# FCC Test Report

| | | |
|---|---|---|
| **Equipment** | : | **802.11ac Tri Band PoE Access Point** |
| **Brand Name** | : | **LITE-ON, MOJO** |
| **Model No.** | : | **WP9333, WP9331, O-105, WP9331-FM** |
| **FCC ID** | : | **PPQ-WP9333** |
| **Standard** | : | **47 CFR FCC Part 15.247** |
| **Operating Band** | : | **2400 MHz – 2483.5 MHz** |
| **Function** | : | **☒Point-to-multipoint; ☐Point-to-point** |
| **Applicant** | : | **LITE-ON Technology Corp. Bldg. C, 90, Chien 1 Rd., Chung-Ho, New Taipei City, 23585 Taiwan** |
| **Manufacturer** | : | **Lite-On Network Communication (Dongguan) Limited 30#Keji Rd.,Yin Hu Industrial Area,Qingxi Town,DongGuan City,Guangdong,China** |

**The product sample received on Sep. 07, 2017 and completely tested on Oct. 03, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.**

**The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONALINC., the test report shall not be reproduced except in full.**

Phoenix Chen / Assistant Manager

Testing Laboratory
1190

# Table of Contents

# Summary of Test Result

| Conformance Test Specifications | | | | |
|---|---|---|---|---|
| **Report Clause** | **Ref. Std. Clause** | **Description** | **Limit** | **Result** |
| 1.1.2 | 15.203 | Antenna Requirement | FCC 15.203 | Complied |
| 3.1 | 15.207 | AC Power-line Conducted Emissions | FCC 15.207 | Complied |
| 3.2 | 15.247(a) | 20dB Bandwidth | 15.247(a) | Complied |
| 3.2 | 15.247(a) | Carrier Frequency Separation | 15.247(a) | Complied |
| 3.3 | 15.247(b) | Maximum Conducted Output Power | 15.247(b) | Complied |
| 3.4 | 15.247(a) | Number of Hopping Frequencies and Hopping Bandedge | 15.247(a) | Complied |
| 3.5 | 15.247(a) | Time of Occupancy (Dwell Time) | 15.247(a) | Complied |
| 3.6 | 15.247(d) | Emissions in Non-restricted Frequency Bands | 15.247(d) | Complied |
| 3.7 | 15.247(d) | Emissions in Restricted Frequency Bands | Restricted Bands: FCC 15.209 | Complied |

# Revision History

| Report No. | Version | Description | Issued Date |
|---|---|---|---|
| FR790613AD | Rev. 01 | Initial issue of report | Jan. 19, 2018 |
| FR790613AD | Rev. 02 | Revise Typo | Jan. 22, 2018 |
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# 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 π/4-DQPSK (2Mbps) and 8DPSK (3Mbps).
- Bluetooth BR/EDR uses as a system using FHSS modulation.
- BWch is the nominal channel bandwidth.

### 1.1.2 Antenna Information

| Ant. | Port | Brand | Model Name | Antenna Type | Connector | Radio |
|---|---|---|---|---|---|---|
| 1 | 2 | Walsin | RFMTA400809MMLB901 | Metal Antenna | MMCX | R1 |
| 2 | 1 | Walsin | RFMTA400811MMLB901 | Metal Antenna | MMCX | R1 |
| 3 | 2 | Walsin | RFMTA400814MM5B901 | Metal Antenna | MMCX | R2 |
| 4 | 1 | Walsin | RFMTA400816MM5B901 | Metal Antenna | MMCX | R2 |
| 5 | 2 | Master Wave Technology Co., Ltd | 98P7RPIPF000 | PCB Antenna | I-PEX | R3 |
| 6 | 1 | Master Wave Technology Co., Ltd | 98P7RPIPF001 | PCB Antenna | I-PEX | R3 |
| 7 | 1 | Walsin | RFPCA381017MMAB702 | PCB Antenna | MMCX | R4 |

| Ant. | Gain (dBi) | | | | | | |
|---|---|---|---|---|---|---|---|
| | Radio 1 | Radio 2 | | Radio 3 | | | Radio 4 |
| | 2.4G | 5G B1 | 5G B4 | 2.4G | 5G B1 | 5G B4 | BT |
| 1 | 5.9 | - | - | - | - | - | - |
| 2 | 5.9 | - | - | - | - | - | - |
| 3 | - | 6.2 | 6.4 | - | - | - | - |
| 4 | - | 6.2 | 6.4 | - | - | - | - |
| 5 | - | - | - | 6.5 | 4.7 | 6.0 | - |
| 6 | - | - | - | 6.5 | 4.8 | 5.5 | - |
| 7 | - | - | - | - | - | - | 8.6 |

Note 1: The EUT has seven antennas.
Note 2: The EUT contain Radio 3 (2.4G)/(5G) RF module (Model Name: WM862FEMD, FCC ID: PPQ-WM862FEMD)

**For 2.4 GHz function:**

For IEEE 802.11b/g/n/ac mode (2TX/2RX)

**Radio 1**

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

**Radio 3**

Ant. 5 (port 2) and Ant. 6 (port 1) could transmit/receive simultaneously.

**For 5 GHz function:**

For IEEE 802.11a/n/ac mode (2TX/2RX)

**Radio 2 (For B1 and B4)**

Ant. 3 (port 2) and Ant. 4 (port 1) could transmit/receive simultaneously.

**Radio 3 (For B1 and B4)**

Ant. 5 (port 2) and Ant. 6 (port 1) could transmit/receive simultaneously.

**For Bluetooth function:**

For Bluetooth mode (1TX/1RX)

**Radio 4**

Only Ant. 7 (port 1) can be used as transmitting/receiving antenna.

### 1.1.3 EUT Information

| Operational Condition | | |
|---|---|---|
| **EUT Power Type** | From AC main / PoE | |
| **Type of EUT** | | |
| ☒ | Stand-alone | |
| ☐ | Combined (EUT where the radio part is fully integrated within another device) | |
| | Combined Equipment - Brand Name / Model No.: | … |
| ☐ | Plug-in radio (EUT intended for a variety of host systems) | |
| | Host System - Brand Name / Model No.: | … |
| ☐ | Other: | |

### 1.1.4 Mode Test Duty Cycle

| Mode | DC | DCF(dB) | T(s) | VBW(Hz) ≥ 1/T |
|---|---|---|---|---|
| BT-BR(1Mbps) | 0.448 | 3.487 | 2.899m | 1k |
| BT-EDR(2Mbps) | 0.464 | 3.335 | 2.906m | 1k |
| BT-EDR(3Mbps) | 0.443 | 3.536 | 2.907m | 1k |

### 1.1.5 Table for Multiple Listing

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

| Brand Name | Model Name | CPU | CPU Brand | DDR | DDR Brand | Flash | Flash Brand/Model |
|---|---|---|---|---|---|---|---|
| LITE-ON | WP9333 | IPQ4029 | Qualcomm Atheros | 256 | Micron | 64 | 1x64 MX25L51245GMI-08G MXIC |
| | | | | | | 32X2 | 2x32 25Q256JVFQ WINBOND |
| | | IPQ4019 | Qualcomm Atheros | 256 | Micron | 64 | 1x64 MX25L51245GMI-08G MXIC |
| | | | | | | 32X2 | 2x32 25Q256JVFQ WINBOND |
| | WP9331 | IPQ4029 | Qualcomm Atheros | 256 | Micron | 64 | 1x64 MX25L51245GMI-08G MXIC |
| | | | | | | 32X2 | 2x32 25Q256JVFQ WINBOND |
| | | IPQ4019 | Qualcomm Atheros | 256 | Micron | 64 | 1x64 MX25L51245GMI-08G MXIC |
| | | | | | | 32X2 | 2x32 25Q256JVFQ WINBOND |
| | WP9331-FM | IPQ4029 | Qualcomm Atheros | 512 | Micron | 64 | 1x64 MX25L51245GMI-08G MXIC |
| | | | | | | 32X2 | 2x32 25Q256JVFQ WINBOND |
| MOJO | O-105 | IPQ4029 | Qualcomm Atheros | 256 | Micron | 64 | 1x64 MX25L51245GMI-08G MXIC |
| | | | | | | 32X2 | 2x32 25Q256JVFQ WINBOND |
| | | IPQ4019 | Qualcomm Atheros | 256 | Micron | 64 | 1x64 MX25L51245GMI-08G MXIC |
| | | | | | | 32X2 | 2x32 25Q256JVFQ WINBOND |

| Brand Name | Model Name | Radio 1 | Radio 2 | Radio 3 | Radio 4 | EUT Power Type |
|---|---|---|---|---|---|---|
| LITE-ON | WP9333 | V | V | V | V | AC main / PoE |
| | WP9331 | V | V | X | V | PoE |
| | WP9331-FM | V | V | X | V | PoE |
| MOJO | O-105 | V | V | X | V | PoE |

Note:
Radio 1: 802.11ac 2.4G only
Radio 2: 802.11ac 5GHz on board
Radio 3: 802.11agnac PCIe card, 2.4G+5GB1/B4
Radio 4: Bluetooth (BT LE and BR/EDR) on board

## 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
- Public Notice DA 00-705
- ANSI C63.10-2013

## 1.3 Testing Location Information

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

| Test Condition | Test Site No. | Test Engineer | Test Environment | Test Date |
|---|---|---|---|---|
| RF Conducted | TH01-HY | Tim | 22.5°C / 66% | 12/Sep/2017 |
| Radiated | 03CH02-HY | Jerry | 23.5°C / 65% | 15/Sep/2017 |
| AC Conduction | CO04-HY | Jeff | 23.4°C / 53% | 03/Oct/2017 |

## 1.4 Measurement Uncertainty

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

| Test Items | Uncertainty | Remark |
|---|---|---|
| Conducted Emission (150kHz ~ 30MHz) | 3.6 dB | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 2.1 dB | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz) | 2.6 dB | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz) | 2.9 dB | Confidence levels of 95% |
| Conducted Emission | 1.3 dB | Confidence levels of 95% |

# 2 Test Configuration of EUT

## 2.1 Test Condition

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

## 2.2 Test Channel Mode

| Test Software | Dos |
|---|---|

| Mode | Power Setting |
|---|---|
| BT-BR(1Mbps) | - |
| 2402MHz | 08 |
| 2440MHz | 08 |
| 2480MHz | 08 |
| BT-EDR(2Mbps) | - |
| 2402MHz | 08 |
| 2440MHz | 08 |
| 2480MHz | 08 |
| BT-EDR(3Mbps) | - |
| 2402MHz | 08 |
| 2440MHz | 08 |
| 2480MHz | 08 |

## 2.3 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | AC power-line conducted emissions |
| **Condition** | AC power-line conducted measurement for line and neutral |
| **Operating Mode** | CTX |
| 1 | PoE mode |
| 2 | AC mode |
| Mode 2 configuration was tested and found to be the worst case and measured during the test. | |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | 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 |
| **Test Condition** | Conducted measurement at transmit chains |

| The Worst Case Mode for Following Conformance Tests | | | |
|---|---|---|---|
| **Tests Item** | Emissions in Restricted Frequency Bands | | |
| **Test Condition** | 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. | | |
| **Operating Mode < 1GHz** | CTX | | |
| 1 | PoE mode | | |
| 2 | AC mode | | |
| **Operating Mode > 1GHz** | CTX | | |
| **Orthogonal Planes of EUT** | **X Plane** | **Y Plane** | **Z Plane** |
| |  |  |  |
| **Worst Planes of EUT** | V | | |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | Simultaneous Transmission Analysis |
| **Operating Mode** | 1. Radio 1 (2.4G) + Radio 2 (5G) + Radio 3 (2.4G) + Radio 4 (BT) |
| | 2. Radio 1 (2.4G) + Radio 2 (5G) + Radio 3 (5G) + Radio 4 (BT) |
| Refer to Sporton Test Report No.: FA790613 for Co-location RF Exposure Evaluation. | |

## 2.4 Accessories

| Accessories | | |
|---|---|---|
| Power Cable | **Signal Line** | 6 meter, non-shielded cable, w/o ferrite core |
| Ground Wire | **Signal Line** | 6.4 meter, non-shielded cable, w/o ferrite core |

## 2.5 Support Equipment

| Support Equipment – RF Conducted | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| 1 | Notebook | DELL | E5410 | DoC |
| 2 | Adapter for NB | DELL | HA65NM130 | DoC |
| 3 | AC Source | G.W | APS-9102 | - |

| Support Equipment – Radiated Emission | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| 1 | PoE | Microsemi | PD-9001G | - |

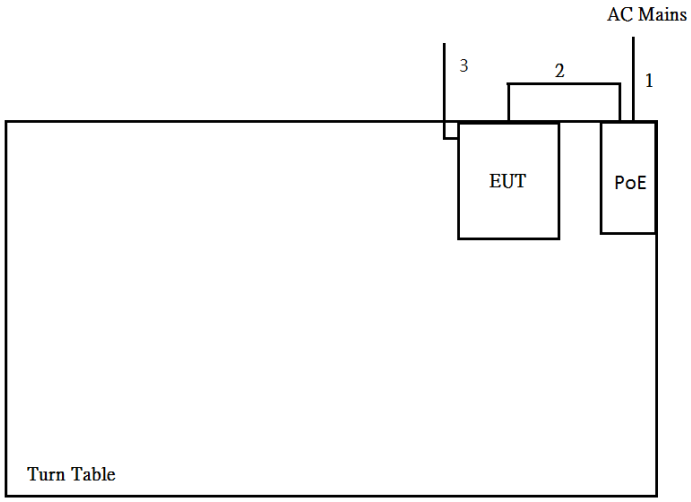
Note: Support equipment No.1 was provided by customer.

| Support Equipment – AC Conduction | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| 1 | PoE | Microsemi | PD-9001G | - |

Note: Support equipment No.1 was provided by customer.

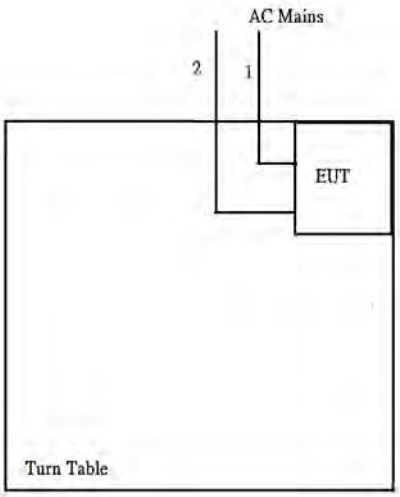
## 2.6 Test Setup Diagram

**Test Setup Diagram – AC Line Conducted Emission Test (PoE mode)**



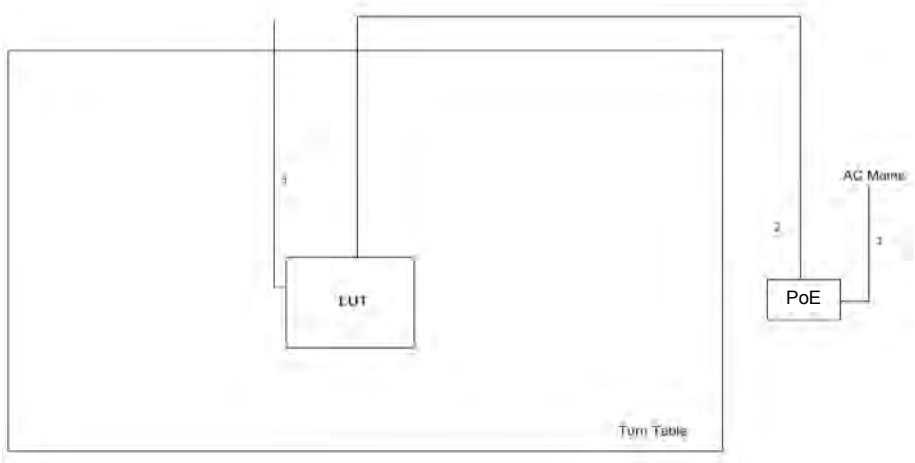

| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | AC power line | No | 1.2m |
| 2 | RJ-45 cable | No | 1m |
| 3 | Ground wire | No | 6.4m |

**Test Setup Diagram – AC Line Conducted Emission Test (AC mode)**



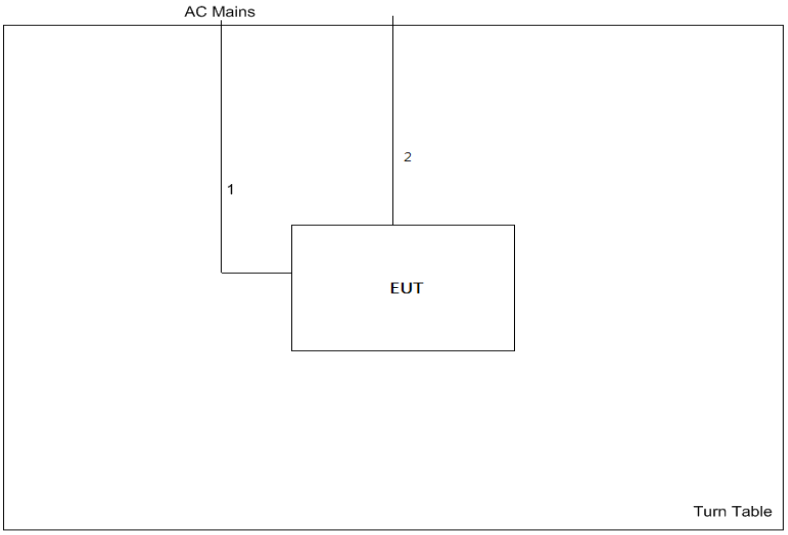

| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | AC power line | No | 6m |
| 2 | Ground wire | No | 6.4m |

## Test Setup Diagram - Radiated Test (PoE mode)




| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | AC power line | No | 1.2m |
| 2 | RJ-45 cable | No | 10m |
| 3 | Ground wire | No | 6.4m |

## Test Setup Diagram - Radiated Test (AC mode)




| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | AC power line | No | 6m |
| 2 | Ground wire | No | 6.4m |

# 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

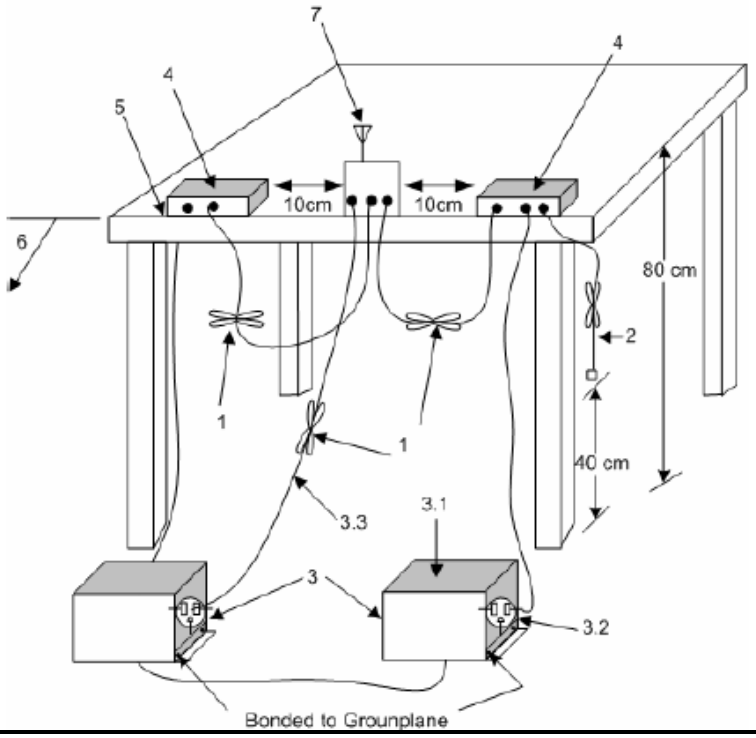
Refer a test equipment and calibration data table in this test report.

### 3.1.3 Test Procedures

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

### 3.1.4 Test Setup

**AC Power-line Conducted Emissions**




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

Refer as Appendix A

## 3.2 20dB Bandwidth and Carrier Frequency Separation

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

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

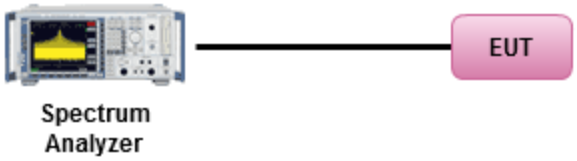
### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

| Test Method |
|---|
| ▪ Refer as ANSI C63.10-2013, clause 6.9.2 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

| 20dB Bandwidth and Carrier Frequency Separation |
|---|
|   |

### 3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

### 3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

# 3.3 Maximum Conducted Output Power

## 3.3.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit | |
|---|---|
| ▪ 902-928 MHz Band: | |
| | ▪ N ≥50; Power 30dBm; EIRP 36dBm |
| | ▪ 50 >N≥ 25; Power 24dBm; EIRP 30dBm |
| ▪ 2400-2483.5 MHz Band: | |
| | ▪ N ≥ 75; Power 30dBm; EIRP 36dBm |
| | ▪ 75 >N ≥ 15; Power 21dBm; EIRP 27dBm |
| ▪ 5725-5850 MHz Band: | |
| | ▪ N ≥ 75; Power 30dBm; EIRP 36dBm |
| **N:**Number of Hopping Frequencies | |

## 3.3.2 Measuring Instruments

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

## 3.3.3 Test Procedures

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

## 3.3.4 Test Setup

| Maximum Conducted Output Power (Peak Power Meter) |
|---|
|  |



## 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

# 3.4 Number of Hopping Frequencies and Hopping Bandedge

## 3.4.1 Number of Hopping Frequencies Limit

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

## 3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

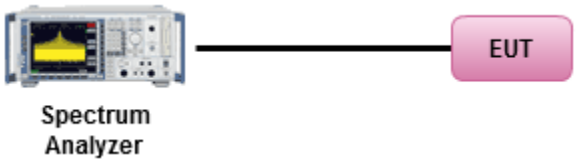
## 3.4.3 Measuring Instruments

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

## 3.4.4 Test Procedures

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

## 3.4.5 Test Setup

| Number of Hopping Frequencies and Hopping Frequencies Bandedge |
|---|
|  |

## 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 |
|---|
| ▪ 902-928 MHz Band: |
| ▪ N ≥50; 0.4s in 20s period |
| ▪ 50 >N≥ 25; 0.4s in 10s period |
| ▪ 2400-2483.5 MHz Band: |
| ▪ N ≥ 75; 0.4s in N x 0.4 period |
| ▪ 75 >N ≥ 15; 0.4s in N x 0.4 period |
| ▪ 5725-5850 MHz Band: |
| ▪ N ≥ 75; 0.4s in 30s period |
| **N:**Number of Hopping Frequencies |

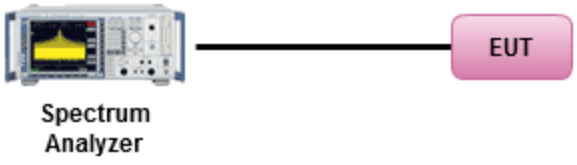
## 3.5.2 Measuring Instruments

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

## 3.5.3 Test Procedures

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

## 3.5.4 Test Setup

| Time of Occupancy (Dwell Time) |
|---|
|  |

## 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. | |

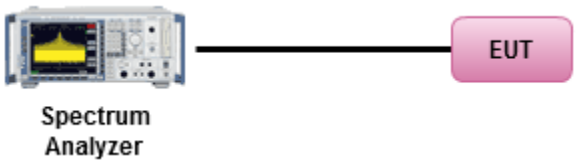
## 3.6.2 Measuring Instruments

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

## 3.6.3 Test Procedures

| Test Method |
|---|
| ▪ Refer as ANSI C63.10-2013, clause 7.8.8 for unwanted emissions into non-restricted bands. |

## 3.6.4 Test Setup

| Emissions in Non-restricted Frequency Bands |
|---|
|   |

## 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 below30 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.

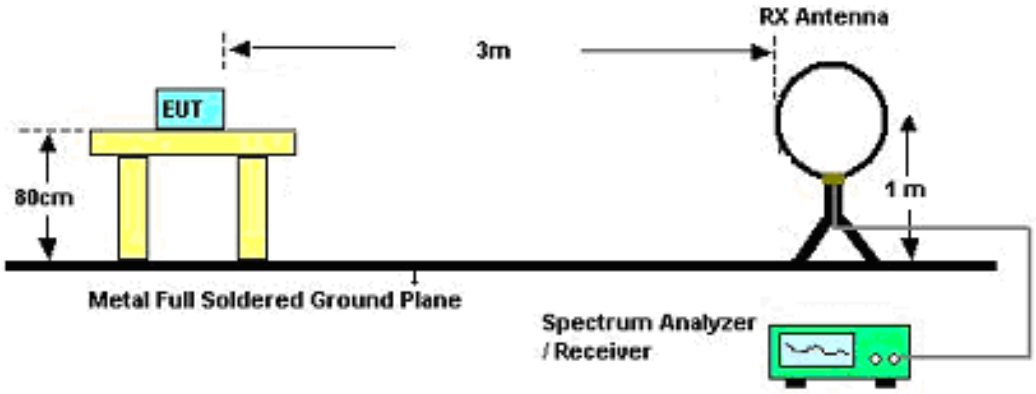
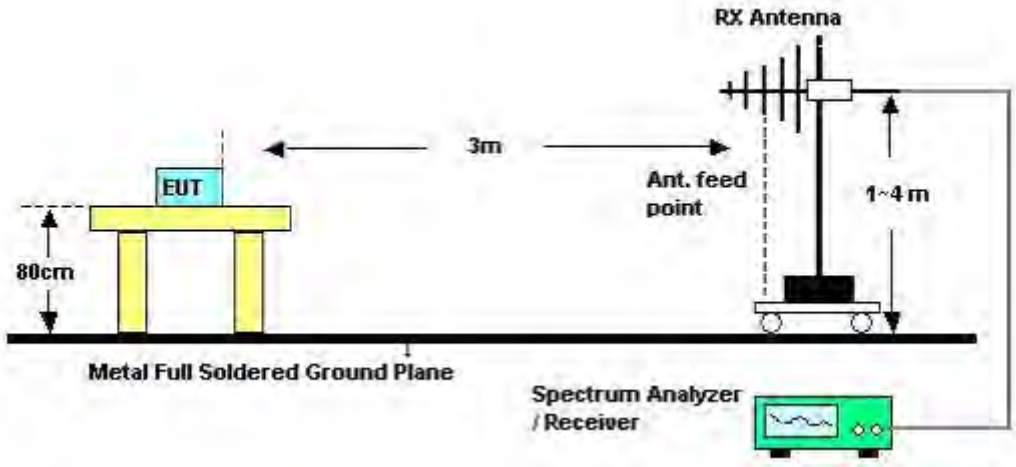
## 3.7.2 Measuring Instruments

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

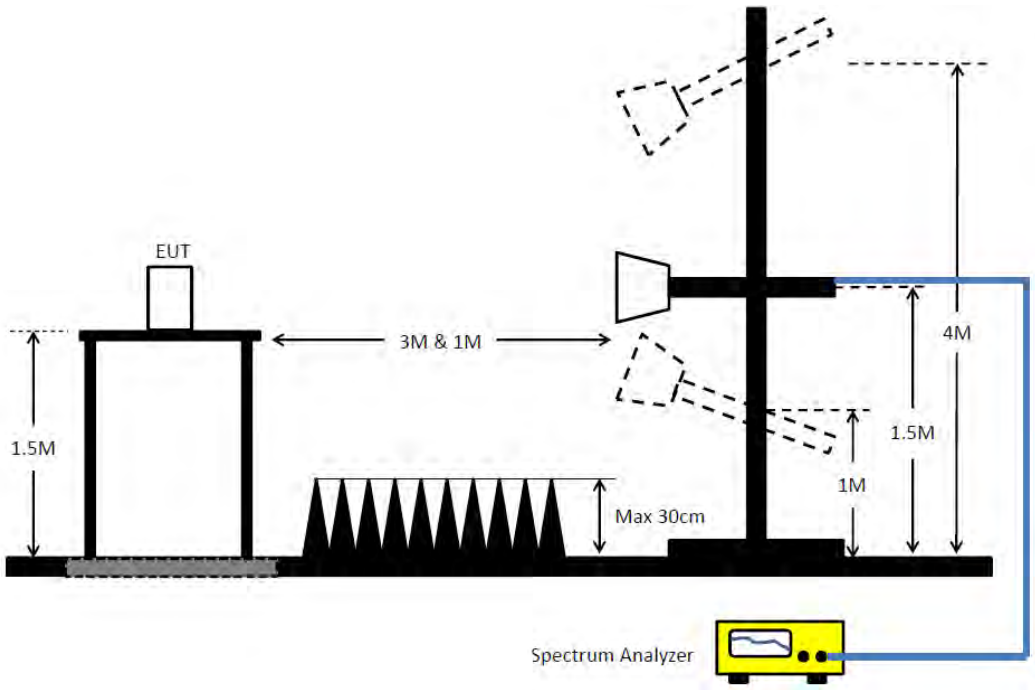
## 3.7.3 Test Procedures

| Test Method | |
|---|---|
| ▪ The average emission levels shall be measured in [hopping duty factor]. | |
| ▪ Refer as ANSI C63.10; clause 6.9.2.2 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. | |
| ▪ For the transmitter unwanted emissions shall be measured using following options below: | |
| | ▪ Refer as ANSI C63.10, clause 4.1.4.2.1 QP value. |
| | ▪ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak. |
| | ▪ Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions. |

### 3.7.4 Test Setup

| Emissions in Restricted Frequency Bands |
|---|
| 9kHz ~30MHz |
|  |
| 30MHz~1GHz |
|  |

**Above 1GHz**




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

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

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

Refer as Appendix G

# 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

| Instrument | Manufacturer | Model No. | Serial No. | Spec. | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|---|
| EMC Receiver | R&S | ESR3 | 102052 | 9KHz ~ 3.6GHz | 29/Apr/2017 | 28/Apr/2018 |
| LISN | R&S | ENV216 | 101295 | 9kHz ~ 30MHz | 15/Nov/2016 | 14/Nov/2017 |
| RF Cable-CON | HUBER+SUHNER | RG213/U | 07611832020001 | 9kHz ~ 30MHz | 24/Oct/2016 | 23/Oct/2017 |
| AC POWER | APC | AFC-11005G | F310050055 | 47Hz~63Hz 5~300V | NCR | NCR |
| Impuls Begrenzer Pulse Limiter | R&S | ESH3-Z2 | 100921 | 10 kHz ~ 30 MHz | 21/Oct/2016 | 20/Oct/2017 |

**NCR : Non-Calibration Require**

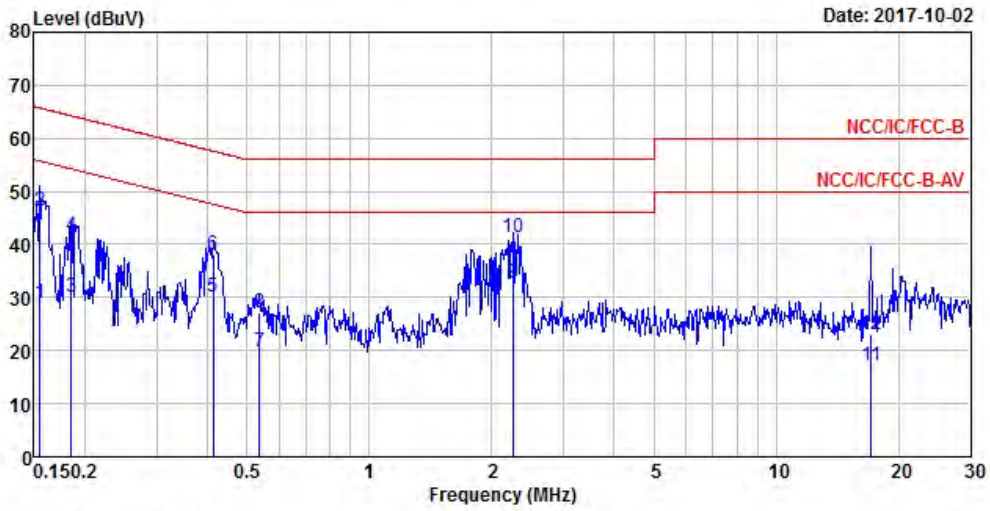
### Instrument for Radiated Test

| Instrument | Manufacturer | Model No. | Serial No. | Spec. | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|---|
| Spectrum Analyzer | R&S | FSP40 | 100593 | 9KHz - 40GHz | 26/Oct/2016 | 25/Oct/2017 |
| 3m Semi Anechoic | SIDT FRANKONIA | SAC-3M | 03CH02-HY | 30MHz-1GHz | 21/Oct/2016 | 20/Oct/2017 |
| 3m Semi Anechoic | SIDT FRANKONIA | SAC-3M | 03CH02-HY | 1GHz ~ 18GHz | 12/Dec/2016 | 11/Dec/2017 |
| Amplifier | Agilent | 8447D | 2944A11149 | 100KHz-1.3GHz | 29/Jun/2017 | 28/Jun/2018 |
| Amplifier | Agilent | 8449B | 3008A02373 | 1GHz-26.5GHz | 20/Sep/2016 | 19/Sep/2017 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | BBHA9120D 01531 | 1GHz-18GHz | 11/May/2017 | 10/May/2018 |
| Horn Antenna | SCHWARZBECK | BBHA9170 | BBHA9170154 | 18GHz-40GHz | 06/Feb/2017 | 05/Feb/2018 |
| Bilog Antenna | SCHAFFNER | CBL6112B | 2723 | 30MHz-1GHz | 01/Oct/2016 | 30/Sep/2017 |
| Amplifier | MITEQ | JS44-18004000-33-8P | 1840917 | 18GHz-40GHz | 06/Feb/2017 | 05/Feb/2018 |
| Loop Antenna | TESEQ | HLA 6120 | 31244 | 9KHz-30MHz | 02/Mar/2017 | 01/Mar/2018 |
| RF Cable-high | SUHNER | SUCOFLEX104 | MY34918/4 | 1GHz ~ 40GHz | 26/Jan/2017 | 25/Jan/2018 |
| RF Cable-R03m | Jye Bao | RG142 | CB017 | 9kHz ~ 1GHz | 26/Jan/2017 | 25/Jan/2018 |
| Receiver | R&S | ESU-26 | 100422/026 | 20Hz ~ 26.5GHz | 21/Sep/2016 | 20/Sep/2017 |

## Instrument for Conducted Test

| Instrument | Manufacturer | Model No. | Serial No. | Spec. | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|---|
| Spectrum Analyzer | R&S | FSV 40 | 101013 | 9kHz~40GHz | 30/Dec/2016 | 29/Dec/2017 |
| Power Sensor | Anritsu | MA2411B | 0917017 | 300MHz ~ 40GHz | 10/Feb/2017 | 09/Feb/2018 |
| Power Meter | Anritsu | ML2495A | 0949003 | 300MHz ~ 40GHz | 10/Feb/2017 | 09/Feb/2018 |
| Signal Generator | R&S | SMR40 | 100116 | 10MHz ~ 40GHz | 27/Jul/2017 | 26/Jul/2018 |
| RF Cable-0.2m | HUBER+SUHNER | SUCOFLEX_104 | MY10710/4 | 30MHz~26.5GHz | 02/Oct/2016 | 01/Oct/2017 |
| RF Cable-0.2m | HUBER+SUHNER | SUCOFLEX_104 | MY10709/4 | 30MHz~26.5GHz | 02/Oct/2016 | 01/Oct/2017 |
| RF Cable-0.5m | HUBER+SUHNER | SUCOFLEX_104 | MY10713/4 | 30MHz~26.5GHz | 02/Oct/2016 | 01/Oct/2017 |

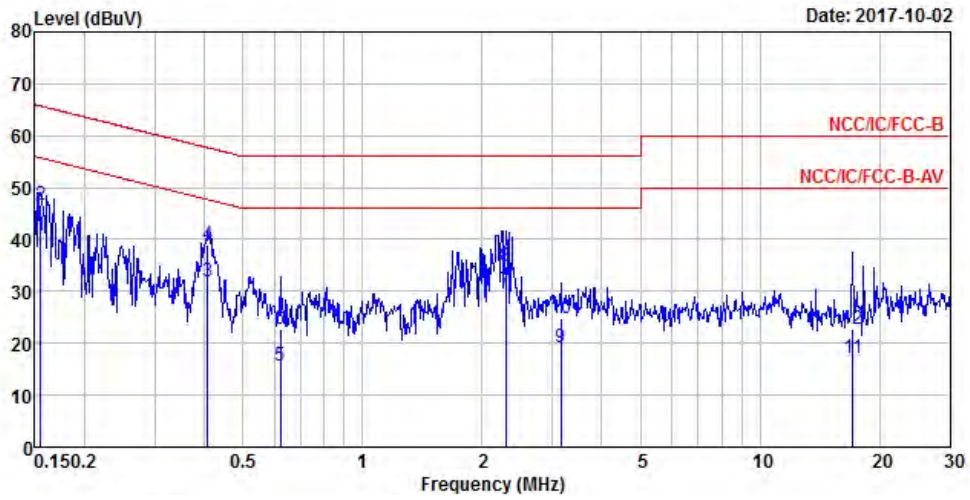
| AC Power-line Conducted Emissions Result | | | |
|---|---|---|---|
| **Operating Mode** | 1 | **Power Phase** | Neutral |
| **Operating Function** | PoE mode | | |




| | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 | 0.15485 | 29.02 | -26.72 | 55.74 | 19.18 | 9.61 | 0.23 | Average |
| 2 | 0.15485 | 46.25 | -19.49 | 65.74 | 36.41 | 9.61 | 0.23 | QP |
| 3 | 0.18541 | 30.06 | -24.18 | 54.24 | 20.13 | 9.65 | 0.28 | Average |
| 4 | 0.18541 | 41.72 | -22.52 | 64.24 | 31.79 | 9.65 | 0.28 | QP |
| 5 | 0.41266 | 30.08 | -17.51 | 47.59 | 20.35 | 9.63 | 0.10 | Average |
| 6 | 0.41266 | 37.98 | -19.61 | 57.59 | 28.25 | 9.63 | 0.10 | QP |
| 7 | 0.53782 | 19.75 | -26.25 | 46.00 | 10.03 | 9.62 | 0.10 | Average |
| 8 | 0.53782 | 27.20 | -28.80 | 56.00 | 17.48 | 9.62 | 0.10 | QP |
| 9 MAX | 2.26057 | 32.91 | -13.09 | 46.00 | 22.98 | 9.66 | 0.27 | Average |
| 10 | 2.26057 | 41.33 | -14.67 | 56.00 | 31.40 | 9.66 | 0.27 | QP |
| 11 | 17.10851 | 17.21 | -32.79 | 50.00 | 7.15 | 9.86 | 0.20 | Average |
| 12 | 17.10851 | 22.91 | -37.09 | 60.00 | 12.85 | 9.86 | 0.20 | QP |

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

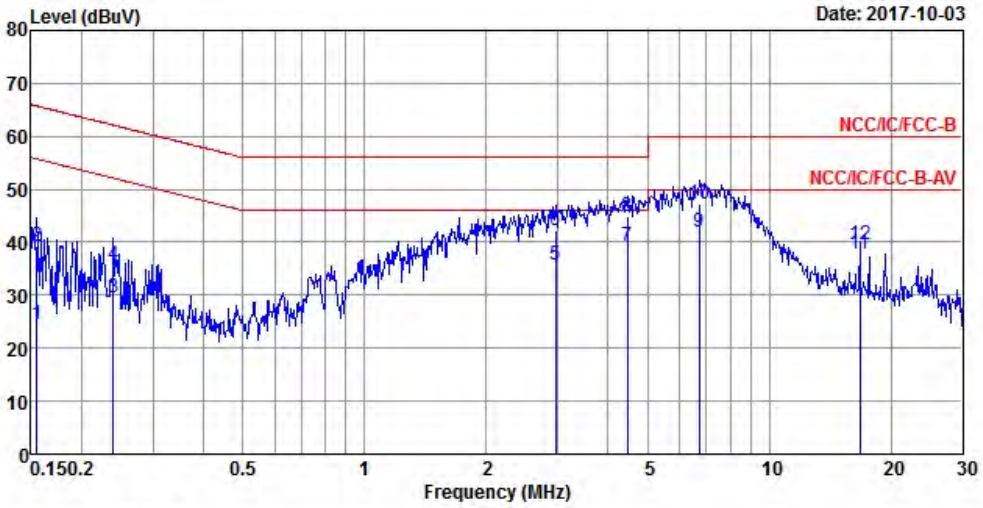
| AC Power-line Conducted Emissions Result | | | |
|---|---|---|---|
| **Operating Mode** | 1 | **Power Phase** | Line |
| **Operating Function** | PoE mode | | |




| | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 MAX | 0.15485 | 40.83 | -14.91 | 55.74 | 30.94 | 9.66 | 0.23 | Average |
| 2 | 0.15485 | 46.74 | -19.00 | 65.74 | 36.85 | 9.66 | 0.23 | QP |
| 3 | 0.40831 | 31.78 | -15.90 | 47.68 | 22.00 | 9.68 | 0.10 | Average |
| 4 | 0.40831 | 38.97 | -18.71 | 57.68 | 29.19 | 9.68 | 0.10 | QP |
| 5 | 0.62054 | 15.72 | -30.28 | 46.00 | 5.96 | 9.66 | 0.10 | Average |
| 6 | 0.62054 | 22.86 | -33.14 | 56.00 | 13.10 | 9.66 | 0.10 | QP |
| 7 | 2.29679 | 30.09 | -15.91 | 46.00 | 20.04 | 9.79 | 0.26 | Average |
| 8 | 2.29679 | 34.80 | -21.20 | 56.00 | 24.75 | 9.79 | 0.26 | QP |
| 9 | 3.15634 | 19.16 | -26.84 | 46.00 | 9.21 | 9.78 | 0.17 | Average |
| 10 | 3.15634 | 24.73 | -31.27 | 56.00 | 14.78 | 9.78 | 0.17 | QP |
| 11 | 17.10851 | 17.26 | -32.74 | 50.00 | 7.20 | 9.86 | 0.20 | Average |
| 12 | 17.10851 | 22.71 | -37.29 | 60.00 | 12.65 | 9.86 | 0.20 | QP |

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

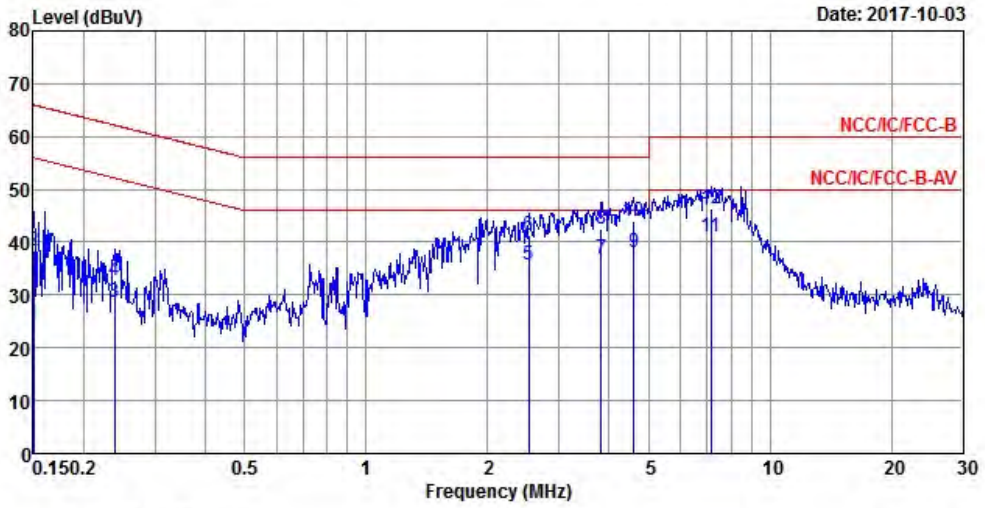
| AC Power-line Conducted Emissions Result | | | |
|---|---|---|---|
| **Operating Mode** | 2 | **Power Phase** | Neutral |
| **Operating Function** | AC mode | | |




| | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 | 0.15485 | 24.60 | -31.14 | 55.74 | 14.76 | 9.61 | 0.23 | Average |
| 2 | 0.15485 | 39.30 | -26.44 | 65.74 | 29.46 | 9.61 | 0.23 | QP |
| 3 | 0.23910 | 29.50 | -22.63 | 52.13 | 19.59 | 9.66 | 0.25 | Average |
| 4 | 0.23910 | 35.77 | -26.36 | 62.13 | 25.86 | 9.66 | 0.25 | QP |
| 5 | 2.96191 | 35.70 | -10.30 | 46.00 | 25.83 | 9.68 | 0.19 | Average |
| 6 | 2.96191 | 42.27 | -13.73 | 56.00 | 32.40 | 9.68 | 0.19 | QP |
| 7 MAX | 4.45400 | 39.23 | -6.77 | 46.00 | 29.41 | 9.71 | 0.11 | Average |
| 8 | 4.45400 | 44.93 | -11.07 | 56.00 | 35.11 | 9.71 | 0.11 | QP |
| 9 | 6.69776 | 41.85 | -8.15 | 50.00 | 31.96 | 9.73 | 0.16 | Average |
| 10 | 6.69776 | 47.17 | -12.83 | 60.00 | 37.28 | 9.73 | 0.16 | QP |
| 11 | 16.73473 | 37.83 | -12.17 | 50.00 | 27.78 | 9.85 | 0.20 | Average |
| 12 | 16.73473 | 39.66 | -20.34 | 60.00 | 29.61 | 9.85 | 0.20 | QP |

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

| AC Power-line Conducted Emissions Result | | | |
|---|---|---|---|
| **Operating Mode** | 2 | **Power Phase** | Line |
| **Operating Function** | AC mode | | |




| | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 | 0.15000 | 24.49 | -31.51 | 56.00 | 14.61 | 9.66 | 0.22 | Average |
| 2 | 0.15000 | 38.34 | -27.66 | 66.00 | 28.46 | 9.66 | 0.22 | QP |
| 3 | 0.23784 | 28.50 | -23.67 | 52.17 | 18.59 | 9.66 | 0.25 | Average |
| 4 | 0.23784 | 32.75 | -29.42 | 62.17 | 22.84 | 9.66 | 0.25 | QP |
| 5 | 2.52662 | 35.62 | -10.38 | 46.00 | 25.61 | 9.78 | 0.23 | Average |
| 6 | 2.52662 | 41.48 | -14.52 | 56.00 | 31.47 | 9.78 | 0.23 | QP |
| 7 | 3.81962 | 36.77 | -9.23 | 46.00 | 26.89 | 9.77 | 0.11 | Average |
| 8 | 3.81962 | 42.56 | -13.44 | 56.00 | 32.68 | 9.77 | 0.11 | QP |
| 9 MAX | 4.59787 | 37.99 | -8.01 | 46.00 | 28.10 | 9.77 | 0.12 | Average |
| 10 | 4.59787 | 43.89 | -12.11 | 56.00 | 34.00 | 9.77 | 0.12 | QP |
| 11 | 7.13743 | 41.13 | -8.87 | 50.00 | 31.22 | 9.75 | 0.16 | Average |
| 12 | 7.13743 | 46.34 | -13.66 | 60.00 | 36.43 | 9.75 | 0.16 | QP |

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

## Summary

| Mode | Max-N dB (Hz) | Max-OBW (Hz) | ITU-Code | Min-N dB (Hz) | Min-OBW (Hz) |
|---|---|---|---|---|---|
| 2.4-2.4835GHz | - | - | - | - | - |
| BT-BR(1Mbps) | 920k | 875.812k | 876KF1D | 920k | 869.565k |
| BT-EDR(2Mbps) | 1.315M | 1.197M | 1M20G1D | 1.309M | 1.193M |
| BT-EDR(3Mbps) | 1.276M | 1.212M | 1M21G1D | 1.27M | 1.197M |

**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;

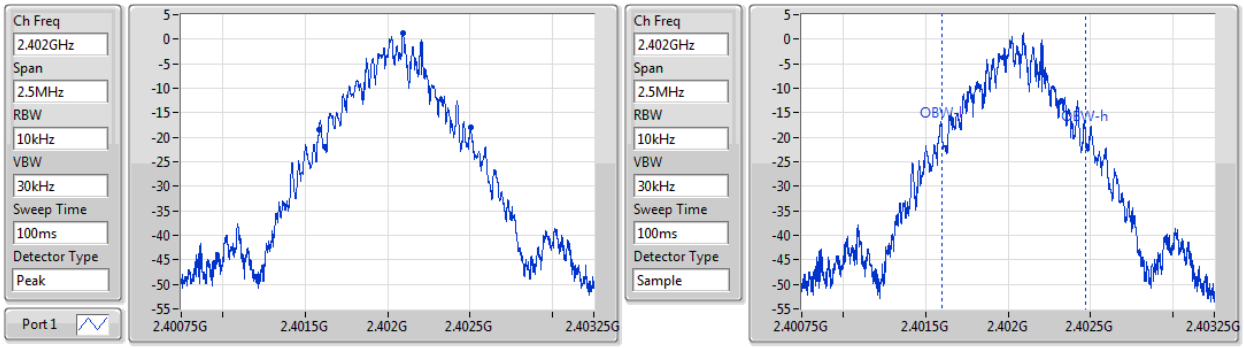
## Result

| Mode | Result | Limit (Hz) | Port 1-N dB (Hz) | Port 1-OBW (Hz) |
|---|---|---|---|---|
| BT-BR(1Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | Inf | 920k | 869.565k |
| 2440MHz_TnomVnom | Pass | Inf | 920k | 875.812k |
| 2480MHz_TnomVnom | Pass | Inf | 920k | 874.563k |
| BT-EDR(2Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | Inf | 1.309M | 1.197M |
| 2440MHz_TnomVnom | Pass | Inf | 1.314M | 1.193M |
| 2480MHz_TnomVnom | Pass | Inf | 1.315M | 1.197M |
| BT-EDR(3Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | Inf | 1.276M | 1.197M |
| 2440MHz_TnomVnom | Pass | Inf | 1.27M | 1.198M |
| 2480MHz_TnomVnom | Pass | Inf | 1.27M | 1.212M |

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

**BT-BR(1Mbps)** **EBW**

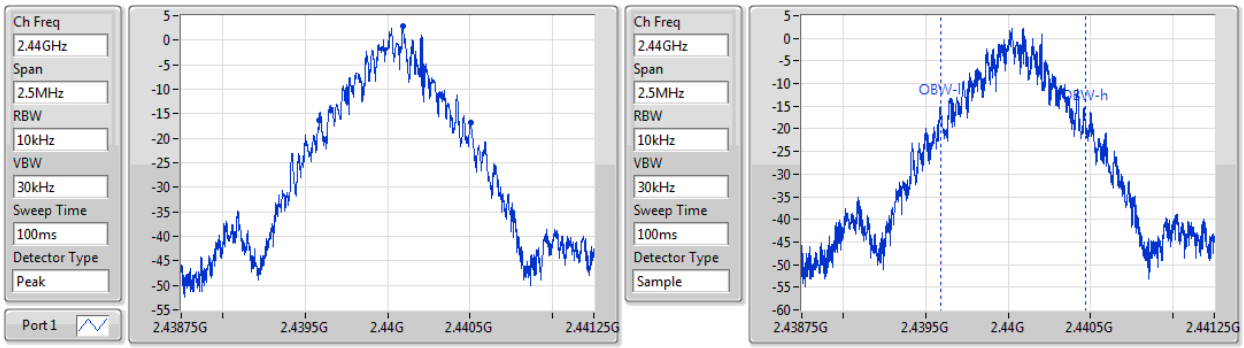
**2402MHz**




| 20dB(Hz) | Fl-20dB(Hz) | Fh-20dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 920k | 2.401586G | 2.402506G | 869.565k | 2.401601G | 2.402471G | Inf | 1 |

**BT-BR(1Mbps)** **EBW**

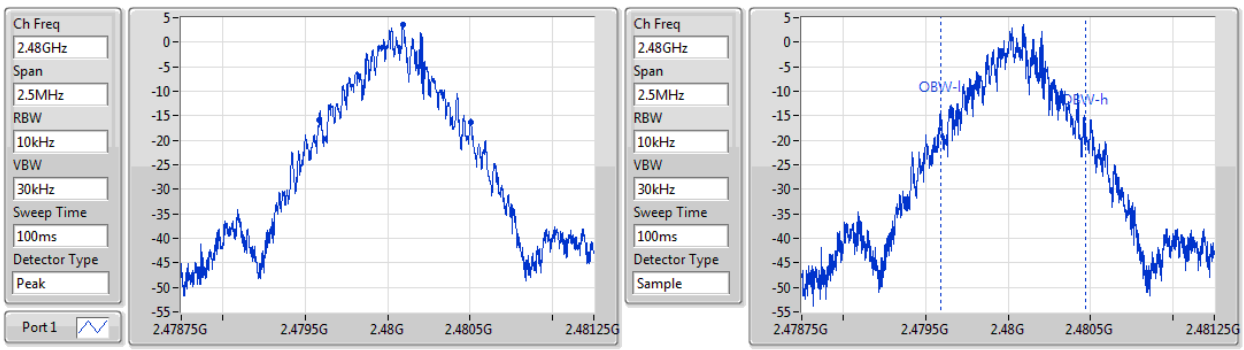
**2440MHz**




| 20dB(Hz) | Fl-20dB(Hz) | Fh-20dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 920k | 2.439586G | 2.440506G | 875.812k | 2.439591G | 2.440467G | Inf | 1 |

**BT-BR(1Mbps)** **EBW**

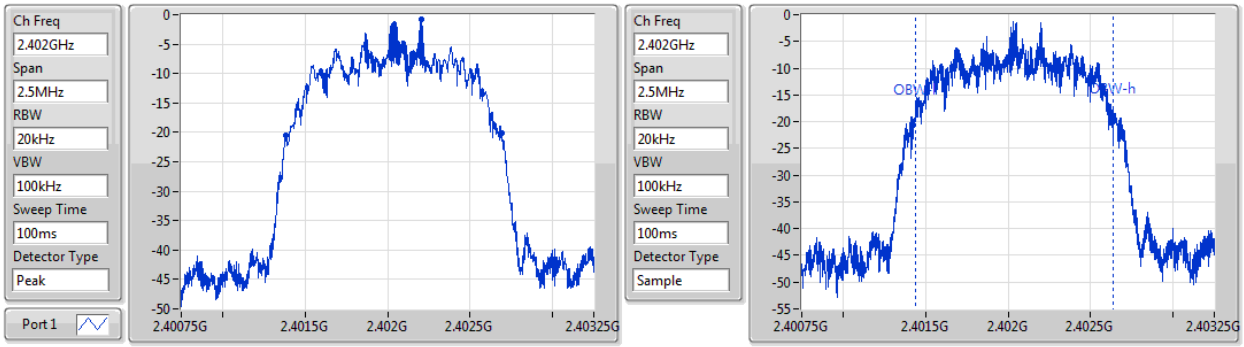
**2480MHz**




| 20dB(Hz) | Fl-20dB(Hz) | Fh-20dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 920k | 2.479586G | 2.480506G | 874.563k | 2.479593G | 2.480467G | Inf | 1 |

**BT-EDR(2Mbps)** **EBW**

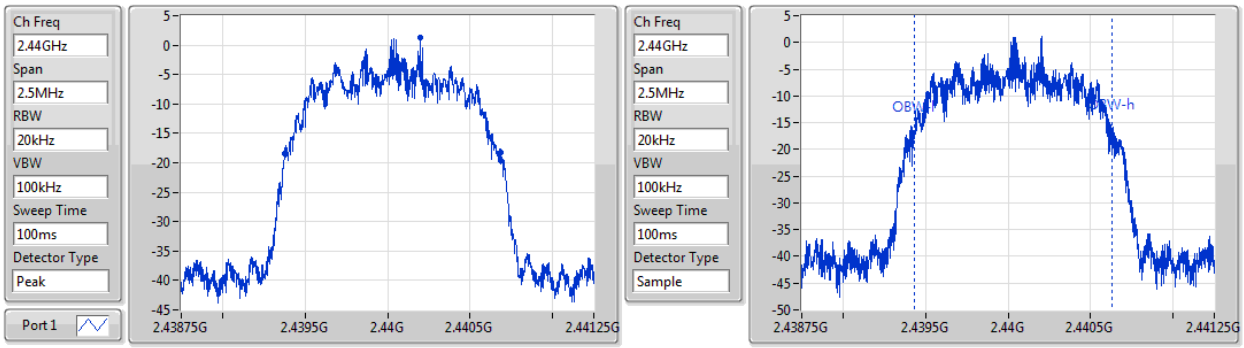
**2402MHz**




| 20dB(Hz) | Fl-20dB(Hz) | Fh-20dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 1.309M | 2.401383G | 2.402691G | 1.197M | 2.401443G | 2.40264G | Inf | 1 |

**BT-EDR(2Mbps)** **EBW**

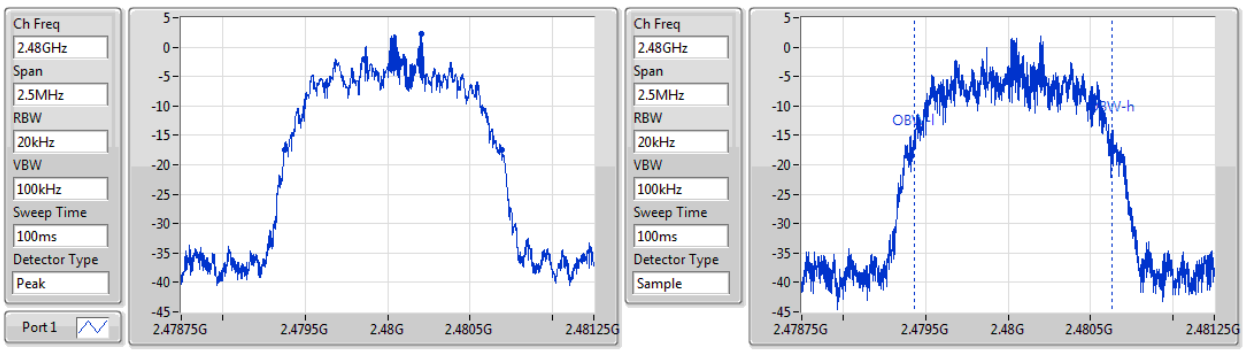
**2440MHz**




| 20dB(Hz) | Fl-20dB(Hz) | Fh-20dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 1.314M | 2.439375G | 2.440689G | 1.193M | 2.439434G | 2.440627G | Inf | 1 |

**BT-EDR(2Mbps)** **EBW**

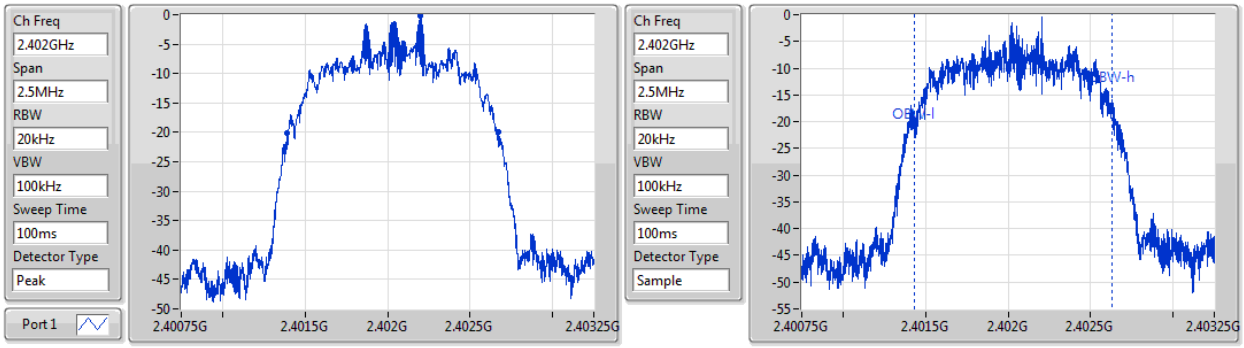
**2480MHz**




| 20dB(Hz) | Fl-20dB(Hz) | Fh-20dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 1.315M | 2.479375G | 2.48069G | 1.197M | 2.479433G | 2.48063G | Inf | 1 |

**BT-EDR(3Mbps)** **EBW**

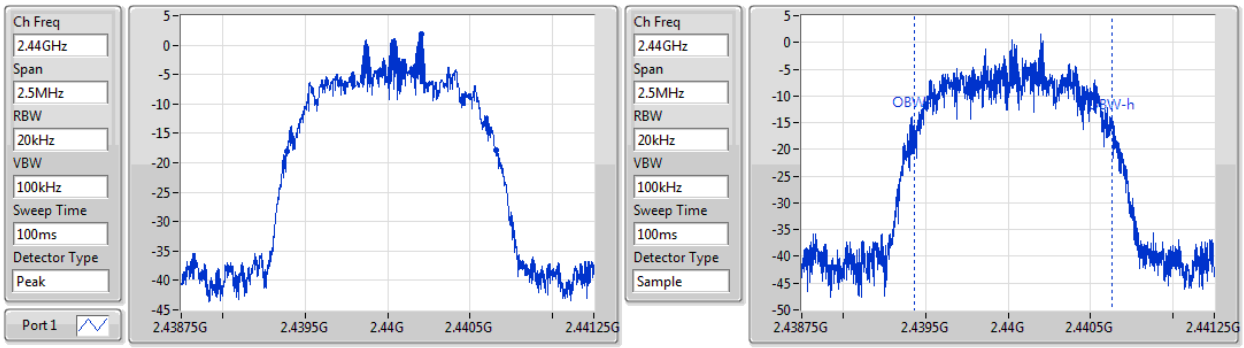
**2402MHz**




| 20dB(Hz) | Fl-20dB(Hz) | Fh-20dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 1.276M | 2.401393G | 2.402669G | 1.197M | 2.401435G | 2.402632G | Inf | 1 |

**BT-EDR(3Mbps)** **EBW**

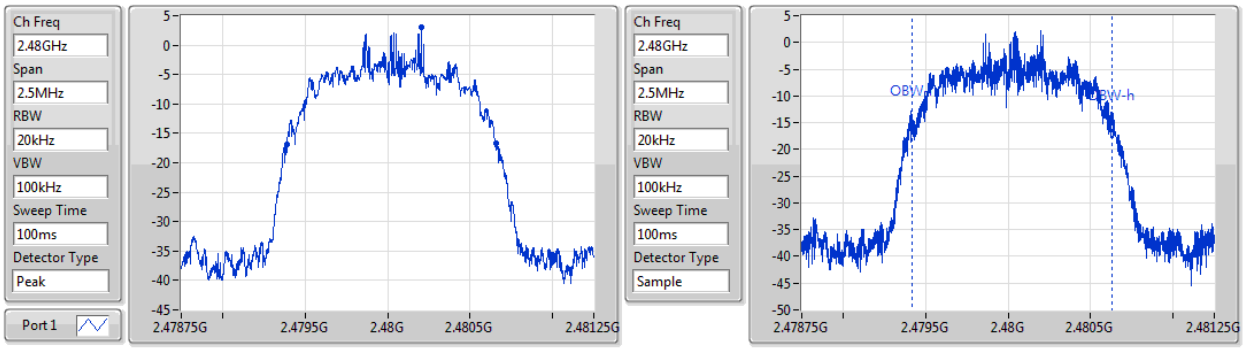
**2440MHz**




| 20dB(Hz) | Fl-20dB(Hz) | Fh-20dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 1.27M | 2.439389G | 2.440659G | 1.198M | 2.439432G | 2.44063G | Inf | 1 |

**BT-EDR(3Mbps)** **EBW**

**2480MHz**




| 20dB(Hz) | Fl-20dB(Hz) | Fh-20dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 1.27M | 2.479388G | 2.480658G | 1.212M | 2.479419G | 2.480631G | Inf | 1 |

**Summary**

| Mode | Max-Space (Hz) | Min-Space (Hz) |
|---|---|---|
| 2.4-2.4835GHz | - | - |
| BT-BR(1Mbps) | 1.002M | 999k |
| BT-EDR(2Mbps) | 1.002M | 997.5k |
| BT-EDR(3Mbps) | 1.0035M | 1.0005M |

**Result**

| Mode | Result | Fl (Hz) | Fh (Hz) | Ch.Space (Hz) | Limit (Hz) |
|---|---|---|---|---|---|
| BT-BR(1Mbps) | - | - | - | - | - |
| 2402MHz | Pass | 2.402202G | 2.403204G | 1.002M | 612.72k |
| 2440MHz | Pass | 2.440202G | 2.441201G | 999k | 612.72k |
| 2480MHz | Pass | 2.479205G | 2.480202G | 997.5k | 612.72k |
| BT-EDR(2Mbps) | - | - | - | - | - |
| 2402MHz | Pass | 2.40204G | 2.403037G | 997.5k | 871.794k |
| 2440MHz | Pass | 2.440038G | 2.44104G | 1.002M | 875.124k |
| 2480MHz | Pass | 2.479038G | 2.480037G | 999k | 875.79k |
| BT-EDR(3Mbps) | - | - | - | - | - |
| 2402MHz | Pass | 2.402199G | 2.403199G | 1.0005M | 848.484k |
| 2440MHz | Pass | 2.440197G | 2.441201G | 1.0035M | 845.82k |
| 2480MHz | Pass | 2.479199G | 2.480199G | 1.0005M | 845.82k |

**BT-BR(1Mbps)** **Channel Separation**

**2.402G/2.403GHz**


| Fl(Hz) | Fh(Hz) | Ch.Space(Hz) | Limit(Hz) |
|---|---|---|---|
| 2.402202G | 2.403204G | 1.002M | 612.72k |

**BT-BR(1Mbps)** **Channel Separation**

**2.44G/2.441GHz**


| Fl(Hz) | Fh(Hz) | Ch.Space(Hz) | Limit(Hz) |
|---|---|---|---|
| 2.440202G | 2.441201G | 999k | 612.72k |

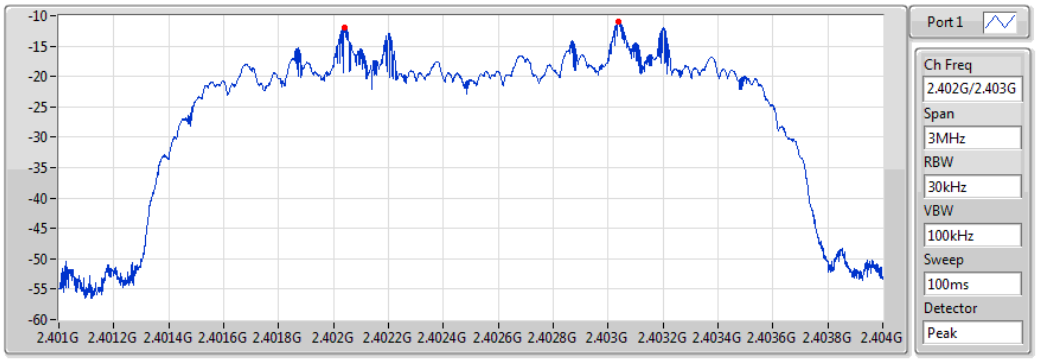
**BT-BR(1Mbps)** **Channel Separation**

**2.48G/2.479GHz**


| Fl(Hz) | Fh(Hz) | Ch.Space(Hz) | Limit(Hz) |
|---|---|---|---|
| 2.479205G | 2.480202G | 997.5k | 612.72k |

**BT-EDR(2Mbps)** **Channel Separation**

**2.402G/2.403GHz**




| Fl(Hz) | Fh(Hz) | Ch.Space(Hz) | Limit(Hz) |
|---|---|---|---|
| 2.40204G | 2.403037G | 997.5k | 871.794k |

**BT-EDR(2Mbps)** **Channel Separation**

**2.44G/2.441GHz**


| Fl(Hz) | Fh(Hz) | Ch.Space(Hz) | Limit(Hz) |
|---|---|---|---|
| 2.440038G | 2.44104G | 1.002M | 875.124k |

**BT-EDR(2Mbps)** **Channel Separation**

**2.48G/2.479GHz**


| Fl(Hz) | Fh(Hz) | Ch.Space(Hz) | Limit(Hz) |
|---|---|---|---|
| 2.479038G | 2.480037G | 999k | 875.79k |

**BT-EDR(3Mbps)** **Channel Separation**

**2.402G/2.403GHz**


| Fl(Hz) | Fh(Hz) | Ch.Space(Hz) | Limit(Hz) |
|---|---|---|---|
| 2.402199G | 2.403199G | 1.0005M | 848.484k |

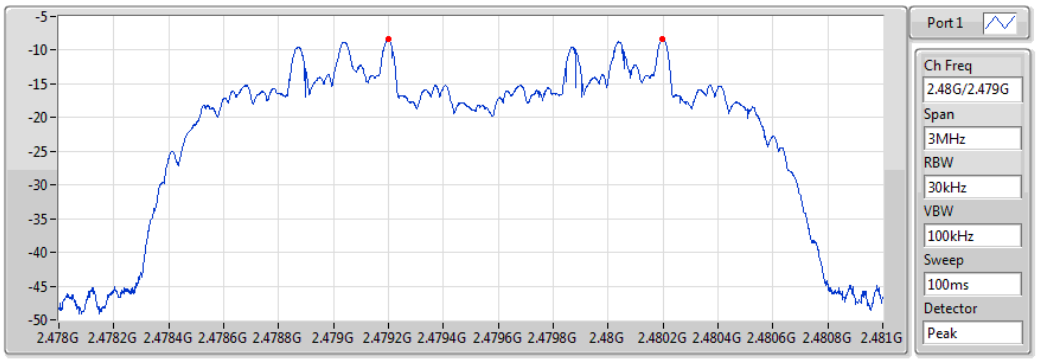
**BT-EDR(3Mbps)** **Channel Separation**

**2.44G/2.441GHz**


| Fl(Hz) | Fh(Hz) | Ch.Space(Hz) | Limit(Hz) |
|---|---|---|---|
| 2.440197G | 2.441201G | 1.0035M | 845.82k |

**BT-EDR(3Mbps)** **Channel Separation**

**2.48G/2.479GHz**




| Fl(Hz) | Fh(Hz) | Ch.Space(Hz) | Limit(Hz) |
|---|---|---|---|
| 2.479199G | 2.480199G | 1.0005M | 845.82k |

**Summary**

| Mode | Power (dBm) | Power (W) |
|---|---|---|
| 2.4-2.4835GHz | - | - |
| BT-BR(1Mbps) | 8.95 | 0.00785 |
| BT-EDR(2Mbps) | 7.65 | 0.00582 |
| BT-EDR(3Mbps) | 7.98 | 0.00628 |

**Result**

| Mode | Result | Gain (dBi) | Power (dBm) | Power Limit (dBm) |
|---|---|---|---|---|
| BT-BR(1Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | 8.60 | 6.63 | 18.40 |
| 2440MHz_TnomVnom | Pass | 8.60 | 8.24 | 18.40 |
| 2480MHz_TnomVnom | Pass | 8.60 | 8.95 | 18.40 |
| BT-EDR(2Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | 8.60 | 4.61 | 18.40 |
| 2440MHz_TnomVnom | Pass | 8.60 | 6.63 | 18.40 |
| 2480MHz_TnomVnom | Pass | 8.60 | 7.65 | 18.40 |
| BT-EDR(3Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | 8.60 | 5.10 | 18.40 |
| 2440MHz_TnomVnom | Pass | 8.60 | 7.03 | 18.40 |
| 2480MHz_TnomVnom | Pass | 8.60 | 7.98 | 18.40 |

**Summary**

| Mode | Power | Power |
|---|---|---|
| | (dBm) | (W) |
| 2.4-2.4835GHz | - | - |
| BT-BR(1Mbps) | 8.28 | 0.00673 |
| BT-EDR(2Mbps) | 5.46 | 0.00352 |
| BT-EDR(3Mbps) | 5.48 | 0.00353 |

**Result**

| Mode | Result | Gain (dBi) | Power (dBm) | Power Limit (dBm) |
|---|---|---|---|---|
| BT-BR(1Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | 8.60 | 6.28 | 18.40 |
| 2440MHz_TnomVnom | Pass | 8.60 | 7.89 | 18.40 |
| 2480MHz_TnomVnom | Pass | 8.60 | 8.28 | 18.40 |
| BT-EDR(2Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | 8.60 | 2.16 | 18.40 |
| 2440MHz_TnomVnom | Pass | 8.60 | 4.30 | 18.40 |
| 2480MHz_TnomVnom | Pass | 8.60 | 5.46 | 18.40 |
| BT-EDR(3Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | 8.60 | 2.04 | 18.40 |
| 2440MHz_TnomVnom | Pass | 8.60 | 4.25 | 18.40 |
| 2480MHz_TnomVnom | Pass | 8.60 | 5.48 | 18.40 |

**Summary**

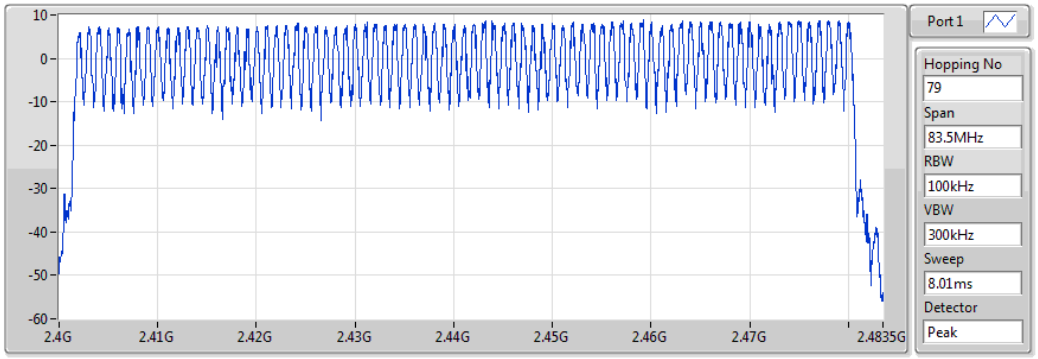
| Mode | Max-Hop No |
|---|---|
| 2.4-2.4835GHz | - |
| BT-BR(1Mbps) | 79 |
| BT-EDR(2Mbps) | 79 |
| BT-EDR(3Mbps) | 79 |

**Result**

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

**BT-BR(1Mbps)** **Hopping Ch**

**2440MHz**

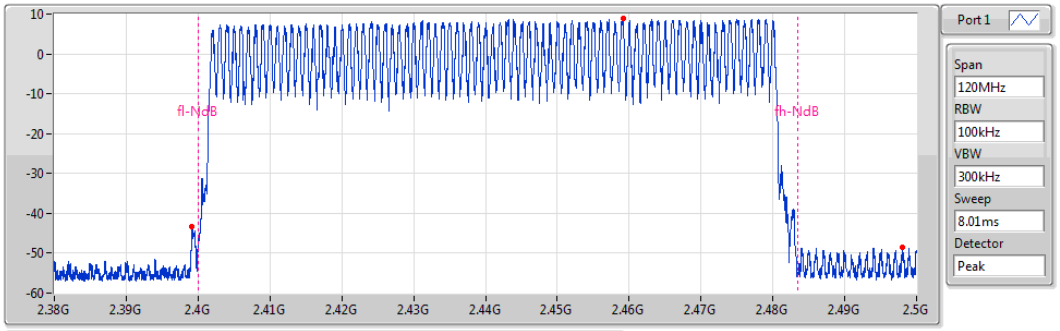



| Hopping No | Limit |
|---|---|
| 79 | 15 |

**BT-BR(1Mbps)**

**2440MHz**

**Hopping Ch Bandedge (Non-restricted Band)**

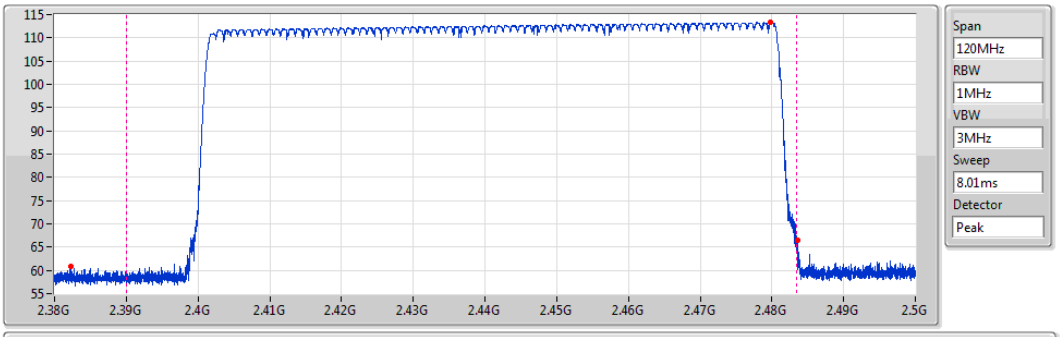



| Limit(dBm) | Ref(Hz) | Ref(dBm) | BE-l(Hz) | BE-l(dBm) | BE-h(Hz) | BE-h(dBm) |
|---|---|---|---|---|---|---|
| -11.16 | 2.4592G | 8.84 | 2.399155G | -43.19 | 2.498035G | -48.57 |

**BT-BR(1Mbps)**

**2440MHz**

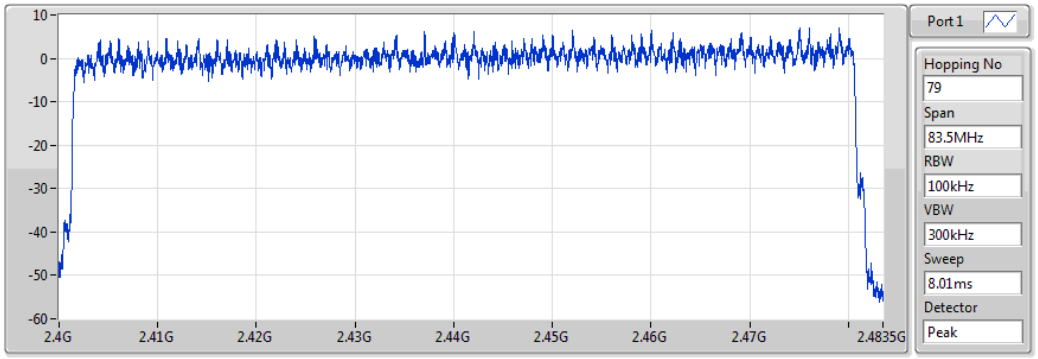
**Hopping Ch Bandedge (Restricted Band)**




| 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.47987G | 113.27 | 2.382235G | 60.87 | 30.12 | 2.483545G | 66.58 | 35.83 | 74 | 54 | 2.901 | -30.75 |

**BT-EDR(2Mbps)** **Hopping Ch**

**2440MHz**

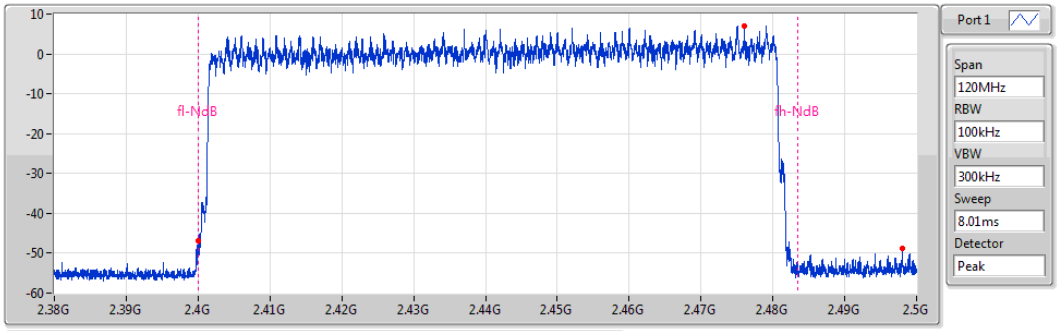



| Hopping No | Limit |
|---|---|
| 79 | 15 |

**BT-EDR(2Mbps)**

**2440MHz**

**Hopping Ch Bandedge (Non-restricted Band)**

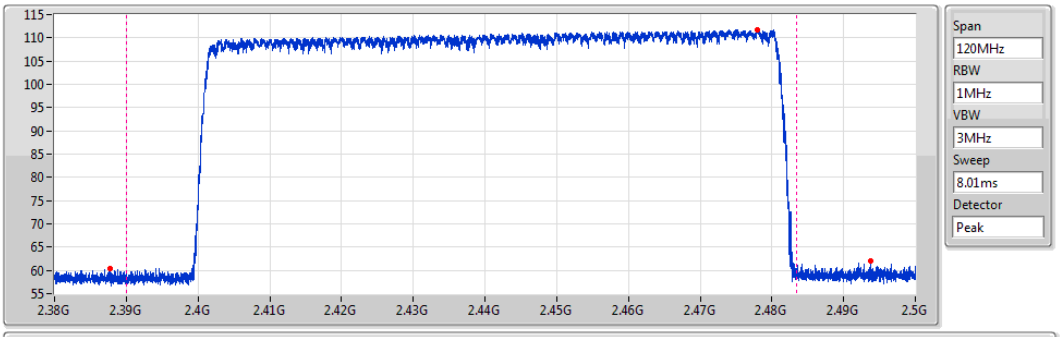



| Limit(dBm) | Ref(Hz) | Ref(dBm) | BE-l(Hz) | BE-l(dBm) | BE-h(Hz) | BE-h(dBm) |
|---|---|---|---|---|---|---|
| -12.9 | 2.476045G | 7.1 | 2.39998G | -47 | 2.49802G | -48.74 |

**BT-EDR(2Mbps)**

**2440MHz**

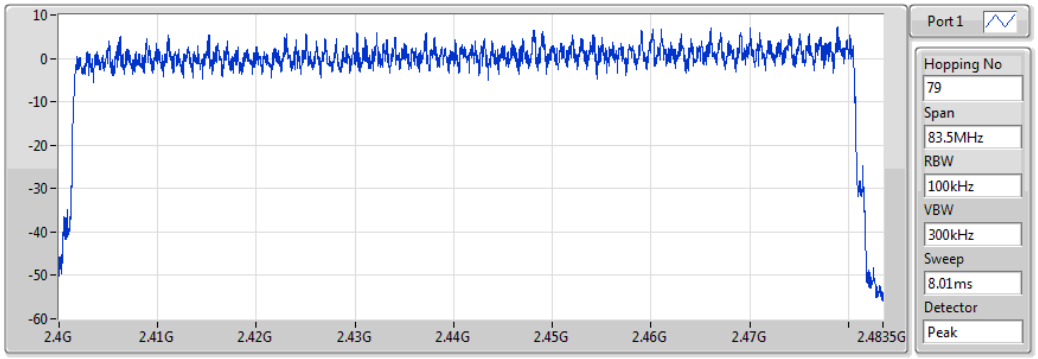
**Hopping Ch Bandedge (Restricted Band)**




| 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.47798G | 111.7 | 2.3878G | 60.33 | 29.6 | 2.49382G | 62.09 | 31.36 | 74 | 54 | 2.909 | -30.73 |

**BT-EDR(3Mbps)** **Hopping Ch**

**2440MHz**

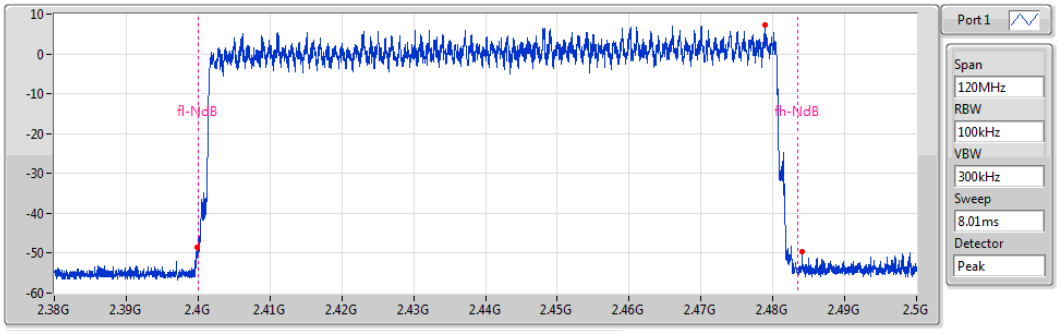



| Hopping No | Limit |
|---|---|
| 79 | 15 |

**BT-EDR(3Mbps)**

**2440MHz**

**Hopping Ch Bandedge (Non-restricted Band)**

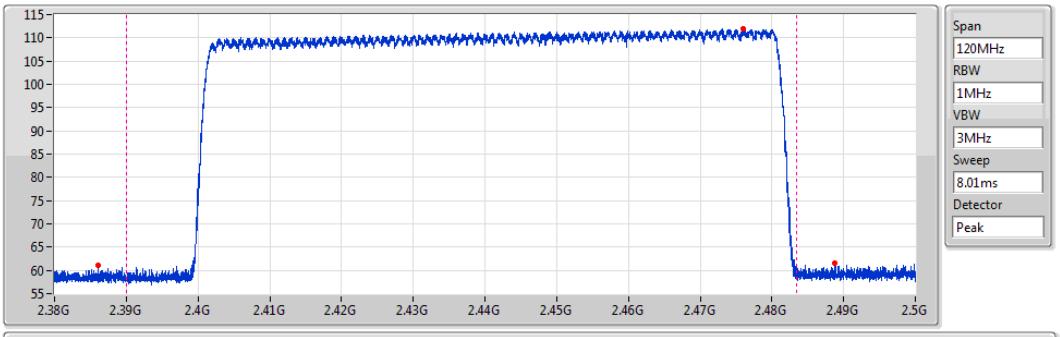



| Limit(dBm) | Ref(Hz) | Ref(dBm) | BE-l(Hz) | BE-l(dBm) | BE-h(Hz) | BE-h(dBm) |
|---|---|---|---|---|---|---|
| -12.78 | 2.47888G | 7.22 | 2.39986G | -48.56 | 2.48407G | -49.58 |

**BT-EDR(3Mbps)**

**2440MHz**

**Hopping Ch Bandedge (Restricted Band)**




| 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.476045G | 111.88 | 2.38612G | 61.08 | 30.37 | 2.48881G | 61.55 | 30.84 | 74 | 54 | 2.913 | -30.71 |

**Summary**

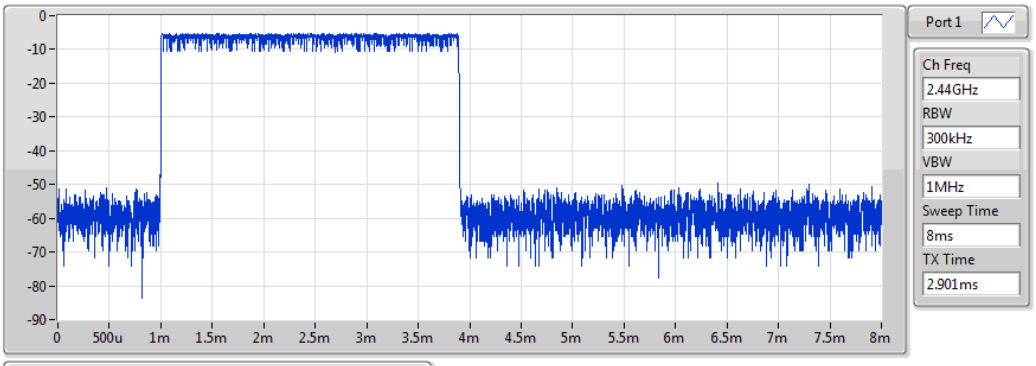
| Mode | Max-Dwell (s) |
|---|---|
| 2.4-2.4835GHz | - |
| BT-BR(1Mbps) | 309.2466m |
| BT-EDR(2Mbps) | 310.0994m |
| BT-EDR(3Mbps) | 310.5258m |

**Result**

| Mode | Result | Period (s) | Dwell (s) | Limit (s) | Tx On (s) |
|---|---|---|---|---|---|
| BT-BR(1Mbps) | - | - | - | - | - |
| 2440MHz_TnomVnom | Pass | 31.6 | 309.2466m | 400m | 2.901m |
| BT-EDR(2Mbps) | - | - | - | - | - |
| 2440MHz_TnomVnom | Pass | 31.6 | 310.0994m | 400m | 2.909m |
| BT-EDR(3Mbps) | - | - | - | - | - |
| 2440MHz_TnomVnom | Pass | 31.6 | 310.5258m | 400m | 2.913m |

**BT-BR(1Mbps)** **Dwell**

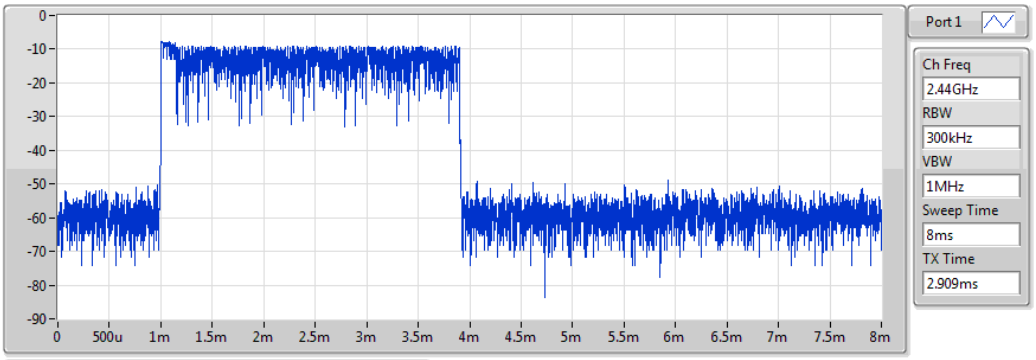
**2440MHz**




| Period(s) | Dwell(s) | Limit(s) | Tx On(s) |
|---|---|---|---|
| 31.6 | 309.2466m | 400m | 2.901m |

**BT-EDR(2Mbps)** **Dwell**

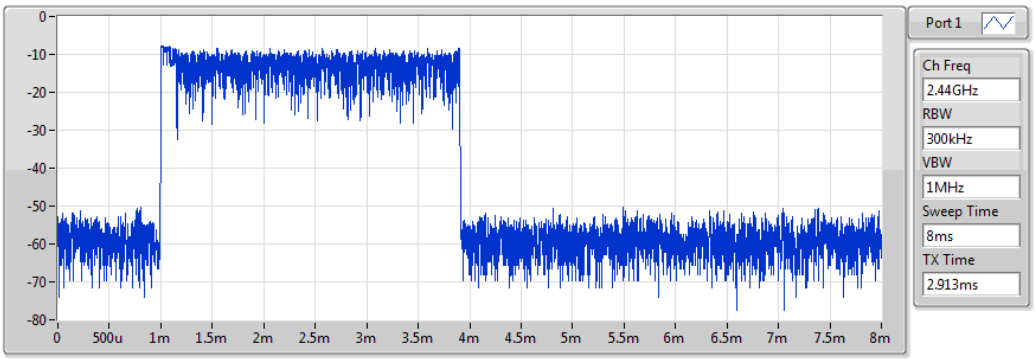
**2440MHz**




| Period(s) | Dwell(s) | Limit(s) | Tx On(s) |
|---|---|---|---|
| 31.6 | 310.0994m | 400m | 2.909m |

**BT-EDR(3Mbps)** **Dwell**

**2440MHz**




| Period(s) | Dwell(s) | Limit(s) | Tx On(s) |
|---|---|---|---|
| 31.6 | 310.5258m | 400m | 2.913m |

## Summary

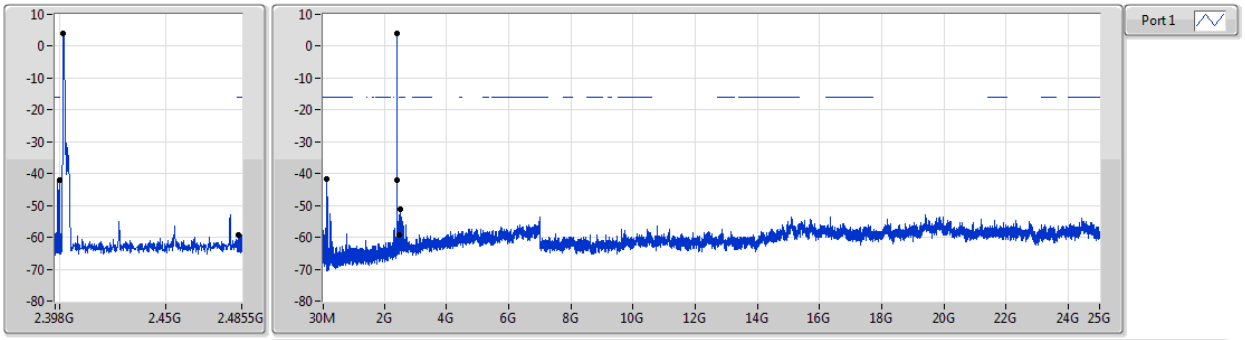
| Mode | Result | Ref (Hz) | Ref (dBm) | Limit (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4-2.4835GHz | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BT-BR(1Mbps) | Pass | 2.401837G | 4.13 | -15.87 | 147.216M | -41.52 | 2.399996G | -42.01 | 2.483836G | -59.38 | 2.5052G | -51.29 | 1 |
| BT-EDR(2Mbps) | Pass | 2.402004G | 0.64 | -19.36 | 147.216M | -41.56 | 2.399968G | -49.04 | 2.484752G | -59.41 | 15.099249G | -53.94 | 1 |
| BT-EDR(3Mbps) | Pass | 2.44008G | 1.41 | -18.59 | 147.216M | -41.68 | 2.398116G | -59.56 | 2.48492G | -59.41 | 24.442766G | -54.29 | 1 |

## Result

| Mode | Result | Ref (Hz) | Ref (dBm) | Limit (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BT-BR(1Mbps) | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2402MHz | Pass | 2.401837G | 4.13 | -15.87 | 147.216M | -41.52 | 2.399996G | -42.01 | 2.483836G | -59.38 | 2.5052G | -51.29 | 1 |
| 2440MHz | Pass | 2.439913G | 5.78 | -14.22 | 147.216M | -41.62 | 2.399756G | -59.12 | 2.48448G | -59.16 | 2.595258G | -49.43 | 1 |
| 2480MHz | Pass | 2.48016G | 6.16 | -13.84 | 147.216M | -41.41 | 2.399524G | -60.78 | 2.484052G | -55.51 | 2.634659G | -51.67 | 1 |
| BT-EDR(2Mbps) | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2402MHz | Pass | 2.402004G | 0.64 | -19.36 | 147.216M | -41.56 | 2.399968G | -49.04 | 2.484752G | -59.41 | 15.099249G | -53.94 | 1 |
| 2440MHz | Pass | 2.439913G | 1.66 | -18.34 | 147.216M | -41.64 | 2.39976G | -60.05 | 2.483576G | -58.63 | 15.07392G | -53.57 | 1 |
| 2480MHz | Pass | 2.48016G | 3.76 | -16.24 | 147.216M | -41.56 | 2.398112G | -59.60 | 2.484016G | -57.59 | 24.65384G | -53.82 | 1 |
| BT-EDR(3Mbps) | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2402MHz | Pass | 2.402171G | 1.90 | -18.10 | 147.216M | -41.50 | 2.399972G | -48.85 | 2.484452G | -60.04 | 15.107692G | -54.48 | 1 |
| 2440MHz | Pass | 2.44008G | 1.41 | -18.59 | 147.216M | -41.68 | 2.398116G | -59.56 | 2.48492G | -59.41 | 24.442766G | -54.29 | 1 |
| 2480MHz | Pass | 2.479993G | 1.91 | -18.09 | 147.216M | -41.68 | 2.399704G | -59.23 | 2.4838G | -57.86 | 2.634659G | -52.48 | 1 |

**BT-BR(1Mbps)** **CSE NdB**

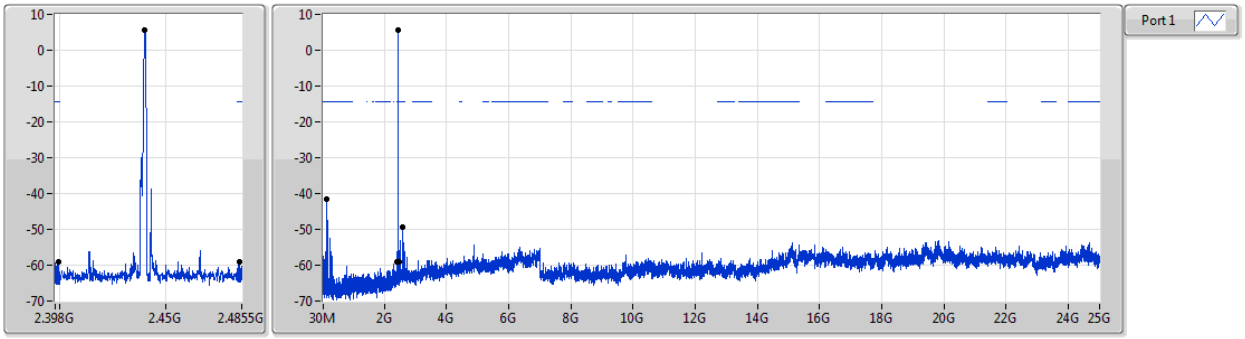
**2402MHz**




| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.401837G | 4.13 | -15.87 | 147.216M | -41.52 | 2.399996G | -42.01 | 2.483836G | -59.38 | 2.5052G | -51.29 | 1 |

**BT-BR(1Mbps)** **CSE NdB**

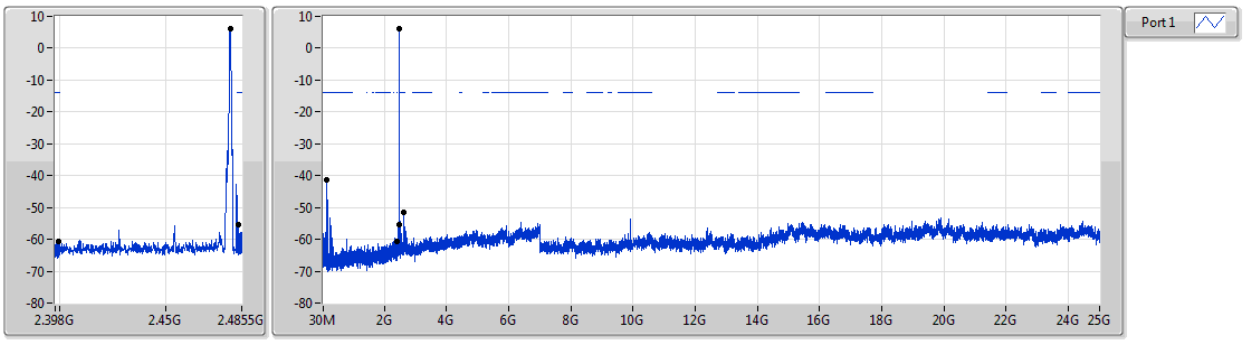
**2440MHz**




| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.439913G | 5.78 | -14.22 | 147.216M | -41.62 | 2.399756G | -59.12 | 2.48448G | -59.16 | 2.595258G | -49.43 | 1 |

**BT-BR(1Mbps)** **CSE NdB**

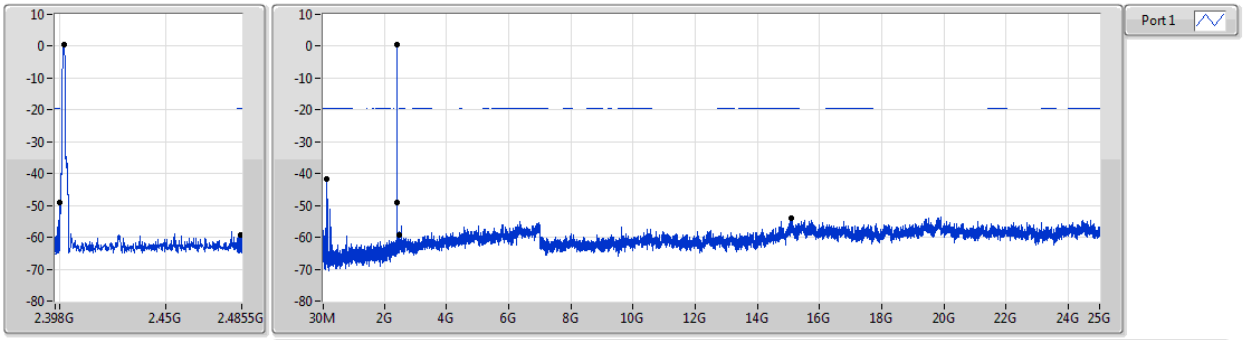
**2480MHz**




| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.48016G | 6.16 | -13.84 | 147.216M | -41.41 | 2.399524G | -60.78 | 2.484052G | -55.51 | 2.634659G | -51.67 | 1 |

**BT-EDR(2Mbps)** **CSE NdB**

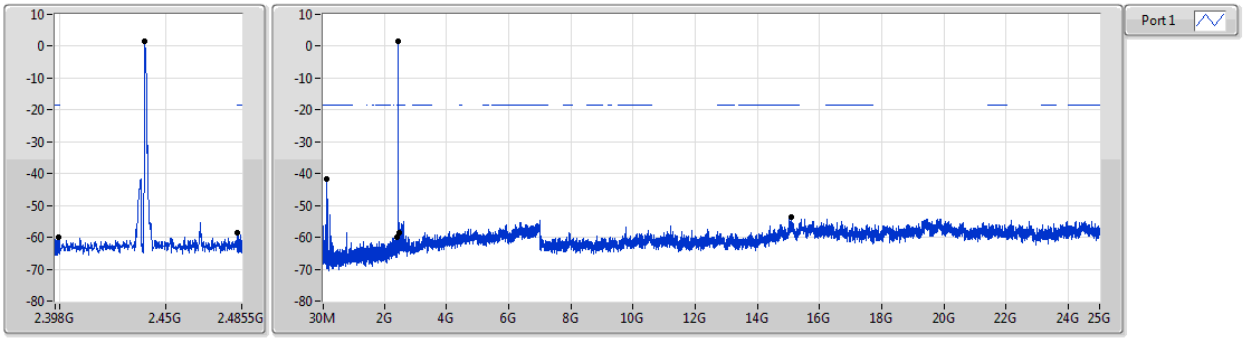
**2402MHz**




| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.402004G | 0.64 | -19.36 | 147.216M | -41.56 | 2.399968G | -49.04 | 2.484752G | -59.41 | 15.099249G | -53.94 | 1 |

**BT-EDR(2Mbps)** **CSE NdB**

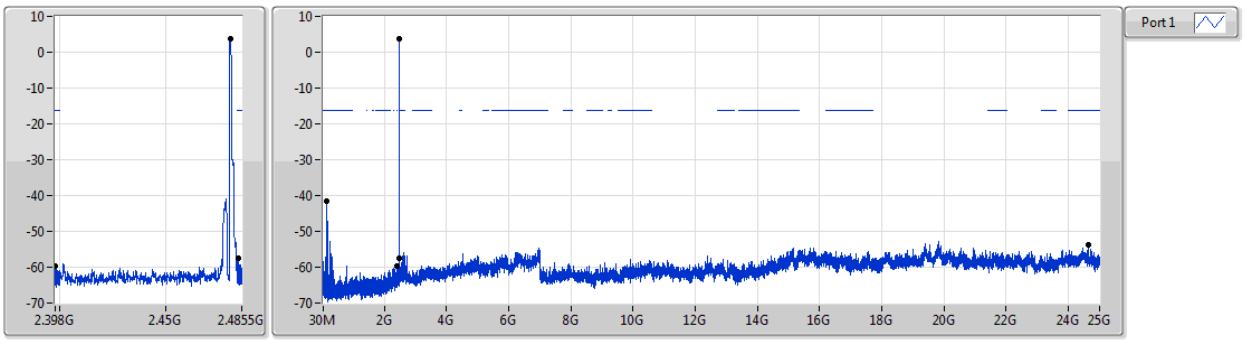
**2440MHz**




| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.439913G | 1.66 | -18.34 | 147.216M | -41.64 | 2.39976G | -60.05 | 2.483576G | -58.63 | 15.07392G | -53.57 | 1 |

**BT-EDR(2Mbps)** **CSE NdB**

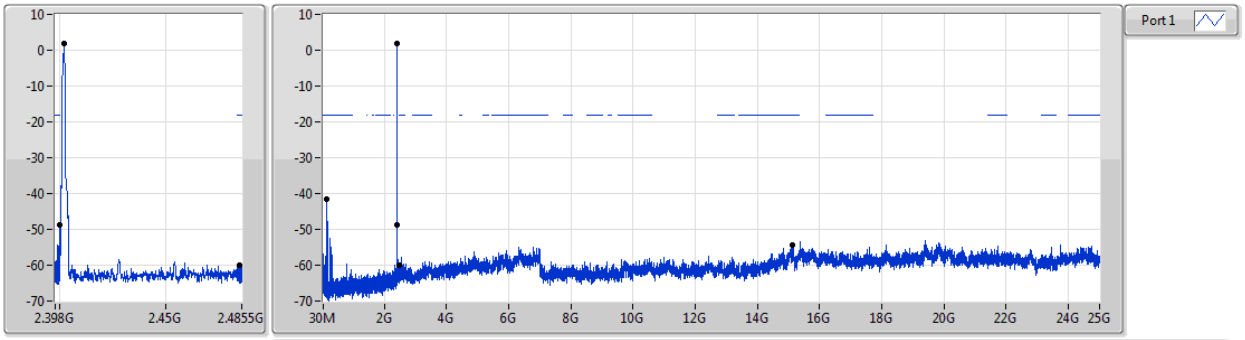
**2480MHz**




| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.48016G | 3.76 | -16.24 | 147.216M | -41.56 | 2.398112G | -59.60 | 2.484016G | -57.59 | 24.65384G | -53.82 | 1 |

**BT-EDR(3Mbps)** **CSE NdB**

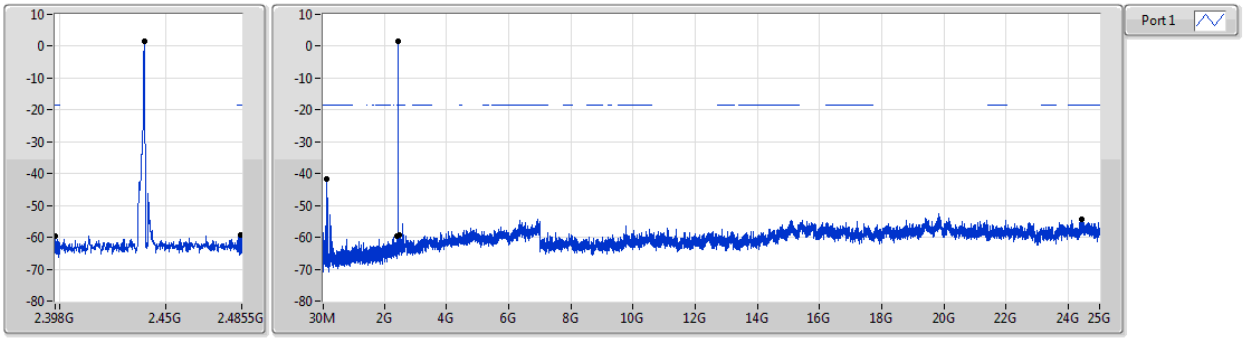
**2402MHz**




| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.402171G | 1.90 | -18.10 | 147.216M | -41.50 | 2.399972G | -48.85 | 2.484452G | -60.04 | 15.107692G | -54.48 | 1 |

**BT-EDR(3Mbps)** **CSE NdB**

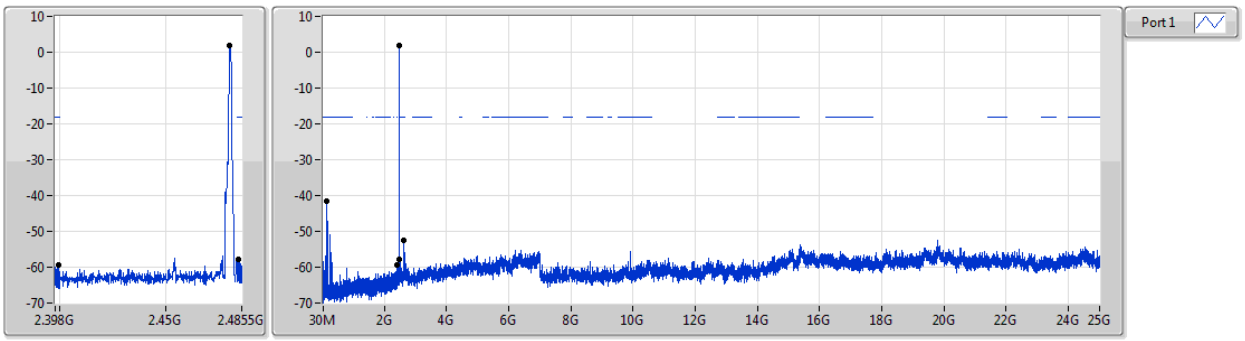
**2440MHz**




| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.44008G | 1.41 | -18.59 | 147.216M | -41.68 | 2.398116G | -59.56 | 2.48492G | -59.41 | 24.442766G | -54.29 | 1 |

**BT-EDR(3Mbps)** **CSE NdB**

**2480MHz**




| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.479993G | 1.91 | -18.09 | 147.216M | -41.68 | 2.399704G | -59.23 | 2.4838G | -57.86 | 2.634659G | -52.48 | 1 |

**Summary**

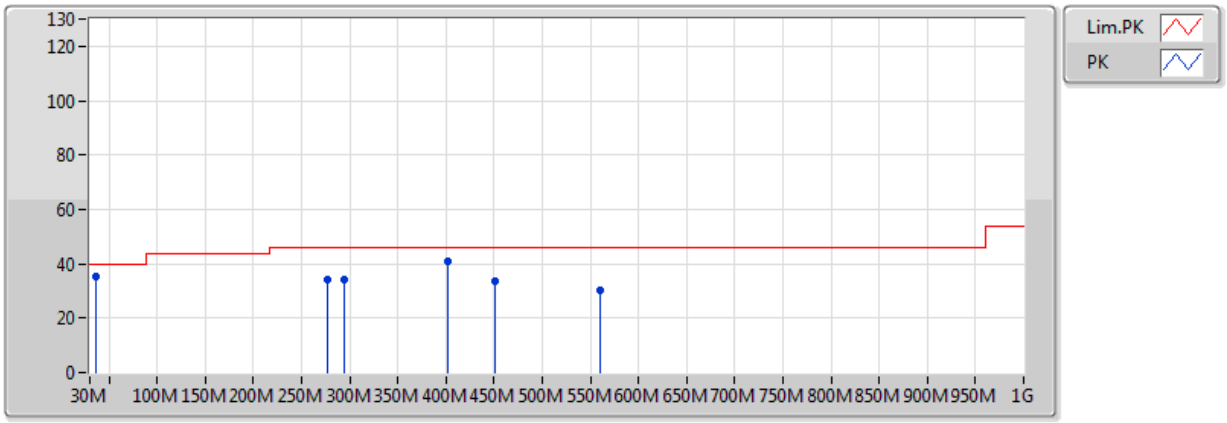
| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4-2.4835GHz | - | - | - | - | - | - | - | - | - | - | - | - |
| BT-BR(1Mbps) | Pass | PK | 35.82M | 35.48 | 40.00 | -4.52 | -5.85 | 3 | Vertical | 360 | 1.00 | - |

**Result**

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BT-BR(1Mbps) | - | - | - | - | - | - | - | - | - | - | - | - |
| 2440MHz_PoE | Pass | PK | 31.94M | 28.27 | 40.00 | -11.73 | -3.57 | 3 | Horizontal | 0 | 1.00 | - |
| 2440MHz_PoE | Pass | PK | 280.26M | 38.26 | 46.00 | -7.74 | -6.01 | 3 | Horizontal | 0 | 1.00 | - |
| 2440MHz_PoE | Pass | PK | 297.72M | 38.05 | 46.00 | -7.95 | -5.90 | 3 | Horizontal | 0 | 1.00 | - |
| 2440MHz_PoE | Pass | PK | 400.54M | 35.87 | 46.00 | -10.13 | -3.38 | 3 | Horizontal | 0 | 1.00 | - |
| 2440MHz_PoE | Pass | PK | 431.58M | 40.67 | 46.00 | -5.33 | -2.76 | 3 | Horizontal | 0 | 1.00 | - |
| 2440MHz_PoE | Pass | PK | 452.92M | 32.27 | 46.00 | -13.73 | -2.32 | 3 | Horizontal | 0 | 1.00 | - |
| 2440MHz_PoE | Pass | PK | 35.82M | 35.48 | 40.00 | -4.52 | -5.85 | 3 | Vertical | 360 | 1.00 | - |
| 2440MHz_PoE | Pass | PK | 276.38M | 34.30 | 46.00 | -11.70 | -6.09 | 3 | Vertical | 360 | 1.00 | - |
| 2440MHz_PoE | Pass | PK | 293.84M | 34.17 | 46.00 | -11.83 | -6.04 | 3 | Vertical | 360 | 1.00 | - |
| 2440MHz_PoE | Pass | PK | 402.48M | 40.96 | 46.00 | -5.04 | -3.29 | 3 | Vertical | 360 | 1.00 | - |
| 2440MHz_PoE | Pass | PK | 450.98M | 33.80 | 46.00 | -12.20 | -2.37 | 3 | Vertical | 360 | 1.00 | - |
| 2440MHz_PoE | Pass | PK | 559.62M | 30.44 | 46.00 | -15.56 | -0.53 | 3 | Vertical | 360 | 1.00 | - |
| 2440MHz_AC | Pass | PK | 31.94M | 24.51 | 40.00 | -15.49 | -5.94 | 3 | Horizontal | 360 | 1.00 | - |
| 2440MHz_AC | Pass | PK | 115.36M | 21.69 | 43.50 | -21.81 | -9.04 | 3 | Horizontal | 360 | 1.00 | - |
| 2440MHz_AC | Pass | PK | 297.72M | 25.73 | 46.00 | -20.27 | -6.49 | 3 | Horizontal | 360 | 1.00 | - |
| 2440MHz_AC | Pass | PK | 503.36M | 28.57 | 46.00 | -17.43 | -2.46 | 3 | Horizontal | 360 | 1.00 | - |
| 2440MHz_AC | Pass | PK | 741.98M | 31.40 | 46.00 | -14.60 | 0.53 | 3 | Horizontal | 360 | 1.00 | - |
| 2440MHz_AC | Pass | PK | 934.04M | 34.88 | 46.00 | -11.12 | 3.07 | 3 | Horizontal | 360 | 1.00 | - |
| 2440MHz_AC | Pass | PK | 33.88M | 34.46 | 40.00 | -5.54 | -6.70 | 3 | Vertical | 0 | 1.00 | - |
| 2440MHz_AC | Pass | PK | 123.12M | 21.82 | 43.50 | -21.68 | -8.90 | 3 | Vertical | 0 | 1.00 | - |
| 2440MHz_AC | Pass | PK | 260.86M | 23.08 | 46.00 | -22.92 | -6.41 | 3 | Vertical | 0 | 1.00 | - |
| 2440MHz_AC | Pass | PK | 322.94M | 25.65 | 46.00 | -20.35 | -6.11 | 3 | Vertical | 0 | 1.00 | - |
| 2440MHz_AC | Pass | PK | 606.18M | 30.74 | 46.00 | -15.26 | -1.16 | 3 | Vertical | 0 | 1.00 | - |
| 2440MHz_AC | Pass | PK | 934.04M | 35.35 | 46.00 | -10.65 | 3.07 | 3 | Vertical | 0 | 1.00 | - |

## BT-BR(1Mbps)

## 2440MHz_PoE

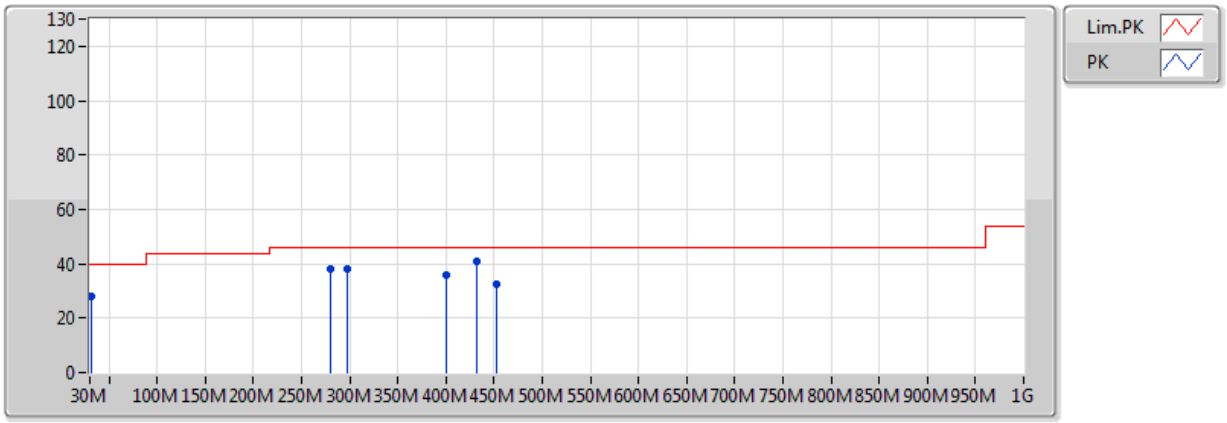



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| PK | 35.82M | 35.48 | 40.00 | -4.52 | -5.85 | 3 | Vertical | 360 | 1.00 | - | 41.33 | 19.92 | 1.81 | 27.57 |
| PK | 276.38M | 34.30 | 46.00 | -11.70 | -6.09 | 3 | Vertical | 360 | 1.00 | - | 40.39 | 18.00 | 2.65 | 26.74 |
| PK | 293.84M | 34.17 | 46.00 | -11.83 | -6.04 | 3 | Vertical | 360 | 1.00 | - | 40.21 | 18.28 | 2.38 | 26.69 |
| PK | 402.48M | 40.96 | 46.00 | -5.04 | -3.29 | 3 | Vertical | 360 | 1.00 | - | 44.25 | 20.93 | 3.08 | 27.30 |
| PK | 450.98M | 33.80 | 46.00 | -12.20 | -2.37 | 3 | Vertical | 360 | 1.00 | - | 36.17 | 21.76 | 3.43 | 27.56 |
| PK | 559.62M | 30.44 | 46.00 | -15.56 | -0.53 | 3 | Vertical | 360 | 1.00 | - | 30.97 | 23.73 | 3.67 | 27.93 |

## BT-BR(1Mbps)

## 2440MHz_PoE

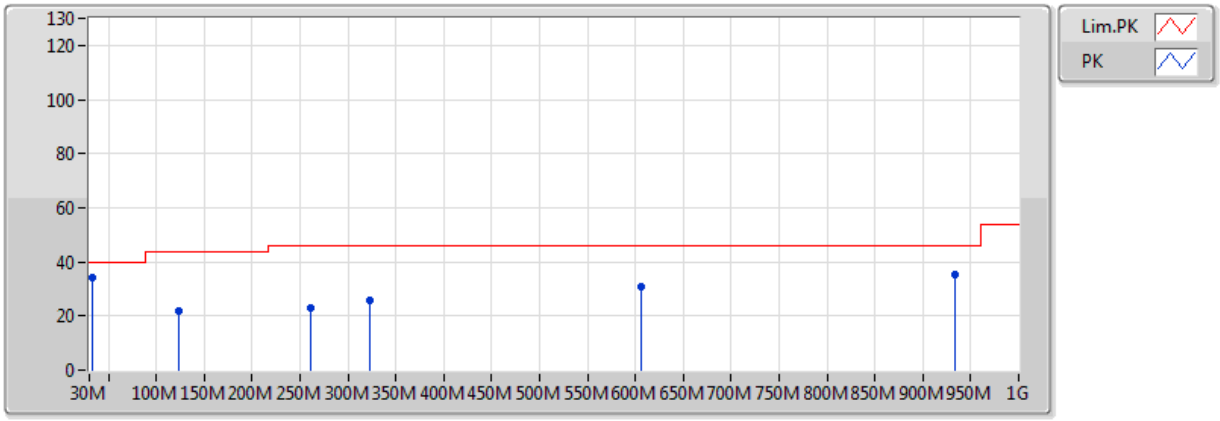



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| PK | 31.94M | 28.27 | 40.00 | -11.73 | -3.57 | 3 | Horizontal | 0 | 1.00 | - | 31.84 | 22.27 | 1.74 | 27.58 |
| PK | 280.26M | 38.26 | 46.00 | -7.74 | -6.01 | 3 | Horizontal | 0 | 1.00 | - | 44.27 | 17.99 | 2.72 | 26.73 |
| PK | 297.72M | 38.05 | 46.00 | -7.95 | -5.90 | 3 | Horizontal | 0 | 1.00 | - | 43.95 | 18.39 | 2.39 | 26.68 |
| PK | 400.54M | 35.87 | 46.00 | -10.13 | -3.38 | 3 | Horizontal | 0 | 1.00 | - | 39.25 | 20.84 | 3.06 | 27.29 |
| PK | 431.58M | 40.67 | 46.00 | -5.33 | -2.76 | 3 | Horizontal | 0 | 1.00 | - | 43.43 | 21.41 | 3.29 | 27.46 |
| PK | 452.92M | 32.27 | 46.00 | -13.73 | -2.32 | 3 | Horizontal | 0 | 1.00 | - | 34.59 | 21.81 | 3.44 | 27.57 |

## BT-BR(1Mbps)

## 2440MHz_AC

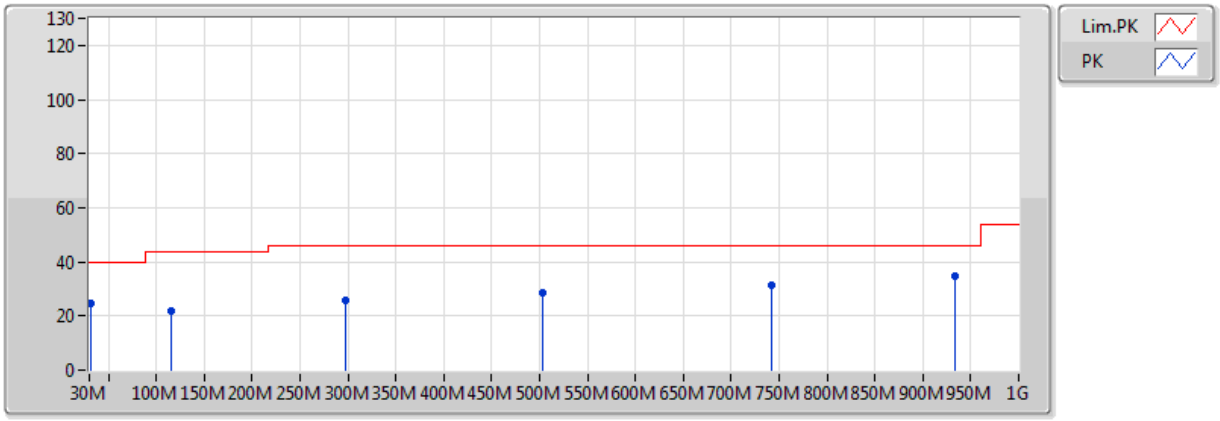



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| PK | 33.88M | 34.46 | 40.00 | -5.54 | -6.70 | 3 | Vertical | 0 | 1.00 | - | 41.16 | 20.36 | 0.74 | 27.80 |
| PK | 123.12M | 21.82 | 43.50 | -21.68 | -8.90 | 3 | Vertical | 0 | 1.00 | - | 30.72 | 17.18 | 1.64 | 27.73 |
| PK | 260.86M | 23.08 | 46.00 | -22.92 | -6.41 | 3 | Vertical | 0 | 1.00 | - | 29.49 | 18.62 | 2.28 | 27.30 |
| PK | 322.94M | 25.65 | 46.00 | -20.35 | -6.11 | 3 | Vertical | 0 | 1.00 | - | 31.76 | 18.70 | 2.56 | 27.37 |
| PK | 606.18M | 30.74 | 46.00 | -15.26 | -1.16 | 3 | Vertical | 0 | 1.00 | - | 31.90 | 23.71 | 3.67 | 28.55 |
| PK | 934.04M | 35.35 | 46.00 | -10.65 | 3.07 | 3 | Vertical | 0 | 1.00 | - | 32.28 | 25.67 | 4.92 | 27.51 |

## BT-BR(1Mbps)

## 2440MHz_AC




EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| PK | 31.94M | 24.51 | 40.00 | -15.49 | -5.94 | 3 | Horizontal | 360 | 1.00 | - | 30.45 | 21.19 | 0.71 | 27.83 |
| PK | 115.36M | 21.69 | 43.50 | -21.81 | -9.04 | 3 | Horizontal | 360 | 1.00 | - | 30.73 | 17.18 | 1.53 | 27.75 |
| PK | 297.72M | 25.73 | 46.00 | -20.27 | -6.49 | 3 | Horizontal | 360 | 1.00 | - | 32.22 | 18.20 | 2.51 | 27.20 |
| PK | 503.36M | 28.57 | 46.00 | -17.43 | -2.46 | 3 | Horizontal | 360 | 1.00 | - | 31.03 | 22.63 | 3.40 | 28.49 |
| PK | 741.98M | 31.40 | 46.00 | -14.60 | 0.53 | 3 | Horizontal | 360 | 1.00 | - | 30.87 | 24.62 | 4.16 | 28.25 |
| PK | 934.04M | 34.88 | 46.00 | -11.12 | 3.07 | 3 | Horizontal | 360 | 1.00 | - | 31.81 | 25.67 | 4.92 | 27.51 |

**Summary**

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4-2.4835GHz | - | - | - | - | - | - | - | - | - | - | - | - |
| BT-BR(1Mbps) | Pass | AV | 2.483502G | 49.69 | 54.00 | -4.31 | 31.27 | 3 | Vertical | 5 | 2.22 | - |
| BT-EDR(2Mbps) | Pass | AV | 2.483502G | 48.25 | 54.00 | -5.75 | 31.27 | 3 | Vertical | 9 | 2.22 | - |
| BT-EDR(3Mbps) | Pass | AV | 2.483502G | 48.21 | 54.00 | -5.79 | 31.27 | 3 | Vertical | 12 | 2.24 | - |

**Result**

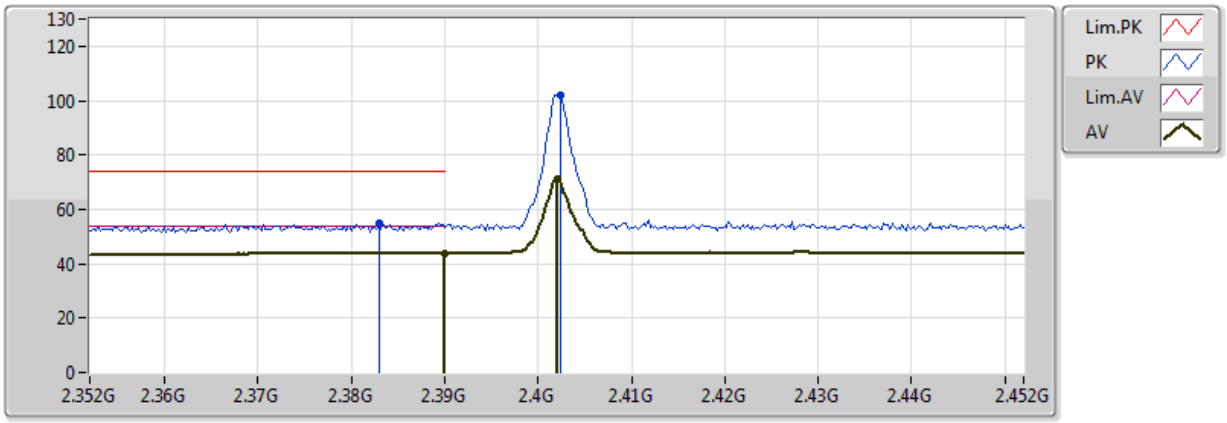
| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BT-BR(1Mbps) | - | - | - | - | - | - | - | - | - | - | - | - |
| 2402MHz | Pass | AV | 2.39G | 43.77 | 54.00 | -10.23 | 30.93 | 3 | Horizontal | 357 | 2.71 | - |
| 2402MHz | Pass | AV | 2.402G | 70.89 | Inf | -Inf | 30.98 | 3 | Horizontal | 357 | 2.71 | - |
| 2402MHz | Pass | PK | 2.3666G | 54.45 | 74.00 | -19.55 | 30.85 | 3 | Horizontal | 357 | 2.71 | - |
| 2402MHz | Pass | PK | 2.4024G | 101.37 | Inf | -Inf | 30.98 | 3 | Horizontal | 357 | 2.71 | - |
| 2402MHz | Pass | AV | 2.39G | 43.77 | 54.00 | -10.23 | 30.93 | 3 | Vertical | 6 | 2.14 | - |
| 2402MHz | Pass | AV | 2.402G | 71.23 | Inf | -Inf | 30.98 | 3 | Vertical | 6 | 2.14 | - |
| 2402MHz | Pass | PK | 2.383G | 55.11 | 74.00 | -18.89 | 30.91 | 3 | Vertical | 6 | 2.14 | - |
| 2402MHz | Pass | PK | 2.4024G | 102.14 | Inf | -Inf | 30.98 | 3 | Vertical | 6 | 2.14 | - |
| 2402MHz | Pass | AV | 4.80412G | 43.71 | 54.00 | -10.29 | 2.10 | 3 | Horizontal | 9 | 1.46 | - |
| 2402MHz | Pass | PK | 4.80383G | 49.77 | 74.00 | -24.23 | 2.10 | 3 | Horizontal | 9 | 1.46 | - |
| 2402MHz | Pass | AV | 4.8041G | 46.17 | 54.00 | -7.83 | 2.10 | 3 | Vertical | 355 | 1.20 | - |
| 2402MHz | Pass | PK | 4.80439G | 51.37 | 74.00 | -22.63 | 2.10 | 3 | Vertical | 355 | 1.20 | - |
| 2440MHz | Pass | AV | 2.388G | 43.92 | 54.00 | -10.08 | 30.93 | 3 | Horizontal | 359 | 2.62 | - |
| 2440MHz | Pass | AV | 2.44G | 71.04 | Inf | -Inf | 31.11 | 3 | Horizontal | 359 | 2.62 | - |
| 2440MHz | Pass | AV | 2.492G | 44.44 | 54.00 | -9.56 | 31.30 | 3 | Horizontal | 359 | 2.62 | - |
| 2440MHz | Pass | PK | 2.3708G | 54.87 | 74.00 | -19.13 | 30.87 | 3 | Horizontal | 359 | 2.62 | - |
| 2440MHz | Pass | PK | 2.44G | 101.72 | Inf | -Inf | 31.11 | 3 | Horizontal | 359 | 2.62 | - |
| 2440MHz | Pass | PK | 2.4896G | 55.76 | 74.00 | -18.24 | 31.29 | 3 | Horizontal | 359 | 2.62 | - |
| 2440MHz | Pass | AV | 2.388G | 43.96 | 54.00 | -10.04 | 30.93 | 3 | Vertical | 14 | 2.09 | - |
| 2440MHz | Pass | AV | 2.44G | 71.72 | Inf | -Inf | 31.11 | 3 | Vertical | 14 | 2.09 | - |
| 2440MHz | Pass | AV | 2.492G | 44.75 | 54.00 | -9.25 | 31.30 | 3 | Vertical | 14 | 2.09 | - |
| 2440MHz | Pass | PK | 2.3732G | 54.62 | 74.00 | -19.38 | 30.88 | 3 | Vertical | 14 | 2.09 | - |
| 2440MHz | Pass | PK | 2.44G | 103.26 | Inf | -Inf | 31.11 | 3 | Vertical | 14 | 2.09 | - |
| 2440MHz | Pass | PK | 2.4868G | 55.17 | 74.00 | -18.83 | 31.28 | 3 | Vertical | 14 | 2.09 | - |
| 2440MHz | Pass | AV | 4.88008G | 43.23 | 54.00 | -10.77 | 2.34 | 3 | Horizontal | 8 | 1.61 | - |
| 2440MHz | Pass | PK | 4.88027G | 49.86 | 74.00 | -24.14 | 2.34 | 3 | Horizontal | 8 | 1.61 | - |
| 2440MHz | Pass | AV | 4.88008G | 47.79 | 54.00 | -6.21 | 2.34 | 3 | Vertical | 351 | 1.55 | - |
| 2440MHz | Pass | PK | 4.87967G | 52.65 | 74.00 | -21.35 | 2.34 | 3 | Vertical | 351 | 1.55 | - |
| 2480MHz | Pass | AV | 2.48G | 71.78 | Inf | -Inf | 31.26 | 3 | Horizontal | 359 | 2.34 | - |
| 2480MHz | Pass | AV | 2.483502G | 48.65 | 54.00 | -5.35 | 31.27 | 3 | Horizontal | 359 | 2.34 | - |
| 2480MHz | Pass | PK | 2.48G | 102.96 | Inf | -Inf | 31.26 | 3 | Horizontal | 359 | 2.34 | - |
| 2480MHz | Pass | PK | 2.483502G | 62.86 | 74.00 | -11.14 | 31.27 | 3 | Horizontal | 359 | 2.34 | - |
| 2480MHz | Pass | AV | 2.48G | 72.82 | Inf | -Inf | 31.26 | 3 | Vertical | 5 | 2.22 | - |
| 2480MHz | Pass | AV | 2.483502G | 49.69 | 54.00 | -4.31 | 31.27 | 3 | Vertical | 5 | 2.22 | - |
| 2480MHz | Pass | PK | 2.48G | 105.41 | Inf | -Inf | 31.26 | 3 | Vertical | 5 | 2.22 | - |
| 2480MHz | Pass | PK | 2.483502G | 65.63 | 74.00 | -8.37 | 31.27 | 3 | Vertical | 5 | 2.22 | - |
| 2480MHz | Pass | AV | 4.96009G | 40.82 | 54.00 | -13.18 | 2.59 | 3 | Horizontal | 349 | 1.28 | - |
| 2480MHz | Pass | PK | 4.96037G | 48.83 | 74.00 | -25.17 | 2.59 | 3 | Horizontal | 349 | 1.28 | - |
| 2480MHz | Pass | AV | 4.9601G | 44.17 | 54.00 | -9.83 | 2.59 | 3 | Vertical | 26 | 1.45 | - |
| 2480MHz | Pass | PK | 4.95977G | 50.53 | 74.00 | -23.47 | 2.59 | 3 | Vertical | 26 | 1.45 | - |
| BT-EDR(2Mbps) | - | - | - | - | - | - | - | - | - | - | - | - |
| 2402MHz | Pass | AV | 2.388G | 43.78 | 54.00 | -10.22 | 30.93 | 3 | Horizontal | 359 | 2.45 | - |
| 2402MHz | Pass | AV | 2.402G | 67.91 | Inf | -Inf | 30.98 | 3 | Horizontal | 359 | 2.45 | - |
| 2402MHz | Pass | PK | 2.3802G | 55.92 | 74.00 | -18.08 | 30.90 | 3 | Horizontal | 359 | 2.45 | - |
| 2402MHz | Pass | PK | 2.4024G | 98.45 | Inf | -Inf | 30.98 | 3 | Horizontal | 359 | 2.45 | - |
| 2402MHz | Pass | AV | 2.388G | 43.78 | 54.00 | -10.22 | 30.93 | 3 | Vertical | 6 | 2.15 | - |
| 2402MHz | Pass | AV | 2.402G | 68.48 | Inf | -Inf | 30.98 | 3 | Vertical | 6 | 2.15 | - |

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2402MHz | Pass | PK | 2.3818G | 54.24 | 74.00 | -19.76 | 30.91 | 3 | Vertical | 6 | 2.15 | - |
| 2402MHz | Pass | PK | 2.4024G | 99.19 | Inf | -Inf | 30.98 | 3 | Vertical | 6 | 2.15 | - |
| 2440MHz | Pass | AV | 2.388G | 43.80 | 54.00 | -10.20 | 30.93 | 3 | Horizontal | 360 | 2.65 | - |
| 2440MHz | Pass | AV | 2.44G | 68.36 | Inf | -Inf | 31.11 | 3 | Horizontal | 360 | 2.65 | - |
| 2440MHz | Pass | AV | 2.4996G | 44.35 | 54.00 | -9.65 | 31.33 | 3 | Horizontal | 360 | 2.65 | - |
| 2440MHz | Pass | PK | 2.3836G | 54.99 | 74.00 | -19.01 | 30.91 | 3 | Horizontal | 360 | 2.65 | - |
| 2440MHz | Pass | PK | 2.44G | 98.95 | Inf | -Inf | 31.11 | 3 | Horizontal | 360 | 2.65 | - |
| 2440MHz | Pass | PK | 2.4992G | 55.08 | 74.00 | -18.92 | 31.33 | 3 | Horizontal | 360 | 2.65 | - |
| 2440MHz | Pass | AV | 2.388G | 43.84 | 54.00 | -10.16 | 30.93 | 3 | Vertical | 10 | 1.99 | - |
| 2440MHz | Pass | AV | 2.44G | 69.09 | Inf | -Inf | 31.11 | 3 | Vertical | 10 | 1.99 | - |
| 2440MHz | Pass | AV | 2.4924G | 44.50 | 54.00 | -9.50 | 31.30 | 3 | Vertical | 10 | 1.99 | - |
| 2440MHz | Pass | PK | 2.3736G | 54.86 | 74.00 | -19.14 | 30.88 | 3 | Vertical | 10 | 1.99 | - |
| 2440MHz | Pass | PK | 2.44G | 100.47 | Inf | -Inf | 31.11 | 3 | Vertical | 10 | 1.99 | - |
| 2440MHz | Pass | PK | 2.4852G | 56.17 | 74.00 | -17.83 | 31.28 | 3 | Vertical | 10 | 1.99 | - |
| 2480MHz | Pass | AV | 2.48G | 69.79 | Inf | -Inf | 31.26 | 3 | Horizontal | 356 | 2.32 | - |
| 2480MHz | Pass | AV | 2.483502G | 47.28 | 54.00 | -6.72 | 31.27 | 3 | Horizontal | 356 | 2.32 | - |
| 2480MHz | Pass | PK | 2.4802G | 101.47 | Inf | -Inf | 31.26 | 3 | Horizontal | 356 | 2.32 | - |
| 2480MHz | Pass | PK | 2.483502G | 57.50 | 74.00 | -16.50 | 31.27 | 3 | Horizontal | 356 | 2.32 | - |
| 2480MHz | Pass | AV | 2.48G | 70.82 | Inf | -Inf | 31.26 | 3 | Vertical | 9 | 2.22 | - |
| 2480MHz | Pass | AV | 2.483502G | 48.25 | 54.00 | -5.75 | 31.27 | 3 | Vertical | 9 | 2.22 | - |
| 2480MHz | Pass | PK | 2.4802G | 103.83 | Inf | -Inf | 31.26 | 3 | Vertical | 9 | 2.22 | - |
| 2480MHz | Pass | PK | 2.483502G | 60.31 | 74.00 | -13.69 | 31.27 | 3 | Vertical | 9 | 2.22 | - |
| BT-EDR(3Mbps) | - | - | - | - | - | - | - | - | - | - | - | - |
| 2402MHz | Pass | AV | 2.3886G | 43.79 | 54.00 | -10.21 | 30.93 | 3 | Horizontal | 0 | 2.71 | - |
| 2402MHz | Pass | AV | 2.4022G | 68.05 | Inf | -Inf | 30.98 | 3 | Horizontal | 0 | 2.71 | - |
| 2402MHz | Pass | PK | 2.3896G | 54.79 | 74.00 | -19.21 | 30.93 | 3 | Horizontal | 0 | 2.71 | - |
| 2402MHz | Pass | PK | 2.4024G | 98.38 | Inf | -Inf | 30.98 | 3 | Horizontal | 0 | 2.71 | - |
| 2402MHz | Pass | AV | 2.39G | 43.77 | 54.00 | -10.23 | 30.93 | 3 | Vertical | 7 | 2.17 | - |
| 2402MHz | Pass | AV | 2.402G | 68.32 | Inf | -Inf | 30.98 | 3 | Vertical | 7 | 2.17 | - |
| 2402MHz | Pass | PK | 2.375G | 54.96 | 74.00 | -19.04 | 30.88 | 3 | Vertical | 7 | 2.17 | - |
| 2402MHz | Pass | PK | 2.4022G | 99.05 | Inf | -Inf | 30.98 | 3 | Vertical | 7 | 2.17 | - |
| 2440MHz | Pass | AV | 2.388G | 43.81 | 54.00 | -10.19 | 30.93 | 3 | Horizontal | 359 | 2.57 | - |
| 2440MHz | Pass | AV | 2.44G | 68.16 | Inf | -Inf | 31.11 | 3 | Horizontal | 359 | 2.57 | - |
| 2440MHz | Pass | AV | 2.5G | 44.37 | 54.00 | -9.63 | 31.33 | 3 | Horizontal | 359 | 2.57 | - |
| 2440MHz | Pass | PK | 2.388G | 55.13 | 74.00 | -18.87 | 30.93 | 3 | Horizontal | 359 | 2.57 | - |
| 2440MHz | Pass | PK | 2.44G | 99.06 | Inf | -Inf | 31.11 | 3 | Horizontal | 359 | 2.57 | - |
| 2440MHz | Pass | PK | 2.4976G | 55.47 | 74.00 | -18.53 | 31.32 | 3 | Horizontal | 359 | 2.57 | - |
| 2440MHz | Pass | AV | 2.388G | 43.81 | 54.00 | -10.19 | 30.93 | 3 | Vertical | 12 | 2.09 | - |
| 2440MHz | Pass | AV | 2.44G | 69.07 | Inf | -Inf | 31.11 | 3 | Vertical | 12 | 2.09 | - |
| 2440MHz | Pass | AV | 2.4924G | 44.46 | 54.00 | -9.54 | 31.30 | 3 | Vertical | 12 | 2.09 | - |
| 2440MHz | Pass | PK | 2.3468G | 55.22 | 74.00 | -18.78 | 30.78 | 3 | Vertical | 12 | 2.09 | - |
| 2440MHz | Pass | PK | 2.44G | 100.71 | Inf | -Inf | 31.11 | 3 | Vertical | 12 | 2.09 | - |
| 2440MHz | Pass | PK | 2.496G | 55.35 | 74.00 | -18.65 | 31.32 | 3 | Vertical | 12 | 2.09 | - |
| 2480MHz | Pass | AV | 2.48G | 69.36 | Inf | -Inf | 31.26 | 3 | Horizontal | 357 | 1.89 | - |
| 2480MHz | Pass | AV | 2.483502G | 47.07 | 54.00 | -6.93 | 31.27 | 3 | Horizontal | 357 | 1.89 | - |
| 2480MHz | Pass | PK | 2.4798G | 101.09 | Inf | -Inf | 31.26 | 3 | Horizontal | 357 | 1.89 | - |
| 2480MHz | Pass | PK | 2.4836G | 57.77 | 74.00 | -16.23 | 31.27 | 3 | Horizontal | 357 | 1.89 | - |
| 2480MHz | Pass | AV | 2.48G | 70.70 | Inf | -Inf | 31.26 | 3 | Vertical | 12 | 2.24 | - |
| 2480MHz | Pass | AV | 2.483502G | 48.21 | 54.00 | -5.79 | 31.27 | 3 | Vertical | 12 | 2.24 | - |

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2480MHz | Pass | PK | 2.4802G | 103.59 | Inf | -Inf | 31.26 | 3 | Vertical | 12 | 2.24 | - |
| 2480MHz | Pass | PK | 2.483502G | 60.74 | 74.00 | -13.26 | 31.27 | 3 | Vertical | 12 | 2.24 | - |

## BT-BR(1Mbps)

## 2402MHz_TX

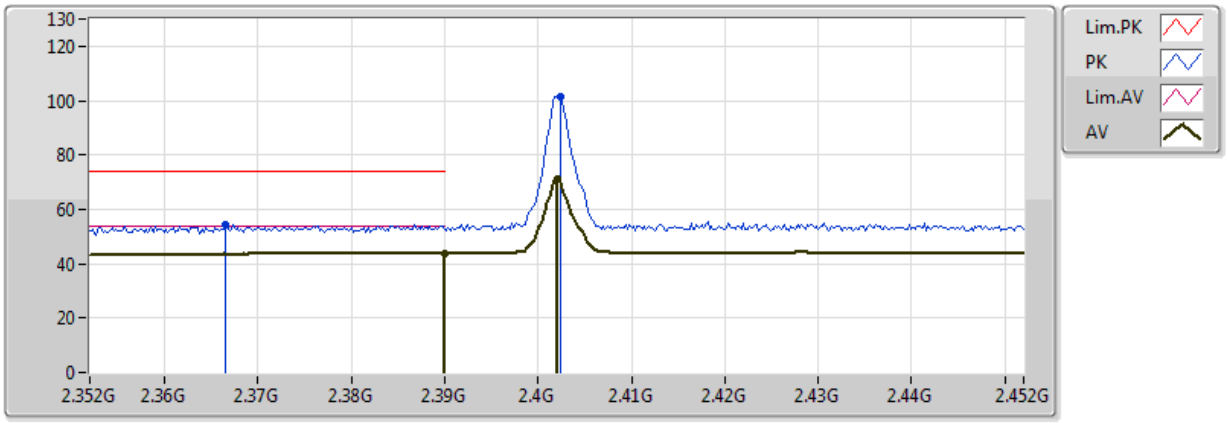



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.39G | 43.77 | 54.00 | -10.23 | 30.93 | 3 | Vertical | 6 | 2.14 | - | 12.84 | 27.31 | 3.62 | - |
| AV | 2.402G | 71.23 | Inf | -Inf | 30.98 | 3 | Vertical | 6 | 2.14 | - | 40.25 | 27.35 | 3.63 | - |
| PK | 2.383G | 55.11 | 74.00 | -18.89 | 30.91 | 3 | Vertical | 6 | 2.14 | - | 24.20 | 27.30 | 3.61 | - |
| PK | 2.4024G | 102.14 | Inf | -Inf | 30.98 | 3 | Vertical | 6 | 2.14 | - | 71.16 | 27.35 | 3.63 | - |

## BT-BR(1Mbps)

## 2402MHz_TX




EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.39G | 43.77 | 54.00 | -10.23 | 30.93 | 3 | Horizontal | 357 | 2.71 | - | 12.83 | 27.31 | 3.62 | - |
| AV | 2.402G | 70.89 | Inf | -Inf | 30.98 | 3 | Horizontal | 357 | 2.71 | - | 39.91 | 27.35 | 3.63 | - |
| PK | 2.3666G | 54.45 | 74.00 | -19.55 | 30.85 | 3 | Horizontal | 357 | 2.71 | - | 23.60 | 27.25 | 3.60 | - |
| PK | 2.4024G | 101.37 | Inf | -Inf | 30.98 | 3 | Horizontal | 357 | 2.71 | - | 70.39 | 27.35 | 3.63 | - |

## BT-BR(1Mbps)

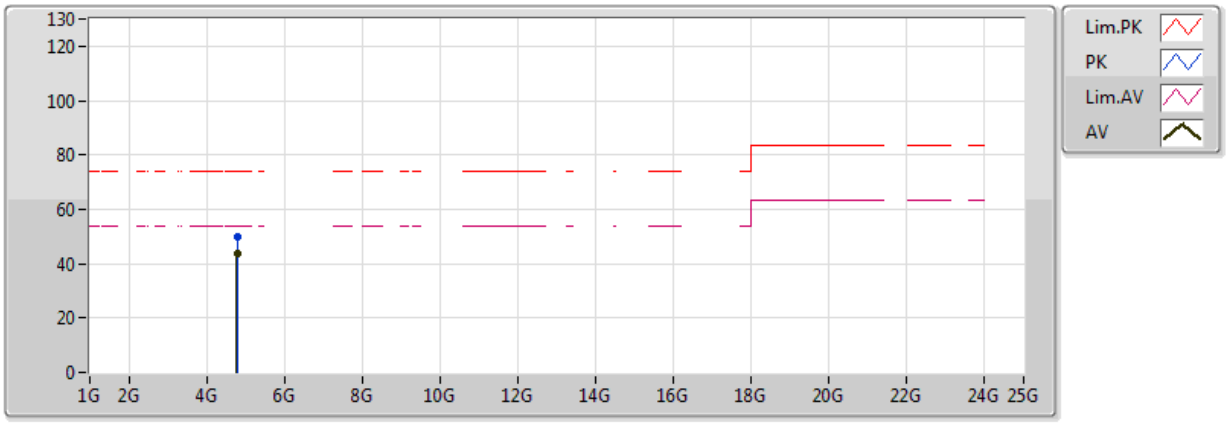
## 2402MHz_TX


EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 4.8041G | 46.17 | 54.00 | -7.83 | 2.10 | 3 | Vertical | 355 | 1.20 | - | 44.06 | 31.25 | 5.38 | 34.53 |
| PK | 4.80439G | 51.37 | 74.00 | -22.63 | 2.10 | 3 | Vertical | 355 | 1.20 | - | 49.27 | 31.25 | 5.38 | 34.53 |

## BT-BR(1Mbps)

## 2402MHz_TX

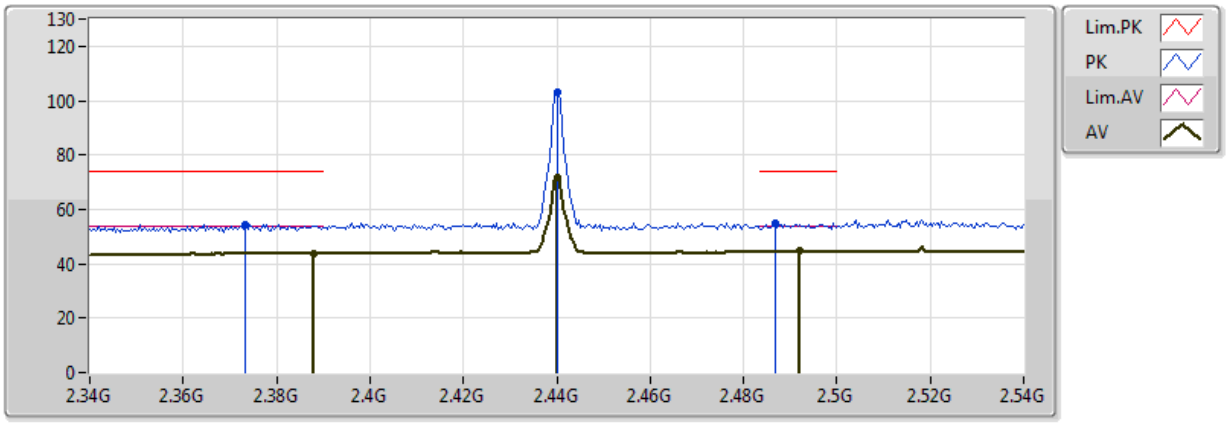



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 4.80412G | 43.71 | 54.00 | -10.29 | 2.10 | 3 | Horizontal | 9 | 1.46 | - | 41.60 | 31.25 | 5.38 | 34.53 |
| PK | 4.80383G | 49.77 | 74.00 | -24.23 | 2.10 | 3 | Horizontal | 9 | 1.46 | - | 47.66 | 31.25 | 5.38 | 34.53 |

## BT-BR(1Mbps)

## 2440MHz_TX

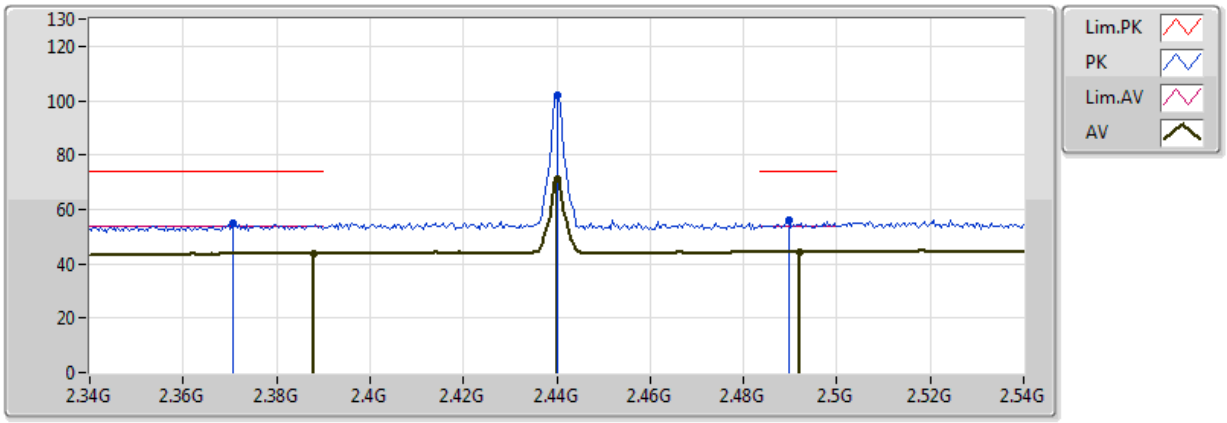



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.388G | 43.96 | 54.00 | -10.04 | 30.93 | 3 | Vertical | 14 | 2.09 | - | 13.03 | 27.31 | 3.62 | - |
| AV | 2.492G | 44.75 | 54.00 | -9.25 | 31.30 | 3 | Vertical | 14 | 2.09 | - | 13.44 | 27.58 | 3.72 | - |
| AV | 2.44G | 71.72 | Inf | -Inf | 31.11 | 3 | Vertical | 14 | 2.09 | - | 40.61 | 27.44 | 3.67 | - |
| PK | 2.3732G | 54.62 | 74.00 | -19.38 | 30.88 | 3 | Vertical | 14 | 2.09 | - | 23.74 | 27.27 | 3.61 | - |
| PK | 2.4868G | 55.17 | 74.00 | -18.83 | 31.28 | 3 | Vertical | 14 | 2.09 | - | 23.89 | 27.57 | 3.72 | - |
| PK | 2.44G | 103.26 | Inf | -Inf | 31.11 | 3 | Vertical | 14 | 2.09 | - | 72.15 | 27.44 | 3.67 | - |

## BT-BR(1Mbps)

## 2440MHz_TX

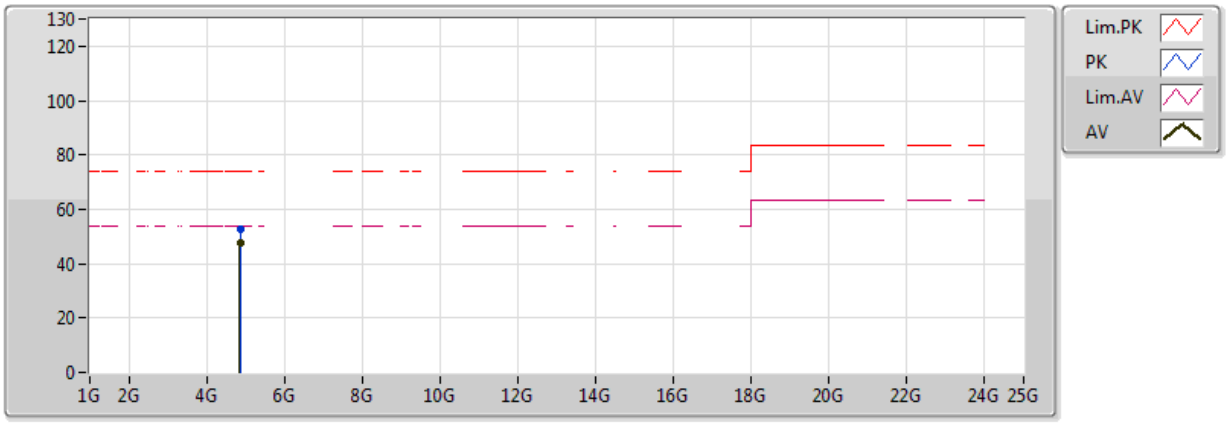



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.388G | 43.92 | 54.00 | -10.08 | 30.93 | 3 | Horizontal | 359 | 2.62 | - | 12.99 | 27.31 | 3.62 | - |
| AV | 2.492G | 44.44 | 54.00 | -9.56 | 31.30 | 3 | Horizontal | 359 | 2.62 | - | 13.13 | 27.58 | 3.72 | - |
| AV | 2.44G | 71.04 | Inf | -Inf | 31.11 | 3 | Horizontal | 359 | 2.62 | - | 39.93 | 27.44 | 3.67 | - |
| PK | 2.3708G | 54.87 | 74.00 | -19.13 | 30.87 | 3 | Horizontal | 359 | 2.62 | - | 24.00 | 27.26 | 3.60 | - |
| PK | 2.4896G | 55.76 | 74.00 | -18.24 | 31.29 | 3 | Horizontal | 359 | 2.62 | - | 24.47 | 27.57 | 3.72 | - |
| PK | 2.44G | 101.72 | Inf | -Inf | 31.11 | 3 | Horizontal | 359 | 2.62 | - | 70.61 | 27.44 | 3.67 | - |

## BT-BR(1Mbps)

## 2440MHz_TX




EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 4.88008G | 47.79 | 54.00 | -6.21 | 2.34 | 3 | Vertical | 351 | 1.55 | - | 45.46 | 31.38 | 5.47 | 34.51 |
| PK | 4.87967G | 52.65 | 74.00 | -21.35 | 2.34 | 3 | Vertical | 351 | 1.55 | - | 50.32 | 31.38 | 5.47 | 34.51 |

## BT-BR(1Mbps)

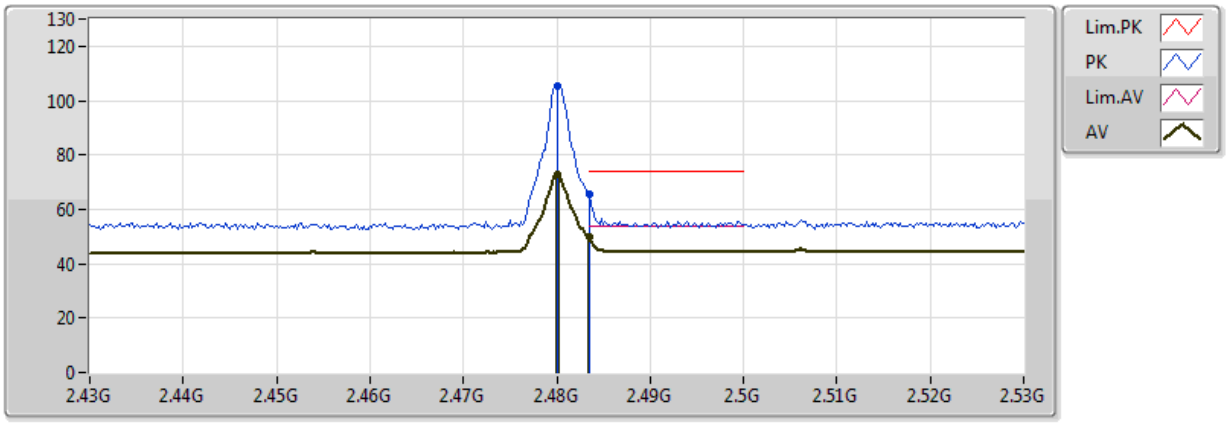
## 2440MHz_TX


EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 4.88008G | 43.23 | 54.00 | -10.77 | 2.34 | 3 | Horizontal | 8 | 1.61 | - | 40.90 | 31.38 | 5.47 | 34.51 |
| PK | 4.88027G | 49.86 | 74.00 | -24.14 | 2.34 | 3 | Horizontal | 8 | 1.61 | - | 47.52 | 31.38 | 5.47 | 34.51 |

## BT-BR(1Mbps)

## 2480MHz_TX

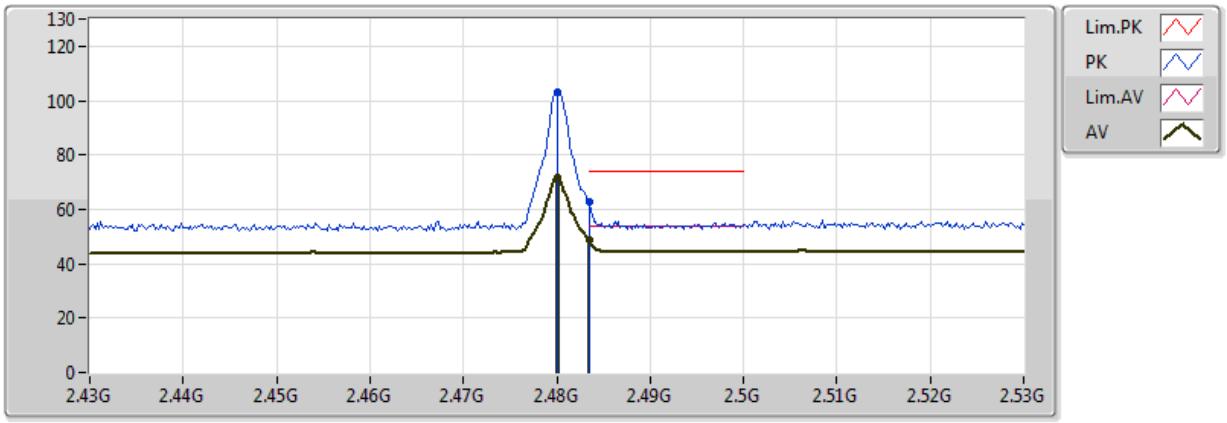



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.483502G | 49.69 | 54.00 | -4.31 | 31.27 | 3 | Vertical | 5 | 2.22 | - | 18.42 | 27.56 | 3.71 | - |
| AV | 2.48G | 72.82 | Inf | -Inf | 31.26 | 3 | Vertical | 5 | 2.22 | - | 41.56 | 27.55 | 3.71 | - |
| PK | 2.483502G | 65.63 | 74.00 | -8.37 | 31.27 | 3 | Vertical | 5 | 2.22 | - | 34.36 | 27.56 | 3.71 | - |
| PK | 2.48G | 105.41 | Inf | -Inf | 31.26 | 3 | Vertical | 5 | 2.22 | - | 74.15 | 27.55 | 3.71 | - |

## BT-BR(1Mbps)

## 2480MHz_TX




EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.483502G | 48.65 | 54.00 | -5.35 | 31.27 | 3 | Horizontal | 359 | 2.34 | - | 17.38 | 27.56 | 3.71 | - |
| AV | 2.48G | 71.78 | Inf | -Inf | 31.26 | 3 | Horizontal | 359 | 2.34 | - | 40.52 | 27.55 | 3.71 | - |
| PK | 2.483502G | 62.86 | 74.00 | -11.14 | 31.27 | 3 | Horizontal | 359 | 2.34 | - | 31.59 | 27.56 | 3.71 | - |
| PK | 2.48G | 102.96 | Inf | -Inf | 31.26 | 3 | Horizontal | 359 | 2.34 | - | 71.70 | 27.55 | 3.71 | - |

## BT-BR(1Mbps)

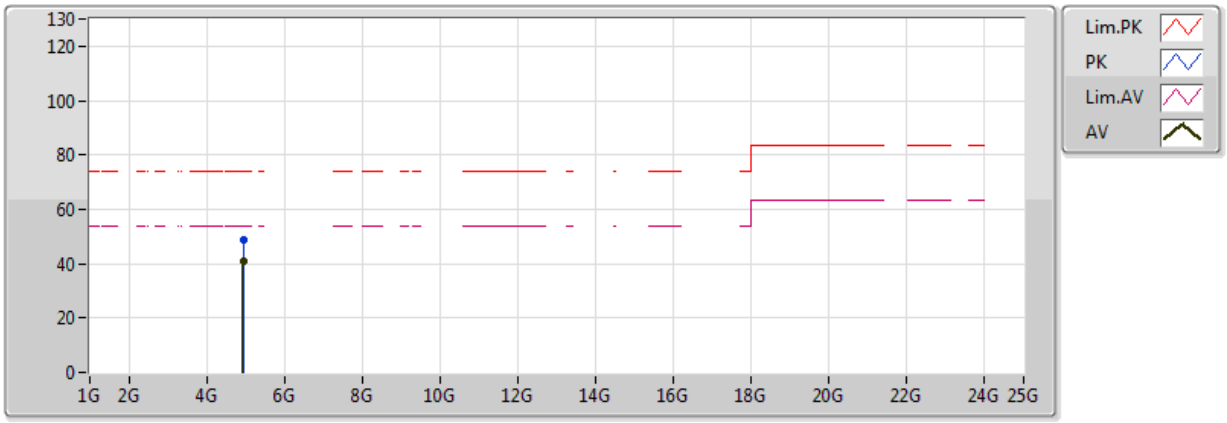
## 2480MHz_TX


EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 4.9601G | 44.17 | 54.00 | -9.83 | 2.59 | 3 | Vertical | 26 | 1.45 | - | 41.58 | 31.53 | 5.56 | 34.49 |
| PK | 4.95977G | 50.53 | 74.00 | -23.47 | 2.59 | 3 | Vertical | 26 | 1.45 | - | 47.94 | 31.53 | 5.56 | 34.49 |

## BT-BR(1Mbps)

## 2480MHz_TX

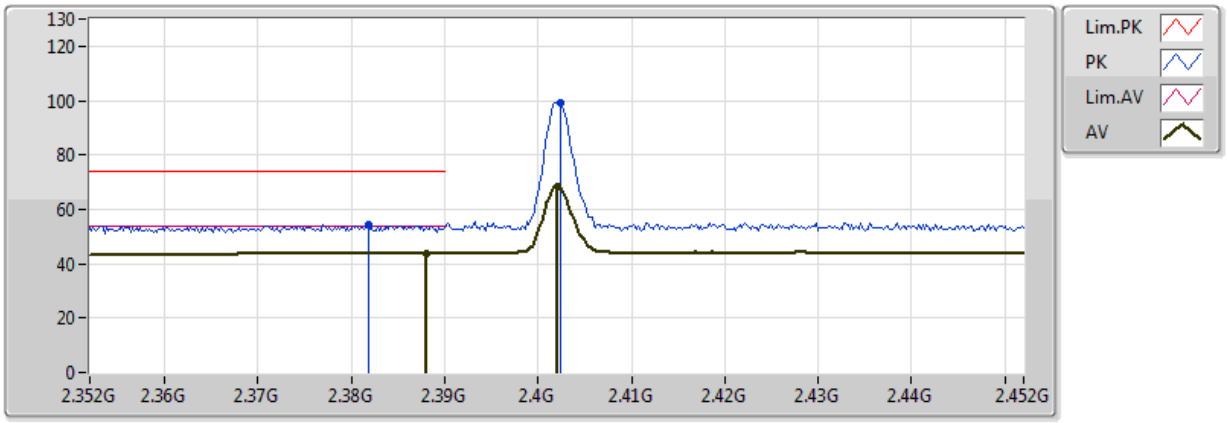



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 4.96009G | 40.82 | 54.00 | -13.18 | 2.59 | 3 | Horizontal | 349 | 1.28 | - | 38.22 | 31.53 | 5.56 | 34.49 |
| PK | 4.96037G | 48.83 | 74.00 | -25.17 | 2.59 | 3 | Horizontal | 349 | 1.28 | - | 46.24 | 31.53 | 5.56 | 34.49 |

## BT-EDR(2Mbps)

## 2402MHz_TX

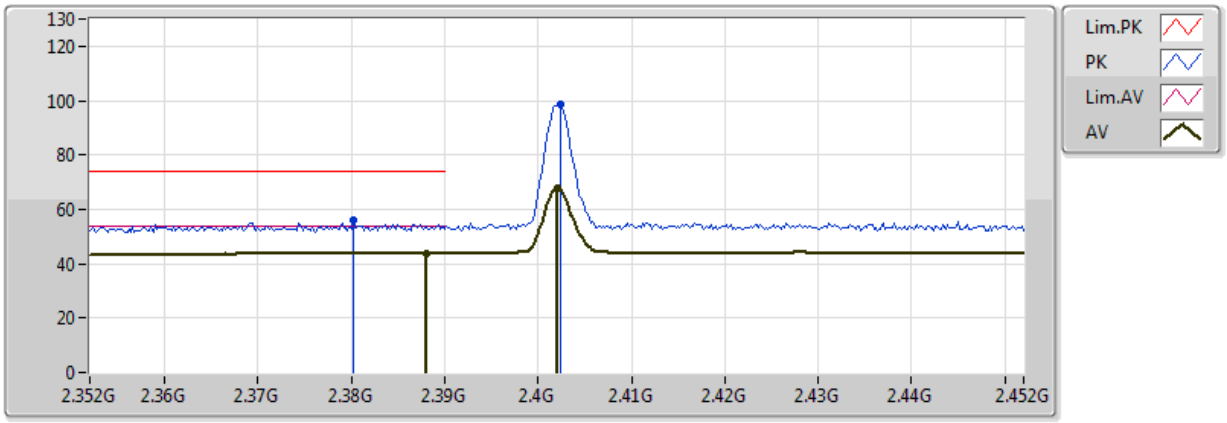



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.388G | 43.78 | 54.00 | -10.22 | 30.93 | 3 | Vertical | 6 | 2.15 | - | 12.85 | 27.31 | 3.62 | - |
| AV | 2.402G | 68.48 | Inf | -Inf | 30.98 | 3 | Vertical | 6 | 2.15 | - | 37.50 | 27.35 | 3.63 | - |
| PK | 2.3818G | 54.24 | 74.00 | -19.76 | 30.91 | 3 | Vertical | 6 | 2.15 | - | 23.33 | 27.29 | 3.61 | - |
| PK | 2.4024G | 99.19 | Inf | -Inf | 30.98 | 3 | Vertical | 6 | 2.15 | - | 68.21 | 27.35 | 3.63 | - |

## BT-EDR(2Mbps)

## 2402MHz_TX

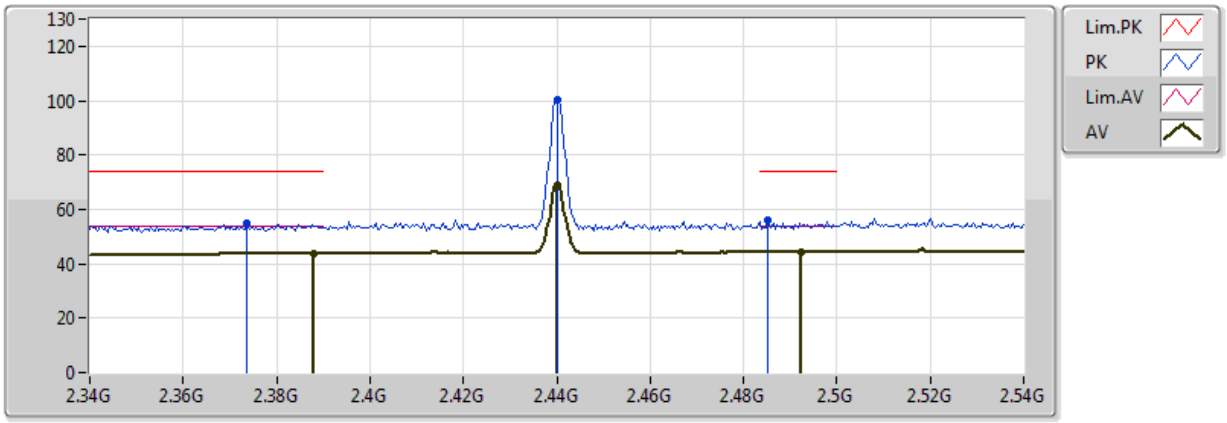



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.388G | 43.78 | 54.00 | -10.22 | 30.93 | 3 | Horizontal | 359 | 2.45 | - | 12.85 | 27.31 | 3.62 | - |
| AV | 2.402G | 67.91 | Inf | -Inf | 30.98 | 3 | Horizontal | 359 | 2.45 | - | 36.94 | 27.35 | 3.63 | - |
| PK | 2.3802G | 55.92 | 74.00 | -18.08 | 30.90 | 3 | Horizontal | 359 | 2.45 | - | 25.02 | 27.29 | 3.61 | - |
| PK | 2.4024G | 98.45 | Inf | -Inf | 30.98 | 3 | Horizontal | 359 | 2.45 | - | 67.47 | 27.35 | 3.63 | - |

## BT-EDR(2Mbps)

## 2440MHz_TX

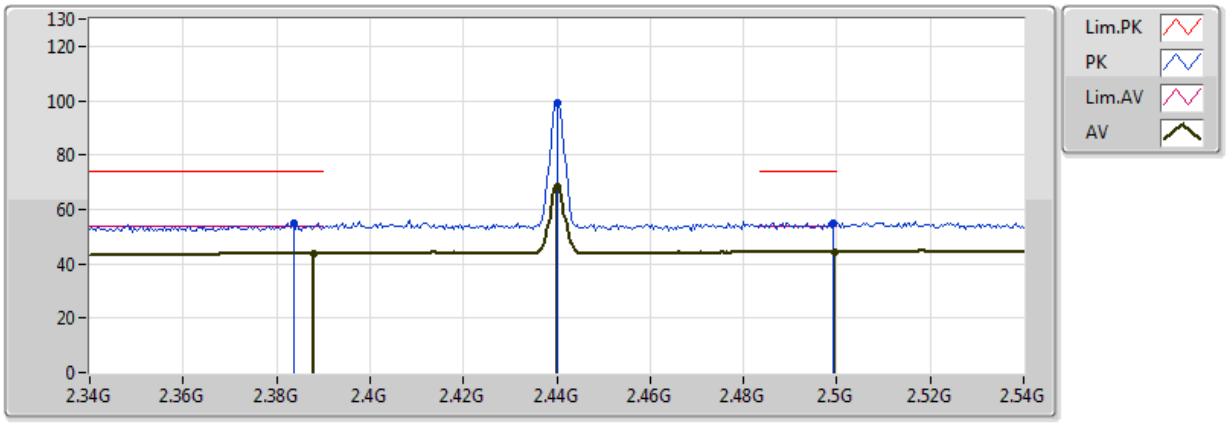



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.388G | 43.84 | 54.00 | -10.16 | 30.93 | 3 | Vertical | 10 | 1.99 | - | 12.91 | 27.31 | 3.62 | - |
| AV | 2.4924G | 44.50 | 54.00 | -9.50 | 31.30 | 3 | Vertical | 10 | 1.99 | - | 13.20 | 27.58 | 3.72 | - |
| AV | 2.44G | 69.09 | Inf | -Inf | 31.11 | 3 | Vertical | 10 | 1.99 | - | 37.97 | 27.44 | 3.67 | - |
| PK | 2.3736G | 54.86 | 74.00 | -19.14 | 30.88 | 3 | Vertical | 10 | 1.99 | - | 23.98 | 27.27 | 3.61 | - |
| PK | 2.4852G | 56.17 | 74.00 | -17.83 | 31.28 | 3 | Vertical | 10 | 1.99 | - | 24.89 | 27.56 | 3.72 | - |
| PK | 2.44G | 100.47 | Inf | -Inf | 31.11 | 3 | Vertical | 10 | 1.99 | - | 69.36 | 27.44 | 3.67 | - |

## BT-EDR(2Mbps)

## 2440MHz_TX

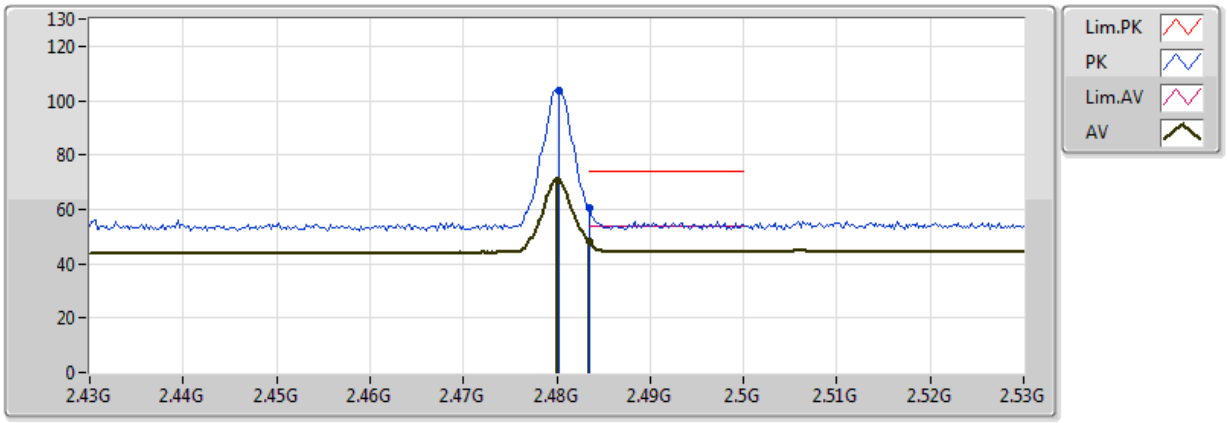



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.388G | 43.80 | 54.00 | -10.20 | 30.93 | 3 | Horizontal | 360 | 2.65 | - | 12.87 | 27.31 | 3.62 | - |
| AV | 2.4996G | 44.35 | 54.00 | -9.65 | 31.33 | 3 | Horizontal | 360 | 2.65 | - | 13.02 | 27.60 | 3.73 | - |
| AV | 2.44G | 68.36 | Inf | -Inf | 31.11 | 3 | Horizontal | 360 | 2.65 | - | 37.24 | 27.44 | 3.67 | - |
| PK | 2.3836G | 54.99 | 74.00 | -19.01 | 30.91 | 3 | Horizontal | 360 | 2.65 | - | 24.07 | 27.30 | 3.62 | - |
| PK | 2.4992G | 55.08 | 74.00 | -18.92 | 31.33 | 3 | Horizontal | 360 | 2.65 | - | 23.75 | 27.60 | 3.73 | - |
| PK | 2.44G | 98.95 | Inf | -Inf | 31.11 | 3 | Horizontal | 360 | 2.65 | - | 67.84 | 27.44 | 3.67 | - |

## BT-EDR(2Mbps)

## 2480MHz_TX

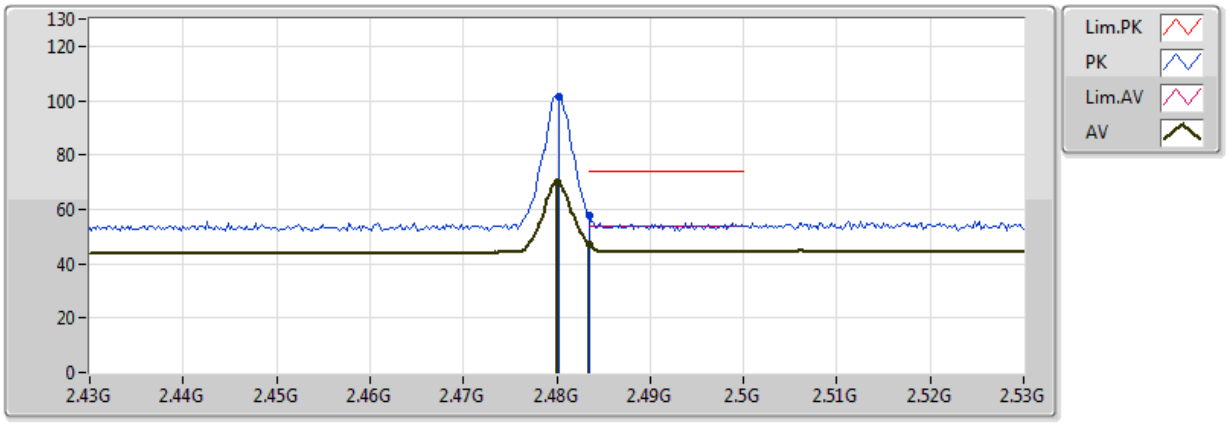



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.483502G | 48.25 | 54.00 | -5.75 | 31.27 | 3 | Vertical | 9 | 2.22 | - | 16.98 | 27.56 | 3.71 | - |
| AV | 2.48G | 70.82 | Inf | -Inf | 31.26 | 3 | Vertical | 9 | 2.22 | - | 39.57 | 27.55 | 3.71 | - |
| PK | 2.483502G | 60.31 | 74.00 | -13.69 | 31.27 | 3 | Vertical | 9 | 2.22 | - | 29.03 | 27.56 | 3.71 | - |
| PK | 2.4802G | 103.83 | Inf | -Inf | 31.26 | 3 | Vertical | 9 | 2.22 | - | 72.58 | 27.55 | 3.71 | - |

## BT-EDR(2Mbps)

## 2480MHz_TX

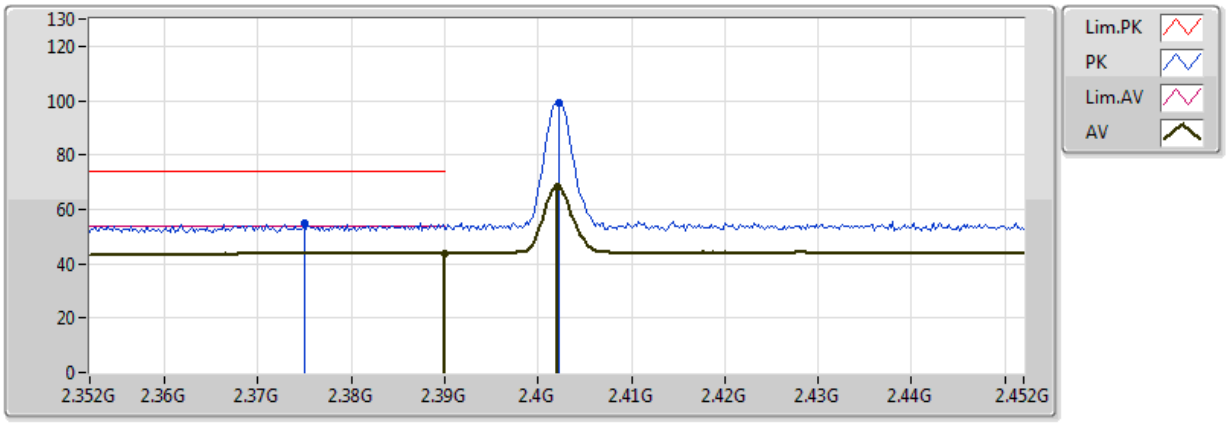



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.483502G | 47.28 | 54.00 | -6.72 | 31.27 | 3 | Horizontal | 356 | 2.32 | - | 16.01 | 27.56 | 3.71 | - |
| AV | 2.48G | 69.79 | Inf | -Inf | 31.26 | 3 | Horizontal | 356 | 2.32 | - | 38.53 | 27.55 | 3.71 | - |
| PK | 2.483502G | 57.50 | 74.00 | -16.50 | 31.27 | 3 | Horizontal | 356 | 2.32 | - | 26.23 | 27.56 | 3.71 | - |
| PK | 2.4802G | 101.47 | Inf | -Inf | 31.26 | 3 | Horizontal | 356 | 2.32 | - | 70.21 | 27.55 | 3.71 | - |

## BT-EDR(3Mbps)

## 2402MHz_TX

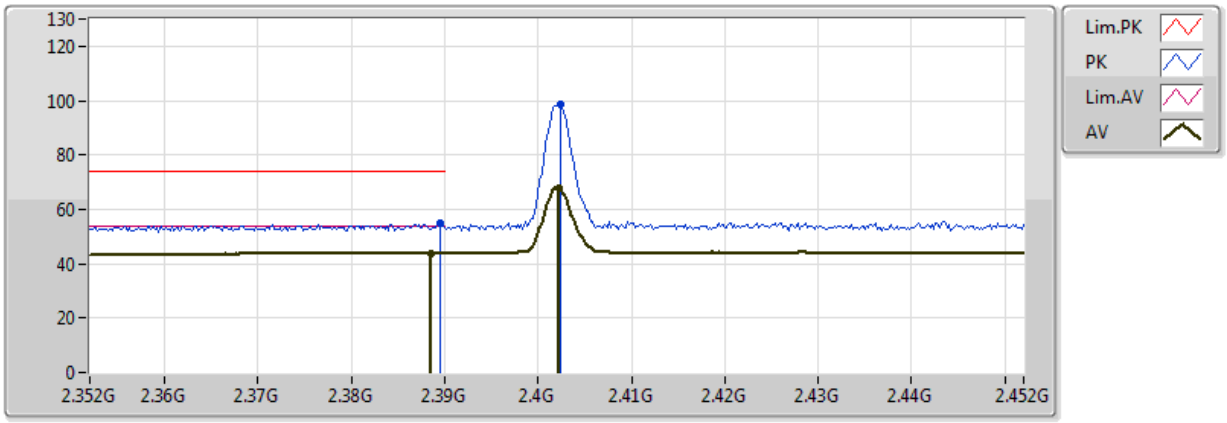



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.39G | 43.77 | 54.00 | -10.23 | 30.93 | 3 | Vertical | 7 | 2.17 | - | 12.83 | 27.31 | 3.62 | - |
| AV | 2.402G | 68.32 | Inf | -Inf | 30.98 | 3 | Vertical | 7 | 2.17 | - | 37.34 | 27.35 | 3.63 | - |
| PK | 2.375G | 54.96 | 74.00 | -19.04 | 30.88 | 3 | Vertical | 7 | 2.17 | - | 24.08 | 27.27 | 3.61 | - |
| PK | 2.4022G | 99.05 | Inf | -Inf | 30.98 | 3 | Vertical | 7 | 2.17 | - | 68.08 | 27.35 | 3.63 | - |

## BT-EDR(3Mbps)

## 2402MHz_TX

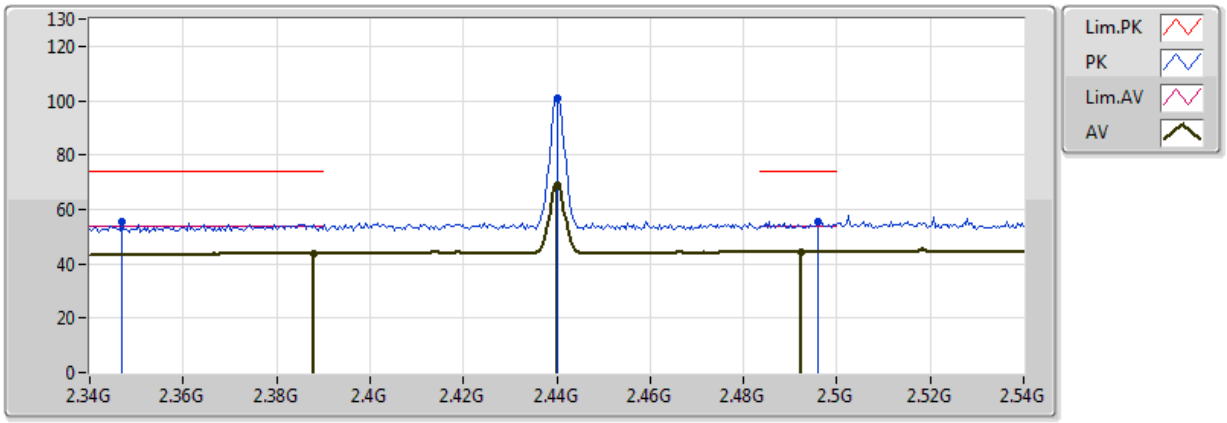



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.3886G | 43.79 | 54.00 | -10.21 | 30.93 | 3 | Horizontal | 0 | 2.71 | - | 12.86 | 27.31 | 3.62 | - |
| AV | 2.4022G | 68.05 | Inf | -Inf | 30.98 | 3 | Horizontal | 0 | 2.71 | - | 37.07 | 27.35 | 3.63 | - |
| PK | 2.3896G | 54.79 | 74.00 | -19.21 | 30.93 | 3 | Horizontal | 0 | 2.71 | - | 23.85 | 27.31 | 3.62 | - |
| PK | 2.4024G | 98.38 | Inf | -Inf | 30.98 | 3 | Horizontal | 0 | 2.71 | - | 67.40 | 27.35 | 3.63 | - |

## BT-EDR(3Mbps)

## 2440MHz_TX

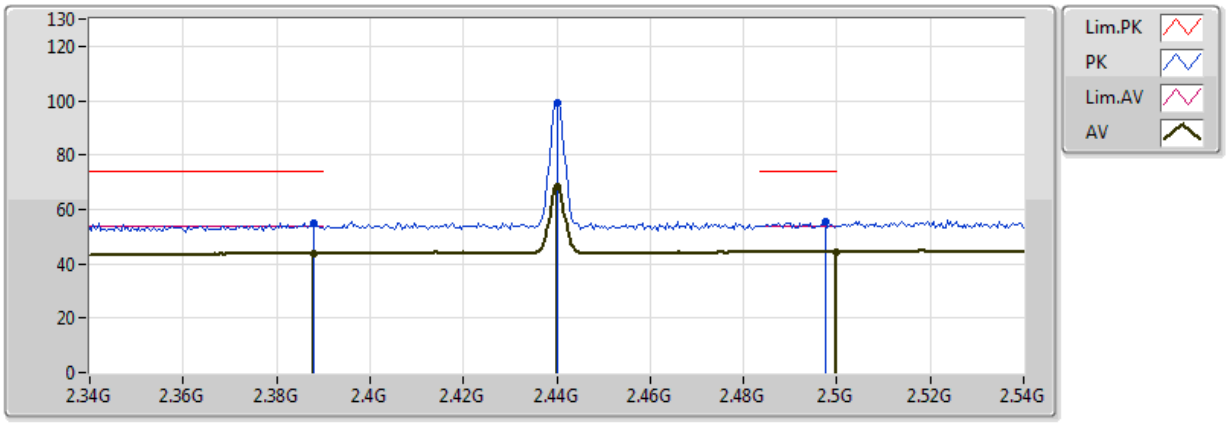



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.388G | 43.81 | 54.00 | -10.19 | 30.93 | 3 | Vertical | 12 | 2.09 | - | 12.88 | 27.31 | 3.62 | - |
| AV | 2.4924G | 44.46 | 54.00 | -9.54 | 31.30 | 3 | Vertical | 12 | 2.09 | - | 13.15 | 27.58 | 3.72 | - |
| AV | 2.44G | 69.07 | Inf | -Inf | 31.11 | 3 | Vertical | 12 | 2.09 | - | 37.95 | 27.44 | 3.67 | - |
| PK | 2.3468G | 55.22 | 74.00 | -18.78 | 30.78 | 3 | Vertical | 12 | 2.09 | - | 24.44 | 27.20 | 3.58 | - |
| PK | 2.496G | 55.35 | 74.00 | -18.65 | 31.32 | 3 | Vertical | 12 | 2.09 | - | 24.03 | 27.59 | 3.73 | - |
| PK | 2.44G | 100.71 | Inf | -Inf | 31.11 | 3 | Vertical | 12 | 2.09 | - | 69.59 | 27.44 | 3.67 | - |

## BT-EDR(3Mbps)

## 2440MHz_TX

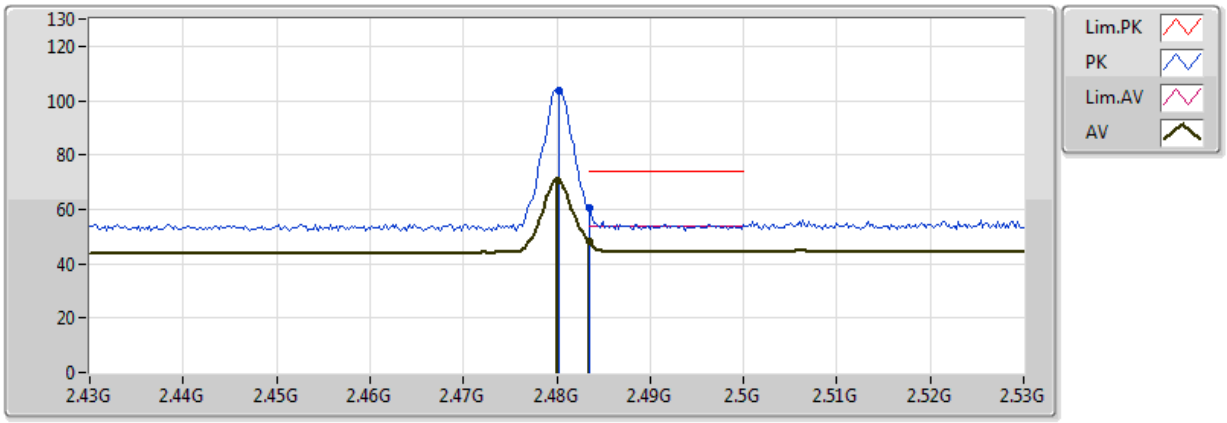



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.388G | 43.81 | 54.00 | -10.19 | 30.93 | 3 | Horizontal | 359 | 2.57 | - | 12.88 | 27.31 | 3.62 | - |
| AV | 2.5G | 44.37 | 54.00 | -9.63 | 31.33 | 3 | Horizontal | 359 | 2.57 | - | 13.04 | 27.60 | 3.73 | - |
| AV | 2.44G | 68.16 | Inf | -Inf | 31.11 | 3 | Horizontal | 359 | 2.57 | - | 37.04 | 27.44 | 3.67 | - |
| PK | 2.388G | 55.13 | 74.00 | -18.87 | 30.93 | 3 | Horizontal | 359 | 2.57 | - | 24.20 | 27.31 | 3.62 | - |
| PK | 2.4976G | 55.47 | 74.00 | -18.53 | 31.32 | 3 | Horizontal | 359 | 2.57 | - | 24.15 | 27.59 | 3.73 | - |
| PK | 2.44G | 99.06 | Inf | -Inf | 31.11 | 3 | Horizontal | 359 | 2.57 | - | 67.95 | 27.44 | 3.67 | - |

## BT-EDR(3Mbps)

## 2480MHz_TX

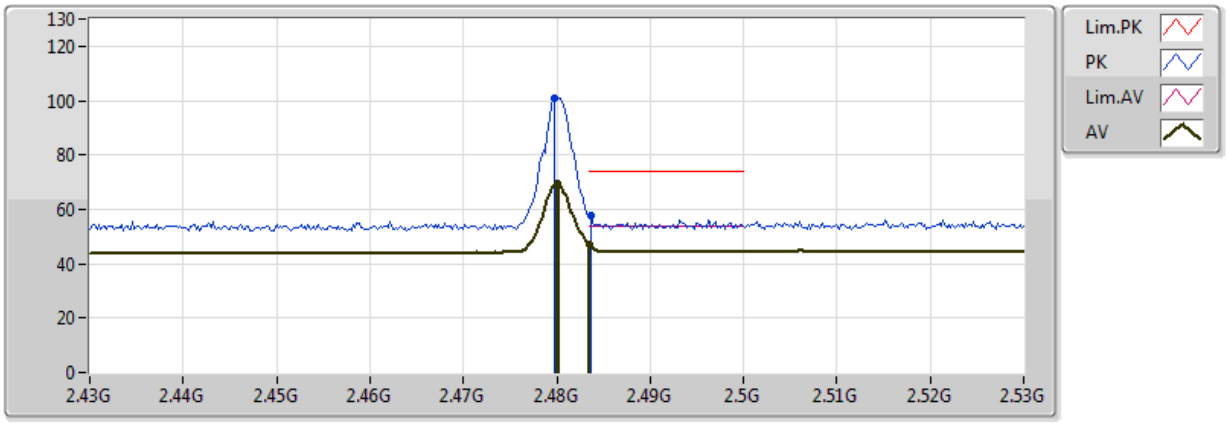



EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.483502G | 48.21 | 54.00 | -5.79 | 31.27 | 3 | Vertical | 12 | 2.24 | - | 16.94 | 27.56 | 3.71 | - |
| AV | 2.48G | 70.70 | Inf | -Inf | 31.26 | 3 | Vertical | 12 | 2.24 | - | 39.44 | 27.55 | 3.71 | - |
| PK | 2.483502G | 60.74 | 74.00 | -13.26 | 31.27 | 3 | Vertical | 12 | 2.24 | - | 29.47 | 27.56 | 3.71 | - |
| PK | 2.4802G | 103.59 | Inf | -Inf | 31.26 | 3 | Vertical | 12 | 2.24 | - | 72.33 | 27.55 | 3.71 | - |

## BT-EDR(3Mbps)

## 2480MHz_TX




EUT=X

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| AV | 2.483502G | 47.07 | 54.00 | -6.93 | 31.27 | 3 | Horizontal | 357 | 1.89 | - | 15.80 | 27.56 | 3.71 | - |
| AV | 2.48G | 69.36 | Inf | -Inf | 31.26 | 3 | Horizontal | 357 | 1.89 | - | 38.10 | 27.55 | 3.71 | - |
| PK | 2.4836G | 57.77 | 74.00 | -16.23 | 31.27 | 3 | Horizontal | 357 | 1.89 | - | 26.50 | 27.56 | 3.71 | - |
| PK | 2.4798G | 101.09 | Inf | -Inf | 31.26 | 3 | Horizontal | 357 | 1.89 | - | 69.83 | 27.55 | 3.71 | - |