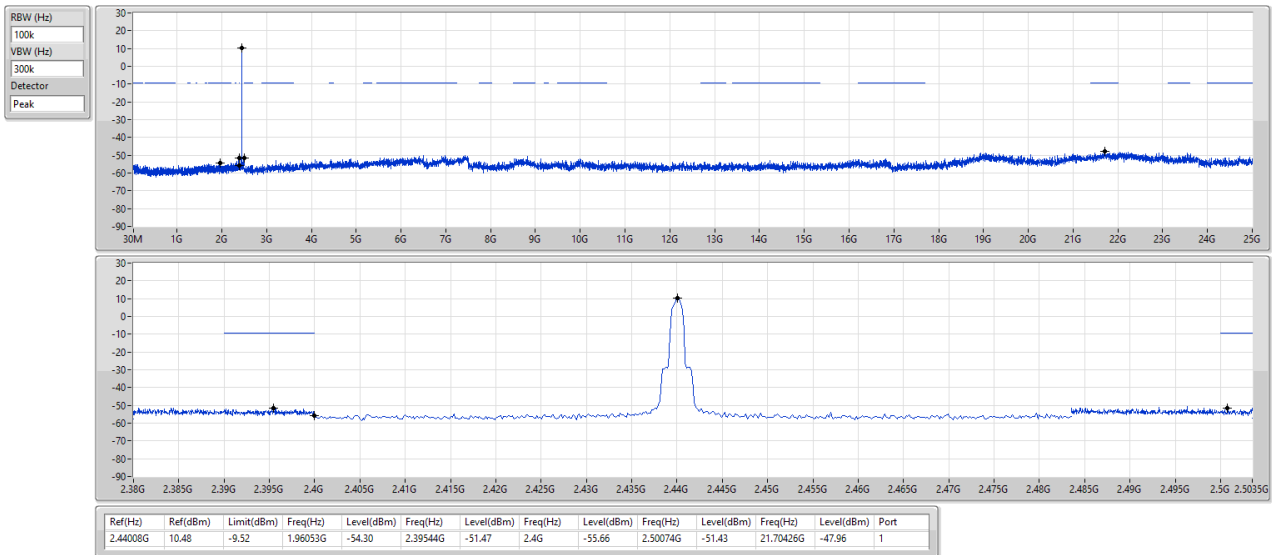
2402MHz



2.4-2.4835GHz\_BT-EDR(2Mbps)

CSEndB-FS

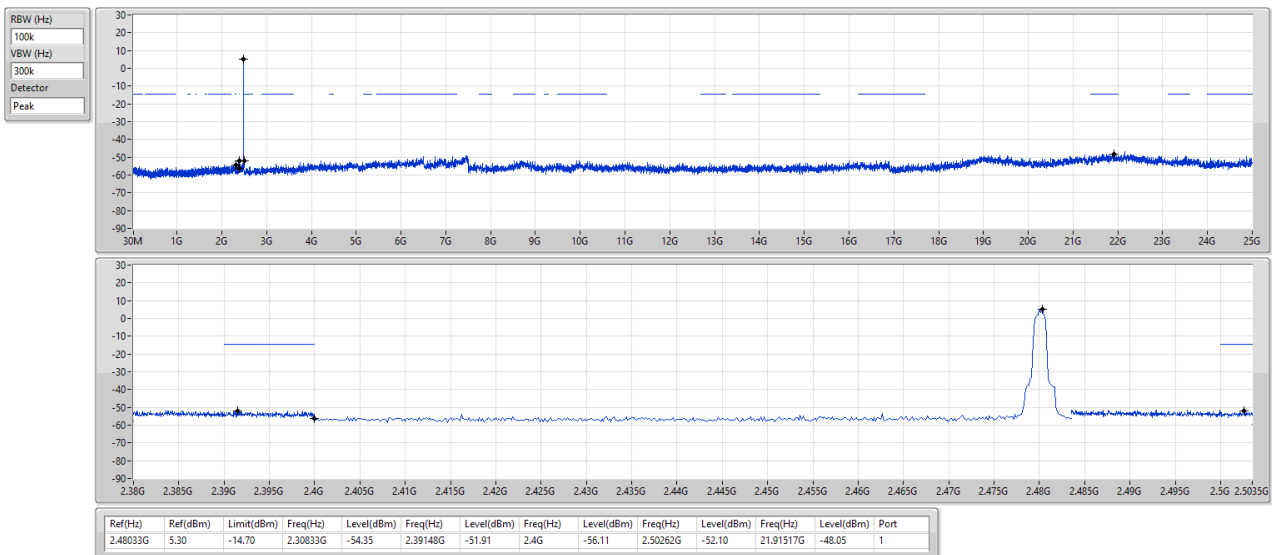
2440MHz



2.4-2.4835GHz\_BT-EDR(2Mbps)

CSEndB-FS

2480MHz

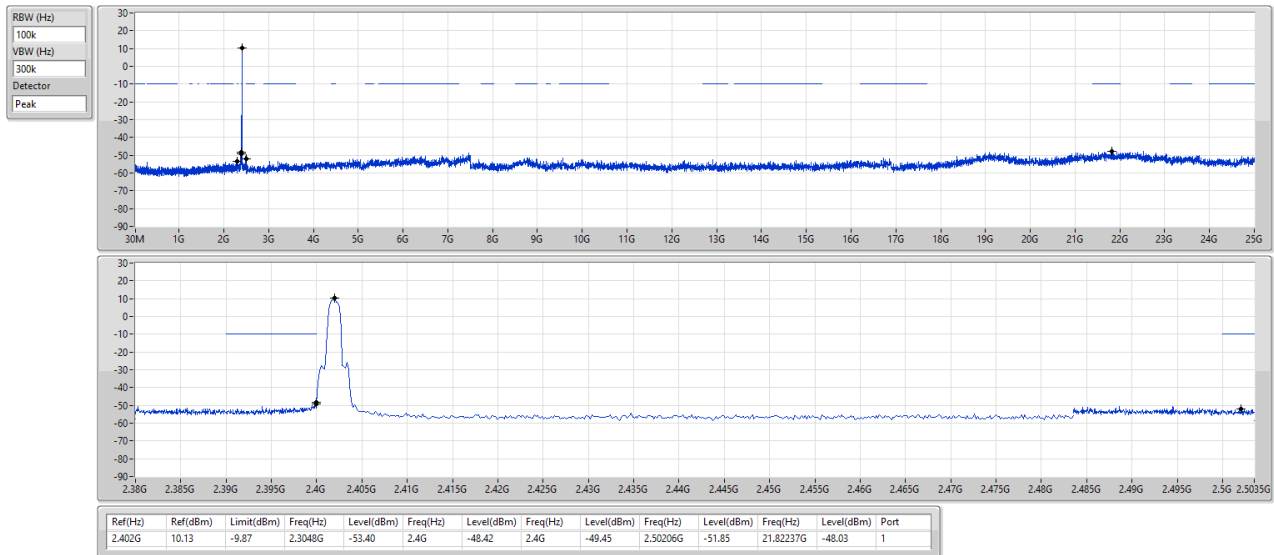


2.4-2.4835GHz\_BT-EDR(3Mbps)

CSEndB-FS

2402MHz

29/01/2024

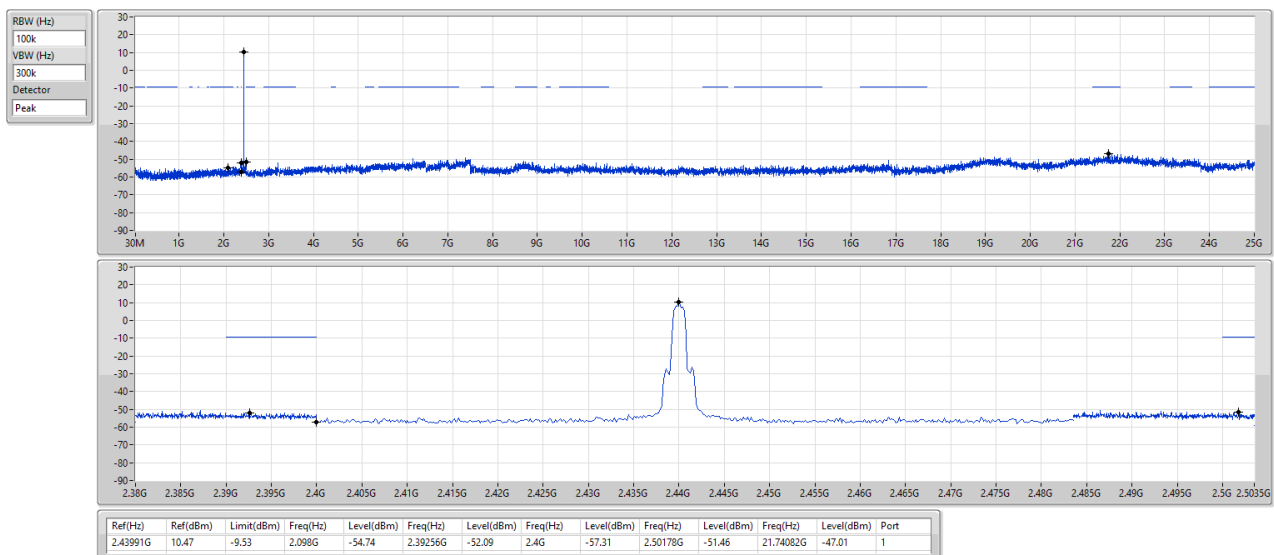


2.4-2.4835GHz\_BT-EDR(3Mbps)

CSEndB-FS

2440MHz

29/01/2024



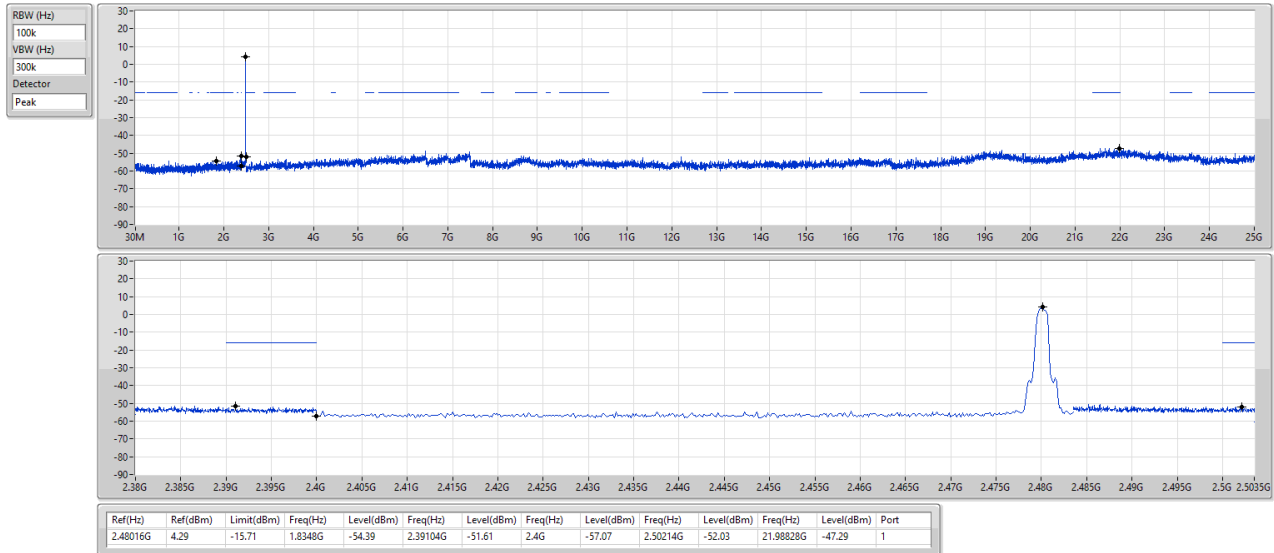
2.4-2.4835GHz\_BT-EDR(3Mbps)

CSEndB-FS

2480MHz

29/01/2024

Port 1





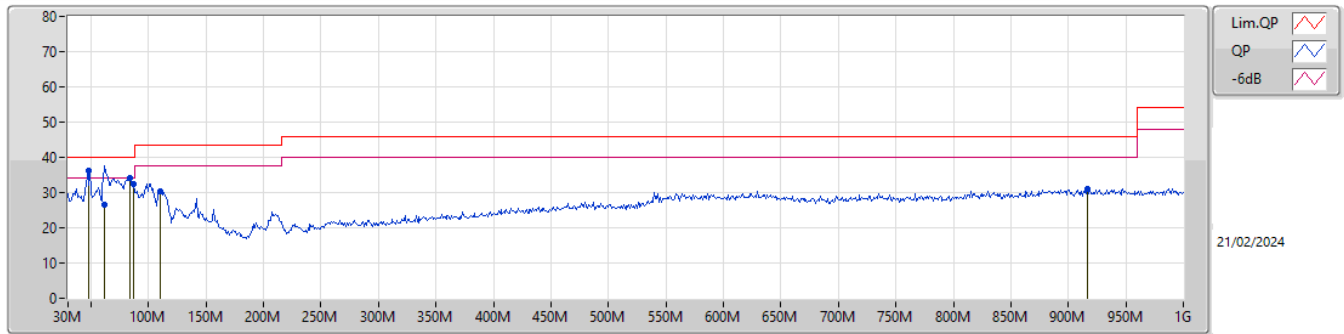
## ***Radiated Emissions below 1GHz***

## ***Appendix G.1***

### **Summary**

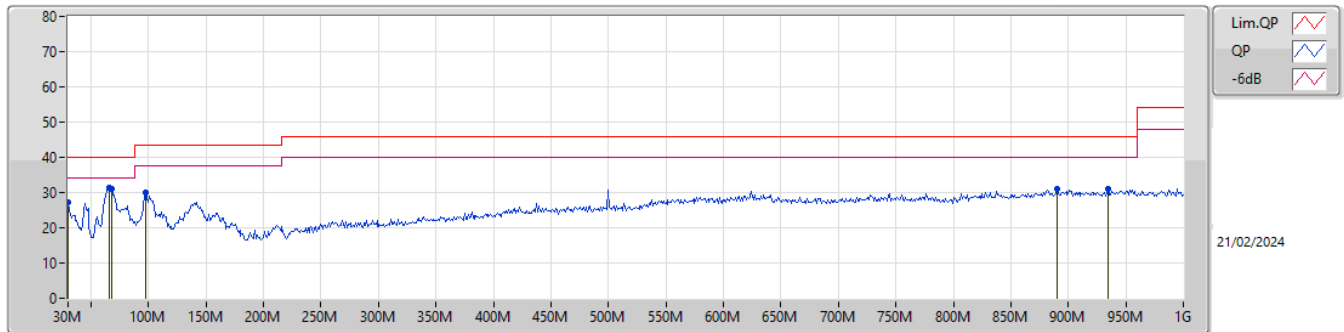
| Mode   | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Condition |
|--------|--------|------|--------------|-------------------|-------------------|----------------|-----------|
| Mode 4 | Pass   | PK   | 47.46M       | 36.29             | 40.00             | -3.71          | Vertical  |

### Mode 4



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|--|--|
| PK   | 47.46M       | 36.29             | 40.00             | -3.71          | -16.16         | 3           | Vertical  | 0              | 3.00          | -       | 52.45         | 14.86      | 0.50       | 31.52      |  |  |
| QP   | 62.01M       | 26.70             | 40.00             | -13.30         | -18.62         | 3           | Vertical  | 0              | 3.00          | "Worst" | 45.32         | 12.53      | 0.60       | 31.75      |  |  |
| PK   | 84.32M       | 34.01             | 40.00             | -5.99          | -17.04         | 3           | Vertical  | 228            | 1.25          | -       | 51.05         | 13.91      | 0.76       | 31.71      |  |  |
| PK   | 87.23M       | 32.58             | 40.00             | -7.42          | -16.29         | 3           | Vertical  | 284            | 1.00          | -       | 48.87         | 14.62      | 0.78       | 31.69      |  |  |
| PK   | 110.51M      | 30.30             | 43.50             | -13.20         | -12.60         | 3           | Vertical  | 170            | 1.00          | -       | 42.90         | 18.11      | 0.88       | 31.59      |  |  |
| PK   | 916.58M      | 31.03             | 46.00             | -14.97         | -2.31          | 3           | Vertical  | 0              | 3.00          | -       | 33.34         | 26.79      | 3.12       | 32.22      |  |  |

### Mode 4



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|--|--|
| PK   | 30M          | 27.16             | 40.00             | -12.84         | -7.26          | 3           | Horizontal | 360            | 1.00          | -       | 34.42         | 23.56      | 0.33       | 31.15      |  |  |
| PK   | 65.89M       | 31.23             | 40.00             | -8.77          | -18.78         | 3           | Horizontal | 0              | 2.00          | "Worst" | 50.01         | 12.34      | 0.63       | 31.75      |  |  |
| PK   | 67.83M       | 30.93             | 40.00             | -9.07          | -18.72         | 3           | Horizontal | 0              | 2.00          | -       | 49.65         | 12.38      | 0.64       | 31.74      |  |  |
| PK   | 97.9M        | 29.86             | 43.50             | -13.64         | -14.01         | 3           | Horizontal | 285            | 2.00          | -       | 43.87         | 16.75      | 0.81       | 31.57      |  |  |
| PK   | 890.39M      | 30.99             | 46.00             | -15.01         | -2.57          | 3           | Horizontal | 41             | 1.00          | -       | 33.56         | 26.61      | 3.04       | 32.22      |  |  |
| PK   | 935.01M      | 30.89             | 46.00             | -15.11         | -2.45          | 3           | Horizontal | 144            | 1.50          | -       | 33.34         | 26.64      | 3.17       | 32.26      |  |  |

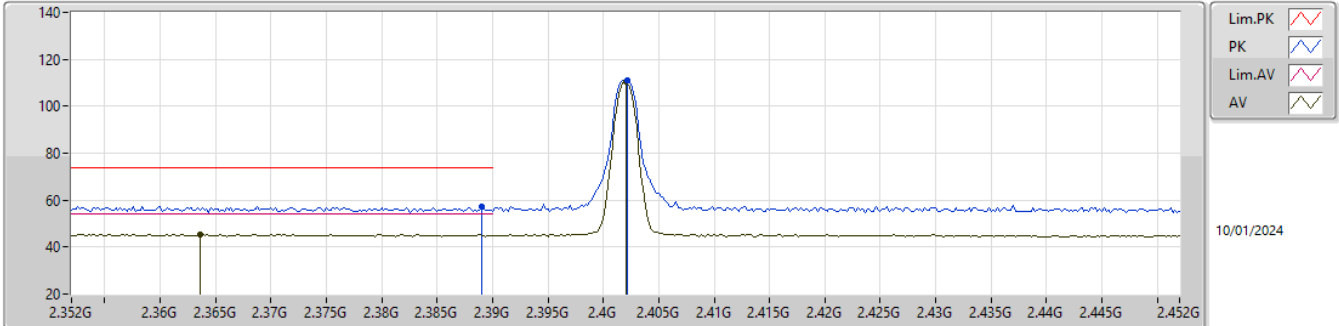


**Summary**

| 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 | -      | -    | -            | -                 | -                 | -              | -           | -         | -              | -             | -        |
| BT-BR(1Mbps)  | Pass   | AV   | 2.4835G      | 52.74             | 54.00             | -1.26          | 3           | Vertical  | 126            | 1.01          | -        |

2.4-2.4835GHz\_BT-BR(1Mbps)

2402MHz\_TX

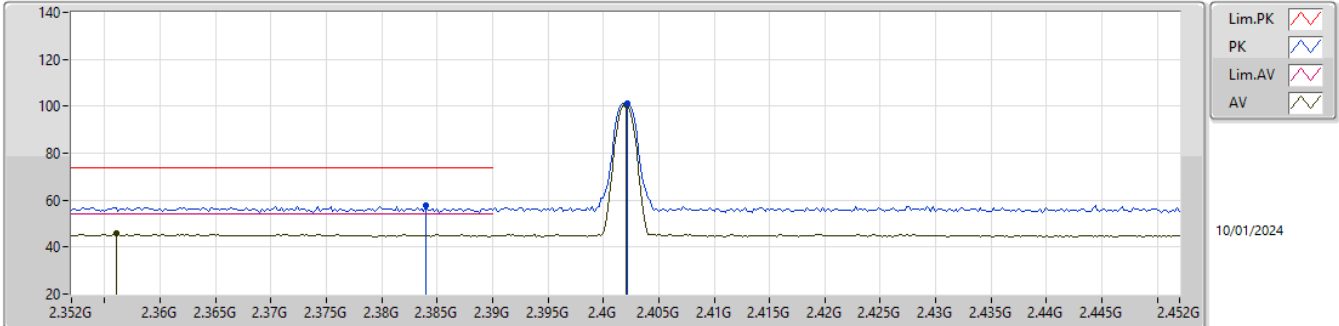


EUT\_Z\_1TX  
Setting 9  
01-U-Y-1

| 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   | 2.389G       | 57.41             | 74.00             | -16.59         | 25.06         | 3           | Vertical  | 108            | 1.10          | -       | 27.70      | 4.65       | -          |  |  |  |  |
| AV   | 2.3636G      | 45.51             | 54.00             | -8.49          | 13.03         | 3           | Vertical  | 108            | 1.10          | -       | 27.86      | 4.62       | -          |  |  |  |  |
| PK   | 2.4022G      | 111.04            | Inf               | -Inf           | 78.69         | 3           | Vertical  | 108            | 1.10          | -       | 27.68      | 4.67       | -          |  |  |  |  |
| AV   | 2.402G       | 110.50            | Inf               | -Inf           | 78.15         | 3           | Vertical  | 108            | 1.10          | -       | 27.68      | 4.67       | -          |  |  |  |  |

## 2.4-2.4835GHz\_BT-BR(1Mbps)

### 2402MHz\_TX

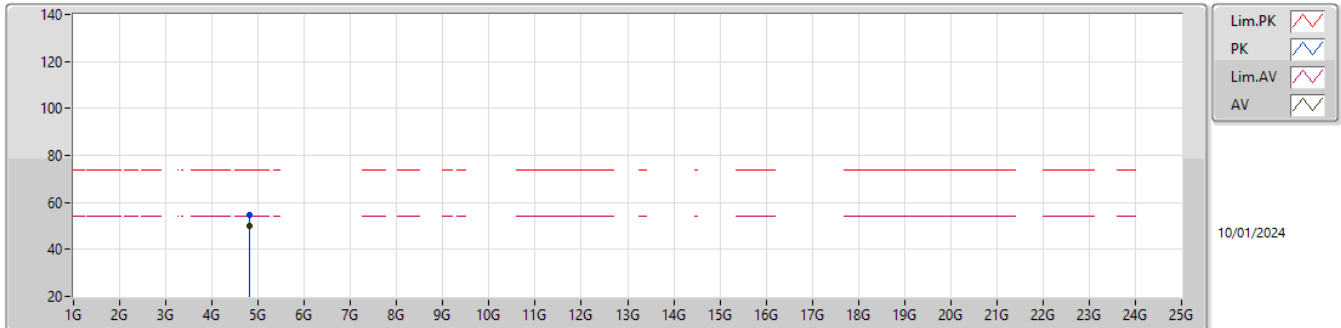


EUT\_Z\_1TX  
Setting 9  
01-U-Y-1

| 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   | 2.384G       | 57.67             | 74.00             | -16.33         | 25.32         | 3           | Horizontal | 265            | 1.80          | -       | 27.70      | 4.65       | -          |  |  |  |  |
| AV   | 2.356G       | 45.66             | 54.00             | -8.34          | 13.11         | 3           | Horizontal | 265            | 1.80          | -       | 27.94      | 4.61       | -          |  |  |  |  |
| PK   | 2.402G       | 101.39            | Inf               | -Inf           | 69.04         | 3           | Horizontal | 265            | 1.80          | -       | 27.68      | 4.67       | -          |  |  |  |  |
| AV   | 2.402G       | 100.77            | Inf               | -Inf           | 68.42         | 3           | Horizontal | 265            | 1.80          | -       | 27.68      | 4.67       | -          |  |  |  |  |

2.4-2.4835GHz\_BT-BR(1Mbps)

2402MHz\_TX

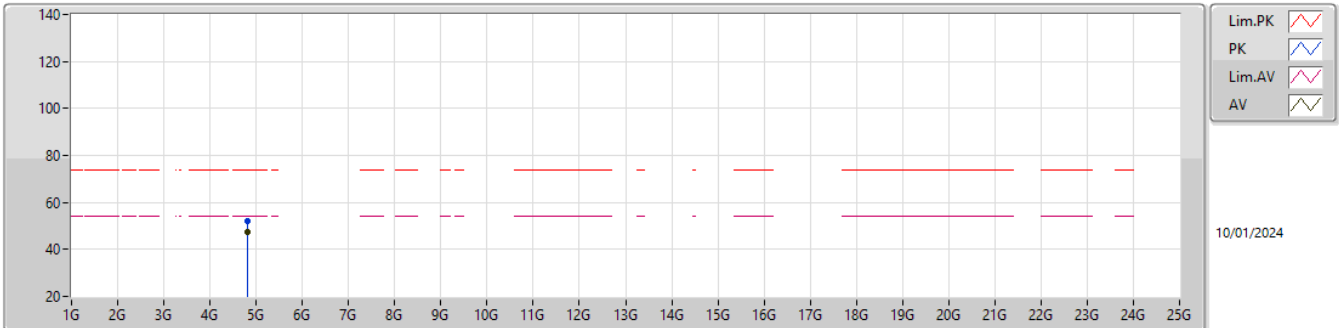


EUT\_Z\_1TX  
Setting 8  
01-U-Y-1

| 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   | 4.80415G | 54.42    | 74.00    | -19.58 | 49.18  | 3    | Vertical  | 118     | 2.15   | -       | 31.30 | 6.91 | 32.97 |  |  |  |
| AV   | 4.80401G | 50.18    | 54.00    | -3.82  | 44.94  | 3    | Vertical  | 118     | 2.15   | -       | 31.30 | 6.91 | 32.97 |  |  |  |

## 2.4-2.4835GHz\_BT-BR(1Mbps)

## 2402MHz\_TX

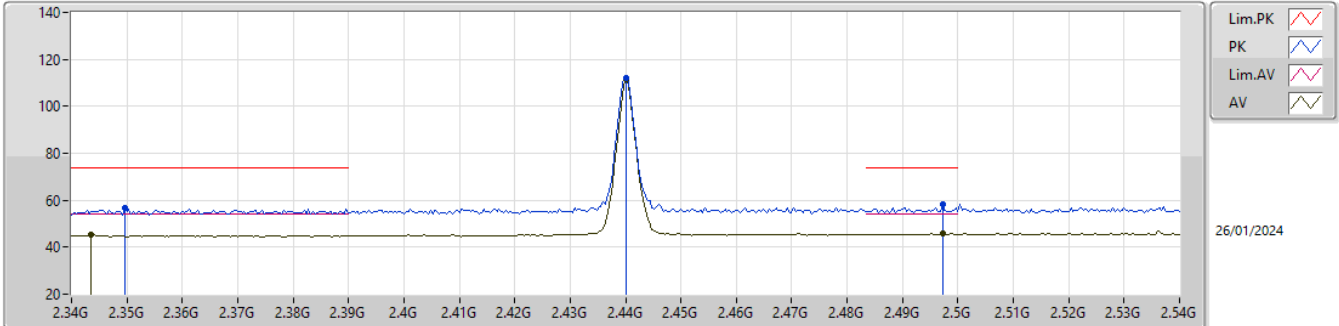


EUT\_Z\_1TX  
Setting 8  
01-U-Y-1

| 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   | 4.80375G     | 52.30             | 74.00             | -21.70         | 47.06         | 3           | Horizontal | 138            | 1.00          | -       | 31.30      | 6.91       | 32.97      |  |  |  |
| AV   | 4.80403G     | 47.52             | 54.00             | -6.48          | 42.28         | 3           | Horizontal | 138            | 1.00          | -       | 31.30      | 6.91       | 32.97      |  |  |  |

## 2.4-2.4835GHz\_BT-BR(1Mbps)

### 2440MHz\_TX

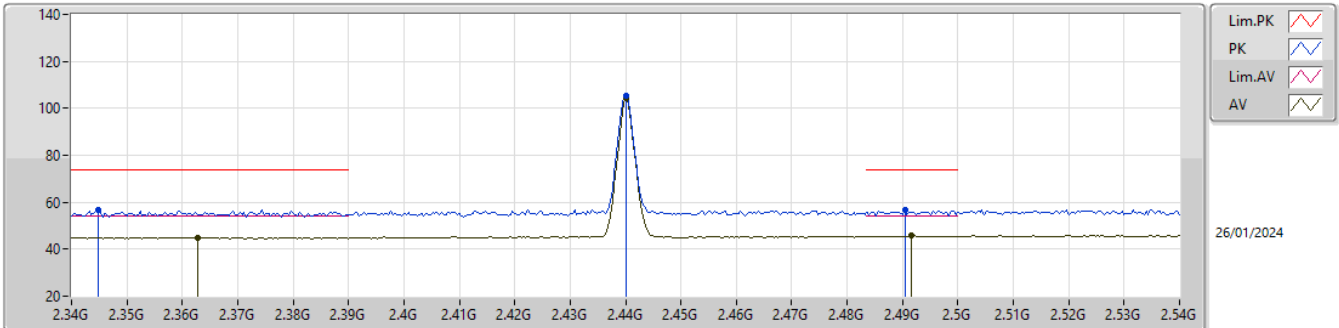


EUT\_Z\_1TX  
Setting 9  
05-C-G-4

| 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   | 2.3496G      | 56.64             | 74.00             | -17.36         | 24.78         | 3           | Vertical  | 123            | 1.02          | -       | 27.20      | 4.66       | -          |  |  |  |
| AV   | 2.3436G      | 45.46             | 54.00             | -8.54          | 13.61         | 3           | Vertical  | 123            | 1.02          | -       | 27.20      | 4.65       | -          |  |  |  |
| PK   | 2.44G        | 112.14            | Inf               | -Inf           | 79.68         | 3           | Vertical  | 123            | 1.02          | -       | 27.70      | 4.76       | -          |  |  |  |
| AV   | 2.44G        | 111.40            | Inf               | -Inf           | 78.94         | 3           | Vertical  | 123            | 1.02          | -       | 27.70      | 4.76       | -          |  |  |  |
| PK   | 2.4972G      | 58.03             | 74.00             | -15.97         | 25.30         | 3           | Vertical  | 123            | 1.02          | -       | 27.90      | 4.83       | -          |  |  |  |
| AV   | 2.4972G      | 45.73             | 54.00             | -8.27          | 13.00         | 3           | Vertical  | 123            | 1.02          | -       | 27.90      | 4.83       | -          |  |  |  |

## 2.4-2.4835GHz\_BT-BR(1Mbps)

### 2440MHz\_TX

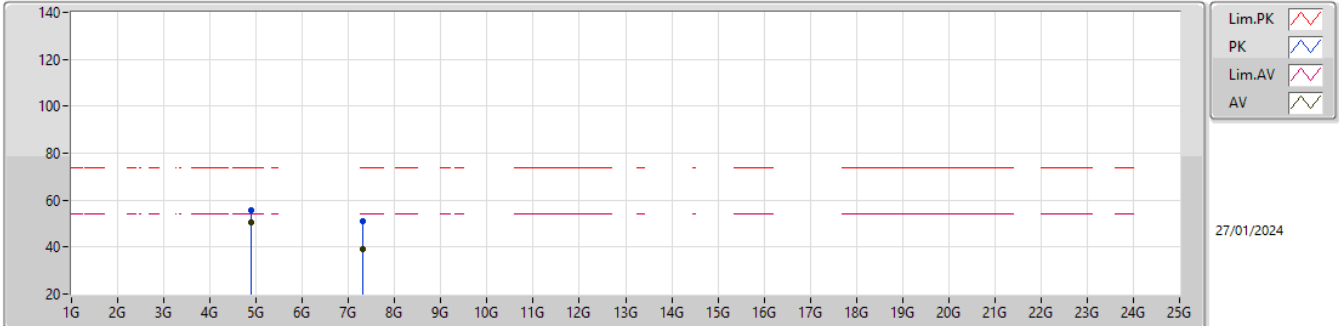


EUT\_Z\_1TX  
Setting 9  
05-C-G-4

| 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   | 2.3448G      | 56.58             | 74.00             | -17.42         | 24.73         | 3           | Horizontal | 260            | 1.68          | -       | 27.20      | 4.65       | -          |  |  |  |
| AV   | 2.3628G      | 44.93             | 54.00             | -9.07          | 12.96         | 3           | Horizontal | 260            | 1.68          | -       | 27.30      | 4.67       | -          |  |  |  |
| PK   | 2.44G        | 105.25            | Inf               | -Inf           | 72.79         | 3           | Horizontal | 260            | 1.68          | -       | 27.70      | 4.76       | -          |  |  |  |
| AV   | 2.44G        | 104.51            | Inf               | -Inf           | 72.05         | 3           | Horizontal | 260            | 1.68          | -       | 27.70      | 4.76       | -          |  |  |  |
| PK   | 2.4904G      | 56.64             | 74.00             | -17.36         | 23.92         | 3           | Horizontal | 260            | 1.68          | -       | 27.90      | 4.82       | -          |  |  |  |
| AV   | 2.4916G      | 45.71             | 54.00             | -8.29          | 12.99         | 3           | Horizontal | 260            | 1.68          | -       | 27.90      | 4.82       | -          |  |  |  |

## 2.4-2.4835GHz\_BT-BR(1Mbps)

### 2440MHz\_TX

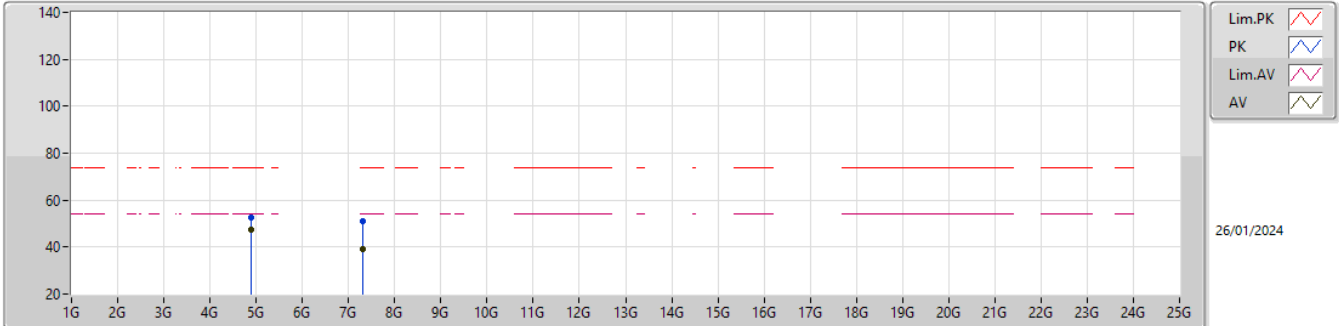


EUT\_Z\_1TX  
Setting 8  
05-C-G-4

| 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   | 4.88024G     | 55.51             | 74.00             | -18.49         | 51.21         | 3           | Vertical  | 113            | 2.18          | -       | 32.70      | 7.19       | 35.59      |  |  |  |
| AV   | 4.88G        | 50.65             | 54.00             | -3.35          | 46.35         | 3           | Vertical  | 113            | 2.18          | -       | 32.70      | 7.19       | 35.59      |  |  |  |
| PK   | 7.31524G     | 51.21             | 74.00             | -22.79         | 40.53         | 3           | Vertical  | 158            | 1.61          | -       | 36.84      | 8.61       | 34.77      |  |  |  |
| AV   | 7.312G       | 39.15             | 54.00             | -14.85         | 28.47         | 3           | Vertical  | 158            | 1.61          | -       | 36.85      | 8.60       | 34.77      |  |  |  |

## 2.4-2.4835GHz\_BT-BR(1Mbps)

### 2440MHz\_TX

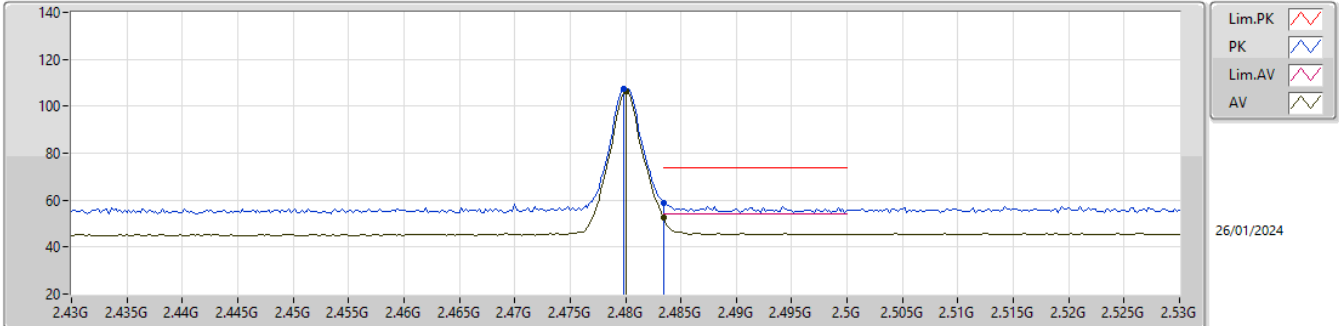


EUT\_Z\_1TX  
Setting 8  
05-C-G-4

| 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   | 4.88024G     | 52.84             | 74.00             | -21.16         | 48.54         | 3           | Horizontal | 150            | 1.80          | -       | 32.70      | 7.19       | 35.59      |  |  |  |
| AV   | 4.87996G     | 47.24             | 54.00             | -6.76          | 42.94         | 3           | Horizontal | 150            | 1.80          | -       | 32.70      | 7.19       | 35.59      |  |  |  |
| PK   | 7.31456G     | 51.08             | 74.00             | -22.92         | 40.40         | 3           | Horizontal | 282            | 1.65          | -       | 36.84      | 8.61       | 34.77      |  |  |  |
| AV   | 7.31128G     | 39.14             | 54.00             | -14.86         | 28.46         | 3           | Horizontal | 282            | 1.65          | -       | 36.85      | 8.60       | 34.77      |  |  |  |

## 2.4-2.4835GHz\_BT-BR(1Mbps)

### 2480MHz\_TX

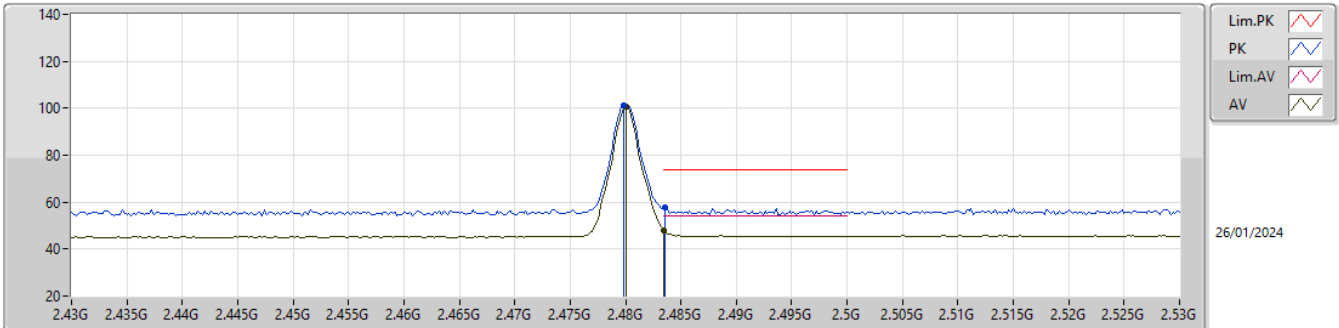


EUT\_Z\_1TX  
Setting 8  
05-C-G-4

| 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   | 2.4798G      | 107.31            | Inf               | -Inf           | 74.60         | 3           | Vertical  | 126            | 1.01          | -       | 27.90      | 4.81       | -          |  |  |  |
| AV   | 2.48G        | 106.55            | Inf               | -Inf           | 73.84         | 3           | Vertical  | 126            | 1.01          | -       | 27.90      | 4.81       | -          |  |  |  |
| PK   | 2.4835G      | 58.57             | 74.00             | -15.43         | 25.86         | 3           | Vertical  | 126            | 1.01          | -       | 27.90      | 4.81       | -          |  |  |  |
| AV   | 2.4835G      | 52.74             | 54.00             | -1.26          | 20.03         | 3           | Vertical  | 126            | 1.01          | -       | 27.90      | 4.81       | -          |  |  |  |

## 2.4-2.4835GHz\_BT-BR(1Mbps)

### 2480MHz\_TX

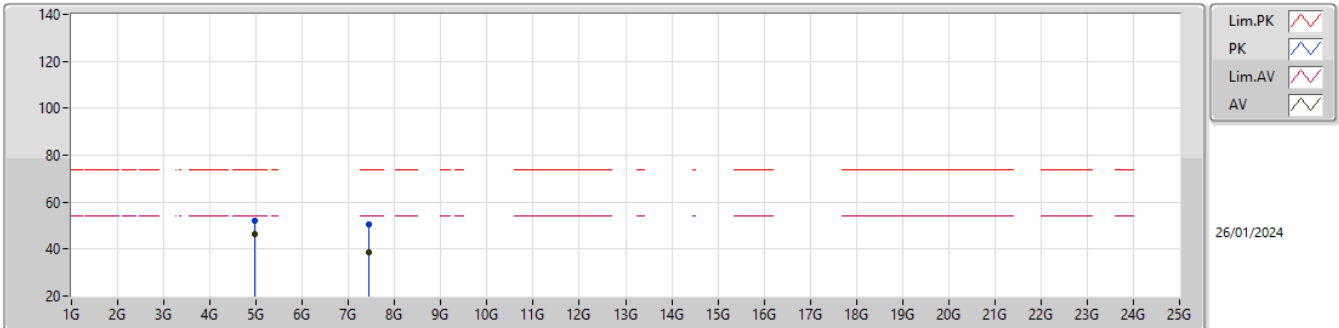


EUT\_Z\_1TX  
Setting 8  
05-C-G-4

| 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   | 2.4798G      | 101.25            | Inf               | -Inf           | 68.54         | 3           | Horizontal | 253            | 2.60          | -       | 27.90      | 4.81       | -          |  |  |  |  |
| AV   | 2.48G        | 100.51            | Inf               | -Inf           | 67.80         | 3           | Horizontal | 253            | 2.60          | -       | 27.90      | 4.81       | -          |  |  |  |  |
| PK   | 2.4836G      | 57.53             | 74.00             | -16.47         | 24.82         | 3           | Horizontal | 253            | 2.60          | -       | 27.90      | 4.81       | -          |  |  |  |  |
| AV   | 2.4835G      | 47.97             | 54.00             | -6.03          | 15.26         | 3           | Horizontal | 253            | 2.60          | -       | 27.90      | 4.81       | -          |  |  |  |  |

## 2.4-2.4835GHz\_BT-BR(1Mbps)

### 2480MHz\_TX

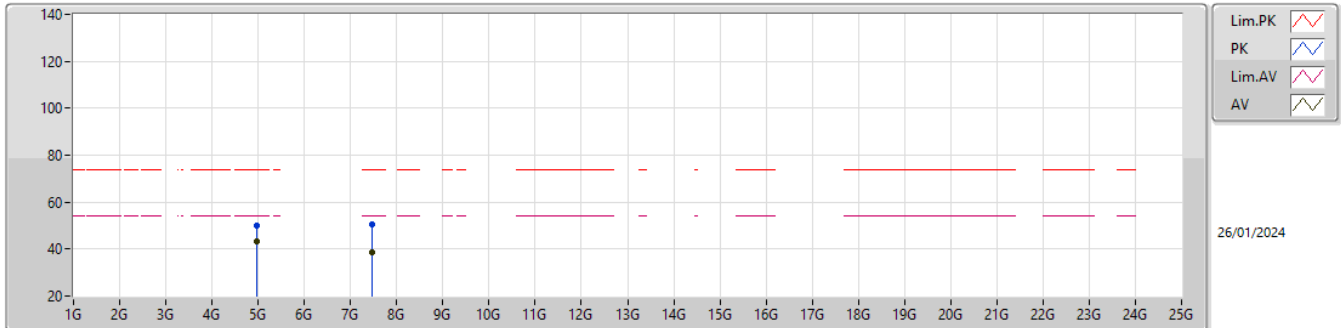


EUT\_Z\_1TX  
Setting 8  
01-U-Y-1

| 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   | 4.95986G     | 51.82             | 74.00             | -22.18         | 46.15         | 3           | Vertical  | 69             | 2.27          | -       | 31.54      | 7.07       | 32.94      |  |  |  |
| AV   | 4.95997G     | 46.14             | 54.00             | -7.86          | 40.47         | 3           | Vertical  | 69             | 2.27          | -       | 31.54      | 7.07       | 32.94      |  |  |  |
| PK   | 7.431G       | 50.26             | 74.00             | -23.74         | 38.38         | 3           | Vertical  | 314            | 2.28          | -       | 36.29      | 8.73       | 33.14      |  |  |  |
| AV   | 7.4366G      | 38.67             | 54.00             | -15.33         | 26.76         | 3           | Vertical  | 314            | 2.28          | -       | 36.32      | 8.73       | 33.14      |  |  |  |

## 2.4-2.4835GHz\_BT-BR(1Mbps)

### 2480MHz\_TX

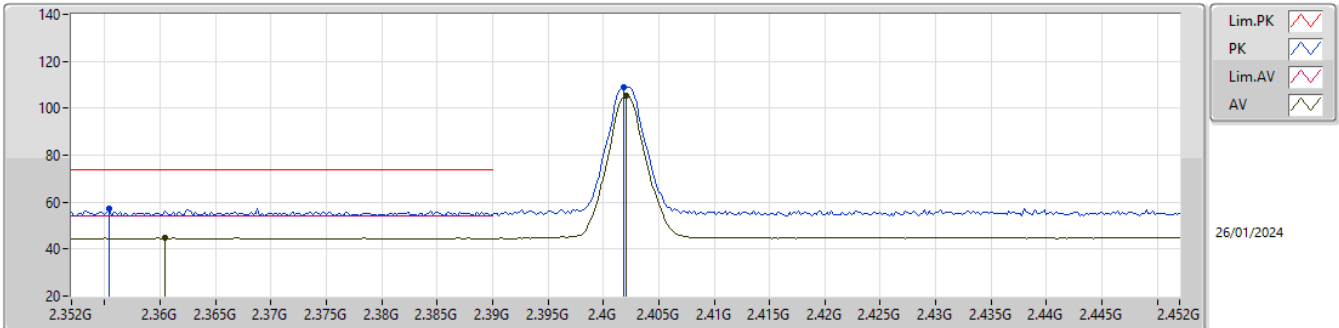


EUT\_Z\_1TX  
Setting 8  
01-U-Y-1

| 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   | 4.96033G     | 50.24             | 74.00             | -23.76         | 44.57         | 3           | Horizontal | 142            | 2.12          | -       | 31.54      | 7.07       | 32.94      |  |  |  |
| AV   | 4.96004G     | 43.52             | 54.00             | -10.48         | 37.85         | 3           | Horizontal | 142            | 2.12          | -       | 31.54      | 7.07       | 32.94      |  |  |  |
| PK   | 7.4724G      | 50.32             | 74.00             | -23.68         | 38.37         | 3           | Horizontal | 82             | 1.48          | -       | 36.36      | 8.74       | 33.15      |  |  |  |
| AV   | 7.462G       | 38.78             | 54.00             | -15.22         | 26.81         | 3           | Horizontal | 82             | 1.48          | -       | 36.38      | 8.74       | 33.15      |  |  |  |

## 2.4-2.4835GHz\_BT-EDR(3Mbps)

### 2402MHz\_TX

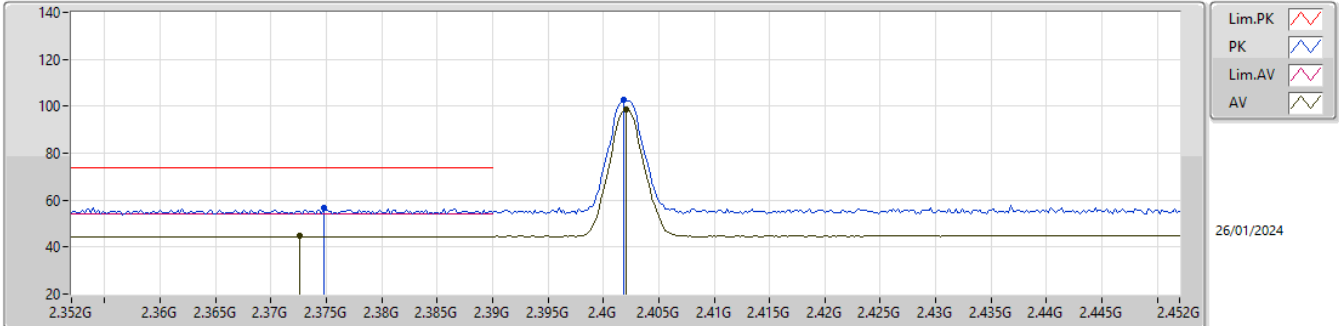


EUT\_Z\_1TX  
Setting 9  
05-C-G-4

| 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   | 2.3554G      | 57.20             | 74.00             | -16.80         | 25.29         | 3           | Vertical  | 107            | 1.25          | -       | 27.25      | 4.66       | -          |  |  |  |
| AV   | 2.3604G      | 44.69             | 54.00             | -9.31          | 12.72         | 3           | Vertical  | 107            | 1.25          | -       | 27.30      | 4.67       | -          |  |  |  |
| PK   | 2.4018G      | 109.16            | Inf               | -Inf           | 76.95         | 3           | Vertical  | 107            | 1.25          | -       | 27.50      | 4.71       | -          |  |  |  |
| AV   | 2.402G       | 105.12            | Inf               | -Inf           | 72.91         | 3           | Vertical  | 107            | 1.25          | -       | 27.50      | 4.71       | -          |  |  |  |

## 2.4-2.4835GHz\_BT-EDR(3Mbps)

### 2402MHz\_TX

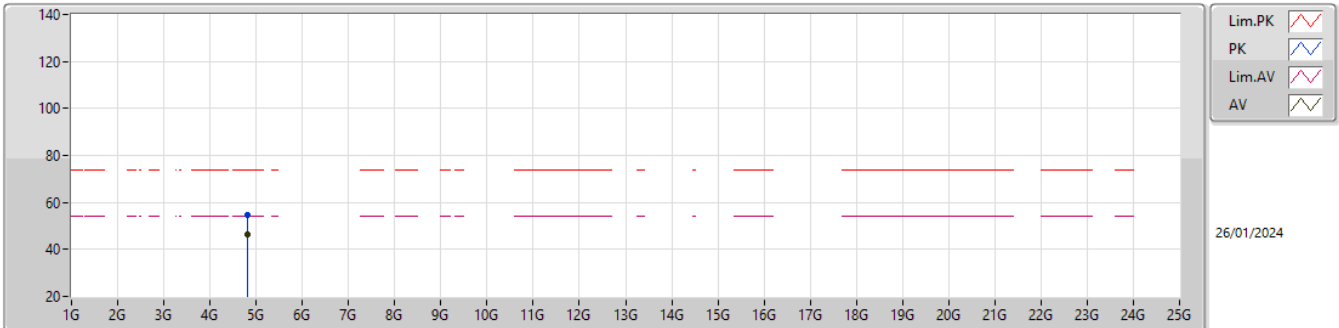


EUT\_Z\_1TX  
Setting 9  
05-C-G-4

| 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   | 2.3748G      | 56.70             | 74.00             | -17.30         | 24.72         | 3           | Horizontal | 252            | 2.75          | -       | 27.30      | 4.68       | -          |  |  |  |  |
| AV   | 2.3726G      | 44.64             | 54.00             | -9.36          | 12.66         | 3           | Horizontal | 252            | 2.75          | -       | 27.30      | 4.68       | -          |  |  |  |  |
| PK   | 2.4018G      | 102.55            | Inf               | -Inf           | 70.34         | 3           | Horizontal | 252            | 2.75          | -       | 27.50      | 4.71       | -          |  |  |  |  |
| AV   | 2.402G       | 98.44             | Inf               | -Inf           | 66.23         | 3           | Horizontal | 252            | 2.75          | -       | 27.50      | 4.71       | -          |  |  |  |  |

## 2.4-2.4835GHz\_BT-EDR(3Mbps)

## 2402MHz\_TX

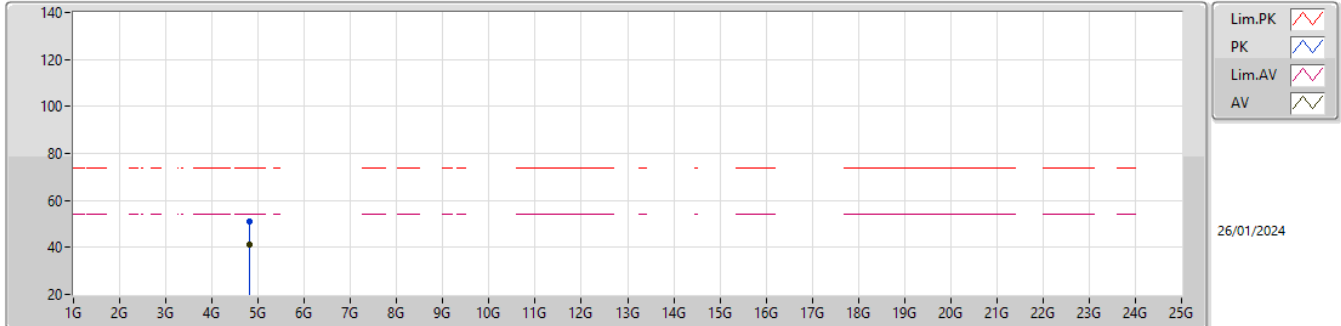


EUT\_Z\_1TX  
Setting 9  
05-C-G-4

| 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   | 4.80396G     | 54.81             | 74.00             | -19.19         | 50.86         | 3           | Vertical  | 126            | 2.07          | -       | 32.42      | 7.14       | 35.61      |  |  |  |
| AV   | 4.804G       | 46.32             | 54.00             | -7.68          | 42.37         | 3           | Vertical  | 126            | 2.07          | -       | 32.42      | 7.14       | 35.61      |  |  |  |

2.4-2.4835GHz\_BT-EDR(3Mbps)

2402MHz\_TX

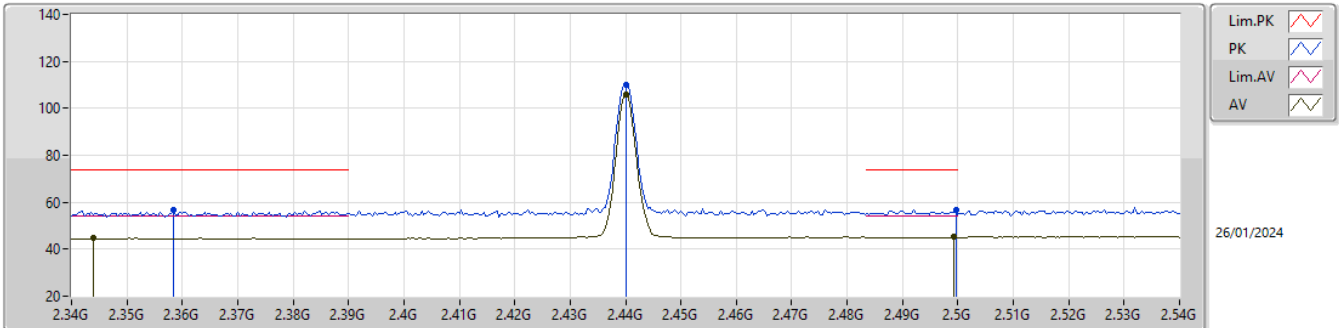


EUT\_Z\_1TX  
Setting 9  
05-C-G-4

| 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   | 4.80368G     | 51.03             | 74.00             | -22.97         | 47.08         | 3           | Horizontal | 154            | 1.80          | -       | 32.42      | 7.14       | 35.61      |  |  |  |
| AV   | 4.80404G     | 41.05             | 54.00             | -12.95         | 37.10         | 3           | Horizontal | 154            | 1.80          | -       | 32.42      | 7.14       | 35.61      |  |  |  |

## 2.4-2.4835GHz\_BT-EDR(3Mbps)

### 2440MHz\_TX

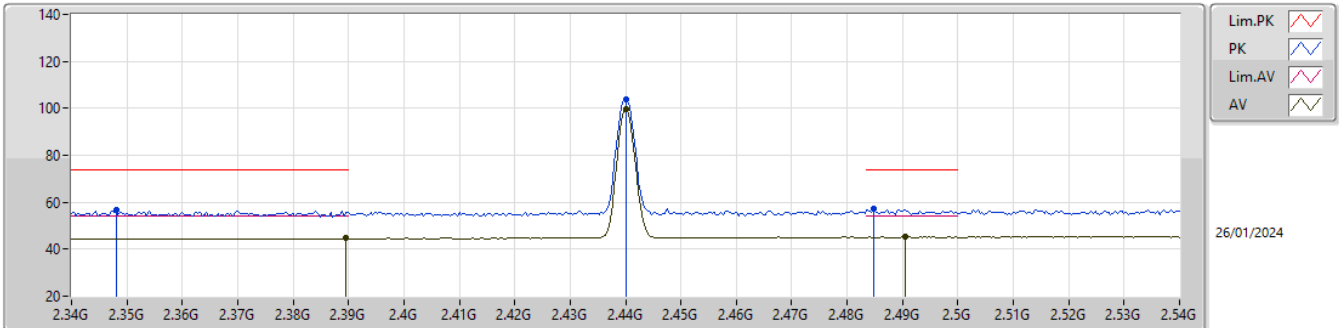


EUT\_Z\_1TX  
Setting 9  
05-C-G-4

| 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   | 2.3584G      | 56.91             | 74.00             | -17.09         | 24.96         | 3           | Vertical  | 122            | 1.03          | -       | 27.28      | 4.67       | -          |  |  |  |
| AV   | 2.344G       | 44.77             | 54.00             | -9.23          | 12.92         | 3           | Vertical  | 122            | 1.03          | -       | 27.20      | 4.65       | -          |  |  |  |
| PK   | 2.44G        | 110.11            | Inf               | -Inf           | 77.65         | 3           | Vertical  | 122            | 1.03          | -       | 27.70      | 4.76       | -          |  |  |  |
| AV   | 2.44G        | 106.06            | Inf               | -Inf           | 73.60         | 3           | Vertical  | 122            | 1.03          | -       | 27.70      | 4.76       | -          |  |  |  |
| PK   | 2.4996G      | 56.86             | 74.00             | -17.14         | 24.13         | 3           | Vertical  | 122            | 1.03          | -       | 27.90      | 4.83       | -          |  |  |  |
| AV   | 2.4992G      | 45.10             | 54.00             | -8.90          | 12.37         | 3           | Vertical  | 122            | 1.03          | -       | 27.90      | 4.83       | -          |  |  |  |

## 2.4-2.4835GHz\_BT-EDR(3Mbps)

## 2440MHz\_TX

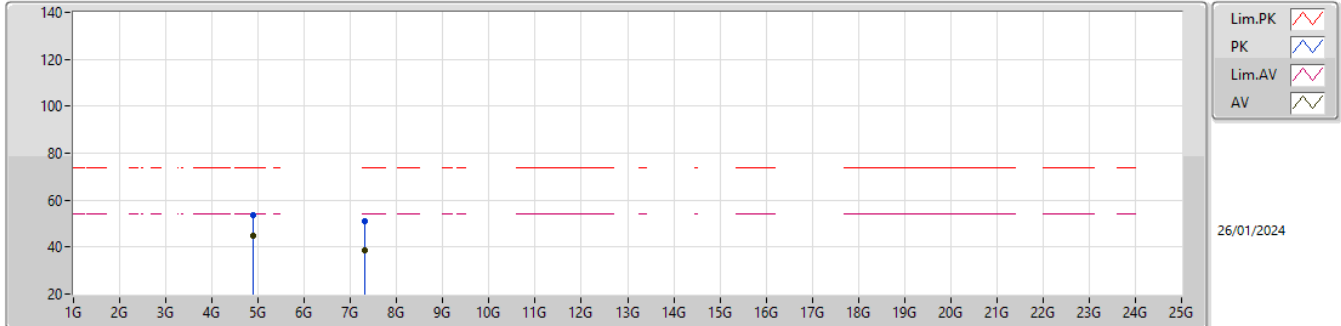


EUT\_Z\_1TX  
Setting 9  
05-C-G-4

| 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   | 2.348G       | 56.70             | 74.00             | -17.30         | 24.84         | 3           | Horizontal | 247            | 2.97          | -       | 27.20      | 4.66       | -          |  |  |  |
| AV   | 2.3896G      | 44.58             | 54.00             | -9.42          | 12.48         | 3           | Horizontal | 247            | 2.97          | -       | 27.40      | 4.70       | -          |  |  |  |
| PK   | 2.44G        | 103.73            | Inf               | -Inf           | 71.27         | 3           | Horizontal | 247            | 2.97          | -       | 27.70      | 4.76       | -          |  |  |  |
| AV   | 2.44G        | 99.64             | Inf               | -Inf           | 67.18         | 3           | Horizontal | 247            | 2.97          | -       | 27.70      | 4.76       | -          |  |  |  |
| PK   | 2.4848G      | 57.02             | 74.00             | -16.98         | 24.30         | 3           | Horizontal | 247            | 2.97          | -       | 27.90      | 4.82       | -          |  |  |  |
| AV   | 2.4904G      | 45.16             | 54.00             | -8.84          | 12.44         | 3           | Horizontal | 247            | 2.97          | -       | 27.90      | 4.82       | -          |  |  |  |

## 2.4-2.4835GHz\_BT-EDR(3Mbps)

### 2440MHz\_TX

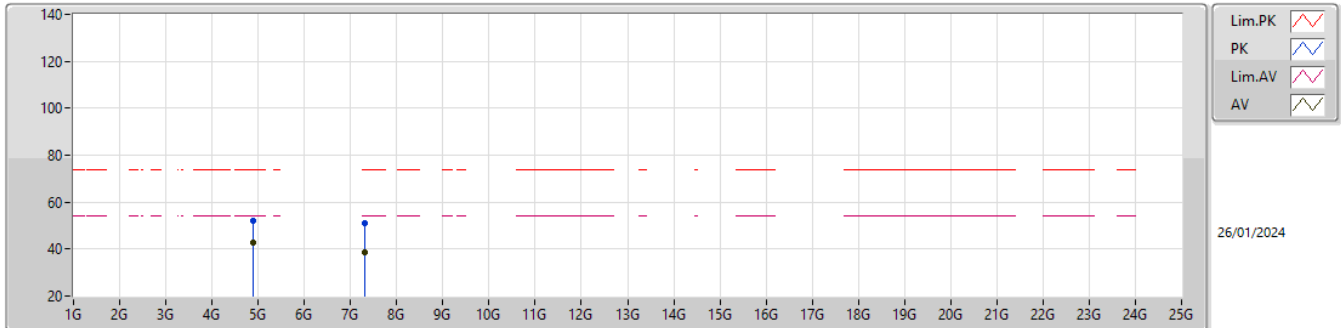


EUT\_Z\_1TX  
Setting 9  
05-C-G-4

| 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   | 4.88004G     | 53.86             | 74.00             | -20.14         | 49.56         | 3           | Vertical  | 122            | 1.80          | -       | 32.70      | 7.19       | 35.59      |  |  |  |
| AV   | 4.87996G     | 44.90             | 54.00             | -9.10          | 40.60         | 3           | Vertical  | 122            | 1.80          | -       | 32.70      | 7.19       | 35.59      |  |  |  |
| PK   | 7.31144G     | 51.25             | 74.00             | -22.75         | 40.57         | 3           | Vertical  | 293            | 1.63          | -       | 36.85      | 8.60       | 34.77      |  |  |  |
| AV   | 7.31168G     | 38.41             | 54.00             | -15.59         | 27.73         | 3           | Vertical  | 293            | 1.63          | -       | 36.85      | 8.60       | 34.77      |  |  |  |

## 2.4-2.4835GHz\_BT-EDR(3Mbps)

### 2440MHz\_TX

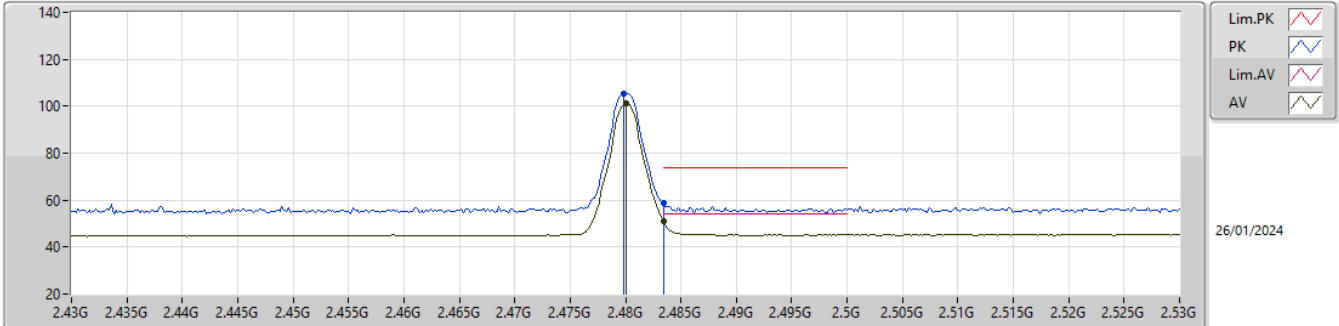


EUT\_Z\_1TX  
Setting 9  
05-C-G-4

| 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   | 4.88008G     | 52.01             | 74.00             | -21.99         | 47.71         | 3           | Horizontal | 150            | 1.80          | -       | 32.70      | 7.19       | 35.59      |  |  |  |
| AV   | 4.88G        | 42.79             | 54.00             | -11.21         | 38.49         | 3           | Horizontal | 150            | 1.80          | -       | 32.70      | 7.19       | 35.59      |  |  |  |
| PK   | 7.31032G     | 51.21             | 74.00             | -22.79         | 40.53         | 3           | Horizontal | 344            | 2.58          | -       | 36.86      | 8.60       | 34.78      |  |  |  |
| AV   | 7.31012G     | 38.43             | 54.00             | -15.57         | 27.75         | 3           | Horizontal | 344            | 2.58          | -       | 36.86      | 8.60       | 34.78      |  |  |  |

## 2.4-2.4835GHz\_BT-EDR(3Mbps)

### 2480MHz\_TX

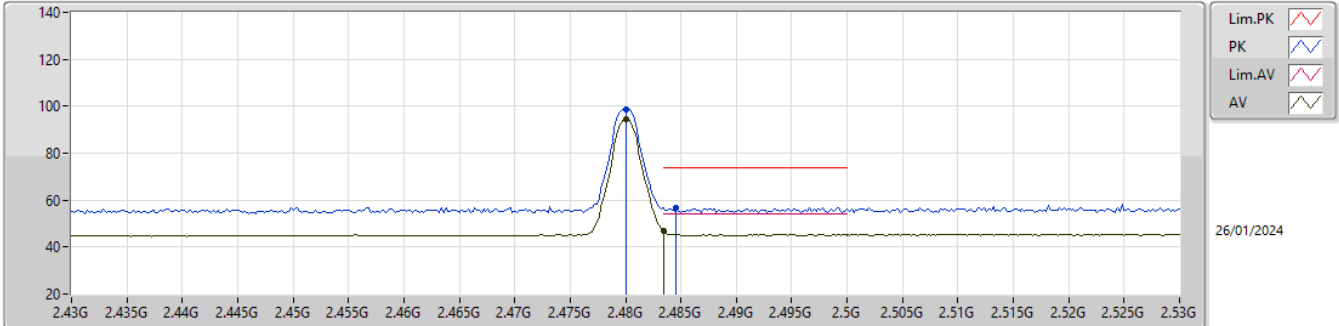


EUT\_Z\_1TX  
Setting 8  
05-C-G-4

| 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   | 2.4798G      | 105.29            | Inf               | -Inf           | 72.58         | 3           | Vertical  | 123            | 1.00          | -       | 27.90      | 4.81       | -          |  |  |  |  |
| AV   | 2.48G        | 101.07            | Inf               | -Inf           | 68.36         | 3           | Vertical  | 123            | 1.00          | -       | 27.90      | 4.81       | -          |  |  |  |  |
| PK   | 2.4835G      | 58.66             | 74.00             | -15.34         | 25.95         | 3           | Vertical  | 123            | 1.00          | -       | 27.90      | 4.81       | -          |  |  |  |  |
| AV   | 2.4835G      | 50.78             | 54.00             | -3.22          | 18.07         | 3           | Vertical  | 123            | 1.00          | -       | 27.90      | 4.81       | -          |  |  |  |  |

## 2.4-2.4835GHz\_BT-EDR(3Mbps)

### 2480MHz\_TX

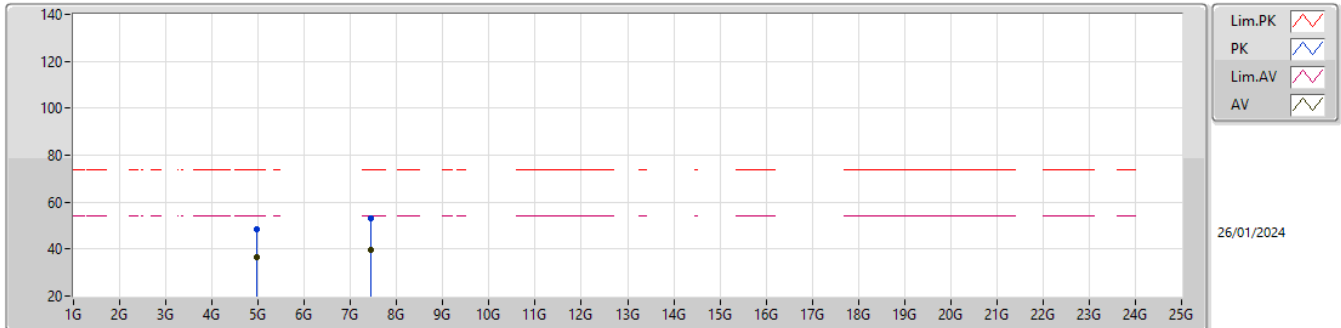


EUT\_Z\_1TX  
Setting 8  
05-C-G-4

| 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   | 2.48G        | 98.78             | Inf               | -Inf           | 66.07         | 3           | Horizontal | 251            | 2.61          | -       | 27.90      | 4.81       | -          |  |  |  |  |
| AV   | 2.48G        | 94.55             | Inf               | -Inf           | 61.84         | 3           | Horizontal | 251            | 2.61          | -       | 27.90      | 4.81       | -          |  |  |  |  |
| PK   | 2.4846G      | 56.77             | 74.00             | -17.23         | 24.05         | 3           | Horizontal | 251            | 2.61          | -       | 27.90      | 4.82       | -          |  |  |  |  |
| AV   | 2.4835G      | 46.78             | 54.00             | -7.22          | 14.07         | 3           | Horizontal | 251            | 2.61          | -       | 27.90      | 4.81       | -          |  |  |  |  |

## 2.4-2.4835GHz\_BT-EDR(3Mbps)

### 2480MHz\_TX

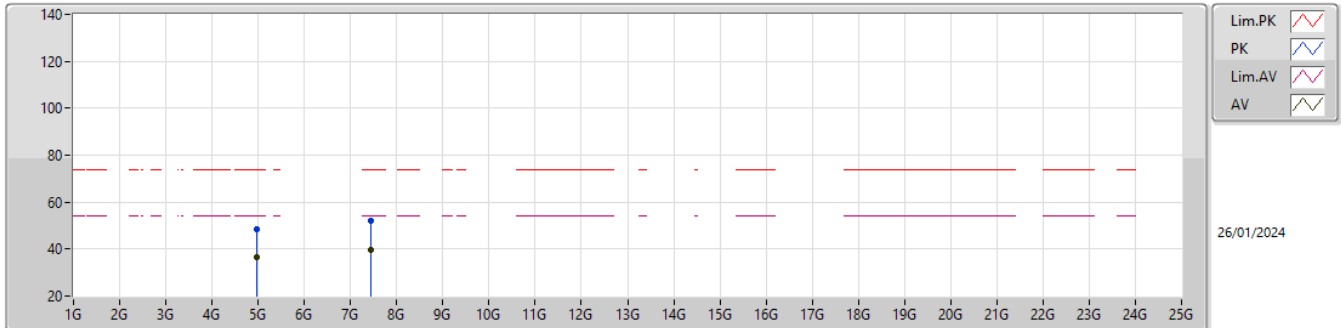


EUT\_Z\_1TX  
Setting 8  
05-C-G-4

| 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   | 4.95996G     | 48.35             | 74.00             | -25.65         | 43.76         | 3           | Vertical  | 55             | 2.20          | -       | 32.92      | 7.24       | 35.57      |  |  |  |
| AV   | 4.96024G     | 36.54             | 54.00             | -17.46         | 31.95         | 3           | Vertical  | 55             | 2.20          | -       | 32.92      | 7.24       | 35.57      |  |  |  |
| PK   | 7.43384G     | 53.21             | 74.00             | -20.79         | 42.53         | 3           | Vertical  | 304            | 1.46          | -       | 36.53      | 8.70       | 34.55      |  |  |  |
| AV   | 7.4458G      | 39.69             | 54.00             | -14.31         | 28.99         | 3           | Vertical  | 304            | 1.46          | -       | 36.51      | 8.72       | 34.53      |  |  |  |

## 2.4-2.4835GHz\_BT-EDR(3Mbps)

### 2480MHz\_TX



EUT\_Z\_1TX  
Setting 8  
05-C-G-4

| 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   | 4.95956G     | 48.50             | 74.00             | -25.50         | 43.91         | 3           | Horizontal | 341            | 2.92          | -       | 32.92      | 7.24       | 35.57      |  |  |  |  |
| AV   | 4.95988G     | 36.60             | 54.00             | -17.40         | 32.01         | 3           | Horizontal | 341            | 2.92          | -       | 32.92      | 7.24       | 35.57      |  |  |  |  |
| PK   | 7.43028G     | 52.16             | 74.00             | -21.84         | 41.48         | 3           | Horizontal | 167            | 2.49          | -       | 36.54      | 8.70       | 34.56      |  |  |  |  |
| AV   | 7.44504G     | 39.42             | 54.00             | -14.58         | 28.72         | 3           | Horizontal | 167            | 2.49          | -       | 36.51      | 8.72       | 34.53      |  |  |  |  |