

# FCC Radio Test Report

FCC ID : OSDAVENTHO300  
Equipment : OVER-EAR WIRELESS HEADPHONES  
Brand Name : beyerdynamic  
Model Name : AVENTHO 300  
Applicant : Beyerdynamic  
56 Central Avenue, Farmingdale, New York  
11735 United States  
Manufacturer : beyerdynamic GmbH & Co. KG  
Theresienstraße 8, 74072 Heilbronn, Germany  
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 03, 2024, and testing was started from Aug. 02, 2024 and completed on Aug. 16, 2024. We, SPORTON INTERNATIONAL INC. Hsinhua 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Jackson Tsai

**SPORTON INTERNATIONAL INC. Hsinhua Laboratory**

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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## History of this test report

[illegible]

## 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 Bandedge | 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               | -      |

**Declaration of Conformity:**

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

**Comments and explanations:**

None

**Reviewed by: Ben Tseng**

**Report Producer: Debby Hung**

# 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. | Brand   | Model Name      | Antenna Type        | Connector | Gain (dBi) |
|------|---------|-----------------|---------------------|-----------|------------|
| 1    | Toongin | S306300001000-A | Couple Chip Antenna | N/A       | -1.11      |

Note 1: The EUT has one antenna.

**For BT function:**

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 1 could transmit/receive.

**1.1.3 EUT Information**

| Operational Condition               |                                                                               |                                                         |                                         |
|-------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------|
| <b>EUT Power Type</b>               |                                                                               | From Battery                                            |                                         |
| <b>EUT Function</b>                 |                                                                               | <input checked="" type="checkbox"/> Point-to-multipoint | <input type="checkbox"/> Point-to-point |
| Type of EUT                         |                                                                               |                                                         |                                         |
| <input checked="" type="checkbox"/> | Stand-alone                                                                   |                                                         |                                         |
| <input type="checkbox"/>            | Combined (EUT where the radio part is fully integrated within another device) |                                                         |                                         |
|                                     | Combined Equipment - Brand Name / Model No.:                                  |                                                         | ...                                     |
| <input type="checkbox"/>            | Plug-in radio (EUT intended for a variety of host systems)                    |                                                         |                                         |
|                                     | Host System - Brand Name / Model No.:                                         |                                                         | ...                                     |
| <input type="checkbox"/>            | Other:                                                                        |                                                         |                                         |

**1.1.4 Mode Test Duty Cycle**

| Mode          | DC    | DCF (dB) | T (s)  | VBW (Hz)_1/T |
|---------------|-------|----------|--------|--------------|
| BT-BR(1Mbps)  | 0.771 | 1.13     | 2.891m | 1k           |
| BT-EDR(2Mbps) | 0.771 | 1.13     | 2.89m  | 1k           |
| BT-EDR(3Mbps) | 0.771 | 1.13     | 2.892m | 1k           |

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

## 1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

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

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 414788 D01 v01r01

## 1.3 Testing Location Information

| Test Lab. : Sporton International Inc. Hsinhua Laboratory      |                                                                                                |               |                      |                         |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------|----------------------|-------------------------|
| <input checked="" type="checkbox"/> Hsinhua<br>(TAF: 3785)     | ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)                 |               |                      |                         |
|                                                                | TEL: 886-3-327-3456                                                                            |               | FAX: 886-3-327-0973  |                         |
| Test site Designation No. TW3785 with FCC.                     |                                                                                                |               |                      |                         |
| Test Condition                                                 | Test Site No.                                                                                  | Test Engineer | Test Environment     | Test Date               |
| AC Conduction                                                  | CO04-HY                                                                                        | Wayne Chiu    | 21.7~22.4°C / 55~58% | 08/Aug/2024             |
| RF Conducted                                                   | TH07-HY                                                                                        | Yuna Lin      | 23.3~23.7°C / 52~57% | 02/Aug/2024~03/Aug/2024 |
| <input checked="" type="checkbox"/> Wenhua 3rd.<br>(TAF: 3785) | ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.) |               |                      |                         |
|                                                                | TEL: 886-3-327-0868                                                                            |               |                      |                         |
| Test site Designation No. TW0008 with FCC.                     |                                                                                                |               |                      |                         |
| Test Condition                                                 | Test Site No.                                                                                  | Test Engineer | Test Environment     | Test Date               |
| Radiated<br>(Below 1GHz)                                       | 03CH24-HY                                                                                      | Daniel Lin    | 22.7~24.6°C / 52~57% | 07/Aug/2024             |
| Radiated<br>(Above 1GHz)                                       | 03CH25-HY                                                                                      | Daniel Lin    | 22.5~24.1°C / 51~55% | 07/Aug/2024~16/Aug/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                   |
|---------------------------------------------|-------------|--------------------------|
| AC Power-line Conducted Emissions           | 4.53 dB     | Confidence levels of 95% |
| Bandwidth                                   | 3 MHz       | Confidence levels of 95% |
| Maximum Conducted Output Power              | 2 dB        | Confidence levels of 95% |
| Emissions in Non-restricted Frequency Bands | 0.14 dB     | Confidence levels of 95% |
| Emissions in Restricted Frequency Bands     | 4.8 dB      | Confidence levels of 95% |
| Temperature                                 | 0.41 °C     | Confidence levels of 95% |
| Humidity                                    | 3.4 %       | Confidence levels of 95% |

## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

|                       |                  |
|-----------------------|------------------|
| Test Software Version | BlueTest3 3.3.18 |
|-----------------------|------------------|

| Mode          | Power Setting |
|---------------|---------------|
| BT-BR(1Mbps)  | -             |
| 2402MHz       | 6             |
| 2440MHz       | 6             |
| 2480MHz       | 6             |
| BT-EDR(2Mbps) | -             |
| 2402MHz       | 6             |
| 2440MHz       | 6             |
| 2480MHz       | 6             |
| BT-EDR(3Mbps) | -             |
| 2402MHz       | 6             |
| 2440MHz       | 6             |
| 2480MHz       | 6             |

## 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>                               | CTX                                                                                     |
| 1                                                   | Adapter Mode                                                                            |
| 2                                                   | USB Mode                                                                                |

| 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<br><input checked="" type="checkbox"/> Non-adaptive frequency hopping systems (Non-AFH)<br><input checked="" type="checkbox"/> adaptive frequency hopping systems (AFH)       |
| Non-AFH Mode configuration was found to be the worst case and measured during the test. |                                                                                                                                                                                                                        |

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                                                                                                     |                                                                                      |                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | Emissions in Restricted Frequency Bands                                                                                                                                                                                                             |                                                                                      |                                                                                       |
| <b>Test Condition</b>                               | Radiated measurement<br>If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |                                                                                      |                                                                                       |
| <b>Operating Mode &lt; 1GHz</b>                     | CTX                                                                                                                                                                                                                                                 |                                                                                      |                                                                                       |
| 1                                                   | Adapter Mode                                                                                                                                                                                                                                        |                                                                                      |                                                                                       |
| 2                                                   | USB Mode                                                                                                                                                                                                                                            |                                                                                      |                                                                                       |
| <b>Operating Mode &gt; 1GHz</b>                     | CTX                                                                                                                                                                                                                                                 |                                                                                      |                                                                                       |
| <b>Orthogonal Planes of EUT</b>                     | <b>X Plane</b>                                                                                                                                                                                                                                      | <b>Y Plane</b>                                                                       | <b>Z Plane</b>                                                                        |
|                                                     |                                                                                                                                                                  |  |  |
| <b>Worst Planes of EUT</b>                          |                                                                                                                                                                                                                                                     |                                                                                      | V                                                                                     |

## 2.3 Accessories

| Accessories                   |              |                                                 |            |                                  |
|-------------------------------|--------------|-------------------------------------------------|------------|----------------------------------|
| <b>Battery</b>                | Brand Name   | SYNERGY                                         | Model Name | AHB723938PCT-04                  |
|                               | Power Rating | 3,7 Vdc, 1110 mAh                               | Type       | Rechargeable Li-ion Battery Pack |
| <b>USB-C charging cable</b>   | Brand Name   | beyerdynamic                                    | Model Name | 4021XW01978ZAU                   |
|                               | Signal Line  | 0.8 meter, D-shielded cable, w/o ferrite core   |            |                                  |
| <b>3.5mm TRS audio cable</b>  | Brand Name   | beyerdynamic                                    | Model Name | 4021XW01977ZAG                   |
|                               | Signal Line  | 1.2 meter, Non-shielded cable, w/o ferrite core |            |                                  |
| <b>USB-C to USB-A adapter</b> | Brand Name   | beyerdynamic                                    | Model Name | 2031JP00066ZA                    |

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

## 2.4 Support Equipment

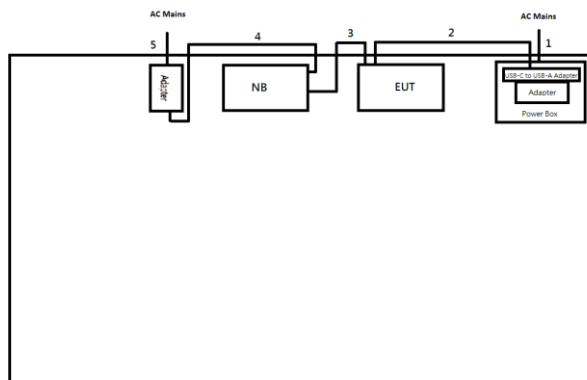
| Support Equipment – AC Conduction |                |            |            |        |        |
|-----------------------------------|----------------|------------|------------|--------|--------|
| No.                               | Equipment      | Brand Name | Model Name | FCC ID | Remark |
| 1                                 | Notebook       | HP         | HSTNN-142C | -      | -      |
| 2                                 | Adapter for NB | HP         | HSTNN-CA40 | -      | -      |
| 3                                 | Adapter        | Apple      | A2305      | -      | -      |
| 4                                 | AC Power Cable | Power sync | TPCMRN0018 | -      | -      |

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

| Support Equipment – Radiated |                |            |            |        |        |
|------------------------------|----------------|------------|------------|--------|--------|
| No.                          | Equipment      | Brand Name | Model Name | FCC ID | Remark |
| 1                            | Notebook       | HP         | HSTNN-142C | -      | -      |
| 2                            | Adapter for NB | HP         | HSTNN-CA40 | -      | -      |
| 3                            | Adapter        | Apple      | A2305      | -      | -      |
| 4                            | AC Power Cable | Power sync | TPCMRN0018 | -      | -      |

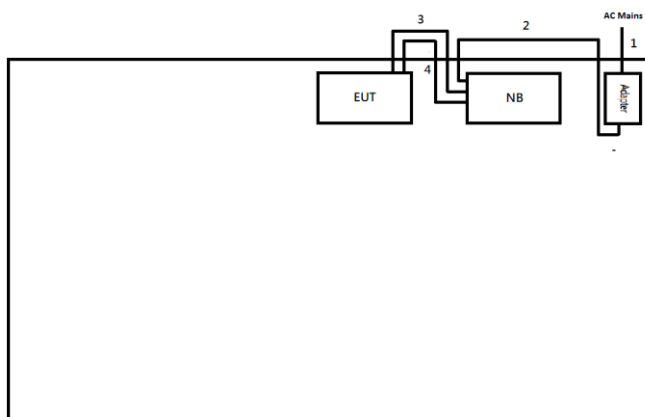
## 2.5 Test Setup Diagram

**Test Setup Diagram – AC Line Conducted Emission Test (Adapter Mode)**

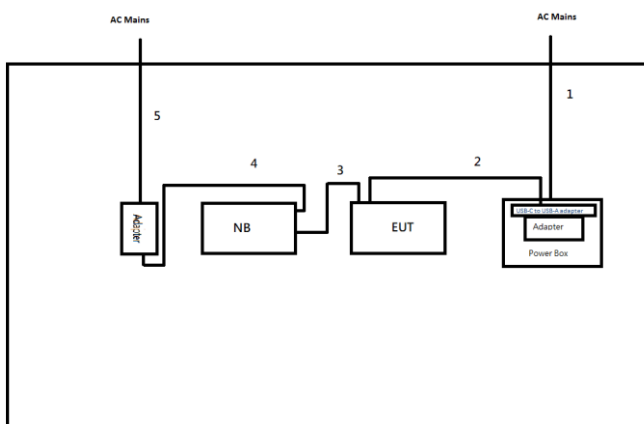


| Item | Connection           | Shielded | Length(m) | Remark |
|------|----------------------|----------|-----------|--------|
| 1    | AC Power cable       | No       | 1.0       | -      |
| 2    | USB-C charging cable | Yes      | 0.8       | -      |
| 3    | Audio cable          | No       | 1.2       | -      |
| 4    | DC Power cable       | No       | 1.8       | -      |
| 5    | AC Power cable       | No       | 1.8       | -      |

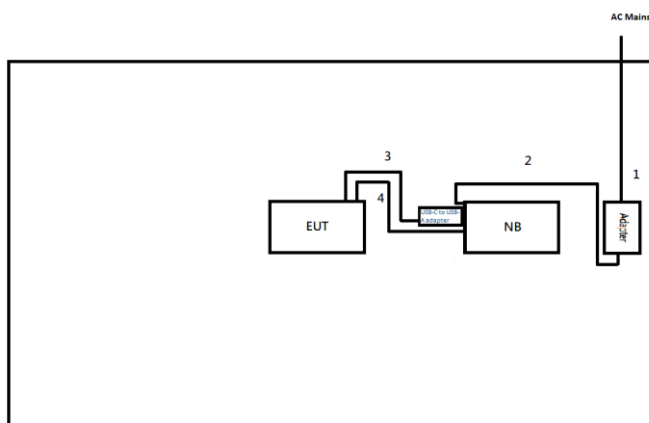
**Test Setup Diagram – AC Line Conducted Emission Test (USB Mode)**



| Item | Connection           | Shielded | Length(m) | Remark |
|------|----------------------|----------|-----------|--------|
| 1    | AC Power cable       | No       | 1.8       | -      |
| 2    | DC Power cable       | No       | 1.8       | -      |
| 3    | USB-C charging cable | Yes      | 0.8       | -      |
| 4    | Audio cable          | No       | 1.2       | -      |

**Test Setup Diagram - Radiated Test (Adapter Mode)**


| Item | Connection           | Shielded | Length(m) | Remark |
|------|----------------------|----------|-----------|--------|
| 1    | AC Power cable       | No       | 1.8       | -      |
| 2    | USB-C charging cable | Yes      | 0.8       | -      |
| 3    | Audio cable          | No       | 1.2       | -      |
| 4    | DC Power cable       | No       | 1.8       | -      |
| 5    | AC Power cable       | No       | 1.8       | -      |

**Test Setup Diagram - Radiated Test (USB Mode)**


| Item | Connection           | Shielded | Length(m) | Remark |
|------|----------------------|----------|-----------|--------|
| 1    | AC Power cable       | No       | 1.8       | -      |
| 2    | DC Power cable       | No       | 1.8       | -      |
| 3    | USB-C charging cable | Yes      | 0.8       | -      |
| 4    | Audio cable          | No       | 1.2       | -      |

### 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

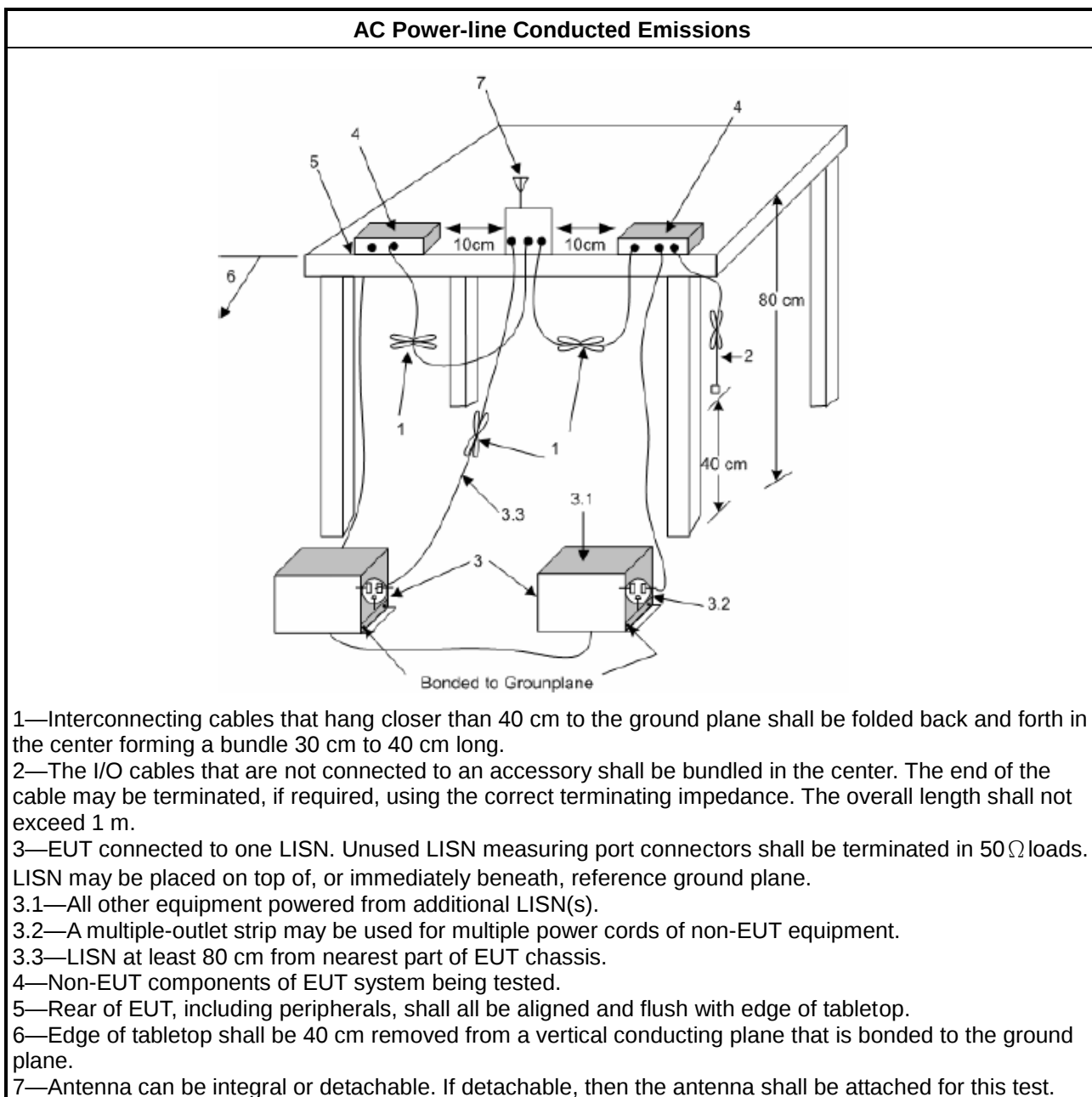
| Test Method                                                                    |
|--------------------------------------------------------------------------------|
| ▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions. |

##### 3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

### 3.1.5 Test Setup



### 3.1.6 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 |                                                                      |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| ▪                                                                                   | 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). |
| N: Number of Hopping Frequencies; ChS: Hopping Channel Separation                   |                                                                      |

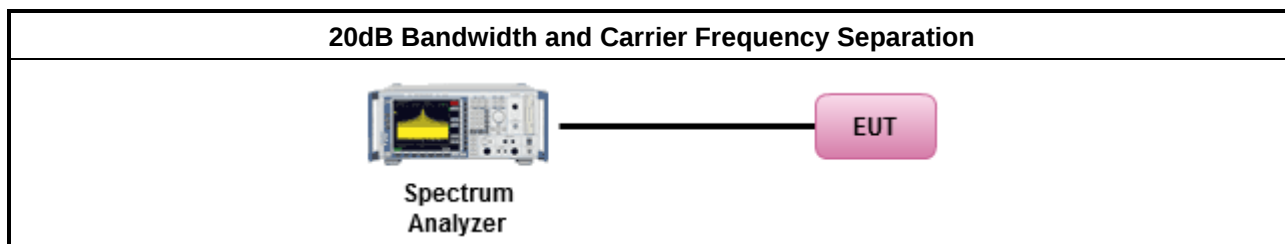
### 3.2.2 Measuring Instruments

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 6.9.2 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                                    |                                                                                                           |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>2400-2483.5 MHz Band:</li> </ul> |                                                                                                           |
|                                                                         | <ul style="list-style-type: none"> <li><math>N \geq 75</math>; Power 30dBm; EIRP 36dBm</li> </ul>         |
|                                                                         | <ul style="list-style-type: none"> <li><math>75 &gt; N \geq 15</math>; Power 21dBm; EIRP 27dBm</li> </ul> |
| N: Number of Hopping Frequencies                                        |                                                                                                           |

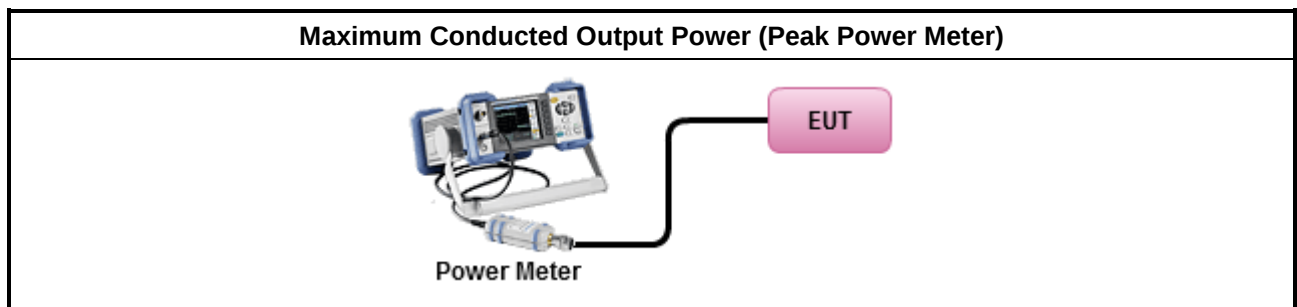
#### 3.3.2 Measuring Instruments

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

#### 3.3.3 Test Procedures

| Test Method                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 7.8.5 for output power measurement.</li> </ul> |

#### 3.3.4 Test Setup



#### 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                                     |                                                                                                                                               |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>2400-2483.5 MHz Band:</li> </ul> |                                                                                                                                               |
|                                                                         | <ul style="list-style-type: none"> <li><math>N \geq 75</math> and <math>ChS \geq MAX</math> (20 dB bandwidth, 25 kHz).</li> </ul>             |
|                                                                         | <ul style="list-style-type: none"> <li><math>75 &gt; N \geq 15</math> and <math>ChS \geq MAX</math> (20 dB bandwidth 2/3, 25 kHz).</li> </ul> |
| 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

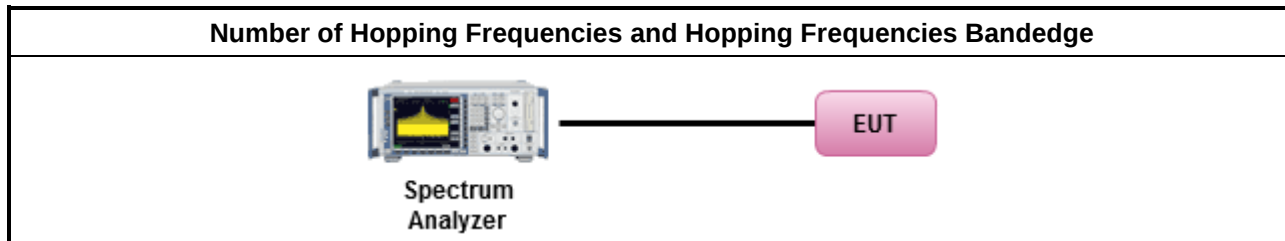
#### 3.4.3 Measuring Instruments

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

#### 3.4.4 Test Procedures

| Test Method                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement.</li> </ul> |
| <ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 7.8.6 for hopping frequencies Bandedge measurement.</li> </ul>  |

#### 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

| Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems |                                                    |
|--------------------------------------------------------------------|----------------------------------------------------|
| ▪ 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 |
| N: Number of Hopping Frequencies                                   |                                                    |

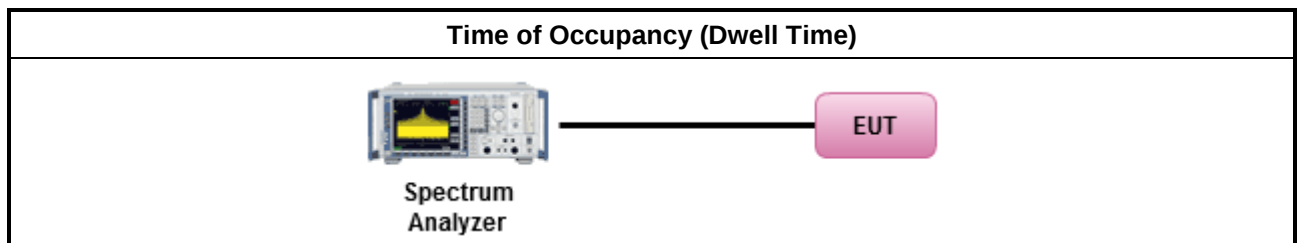
#### 3.5.2 Measuring Instruments

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 (dB) |
| 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. |            |

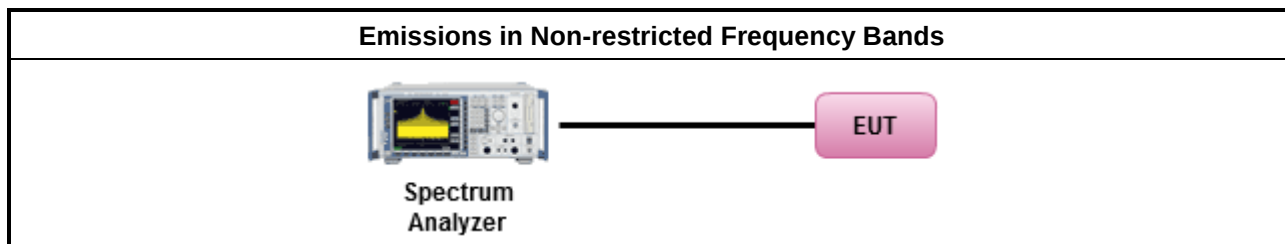
#### 3.6.2 Measuring Instruments

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

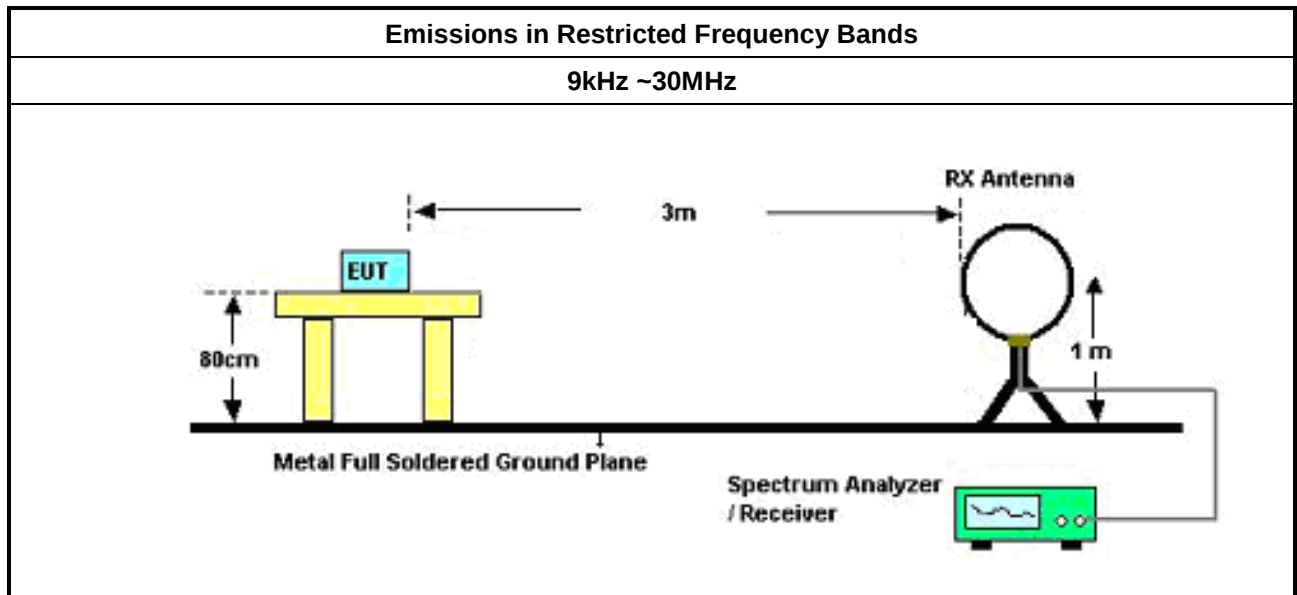
| Test Method |                                                                                                                                                                                                                                                                           |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | <ul style="list-style-type: none"> <li>The average emission levels shall be measured in [hopping duty factor].</li> </ul>                                                                                                                                                 |
|             | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.</li> </ul>                                               |
|             | <ul style="list-style-type: none"> <li>For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>                                                                                                                                 |
|             | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.</li> <li>Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.</li> <li>Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.</li> </ul> |
|             | KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.                                                                                                                                                                                                   |
|             | <ul style="list-style-type: none"> <li>Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.</li> </ul>                     |
|             | <ul style="list-style-type: none"> <li>Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.</li> </ul>                                                                                      |

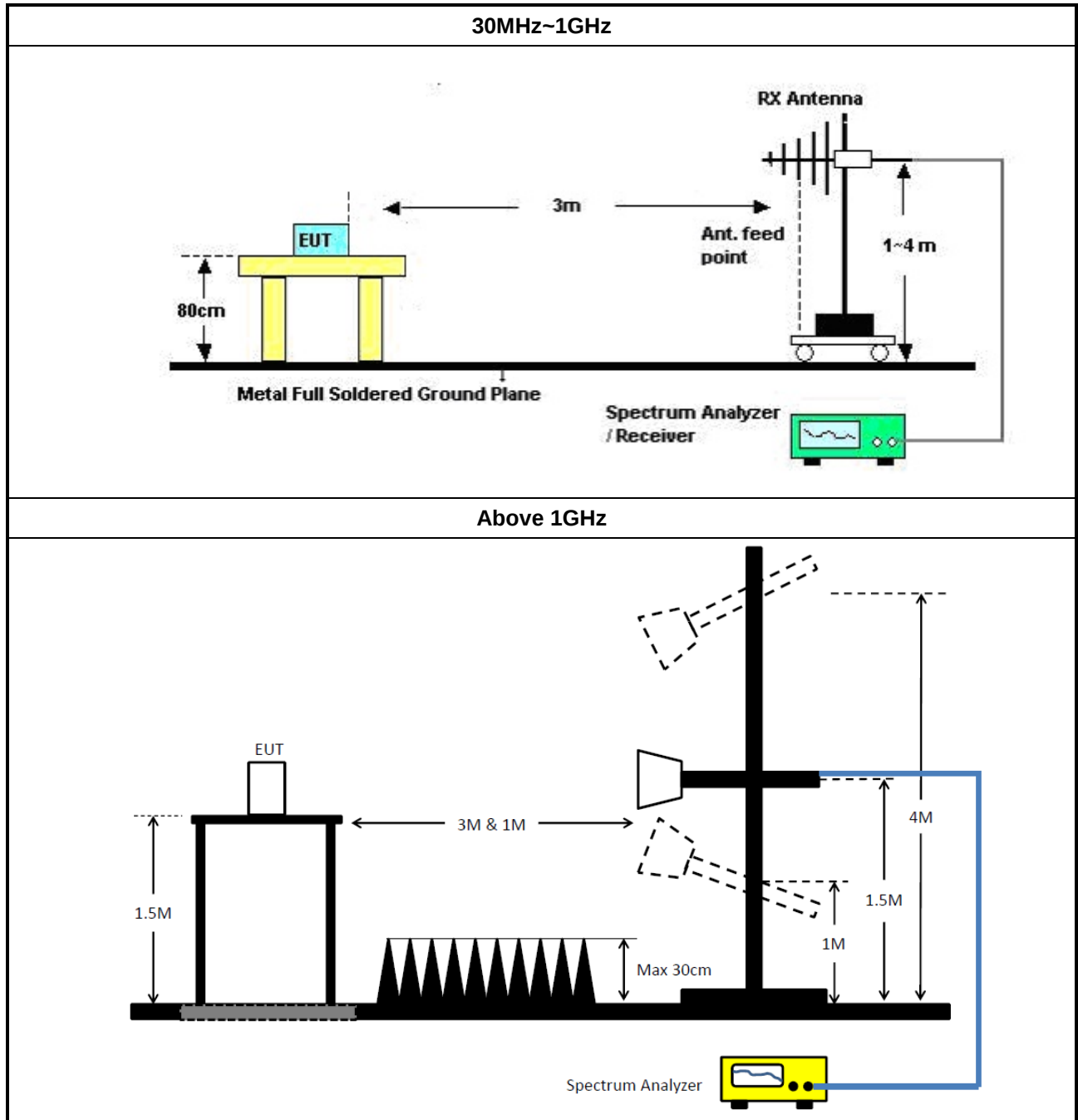
### 3.7.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

### 3.7.5 Test Setup





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

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

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

Refer as Appendix G



## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

| Instrument                        | Manufacturer /Brand | Model No.   | Serial No.    | Spec.         | Calibration Date | Calibration Due Date |
|-----------------------------------|---------------------|-------------|---------------|---------------|------------------|----------------------|
| EMI Test Receiver                 | ROHDE & SCHWARZ     | ESR3        | 102051        | 9kHz ~ 3.6GHz | 17/May/2024      | 16/May/2025          |
| Two-Line V-Network                | ROHDE & SCHWARZ     | ENV 216     | 101274.00000  | 9kHz ~ 30MHz  | 18/Jun/2024      | 17/Jun/2025          |
| RF Cable 5m                       | TITAN               | TITAN       | CO04-cable-01 | 9 kHz~200MHz  | 27/Feb/2024      | 26/Feb/2025          |
| Impuls Begrenzer<br>Pulse Limiter | SCHWARZBECK         | VTSD 9561-F | 9561-F041     | 9kHz ~ 30MHz  | 18/Oct/2023      | 17/Oct/2024          |
| Software                          | Sporton             | SENSE-EMI   | V5.11.3       | -             | NCR              | NCR                  |

NCR: No Calibration Required

### Instrument for Conducted Test

| Instrument               | Manufacturer /Brand | Model No. | Serial No. | Spec.        | Calibration Date | Calibration Due Date |
|--------------------------|---------------------|-----------|------------|--------------|------------------|----------------------|
| Signal Analyzer          | R&S                 | FSV3044   | 101439     | 10Hz~44GHz   | 30/Nov/2023      | 29/Nov/2024          |
| SMB100A Signal Generator | R&S                 | SMB100A   | 181147     | 100kHz~40GHz | 20/Oct/2023      | 19/Oct/2024          |
| Power Meter              | Anritsu             | ML2495A   | 1517010    | 300MHz~40GHz | 15/Dec/2023      | 14/Dec/2024          |
| Pulse Sensor             | Anritsu             | MA2411B   | 1339407    | 300MHz~40GHz | 15/Dec/2023      | 14/Dec/2024          |
| SENSE-15247_FS           | Sporton             | V5.11.18  | N/A        | N/A          | N/A              | N/A                  |

### Instrument for Radiated Test (Below 1GHz) (03CH24-HY)

| Instrument                     | Manufacturer /Brand | Model No.                  | Serial No. | Spec.         | Calibration Date | Calibration Due Date |
|--------------------------------|---------------------|----------------------------|------------|---------------|------------------|----------------------|
| 3m Semi Anechoic Chamber       | TDK                 | SAC-3M                     | 03CH24-HY  | 30MHz~1GHz 3m | 17/Aug/2023      | 16/Aug/2024          |
| EMI Test Receiver              | ROHDE & SCHWARZ     | ESR                        | 102318     | 9kHz~3.6GHz   | 27/Dec/2023      | 26/Dec/2024          |
| Loop Antenna                   | TESEQ               | HLA 6120                   | 31244      | 9kHz~30MHz    | 19/Mar/2024      | 18/Mar/2025          |
| Bilog Antenna & 6dB Attenuator | TESEQ / Woken       | CBL 6112D / 00800N1D01N-06 | 35376 / 02 | 30MHz~1GHz    | 14/Apr/2024      | 13/Apr/2025          |
| RF Cable                       | HUBER+SUHNER        | SUOFLEX 104                | CB002      | 9kHz~1GHz     | 19/Jun/2024      | 18/Jun/2025          |
| Pre-Amplifier                  | Aglient             | 8447D                      | 2944A06292 | 30MHz~1GHz    | 18/Apr/2024      | 17/Apr/2025          |
| SENSE-15247-FS                 | Sporton             | V5.11.18                   | NA         | NA            | NA               | NA                   |

**Instrument for Radiated Test (Above 1GHz) (03CH25-HY)**

| Instrument                       | Manufacturer /Brand | Model No.   | Serial No.   | Spec.         | Calibration Date | Calibration Due Date |
|----------------------------------|---------------------|-------------|--------------|---------------|------------------|----------------------|
| 3m Semi Anechoic Chamber         | TDK                 | SAC-3M      | 03CH25-HY    | 1GHz~18GHz 3m | 09/Aug/2023      | 08/Aug/2024          |
| Signal Analyzer                  | ROHDE&SCHWARZ       | FSV3044     | 101410       | 10Hz~44GHz    | 17/Nov/2023      | 16/Nov/2024          |
| Double Ridged Guide Horn Antenna | SCHWARZBECK         | BBHA 9120 D | 02876        | 1GHz~18GHz    | 11/Jul/2024      | 10/Jul/2025          |
| Broadband Horn Antenna           | SCHWARZBECK         | BBHA 9170   | BBHA 9170154 | 18GHz~40GHz   | 04/Jun/2024      | 03/Jun/2025          |
| RF Cable                         | HUBER+SUHNER        | SUOFLEX 104 | CB007        | 1GHz~40GHz    | 23/Apr/2024      | 22/Apr/2025          |
| Preamplifier                     | SGH                 | PRAMP 118-H | 20230515-3   | 1GHz ~18GHz   | 24/May/2024      | 23/May/2025          |
| Microwave Premplifier            | EMC INSTRUMENTS     | EM18G40G    | 060604       | 18GHz ~ 40GHz | 19/Apr/2024      | 18/Apr/2025          |
| SENSE-15247-FS                   | Sporton             | V5.11.18    | NA           | NA            | NA               | NA                   |



## Conducted Emissions at Powerline

## Appendix A

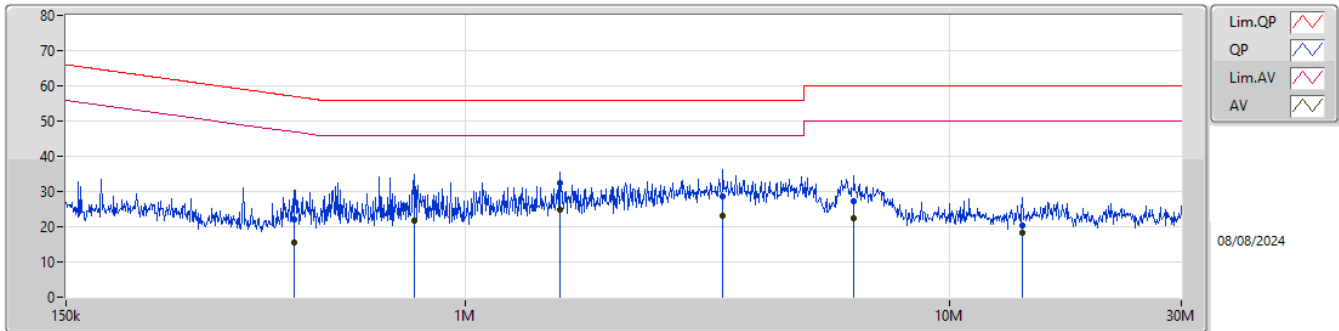
### Summary

| Mode   | Result | Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Condition |
|--------|--------|------|--------------|-----------------|-----------------|----------------|-----------|
| Mode 1 | Pass   | AV   | 2.348M       | 31.32           | 46.00           | -14.68         | Neutral   |
| Mode 2 | Pass   | QP   | 156.734k     | 48.50           | 65.64           | -17.14         | Neutral   |

**Result**

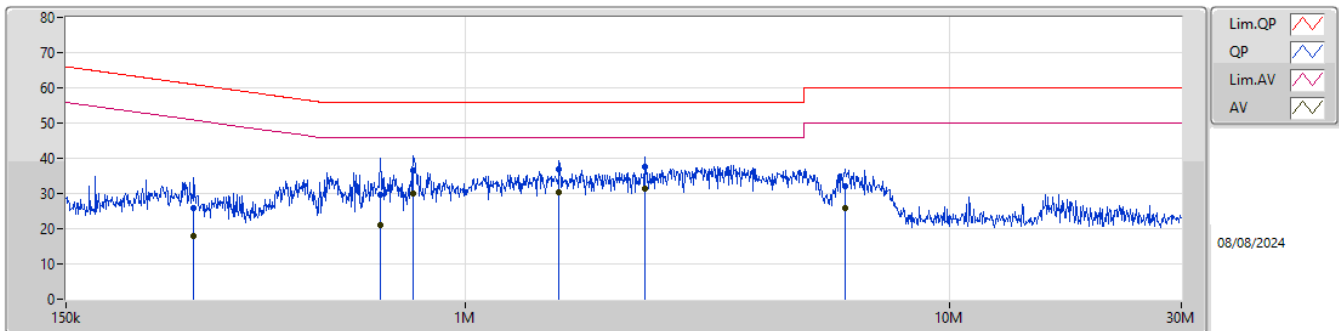
| Mode   | Result | Type | Freq (Hz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Condition | Comments |
|--------|--------|------|-----------|--------------|--------------|-------------|-----------|----------|
| Mode 1 | Pass   | QP   | 442.514k  | 21.99        | 57.01        | -35.02      | Line      | -        |
| Mode 1 | Pass   | AV   | 442.514k  | 15.42        | 47.01        | -31.59      | Line      | -        |
| Mode 1 | Pass   | QP   | 786.289k  | 30.06        | 56.00        | -25.94      | Line      | -        |
| Mode 1 | Pass   | AV   | 786.289k  | 21.59        | 46.00        | -24.41      | Line      | -        |
| Mode 1 | Pass   | QP   | 1.569M    | 32.30        | 56.00        | -23.70      | Line      | -        |
| Mode 1 | Pass   | AV   | 1.569M    | 24.84        | 46.00        | -21.16      | Line      | -        |
| Mode 1 | Pass   | QP   | 3.403M    | 28.64        | 56.00        | -27.36      | Line      | -        |
| Mode 1 | Pass   | AV   | 3.403M    | 23.06        | 46.00        | -22.94      | Line      | -        |
| Mode 1 | Pass   | QP   | 6.343M    | 27.21        | 60.00        | -32.79      | Line      | -        |
| Mode 1 | Pass   | AV   | 6.343M    | 22.58        | 50.00        | -27.42      | Line      | -        |
| Mode 1 | Pass   | QP   | 14.095M   | 20.22        | 60.00        | -39.78      | Line      | -        |
| Mode 1 | Pass   | AV   | 14.095M   | 18.22        | 50.00        | -31.78      | Line      | -        |
| Mode 1 | Pass   | QP   | 275.179k  | 25.88        | 60.95        | -35.07      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 275.179k  | 17.79        | 50.95        | -33.16      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 667.575k  | 29.49        | 56.00        | -26.51      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 667.575k  | 20.95        | 46.00        | -25.05      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 780.036k  | 36.58        | 56.00        | -19.42      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 780.036k  | 29.84        | 46.00        | -16.16      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 1.562M    | 37.03        | 56.00        | -18.97      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 1.562M    | 30.26        | 46.00        | -15.74      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 2.348M    | 37.64        | 56.00        | -18.36      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 2.348M    | 31.32        | 46.00        | -14.68      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 6.071M    | 32.16        | 60.00        | -27.84      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 6.071M    | 25.96        | 50.00        | -24.04      | Neutral   | -        |
| Mode 2 | Pass   | QP   | 154.868k  | 47.21        | 65.73        | -18.52      | Line      | -        |
| Mode 2 | Pass   | AV   | 154.868k  | 30.15        | 55.73        | -25.58      | Line      | -        |
| Mode 2 | Pass   | QP   | 207.263k  | 40.92        | 63.30        | -22.38      | Line      | -        |
| Mode 2 | Pass   | AV   | 207.263k  | 25.65        | 53.30        | -27.65      | Line      | -        |
| Mode 2 | Pass   | QP   | 238.343k  | 37.41        | 62.16        | -24.75      | Line      | -        |
| Mode 2 | Pass   | AV   | 238.343k  | 26.14        | 52.16        | -26.02      | Line      | -        |
| Mode 2 | Pass   | QP   | 487.008k  | 32.24        | 56.21        | -23.97      | Line      | -        |
| Mode 2 | Pass   | AV   | 487.008k  | 26.69        | 46.21        | -19.52      | Line      | -        |
| Mode 2 | Pass   | QP   | 3.218M    | 26.99        | 56.00        | -29.01      | Line      | -        |
| Mode 2 | Pass   | AV   | 3.218M    | 21.14        | 46.00        | -24.86      | Line      | -        |
| Mode 2 | Pass   | QP   | 7.353M    | 26.58        | 60.00        | -33.42      | Line      | -        |
| Mode 2 | Pass   | AV   | 7.353M    | 22.31        | 50.00        | -27.69      | Line      | -        |
| Mode 2 | Pass   | QP   | 156.734k  | 48.50        | 65.64        | -17.14      | Neutral   | -        |
| Mode 2 | Pass   | AV   | 156.734k  | 31.48        | 55.64        | -24.16      | Neutral   | -        |
| Mode 2 | Pass   | QP   | 201.551k  | 41.17        | 63.55        | -22.38      | Neutral   | -        |
| Mode 2 | Pass   | AV   | 201.551k  | 26.03        | 53.55        | -27.52      | Neutral   | -        |
| Mode 2 | Pass   | QP   | 248.05k   | 35.38        | 61.81        | -26.43      | Neutral   | -        |
| Mode 2 | Pass   | AV   | 248.05k   | 22.90        | 51.81        | -28.91      | Neutral   | -        |
| Mode 2 | Pass   | QP   | 498.814k  | 28.80        | 56.02        | -27.22      | Neutral   | -        |
| Mode 2 | Pass   | AV   | 498.814k  | 21.94        | 46.02        | -24.08      | Neutral   | -        |
| Mode 2 | Pass   | QP   | 3.527M    | 23.85        | 56.00        | -32.15      | Neutral   | -        |
| Mode 2 | Pass   | AV   | 3.527M    | 18.75        | 46.00        | -27.25      | Neutral   | -        |
| Mode 2 | Pass   | QP   | 6.981M    | 28.04        | 60.00        | -31.96      | Neutral   | -        |
| Mode 2 | Pass   | AV   | 6.981M    | 24.04        | 50.00        | -25.96      | Neutral   | -        |

### Conducted Emissions at Powerline\_Mode 1



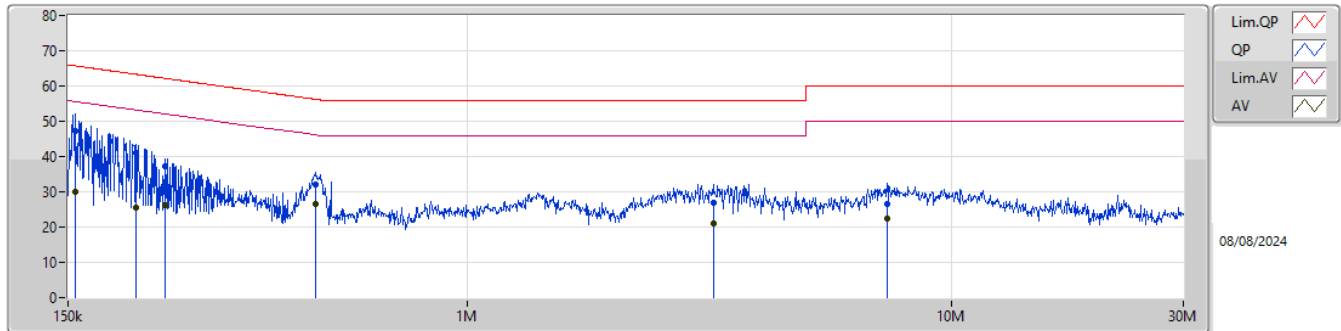
| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|--------------|------------|------------|--|--|--|--|--|--|
| QP   | 442.514k     | 21.99           | 57.01           | -35.02         | 19.53          | Line      | -       | 2.46          | 9.65         | 0.12       | 9.76       |  |  |  |  |  |  |
| AV   | 442.514k     | 15.42           | 47.01           | -31.59         | 19.53          | Line      | -       | -4.11         | 9.65         | 0.12       | 9.76       |  |  |  |  |  |  |
| QP   | 786.289k     | 30.06           | 56.00           | -25.94         | 19.55          | Line      | -       | 10.51         | 9.66         | 0.10       | 9.79       |  |  |  |  |  |  |
| AV   | 786.289k     | 21.59           | 46.00           | -24.41         | 19.55          | Line      | -       | 2.04          | 9.66         | 0.10       | 9.79       |  |  |  |  |  |  |
| QP   | 1.569M       | 32.30           | 56.00           | -23.70         | 19.57          | Line      | -       | 12.73         | 9.67         | 0.10       | 9.80       |  |  |  |  |  |  |
| AV   | 1.569M       | 24.84           | 46.00           | -21.16         | 19.57          | Line      | -       | 5.27          | 9.67         | 0.10       | 9.80       |  |  |  |  |  |  |
| QP   | 3.403M       | 28.64           | 56.00           | -27.36         | 19.56          | Line      | -       | 9.08          | 9.69         | 0.08       | 9.79       |  |  |  |  |  |  |
| AV   | 3.403M       | 23.06           | 46.00           | -22.94         | 19.56          | Line      | -       | 3.50          | 9.69         | 0.08       | 9.79       |  |  |  |  |  |  |
| QP   | 6.343M       | 27.21           | 60.00           | -32.79         | 19.55          | Line      | -       | 7.66          | 9.70         | 0.06       | 9.79       |  |  |  |  |  |  |
| AV   | 6.343M       | 22.58           | 50.00           | -27.42         | 19.55          | Line      | -       | 3.03          | 9.70         | 0.06       | 9.79       |  |  |  |  |  |  |
| QP   | 14.095M      | 20.22           | 60.00           | -39.78         | 19.60          | Line      | -       | 0.62          | 9.70         | 0.08       | 9.82       |  |  |  |  |  |  |
| AV   | 14.095M      | 18.22           | 50.00           | -31.78         | 19.60          | Line      | -       | -1.38         | 9.70         | 0.08       | 9.82       |  |  |  |  |  |  |

### Conducted Emissions at Powerline\_Mode 1



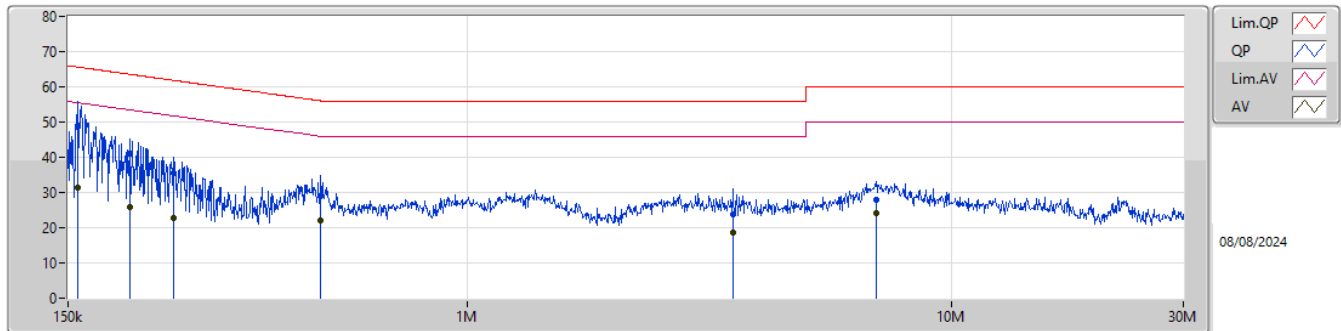
| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|--------------|------------|------------|--|--|--|--|--|--|
| QP   | 275.179k     | 25.88           | 60.95           | -35.07         | 19.42          | Neutral   | -       | 6.46          | 9.60         | 0.10       | 9.72       |  |  |  |  |  |  |
| AV   | 275.179k     | 17.79           | 50.95           | -33.16         | 19.42          | Neutral   | -       | -1.63         | 9.60         | 0.10       | 9.72       |  |  |  |  |  |  |
| QP   | 667.575k     | 29.49           | 56.00           | -26.51         | 19.49          | Neutral   | -       | 10.00         | 9.61         | 0.10       | 9.78       |  |  |  |  |  |  |
| AV   | 667.575k     | 20.95           | 46.00           | -25.05         | 19.49          | Neutral   | -       | 1.46          | 9.61         | 0.10       | 9.78       |  |  |  |  |  |  |
| QP   | 780.036k     | 36.58           | 56.00           | -19.42         | 19.50          | Neutral   | -       | 17.08         | 9.61         | 0.10       | 9.79       |  |  |  |  |  |  |
| AV   | 780.036k     | 29.84           | 46.00           | -16.16         | 19.50          | Neutral   | -       | 10.34         | 9.61         | 0.10       | 9.79       |  |  |  |  |  |  |
| QP   | 1.562M       | 37.03           | 56.00           | -18.97         | 19.51          | Neutral   | -       | 17.52         | 9.61         | 0.10       | 9.80       |  |  |  |  |  |  |
| AV   | 1.562M       | 30.26           | 46.00           | -15.74         | 19.51          | Neutral   | -       | 10.75         | 9.61         | 0.10       | 9.80       |  |  |  |  |  |  |
| QP   | 2.348M       | 37.64           | 56.00           | -18.36         | 19.51          | Neutral   | -       | 18.13         | 9.61         | 0.10       | 9.80       |  |  |  |  |  |  |
| AV   | 2.348M       | 31.32           | 46.00           | -14.68         | 19.51          | Neutral   | -       | 11.81         | 9.61         | 0.10       | 9.80       |  |  |  |  |  |  |
| QP   | 6.071M       | 32.16           | 60.00           | -27.84         | 19.49          | Neutral   | -       | 12.67         | 9.64         | 0.06       | 9.79       |  |  |  |  |  |  |
| AV   | 6.071M       | 25.96           | 50.00           | -24.04         | 19.49          | Neutral   | -       | 6.47          | 9.64         | 0.06       | 9.79       |  |  |  |  |  |  |

### Conducted Emissions at Powerline\_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   | 154.868k     | 47.21           | 65.73           | -18.52         | 19.48          | Line      | -       | 27.73         | 9.66         | 0.07       | 9.75       |  |  |  |  |  |  |
| AV   | 154.868k     | 30.15           | 55.73           | -25.58         | 19.48          | Line      | -       | 10.67         | 9.66         | 0.07       | 9.75       |  |  |  |  |  |  |
| QP   | 207.263k     | 40.92           | 63.30           | -22.38         | 19.42          | Line      | -       | 21.50         | 9.65         | 0.09       | 9.68       |  |  |  |  |  |  |
| AV   | 207.263k     | 25.65           | 53.30           | -27.65         | 19.42          | Line      | -       | 6.23          | 9.65         | 0.09       | 9.68       |  |  |  |  |  |  |
| QP   | 238.343k     | 37.41           | 62.16           | -24.75         | 19.45          | Line      | -       | 17.96         | 9.65         | 0.10       | 9.70       |  |  |  |  |  |  |
| AV   | 238.343k     | 26.14           | 52.16           | -26.02         | 19.45          | Line      | -       | 6.69          | 9.65         | 0.10       | 9.70       |  |  |  |  |  |  |
| QP   | 487.008k     | 32.24           | 56.21           | -23.97         | 19.53          | Line      | -       | 12.71         | 9.65         | 0.11       | 9.77       |  |  |  |  |  |  |
| AV   | 487.008k     | 26.69           | 46.21           | -19.52         | 19.53          | Line      | -       | 7.16          | 9.65         | 0.11       | 9.77       |  |  |  |  |  |  |
| QP   | 3.218M       | 26.99           | 56.00           | -29.01         | 19.55          | Line      | -       | 7.44          | 9.68         | 0.08       | 9.79       |  |  |  |  |  |  |
| AV   | 3.218M       | 21.14           | 46.00           | -24.86         | 19.55          | Line      | -       | 1.59          | 9.68         | 0.08       | 9.79       |  |  |  |  |  |  |
| QP   | 7.353M       | 26.58           | 60.00           | -33.42         | 19.55          | Line      | -       | 7.03          | 9.70         | 0.06       | 9.79       |  |  |  |  |  |  |
| AV   | 7.353M       | 22.31           | 50.00           | -27.69         | 19.55          | Line      | -       | 2.76          | 9.70         | 0.06       | 9.79       |  |  |  |  |  |  |

### Conducted Emissions at Powerline\_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   | 156.734k     | 48.50           | 65.64           | -17.14         | 19.42          | Neutral   | -       | 29.08         | 9.60         | 0.07       | 9.75       |  |  |  |  |  |  |
| AV   | 156.734k     | 31.48           | 55.64           | -24.16         | 19.42          | Neutral   | -       | 12.06         | 9.60         | 0.07       | 9.75       |  |  |  |  |  |  |
| QP   | 201.551k     | 41.17           | 63.55           | -22.38         | 19.37          | Neutral   | -       | 21.80         | 9.60         | 0.09       | 9.68       |  |  |  |  |  |  |
| AV   | 201.551k     | 26.03           | 53.55           | -27.52         | 19.37          | Neutral   | -       | 6.66          | 9.60         | 0.09       | 9.68       |  |  |  |  |  |  |
| QP   | 248.05k      | 35.38           | 61.81           | -26.43         | 19.40          | Neutral   | -       | 15.98         | 9.60         | 0.10       | 9.70       |  |  |  |  |  |  |
| AV   | 248.05k      | 22.90           | 51.81           | -28.91         | 19.40          | Neutral   | -       | 3.50          | 9.60         | 0.10       | 9.70       |  |  |  |  |  |  |
| QP   | 498.814k     | 28.80           | 56.02           | -27.22         | 19.48          | Neutral   | -       | 9.32          | 9.60         | 0.11       | 9.77       |  |  |  |  |  |  |
| AV   | 498.814k     | 21.94           | 46.02           | -24.08         | 19.48          | Neutral   | -       | 2.46          | 9.60         | 0.11       | 9.77       |  |  |  |  |  |  |
| QP   | 3.527M       | 23.85           | 56.00           | -32.15         | 19.49          | Neutral   | -       | 4.36          | 9.62         | 0.08       | 9.79       |  |  |  |  |  |  |
| AV   | 3.527M       | 18.75           | 46.00           | -27.25         | 19.49          | Neutral   | -       | -0.74         | 9.62         | 0.08       | 9.79       |  |  |  |  |  |  |
| QP   | 6.981M       | 28.04           | 60.00           | -31.96         | 19.49          | Neutral   | -       | 8.55          | 9.64         | 0.06       | 9.79       |  |  |  |  |  |  |
| AV   | 6.981M       | 24.04           | 50.00           | -25.96         | 19.49          | Neutral   | -       | 4.55          | 9.64         | 0.06       | 9.79       |  |  |  |  |  |  |

**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)  | 968k             | 885.268k        | 885KF1D  | 918.5k           | 866.103k        |
| BT-EDR(2Mbps) | 1.331M           | 1.196M          | 1M20G1D  | 1.32M            | 1.183M          |
| BT-EDR(3Mbps) | 1.359M           | 1.206M          | 1M21G1D  | 1.29M            | 1.188M          |

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           | 921.25k             | 866.103k           |
| 2440MHz       | Pass   | Inf           | 918.5k              | 875.945k           |
| 2480MHz       | Pass   | Inf           | 968k                | 885.268k           |
| BT-EDR(2Mbps) | -      | -             | -                   | -                  |
| 2402MHz       | Pass   | Inf           | 1.32M               | 1.196M             |
| 2440MHz       | Pass   | Inf           | 1.32M               | 1.183M             |
| 2480MHz       | Pass   | Inf           | 1.331M              | 1.195M             |
| BT-EDR(3Mbps) | -      | -             | -                   | -                  |
| 2402MHz       | Pass   | Inf           | 1.29M               | 1.189M             |
| 2440MHz       | Pass   | Inf           | 1.328M              | 1.188M             |
| 2480MHz       | Pass   | Inf           | 1.359M              | 1.206M             |

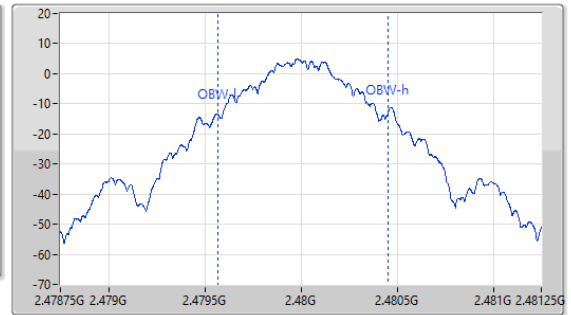
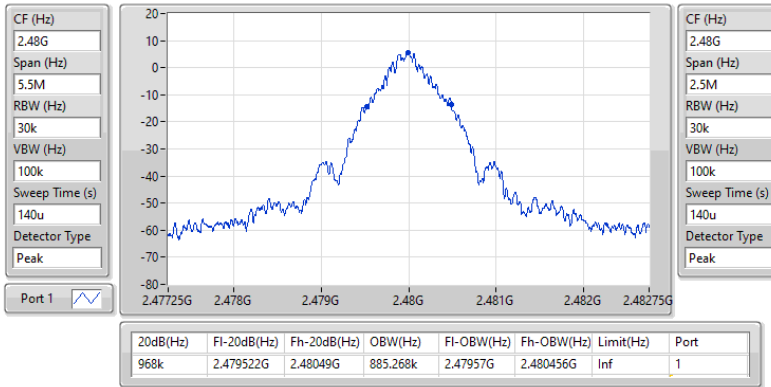
Port X-N dB = Port X 20dB down bandwidth;  
Port X-OBW = Port X 99% occupied bandwidth

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

EBW-FS

2480MHz

02/08/2024

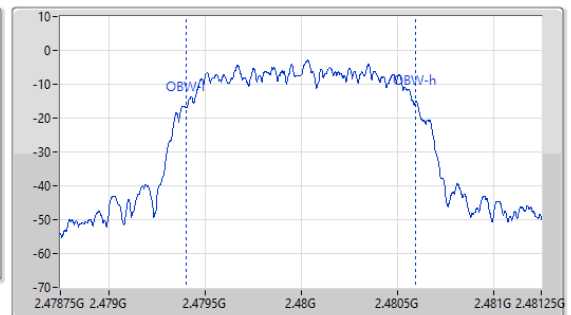
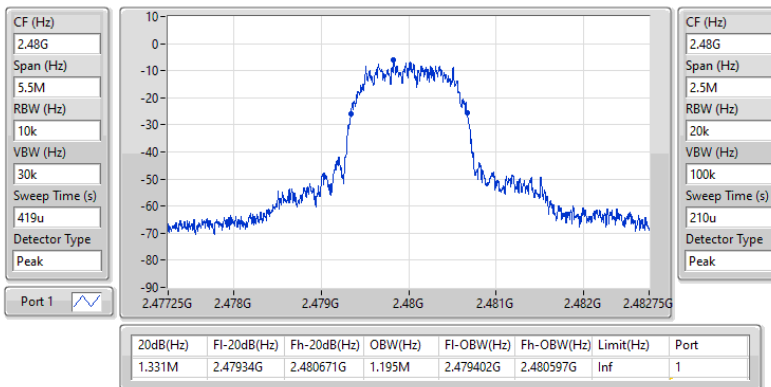


2.4-2.4835GHz\_BT-EDR(2Mbps)

EBW-FS

2480MHz

02/08/2024

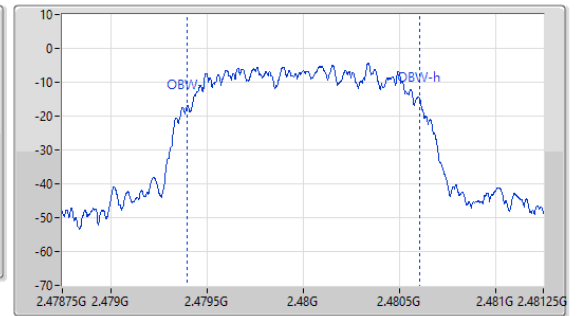
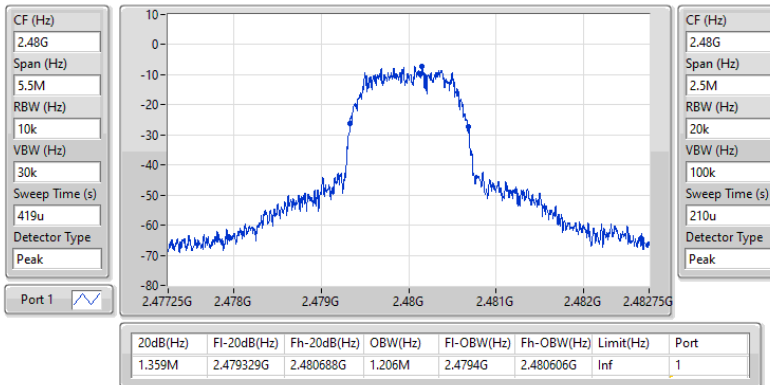


2.4-2.4835GHz\_BT-EDR(3Mbps)

EBW-FS

2480MHz

02/08/2024





**Summary**

| Mode          | Max-Space<br>(Hz) | Min-Space<br>(Hz) |
|---------------|-------------------|-------------------|
| 2.4-2.4835GHz | -                 | -                 |
| BT-BR(1Mbps)  | 1.002M            | 999k              |
| BT-EDR(2Mbps) | 1.002M            | 999k              |
| BT-EDR(3Mbps) | 1.002M            | 1.0005M           |

## Result

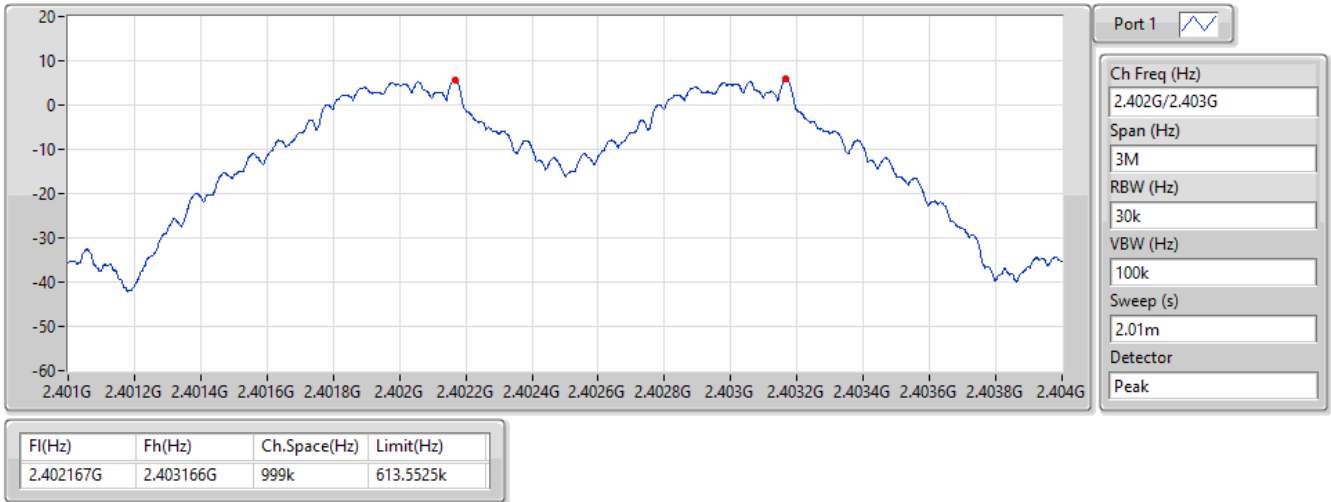
| Mode          | Result | Fl<br>(Hz) | Fh<br>(Hz) | Ch.Space<br>(Hz) | Limit<br>(Hz) |
|---------------|--------|------------|------------|------------------|---------------|
| BT-BR(1Mbps)  | -      | -          | -          | -                | -             |
| 2402MHz       | Pass   | 2.402167G  | 2.403166G  | 999k             | 613.5525k     |
| 2440MHz       | Pass   | 2.440166G  | 2.441168G  | 1.002M           | 611.721k      |
| 2480MHz       | Pass   | 2.479167G  | 2.480166G  | 999k             | 644.688k      |
| BT-EDR(2Mbps) | -      | -          | -          | -                | -             |
| 2402MHz       | Pass   | 2.402167G  | 2.403166G  | 999k             | 881.118k      |
| 2440MHz       | Pass   | 2.440167G  | 2.441166G  | 999k             | 879.12k       |
| 2480MHz       | Pass   | 2.479166G  | 2.480168G  | 1.002M           | 886.446k      |
| BT-EDR(3Mbps) | -      | -          | -          | -                | -             |
| 2402MHz       | Pass   | 2.402166G  | 2.403168G  | 1.002M           | 859.14k       |
| 2440MHz       | Pass   | 2.440167G  | 2.441168G  | 1.0005M          | 884.448k      |
| 2480MHz       | Pass   | 2.479166G  | 2.480168G  | 1.002M           | 905.094k      |

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

## Channel Separation-FS

2.402G/2.403GHz

02/08/2024

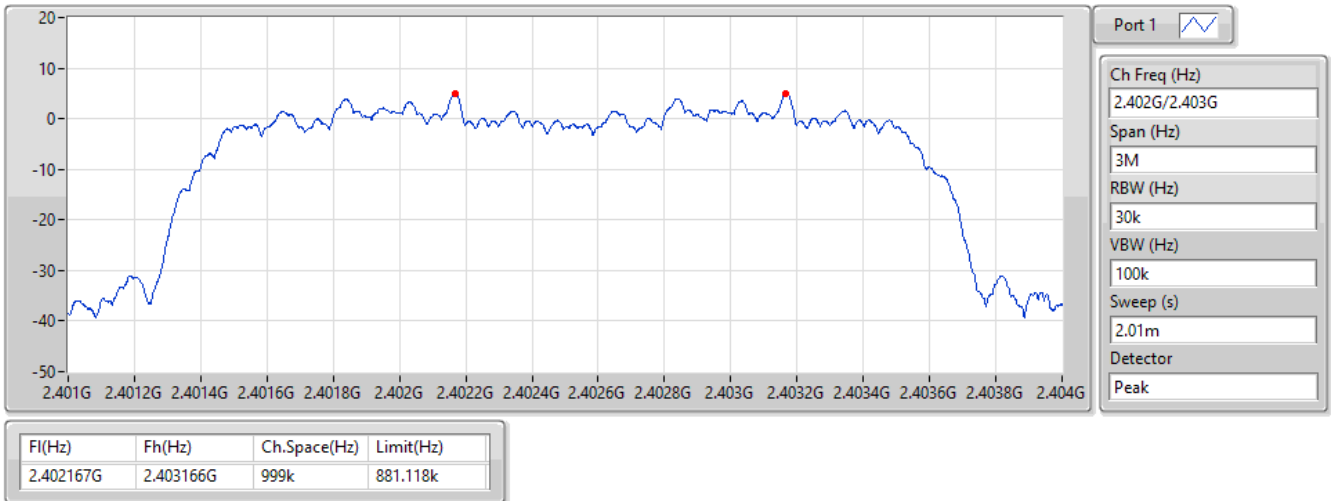


## 2.4-2.4835GHz\_BT-EDR(2Mbps)

## Channel Separation-FS

2.402G/2.403GHz

02/08/2024

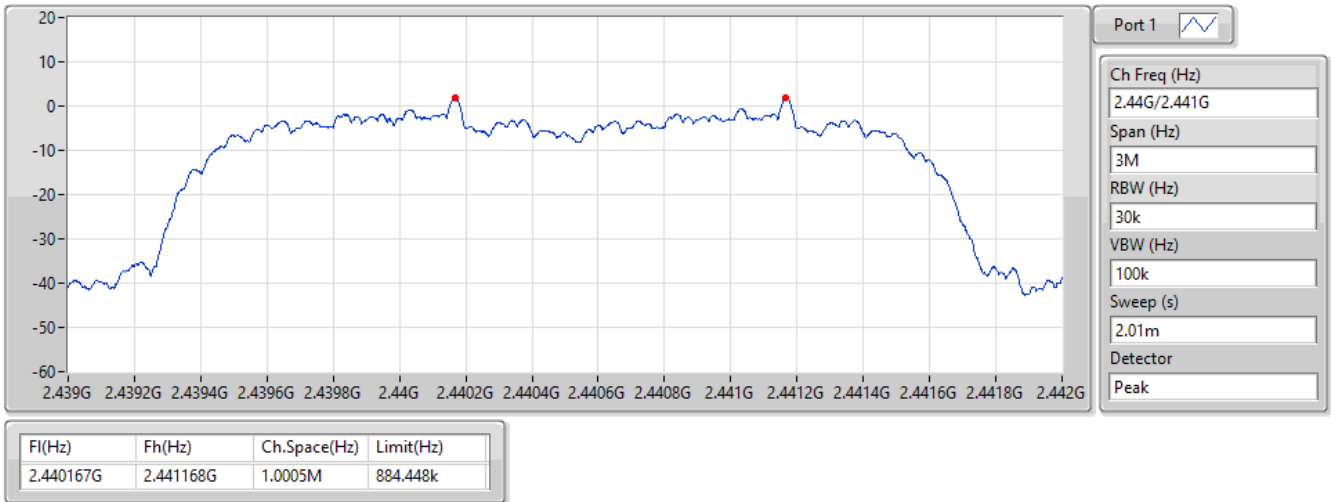


2.4-2.4835GHz\_BT-EDR(3Mbps)

Channel Separation-FS

2.44G/2.441GHz

02/08/2024





**Summary**

| Mode          | Total Power<br>(dBm) | Total Power<br>(W) |
|---------------|----------------------|--------------------|
| 2.4-2.4835GHz | -                    | -                  |
| BT-BR(1Mbps)  | 9.28                 | 0.00847            |
| BT-EDR(2Mbps) | 11.05                | 0.01274            |
| BT-EDR(3Mbps) | 11.22                | 0.01324            |

### Result

| Mode          | Result | DG<br>(dBi) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|---------------|--------|-------------|----------------------|----------------------|
| BT-BR(1Mbps)  | -      | -           | -                    | -                    |
| 2402MHz       | Pass   | -1.11       | 8.27                 | 21.00                |
| 2440MHz       | Pass   | -1.11       | 9.12                 | 21.00                |
| 2480MHz       | Pass   | -1.11       | 9.28                 | 21.00                |
| BT-EDR(2Mbps) | -      | -           | -                    | -                    |
| 2402MHz       | Pass   | -1.11       | 10.40                | 21.00                |
| 2440MHz       | Pass   | -1.11       | 10.80                | 21.00                |
| 2480MHz       | Pass   | -1.11       | 11.05                | 21.00                |
| BT-EDR(3Mbps) | -      | -           | -                    | -                    |
| 2402MHz       | Pass   | -1.11       | 10.84                | 21.00                |
| 2440MHz       | Pass   | -1.11       | 11.16                | 21.00                |
| 2480MHz       | Pass   | -1.11       | 11.22                | 21.00                |

DG = Directional Gain; Port X = Port X output power;  
Inf = There's no restriction for the limit.



**Summary**

| Mode          | Total Power<br>(dBm) | Total Power<br>(W) |
|---------------|----------------------|--------------------|
| 2.4-2.4835GHz | -                    | -                  |
| BT-BR(1Mbps)  | 9.11                 | 0.00815            |
| BT-EDR(2Mbps) | 7.84                 | 0.00608            |
| BT-EDR(3Mbps) | 8.04                 | 0.00637            |



**Result**

| Mode          | Result | DG<br>(dBi) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|---------------|--------|-------------|----------------------|----------------------|
| BT-BR(1Mbps)  | -      | -           | -                    | -                    |
| 2402MHz       | Pass   | -1.11       | 8.06                 | 21.00                |
| 2440MHz       | Pass   | -1.11       | 8.94                 | 21.00                |
| 2480MHz       | Pass   | -1.11       | 9.11                 | 21.00                |
| BT-EDR(2Mbps) | -      | -           | -                    | -                    |
| 2402MHz       | Pass   | -1.11       | 7.49                 | 21.00                |
| 2440MHz       | Pass   | -1.11       | 7.52                 | 21.00                |
| 2480MHz       | Pass   | -1.11       | 7.84                 | 21.00                |
| BT-EDR(3Mbps) | -      | -           | -                    | -                    |
| 2402MHz       | Pass   | -1.11       | 7.58                 | 21.00                |
| 2440MHz       | Pass   | -1.11       | 7.99                 | 21.00                |
| 2480MHz       | Pass   | -1.11       | 8.04                 | 21.00                |

DG = Directional Gain; Port X = Port X output power;  
Inf = There's no restriction for the limit.



**Summary**

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

**Result**

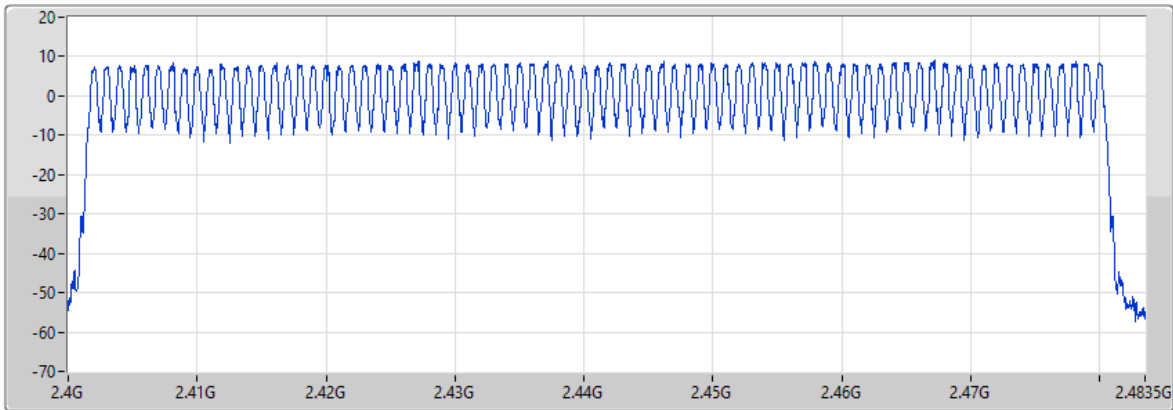
| Mode          | Result | Hopping No | Limit |
|---------------|--------|------------|-------|
| BT-BR(1Mbps)  | -      | -          | -     |
| 2440MHz       | Pass   | 79         | 15    |
| BT-EDR(2Mbps) | -      | -          | -     |
| 2440MHz       | Pass   | 79         | 15    |
| BT-EDR(3Mbps)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

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

Hopping-FS

2440MHz

03/08/2024



Port 1 

Hopping No  
79

Span (Hz)  
83.5M

RBW (Hz)  
100k

VBW (Hz)  
300kHz

Sweep (s)  
83.7us

Detector  
Peak

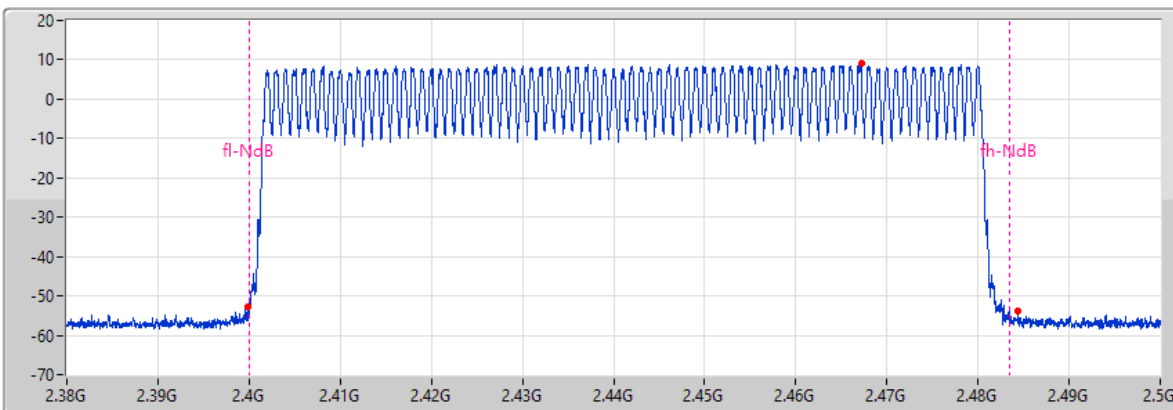
| Hopping No | Limit |
|------------|-------|
| 79         | 15    |

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

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

03/08/2024



Port 1 

Span (Hz)  
120M

RBW (Hz)  
100k

VBW (Hz)  
300k

Sweep (s)  
83.7u

Detector  
Peak

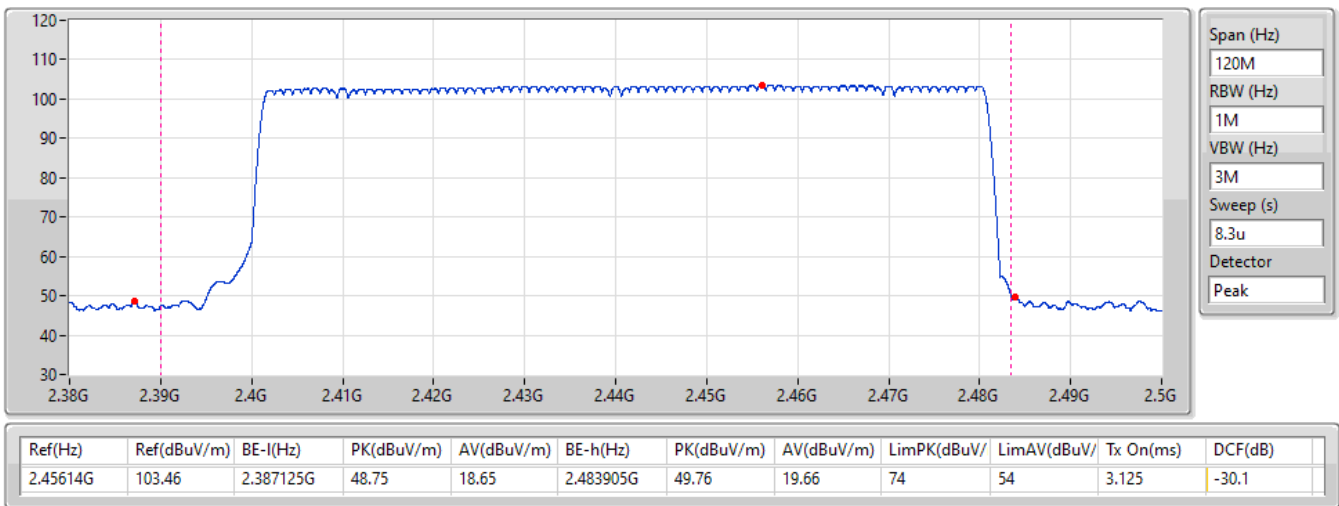
| Limit(dBm) | Ref(Hz)   | Ref(dBm) | BE-l(Hz) | BE-l(dBm) | BE-h(Hz)  | BE-h(dBm) |
|------------|-----------|----------|----------|-----------|-----------|-----------|
| -11.02     | 2.467165G | 8.98     | 2.39992G | -52.63    | 2.484355G | -54       |

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

2440MHz

#### Hopping Ch Bandedge (Restricted Band)

03/08/2024

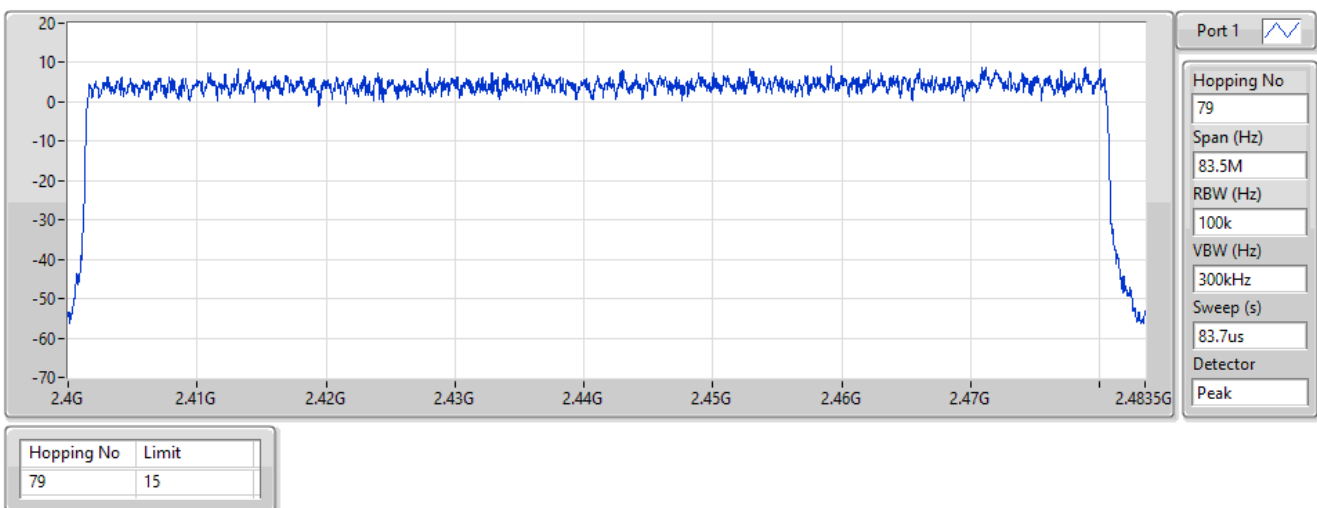


### 2.4-2.4835GHz\_BT-EDR(2Mbps)

2440MHz

#### Hopping-FS

02/08/2024

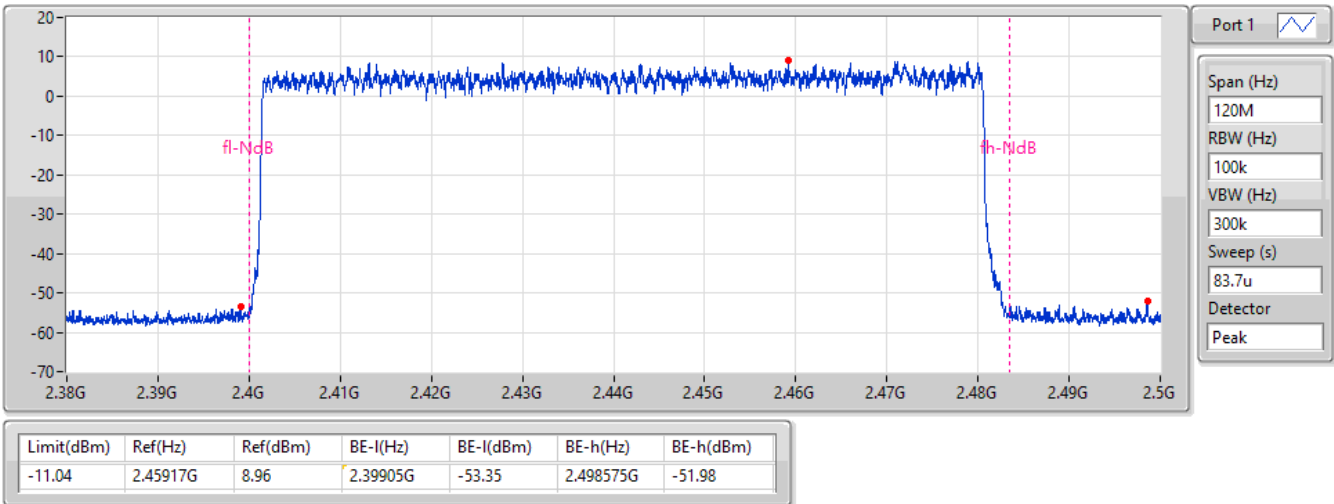


2.4-2.4835GHz\_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

02/08/2024

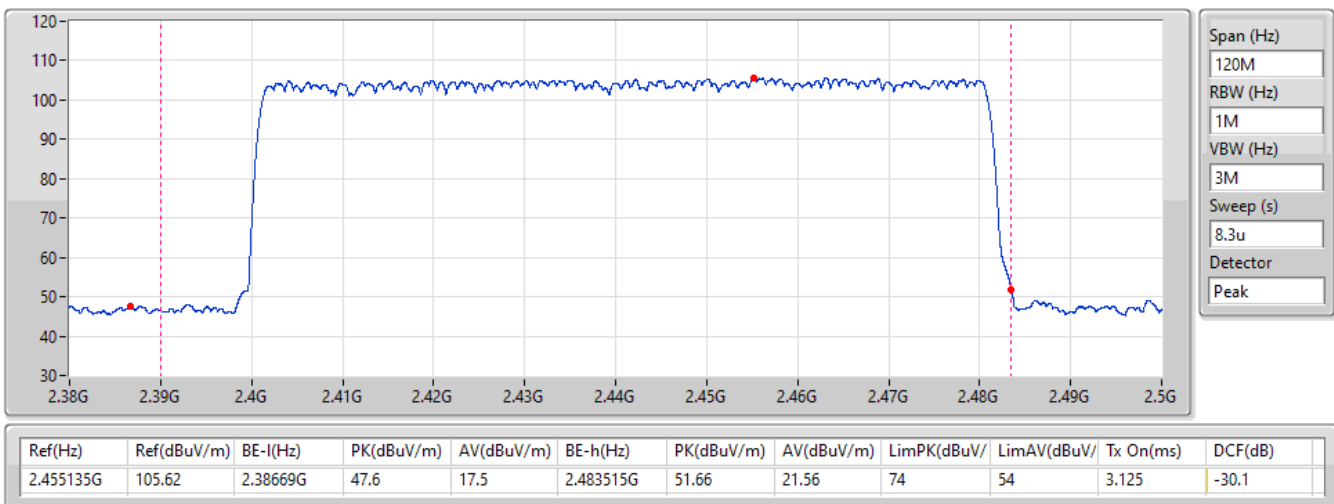


2.4-2.4835GHz\_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

02/08/2024

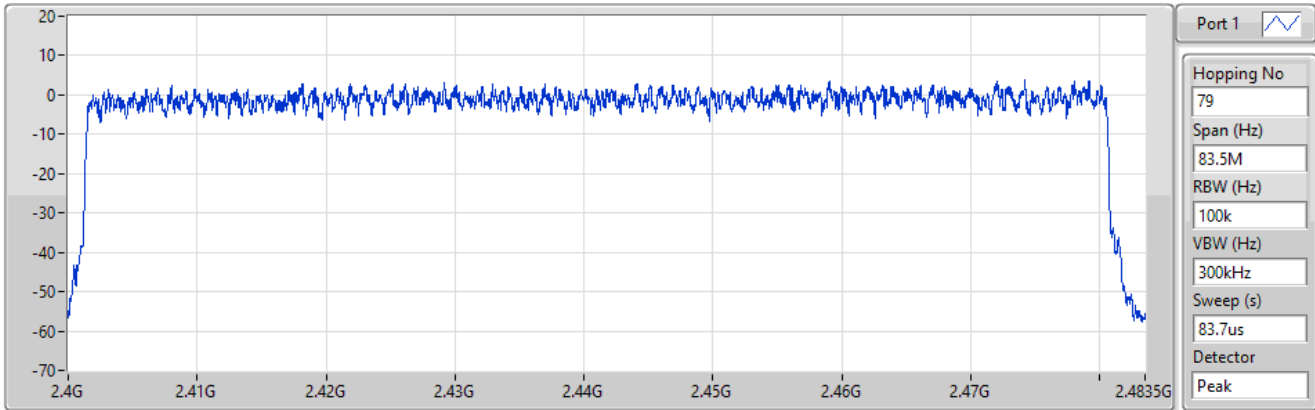


2.4-2.4835GHz\_BT-EDR(3Mbps)

Hopping-FS

2440MHz

02/08/2024



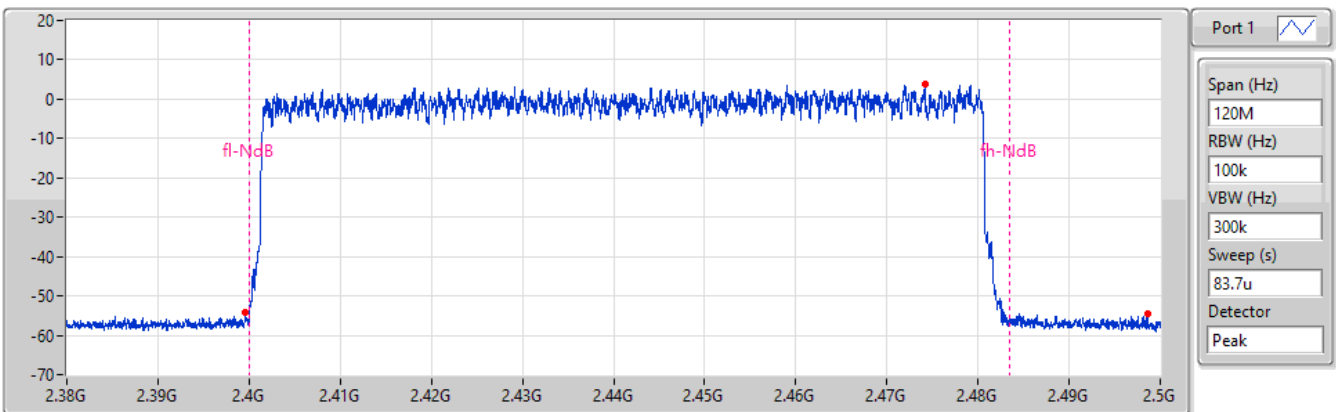
| Hopping No | Limit |
|------------|-------|
| 79         | 15    |

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

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

02/08/2024



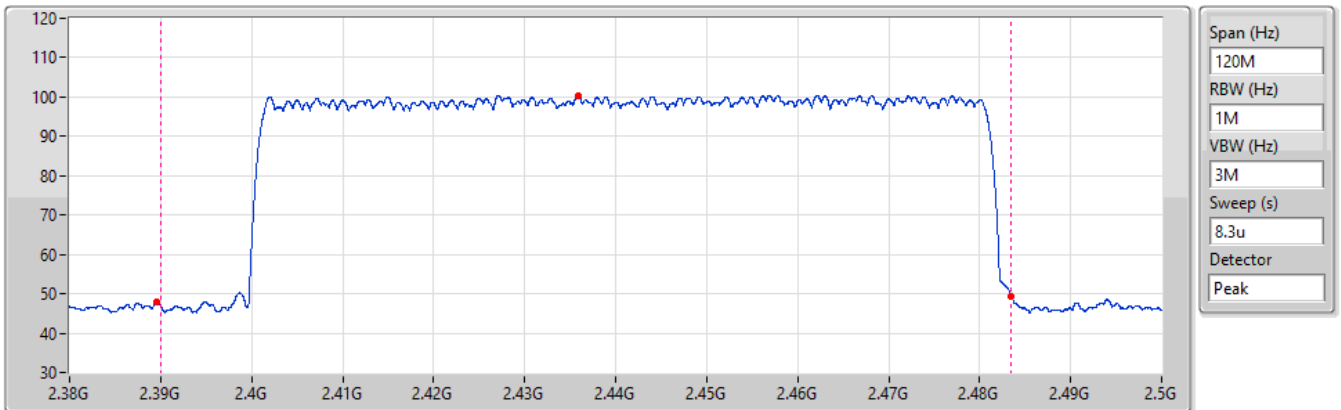
| Limit(dBm) | Ref(Hz)  | Ref(dBm) | BE-l(Hz)  | BE-l(dBm) | BE-h(Hz)  | BE-h(dBm) |
|------------|----------|----------|-----------|-----------|-----------|-----------|
| -16.05     | 2.47417G | 3.95     | 2.399605G | -54.26    | 2.498575G | -54.42    |

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

2440MHz

Hopping Ch Bandedge (Restricted Band)

02/08/2024



| 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) |
|----------|-------------|----------|------------|------------|-----------|------------|------------|-------------|-------------|-----------|---------|
| 2.43583G | 100.42      | 2.38963G | 47.94      | 17.84      | 2.483515G | 49.44      | 19.34      | 74          | 54          | 3.125     | -30.1   |



**Summary**

|               |                |
|---------------|----------------|
| 2.4-2.4835GHz | -              |
| BT-BR(1Mbps)  | 309.37985m_DH5 |
| BT-EDR(2Mbps) | 309.37985m_DH5 |
| BT-EDR(3Mbps) | 309.53975m_DH5 |

**Result**

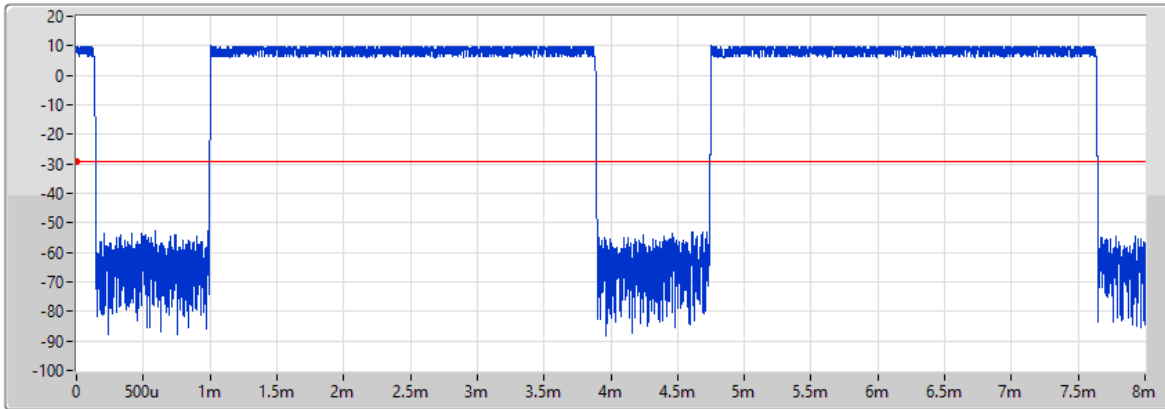
| Mode          | Result | Period (s) | Dwell (s)           | Limit (s) | Tx On (s) |
|---------------|--------|------------|---------------------|-----------|-----------|
| BT-BR(1Mbps)  | -      | -          | -                   | -         | -         |
| 2440MHz       | Pass   | 31.6       | 309.37985m_DH5      | 400m      | 2.90225m  |
| 2440MHz       | Pass   | 8          | 154.796525m_DH5-AFH | 400m      | 2.90425m  |
| BT-EDR(2Mbps) | -      | -          | -                   | -         | -         |
| 2440MHz       | Pass   | 31.6       | 309.37985m_DH5      | 400m      | 2.90225m  |
| 2440MHz       | Pass   | 8          | 154.663275m_DH5-AFH | 400m      | 2.90175m  |
| BT-EDR(3Mbps) | -      | -          | -                   | -         | -         |
| 2440MHz       | Pass   | 31.6       | 309.53975m_DH5      | 400m      | 2.90375m  |
| 2440MHz       | Pass   | 8          | 154.7299m_DH5-AFH   | 400m      | 2.903m    |

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

Dwell-FS

2440MHz

02/08/2024



Port 1

Ch Freq (Hz)

2.44G

RBW (Hz)

300k

VBW (Hz)

1M

Sweep Time (s)

8m

TX Time (s)

2.90225m

| Period(s) | Dwell(s)       | Limit(s) | Tx On(s) |
|-----------|----------------|----------|----------|
| 31.6      | 309.37985m_DH5 | 400m     | 2.90225m |

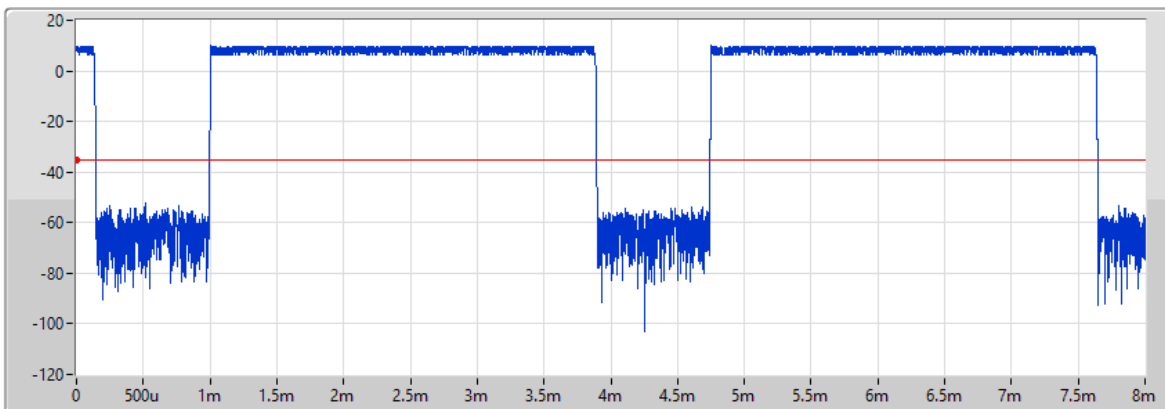
DH5

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

Dwell-FS

2440MHz

02/08/2024



Port 1

Ch Freq (Hz)

2.44G

RBW (Hz)

300k

VBW (Hz)

1M

Sweep Time (s)

8m

TX Time (s)

2.90425m

| Period(s) | Dwell(s)            | Limit(s) | Tx On(s) |
|-----------|---------------------|----------|----------|
| 8         | 154.796525m_DH5-AFH | 400m     | 2.90425m |

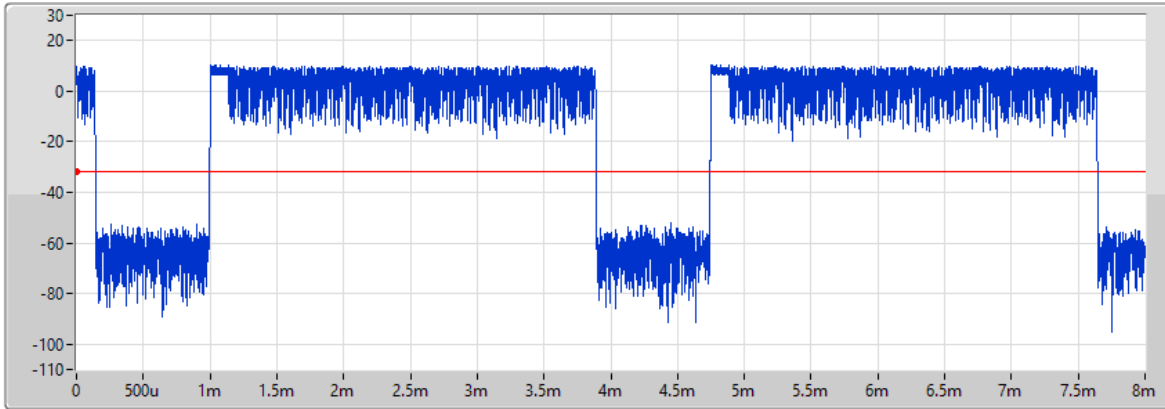
DH5-AFH

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

Dwell-FS

2440MHz

02/08/2024



Port 1 

Ch Freq (Hz)  
2.44G

RBW (Hz)  
300k

VBW (Hz)  
1M

Sweep Time (s)  
8m

TX Time (s)  
2.90225m

| Period(s) | Dwell(s)       | Limit(s) | Tx On(s) |
|-----------|----------------|----------|----------|
| 31.6      | 309.37985m_DH5 | 400m     | 2.90225m |

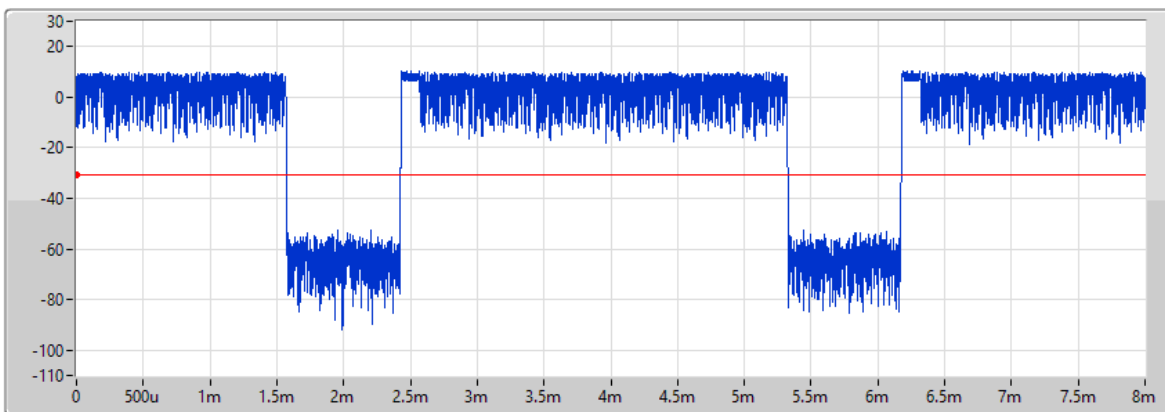
DH5

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

Dwell-FS

2440MHz

02/08/2024



Port 1 

Ch Freq (Hz)  
2.44G

RBW (Hz)  
300k

VBW (Hz)  
1M

Sweep Time (s)  
8m

TX Time (s)  
2.90175m

| Period(s) | Dwell(s)            | Limit(s) | Tx On(s) |
|-----------|---------------------|----------|----------|
| 8         | 154.663275m_DH5-AFH | 400m     | 2.90175m |

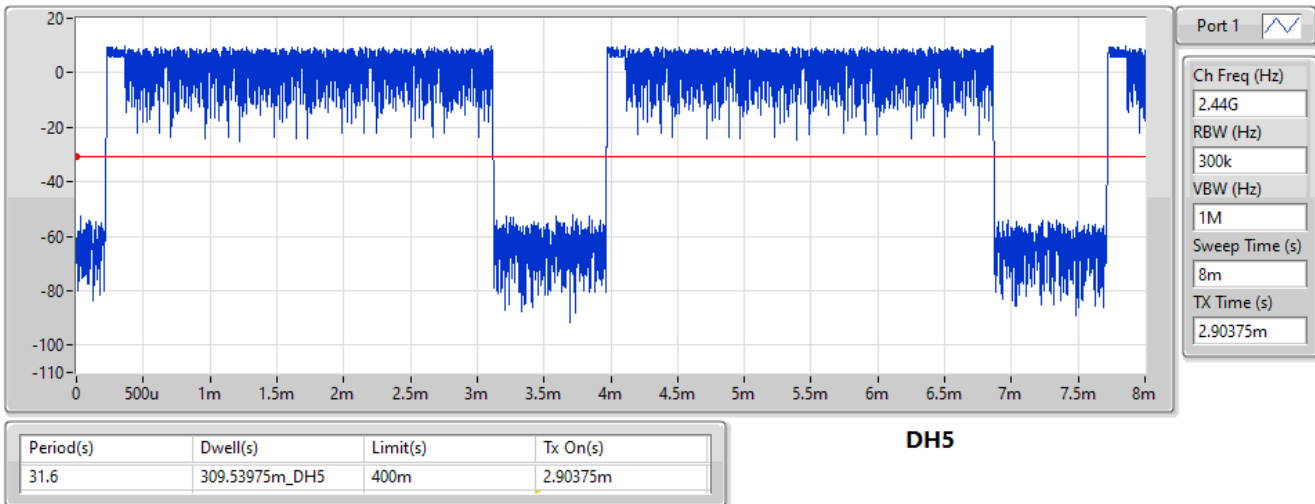
DH5-AFH

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

Dwell-FS

2440MHz

02/08/2024

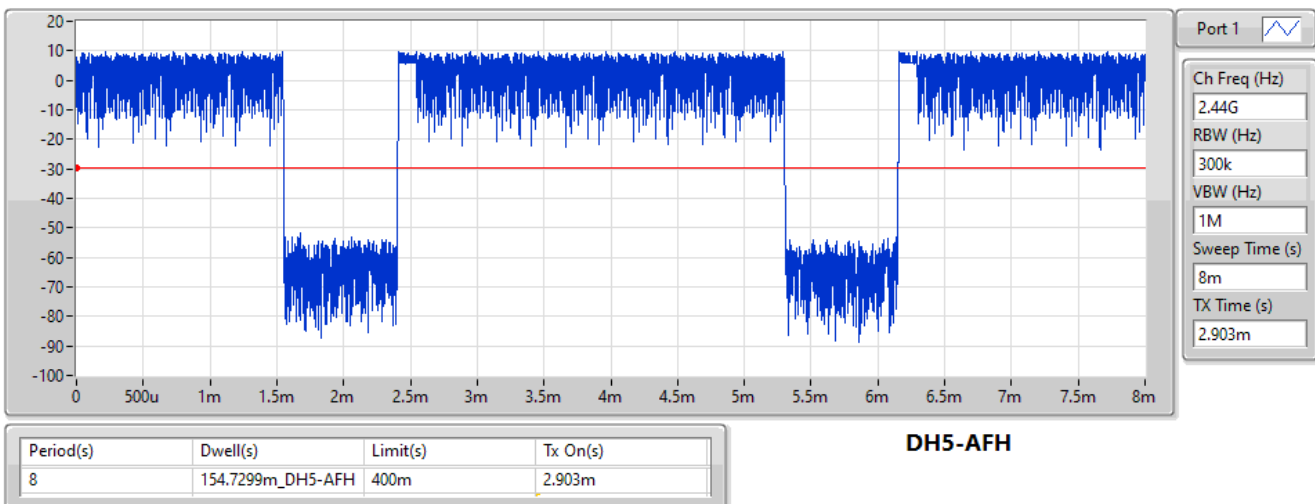


## 2.4-2.4835GHz\_BT-EDR(3Mbps)

Dwell-FS

2440MHz

02/08/2024



**Summary**

| Mode          | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|---------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 2.4-2.4835GHz | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| BT-BR(1Mbps)  | Pass   | 2.48033G    | 9.02         | -10.98         | 2.12738G     | -54.66         | 2.39992G     | -44.60         | 2.4G         | -43.72         | 2.50094G     | -52.92         | 21.42868G    | -43.41         | 1    |
| BT-EDR(2Mbps) | Pass   | 2.40217G    | 7.34         | -12.66         | 2.17908G     | -54.60         | 2.4G         | -44.82         | 2.4G         | -45.24         | 2.5019G      | -52.03         | 21.5271G     | -44.62         | 1    |
| BT-EDR(3Mbps) | Pass   | 2.40184G    | 7.05         | -12.95         | 2.18613G     | -55.24         | 2.4G         | -45.82         | 2.4G         | -44.17         | 2.50278G     | -52.59         | 21.61709G    | -44.23         | 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   | 2.48033G    | 9.02         | -10.98         | 2.12738G     | -54.66         | 2.39992G     | -44.60         | 2.4G         | -43.72         | 2.50094G     | -52.92         | 21.42868G    | -43.41         | 1    |
| 2440MHz       | Pass   | 2.48033G    | 9.02         | -10.98         | 2.12385G     | -54.64         | 2.39624G     | -51.31         | 2.4G         | -57.07         | 2.5013G      | -52.34         | 21.68177G    | -43.93         | 1    |
| 2480MHz       | Pass   | 2.48033G    | 9.02         | -10.98         | 2.17908G     | -54.74         | 2.39044G     | -52.49         | 2.4G         | -57.78         | 2.5025G      | -52.67         | 21.56928G    | -44.61         | 1    |
| BT-EDR(2Mbps) | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2402MHz       | Pass   | 2.40217G    | 7.34         | -12.66         | 2.17908G     | -54.60         | 2.4G         | -44.82         | 2.4G         | -45.24         | 2.5019G      | -52.03         | 21.5271G     | -44.62         | 1    |
| 2440MHz       | Pass   | 2.40217G    | 7.34         | -12.66         | 1.7784G      | -54.86         | 2.3958G      | -51.91         | 2.4G         | -56.12         | 2.50214G     | -52.27         | 21.53554G    | -44.20         | 1    |
| 2480MHz       | Pass   | 2.40217G    | 7.34         | -12.66         | 2.06628G     | -55.50         | 2.39148G     | -52.93         | 2.4G         | -55.60         | 2.50326G     | -52.38         | 21.48773G    | -44.23         | 1    |
| BT-EDR(3Mbps) | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2402MHz       | Pass   | 2.40184G    | 7.05         | -12.95         | 2.18613G     | -55.24         | 2.4G         | -45.82         | 2.4G         | -44.17         | 2.50278G     | -52.59         | 21.61709G    | -44.23         | 1    |
| 2440MHz       | Pass   | 2.40184G    | 7.05         | -12.95         | 1.78075G     | -54.18         | 2.39008G     | -52.43         | 2.4G         | -57.13         | 2.50118G     | -51.90         | 21.71832G    | -44.59         | 1    |
| 2480MHz       | Pass   | 2.40184G    | 7.05         | -12.95         | 1.85478G     | -54.99         | 2.39584G     | -52.79         | 2.4G         | -56.66         | 2.50334G     | -51.25         | 21.54116G    | -44.33         | 1    |

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

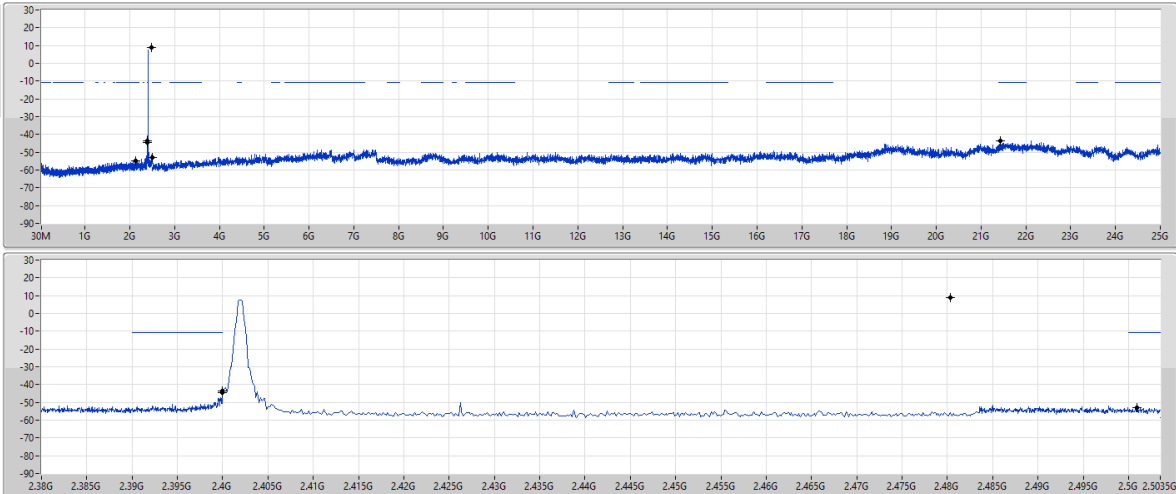
CSENdB-FS

2402MHz

02/08/2024

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

Port 1



| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.48033G | 9.02     | -10.98     | 2.12738G | -54.66     | 2.39992G | -44.60     | 2.4G     | -43.72     | 2.50094G | -52.92     | 2.142868G | -43.41     | 1    |

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

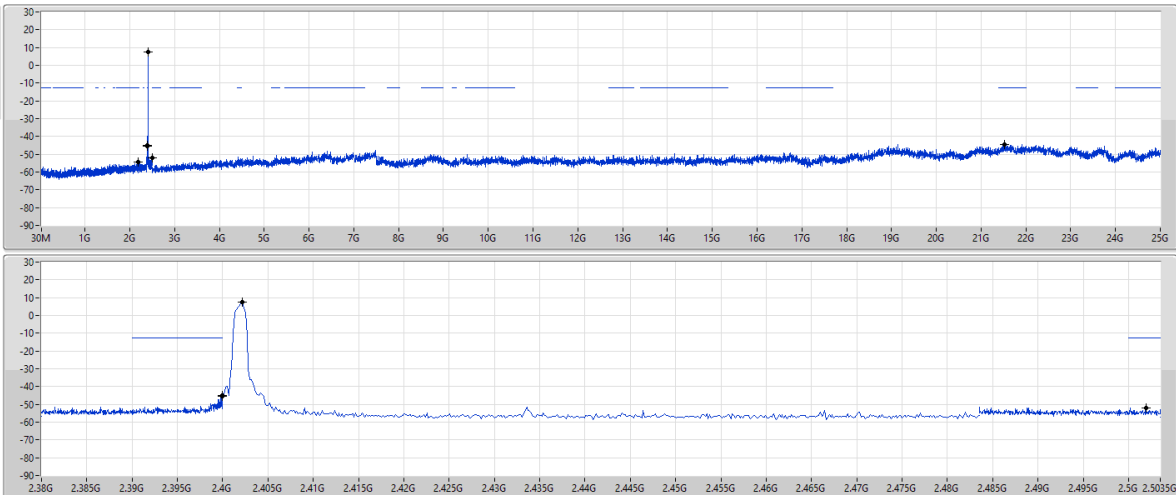
CSENdB-FS

2402MHz

02/08/2024

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

Port 1



| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|------|
| 2.40217G | 7.34     | -12.66     | 2.17908G | -54.60     | 2.4G     | -44.82     | 2.4G     | -43.24     | 2.5019G  | -52.03     | 2.15271G | -44.62     | 1    |

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

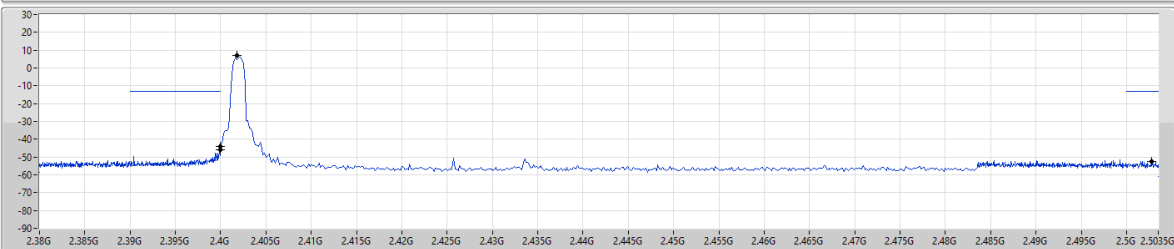
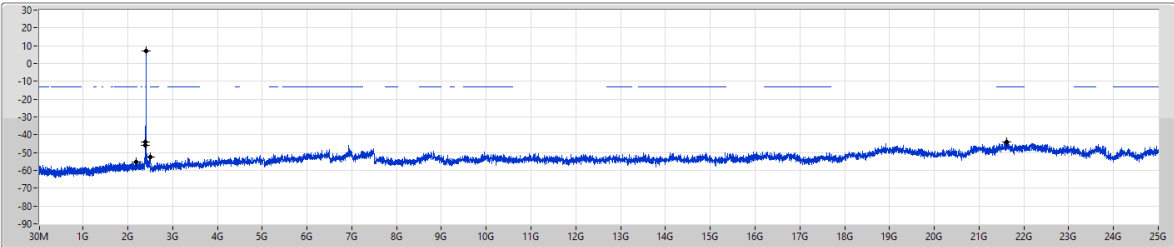
CSEndB-FS

2402MHz

02/08/2024

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

Port 1



| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.40184G | 7.05     | -12.95     | 2.18613G | -55.24     | 2.4G     | -45.82     | 2.4G     | -44.17     | 2.50278G | -52.59     | 21.61709G | -44.23     | 1    |



**Summary**

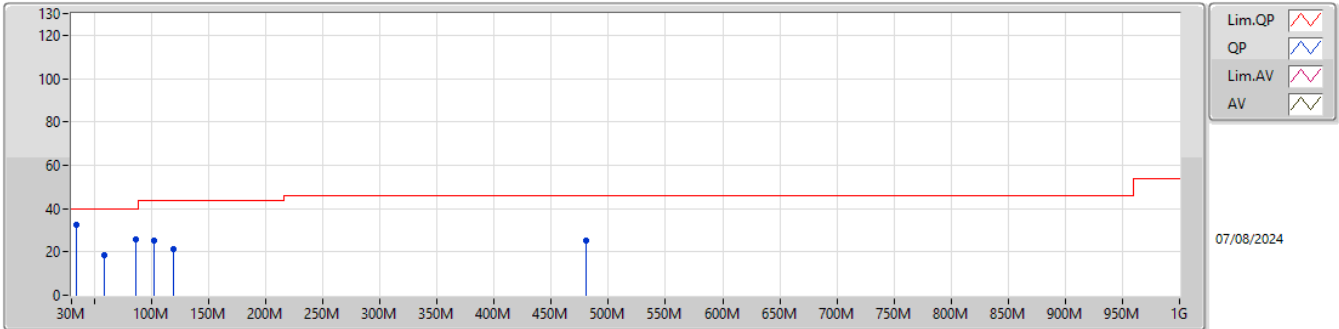
| Mode          | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) |
|---------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|
| 2.4-2.4835GHz | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             |
| BT-EDR(3Mbps) | Pass   | PK   | 30M          | 33.45             | 40.00             | -6.55          | 3           | Horizontal | 0              | 1.00          |

**Result**

| 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) |
|-----------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|
| BT-EDR(3Mbps)   | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             |
| 2440MHz_USB     | Pass   | PK   | 33.88M       | 32.45             | 40.00             | -7.55          | 3           | Vertical   | 360            | 1.00          |
| 2440MHz_USB     | Pass   | PK   | 59.1M        | 18.73             | 40.00             | -21.27         | 3           | Vertical   | 360            | 1.00          |
| 2440MHz_USB     | Pass   | PK   | 86.26M       | 25.90             | 40.00             | -14.10         | 3           | Vertical   | 360            | 1.00          |
| 2440MHz_USB     | Pass   | PK   | 101.78M      | 25.15             | 43.50             | -18.35         | 3           | Vertical   | 360            | 1.00          |
| 2440MHz_USB     | Pass   | PK   | 119.24M      | 21.37             | 43.50             | -22.13         | 3           | Vertical   | 360            | 1.00          |
| 2440MHz_USB     | Pass   | PK   | 480.08M      | 25.10             | 46.00             | -20.90         | 3           | Vertical   | 360            | 1.00          |
| 2440MHz_USB     | Pass   | PK   | 30M          | 33.45             | 40.00             | -6.55          | 3           | Horizontal | 0              | 1.00          |
| 2440MHz_USB     | Pass   | PK   | 101.78M      | 26.31             | 43.50             | -17.19         | 3           | Horizontal | 0              | 1.00          |
| 2440MHz_USB     | Pass   | PK   | 119.24M      | 25.09             | 43.50             | -18.41         | 3           | Horizontal | 0              | 1.00          |
| 2440MHz_USB     | Pass   | PK   | 262.8M       | 21.22             | 46.00             | -24.78         | 3           | Horizontal | 0              | 1.00          |
| 2440MHz_USB     | Pass   | PK   | 427.7M       | 25.52             | 46.00             | -20.48         | 3           | Horizontal | 0              | 1.00          |
| 2440MHz_USB     | Pass   | PK   | 487.84M      | 26.00             | 46.00             | -20.00         | 3           | Horizontal | 0              | 1.00          |
| 2440MHz_Adapter | Pass   | PK   | 35.82M       | 32.26             | 40.00             | -7.74          | 3           | Vertical   | 0              | 1.00          |
| 2440MHz_Adapter | Pass   | PK   | 47.46M       | 30.59             | 40.00             | -9.41          | 3           | Vertical   | 0              | 1.00          |
| 2440MHz_Adapter | Pass   | PK   | 64.92M       | 28.36             | 40.00             | -11.64         | 3           | Vertical   | 0              | 1.00          |
| 2440MHz_Adapter | Pass   | PK   | 78.5M        | 21.69             | 40.00             | -18.31         | 3           | Vertical   | 0              | 1.00          |
| 2440MHz_Adapter | Pass   | PK   | 187.14M      | 19.08             | 43.50             | -24.42         | 3           | Vertical   | 0              | 1.00          |
| 2440MHz_Adapter | Pass   | PK   | 522.76M      | 23.88             | 46.00             | -22.12         | 3           | Vertical   | 0              | 1.00          |
| 2440MHz_Adapter | Pass   | PK   | 30M          | 26.67             | 40.00             | -13.33         | 3           | Horizontal | 0              | 1.00          |
| 2440MHz_Adapter | Pass   | PK   | 45.52M       | 23.44             | 40.00             | -16.56         | 3           | Horizontal | 0              | 1.00          |
| 2440MHz_Adapter | Pass   | PK   | 78.5M        | 24.04             | 40.00             | -15.96         | 3           | Horizontal | 0              | 1.00          |
| 2440MHz_Adapter | Pass   | PK   | 187.14M      | 22.88             | 43.50             | -20.62         | 3           | Horizontal | 0              | 1.00          |
| 2440MHz_Adapter | Pass   | PK   | 258.92M      | 21.84             | 46.00             | -24.16         | 3           | Horizontal | 0              | 1.00          |
| 2440MHz_Adapter | Pass   | PK   | 383.08M      | 28.01             | 46.00             | -17.99         | 3           | Horizontal | 0              | 1.00          |

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

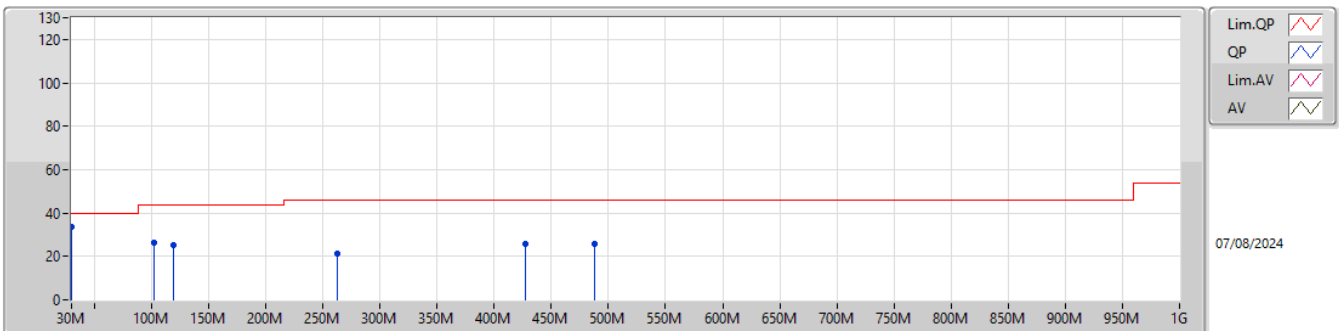
2440MHz\_USB



| 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) | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------------|------------|------------|------------|--|--|--|--|
| PK   | 33.88M       | 32.45             | 40.00             | -7.55          | -5.17          | 3           | Vertical  | 360            | 1.00          | 37.62         | 21.52      | 0.69       | 27.38      |  |  |  |  |
| PK   | 59.1M        | 18.73             | 40.00             | -21.27         | -15.00         | 3           | Vertical  | 360            | 1.00          | 33.73         | 11.41      | 0.93       | 27.34      |  |  |  |  |
| PK   | 86.26M       | 25.90             | 40.00             | -14.10         | -12.69         | 3           | Vertical  | 360            | 1.00          | 38.59         | 13.45      | 1.13       | 27.27      |  |  |  |  |
| PK   | 101.78M      | 25.15             | 43.50             | -18.35         | -10.19         | 3           | Vertical  | 360            | 1.00          | 35.34         | 15.93      | 1.12       | 27.24      |  |  |  |  |
| PK   | 119.24M      | 21.37             | 43.50             | -22.13         | -8.86          | 3           | Vertical  | 360            | 1.00          | 30.23         | 17.02      | 1.31       | 27.19      |  |  |  |  |
| PK   | 480.08M      | 25.10             | 46.00             | -20.90         | -3.16          | 3           | Vertical  | 360            | 1.00          | 28.26         | 22.38      | 2.46       | 28.00      |  |  |  |  |

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

2440MHz\_USB



| 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) | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |  |  |  |  |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------------|------------|------------|------------|--|--|--|--|
| PK   | 30M          | 33.45             | 40.00             | -6.55          | -3.45          | 3           | Horizontal | 0              | 1.00          | 36.90         | 23.36      | 0.57       | 27.38      |  |  |  |  |
| PK   | 101.78M      | 26.31             | 43.50             | -17.19         | -10.19         | 3           | Horizontal | 0              | 1.00          | 36.50         | 15.93      | 1.12       | 27.24      |  |  |  |  |
| PK   | 119.24M      | 25.09             | 43.50             | -18.41         | -8.86          | 3           | Horizontal | 0              | 1.00          | 33.95         | 17.02      | 1.31       | 27.19      |  |  |  |  |
| PK   | 262.8M       | 21.22             | 46.00             | -24.78         | -6.24          | 3           | Horizontal | 0              | 1.00          | 27.46         | 18.59      | 1.82       | 26.65      |  |  |  |  |
| PK   | 427.7M       | 25.52             | 46.00             | -20.48         | -3.66          | 3           | Horizontal | 0              | 1.00          | 29.18         | 21.61      | 2.41       | 27.68      |  |  |  |  |
| PK   | 487.84M      | 26.00             | 46.00             | -20.00         | -3.04          | 3           | Horizontal | 0              | 1.00          | 29.04         | 22.52      | 2.46       | 28.02      |  |  |  |  |



**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) |
|---------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|
| 2.4-2.4835GHz | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             |
| BT-BR(1Mbps)  | Pass   | PK   | 2.4958G      | 57.87             | 74.00             | -16.13         | 3           | Horizontal | 256            | 1.53          |
| BT-EDR(3Mbps) | Pass   | PK   | 2.4898G      | 57.46             | 74.00             | -16.54         | 3           | Horizontal | 12             | 1.14          |

Result

| Mode          | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) |
|---------------|--------|------|-----------|----------------|----------------|-------------|----------|------------|-------------|------------|
| BT-BR(1Mbps)  | -      | -    | -         | -              | -              | -           | -        | -          | -           | -          |
| 2402MHz       | Pass   | AV   | 2.3887G   | 34.83          | 54.00          | -19.17      | 3        | Vertical   | 202         | 2.02       |
| 2402MHz       | Pass   | AV   | 2.4018G   | 80.62          | Inf            | -Inf        | 3        | Vertical   | 202         | 2.02       |
| 2402MHz       | Pass   | PK   | 2.3887G   | 57.33          | 74.00          | -16.67      | 3        | Vertical   | 202         | 2.02       |
| 2402MHz       | Pass   | PK   | 2.4018G   | 103.12         | Inf            | -Inf        | 3        | Vertical   | 202         | 2.02       |
| 2402MHz       | Pass   | AV   | 2.368G    | 34.15          | 54.00          | -19.85      | 3        | Horizontal | 258         | 2.41       |
| 2402MHz       | Pass   | AV   | 2.4022G   | 78.49          | Inf            | -Inf        | 3        | Horizontal | 258         | 2.41       |
| 2402MHz       | Pass   | PK   | 2.368G    | 56.65          | 74.00          | -17.35      | 3        | Horizontal | 258         | 2.41       |
| 2402MHz       | Pass   | PK   | 2.4022G   | 100.99         | Inf            | -Inf        | 3        | Horizontal | 258         | 2.41       |
| 2402MHz       | Pass   | AV   | 4.8043G   | 23.32          | 54.00          | -30.68      | 3        | Vertical   | 40          | 2.44       |
| 2402MHz       | Pass   | PK   | 4.8043G   | 45.82          | 74.00          | -28.18      | 3        | Vertical   | 40          | 2.44       |
| 2402MHz       | Pass   | AV   | 4.80427G  | 24.42          | 54.00          | -29.58      | 3        | Horizontal | 292         | 1.00       |
| 2402MHz       | Pass   | PK   | 4.80427G  | 46.92          | 74.00          | -27.08      | 3        | Horizontal | 292         | 1.00       |
| 2440MHz       | Pass   | AV   | 2.372G    | 34.53          | 54.00          | -19.47      | 3        | Vertical   | 199         | 2.01       |
| 2440MHz       | Pass   | AV   | 2.4398G   | 73.94          | Inf            | -Inf        | 3        | Vertical   | 199         | 2.01       |
| 2440MHz       | Pass   | AV   | 2.4986G   | 35.01          | 54.00          | -18.99      | 3        | Vertical   | 199         | 2.01       |
| 2440MHz       | Pass   | PK   | 2.372G    | 57.03          | 74.00          | -16.97      | 3        | Vertical   | 199         | 2.01       |
| 2440MHz       | Pass   | PK   | 2.4398G   | 96.44          | Inf            | -Inf        | 3        | Vertical   | 199         | 2.01       |
| 2440MHz       | Pass   | PK   | 2.4986G   | 57.51          | 74.00          | -16.49      | 3        | Vertical   | 199         | 2.01       |
| 2440MHz       | Pass   | AV   | 2.3838G   | 33.93          | 54.00          | -20.07      | 3        | Horizontal | 257         | 1.56       |
| 2440MHz       | Pass   | AV   | 2.4398G   | 64.48          | Inf            | -Inf        | 3        | Horizontal | 257         | 1.56       |
| 2440MHz       | Pass   | AV   | 2.4904G   | 34.75          | 54.00          | -19.25      | 3        | Horizontal | 257         | 1.56       |
| 2440MHz       | Pass   | PK   | 2.3838G   | 56.43          | 74.00          | -17.57      | 3        | Horizontal | 257         | 1.56       |
| 2440MHz       | Pass   | PK   | 2.4398G   | 86.98          | Inf            | -Inf        | 3        | Horizontal | 257         | 1.56       |
| 2440MHz       | Pass   | PK   | 2.4904G   | 57.25          | 74.00          | -16.75      | 3        | Horizontal | 257         | 1.56       |
| 2440MHz       | Pass   | AV   | 4.87966G  | 21.50          | 54.00          | -32.50      | 3        | Vertical   | 40          | 2.26       |
| 2440MHz       | Pass   | PK   | 4.87966G  | 44.00          | 74.00          | -30.00      | 3        | Vertical   | 40          | 2.26       |
| 2440MHz       | Pass   | AV   | 4.88026G  | 21.71          | 54.00          | -32.29      | 3        | Horizontal | 198         | 2.64       |
| 2440MHz       | Pass   | PK   | 4.88026G  | 44.21          | 74.00          | -29.79      | 3        | Horizontal | 198         | 2.64       |
| 2480MHz       | Pass   | AV   | 2.4802G   | 73.10          | Inf            | -Inf        | 3        | Vertical   | 198         | 2.18       |
| 2480MHz       | Pass   | AV   | 2.4868G   | 34.99          | 54.00          | -19.01      | 3        | Vertical   | 198         | 2.18       |
| 2480MHz       | Pass   | PK   | 2.4802G   | 95.60          | Inf            | -Inf        | 3        | Vertical   | 198         | 2.18       |
| 2480MHz       | Pass   | PK   | 2.4868G   | 57.49          | 74.00          | -16.51      | 3        | Vertical   | 198         | 2.18       |
| 2480MHz       | Pass   | AV   | 2.4799G   | 64.38          | Inf            | -Inf        | 3        | Horizontal | 256         | 1.53       |
| 2480MHz       | Pass   | AV   | 2.4958G   | 35.37          | 54.00          | -18.63      | 3        | Horizontal | 256         | 1.53       |
| 2480MHz       | Pass   | PK   | 2.4799G   | 86.88          | Inf            | -Inf        | 3        | Horizontal | 256         | 1.53       |
| 2480MHz       | Pass   | PK   | 2.4958G   | 57.87          | 74.00          | -16.13      | 3        | Horizontal | 256         | 1.53       |
| 2480MHz       | Pass   | AV   | 4.95963G  | 20.79          | 54.00          | -33.21      | 3        | Vertical   | 166         | 1.50       |
| 2480MHz       | Pass   | PK   | 4.95963G  | 43.29          | 74.00          | -30.71      | 3        | Vertical   | 166         | 1.50       |
| 2480MHz       | Pass   | AV   | 4.95734G  | 19.24          | 54.00          | -34.76      | 3        | Horizontal | 336         | 1.50       |
| 2480MHz       | Pass   | PK   | 4.95734G  | 41.74          | 74.00          | -32.26      | 3        | Horizontal | 336         | 1.50       |
| BT-EDR(3Mbps) | -      | -    | -         | -              | -              | -           | -        | -          | -           | -          |
| 2402MHz       | Pass   | AV   | 2.3651G   | 34.39          | 54.00          | -19.61      | 3        | Vertical   | 183         | 1.17       |
| 2402MHz       | Pass   | AV   | 2.402G    | 78.06          | Inf            | -Inf        | 3        | Vertical   | 183         | 1.17       |
| 2402MHz       | Pass   | PK   | 2.3651G   | 56.89          | 74.00          | -17.11      | 3        | Vertical   | 183         | 1.17       |
| 2402MHz       | Pass   | PK   | 2.402G    | 100.56         | Inf            | -Inf        | 3        | Vertical   | 183         | 1.17       |
| 2402MHz       | Pass   | AV   | 2.3617G   | 34.93          | 54.00          | -19.07      | 3        | Horizontal | 66          | 1.17       |
| 2402MHz       | Pass   | AV   | 2.402G    | 78.06          | Inf            | -Inf        | 3        | Horizontal | 66          | 1.17       |
| 2402MHz       | Pass   | PK   | 2.3617G   | 57.43          | 74.00          | -16.57      | 3        | Horizontal | 66          | 1.17       |
| 2402MHz       | Pass   | PK   | 2.402G    | 100.56         | Inf            | -Inf        | 3        | Horizontal | 66          | 1.17       |
| 2402MHz       | Pass   | AV   | 4.804G    | 24.14          | 54.00          | -29.86      | 3        | Vertical   | 336         | 1.50       |
| 2402MHz       | Pass   | PK   | 4.80429G  | 46.64          | 74.00          | -27.36      | 3        | Vertical   | 336         | 1.50       |
| 2402MHz       | Pass   | AV   | 4.80422G  | 25.61          | 54.00          | -28.39      | 3        | Horizontal | 291         | 1.00       |
| 2402MHz       | Pass   | PK   | 4.80422G  | 48.11          | 74.00          | -25.89      | 3        | Horizontal | 291         | 1.00       |
| 2440MHz       | Pass   | AV   | 2.3588G   | 34.15          | 54.00          | -19.85      | 3        | Vertical   | 139         | 1.50       |
| 2440MHz       | Pass   | AV   | 2.44G     | 79.06          | Inf            | -Inf        | 3        | Vertical   | 139         | 1.50       |
| 2440MHz       | Pass   | AV   | 2.484G    | 34.49          | 54.00          | -19.51      | 3        | Vertical   | 139         | 1.50       |
| 2440MHz       | Pass   | PK   | 2.3588G   | 56.65          | 74.00          | -17.35      | 3        | Vertical   | 139         | 1.50       |
| 2440MHz       | Pass   | PK   | 2.44G     | 101.56         | Inf            | -Inf        | 3        | Vertical   | 139         | 1.50       |
| 2440MHz       | Pass   | PK   | 2.484G    | 56.99          | 74.00          | -17.01      | 3        | Vertical   | 139         | 1.50       |
| 2440MHz       | Pass   | AV   | 2.3728G   | 33.81          | 54.00          | -20.19      | 3        | Horizontal | 12          | 1.14       |



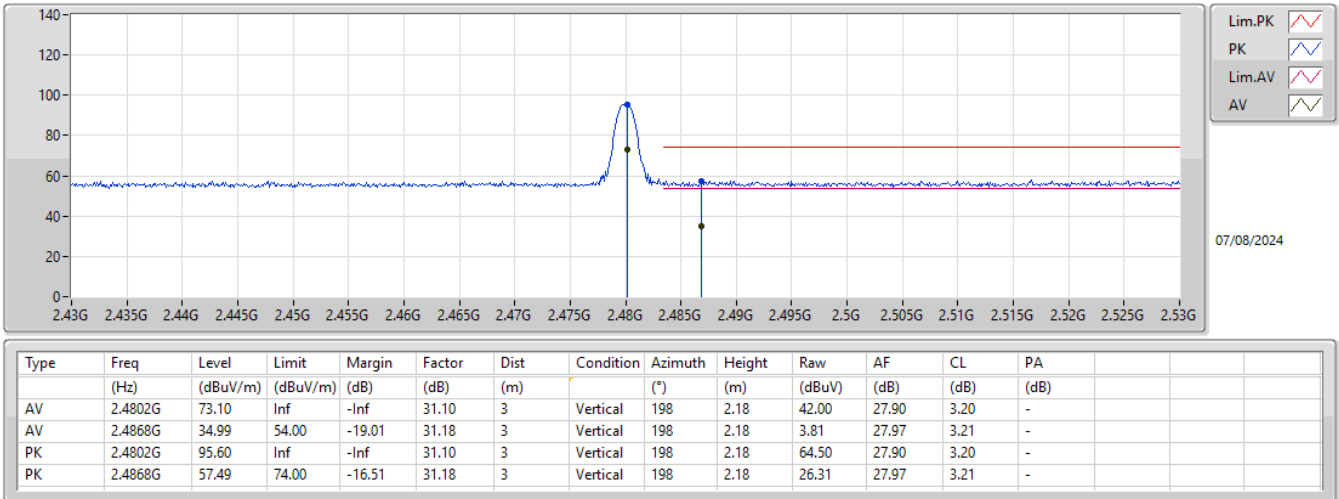
## RSE TX above 1GHz

## Appendix G.2

| 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) |
|---------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|
| 2440MHz | Pass   | AV   | 2.44G        | 77.71             | Inf               | -Inf           | 3           | Horizontal | 12             | 1.14          |
| 2440MHz | Pass   | AV   | 2.4898G      | 34.96             | 54.00             | -19.04         | 3           | Horizontal | 12             | 1.14          |
| 2440MHz | Pass   | PK   | 2.3728G      | 56.31             | 74.00             | -17.69         | 3           | Horizontal | 12             | 1.14          |
| 2440MHz | Pass   | PK   | 2.44G        | 100.21            | Inf               | -Inf           | 3           | Horizontal | 12             | 1.14          |
| 2440MHz | Pass   | PK   | 2.4898G      | 57.46             | 74.00             | -16.54         | 3           | Horizontal | 12             | 1.14          |
| 2440MHz | Pass   | AV   | 4.88006G     | 24.07             | 54.00             | -29.93         | 3           | Vertical   | 70             | 1.06          |
| 2440MHz | Pass   | PK   | 4.87977G     | 46.57             | 74.00             | -27.43         | 3           | Vertical   | 70             | 1.06          |
| 2440MHz | Pass   | AV   | 4.88001G     | 26.43             | 54.00             | -27.57         | 3           | Horizontal | 302            | 1.18          |
| 2440MHz | Pass   | PK   | 4.8801G      | 48.93             | 74.00             | -25.07         | 3           | Horizontal | 302            | 1.18          |
| 2480MHz | Pass   | AV   | 2.48G        | 78.05             | Inf               | -Inf           | 3           | Vertical   | 140            | 1.06          |
| 2480MHz | Pass   | AV   | 2.4835G      | 34.69             | 54.00             | -19.31         | 3           | Vertical   | 140            | 1.06          |
| 2480MHz | Pass   | PK   | 2.48G        | 100.55            | Inf               | -Inf           | 3           | Vertical   | 140            | 1.06          |
| 2480MHz | Pass   | PK   | 2.4835G      | 57.19             | 74.00             | -16.81         | 3           | Vertical   | 140            | 1.06          |
| 2480MHz | Pass   | AV   | 2.48G        | 75.19             | Inf               | -Inf           | 3           | Horizontal | 355            | 1.57          |
| 2480MHz | Pass   | AV   | 2.487G       | 34.65             | 54.00             | -19.35         | 3           | Horizontal | 355            | 1.57          |
| 2480MHz | Pass   | PK   | 2.48G        | 97.69             | Inf               | -Inf           | 3           | Horizontal | 355            | 1.57          |
| 2480MHz | Pass   | PK   | 2.487G       | 57.15             | 74.00             | -16.85         | 3           | Horizontal | 355            | 1.57          |
| 2480MHz | Pass   | PK   | 4.96047G     | 46.00             | 74.00             | -28.00         | 3           | Vertical   | 75             | 1.00          |
| 2480MHz | Pass   | AV   | 4.96047G     | 23.50             | 54.00             | -30.50         | 3           | Vertical   | 75             | 1.00          |
| 2480MHz | Pass   | AV   | 4.95968G     | 26.55             | 54.00             | -27.45         | 3           | Horizontal | 199            | 2.77          |
| 2480MHz | Pass   | PK   | 4.95968G     | 49.05             | 74.00             | -24.95         | 3           | Horizontal | 199            | 2.77          |

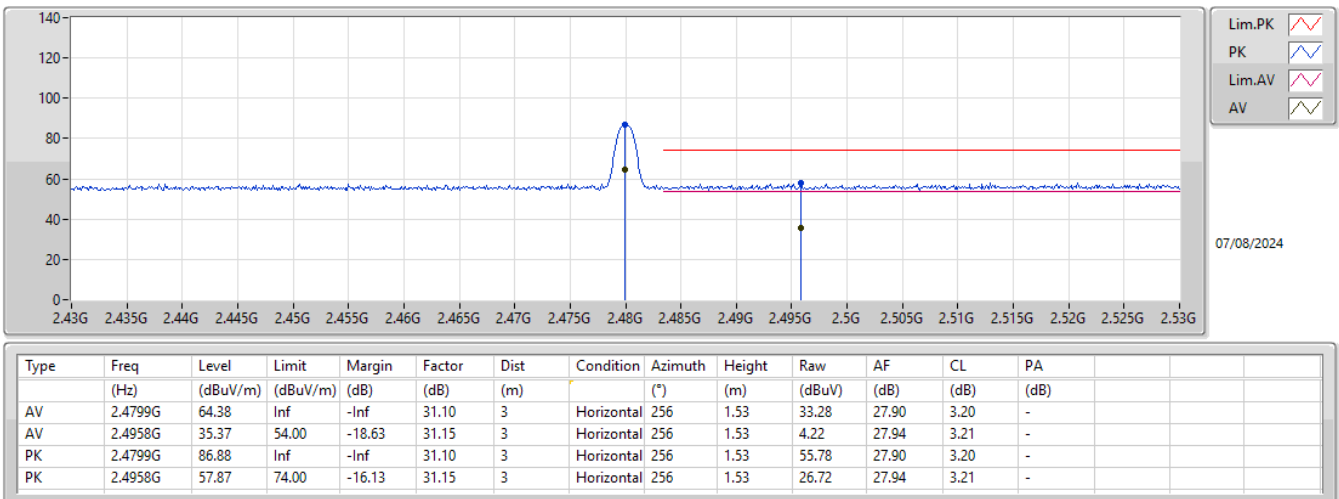
## 2.4-2.4835GHz\_BT-BR(1Mbps)

### 2480MHz\_TX



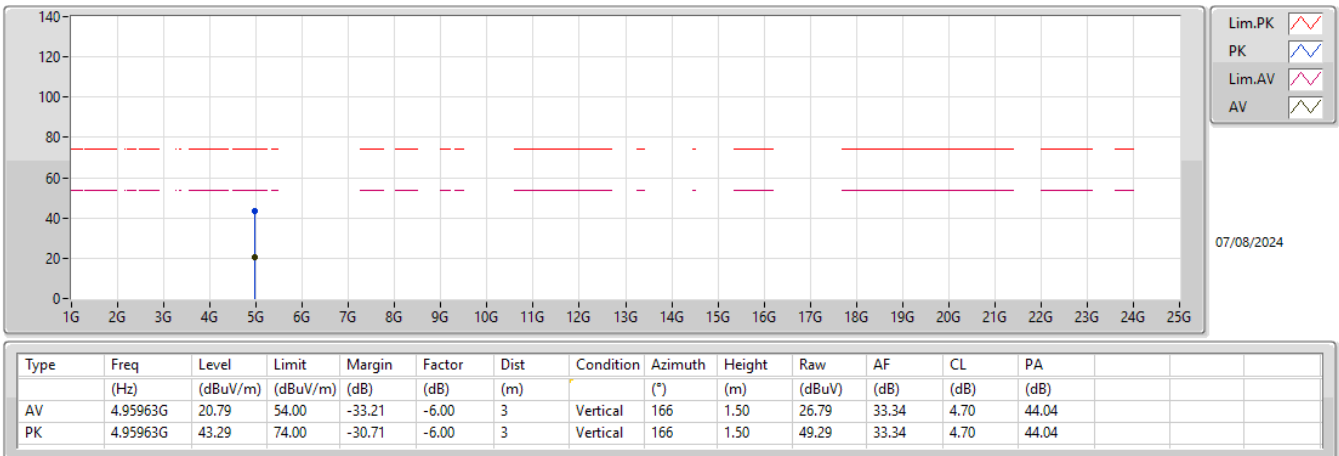
## 2.4-2.4835GHz\_BT-BR(1Mbps)

### 2480MHz\_TX



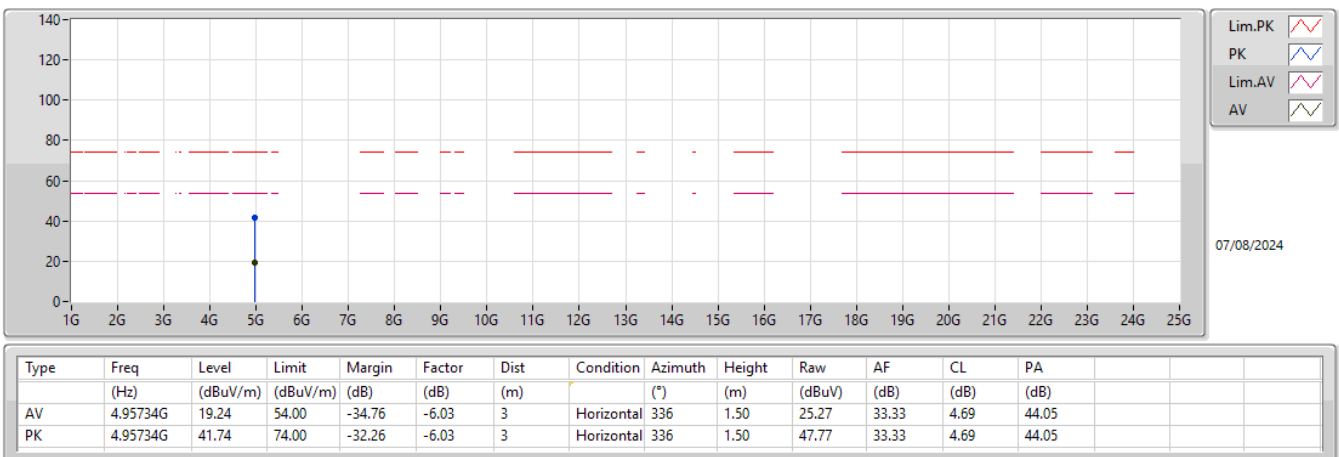
## 2.4-2.4835GHz\_BT-BR(1Mbps)

### 2480MHz\_TX



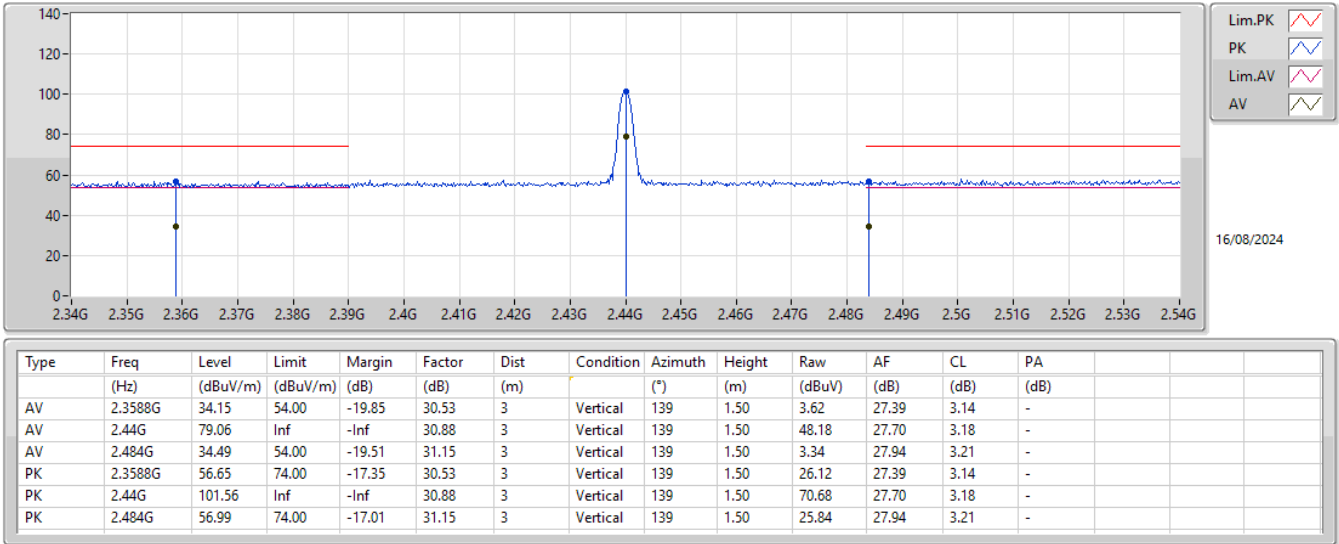
## 2.4-2.4835GHz\_BT-BR(1Mbps)

### 2480MHz\_TX



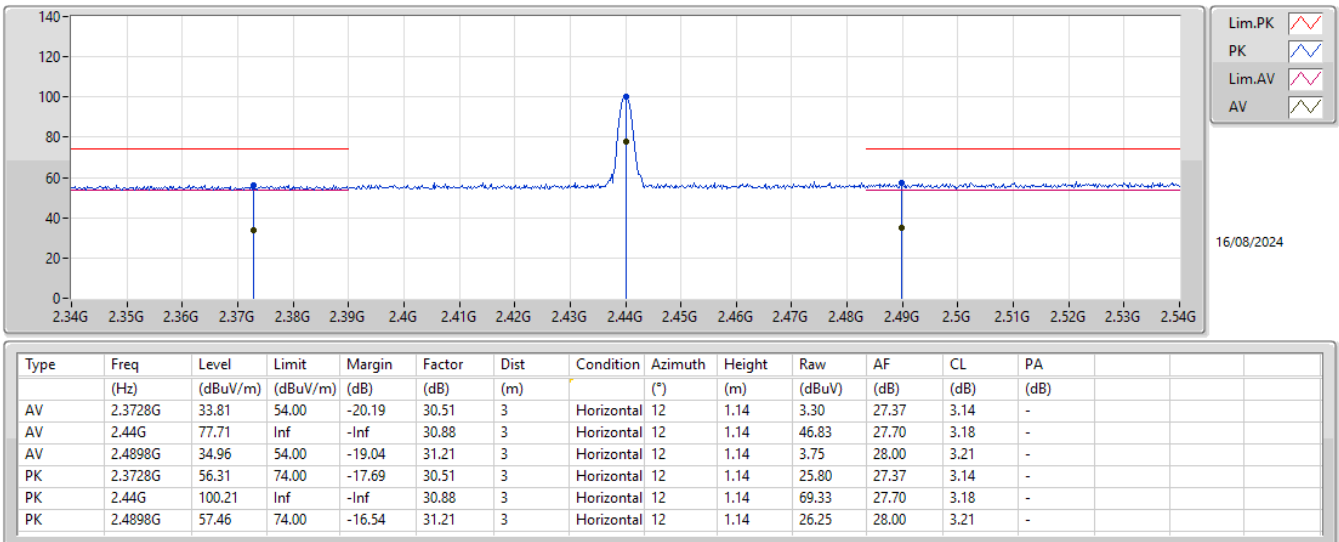
## 2.4-2.4835GHz\_BT-EDR(3Mbps)

### 2440MHz\_TX



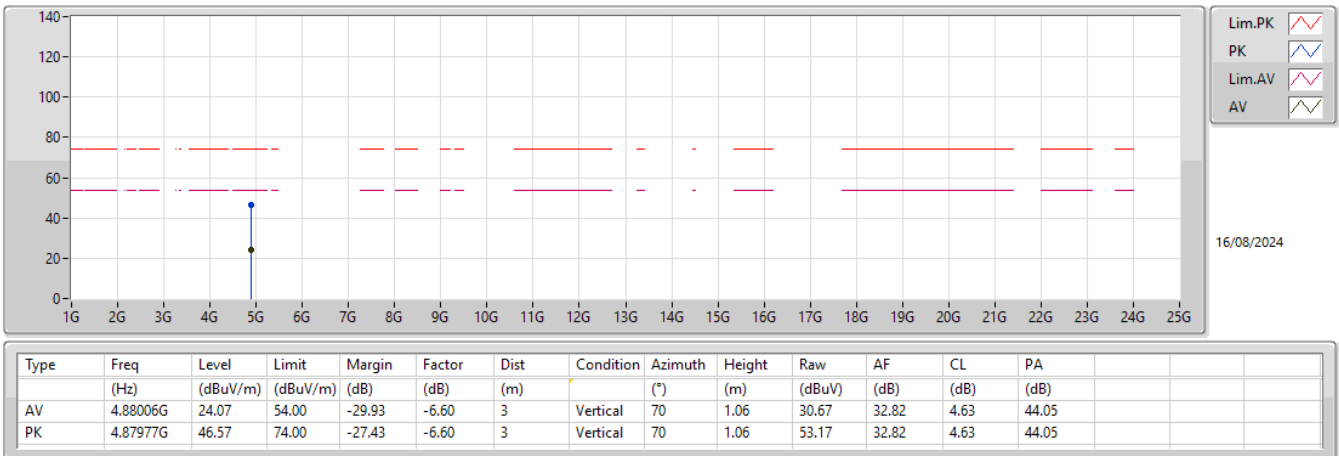
## 2.4-2.4835GHz\_BT-EDR(3Mbps)

### 2440MHz\_TX



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

### 2440MHz\_TX



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

### 2440MHz\_TX

