

# FCC Test Report

**Equipment** : cnPilot e430W Indoor  
**Brand Name** :  Cambium Networks  
**Model No.** : cnPilot e430W Indoor  
**FCC ID** : Z8H89FT0039  
**Standard** : 47 CFR FCC Part 15.247  
**Operating Band** : 2400 MHz – 2483.5 MHz  
**Function** : ☒ Point-to-multipoint; ☐ Point-to-point  
**Applicant** : Cambium Networks Inc.  
3800 Golf Road, Suite 360 Rolling Meadows, IL 60008,  
USA  
**Manufacturer** : XAVi Technologies Corporation  
22F., No.69, Sec. 2, Guangfu Rd., Sanchong Dist., New  
Taipei City 241, Taiwan (R.O.C.)

The product sample received on Nov. 01, 2017 and completely tested on Dec. 29, 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 INTERNATIONAL INC., the test report shall not be reproduced except in full.

  
Phoenix Chen / Assistant Manager



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## 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:<br>FCC 15.209 | Complied |

## Revision History

[illegible]

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

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

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

**Note:**

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

### 1.1.2 Antenna Information

| Ant. | Port | Brand | Model Name | Antenna Type | Connector |
|------|------|-------|------------|--------------|-----------|
| 1    | 1    | -     | -          | PIFA Antenna | I-PEX     |
| 2    | 2    | -     | -          | PIFA Antenna | I-PEX     |
| 3    | 1    | -     | -          | PIFA Antenna | I-PEX     |
| 4    | 2    | -     | -          | PIFA Antenna | I-PEX     |
| 5    | 1    | -     | -          | PIFA Antenna | I-PEX     |

| Ant. | Gain (dBi) |                 |             |      |
|------|------------|-----------------|-------------|------|
|      | 2.4G       | 5G              |             | BT   |
|      |            | Non-Beamforming | Beamforming |      |
| 1    | 2.98       | -               | -           | -    |
| 2    | 2.98       | -               | -           | -    |
| 3    | -          | 4.05            | 3.01        | -    |
| 4    | -          | 4.05            | 3.01        | -    |
| 5    | -          | -               | -           | 2.79 |

Note 1: The EUT has five antennas.

**For 2.4GHz function:**

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

Ant. 1 (port 1) or Ant. 2 (port 2) can be used as transmitting/receiving antenna alone and simultaneously.

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

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

**For 5GHz function:**

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

Ant. 3 (port 1) or Ant. 4 (port 2) can be used as transmitting/receiving antenna alone and simultaneously.

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

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

**For BT function:**

For BT-LE/BR/EDR (1TX/1RX)

Only Ant. 5 (port 1) can be used as transmitting/receiving antenna.

**1.1.3 EUT Information**

| Identify EUT                        |   |
|-------------------------------------|---|
| RF Chip                             | IPQ4019(Qualcomm)   |
| Operational Condition               |   |
| EUT Power Type                      | From AC Adapter   |
| Type of EUT                         |   |
| <input checked="" type="checkbox"/> | Stand-alone   |
| <input type="checkbox"/>            | Combined (EUT where the radio part is fully integrated within another device) |
|                                     | Combined Equipment - Brand Name / Model No.: ...                              |
| <input type="checkbox"/>            | Plug-in radio (EUT intended for a variety of host systems)                    |
|                                     | Host System - Brand Name / Model No.: ...                                     |
| <input type="checkbox"/>            | Other:  |

**1.1.4 Mode Test Duty Cycle**

| Mode          | DC    | DCF(dB) | T(s)   | VBW(Hz) $\geq 1/T$ |
|---------------|-------|---------|--------|--------------------|
| BT-BR(1Mbps)  | 0.759 | 1.198   | 2.898m | 1k                 |
| BT-EDR(2Mbps) | 0.789 | 1.029   | 2.906m | 1k                 |
| BT-EDR(3Mbps) | 0.752 | 1.238   | 2.907m | 1k                 |

## 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                           |        |  |                      |
|--|--------|--|----------------------|
| <input checked="" type="checkbox"/>        | HWA YA | ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)    |                      |
|  |        | TEL : 886-3-327-3456   | FAX : 886-3-327-0973 |
| Test site Designation No. TW1190 with FCC. |        |  |                      |
| <input type="checkbox"/>                   | JHUBEI | ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.) |                      |
|  |        | TEL : 886-3-656-9065   | FAX : 886-3-656-9085 |
| Test site Designation No. TW0006 with FCC. |        |  |                      |

| Test Condition              | Test Site No. | Test Engineer | Test Environment | Test Date   |
|-----------------------------|---------------|---------------|------------------|-------------|
| RF Conducted                | TH01-HY       | Gary          | 22.7°C / 57%     | 07/Nov/2017 |
| Radiated                    | 03CH09-HY     | Andy          | 23.5°C / 65%     | 14/Nov/2017 |
| Radiated<br>(9kHz to 30MHz) | 03CH02-HY     | Andy          | 23.5°C / 65%     | 29/Dec/2017 |
| AC Conduction               | CO04-HY       | Eric          | 23.5°C / 65%     | 13/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 (9kHz ~ 30MHz)     | 3.0 dB      | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 4.3 dB      | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 3.9 dB      | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 3.5 dB      | Confidence levels of 95% |
| Conducted Emission                   | 1.3 dB      | Confidence levels of 95% |

## 2 Test Configuration of EUT

### 2.1 Test Condition

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

### 2.2 Test Channel Mode

|                       |                  |
|-----------------------|------------------|
| Test Software Version | QCARCT 3.0.265.0 |
|-----------------------|------------------|


| Mode          | Power Setting |
|---------------|---------------|
| BT-BR(1Mbps)  | -             |
| 2402MHz       | 8             |
| 2441MHz       | 8             |
| 2480MHz       | 8             |
| BT-EDR(2Mbps) | -             |
| 2402MHz       | 8             |
| 2441MHz       | 8             |
| 2480MHz       | 8             |
| BT-EDR(3Mbps) | -             |
| 2402MHz       | 8             |
| 2441MHz       | 8             |
| 2480MHz       | 8             |



## 2.3 The Worst Case Measurement Configuration

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

| The Worst Case Mode for Following Conformance Tests |  |
|---|--|
| <b>Tests Item</b>                                   | 20dB Bandwidth<br>Carrier Frequency Separation<br>Maximum Conducted Output Power<br>Number of Hopping Frequencies<br>Hopping Bandedge<br>Time of Occupancy (Dwell Time)<br>Emissions in Non-restricted Frequency Bands |
| <b>Test Condition</b>                               | Conducted measurement at transmit chains   |

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

## 2.4 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                                | Notebook       | DELL       | E5410       | DoC    |
| 4                                | Adapter for NB | DELL       | HA65NM130   | DoC    |
| 5                                | AC adaptor     | CWT        | KPL-050S-VI | -      |
| 6                                | Client         | -          | E430W       | -      |

Note: Support equipment No.5 & 6 was provided by customer.

| Support Equipment – Radiated Emission |            |            |             |        |
|---------------------------------------|------------|------------|-------------|--------|
| No.                                   | Equipment  | Brand Name | Model Name  | FCC ID |
| 1                                     | AC adaptor | CWT        | KPL-050S-VI | -      |

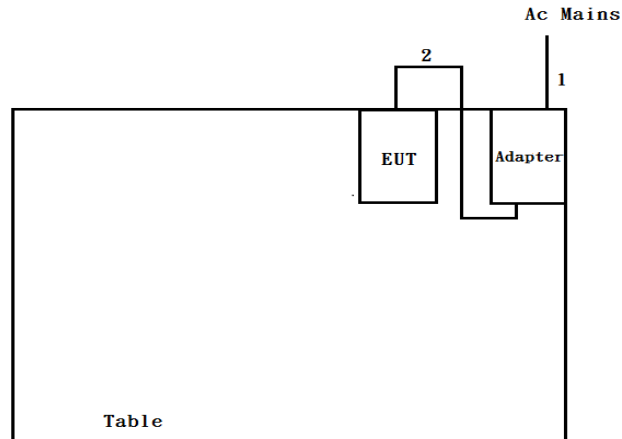
Note: Support equipment No.1 was provided by customer.

| Support Equipment – AC Conduction |            |            |             |        |
|-----------------------------------|------------|------------|-------------|--------|
| No.                               | Equipment  | Brand Name | Model Name  | FCC ID |
| 1                                 | AC adaptor | CWT        | KPL-050S-VI | -      |

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

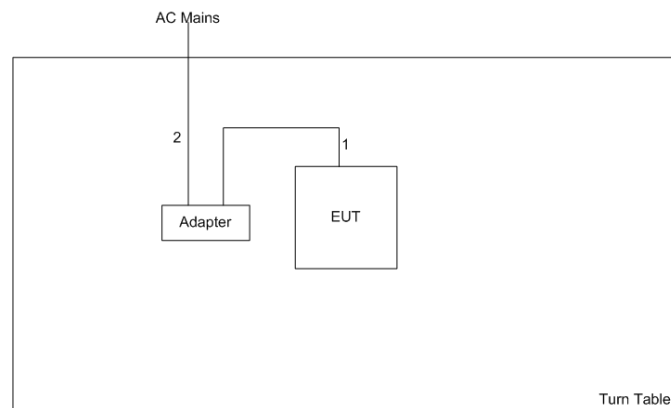
## 2.5 Test Setup Diagram

**Test Setup Diagram – AC Line Conducted Emission Test**



| Item | Connection    | Shielded | Length(m) | Remark |
|------|---------------|----------|-----------|--------|
| 1    | AC power line | No       | 1.8       | -      |
| 2    | DC power line | No       | 1         | -      |

**Test Setup Diagram - Radiated Test**



| Item | Connection    | Shielded | Length(m) | Remark |
|------|---------------|----------|-----------|--------|
| 1    | DC power line | No       | 1         | -      |
| 2    | AC power line | No       | 1.8       | -      |

### 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.

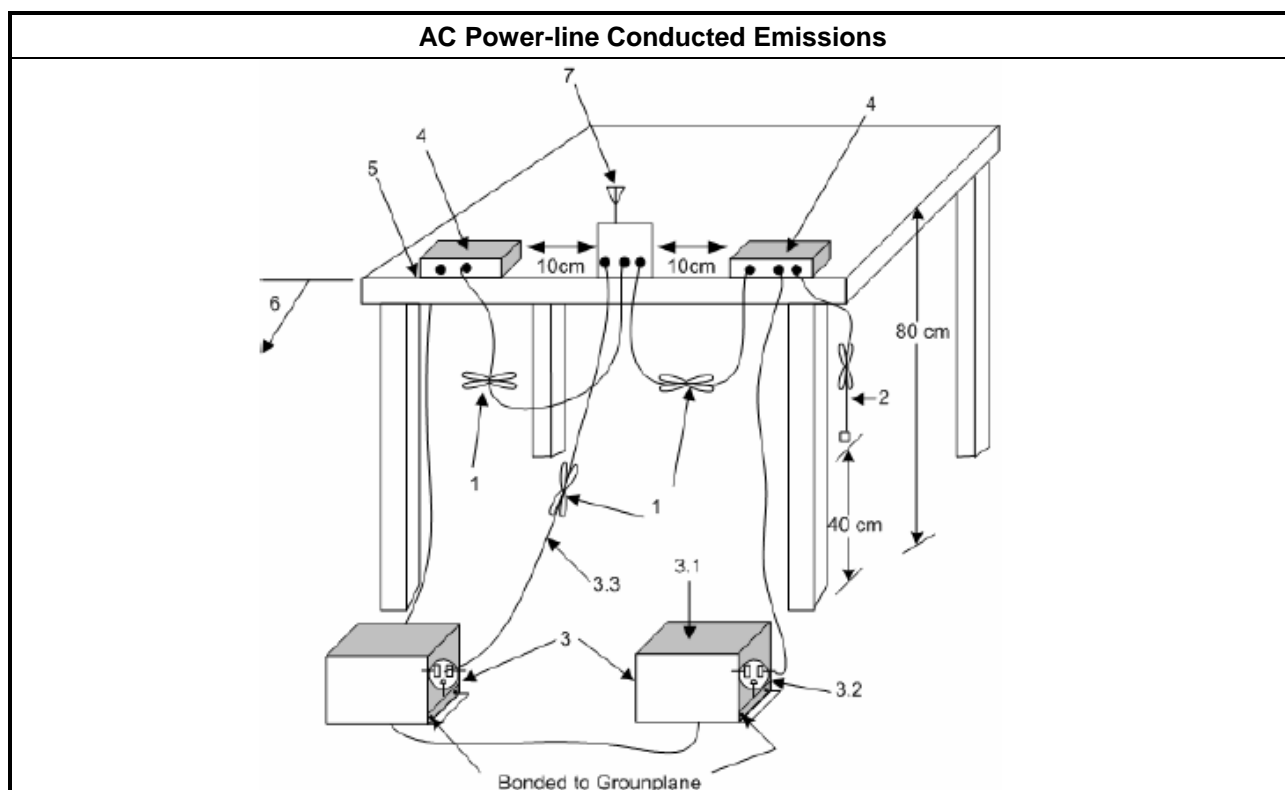
### 3.1.2 Measuring Instruments

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

### 3.1.3 Test Procedures

| Test Method   |
|---|
| <ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.</li> </ul> |

### 3.1.4 Test Setup



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

Refer as Appendix A

## 3.2 20dB Bandwidth and Carrier Frequency Separation

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

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

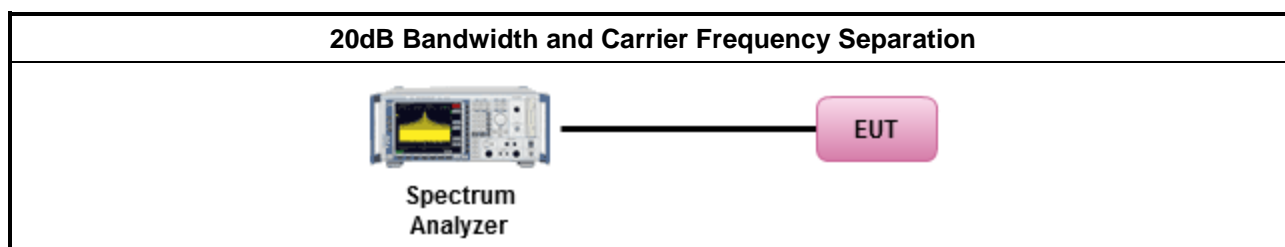
### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

| Test Method   |
|---|
| ▪ Refer as ANSI C63.10-2013, clause 6.9.2 for 20 dB bandwidth measurement.              |
| ▪ Refer as ANSI C63.10-2013, clause 7.8.2 for carrier frequency separation measurement. |

### 3.2.4 Test Setup



### 3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

### 3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

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

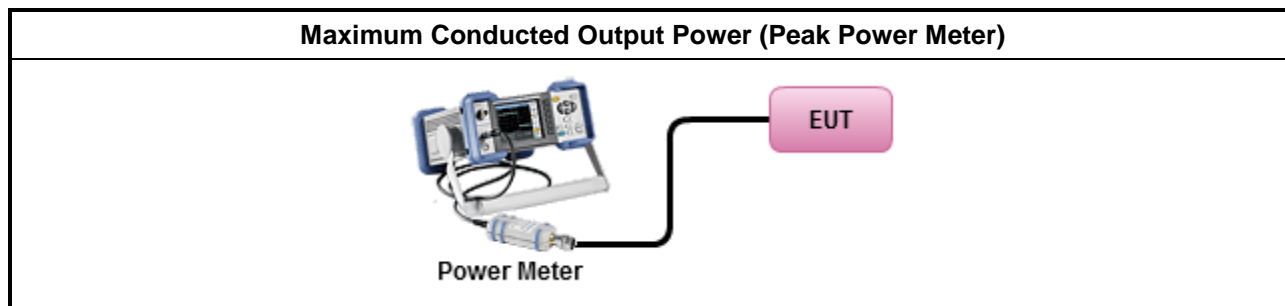
#### 3.3.2 Measuring Instruments

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



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

Refer as Appendix C

### 3.4 Number of Hopping Frequencies and Hopping Bandedge

#### 3.4.1 Number of Hopping Frequencies Limit

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

#### 3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

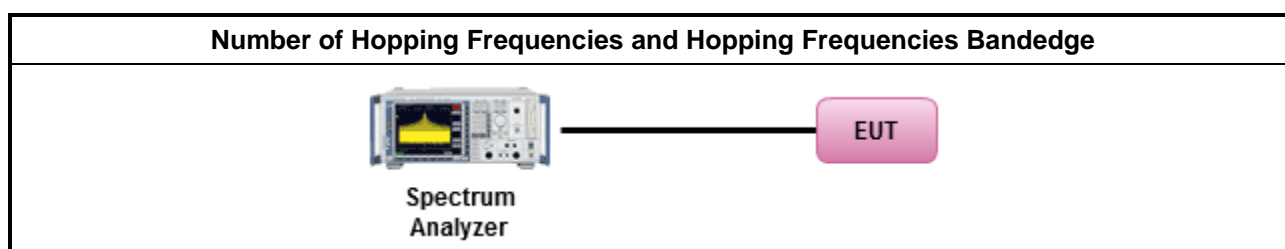
#### 3.4.3 Measuring Instruments

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

#### 3.4.4 Test Procedures

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

#### 3.4.5 Test Setup



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

Refer as Appendix D

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

Refer as Appendix D

### 3.5 Time of Occupancy (Dwell Time)

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

| Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems |  |
|--|--|
| ▪ 902-928 MHz Band:  |  |
|  | ▪ $N \geq 50$ ; 0.4s in 20s period                 |
|  | ▪ $50 > N \geq 25$ ; 0.4s in 10s period            |
| ▪ 2400-2483.5 MHz Band:  |  |
|  | ▪ $N \geq 75$ ; 0.4s in $N \times 0.4$ period      |
|  | ▪ $75 > N \geq 15$ ; 0.4s in $N \times 0.4$ period |
| ▪ 5725-5850 MHz Band:  |  |
|  | ▪ $N \geq 75$ ; 0.4s in 30s period                 |
| N: Number of Hopping Frequencies                                   |  |

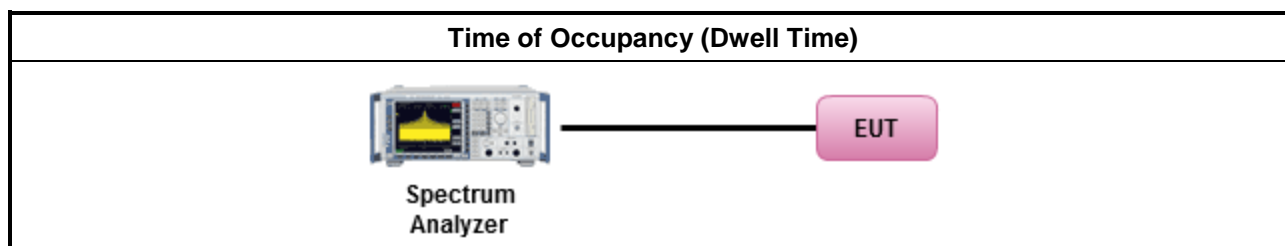
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

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

#### 3.5.4 Test Setup



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

Refer as Appendix E



### 3.6 Emissions in Non-restricted Frequency Bands

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

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

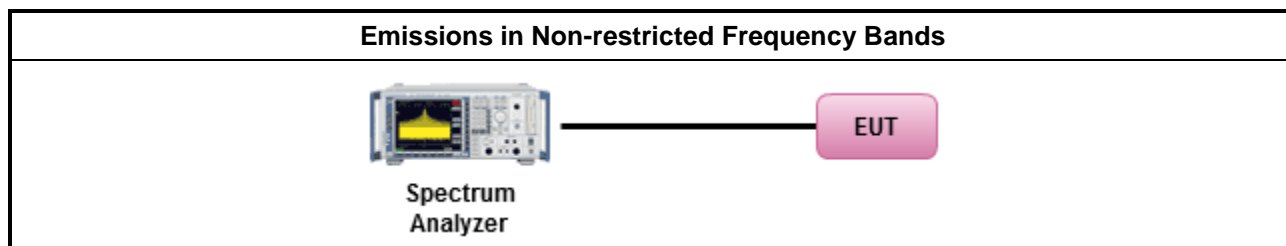
#### 3.6.2 Measuring Instruments

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

#### 3.6.3 Test Procedures

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

#### 3.6.4 Test Setup



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

Refer as Appendix F

### 3.7 Emissions in Restricted Frequency Bands

#### 3.7.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

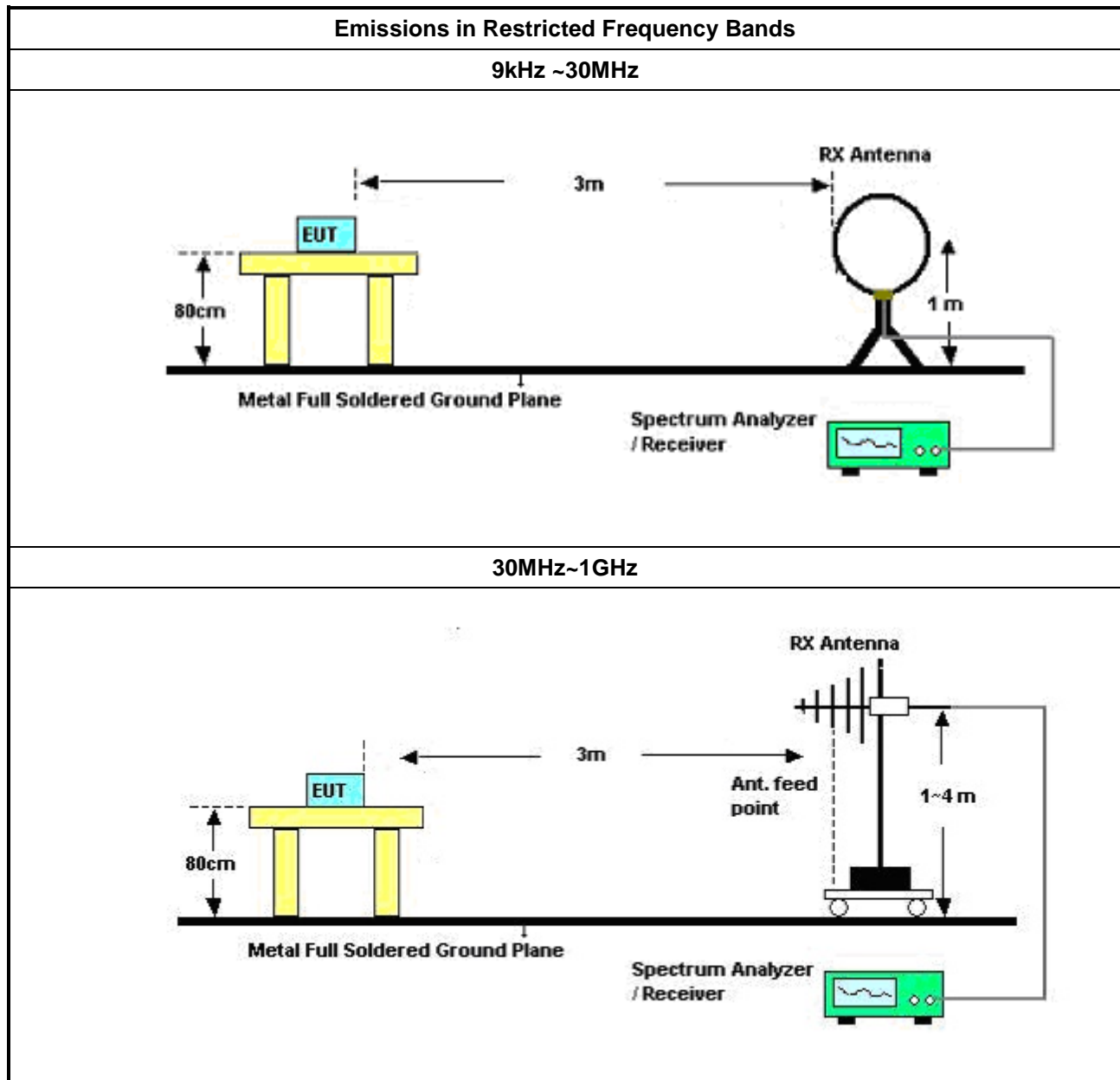
#### 3.7.2 Measuring Instruments

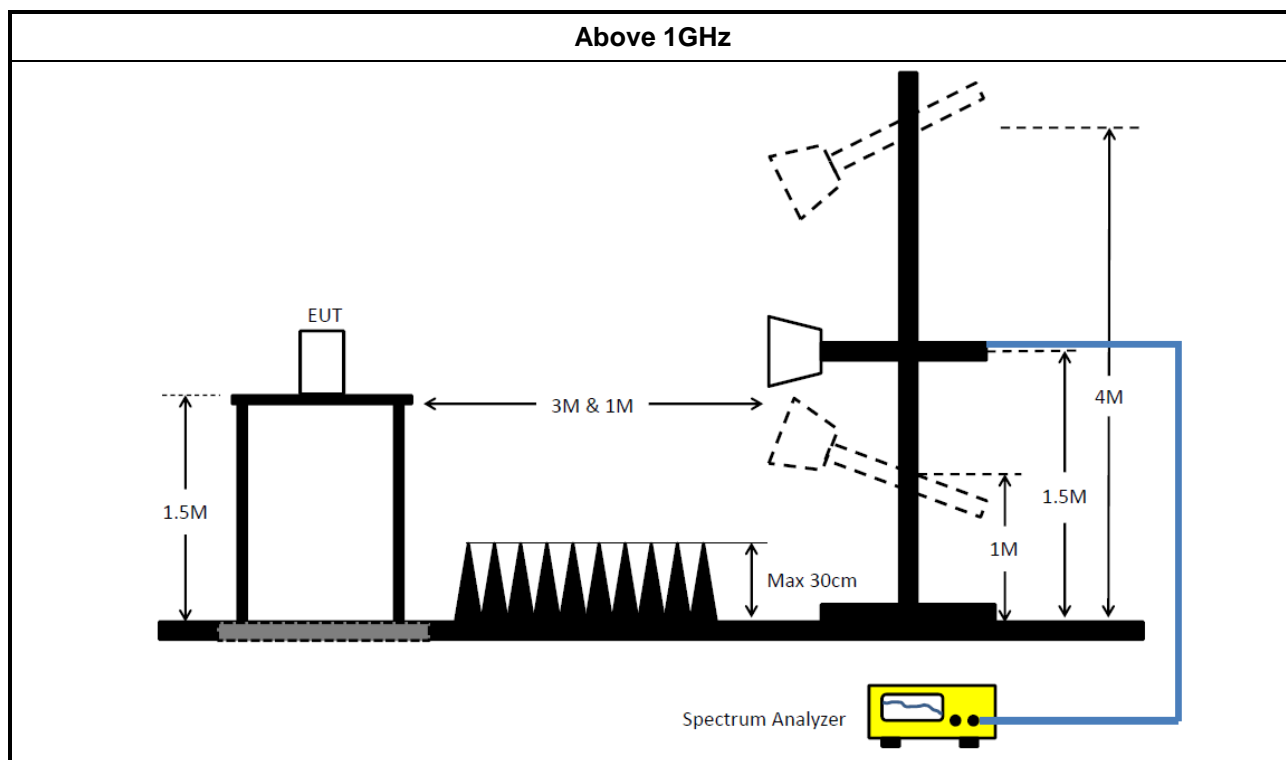
Refer a test equipment and calibration data table in this test report.

#### 3.7.3 Test Procedures

| Test Method |  |
|-------------|--|
|             | ▪ 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





### 3.7.5 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        | 06/Oct/2017      | 05/Oct/2018          |
| AC POWER                          | APC          | AFC-11005G | F310050055     | 47Hz~63Hz<br>5~300V | NCR              | NCR                  |
| Impuls Begrenzer<br>Pulse Limiter | R&S          | ESH3-Z2    | 100921         | 10 kHz ~ 30 MHz     | 12/Oct/2017      | 11/Oct/2018          |

**NCR : Non-Calibration Require**

### Instrument for Radiated Test

| Instrument               | Manufacturer   | Model No.           | Serial No.  | Spec.              | Calibration Date | Calibration Due Date |
|--------------------------|----------------|---------------------|-------------|--------------------|------------------|----------------------|
| 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M              | 03CH03-HY   | 30MHz ~ 1GHz<br>3m | 31/Oct/2017      | 30/Oct/2018          |
| 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M              | 03CH03-HY   | 1GHz ~ 18GHz<br>3m | 01/Nov/2017      | 31/Oct/2018          |
| Amplifier                | HP             | 8447D               | 2944A08033  | 10kHz ~ 1.3GHz     | 19/Apr/2017      | 18/Apr/2018          |
| Amplifier                | Keysight       | 83017A              | MY53270196  | 1GHz ~ 26.5GHz     | 31/Aug/2017      | 30/Aug/2018          |
| Spectrum                 | R&S            | FSV40               | 101500      | 9kHz ~ 40GHz       | 28/Jun/2017      | 27/Jun/2018          |
| Receiver                 | R&S            | ESR3                | 102052      | 9kHz ~ 3.6GHz      | 29/Apr/2017      | 28/Apr/2018          |
| RF Cable-R03m            | Jye Bao        | RG142               | CB021       | 9kHz ~ 1GHz        | 26/Jan/2017      | 25/Jan/2018          |
| RF Cable-high            | SUHNER         | SUCOFLEX106         | CB222       | 1GHz ~ 40GHz       | 26/Jan/2017      | 25/Jan/2018          |
| Bilog Antenna            | SCHAFFNER      | CBL 6112B           | 22237       | 30MHz ~ 1GHz       | 08/Jul/2017      | 07/Jul/2018          |
| Horn Antenna             | SCHWARZBECK    | BBHA9170            | BBHA9170154 | 18GHz ~ 40GHz      | 06/Feb/ 2017     | 05/Feb/2018          |
| Horn Antenna             | SCHWARZBECK    | BBHA9120D           | 1531        | 1GHz ~ 18GHz       | 25/Apr/ 2017     | 24/Apr/2018          |
| Amplifier                | MITEQ          | JS44-18004000-33-8P | 1840917     | 18GHz ~ 40GHz      | 06/Fed/2017      | 05/Fed/2018          |

**Instrument for Radiated Test - 9kHz to 30MHz**

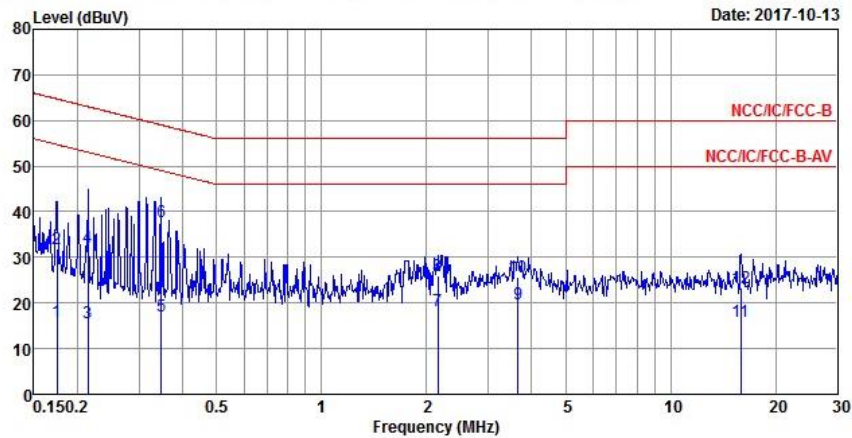
| Instrument               | Manufacturer   | Model No. | Serial No. | Spec.              | Calibration Date | Calibration Due Date |
|--------------------------|----------------|-----------|------------|--------------------|------------------|----------------------|
| Spectrum Analyzer        | R&S            | FSP 40    | 101500     | 10Hz~40GHz         | 28/Jun/2017      | 27/Jun/2018          |
| 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M    | 03CH02-HY  | 30MHz ~ 1GHz<br>3m | 20/Oct/2017      | 19/Oct/2018          |
| 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M    | 03CH02-HY  | 1GHz ~ 18GHz<br>3m | 27/Oct/2017      | 26/Oct/2018          |
| Amplifier                | Agilent        | 8447D     | 2944A11149 | 100kHz ~ 1.3GHz    | 29/Jun/2017      | 28/Jun/2018          |
| RF Cable-R03m            | Jye Bao        | RG142     | CB017      | 9kHz ~ 1GHz        | 26/Jan/2017      | 25/Jan/2018          |
| Receiver                 | R&S            | ESU3      | 102052     | 9kHz ~ 3.6GHz      | 29/Apr/2017      | 28/Apr/2018          |
| Loop Antenna             | TESEQ          | HLA 6120  | 24155      | 9 kHz~30 MHz       | 03/Feb/2017      | 02/Feb/2018          |

**Instrument for Conducted Test**

| Instrument        | Manufacturer  | Model No.    | Serial No. | Spec.           | Calibration Date | Calibration Due Date |
|-------------------|---------------|--------------|------------|-----------------|------------------|----------------------|
| Spectrum Analyzer | R&S           | FSV 40       | 101013     | 10Hz~40GHz      | 30/Dec/2016      | 29/Dec/2017          |
| Power Sensor      | Anritsu       | MA2411B      | 1027452    | 300MHz ~ 40GHz  | 24/Feb/2017      | 23/Feb/2018          |
| Power Meter       | Anritsu       | ML2495A      | 1124009    | 300MHz ~ 40GHz  | 24/Feb/2017      | 23/Feb/2018          |
| Signal Generator  | R&S           | SMR40        | 100116     | 10MHz ~ 40GHz   | 27/Jul/2017      | 26/Jul/2018          |
| RF Cable-0.2m     | HUBER+SUHNER  | SUCOFLEX_104 | MY677/3    | 30MHz ~ 26.5GHz | 25/Aug/2017      | 24/Aug/2018          |
| RF Cable-0.2m     | HUBER+SUHNER  | SUCOFLEX_104 | MY678/3    | 30MHz ~ 26.5GHz | 25/Aug/2017      | 24/Aug/2018          |
| RF Cable-0.5m     | HUBER+SUHNER  | SUCOFLEX_104 | MY10717/4  | 30MHz ~ 26.5GHz | 25/Aug/2017      | 24/Aug/2018          |
| Bluetooth Tester  | ROHDE&SCHWARZ | CBT          | 101021     | 2.4GHz          | 28/Apr/2017      | 27/Apr/2018          |

## AC Power-line Conducted Emissions Result

|                    |              |             |         |
|--------------------|--------------|-------------|---------|
| Operating Mode     | 1            | Power Phase | Neutral |
| Operating Function | Adapter mode |             |         |

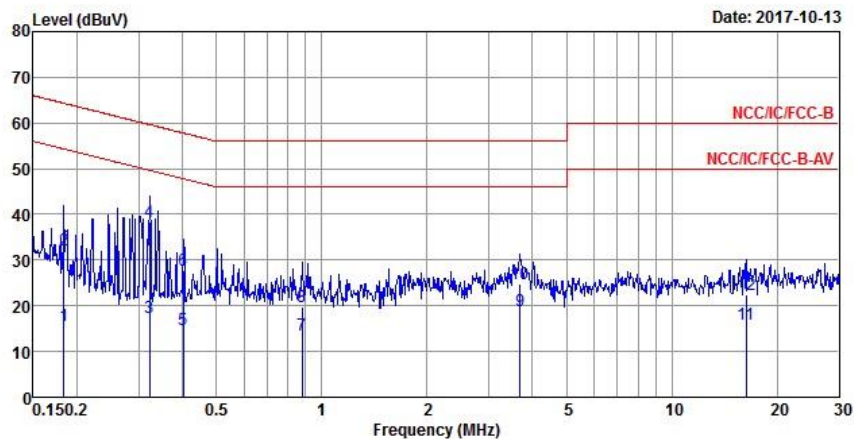


|       | Freq     | Level | Over   | Limit | Read  | LISN   | Cable |         |
|-------|----------|-------|--------|-------|-------|--------|-------|---------|
|       | MHz      | dBuV  | Limit  | Line  | Level | Factor | Loss  | Remark  |
|       |          |       | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1     | 0.17491  | 15.91 | -38.81 | 54.72 | 6.27  | 9.64   | 0.00  | Average |
| 2     | 0.17491  | 31.78 | -32.94 | 64.72 | 22.14 | 9.64   | 0.00  | QP      |
| 3     | 0.21392  | 15.76 | -37.29 | 53.05 | 6.09  | 9.67   | 0.00  | Average |
| 4     | 0.21392  | 32.31 | -30.74 | 63.05 | 22.64 | 9.67   | 0.00  | QP      |
| 5     | 0.34830  | 17.04 | -31.96 | 49.00 | 7.40  | 9.64   | 0.00  | Average |
| 6 MAX | 0.34830  | 37.66 | -21.34 | 59.00 | 28.02 | 9.64   | 0.00  | QP      |
| 7     | 2.15531  | 18.16 | -27.84 | 46.00 | 8.50  | 9.66   | 0.00  | Average |
| 8     | 2.15531  | 26.00 | -30.00 | 56.00 | 16.34 | 9.66   | 0.00  | QP      |
| 9     | 3.66111  | 19.88 | -26.12 | 46.00 | 10.18 | 9.70   | 0.00  | Average |
| 10    | 3.66111  | 25.72 | -30.28 | 56.00 | 16.02 | 9.70   | 0.00  | QP      |
| 11    | 15.88538 | 15.96 | -34.04 | 50.00 | 6.12  | 9.84   | 0.00  | Average |
| 12    | 15.88538 | 23.30 | -36.70 | 60.00 | 13.46 | 9.84   | 0.00  | 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 | Adapter mode |             |      |



|       | Freq     | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark  |
|-------|----------|-------|------------|------------|------------|-------------|------------|---------|
|       | MHz      | dBuV  | dB         | dBuV       | dBuV       | dB          | dB         |         |
| 1     | 0.18346  | 15.61 | -38.72     | 54.33      | 5.96       | 9.65        | 0.00       | Average |
| 2     | 0.18346  | 32.09 | -32.24     | 64.33      | 22.44      | 9.65        | 0.00       | QP      |
| 3     | 0.32169  | 17.40 | -32.26     | 49.66      | 7.73       | 9.67        | 0.00       | Average |
| 4 MAX | 0.32169  | 38.25 | -21.41     | 59.66      | 28.58      | 9.67        | 0.00       | QP      |
| 5     | 0.40187  | 14.62 | -33.19     | 47.81      | 4.94       | 9.68        | 0.00       | Average |
| 6     | 0.40187  | 27.61 | -30.20     | 57.81      | 17.93      | 9.68        | 0.00       | QP      |
| 7     | 0.88031  | 13.68 | -32.32     | 46.00      | 4.04       | 9.64        | 0.00       | Average |
| 8     | 0.88031  | 19.75 | -36.25     | 56.00      | 10.11      | 9.64        | 0.00       | QP      |
| 9     | 3.68056  | 18.87 | -27.13     | 46.00      | 9.10       | 9.77        | 0.00       | Average |
| 10    | 3.68056  | 24.82 | -31.18     | 56.00      | 15.05      | 9.77        | 0.00       | QP      |
| 11    | 16.31183 | 16.02 | -33.98     | 50.00      | 6.17       | 9.85        | 0.00       | Average |
| 12    | 16.31183 | 22.46 | -37.54     | 60.00      | 12.61      | 9.85        | 0.00       | 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<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|---------------|------------------|-----------------|----------|------------------|-----------------|
| 2.4-2.4835GHz | -                | -               | -        | -                | -               |
| BT-BR(1Mbps)  | 928.75k          | 907.046k        | 907KF1D  | 918.75k          | 878.311k        |
| BT-EDR(2Mbps) | 1.329M           | 1.218M          | 1M22G1D  | 1.244M           | 1.198M          |
| BT-EDR(3Mbps) | 1.314M           | 1.229M          | 1M23G1D  | 1.241M           | 1.202M          |

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

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

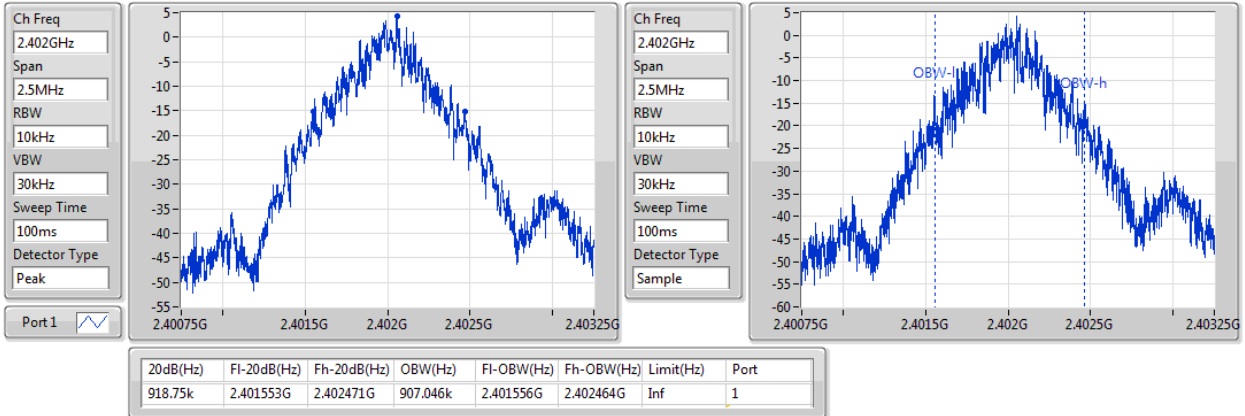
**Result**

| Mode          | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) |
|---------------|--------|---------------|---------------------|--------------------|
| BT-BR(1Mbps)  | -      | -             | -                   | -                  |
| 2402MHz       | Pass   | Inf           | 918.75k             | 907.046k           |
| 2441MHz       | Pass   | Inf           | 928.75k             | 878.311k           |
| 2480MHz       | Pass   | Inf           | 925k                | 885.807k           |
| BT-EDR(2Mbps) | -      | -             | -                   | -                  |
| 2402MHz       | Pass   | Inf           | 1.244M              | 1.198M             |
| 2441MHz       | Pass   | Inf           | 1.329M              | 1.213M             |
| 2480MHz       | Pass   | Inf           | 1.309M              | 1.218M             |
| BT-EDR(3Mbps) | -      | -             | -                   | -                  |
| 2402MHz       | Pass   | Inf           | 1.266M              | 1.202M             |
| 2441MHz       | Pass   | Inf           | 1.314M              | 1.218M             |
| 2480MHz       | Pass   | Inf           | 1.241M              | 1.229M             |

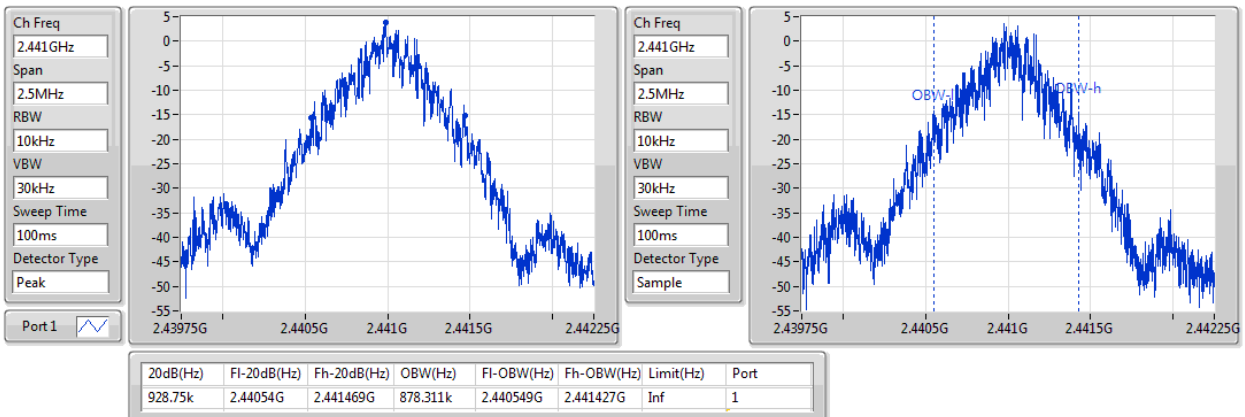
**Port X-N dB** = Port X 20dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

**BT-BR(1Mbps)**
**EBW**
**2402MHz**

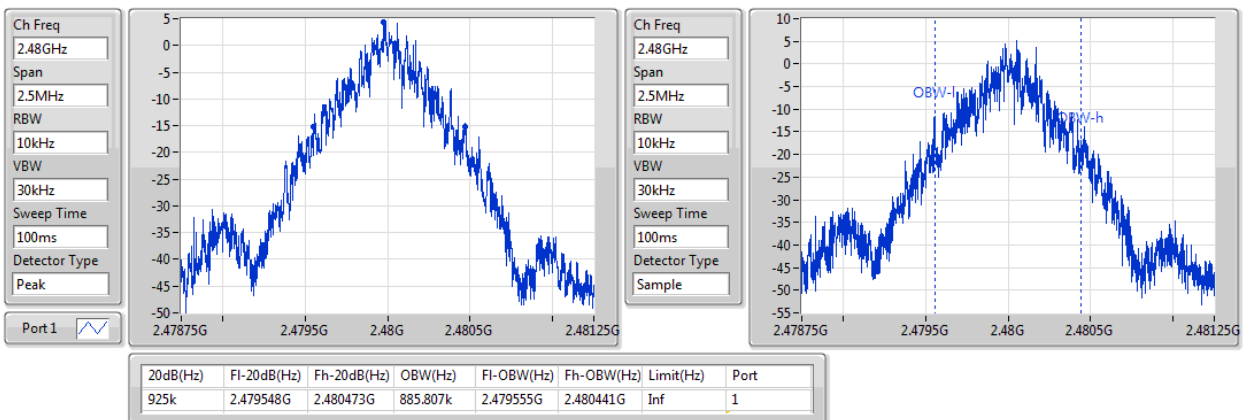
06/11/2017


**BT-BR(1Mbps)**
**EBW**
**2441MHz**

06/11/2017

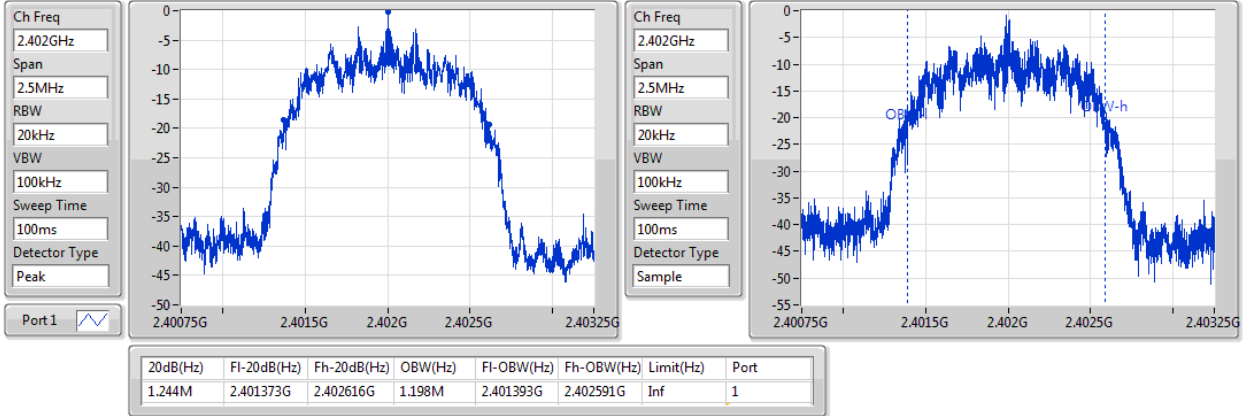

**BT-BR(1Mbps)**
**EBW**
**2480MHz**

06/11/2017

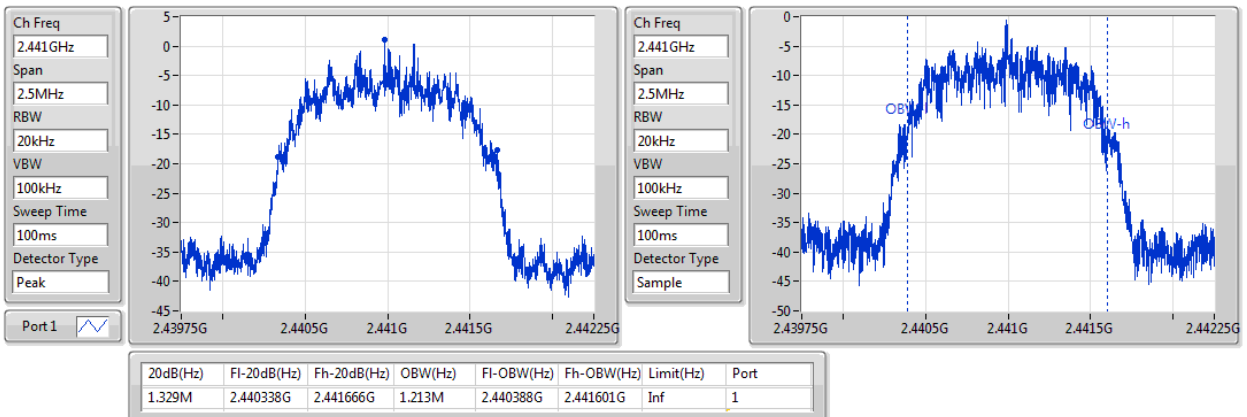


**BT-EDR(2Mbps)**
**EBW**
**2402MHz**

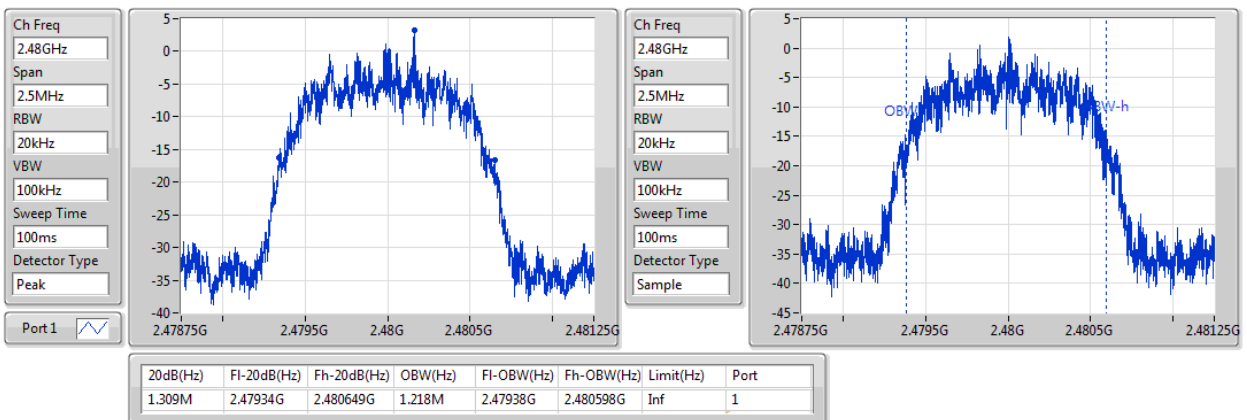
06/11/2017


**BT-EDR(2Mbps)**
**EBW**
**2441MHz**

06/11/2017

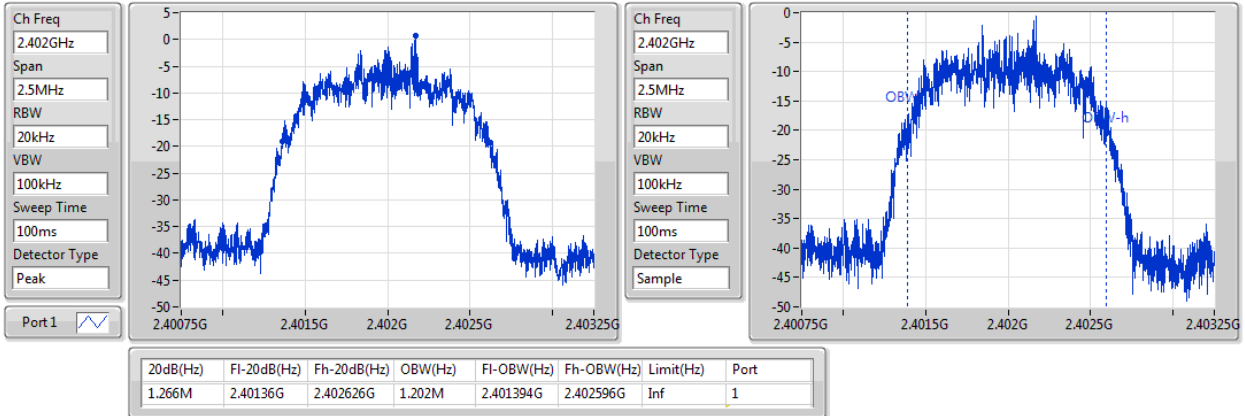

**BT-EDR(2Mbps)**
**EBW**
**2480MHz**

06/11/2017

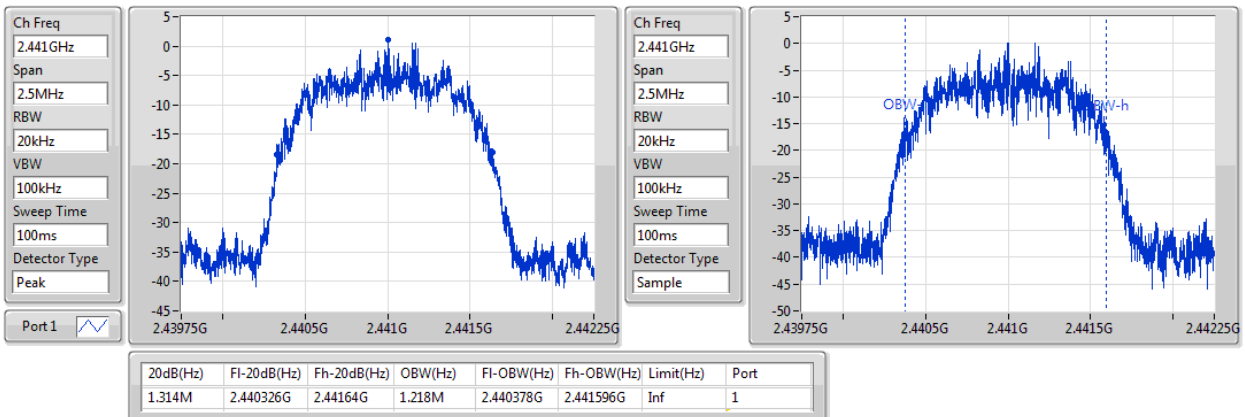


**BT-EDR(3Mbps)**
**EBW**
**2402MHz**

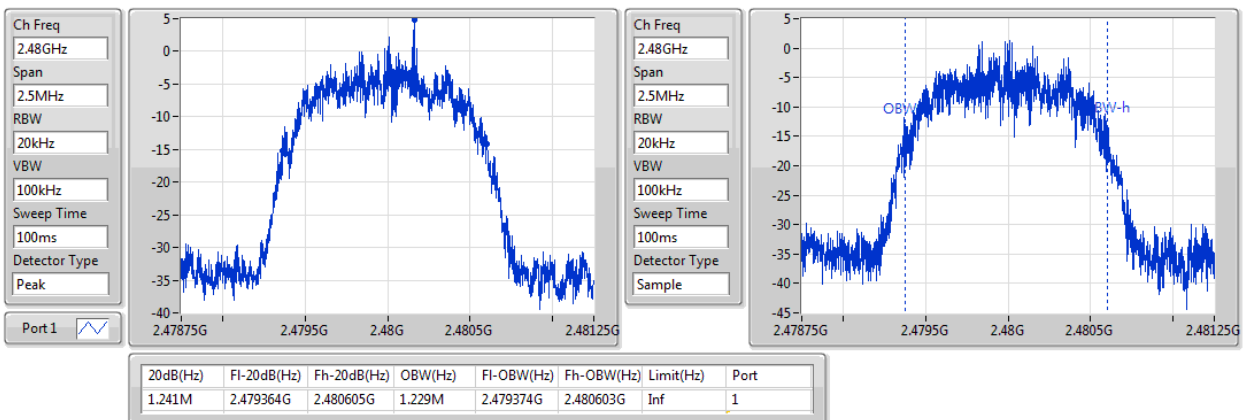
06/11/2017


**BT-EDR(3Mbps)**
**EBW**
**2441MHz**

06/11/2017


**BT-EDR(3Mbps)**
**EBW**
**2480MHz**

06/11/2017



**Summary**

| Mode          | Max-Space<br>(Hz) | Min-Space<br>(Hz) |
|---------------|-------------------|-------------------|
| 2.4-2.4835GHz | -                 | -                 |
| BT-BR(1Mbps)  | 994.5k            | 885k              |
| BT-EDR(2Mbps) | 1.0095M           | 1.0005M           |
| BT-EDR(3Mbps) | 1.161M            | 1.008M            |

**Result**

| Mode          | Result | Fl<br>(Hz) | Fh<br>(Hz) | Ch.Space<br>(Hz) | Limit<br>(Hz) |
|---------------|--------|------------|------------|------------------|---------------|
| BT-BR(1Mbps)  | -      | -          | -          | -                | -             |
| 2402MHz       | Pass   | 2.402167G  | 2.403162G  | 994.5k           | 611.8875k     |
| 2441MHz       | Pass   | 2.441056G  | 2.442009G  | 952.5k           | 618.5475k     |
| 2480MHz       | Pass   | 2.479169G  | 2.480054G  | 885k             | 616.05k       |
| BT-EDR(2Mbps) | -      | -          | -          | -                | -             |
| 2402MHz       | Pass   | 2.402001G  | 2.403003G  | 1.002M           | 828.504k      |
| 2441MHz       | Pass   | 2.44099G   | 2.442G     | 1.0095M          | 885.114k      |
| 2480MHz       | Pass   | 2.479005G  | 2.480006G  | 1.0005M          | 871.794k      |
| BT-EDR(3Mbps) | -      | -          | -          | -                | -             |
| 2402MHz       | Pass   | 2.402004G  | 2.403165G  | 1.161M           | 843.156k      |
| 2441MHz       | Pass   | 2.441001G  | 2.44216G   | 1.1595M          | 875.124k      |
| 2480MHz       | Pass   | 2.479158G  | 2.480166G  | 1.008M           | 826.506k      |

## BT-BR(1Mbps)

## Channel Separation

2.402G/2.403GHz



## BT-BR(1Mbps)

## Channel Separation

2.441G/2.442GHz



## BT-BR(1Mbps)

## Channel Separation

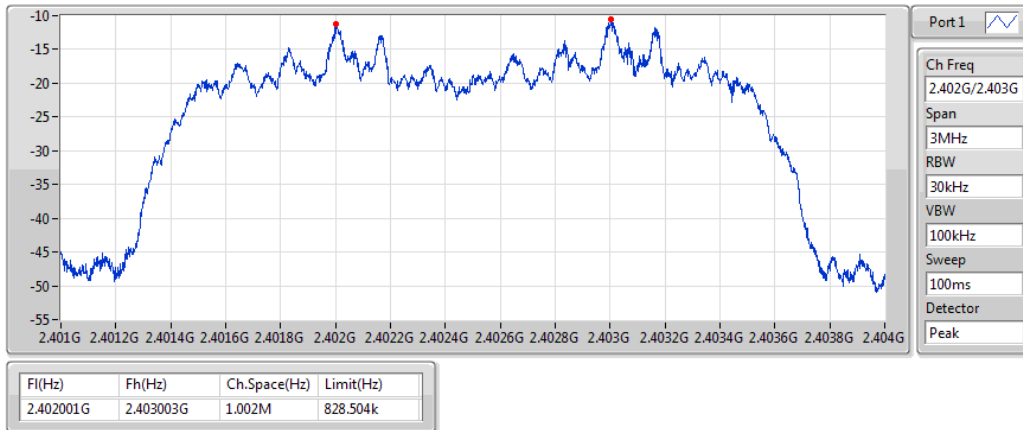
2.48G/2.479GHz



## BT-EDR(2Mbps)

## Channel Separation

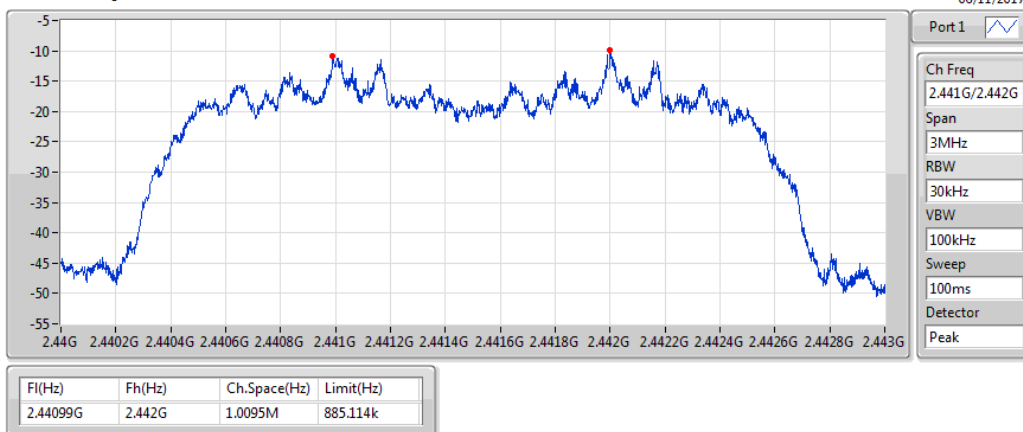
2.402G/2.403GHz



## BT-EDR(2Mbps)

## Channel Separation

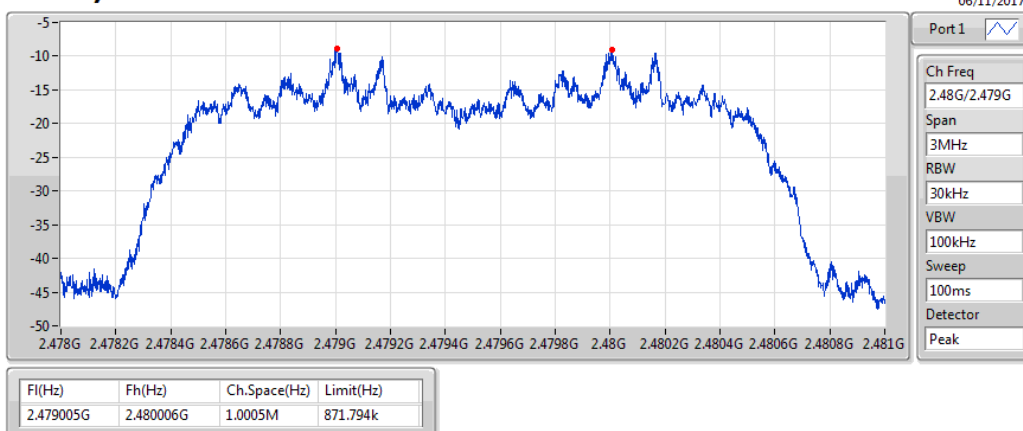
2.441G/2.442GHz



## BT-EDR(2Mbps)

## Channel Separation

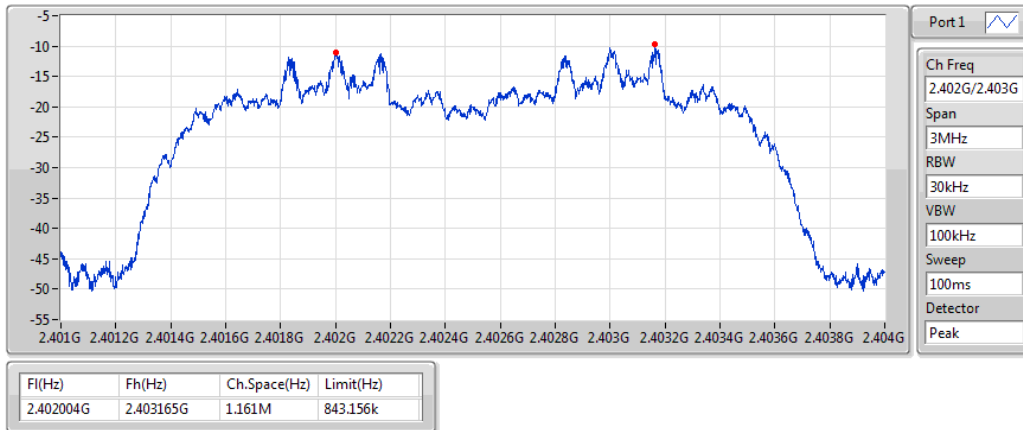
2.48G/2.479GHz



## BT-EDR(3Mbps)

## Channel Separation

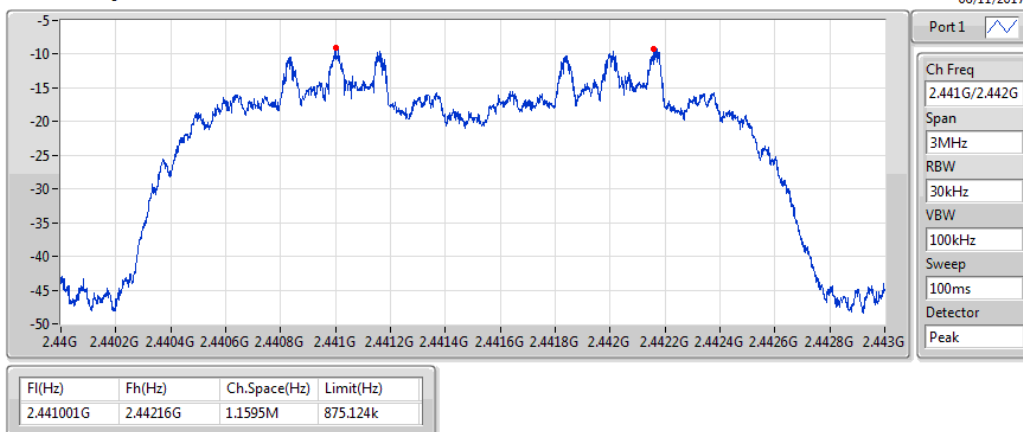
2.402G/2.403GHz



## BT-EDR(3Mbps)

## Channel Separation

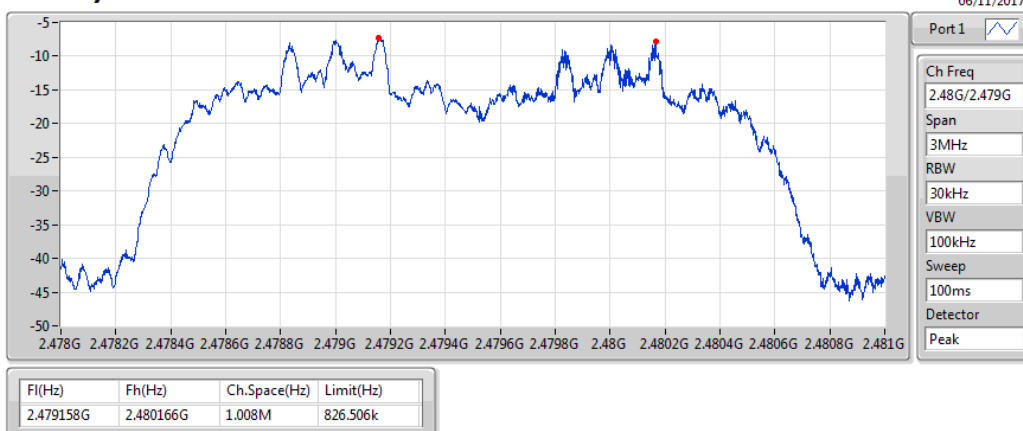
2.441G/2.442GHz



## BT-EDR(3Mbps)

## Channel Separation

2.48G/2.479GHz





**Summary**

| Mode          | Power<br>(dBm) | Power<br>(W) |
|---------------|----------------|--------------|
| 2.4-2.4835GHz | -              | -            |
| BT-BR(1Mbps)  | 7.54           | 0.00568      |
| BT-EDR(2Mbps) | 6.73           | 0.00471      |
| BT-EDR(3Mbps) | 6.93           | 0.00493      |

**Result**

| Mode          | Result | Gain<br>(dBi) | Power<br>(dBm) | Power Limit<br>(dBm) |
|---------------|--------|---------------|----------------|----------------------|
| BT-BR(1Mbps)  | -      | -             | -              | -                    |
| 2402MHz       | Pass   | 2.79          | 5.46           | 21.00                |
| 2441MHz       | Pass   | 2.79          | 6.70           | 21.00                |
| 2480MHz       | Pass   | 2.79          | 7.54           | 21.00                |
| BT-EDR(2Mbps) | -      | -             | -              | -                    |
| 2402MHz       | Pass   | 2.79          | 4.00           | 21.00                |
| 2441MHz       | Pass   | 2.79          | 5.66           | 21.00                |
| 2480MHz       | Pass   | 2.79          | 6.73           | 21.00                |
| BT-EDR(3Mbps) | -      | -             | -              | -                    |
| 2402MHz       | Pass   | 2.79          | 4.32           | 21.00                |
| 2441MHz       | Pass   | 2.79          | 5.91           | 21.00                |
| 2480MHz       | Pass   | 2.79          | 6.93           | 21.00                |

**Summary**

| Mode          | Power | Power   |
|---------------|-------|---------|
|               | (dBm) | (W)     |
| 2.4-2.4835GHz | -     | -       |
| BT-BR(1Mbps)  | 7.26  | 0.00532 |
| BT-EDR(2Mbps) | 4.85  | 0.00305 |
| BT-EDR(3Mbps) | 4.84  | 0.00305 |

**Result**

| Mode          | Result | Gain<br>(dBi) | Power<br>(dBm) | Power Limit<br>(dBm) |
|---------------|--------|---------------|----------------|----------------------|
| BT-BR(1Mbps)  | -      | -             | -              | -                    |
| 2402MHz       | Pass   | 2.79          | 5.03           | 21.00                |
| 2441MHz       | Pass   | 2.79          | 6.40           | 21.00                |
| 2480MHz       | Pass   | 2.79          | 7.26           | 21.00                |
| BT-EDR(2Mbps) | -      | -             | -              | -                    |
| 2402MHz       | Pass   | 2.79          | 1.56           | 21.00                |
| 2441MHz       | Pass   | 2.79          | 3.29           | 21.00                |
| 2480MHz       | Pass   | 2.79          | 4.85           | 21.00                |
| BT-EDR(3Mbps) | -      | -             | -              | -                    |
| 2402MHz       | Pass   | 2.79          | 1.51           | 21.00                |
| 2441MHz       | Pass   | 2.79          | 3.53           | 21.00                |
| 2480MHz       | Pass   | 2.79          | 4.84           | 21.00                |

**Summary**

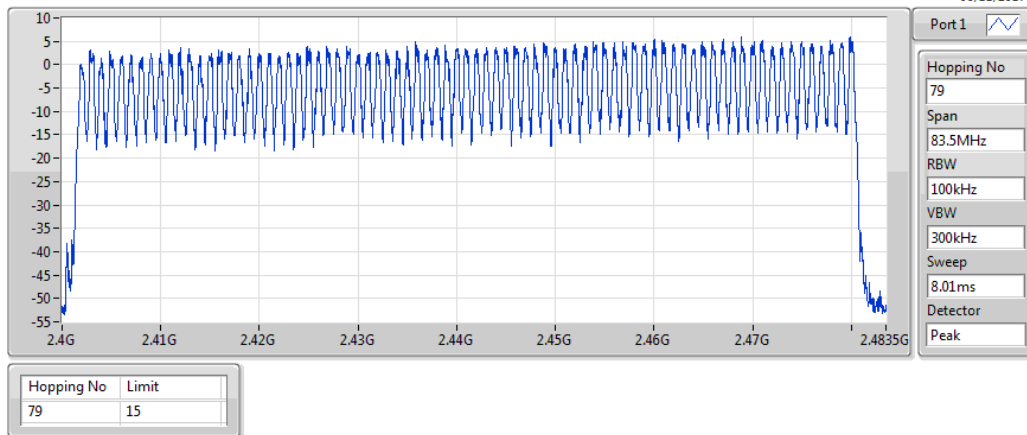
| Mode          | Max-Hop No |
|---------------|------------|
| 2.4-2.4835GHz | -          |
| BT-BR(1Mbps)  | 79         |
| BT-EDR(2Mbps) | 79         |
| BT-EDR(3Mbps) | 79         |

**Result**

| Mode          | Result | Hopping No | Limit |
|---------------|--------|------------|-------|
| BT-BR(1Mbps)  | -      | -          | -     |
| 2441MHz       | Pass   | 79         | 15    |
| BT-EDR(2Mbps) | -      | -          | -     |
| 2441MHz       | Pass   | 79         | 15    |
| BT-EDR(3Mbps) | -      | -          | -     |
| 2441MHz       | Pass   | 79         | 15    |

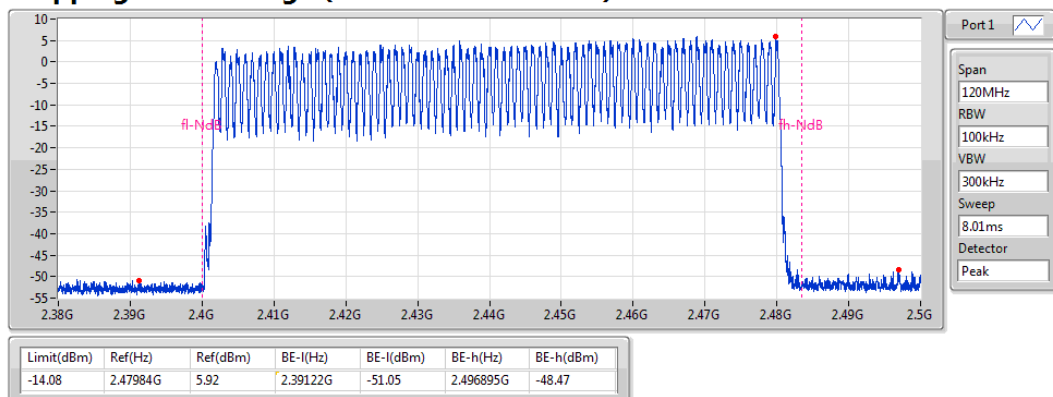
**BT-BR(1Mbps)**  
**2441MHz**

**Hopping Ch**



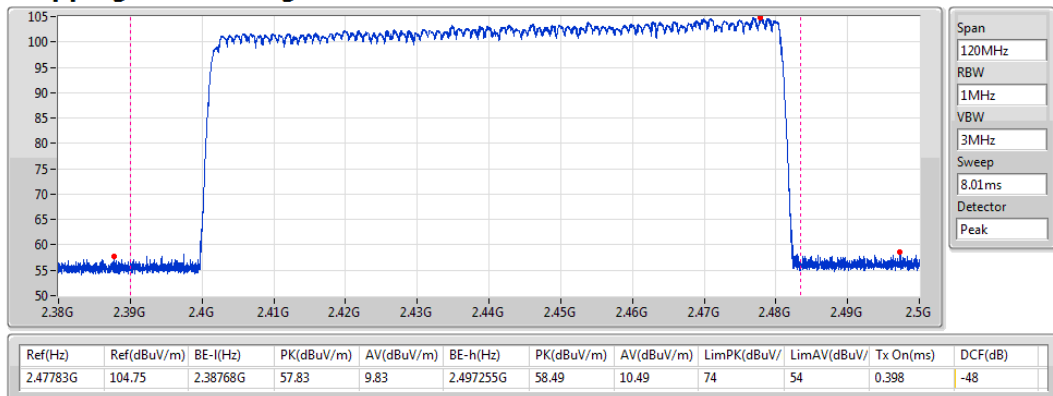
**BT-BR(1Mbps)**  
**2441MHz**

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



**BT-BR(1Mbps)**  
**2441MHz**

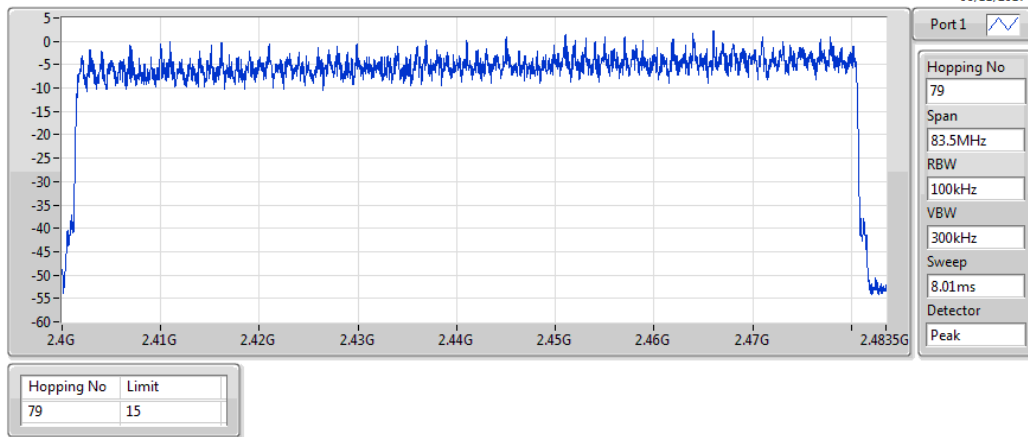
**Hopping Ch Bandedge (Restricted Band)**



### BT-EDR(2Mbps)

2441MHz

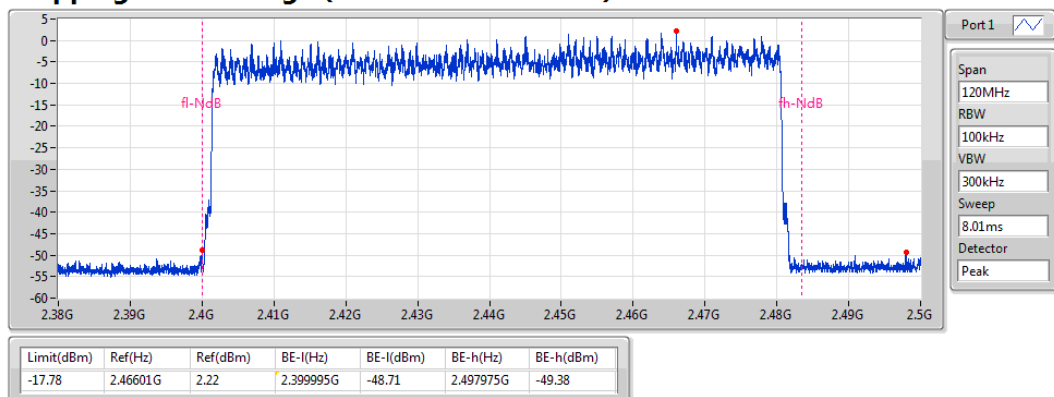
### Hopping Ch



### BT-EDR(2Mbps)

2441MHz

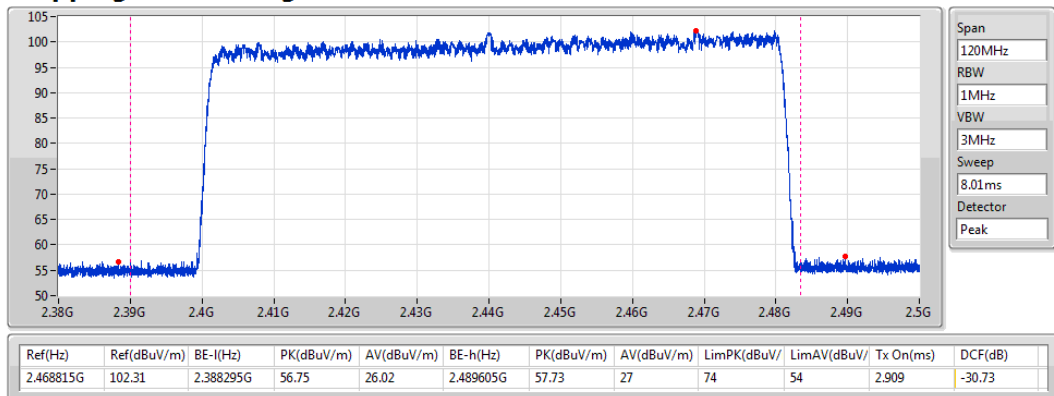
### Hopping Ch Bandedge (Non-restricted Band)



### BT-EDR(2Mbps)

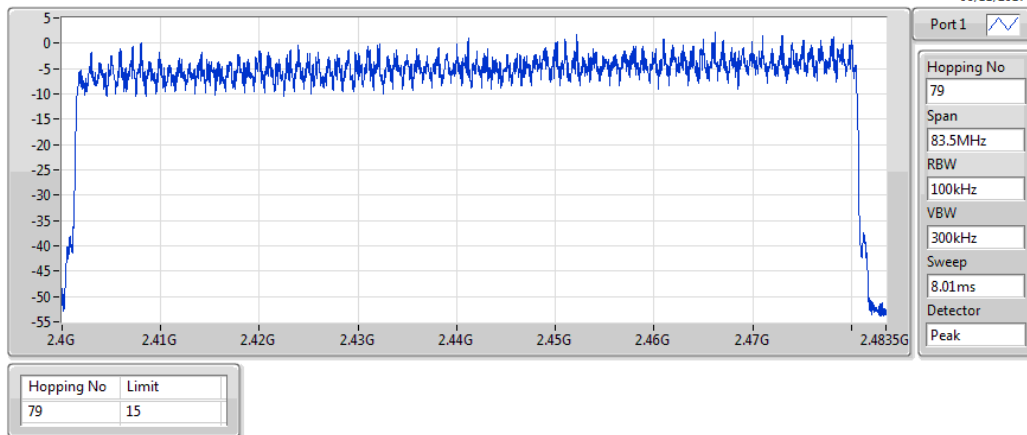
2441MHz

### Hopping Ch Bandedge (Restricted Band)



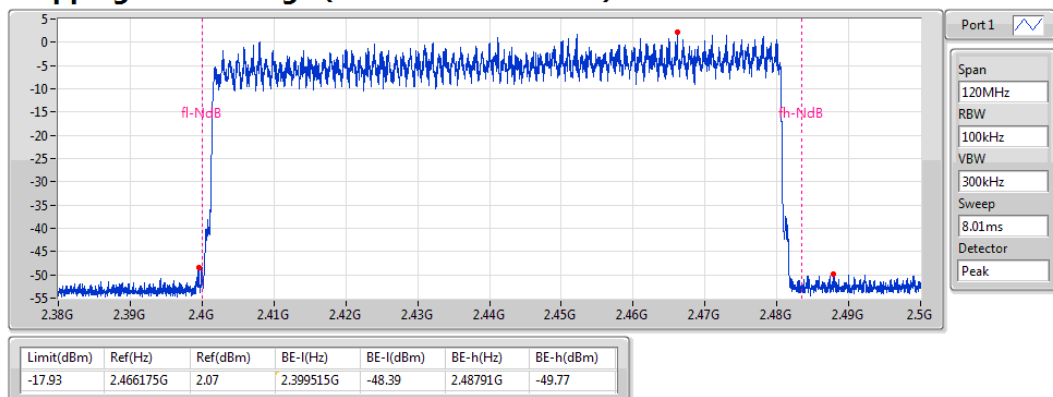
### BT-EDR(3Mbps) 2441MHz

### Hopping Ch



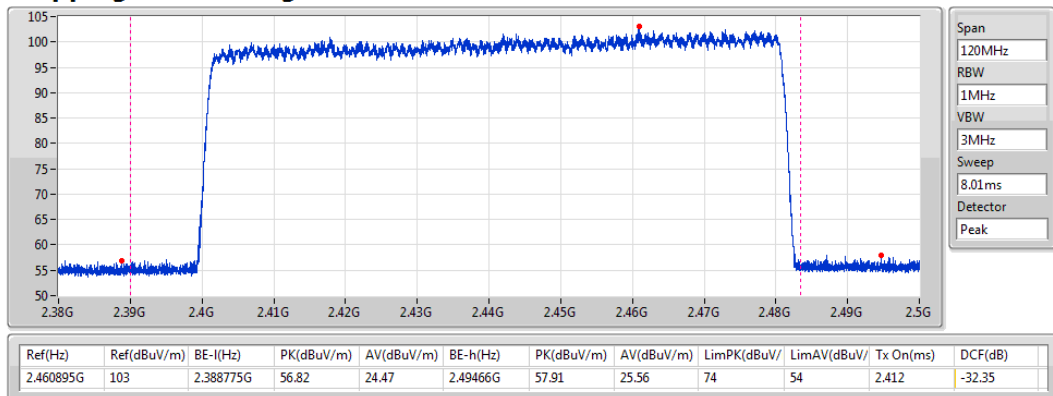
### BT-EDR(3Mbps) 2441MHz

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



### BT-EDR(3Mbps) 2441MHz

### Hopping Ch Bandedge (Restricted Band)



**Summary**

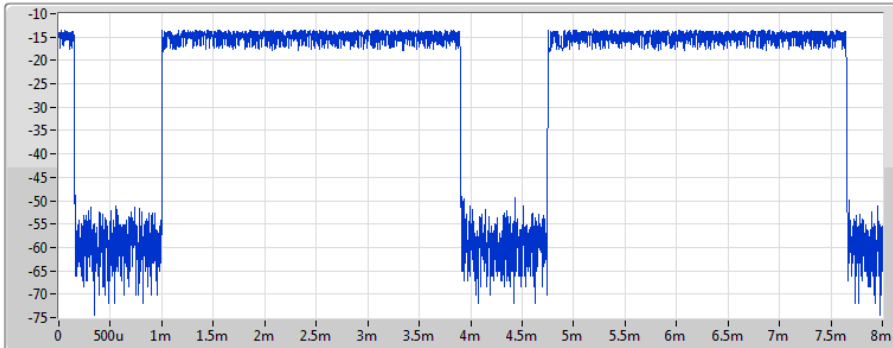
| Mode          | Max-Dwell<br>(s) |
|---------------|------------------|
| 2.4-2.4835GHz | -                |
| BT-BR(1Mbps)  | 309.4598m        |
| BT-EDR(2Mbps) | 310.0994m        |
| BT-EDR(3Mbps) | 310.3126m        |

**Result**

| Mode          | Result | Period<br>(s) | Dwell<br>(s) | Limit<br>(s) | Tx On<br>(s) |
|---------------|--------|---------------|--------------|--------------|--------------|
| BT-BR(1Mbps)  | -      | -             | -            | -            | -            |
| 2441MHz       | Pass   | 31.6          | 309.4598m    | 400m         | 2.903m       |
| BT-EDR(2Mbps) | -      | -             | -            | -            | -            |
| 2441MHz       | Pass   | 31.6          | 310.0994m    | 400m         | 2.909m       |
| BT-EDR(3Mbps) | -      | -             | -            | -            | -            |
| 2441MHz       | Pass   | 31.6          | 310.3126m    | 400m         | 2.911m       |

## BT-BR(1Mbps)

2441MHz



| Period(s) | Dwell(s)  | Limit(s) | Tx On(s) |
|-----------|-----------|----------|----------|
| 31.6      | 309.4598m | 400m     | 2.903m   |

## Dwell

07/11/2017

Port 1 

Ch Freq  
2.441GHz

RBW  
300kHz

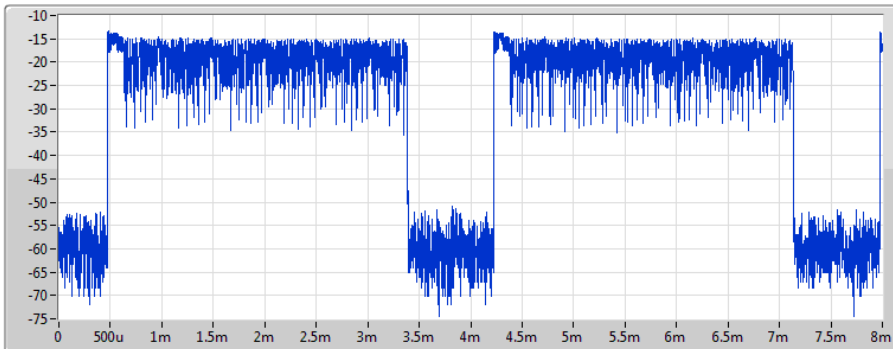
VBW  
1MHz

Sweep Time  
8ms

TX Time  
2.903ms

## BT-EDR(2Mbps)


2441MHz



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

## Dwell

07/11/2017

Port 1 

Ch Freq  
2.441GHz

RBW  
300kHz

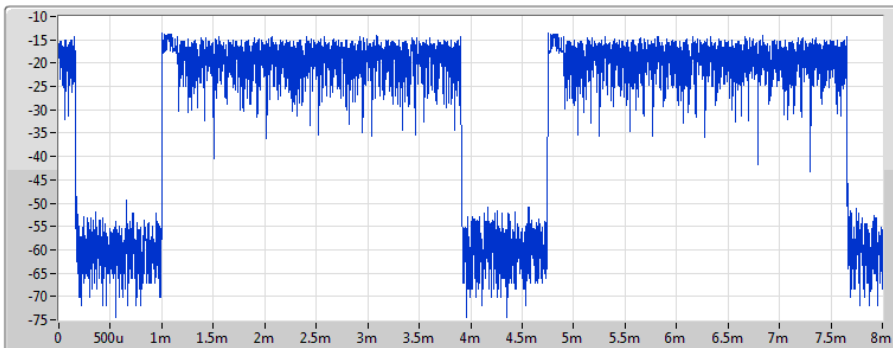
VBW  
1MHz

Sweep Time  
8ms

TX Time  
2.909ms

## BT-EDR(3Mbps)


2441MHz



| Period(s) | Dwell(s)  | Limit(s) | Tx On(s) |
|-----------|-----------|----------|----------|
| 31.6      | 310.3126m | 400m     | 2.911m   |

## Dwell

07/11/2017

Port 1 

Ch Freq  
2.441GHz

RBW  
300kHz

VBW  
1MHz

Sweep Time  
8ms

TX Time  
2.911ms



**Summary**

| Mode          | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|---------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 2.4-2.4835GHz | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| BT-BR(1Mbps)  | Pass   | 2.401837G   | 9.03         | -10.97         | 193.392M     | -52.05         | 2.399972G    | -39.59         | 2.48512G     | -53.02         | 2.555858G    | -39.36         | 1    |
| BT-EDR(2Mbps) | Pass   | 2.402004G   | 1.27         | -18.73         | 784.208M     | -52.46         | 2.399516G    | -41.02         | 2.48394G     | -53.17         | 16.227788G   | -47.12         | 1    |
| BT-EDR(3Mbps) | Pass   | 2.401837G   | -0.47        | -20.47         | 423.088M     | -53.05         | 2.399944G    | -41.34         | 2.484588G    | -53.09         | 2.555858G    | -42.99         | 1    |

**Result**

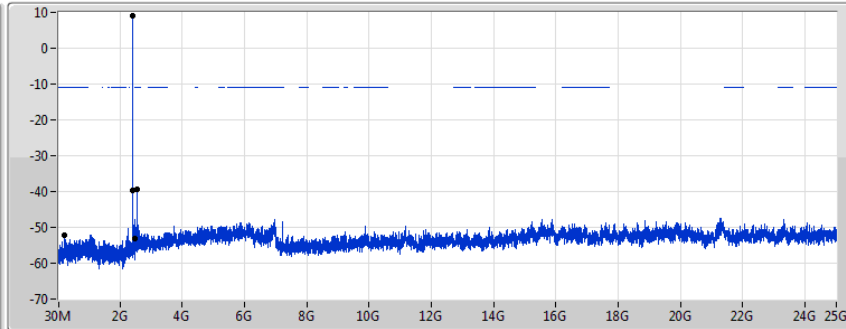
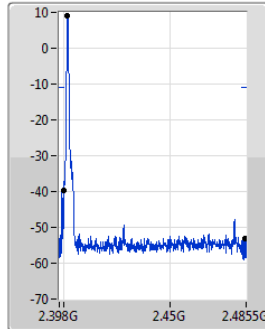
| Mode          | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|---------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| BT-BR(1Mbps)  | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2402MHz       | Pass   | 2.401837G   | 9.03         | -10.97         | 193.392M     | -52.05         | 2.399972G    | -39.59         | 2.48512G     | -53.02         | 2.555858G    | -39.36         | 1    |
| 2441MHz       | Pass   | 2.440915G   | 9.09         | -10.91         | 419.536M     | -52.01         | 2.398664G    | -54.01         | 2.48442G     | -52.88         | 2.595258G    | -43.78         | 1    |
| 2480MHz       | Pass   | 2.48016G    | 8.39         | -11.61         | 738.032M     | -52.83         | 2.39816G     | -54.50         | 2.485464G    | -50.60         | 6.9884G      | -48.48         | 1    |
| BT-EDR(2Mbps) | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2402MHz       | Pass   | 2.402004G   | 1.27         | -18.73         | 784.208M     | -52.46         | 2.399516G    | -41.02         | 2.48394G     | -53.17         | 16.227788G   | -47.12         | 1    |
| 2441MHz       | Pass   | 2.440915G   | 3.56         | -16.44         | 363.888M     | -53.59         | 2.399596G    | -53.84         | 2.483824G    | -53.99         | 6.951814G    | -48.88         | 1    |
| 2480MHz       | Pass   | 2.479826G   | 3.91         | -16.09         | 882.48M      | -52.80         | 2.399612G    | -53.71         | 2.483632G    | -52.58         | 6.84487G     | -48.15         | 1    |
| BT-EDR(3Mbps) | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2402MHz       | Pass   | 2.401837G   | -0.47        | -20.47         | 423.088M     | -53.05         | 2.399944G    | -41.34         | 2.484588G    | -53.09         | 2.555858G    | -42.99         | 1    |
| 2441MHz       | Pass   | 2.440915G   | 4.13         | -15.87         | 663.44M      | -53.19         | 2.398432G    | -53.75         | 2.484952G    | -53.07         | 6.895528G    | -47.41         | 1    |
| 2480MHz       | Pass   | 2.479993G   | 4.86         | -15.14         | 855.248M     | -52.78         | 2.399008G    | -54.05         | 2.483552G    | -51.14         | 6.039977G    | -48.48         | 1    |

## BT-BR(1Mbps)

CSE NdB

2402MHz

06/11/2017



Port 1

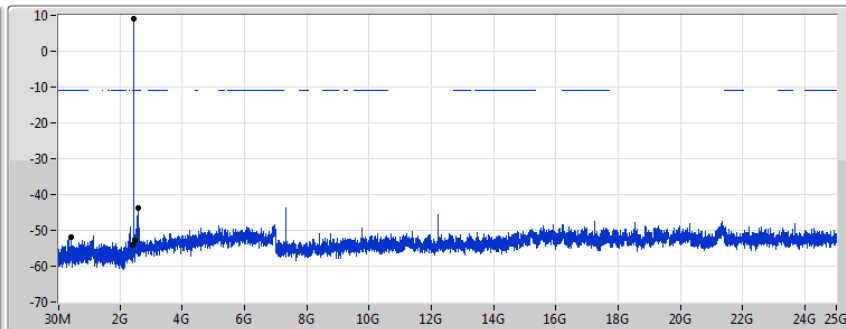
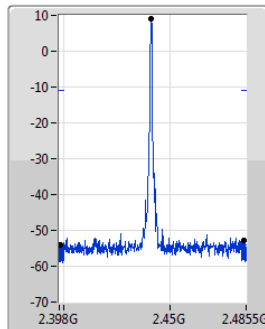
| Ref(Hz)   | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|-----------|----------|------------|----------|------------|-----------|------------|----------|------------|-----------|------------|------|
| 2.401837G | 9.03     | -10.97     | 193.392M | -52.05     | 2.399972G | -39.59     | 2.48512G | -53.02     | 2.555858G | -39.36     | 1    |

## BT-BR(1Mbps)

CSE NdB

2441MHz

06/11/2017



Port 1

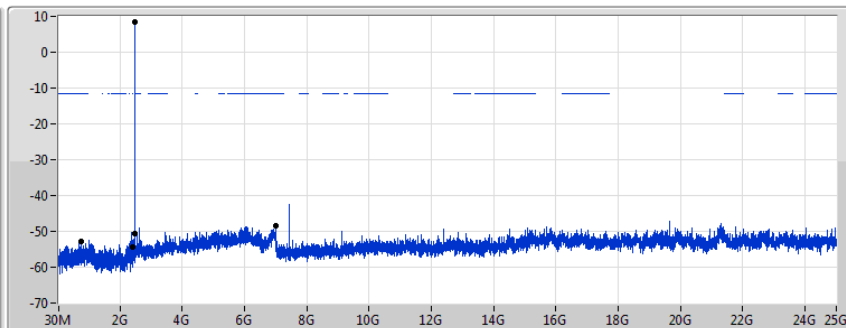
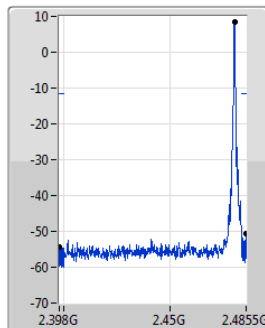
| Ref(Hz)   | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|-----------|----------|------------|----------|------------|-----------|------------|----------|------------|-----------|------------|------|
| 2.440915G | 9.09     | -10.91     | 419.536M | -52.01     | 2.398664G | -54.01     | 2.48442G | -52.88     | 2.595258G | -43.78     | 1    |

## BT-BR(1Mbps)

CSE NdB

2480MHz

06/11/2017



Port 1

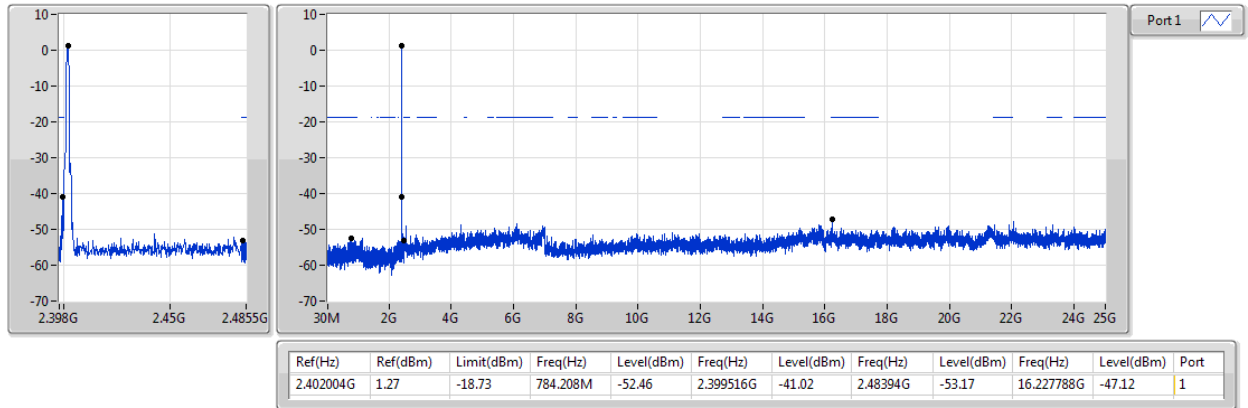
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|-----------|------------|----------|------------|------|
| 2.48016G | 8.39     | -11.61     | 738.032M | -52.83     | 2.39816G | -54.50     | 2.485464G | -50.60     | 6.9884G  | -48.48     | 1    |

### BT-EDR(2Mbps)

CSE NdB

2402MHz

06/11/2017

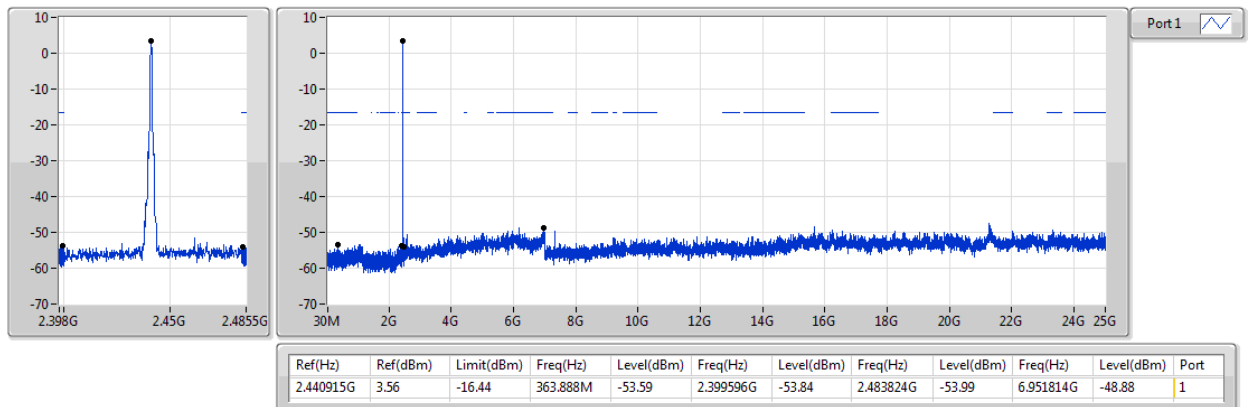


### BT-EDR(2Mbps)

CSE NdB

2441MHz

06/11/2017

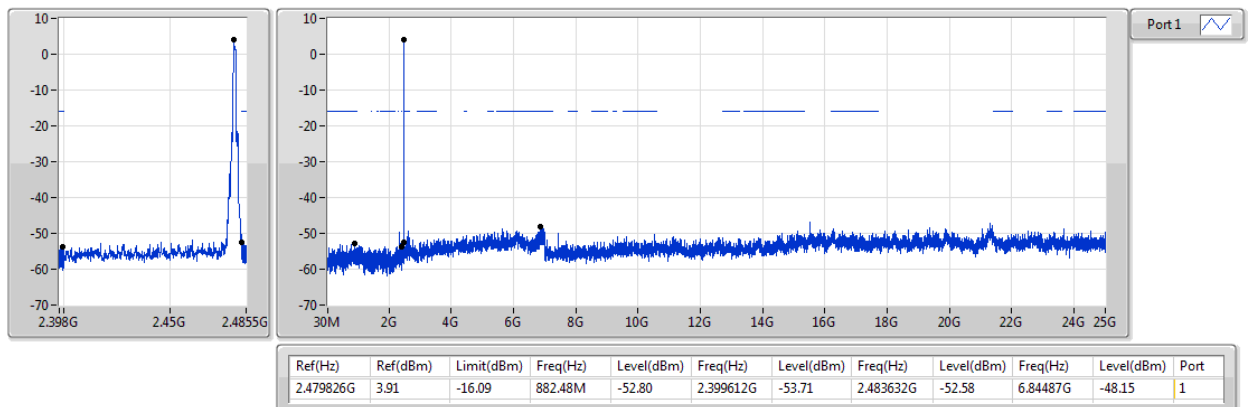


### BT-EDR(2Mbps)

CSE NdB

2480MHz

06/11/2017

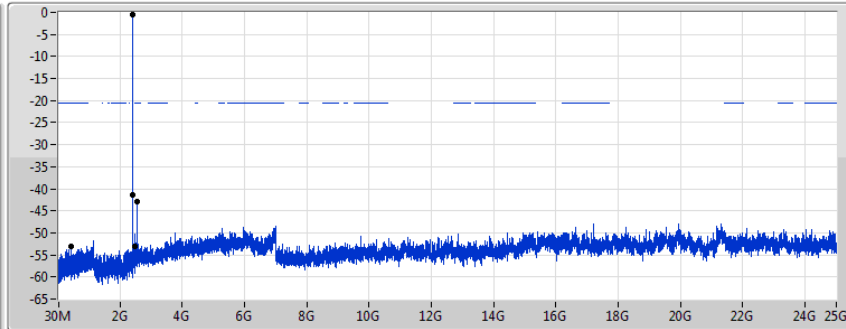
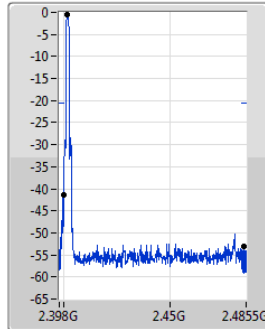


## BT-EDR(3Mbps)

CSE NdB

2402MHz

06/11/2017



Port 1

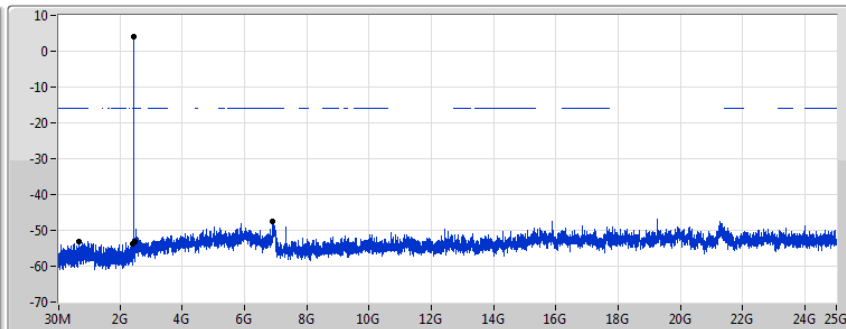
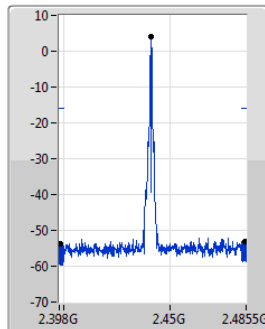
| Ref(Hz)   | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Freq(Hz)  | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|-----------|----------|------------|----------|------------|-----------|------------|-----------|------------|-----------|------------|------|
| 2.401837G | -0.47    | -20.47     | 423.088M | -53.05     | 2.399944G | -41.34     | 2.484588G | -53.09     | 2.555858G | -42.99     | 1    |

## BT-EDR(3Mbps)

CSE NdB

2441MHz

06/11/2017



Port 1

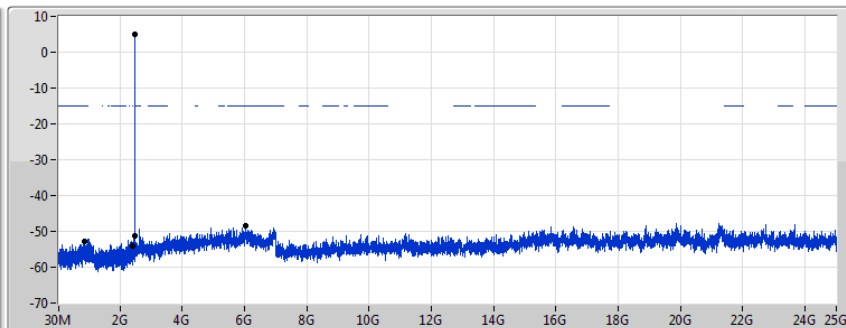
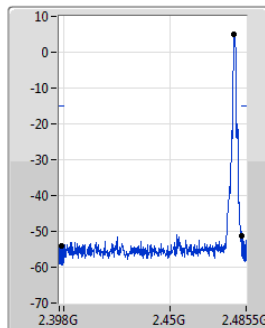
| Ref(Hz)   | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Freq(Hz)  | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|-----------|----------|------------|----------|------------|-----------|------------|-----------|------------|-----------|------------|------|
| 2.440915G | 4.13     | -15.87     | 663.44M  | -53.19     | 2.398432G | -53.75     | 2.484952G | -53.07     | 6.895528G | -47.41     | 1    |

## BT-EDR(3Mbps)

CSE NdB

2480MHz

06/11/2017



Port 1

| 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 | 4.86     | -15.14     | 855.248M | -52.78     | 2.399008G | -54.05     | 2.483552G | -51.14     | 6.039977G | -48.48     | 1    |

**Summary**

| Mode          | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 2.4-2.4835GHz | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| BT-BR(1Mbps)  | Pass   | QP   | 31.94M       | 36.23             | 40.00             | -3.77          | -3.57          | 3           | Horizontal | 72             | 3.12          | -        |

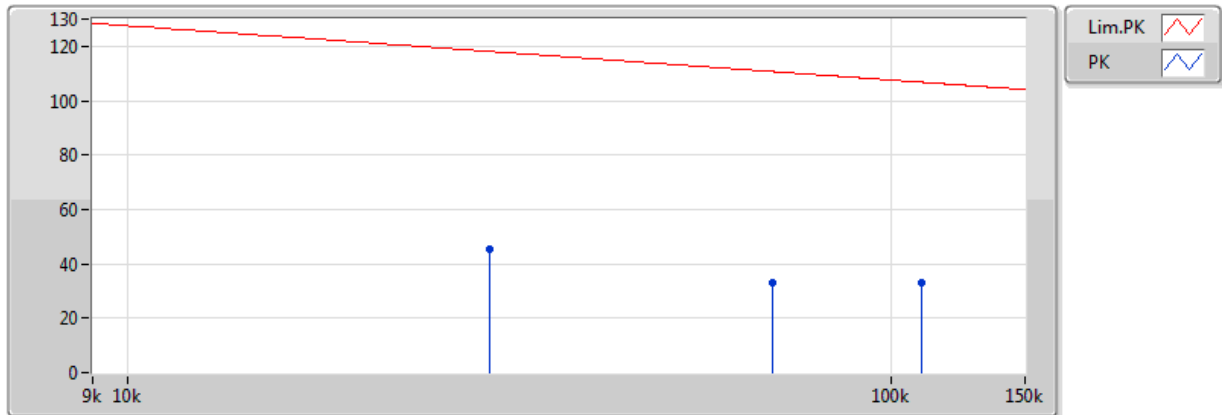
**Result**

| Mode         | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| BT-BR(1Mbps) | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 2441MHz      | Pass   | PK   | 29.843478k   | 45.61             | 118.09            | -72.48         | 22.07          | 3           | Horizontal | 225            | 1.00          | -        |
| 2441MHz      | Pass   | PK   | 69.895652k   | 33.06             | 110.71            | -77.65         | 21.01          | 3           | Horizontal | 225            | 1.00          | -        |
| 2441MHz      | Pass   | PK   | 109.947826k  | 33.17             | 106.77            | -73.60         | 20.77          | 3           | Horizontal | 225            | 1.00          | -        |
| 2441MHz      | Pass   | PK   | 1.188261M    | 39.74             | 66.13             | -26.39         | 21.01          | 3           | Horizontal | 360            | 1.00          | -        |
| 2441MHz      | Pass   | PK   | 3.567609M    | 47.20             | 69.50             | -22.30         | 20.88          | 3           | Horizontal | 360            | 1.00          | -        |
| 2441MHz      | Pass   | PK   | 17.021739M   | 37.78             | 69.50             | -31.72         | 22.90          | 3           | Horizontal | 360            | 1.00          | -        |
| 2441MHz      | Pass   | PK   | 185.2M       | 28.51             | 43.50             | -14.99         | -10.51         | 3           | Horizontal | 0              | 1.00          | -        |
| 2441MHz      | Pass   | PK   | 297.72M      | 29.17             | 46.00             | -16.83         | -5.90          | 3           | Horizontal | 0              | 1.00          | -        |
| 2441MHz      | Pass   | PK   | 369.5M       | 28.43             | 46.00             | -17.57         | -4.26          | 3           | Horizontal | 0              | 1.00          | -        |
| 2441MHz      | Pass   | PK   | 474.26M      | 35.67             | 46.00             | -10.33         | -1.78          | 3           | Horizontal | 0              | 1.00          | -        |
| 2441MHz      | Pass   | PK   | 701.24M      | 31.61             | 46.00             | -14.39         | 0.23           | 3           | Horizontal | 0              | 1.00          | -        |
| 2441MHz      | Pass   | QP   | 31.94M       | 36.23             | 40.00             | -3.77          | -3.57          | 3           | Horizontal | 72             | 3.12          | -        |
| 2441MHz      | Pass   | PK   | 156.1M       | 34.77             | 43.50             | -8.73          | -9.86          | 3           | Vertical   | 360            | 1.03          | -        |
| 2441MHz      | Pass   | PK   | 297.72M      | 25.66             | 46.00             | -20.34         | -5.90          | 3           | Vertical   | 360            | 1.03          | -        |
| 2441MHz      | Pass   | PK   | 398.6M       | 29.36             | 46.00             | -16.64         | -3.47          | 3           | Vertical   | 360            | 1.03          | -        |
| 2441MHz      | Pass   | PK   | 472.32M      | 36.19             | 46.00             | -9.81          | -1.80          | 3           | Vertical   | 360            | 1.03          | -        |
| 2441MHz      | Pass   | PK   | 577.08M      | 30.29             | 46.00             | -15.71         | -0.75          | 3           | Vertical   | 360            | 1.03          | -        |
| 2441MHz      | Pass   | QP   | 31.94M       | 35.32             | 40.00             | -4.68          | -3.57          | 3           | Vertical   | 128            | 1.01          | -        |

## BT-BR(1Mbps)

## 2441MHz\_Adapter

29/12/2017

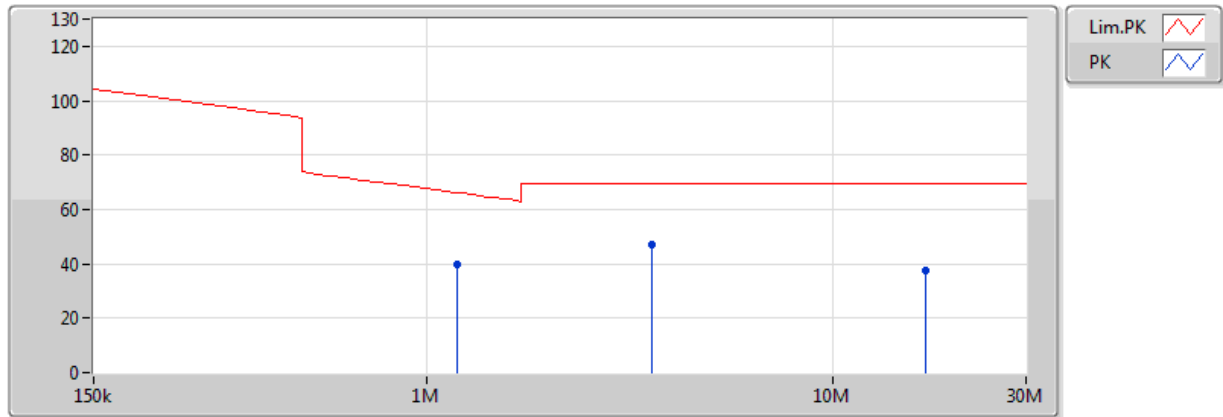


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 29.843478k   | 45.61             | 118.09            | -72.48         | 22.07          | 3           | Horizontal | 225            | 1.00          | -        | 23.54         | 22.00      | 0.07       | -          |
| PK   | 69.895652k   | 33.06             | 110.71            | -77.65         | 21.01          | 3           | Horizontal | 225            | 1.00          | -        | 12.05         | 20.94      | 0.07       | -          |
| PK   | 109.947826k  | 33.17             | 106.77            | -73.60         | 20.77          | 3           | Horizontal | 225            | 1.00          | -        | 12.40         | 20.69      | 0.08       | -          |

## BT-BR(1Mbps)

## 2441MHz\_Adapter

29/12/2017



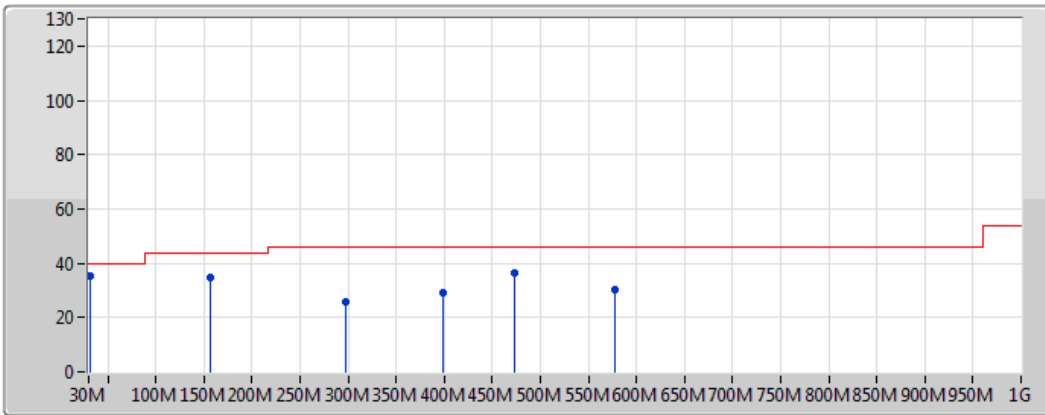
| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 17.021739M   | 37.78             | 69.50             | -31.72         | 22.90          | 3           | Horizontal | 360            | 1.00          | -        | 14.88         | 22.13      | 0.77       | -          |
| PK   | 3.567609M    | 47.20             | 69.50             | -22.30         | 20.88          | 3           | Horizontal | 360            | 1.00          | -        | 26.32         | 20.48      | 0.40       | -          |
| PK   | 1.188261M    | 39.74             | 66.13             | -26.39         | 21.01          | 3           | Horizontal | 360            | 1.00          | -        | 18.73         | 20.67      | 0.34       | -          |



## BT-BR(1Mbps)

## 2441MHz\_Adapter

29/12/2017



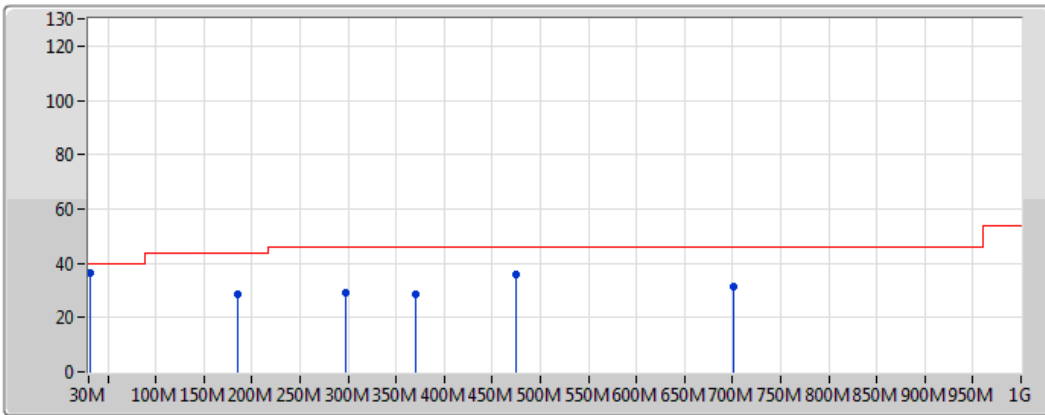
Lim.PK  
PK

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 156.1M       | 34.77             | 43.50             | -8.73          | -9.86          | 3           | Vertical  | 360            | 1.03          | -        | 44.63         | 15.11      | 2.15       | 27.11      |
| PK   | 297.72M      | 25.66             | 46.00             | -20.34         | -5.90          | 3           | Vertical  | 360            | 1.03          | -        | 31.56         | 18.39      | 2.39       | 26.68      |
| PK   | 398.6M       | 29.36             | 46.00             | -16.64         | -3.47          | 3           | Vertical  | 360            | 1.03          | -        | 32.83         | 20.75      | 3.06       | 27.28      |
| PK   | 472.32M      | 36.19             | 46.00             | -9.81          | -1.80          | 3           | Vertical  | 360            | 1.03          | -        | 37.99         | 22.41      | 3.48       | 27.68      |
| PK   | 577.08M      | 30.29             | 46.00             | -15.71         | -0.75          | 3           | Vertical  | 360            | 1.03          | -        | 31.04         | 23.51      | 3.69       | 27.95      |
| QP   | 31.94M       | 35.32             | 40.00             | -4.68          | -3.57          | 3           | Vertical  | 128            | 1.01          | -        | 38.89         | 22.27      | 1.74       | 27.58      |

## BT-BR(1Mbps)

## 2441MHz\_Adapter

29/12/2017



Lim.PK  
PK

| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| PK   | 297.72M      | 29.17             | 46.00             | -16.83         | -5.90          | 3           | Horizontal | 0              | 1.00          | -        | 35.07         | 18.39      | 2.39       | 26.68      |
| PK   | 185.2M       | 28.51             | 43.50             | -14.99         | -10.51         | 3           | Horizontal | 0              | 1.00          | -        | 39.02         | 14.17      | 2.30       | 26.98      |
| PK   | 369.5M       | 28.43             | 46.00             | -17.57         | -4.26          | 3           | Horizontal | 0              | 1.00          | -        | 32.69         | 19.84      | 3.01       | 27.11      |
| PK   | 474.26M      | 35.67             | 46.00             | -10.33         | -1.78          | 3           | Horizontal | 0              | 1.00          | -        | 37.45         | 22.43      | 3.48       | 27.69      |
| PK   | 701.24M      | 31.61             | 46.00             | -14.39         | 0.23           | 3           | Horizontal | 0              | 1.00          | -        | 31.38         | 24.06      | 4.13       | 27.95      |
| QP   | 31.94M       | 36.23             | 40.00             | -3.77          | -3.57          | 3           | Horizontal | 72             | 3.12          | -        | 39.80         | 22.27      | 1.74       | 27.58      |

**Summary**

| Mode          | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 2.4-2.4835GHz | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| BT-BR(1Mbps)  | Pass   | AV   | 7.44G        | 50.91             | 54.00             | -3.09          | 11.62          | 3           | Horizontal | 356            | 2.15          | -        |
| BT-EDR(2Mbps) | Pass   | AV   | 2.483502G    | 45.89             | 54.00             | -8.11          | 30.79          | 3           | Horizontal | 58             | 1.05          | -        |
| BT-EDR(3Mbps) | Pass   | AV   | 2.5G         | 45.77             | 54.00             | -8.23          | 30.85          | 3           | Horizontal | 57             | 1.09          | -        |

## Result

| Mode          | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| BT-BR(1Mbps)  | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 2402MHz       | Pass   | AV   | 2.3826G      | 44.27             | 54.00             | -9.73          | 30.43          | 3           | Horizontal | 53             | 1.26          | -        |
| 2402MHz       | Pass   | AV   | 2.402G       | 99.19             | Inf               | -Inf           | 30.50          | 3           | Horizontal | 53             | 1.26          | -        |
| 2402MHz       | Pass   | PK   | 2.372G       | 57.33             | 74.00             | -16.67         | 30.39          | 3           | Horizontal | 53             | 1.26          | -        |
| 2402MHz       | Pass   | PK   | 2.4022G      | 99.98             | Inf               | -Inf           | 30.50          | 3           | Horizontal | 53             | 1.26          | -        |
| 2402MHz       | Pass   | AV   | 2.388G       | 44.21             | 54.00             | -9.79          | 30.45          | 3           | Vertical   | 121            | 1.01          | -        |
| 2402MHz       | Pass   | AV   | 2.402G       | 94.56             | Inf               | -Inf           | 30.50          | 3           | Vertical   | 121            | 1.01          | -        |
| 2402MHz       | Pass   | PK   | 2.3716G      | 58.11             | 74.00             | -15.89         | 30.39          | 3           | Vertical   | 121            | 1.01          | -        |
| 2402MHz       | Pass   | PK   | 2.4022G      | 95.33             | Inf               | -Inf           | 30.50          | 3           | Vertical   | 121            | 1.01          | -        |
| 2402MHz       | Pass   | AV   | 4.804G       | 38.19             | 54.00             | -15.81         | 5.85           | 3           | Horizontal | 226            | 1.17          | -        |
| 2402MHz       | Pass   | PK   | 4.804G       | 47.20             | 74.00             | -26.80         | 5.85           | 3           | Horizontal | 226            | 1.17          | -        |
| 2402MHz       | Pass   | AV   | 4.804G       | 37.63             | 54.00             | -16.37         | 5.85           | 3           | Vertical   | 37             | 2.99          | -        |
| 2402MHz       | Pass   | PK   | 4.804G       | 47.26             | 74.00             | -26.74         | 5.85           | 3           | Vertical   | 37             | 2.99          | -        |
| 2441MHz       | Pass   | AV   | 2.3626G      | 44.54             | 54.00             | -9.46          | 30.36          | 3           | Horizontal | 56             | 1.00          | -        |
| 2441MHz       | Pass   | AV   | 2.441G       | 100.65            | Inf               | -Inf           | 30.64          | 3           | Horizontal | 56             | 1.00          | -        |
| 2441MHz       | Pass   | AV   | 2.499998G    | 45.49             | 54.00             | -8.51          | 30.85          | 3           | Horizontal | 56             | 1.00          | -        |
| 2441MHz       | Pass   | PK   | 2.3458G      | 57.29             | 74.00             | -16.71         | 30.30          | 3           | Horizontal | 56             | 1.00          | -        |
| 2441MHz       | Pass   | PK   | 2.441G       | 101.52            | Inf               | -Inf           | 30.64          | 3           | Horizontal | 56             | 1.00          | -        |
| 2441MHz       | Pass   | PK   | 2.4938G      | 58.29             | 74.00             | -15.71         | 30.83          | 3           | Horizontal | 56             | 1.00          | -        |
| 2441MHz       | Pass   | AV   | 2.3446G      | 44.23             | 54.00             | -9.77          | 30.30          | 3           | Vertical   | 69             | 1.18          | -        |
| 2441MHz       | Pass   | AV   | 2.441G       | 96.54             | Inf               | -Inf           | 30.64          | 3           | Vertical   | 69             | 1.18          | -        |
| 2441MHz       | Pass   | AV   | 2.4934G      | 45.25             | 54.00             | -8.75          | 30.83          | 3           | Vertical   | 69             | 1.18          | -        |
| 2441MHz       | Pass   | PK   | 2.359G       | 58.91             | 74.00             | -15.09         | 30.35          | 3           | Vertical   | 69             | 1.18          | -        |
| 2441MHz       | Pass   | PK   | 2.441G       | 97.50             | Inf               | -Inf           | 30.64          | 3           | Vertical   | 69             | 1.18          | -        |
| 2441MHz       | Pass   | PK   | 2.493G       | 57.68             | 74.00             | -16.32         | 30.82          | 3           | Vertical   | 69             | 1.18          | -        |
| 2441MHz       | Pass   | AV   | 7.323G       | 43.58             | 54.00             | -10.42         | 11.36          | 3           | Horizontal | 345            | 2.53          | -        |
| 2441MHz       | Pass   | PK   | 7.323G       | 54.75             | 74.00             | -19.25         | 11.36          | 3           | Horizontal | 345            | 2.53          | -        |
| 2441MHz       | Pass   | AV   | 7.323G       | 50.85             | 54.00             | -3.15          | 11.36          | 3           | Vertical   | 356            | 1.50          | -        |
| 2441MHz       | Pass   | PK   | 7.323G       | 58.12             | 74.00             | -15.88         | 11.36          | 3           | Vertical   | 356            | 1.50          | -        |
| 2480MHz       | Pass   | AV   | 2.48G        | 100.76            | Inf               | -Inf           | 30.78          | 3           | Horizontal | 58             | 1.11          | -        |
| 2480MHz       | Pass   | AV   | 2.483502G    | 45.89             | 54.00             | -8.11          | 30.79          | 3           | Horizontal | 58             | 1.11          | -        |
| 2480MHz       | Pass   | PK   | 2.4798G      | 101.52            | Inf               | -Inf           | 30.78          | 3           | Horizontal | 58             | 1.11          | -        |
| 2480MHz       | Pass   | PK   | 2.4926G      | 59.12             | 74.00             | -14.88         | 30.82          | 3           | Horizontal | 58             | 1.11          | -        |
| 2480MHz       | Pass   | AV   | 2.48G        | 97.11             | Inf               | -Inf           | 30.78          | 3           | Vertical   | 46             | 1.30          | -        |
| 2480MHz       | Pass   | AV   | 2.483502G    | 45.34             | 54.00             | -8.66          | 30.79          | 3           | Vertical   | 46             | 1.30          | -        |
| 2480MHz       | Pass   | PK   | 2.48G        | 97.85             | Inf               | -Inf           | 30.78          | 3           | Vertical   | 46             | 1.30          | -        |
| 2480MHz       | Pass   | PK   | 2.49G        | 58.33             | 74.00             | -15.67         | 30.81          | 3           | Vertical   | 46             | 1.30          | -        |
| 2480MHz       | Pass   | AV   | 7.44G        | 50.91             | 54.00             | -3.09          | 11.62          | 3           | Horizontal | 356            | 2.15          | -        |
| 2480MHz       | Pass   | PK   | 7.44G        | 58.31             | 74.00             | -15.69         | 11.62          | 3           | Horizontal | 356            | 2.15          | -        |
| 2480MHz       | Pass   | AV   | 7.44G        | 44.58             | 54.00             | -9.42          | 11.62          | 3           | Vertical   | 345            | 1.97          | -        |
| 2480MHz       | Pass   | PK   | 7.44G        | 54.41             | 74.00             | -19.59         | 11.62          | 3           | Vertical   | 345            | 1.97          | -        |
| BT-EDR(2Mbps) | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 2402MHz       | Pass   | AV   | 2.3758G      | 44.31             | 54.00             | -9.69          | 30.41          | 3           | Horizontal | 53             | 1.27          | -        |
| 2402MHz       | Pass   | AV   | 2.402G       | 99.27             | Inf               | -Inf           | 30.50          | 3           | Horizontal | 53             | 1.27          | -        |
| 2402MHz       | Pass   | PK   | 2.3874G      | 57.67             | 74.00             | -16.33         | 30.45          | 3           | Horizontal | 53             | 1.27          | -        |
| 2402MHz       | Pass   | PK   | 2.4022G      | 100.07            | Inf               | -Inf           | 30.50          | 3           | Horizontal | 53             | 1.27          | -        |
| 2402MHz       | Pass   | AV   | 2.3584G      | 44.27             | 54.00             | -9.73          | 30.34          | 3           | Vertical   | 124            | 1.00          | -        |
| 2402MHz       | Pass   | AV   | 2.402G       | 95.03             | Inf               | -Inf           | 30.50          | 3           | Vertical   | 124            | 1.00          | -        |

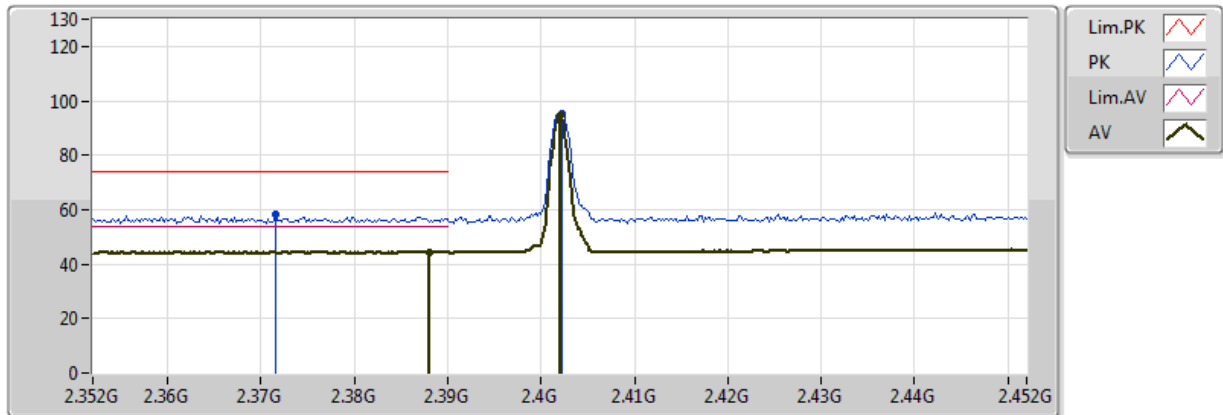
| Mode          | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 2402MHz       | Pass   | PK   | 2.3786G      | 57.77             | 74.00             | -16.23         | 30.42          | 3           | Vertical   | 124            | 1.00          | -        |
| 2402MHz       | Pass   | PK   | 2.4022G      | 95.82             | Inf               | -Inf           | 30.50          | 3           | Vertical   | 124            | 1.00          | -        |
| 2441MHz       | Pass   | AV   | 2.363G       | 44.58             | 54.00             | -9.42          | 30.36          | 3           | Horizontal | 54             | 1.41          | -        |
| 2441MHz       | Pass   | AV   | 2.441G       | 100.29            | Inf               | -Inf           | 30.64          | 3           | Horizontal | 54             | 1.41          | -        |
| 2441MHz       | Pass   | AV   | 2.493G       | 45.54             | 54.00             | -8.46          | 30.82          | 3           | Horizontal | 54             | 1.41          | -        |
| 2441MHz       | Pass   | PK   | 2.3434G      | 57.50             | 74.00             | -16.50         | 30.29          | 3           | Horizontal | 54             | 1.41          | -        |
| 2441MHz       | Pass   | PK   | 2.441G       | 101.31            | Inf               | -Inf           | 30.64          | 3           | Horizontal | 54             | 1.41          | -        |
| 2441MHz       | Pass   | PK   | 2.493G       | 57.70             | 74.00             | -16.30         | 30.82          | 3           | Horizontal | 54             | 1.41          | -        |
| 2441MHz       | Pass   | AV   | 2.3454G      | 44.29             | 54.00             | -9.71          | 30.30          | 3           | Vertical   | 69             | 1.19          | -        |
| 2441MHz       | Pass   | AV   | 2.441G       | 96.73             | Inf               | -Inf           | 30.64          | 3           | Vertical   | 69             | 1.19          | -        |
| 2441MHz       | Pass   | AV   | 2.4922G      | 45.35             | 54.00             | -8.65          | 30.82          | 3           | Vertical   | 69             | 1.19          | -        |
| 2441MHz       | Pass   | PK   | 2.3878G      | 58.19             | 74.00             | -15.81         | 30.45          | 3           | Vertical   | 69             | 1.19          | -        |
| 2441MHz       | Pass   | PK   | 2.441G       | 97.49             | Inf               | -Inf           | 30.64          | 3           | Vertical   | 69             | 1.19          | -        |
| 2441MHz       | Pass   | PK   | 2.485G       | 58.35             | 74.00             | -15.65         | 30.80          | 3           | Vertical   | 69             | 1.19          | -        |
| 2480MHz       | Pass   | AV   | 2.48G        | 100.61            | Inf               | -Inf           | 30.78          | 3           | Horizontal | 58             | 1.05          | -        |
| 2480MHz       | Pass   | AV   | 2.483502G    | 45.89             | 54.00             | -8.11          | 30.79          | 3           | Horizontal | 58             | 1.05          | -        |
| 2480MHz       | Pass   | PK   | 2.4798G      | 101.38            | Inf               | -Inf           | 30.78          | 3           | Horizontal | 58             | 1.05          | -        |
| 2480MHz       | Pass   | PK   | 2.4922G      | 59.18             | 74.00             | -14.82         | 30.82          | 3           | Horizontal | 58             | 1.05          | -        |
| 2480MHz       | Pass   | AV   | 2.48G        | 96.90             | Inf               | -Inf           | 30.78          | 3           | Vertical   | 47             | 1.29          | -        |
| 2480MHz       | Pass   | AV   | 2.483502G    | 45.47             | 54.00             | -8.53          | 30.79          | 3           | Vertical   | 47             | 1.29          | -        |
| 2480MHz       | Pass   | PK   | 2.48G        | 97.78             | Inf               | -Inf           | 30.78          | 3           | Vertical   | 47             | 1.29          | -        |
| 2480MHz       | Pass   | PK   | 2.495G       | 59.37             | 74.00             | -14.63         | 30.83          | 3           | Vertical   | 47             | 1.29          | -        |
| BT-EDR(3Mbps) | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 2402MHz       | Pass   | AV   | 2.3758G      | 44.30             | 54.00             | -9.70          | 30.41          | 3           | Horizontal | 55             | 1.28          | -        |
| 2402MHz       | Pass   | AV   | 2.402G       | 93.74             | Inf               | -Inf           | 30.50          | 3           | Horizontal | 55             | 1.28          | -        |
| 2402MHz       | Pass   | PK   | 2.3634G      | 58.56             | 74.00             | -15.44         | 30.36          | 3           | Horizontal | 55             | 1.28          | -        |
| 2402MHz       | Pass   | PK   | 2.402G       | 97.90             | Inf               | -Inf           | 30.50          | 3           | Horizontal | 55             | 1.28          | -        |
| 2402MHz       | Pass   | AV   | 2.3814G      | 44.31             | 54.00             | -9.69          | 30.42          | 3           | Vertical   | 124            | 1.01          | -        |
| 2402MHz       | Pass   | AV   | 2.402G       | 89.23             | Inf               | -Inf           | 30.50          | 3           | Vertical   | 124            | 1.01          | -        |
| 2402MHz       | Pass   | PK   | 2.3896G      | 58.29             | 74.00             | -15.71         | 30.45          | 3           | Vertical   | 124            | 1.01          | -        |
| 2402MHz       | Pass   | PK   | 2.4018G      | 93.36             | Inf               | -Inf           | 30.50          | 3           | Vertical   | 124            | 1.01          | -        |
| 2441MHz       | Pass   | AV   | 2.3634G      | 44.28             | 54.00             | -9.72          | 30.36          | 3           | Horizontal | 55             | 1.40          | -        |
| 2441MHz       | Pass   | AV   | 2.441G       | 95.44             | Inf               | -Inf           | 30.64          | 3           | Horizontal | 55             | 1.40          | -        |
| 2441MHz       | Pass   | AV   | 2.499998G    | 45.61             | 54.00             | -8.39          | 30.85          | 3           | Horizontal | 55             | 1.40          | -        |
| 2441MHz       | Pass   | PK   | 2.343G       | 56.99             | 74.00             | -17.01         | 30.29          | 3           | Horizontal | 55             | 1.40          | -        |
| 2441MHz       | Pass   | PK   | 2.441G       | 99.42             | Inf               | -Inf           | 30.64          | 3           | Horizontal | 55             | 1.40          | -        |
| 2441MHz       | Pass   | PK   | 2.4958G      | 58.02             | 74.00             | -15.98         | 30.83          | 3           | Horizontal | 55             | 1.40          | -        |
| 2441MHz       | Pass   | AV   | 2.3878G      | 44.26             | 54.00             | -9.74          | 30.45          | 3           | Vertical   | 70             | 1.19          | -        |
| 2441MHz       | Pass   | AV   | 2.441G       | 91.37             | Inf               | -Inf           | 30.64          | 3           | Vertical   | 70             | 1.19          | -        |
| 2441MHz       | Pass   | AV   | 2.499998G    | 45.48             | 54.00             | -8.52          | 30.85          | 3           | Vertical   | 70             | 1.19          | -        |
| 2441MHz       | Pass   | PK   | 2.3834G      | 57.46             | 74.00             | -16.54         | 30.43          | 3           | Vertical   | 70             | 1.19          | -        |
| 2441MHz       | Pass   | PK   | 2.441G       | 95.52             | Inf               | -Inf           | 30.64          | 3           | Vertical   | 70             | 1.19          | -        |
| 2441MHz       | Pass   | PK   | 2.499998G    | 58.14             | 74.00             | -15.86         | 30.85          | 3           | Vertical   | 70             | 1.19          | -        |
| 2480MHz       | Pass   | AV   | 2.48G        | 95.94             | Inf               | -Inf           | 30.78          | 3           | Horizontal | 57             | 1.09          | -        |
| 2480MHz       | Pass   | AV   | 2.5G         | 45.77             | 54.00             | -8.23          | 30.85          | 3           | Horizontal | 57             | 1.09          | -        |
| 2480MHz       | Pass   | PK   | 2.48G        | 99.75             | Inf               | -Inf           | 30.78          | 3           | Horizontal | 57             | 1.09          | -        |
| 2480MHz       | Pass   | PK   | 2.4926G      | 58.73             | 74.00             | -15.27         | 30.82          | 3           | Horizontal | 57             | 1.09          | -        |
| 2480MHz       | Pass   | AV   | 2.48G        | 92.44             | Inf               | -Inf           | 30.78          | 3           | Vertical   | 47             | 1.30          | -        |
| 2480MHz       | Pass   | AV   | 2.483502G    | 45.47             | 54.00             | -8.53          | 30.79          | 3           | Vertical   | 47             | 1.30          | -        |

| Mode    | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| 2480MHz | Pass   | PK   | 2.4798G      | 96.32             | Inf               | -Inf           | 30.78          | 3           | Vertical  | 47             | 1.30          | -        |
| 2480MHz | Pass   | PK   | 2.4872G      | 59.15             | 74.00             | -14.85         | 30.80          | 3           | Vertical  | 47             | 1.30          | -        |

## BT-BR(1Mbps)

## 2402MHz\_TX

10/11/2017

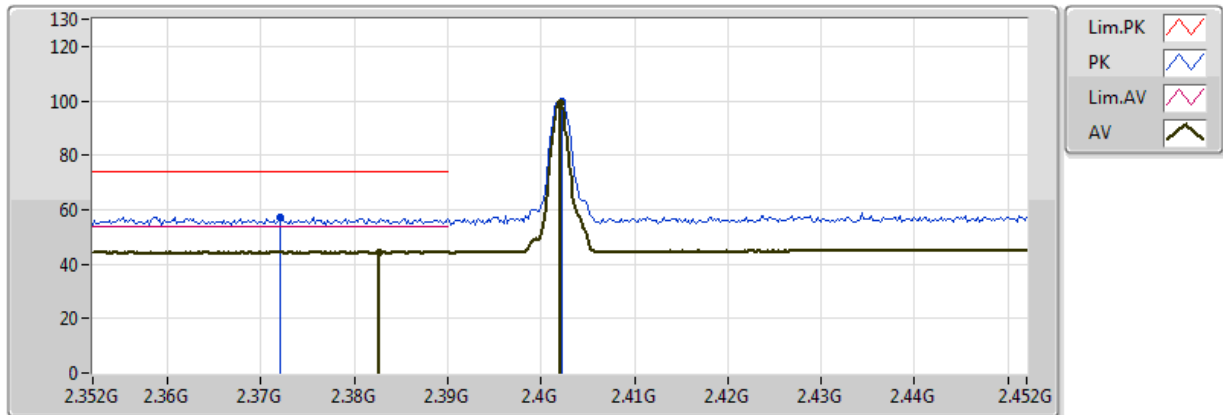


| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA   |
|------|---------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.388G  | 44.21    | 54.00    | -9.79  | 30.45  | 3    | Vertical  | 121     | 1.01   | -        | 13.76  | 27.21 | 3.24 | -    |
| AV   | 2.402G  | 94.56    | Inf      | -Inf   | 30.50  | 3    | Vertical  | 121     | 1.01   | -        | 64.06  | 27.25 | 3.25 | -    |
| PK   | 2.3716G | 58.11    | 74.00    | -15.89 | 30.39  | 3    | Vertical  | 121     | 1.01   | -        | 27.72  | 27.17 | 3.22 | -    |
| PK   | 2.4022G | 95.33    | Inf      | -Inf   | 30.50  | 3    | Vertical  | 121     | 1.01   | -        | 64.84  | 27.25 | 3.25 | -    |

## BT-BR(1Mbps)

## 2402MHz\_TX

10/11/2017



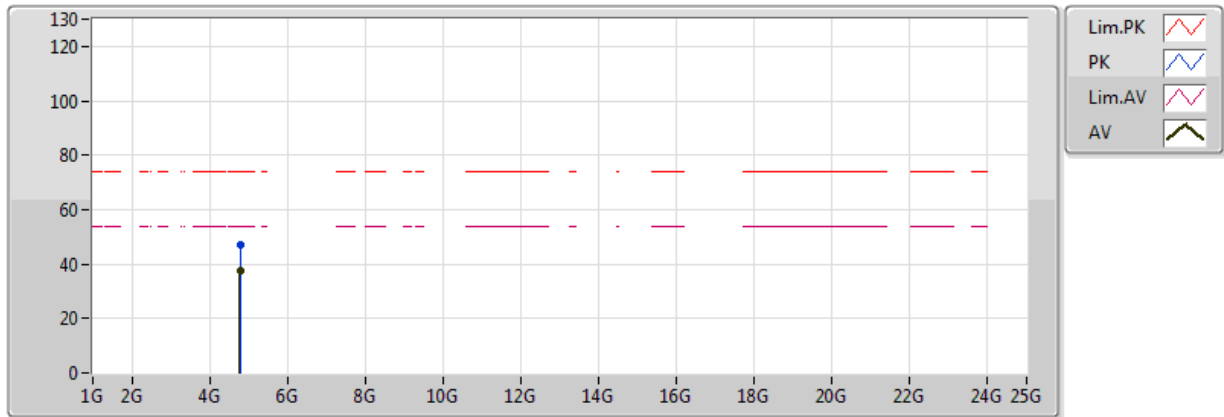
| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA   |
|------|---------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.3826G | 44.27    | 54.00    | -9.73  | 30.43  | 3    | Horizontal | 53      | 1.26   | -        | 13.84  | 27.19 | 3.23 | -    |
| AV   | 2.402G  | 99.19    | Inf      | -Inf   | 30.50  | 3    | Horizontal | 53      | 1.26   | -        | 68.69  | 27.25 | 3.25 | -    |
| PK   | 2.372G  | 57.33    | 74.00    | -16.67 | 30.39  | 3    | Horizontal | 53      | 1.26   | -        | 26.94  | 27.17 | 3.22 | -    |
| PK   | 2.4022G | 99.98    | Inf      | -Inf   | 30.50  | 3    | Horizontal | 53      | 1.26   | -        | 69.48  | 27.25 | 3.25 | -    |



### BT-BR(1Mbps)

### 2402MHz\_TX

10/11/2017

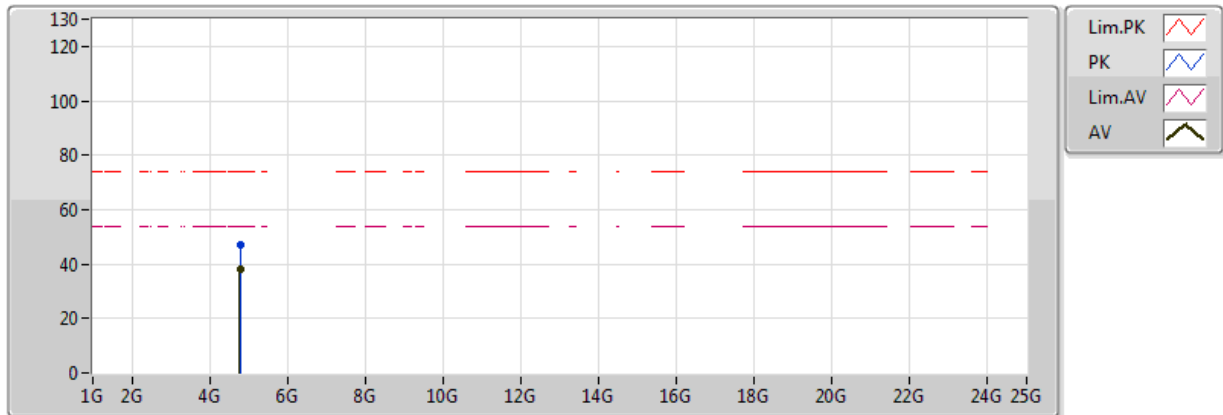


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.804G       | 37.63             | 54.00             | -16.37         | 5.85           | 3           | Vertical  | 37             | 2.99          | -        | 31.78         | 31.19      | 4.51       | 29.85      |
| PK   | 4.804G       | 47.26             | 74.00             | -26.74         | 5.85           | 3           | Vertical  | 37             | 2.99          | -        | 41.41         | 31.19      | 4.51       | 29.85      |

### BT-BR(1Mbps)

### 2402MHz\_TX

10/11/2017

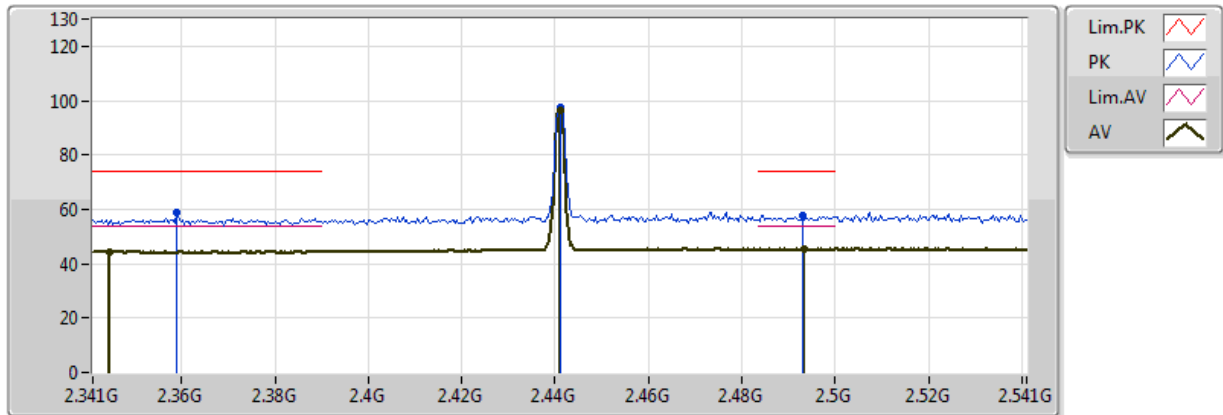


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 4.804G       | 38.19             | 54.00             | -15.81         | 5.85           | 3           | Horizontal | 226            | 1.17          | -        | 32.34         | 31.19      | 4.51       | 29.85      |
| PK   | 4.804G       | 47.20             | 74.00             | -26.80         | 5.85           | 3           | Horizontal | 226            | 1.17          | -        | 41.35         | 31.19      | 4.51       | 29.85      |

## BT-BR(1Mbps)

## 2441MHz\_TX

10/11/2017

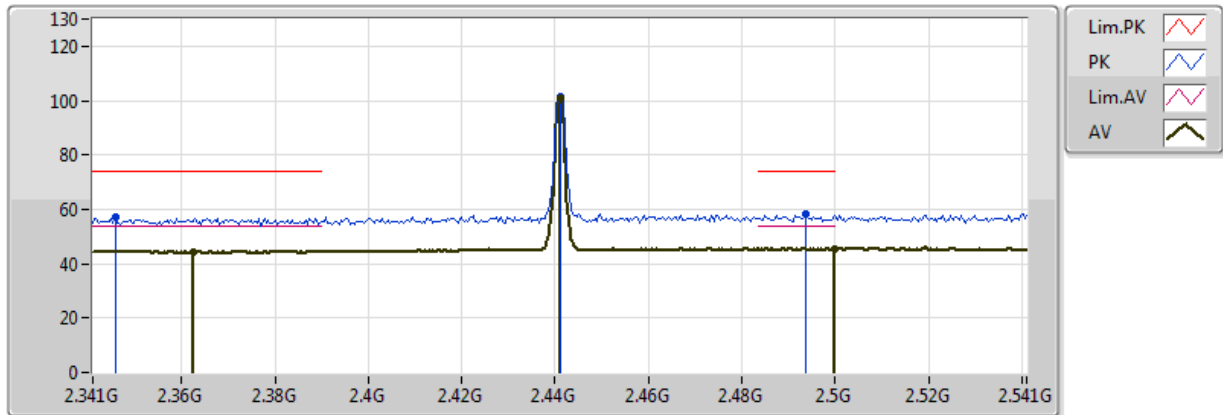


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.3446G      | 44.23             | 54.00             | -9.77          | 30.30          | 3           | Vertical  | 69             | 1.18          | -        | 13.93         | 27.10      | 3.20       | -          |
| AV   | 2.441G       | 96.54             | Inf               | -Inf           | 30.64          | 3           | Vertical  | 69             | 1.18          | -        | 65.90         | 27.35      | 3.29       | -          |
| AV   | 2.4934G      | 45.25             | 54.00             | -8.75          | 30.83          | 3           | Vertical  | 69             | 1.18          | -        | 14.42         | 27.48      | 3.34       | -          |
| PK   | 2.359G       | 58.91             | 74.00             | -15.09         | 30.35          | 3           | Vertical  | 69             | 1.18          | -        | 28.56         | 27.13      | 3.21       | -          |
| PK   | 2.441G       | 97.50             | Inf               | -Inf           | 30.64          | 3           | Vertical  | 69             | 1.18          | -        | 66.86         | 27.35      | 3.29       | -          |
| PK   | 2.493G       | 57.68             | 74.00             | -16.32         | 30.82          | 3           | Vertical  | 69             | 1.18          | -        | 26.86         | 27.48      | 3.34       | -          |

## BT-BR(1Mbps)

## 2441MHz\_TX

10/11/2017

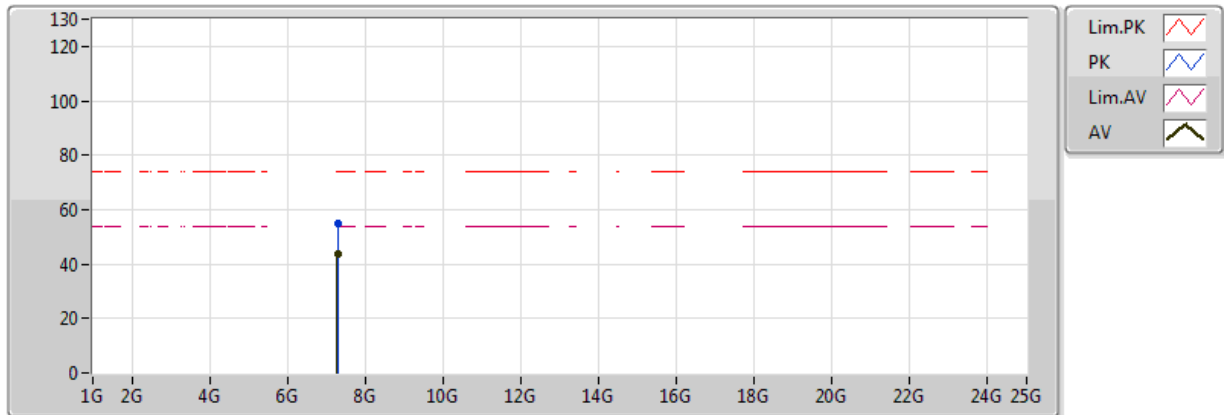


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.3626G      | 44.54             | 54.00             | -9.46          | 30.36          | 3           | Horizontal | 56             | 1.00          | -        | 14.18         | 27.14      | 3.22       | -          |
| AV   | 2.441G       | 100.65            | Inf               | -Inf           | 30.64          | 3           | Horizontal | 56             | 1.00          | -        | 70.02         | 27.35      | 3.29       | -          |
| AV   | 2.499998G    | 45.49             | 54.00             | -8.51          | 30.85          | 3           | Horizontal | 56             | 1.00          | -        | 14.64         | 27.50      | 3.35       | -          |
| PK   | 2.3458G      | 57.29             | 74.00             | -16.71         | 30.30          | 3           | Horizontal | 56             | 1.00          | -        | 26.99         | 27.10      | 3.20       | -          |
| PK   | 2.441G       | 101.52            | Inf               | -Inf           | 30.64          | 3           | Horizontal | 56             | 1.00          | -        | 70.89         | 27.35      | 3.29       | -          |
| PK   | 2.4938G      | 58.29             | 74.00             | -15.71         | 30.83          | 3           | Horizontal | 56             | 1.00          | -        | 27.46         | 27.48      | 3.34       | -          |

## BT-BR(1Mbps)

## 2441MHz\_TX

10/11/2017

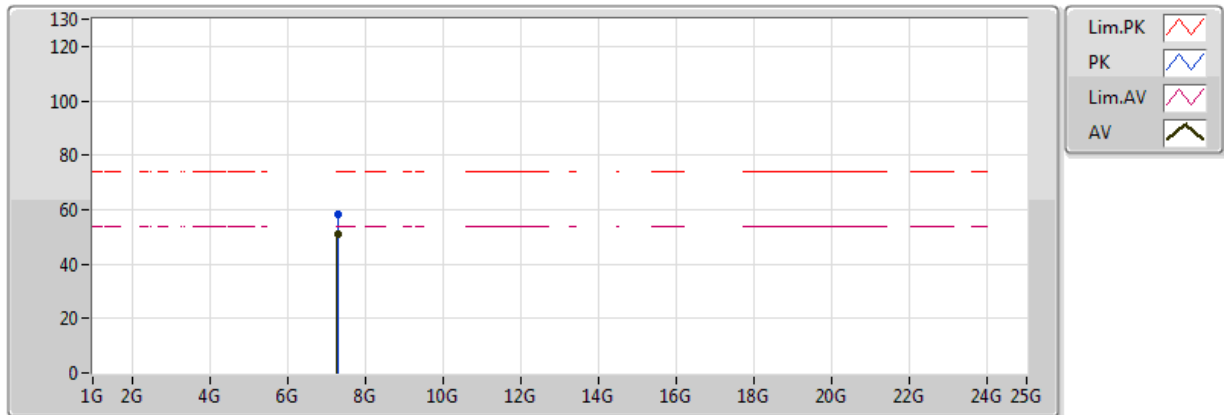


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 7.323G       | 43.58             | 54.00             | -10.42         | 11.36          | 3           | Horizontal | 345            | 2.53          | -        | 32.22         | 36.05      | 6.12       | 30.81      |
| PK   | 7.323G       | 54.75             | 74.00             | -19.25         | 11.36          | 3           | Horizontal | 345            | 2.53          | -        | 43.39         | 36.05      | 6.12       | 30.81      |

### BT-BR(1Mbps)

### 2441MHz\_TX

10/11/2017

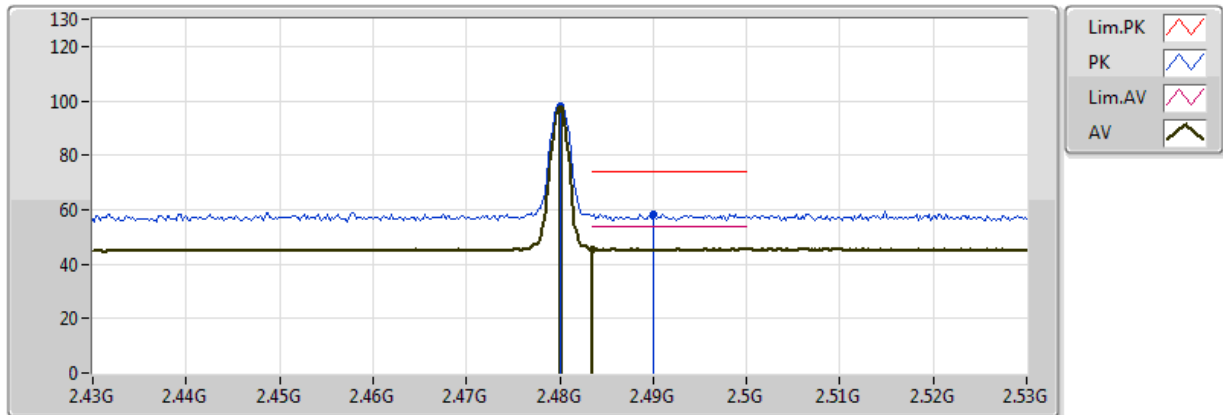


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 7.323G       | 50.85             | 54.00             | -3.15          | 11.36          | 3           | Vertical  | 356            | 1.50          | -        | 39.49         | 36.05      | 6.12       | 30.81      |
| PK   | 7.323G       | 58.12             | 74.00             | -15.88         | 11.36          | 3           | Vertical  | 356            | 1.50          | -        | 46.76         | 36.05      | 6.12       | 30.81      |

## BT-BR(1Mbps)

## 2480MHz\_TX

10/11/2017

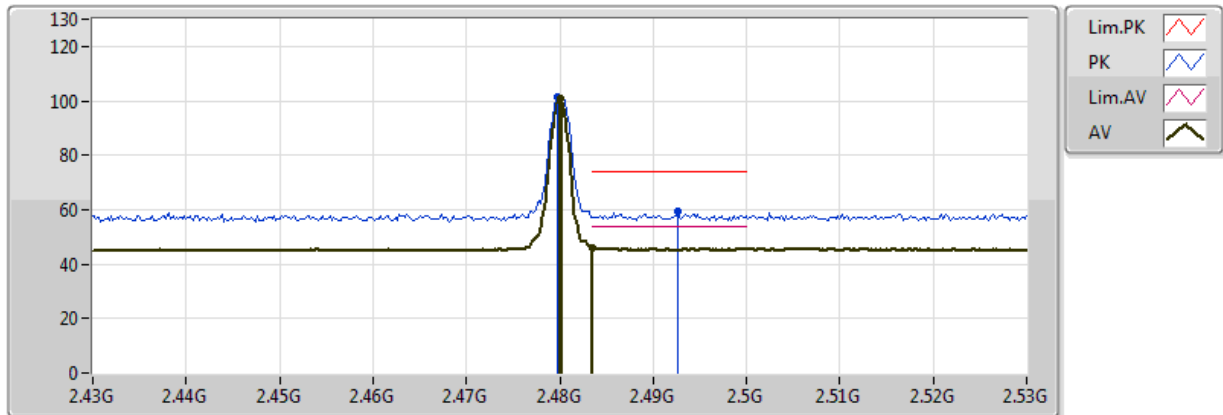


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA   |
|------|-----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.48G     | 97.11    | Inf      | -Inf   | 30.78  | 3    | Vertical  | 46      | 1.30   | -        | 66.33  | 27.45 | 3.33 | -    |
| AV   | 2.483502G | 45.34    | 54.00    | -8.66  | 30.79  | 3    | Vertical  | 46      | 1.30   | -        | 14.55  | 27.46 | 3.33 | -    |
| PK   | 2.48G     | 97.85    | Inf      | -Inf   | 30.78  | 3    | Vertical  | 46      | 1.30   | -        | 67.08  | 27.45 | 3.33 | -    |
| PK   | 2.49G     | 58.33    | 74.00    | -15.67 | 30.81  | 3    | Vertical  | 46      | 1.30   | -        | 27.52  | 27.47 | 3.34 | -    |

## BT-BR(1Mbps)

## 2480MHz\_TX

10/11/2017



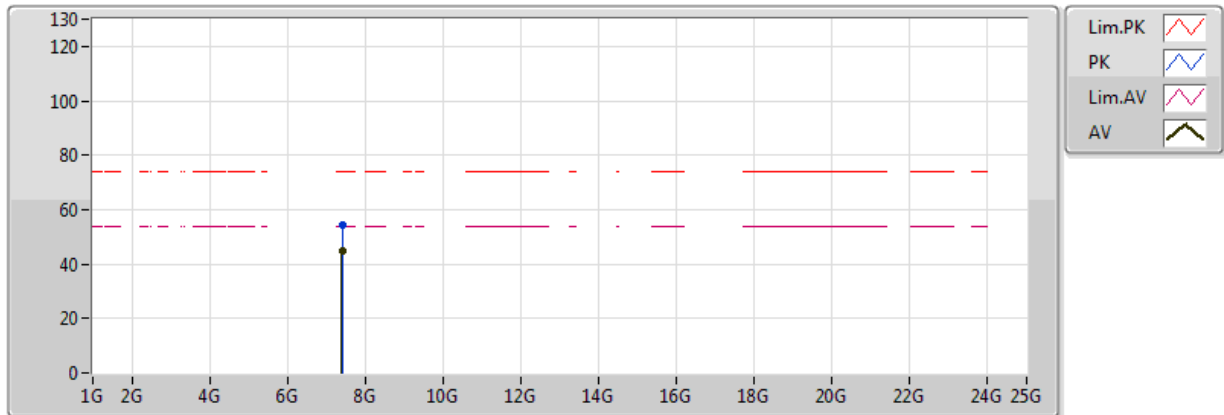
| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA   |
|------|-----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.48G     | 100.76   | Inf      | -Inf   | 30.78  | 3    | Horizontal | 58      | 1.11   | -        | 69.98  | 27.45 | 3.33 | -    |
| AV   | 2.483502G | 45.89    | 54.00    | -8.11  | 30.79  | 3    | Horizontal | 58      | 1.11   | -        | 15.10  | 27.46 | 3.33 | -    |
| PK   | 2.4798G   | 101.52   | Inf      | -Inf   | 30.78  | 3    | Horizontal | 58      | 1.11   | -        | 70.75  | 27.45 | 3.33 | -    |
| PK   | 2.4926G   | 59.12    | 74.00    | -14.88 | 30.82  | 3    | Horizontal | 58      | 1.11   | -        | 28.29  | 27.48 | 3.34 | -    |



### BT-BR(1Mbps)

### 2480MHz\_TX

10/11/2017

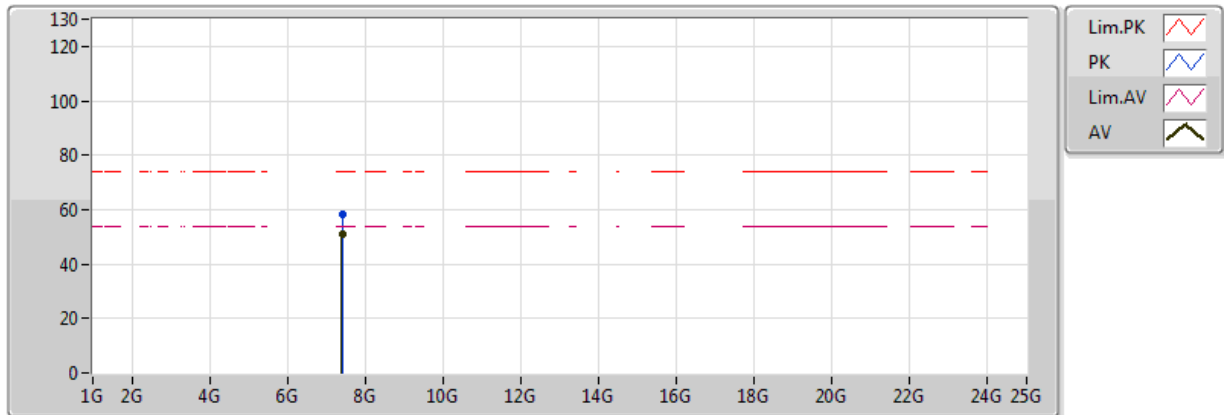


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 7.44G        | 44.58             | 54.00             | -9.42          | 11.62          | 3           | Vertical  | 345            | 1.97          | -        | 32.96         | 36.28      | 6.23       | 30.89      |
| PK   | 7.44G        | 54.41             | 74.00             | -19.59         | 11.62          | 3           | Vertical  | 345            | 1.97          | -        | 42.79         | 36.28      | 6.23       | 30.89      |

### BT-BR(1Mbps)

### 2480MHz\_TX

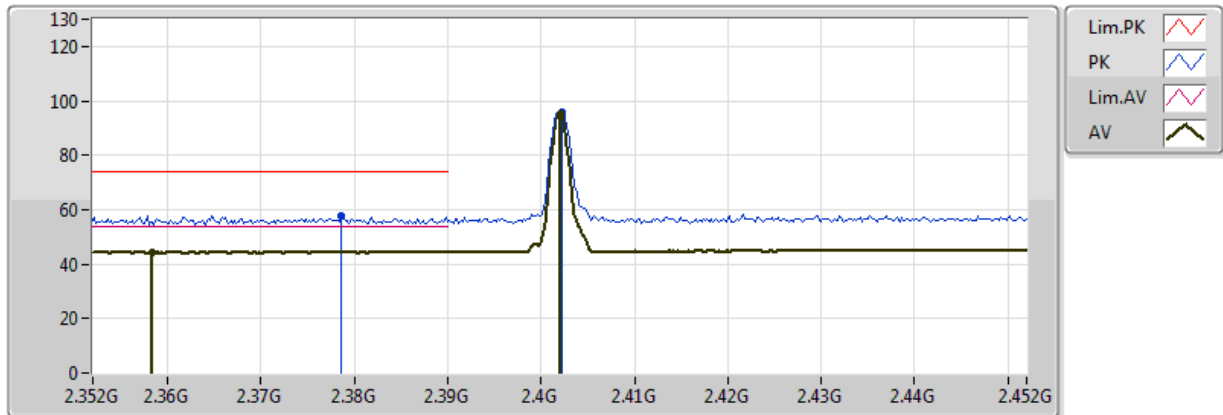
10/11/2017



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 7.44G        | 50.91             | 54.00             | -3.09          | 11.62          | 3           | Horizontal | 356            | 2.15          | -        | 39.29         | 36.28      | 6.23       | 30.89      |
| PK   | 7.44G        | 58.31             | 74.00             | -15.69         | 11.62          | 3           | Horizontal | 356            | 2.15          | -        | 46.69         | 36.28      | 6.23       | 30.89      |

**BT-EDR(2Mbps)**
**2402MHz\_TX**

10/11/2017

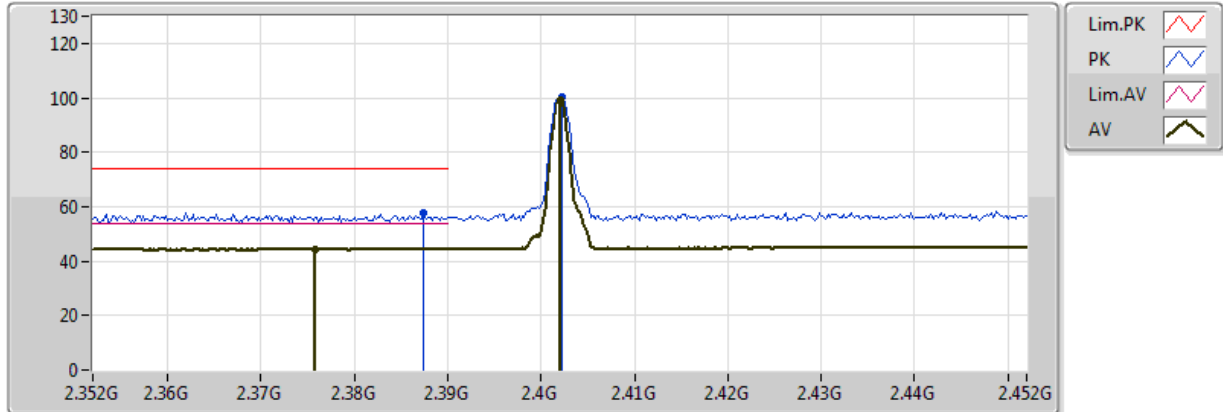


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.3584G      | 44.27             | 54.00             | -9.73          | 30.34          | 3           | Vertical  | 124            | 1.00          | -        | 13.93         | 27.13      | 3.21       | -          |
| AV   | 2.402G       | 95.03             | Inf               | -Inf           | 30.50          | 3           | Vertical  | 124            | 1.00          | -        | 64.53         | 27.25      | 3.25       | -          |
| PK   | 2.3786G      | 57.77             | 74.00             | -16.23         | 30.42          | 3           | Vertical  | 124            | 1.00          | -        | 27.36         | 27.18      | 3.23       | -          |
| PK   | 2.4022G      | 95.82             | Inf               | -Inf           | 30.50          | 3           | Vertical  | 124            | 1.00          | -        | 65.32         | 27.25      | 3.25       | -          |

### BT-EDR(2Mbps)

### 2402MHz\_TX

10/11/2017

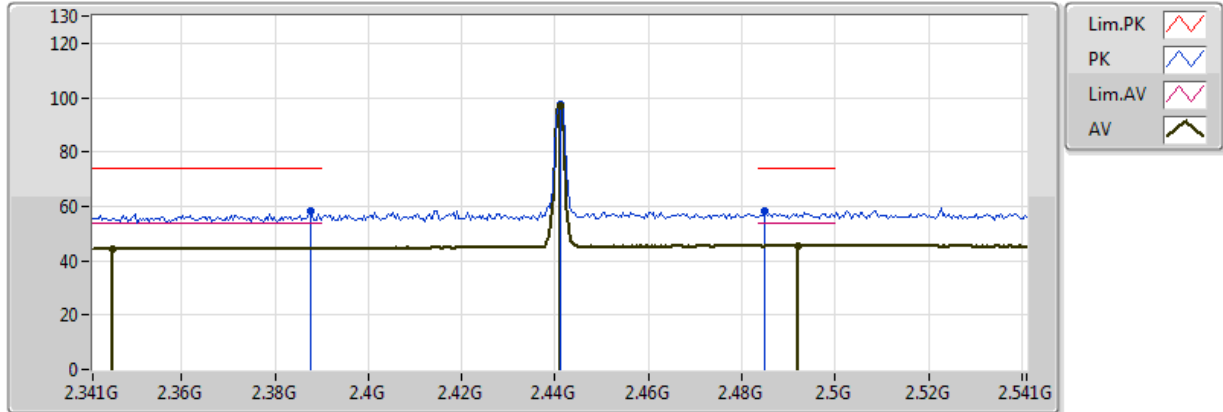


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.3758G      | 44.31             | 54.00             | -9.69          | 30.41          | 3           | Horizontal | 53             | 1.27          | -        | 13.90         | 27.18      | 3.23       | -          |
| AV   | 2.402G       | 99.27             | Inf               | -Inf           | 30.50          | 3           | Horizontal | 53             | 1.27          | -        | 68.77         | 27.25      | 3.25       | -          |
| PK   | 2.3874G      | 57.67             | 74.00             | -16.33         | 30.45          | 3           | Horizontal | 53             | 1.27          | -        | 27.22         | 27.21      | 3.24       | -          |
| PK   | 2.4022G      | 100.07            | Inf               | -Inf           | 30.50          | 3           | Horizontal | 53             | 1.27          | -        | 69.57         | 27.25      | 3.25       | -          |

## BT-EDR(2Mbps)

## 2441MHz\_TX

10/11/2017

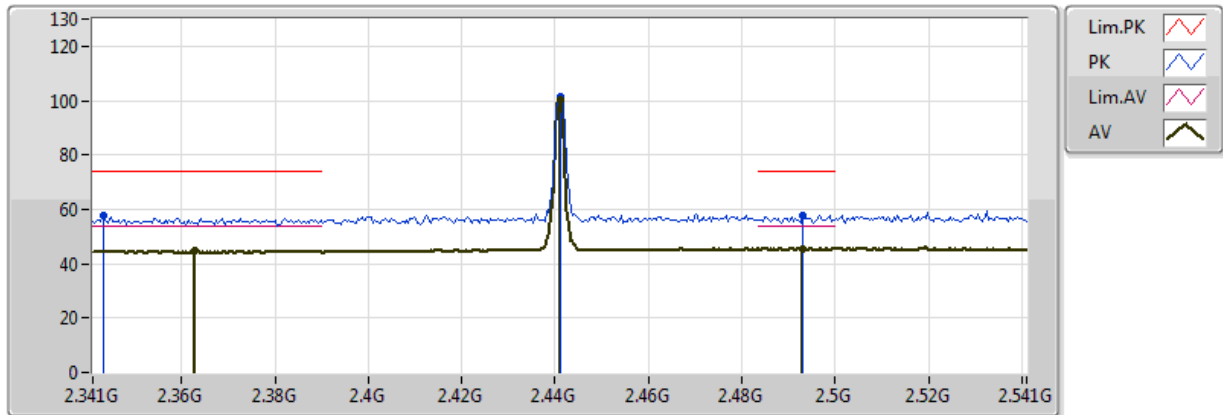


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.3454G      | 44.29             | 54.00             | -9.71          | 30.30          | 3           | Vertical  | 69             | 1.19          | -        | 13.99         | 27.10      | 3.20       | -          |
| AV   | 2.441G       | 96.73             | Inf               | -Inf           | 30.64          | 3           | Vertical  | 69             | 1.19          | -        | 66.10         | 27.35      | 3.29       | -          |
| AV   | 2.4922G      | 45.35             | 54.00             | -8.65          | 30.82          | 3           | Vertical  | 69             | 1.19          | -        | 14.53         | 27.48      | 3.34       | -          |
| PK   | 2.3878G      | 58.19             | 74.00             | -15.81         | 30.45          | 3           | Vertical  | 69             | 1.19          | -        | 27.74         | 27.21      | 3.24       | -          |
| PK   | 2.441G       | 97.49             | Inf               | -Inf           | 30.64          | 3           | Vertical  | 69             | 1.19          | -        | 66.85         | 27.35      | 3.29       | -          |
| PK   | 2.485G       | 58.35             | 74.00             | -15.65         | 30.80          | 3           | Vertical  | 69             | 1.19          | -        | 27.55         | 27.46      | 3.33       | -          |

## BT-EDR(2Mbps)

## 2441MHz\_TX

10/11/2017

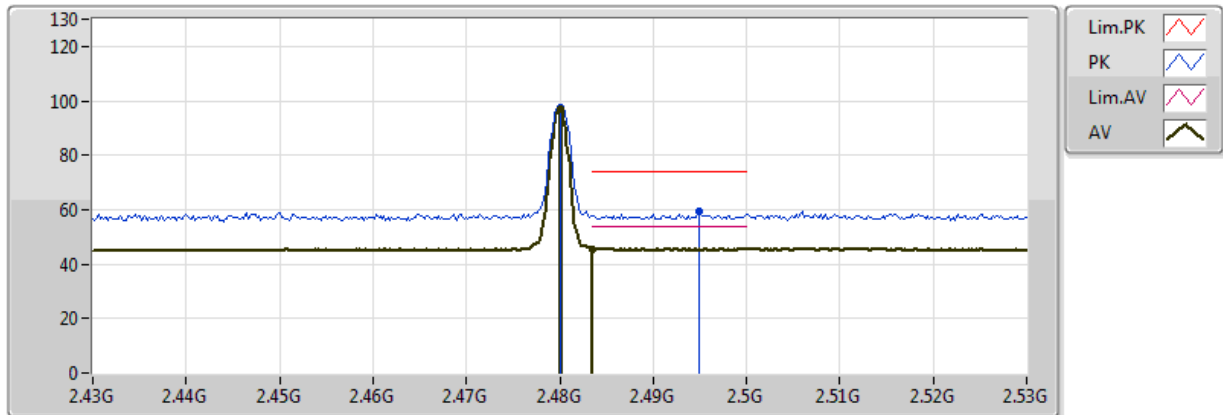


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.363G       | 44.58             | 54.00             | -9.42          | 30.36          | 3           | Horizontal | 54             | 1.41          | -        | 14.22         | 27.14      | 3.22       | -          |
| AV   | 2.441G       | 100.29            | Inf               | -Inf           | 30.64          | 3           | Horizontal | 54             | 1.41          | -        | 69.65         | 27.35      | 3.29       | -          |
| AV   | 2.493G       | 45.54             | 54.00             | -8.46          | 30.82          | 3           | Horizontal | 54             | 1.41          | -        | 14.71         | 27.48      | 3.34       | -          |
| PK   | 2.3434G      | 57.50             | 74.00             | -16.50         | 30.29          | 3           | Horizontal | 54             | 1.41          | -        | 27.20         | 27.09      | 3.20       | -          |
| PK   | 2.441G       | 101.31            | Inf               | -Inf           | 30.64          | 3           | Horizontal | 54             | 1.41          | -        | 70.67         | 27.35      | 3.29       | -          |
| PK   | 2.493G       | 57.70             | 74.00             | -16.30         | 30.82          | 3           | Horizontal | 54             | 1.41          | -        | 26.88         | 27.48      | 3.34       | -          |

## BT-EDR(2Mbps)

## 2480MHz\_TX

10/11/2017

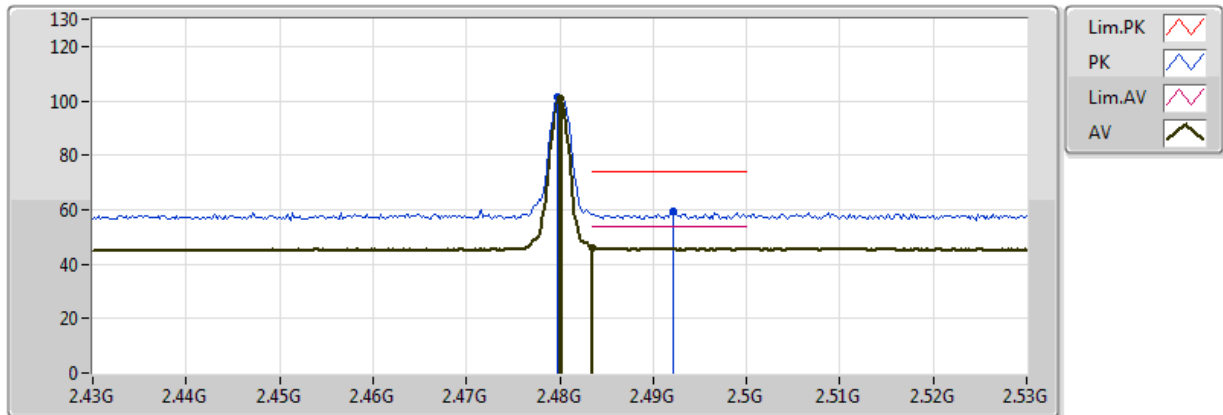


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA   |
|------|-----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.48G     | 96.90    | Inf      | -Inf   | 30.78  | 3    | Vertical  | 47      | 1.29   | -        | 66.12  | 27.45 | 3.33 | -    |
| AV   | 2.483502G | 45.47    | 54.00    | -8.53  | 30.79  | 3    | Vertical  | 47      | 1.29   | -        | 14.68  | 27.46 | 3.33 | -    |
| PK   | 2.48G     | 97.78    | Inf      | -Inf   | 30.78  | 3    | Vertical  | 47      | 1.29   | -        | 67.00  | 27.45 | 3.33 | -    |
| PK   | 2.495G    | 59.37    | 74.00    | -14.63 | 30.83  | 3    | Vertical  | 47      | 1.29   | -        | 28.53  | 27.49 | 3.35 | -    |

## BT-EDR(2Mbps)

## 2480MHz\_TX

10/11/2017



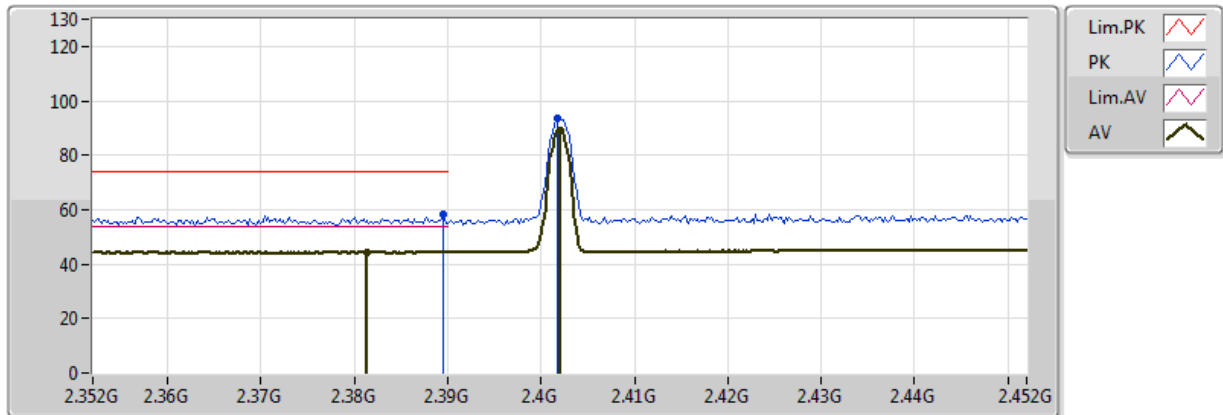
| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA   |
|------|-----------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.48G     | 100.61   | Inf      | -Inf   | 30.78  | 3    | Horizontal | 58      | 1.05   | -        | 69.83  | 27.45 | 3.33 | -    |
| AV   | 2.483502G | 45.89    | 54.00    | -8.11  | 30.79  | 3    | Horizontal | 58      | 1.05   | -        | 15.10  | 27.46 | 3.33 | -    |
| PK   | 2.4798G   | 101.38   | Inf      | -Inf   | 30.78  | 3    | Horizontal | 58      | 1.05   | -        | 70.60  | 27.45 | 3.33 | -    |
| PK   | 2.4922G   | 59.18    | 74.00    | -14.82 | 30.82  | 3    | Horizontal | 58      | 1.05   | -        | 28.35  | 27.48 | 3.34 | -    |



## BT-EDR(3Mbps)

## 2402MHz\_TX

10/11/2017

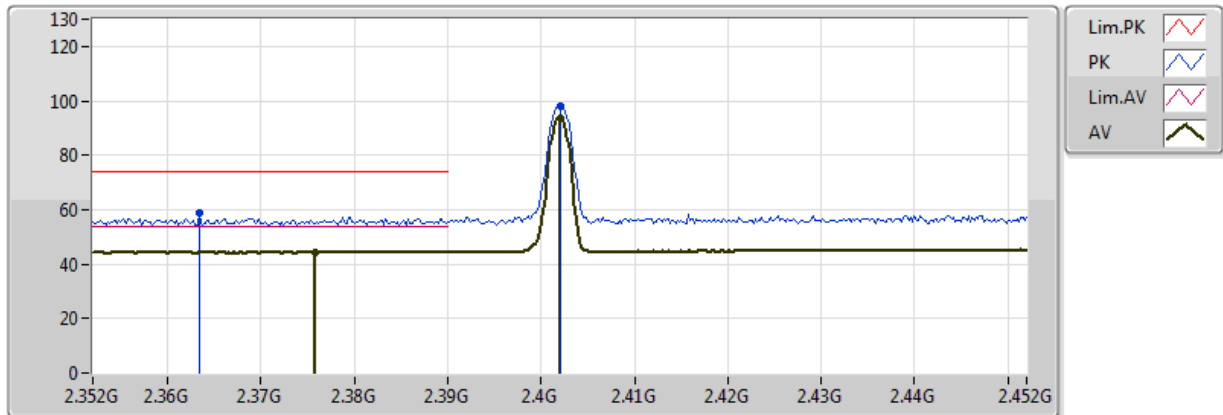


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.3814G      | 44.31             | 54.00             | -9.69          | 30.42          | 3           | Vertical  | 124            | 1.01          | -        | 13.88         | 27.19      | 3.23       | -          |
| AV   | 2.402G       | 89.23             | Inf               | -Inf           | 30.50          | 3           | Vertical  | 124            | 1.01          | -        | 58.73         | 27.25      | 3.25       | -          |
| PK   | 2.3896G      | 58.29             | 74.00             | -15.71         | 30.45          | 3           | Vertical  | 124            | 1.01          | -        | 27.84         | 27.21      | 3.24       | -          |
| PK   | 2.4018G      | 93.36             | Inf               | -Inf           | 30.50          | 3           | Vertical  | 124            | 1.01          | -        | 62.86         | 27.24      | 3.25       | -          |

## BT-EDR(3Mbps)

## 2402MHz\_TX

10/11/2017

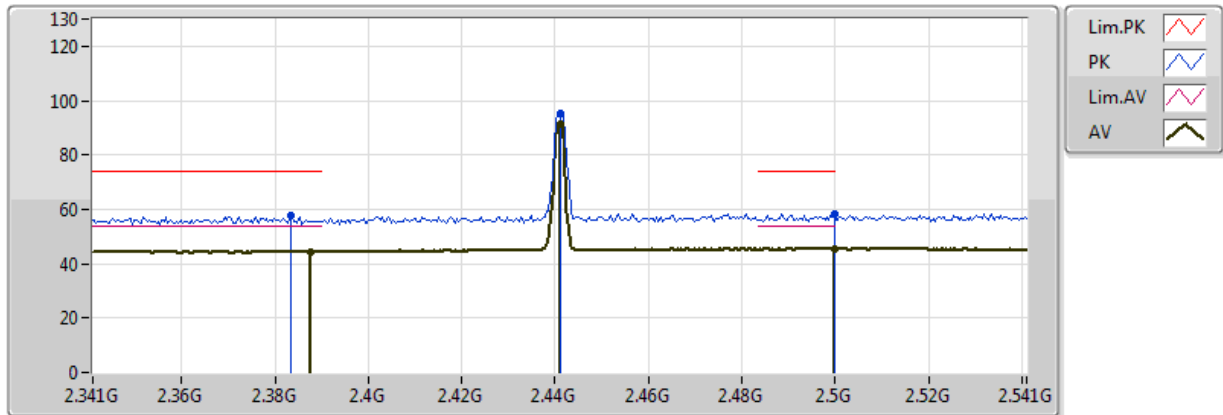


| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comments | Raw    | AF    | CL   | PA   |
|------|---------|----------|----------|--------|--------|------|------------|---------|--------|----------|--------|-------|------|------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.402G  | 93.74    | Inf      | -Inf   | 30.50  | 3    | Horizontal | 55      | 1.28   | -        | 63.24  | 27.25 | 3.25 | -    |
| AV   | 2.3758G | 44.30    | 54.00    | -9.70  | 30.41  | 3    | Horizontal | 55      | 1.28   | -        | 13.90  | 27.18 | 3.23 | -    |
| PK   | 2.402G  | 97.90    | Inf      | -Inf   | 30.50  | 3    | Horizontal | 55      | 1.28   | -        | 67.40  | 27.25 | 3.25 | -    |
| PK   | 2.3634G | 58.56    | 74.00    | -15.44 | 30.36  | 3    | Horizontal | 55      | 1.28   | -        | 28.19  | 27.14 | 3.22 | -    |

## BT-EDR(3Mbps)

## 2441MHz\_TX

10/11/2017

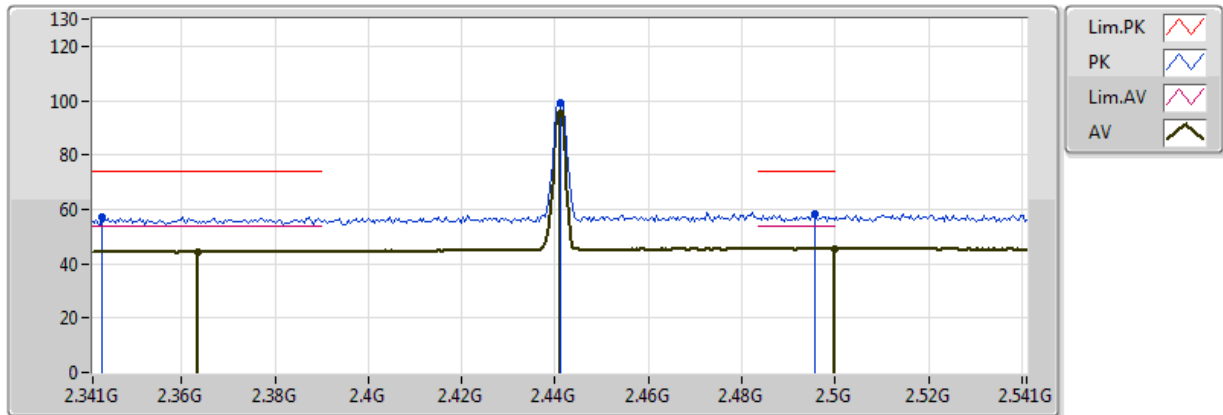


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.3878G      | 44.26             | 54.00             | -9.74          | 30.45          | 3           | Vertical  | 70             | 1.19          | -        | 13.81         | 27.21      | 3.24       | -          |
| AV   | 2.441G       | 91.37             | Inf               | -Inf           | 30.64          | 3           | Vertical  | 70             | 1.19          | -        | 60.73         | 27.35      | 3.29       | -          |
| AV   | 2.49998G     | 45.48             | 54.00             | -8.52          | 30.85          | 3           | Vertical  | 70             | 1.19          | -        | 14.63         | 27.50      | 3.35       | -          |
| PK   | 2.3834G      | 57.46             | 74.00             | -16.54         | 30.43          | 3           | Vertical  | 70             | 1.19          | -        | 27.02         | 27.20      | 3.24       | -          |
| PK   | 2.441G       | 95.52             | Inf               | -Inf           | 30.64          | 3           | Vertical  | 70             | 1.19          | -        | 64.88         | 27.35      | 3.29       | -          |
| PK   | 2.49998G     | 58.14             | 74.00             | -15.86         | 30.85          | 3           | Vertical  | 70             | 1.19          | -        | 27.29         | 27.50      | 3.35       | -          |

## BT-EDR(3Mbps)

## 2441MHz\_TX

10/11/2017

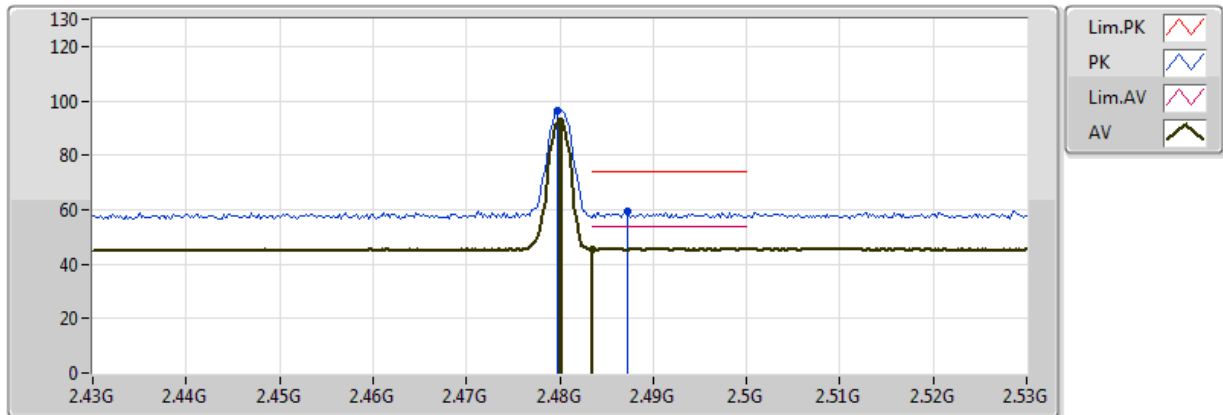


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|---------------|------------|------------|------------|
| AV   | 2.3634G      | 44.28             | 54.00             | -9.72          | 30.36          | 3           | Horizontal | 55             | 1.40          | -        | 13.92         | 27.14      | 3.22       | -          |
| AV   | 2.441G       | 95.44             | Inf               | -Inf           | 30.64          | 3           | Horizontal | 55             | 1.40          | -        | 64.80         | 27.35      | 3.29       | -          |
| AV   | 2.499998G    | 45.61             | 54.00             | -8.39          | 30.85          | 3           | Horizontal | 55             | 1.40          | -        | 14.76         | 27.50      | 3.35       | -          |
| PK   | 2.343G       | 56.99             | 74.00             | -17.01         | 30.29          | 3           | Horizontal | 55             | 1.40          | -        | 26.70         | 27.09      | 3.20       | -          |
| PK   | 2.441G       | 99.42             | Inf               | -Inf           | 30.64          | 3           | Horizontal | 55             | 1.40          | -        | 68.78         | 27.35      | 3.29       | -          |
| PK   | 2.4958G      | 58.02             | 74.00             | -15.98         | 30.83          | 3           | Horizontal | 55             | 1.40          | -        | 27.18         | 27.49      | 3.35       | -          |

## BT-EDR(3Mbps)

## 2480MHz\_TX

10/11/2017

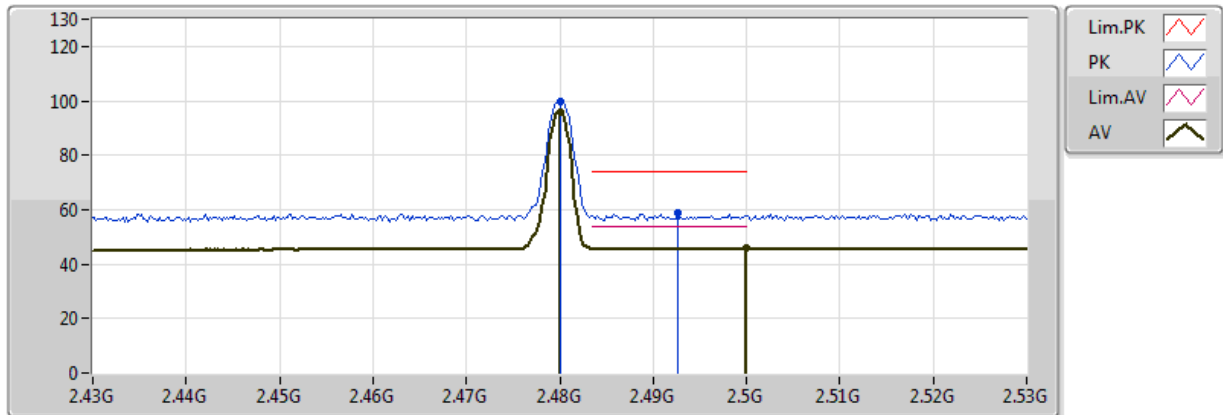


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments | Raw    | AF    | CL   | PA   |
|------|-----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|--------|-------|------|------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.48G     | 92.44    | Inf      | -Inf   | 30.78  | 3    | Vertical  | 47      | 1.30   | -        | 61.66  | 27.45 | 3.33 | -    |
| AV   | 2.483502G | 45.47    | 54.00    | -8.53  | 30.79  | 3    | Vertical  | 47      | 1.30   | -        | 14.68  | 27.46 | 3.33 | -    |
| PK   | 2.4798G   | 96.32    | Inf      | -Inf   | 30.78  | 3    | Vertical  | 47      | 1.30   | -        | 65.54  | 27.45 | 3.33 | -    |
| PK   | 2.4872G   | 59.15    | 74.00    | -14.85 | 30.80  | 3    | Vertical  | 47      | 1.30   | -        | 28.34  | 27.47 | 3.34 | -    |

## BT-EDR(3Mbps)

## 2480MHz\_TX

10/11/2017



| 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   | 2.48G   | 95.94    | Inf      | -Inf   | 30.78  | 3    | Horizontal | 57      | 1.09   | -        | 65.17  | 27.45 | 3.33 | -    |
| AV   | 2.5G    | 45.77    | 54.00    | -8.23  | 30.85  | 3    | Horizontal | 57      | 1.09   | -        | 14.92  | 27.50 | 3.35 | -    |
| PK   | 2.48G   | 99.75    | Inf      | -Inf   | 30.78  | 3    | Horizontal | 57      | 1.09   | -        | 68.97  | 27.45 | 3.33 | -    |
| PK   | 2.4926G | 58.73    | 74.00    | -15.27 | 30.82  | 3    | Horizontal | 57      | 1.09   | -        | 27.91  | 27.48 | 3.34 | -    |