

## MEASUREMENT REPORT

### FCC PART 15.247 / ISCED RSS-247 Bluetooth (HDR)

**Applicant Name:**

Apple Inc.  
One Apple Park Way  
Cupertino, CA 95014  
United States

**Date of Testing:**

06/12/2020 - 08/18/2020

**Test Site/Location:**

PCTEST Lab. Morgan Hill, CA, USA

**Test Report Serial No.:**

1C2004270018-06.BCG

**FCC ID:**

BCG-A2375

**IC:**

579C-A2375

**APPLICANT:**

Apple Inc.

**Application Type:**

Certification

**Model/HVIN:**

A2375

**EUT Type:**

Watch

**Max. RF Output Power:**

37.497 mW (15.74 dBm) Peak Conducted

**Frequency Range:**

2404 – 2478MHz

**FCC Classification:**

Digital Transmission System (DTS)

**FCC Rule Part(s):**

Part 15 Subpart C (15.247)

**ISED Specification:**

RSS-247 Issue 2

**Test Procedure(s):**

ANSI C63.10-2013, KDB 558074 D01 v05r02

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013 and KDB 558074 D01 v05r02. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

  
Randy Ortanez  
President

|                                                |                                                                                                                                                                                                                      |                                               |                                        |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------|
| <b>FCC ID:</b> BCG-A2375                       |  <b>PCTEST</b><br>Proud to be part of  element | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C2004270018-06.BCG | <b>Test Dates:</b><br>06/12/2020 - 08/18/2020                                                                                                                                                                        | <b>EUT Type:</b><br>Watch                     | Page 1 of 57                           |

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| <b>Test Report S/N:</b><br>1C2004270018-06.BCG | <b>Test Dates:</b><br>06/12/2020 - 08/18/2020                                                                                                                                                                | <b>EUT Type:</b><br>Watch                     | Page 2 of 57                           |

## 1.0 INTRODUCTION

### 1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

### 1.2 PCTEST Test Location

These measurement tests were conducted at the PCTEST facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

### 1.3 Test Facility / Accreditations

Measurements were performed at PCTEST located in Morgan Hill, CA 95037, U.S.A.

- PCTEST is an ISO 17025-2005 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISSED Standards (RSS).
- PCTEST facility is a registered (22831) test laboratory with the site description on file with ISSED.

|                                         |                                                                                                                                                                                                                      |                                       |                                 |
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| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020                                                                                                                                                                               | EUT Type:<br>Watch                    | Page 3 of 57                    |

## 2.0 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Watch FCC ID: BCG-A2375**. The data found in this test report was taken with the EUT operating in Bluetooth HDR mode. While in HDR mode, the Bluetooth transmitter hops pseudo-randomly between 75 channels.

**Note:** This device is capable of operating in hopping and non-hopping mode. The EUT can hop between 75 different channels in the 2400 – 2483.5MHz band.

**Test Device Serial No.:** GY6CP00TQ60V, FN60184090CMLHN41

### 2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 802.11b/g/n WLAN, 802.11a/n UNII, Bluetooth (1x, EDR, HDR4, HDR8, LE), NFC, UWB

| Ch. | Frequency (MHz) |
|-----|-----------------|
| 1   | 2404            |
| :   | :               |
| 38  | 2441            |
| :   | :               |
| 75  | 2478            |

**Table 2-1. Bluetooth HDR Frequency / Channel Operations**

| Measured Duty Cycles |     |                |
|----------------------|-----|----------------|
| HDR Mode             |     | Duty Cycle (%) |
| 4M                   | ePA | 100.0          |
|                      | iPA | 100.0          |
| 8M                   | ePA | 100.0          |
|                      | iPA | 100.0          |

**Table 2-2. Measured Duty Cycles**

|                                                |                                                                                                                                                                                                              |                                               |                                        |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------|
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This device supports simultaneous multi radio transmission feature, which allows multiple radios to transmit simultaneously at the same antenna. The table below shows all the possible multi radio TX combinations:

| Simultaneous Tx Config | Antenna FCM |                      |                    |           |            |
|------------------------|-------------|----------------------|--------------------|-----------|------------|
|                        | WLAN        | Bluetooth            | LTE/WCDMA          | UNII      | UWB        |
|                        | 802.11b/g/n | BDR, EDR, HDR4/8, LE | Mid Band/High Band | 802.11a/n | Ch.5, Ch.9 |
| Config 1               | ✓           | ✗                    | ✗                  | ✗         | ✓          |
| Config 2               | ✗           | ✓                    | ✗                  | ✗         | ✓          |
| Config 3               | ✗           | ✗                    | ✓                  | ✗         | ✓          |
| Config 4               | ✗           | ✓                    | ✓                  | ✗         | ✗          |
| Config 5               | ✓           | ✗                    | ✓                  | ✗         | ✗          |
| Config 6               | ✗           | ✗                    | ✓                  | ✓         | ✗          |
| Config 7               | ✗           | ✓                    | ✗                  | ✓         | ✗          |
| Config 8               | ✓           | ✗                    | ✓                  | ✗         | ✓          |
| Config 9               | ✗           | ✓                    | ✓                  | ✗         | ✓          |
| Config 10              | ✗           | ✓                    | ✓                  | ✓         | ✗          |

**Table 2-3. Simultaneous Transmission Configurations**

✓ = Support; ✗ = NOT Support

**Note:**

All the above simultaneous transmission configurations have been tested and the worst case configuration was found to be Config 8 (WLAN, LTE, and UWB).

## 2.3 Antenna Description

Following antenna was used for the testing.

| Frequency [GHz] | Antenna Gain (dBi) |
|-----------------|--------------------|
| 2.4             | -11.10             |

**Table 2-4. Highest Antenna Gain**

|                                         |                                                                                                                                                                                                              |                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
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## 2.4 Test Support Equipment

|   |                               |        |           |      |                   |
|---|-------------------------------|--------|-----------|------|-------------------|
| 1 | Apple MacBook                 | Model: | A1398     | S/N: | C02QT94WG8WP      |
|   | w/AC/DC Adapter               | Model: | A1435     | S/N: | N/A               |
| 2 | Apple USB Cable               | Model: | Kanzi     | S/N: | 325316            |
|   | w/ Charging Dock              | Model: | FAPS73    | S/N: | 17481001022       |
|   | w/ Dock                       | Model: | X241      | S/N: | GW17F01ST22       |
| 3 | USB Lightning Cable           | Model: | N/A       | S/N: | N/A               |
|   | w/ AC Adapter                 | Model: | A1385     | S/N: | N/A               |
| 4 | Wireless Charging Pad (WCP)   | Model: | EVT       | S/N: | DLC9223004YLNWL43 |
|   | Wireless Charging Pad (WCP)   | Model: | EVT       | S/N: | DLC9104001JLNWK18 |
| 5 | Test Pathfinder CANMORE Board | Model: | X1658     | S/N: | 920-08295-03      |
|   | w/ Test Socket BANKSY         | Model: | EVT X1658 | S/N: | 920-08658-03      |
| 6 | DC Power Supply               | Model: | KPS3010D  | S/N: | N/A               |

**Table 2-5. Test Support Equipment List**

|                                                |                                                                                     |                                               |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------|
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## 2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2013 and KDB 558074 D01 v05r02. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups, and 7.2, 7.3, 7.4, 7.5, and 7.6 for antenna port conducted emissions test setups.

The worst case configuration was investigated for all combinations of the three materials, aluminum, stainless steel, and titanium and various types of wristbands, metal and non-metal wristbands. The store display sample was investigated and determined as not the worst case. The EUT was also investigated with and without its wireless charger. The worst case configuration was used for all testing

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with the highest power and worst case configuration. The emissions below 1GHz and above 18GHz were tested with the highest transmitting power and the worst case channel.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

For both AC line conducted emissions and radiated emissions below 1GHz, the following configurations were investigated, and the worst case was reported.

- EUT powered by AC/DC adapter via USB cable with wireless charger
- EUT powered by host PC via USB cable with wireless charger

## 2.6 Software and Firmware

The test was conducted with firmware version wOS 7.0 installed on the EUT.

## 2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

|                                                |                                                                                                                                                                                                |                                               |                                        |
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## 3.0 DESCRIPTION OF TESTS

### 3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 558074 D01 v05r02 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

### 3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is EPCOS 2X60A Power Line Filter (100dB Attenuation, 14kHz-18GHz) and the two EPCOs 2X48A filters (100dB Minimum Insertion Loss, 14kHz - 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 7.10. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is Rohde & Schwarz EMC32, Version 10.50.40.

|                                         |                                                                                                                                                                                                                      |                                       |                                 |
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### 3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

Per KDB 414788, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was rotated about its vertical axis while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

### 3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

|                                                |                                                                                                                                                                                                              |                                               |                                        |
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| <b>Test Report S/N:</b><br>1C2004270018-06.BCG | <b>Test Dates:</b><br>06/12/2020 - 08/18/2020                                                                                                                                                                | <b>EUT Type:</b><br>Watch                     | Page 9 of 57                           |

## 4.0 ANTENNA REQUIREMENTS

### Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antenna(s) of the EUT are **permanently attached**.
- There are no provisions for connection to an external antenna.

### Conclusion:

The EUT complies with the requirement of §15.203.

|                                         |                                                                                                                                                                                                                      |                                       |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
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| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020                                                                                                                                                                               | EUT Type:<br>Watch                    | Page 10 of 57                   |

## 5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the  $U_{\text{CISPR}}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

| Contribution                     | Expanded Uncertainty ( $\pm$ dB) |
|----------------------------------|----------------------------------|
| Conducted Bench Top Measurements | 1.30                             |
| Line Conducted Disturbance       | 2.34                             |
| Radiated Disturbance (<1GHz)     | 4.15                             |
| Radiated Disturbance (>1GHz)     | 4.59                             |
| Radiated Disturbance (>18GHz)    | 4.96                             |

|                                         |                                                                                                                                  |                                 |
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| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020                                                                                           | EUT Type:<br>Watch              |
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## 6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

| Manufacturer         | Model       | Description                                    | Cal Date   | Cal Interval | Cal Due    | Serial Number |
|----------------------|-------------|------------------------------------------------|------------|--------------|------------|---------------|
| Agilent Technologies | N9030A      | 3Hz-44GHz PXA Signal Analyzer                  | 3/4/2020   | Annual       | 3/4/2021   | MY49430244    |
| Anritsu              | ML2496A     | Power Meter                                    | 10/29/2019 | Annual       | 10/29/2020 | 184005        |
| Anritsu              | MA2411B     | Pulse Power Sensor                             | 10/29/2019 | Annual       | 10/29/2020 | 1726261       |
| Anritsu              | MA2411B     | Pulse Power Sensor                             | 10/29/2019 | Annual       | 10/29/2020 | 1726262       |
| ATM                  | 180-442A-KF | 20dB Nominal Gain Horn Antenna                 | 10/29/2019 | Annual       | 10/29/2020 | T058701-02    |
| COM-POWER            | LIN-120A    | LISN                                           | 3/4/2020   | Annual       | 3/4/2021   | 241297        |
| ETS-Lindgren         | 3142E-PA    | Pre-Amplifier (30MHz - 6GHz)                   | 9/19/2019  | Annual       | 9/19/2020  | 213236        |
| ETS-Lindgren         | 3142E       | BiConiLog Antenna (30MHz - 6GHz)               | 1/6/2020   | Annual       | 1/6/2021   | 224569        |
| ETS-Lindgren         | 3117        | Double Ridged Guide Antenna (1-18 GHz)         | 4/21/2020  | Annual       | 4/21/2021  | 205956        |
| Rohde & Schwarz      | ESW26       | EMI Test Receiver                              | 6/1/2020   | Annual       | 6/1/2021   | 101299        |
| Rohde & Schwarz      | ESW44       | EMI Test Receiver                              | 9/13/2019  | Annual       | 9/13/2020  | 101570        |
| Rohde & Schwarz      | TS-PR1840   | Pre-Amplifier (18GHz - 40GHz)                  | 9/19/2019  | Annual       | 9/19/2020  | 100051        |
| Rohde & Schwarz      | TC-TA18     | Cross Polarized Vivaldi Antenna (400MHz-18GHz) | 11/14/2019 | Annual       | 11/14/2020 | 101057        |
| Rohde & Schwarz      | HFH2-Z2     | Loop Antenna                                   | 3/12/2020  | Annual       | 3/12/2021  | 100546        |

**Table 6-1. Test Equipment List**

### Note:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

|                                         |                                                                                                                                                                                                              |                                       |                                 |
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## 7.0 TEST RESULTS

### 7.1 Summary

Company Name: Apple Inc.  
FCC ID: BCG-A2375  
FCC Classification: Digital Transmission System (DTS)  
Number of Channels: 75

| FCC Part Section(s) | RSS Section(s)   | Test Description                                                              | Test Limit                                                                                     | Test Condition | Test Result | Reference              |
|---------------------|------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------|-------------|------------------------|
| 15.247(a)(2)        | RSS-247 [5.2]    | 6dB Bandwidth                                                                 | > 500kHz                                                                                       | CONDUCTED      | PASS        | Section 7.2            |
| 15.247(b)(3)        | RSS-247 [5.4(d)] | Transmitter Output Power                                                      | < 1 Watt                                                                                       |                | PASS        | Sections 7.3           |
| 15.247(e)           | RSS-247 [5.2]    | Transmitter Power Spectral Density                                            | < 8dBm / 3kHz Band                                                                             |                | PASS        | Section 7.4            |
| 15.247(d)           | RSS-247 [5.5]    | Band Edge / Out-of-Band Emissions                                             | ≥ 20dBc                                                                                        |                | PASS        | Sections 7.5, 7.6      |
| 15.205<br>15.209    | RSS-Gen [8.9]    | General Field Strength Limits (Restricted Bands and Radiated Emission Limits) | Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9]) | RADIATED       | PASS        | Sections 7.7, 7.8, 7.9 |
| 15.207              | RSS-Gen [8.8]    | AC Conducted Emissions 150kHz – 30MHz                                         | < FCC 15.207 limits (RSS-Gen[8.8])                                                             | LINE CONDUCTED | PASS        | Section 7.10           |

**Table 7-1. Summary of Test Results**

#### Notes:

1. All modes of operation were investigated. The test results shown in the following sections represent the worst case emissions.
2. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
3. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
4. For radiated band edge, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST "Chamber Automation," Version 1.3.1.

|                                         |                                                                                     |                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020                                              | EUT Type:<br>Watch                    | Page 13 of 57                   |

## 7.2 6dB Bandwidth Measurement – Bluetooth (HDR)

§15.247(a.2); RSS-247 [5.2]

### Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the transmitter antenna terminal of the EUT while the EUT is operating at maximum power and at the appropriate frequencies. All modes of operation were investigated and the worst case configuration results are reported in this section.

***The minimum permissible 6dB bandwidth is 500 kHz.***

### Test Procedure Used

ANSI C63.10-2013 – Section 11.8.2 Option 2  
KDB 558074 D01 v05r02 – Section 8.2

### Test Settings

1. The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to  $X = 6$ . The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 100kHz
3. VBW  $\geq 3 \times$  RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-1. Test Instrument & Measurement Setup**

### Test Notes

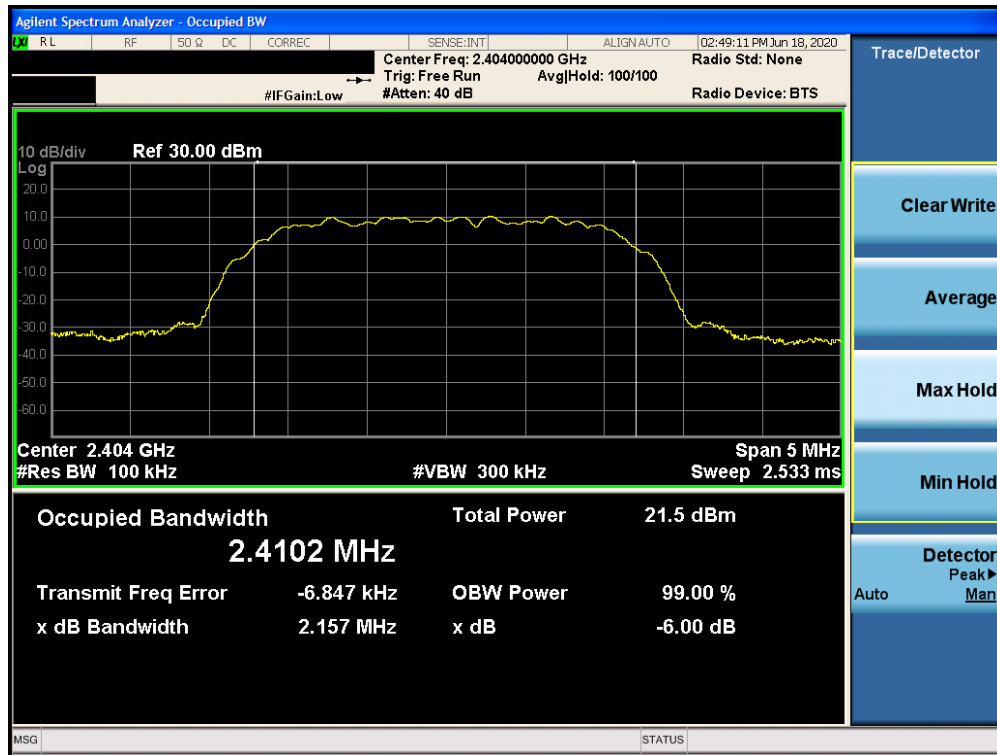
Both power schemes were investigated, and only the worst case is reported.

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 14 of 57                   |

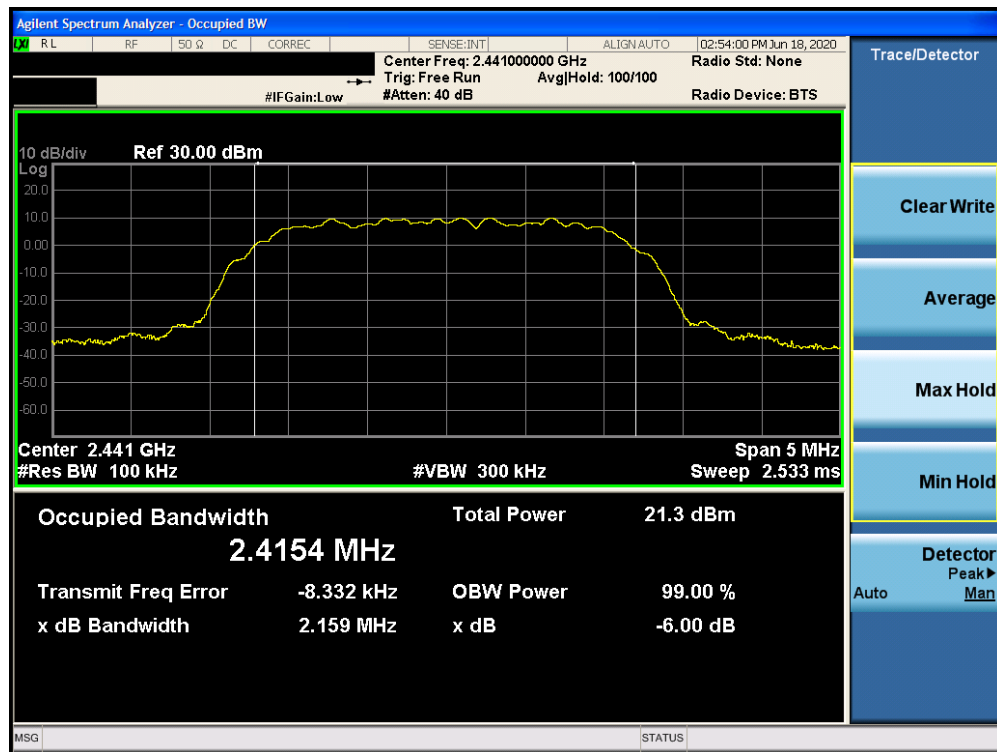
| Frequency [MHz] | Data Rate [Mbps] | Power Scheme | Channel No. | Measured Bandwidth [kHz] | Minimum Bandwidth [kHz] | Pass / Fail |
|-----------------|------------------|--------------|-------------|--------------------------|-------------------------|-------------|
| 2404            | 4.0              | ePA          | 1           | 2157.0                   | 500                     | Pass        |
| 2441            | 4.0              | ePA          | 38          | 2159.0                   | 500                     | Pass        |
| 2478            | 4.0              | ePA          | 75          | 2165.0                   | 500                     | Pass        |
| 2404            | 8.0              | ePA          | 1           | 4163.0                   | 500                     | Pass        |
| 2441            | 8.0              | ePA          | 38          | 4165.0                   | 500                     | Pass        |
| 2478            | 8.0              | ePA          | 75          | 4219.0                   | 500                     | Pass        |

**Table 7-2. Conducted Bandwidth Measurements**

|                                                |                                                                                                                                                                                                              |                                               |                                        |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------|
| <b>FCC ID:</b> BCG-A2375                       |  <b>PCTEST</b><br>Proud to be part of  | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C2004270018-06.BCG | <b>Test Dates:</b><br>06/12/2020 - 08/18/2020                                                                                                                                                                | <b>EUT Type:</b><br>Watch                     | Page 15 of 57                          |

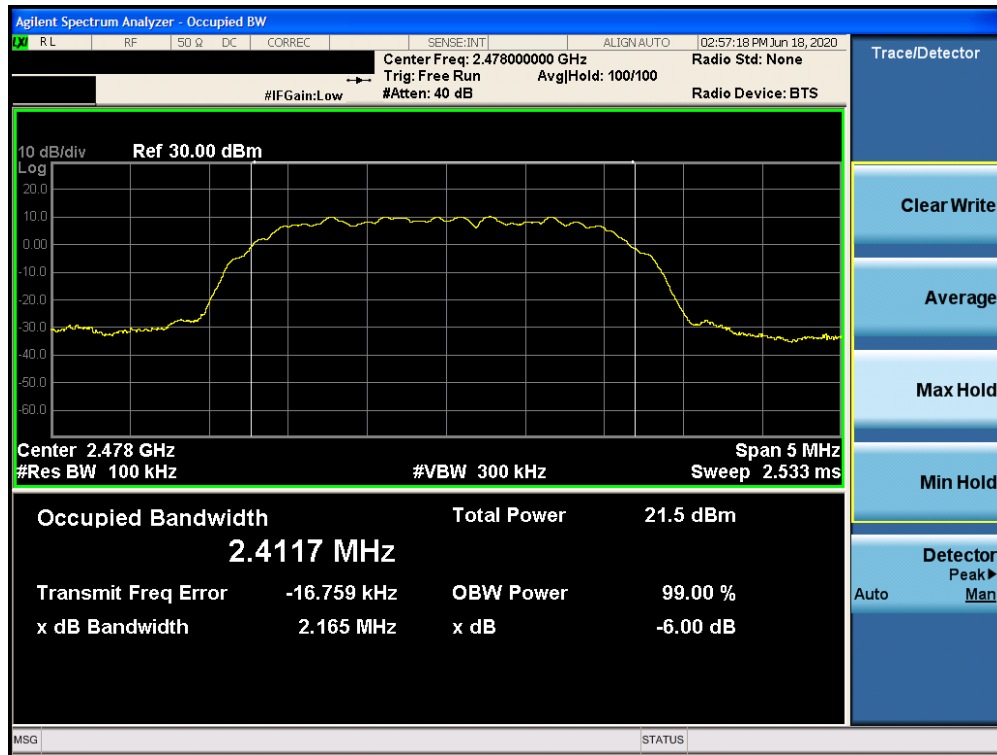


Plot 7-1. 6dB Bandwidth Plot (Bluetooth (HDR4), 4Mbps, ePA – Ch. 1)



Plot 7-2. 6dB Bandwidth Plot (Bluetooth (HDR4), 4Mbps, ePA – Ch. 38)

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 16 of 57                   |

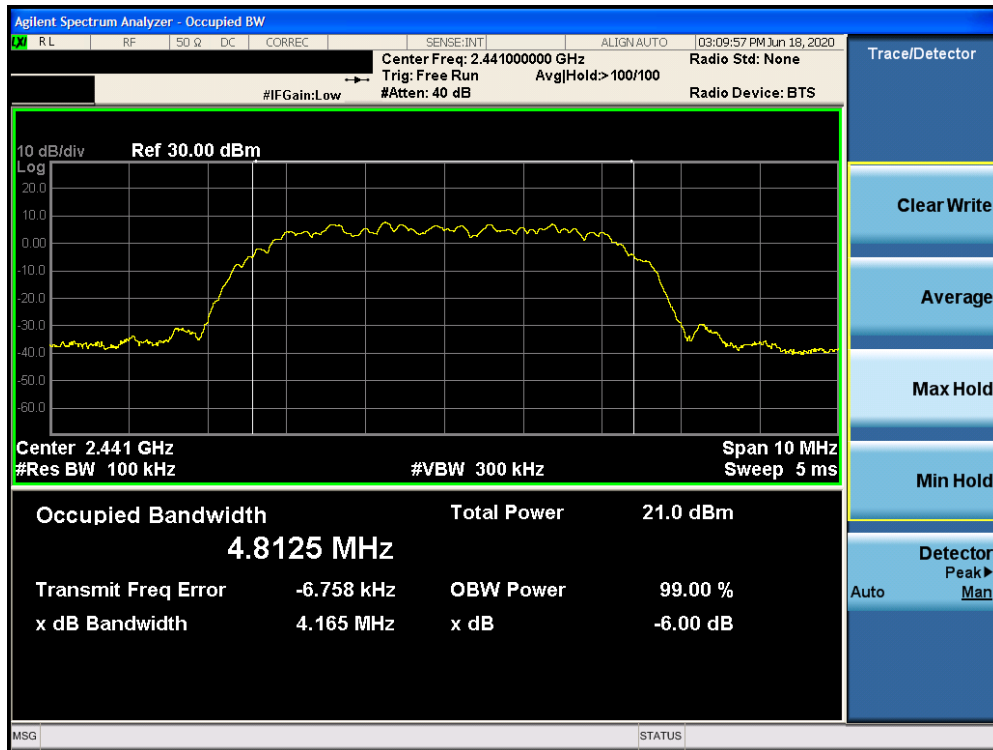


Plot 7-3. 6dB Bandwidth Plot (Bluetooth (HDR4), 4Mbps, ePA – Ch. 75)

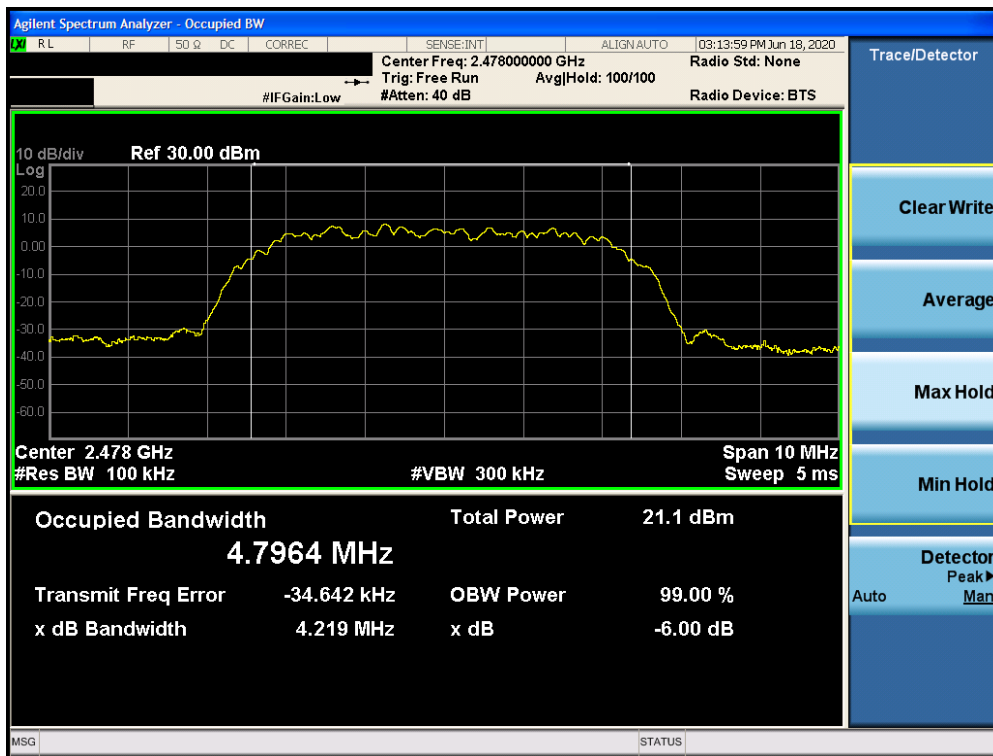


Plot 7-4. 6dB Bandwidth Plot (Bluetooth (HDR8), 8Mbps, ePA – Ch. 1)

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 17 of 57                   |



Plot 7-5. 6dB Bandwidth Plot (Bluetooth (HDR8), 8Mbps, ePA – Ch. 38)



Plot 7-6. 6dB Bandwidth Plot (Bluetooth (HDR8), 8Mbps, ePA – Ch. 75)

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 18 of 57                   |

### 7.3 Output Power Measurement – Bluetooth (HDR)

§15.247(b.3); RSS-247 [5.4(d)]

#### Test Overview and Limits

The transmitter antenna terminal of the EUT is connected to the input of a spectrum analyzer. Measurements are made while the EUT is operating at maximum power and at the appropriate frequencies.

***The maximum peak conducted output power of digital modulation systems operating in the 2400-2483.5 MHz band is 1 Watt.***

***The conducted output power limit on paragraph above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.***

***For DTS employing digital modulation techniques operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W.***

#### Test Procedure Used

KDB 558074 D01 v05r02 – Section 8.3.1.3, 8.3.2.3

ANSI C63.10-2013 – Section 11.9.1.3

ANSI C63.10-2013 – Section 11.9.2.3.2

#### Test Settings

##### Method PKPM1 (Peak Power Measurement)

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

##### Method AVGPM-G (Average Power Measurement)

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

#### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-2. Test Instrument & Measurement Setup for Peak and Average Power Measurement**

#### Test Notes

None

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2375                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
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### 7.3.1 Peak Output Power Measurement – Bluetooth HDR

§15.247(b.3); RSS-247 [5.4(d)]

| Frequency [MHz] | Data Rate [Mbps] | Power Scheme | Channel No. | Peak Conducted Power |        | Ant. Gain [dBi] | EIRP [dBm] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|------------------|--------------|-------------|----------------------|--------|-----------------|------------|------------------|-------------|
|                 |                  |              |             | [dBm]                | [mW]   |                 |            |                  |             |
| 2404            | 4.0              | ePA          | 1           | 15.33                | 34.119 | -11.10          | 4.23       | 36.02            | -31.79      |
| 2441            | 4.0              | ePA          | 38          | 15.73                | 37.411 | -11.10          | 4.63       | 36.02            | -31.39      |
| 2478            | 4.0              | ePA          | 75          | 15.74                | 37.497 | -11.10          | 4.64       | 36.02            | -31.38      |
| 2404            | 4.0              | iPA          | 1           | 11.91                | 15.524 | -11.10          | 0.81       | 36.02            | -35.21      |
| 2441            | 4.0              | iPA          | 38          | 11.69                | 14.757 | -11.10          | 0.59       | 36.02            | -35.43      |
| 2478            | 4.0              | iPA          | 75          | 12.12                | 16.293 | -11.10          | 1.02       | 36.02            | -35.00      |
| 2404            | 8.0              | ePA          | 1           | 15.27                | 33.651 | -11.10          | 4.17       | 36.02            | -31.85      |
| 2441            | 8.0              | ePA          | 38          | 15.73                | 37.411 | -11.10          | 4.63       | 36.02            | -31.39      |
| 2478            | 8.0              | ePA          | 75          | 15.35                | 34.277 | -11.10          | 4.25       | 36.02            | -31.77      |
| 2404            | 8.0              | iPA          | 1           | 11.81                | 15.171 | -11.10          | 0.71       | 36.02            | -35.31      |
| 2441            | 8.0              | iPA          | 38          | 11.66                | 14.655 | -11.10          | 0.56       | 36.02            | -35.46      |
| 2478            | 8.0              | iPA          | 75          | 11.88                | 15.417 | -11.10          | 0.78       | 36.02            | -35.24      |

**Table 7-3. Peak Conducted Output Power Measurements (Bluetooth HDR)**

|                                         |                                                                                     |                                       |  |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: BCG-A2375                       |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020                                              | EUT Type:<br>Watch                    |  | Page 20 of 57                   |

### 7.3.2 Average Output Power Measurement – Bluetooth HDR

§15.247(b.3); RSS-247 [5.4(d)]

| Frequency [MHz] | Data Rate [Mbps] | Power Scheme | Channel No. | Average Conducted Power |        | Ant. Gain [dBi] | EIRP [dBm] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|------------------|--------------|-------------|-------------------------|--------|-----------------|------------|------------------|-------------|
|                 |                  |              |             | [dBm]                   | [mW]   |                 |            |                  |             |
| 2404            | 4.0              | ePA          | 1           | 12.71                   | 18.664 | -11.10          | 1.61       | 36.02            | -34.41      |
| 2441            | 4.0              | ePA          | 38          | 13.00                   | 19.953 | -11.10          | 1.90       | 36.02            | -34.12      |
| 2478            | 4.0              | ePA          | 75          | 12.75                   | 18.836 | -11.10          | 1.65       | 36.02            | -34.37      |
| 2404            | 4.0              | iPA          | 1           | 9.31                    | 8.531  | -11.10          | -1.79      | 36.02            | -37.81      |
| 2441            | 4.0              | iPA          | 38          | 9.05                    | 8.035  | -11.10          | -2.05      | 36.02            | -38.07      |
| 2478            | 4.0              | iPA          | 75          | 9.50                    | 8.913  | -11.10          | -1.60      | 36.02            | -37.62      |
| 2404            | 8.0              | ePA          | 1           | 12.68                   | 18.535 | -11.10          | 1.58       | 36.02            | -34.44      |
| 2441            | 8.0              | ePA          | 38          | 13.00                   | 19.953 | -11.10          | 1.90       | 36.02            | -34.12      |
| 2478            | 8.0              | ePA          | 75          | 12.69                   | 18.578 | -11.10          | 1.59       | 36.02            | -34.43      |
| 2404            | 8.0              | iPA          | 1           | 9.25                    | 8.414  | -11.10          | -1.85      | 36.02            | -37.87      |
| 2441            | 8.0              | iPA          | 38          | 9.06                    | 8.054  | -11.10          | -2.04      | 36.02            | -38.06      |
| 2478            | 8.0              | iPA          | 75          | 9.21                    | 8.337  | -11.10          | -1.89      | 36.02            | -37.91      |

**Table 7-4. Average Conducted Output Power Measurements (Bluetooth HDR)**

|                                         |                                                                                     |                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
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## 7.4 Power Spectral Density – Bluetooth (HDR)

§15.247(e); RSS-247 [5.2]

### Test Overview and Limit

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power and at the appropriate frequencies.

***The maximum permissible power spectral density is 8 dBm in any 3 kHz band.***

### Test Procedure Used

ANSI C63.10-2013 – Section 11.10.2 Method PKPSD

KDB 558074 D01 v05r02 – Section 8.4 DTS Maximum Power Spectral Density level in the fundamental emission

### Test Settings

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW = 1MHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-3. Test Instrument & Measurement Setup**

### Test Notes

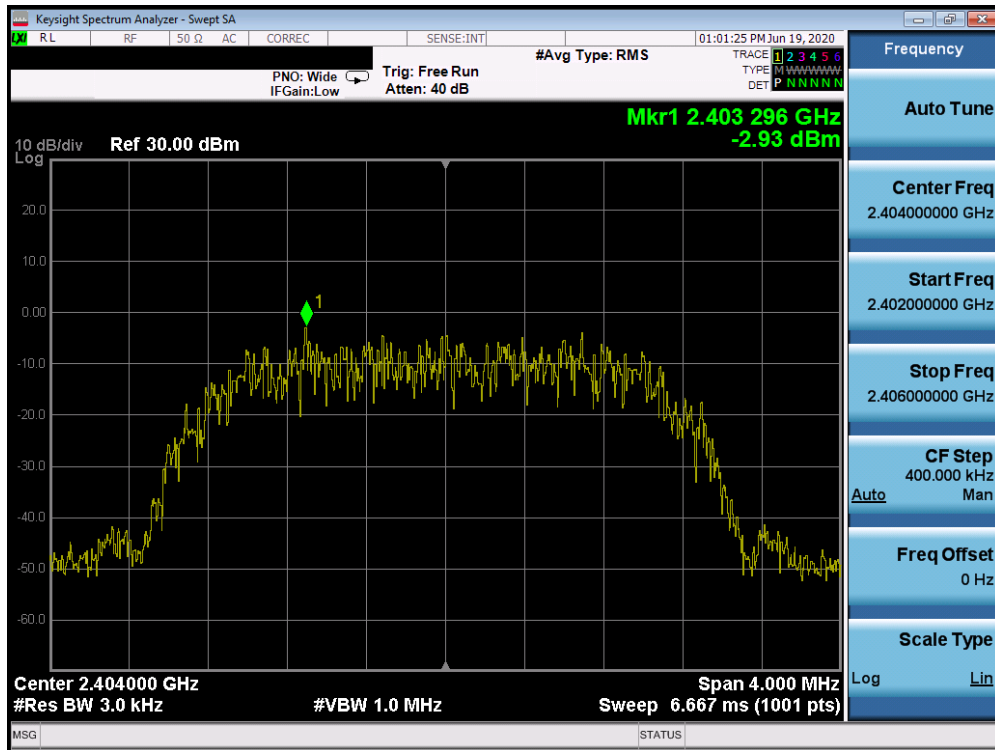
None

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 22 of 57                   |

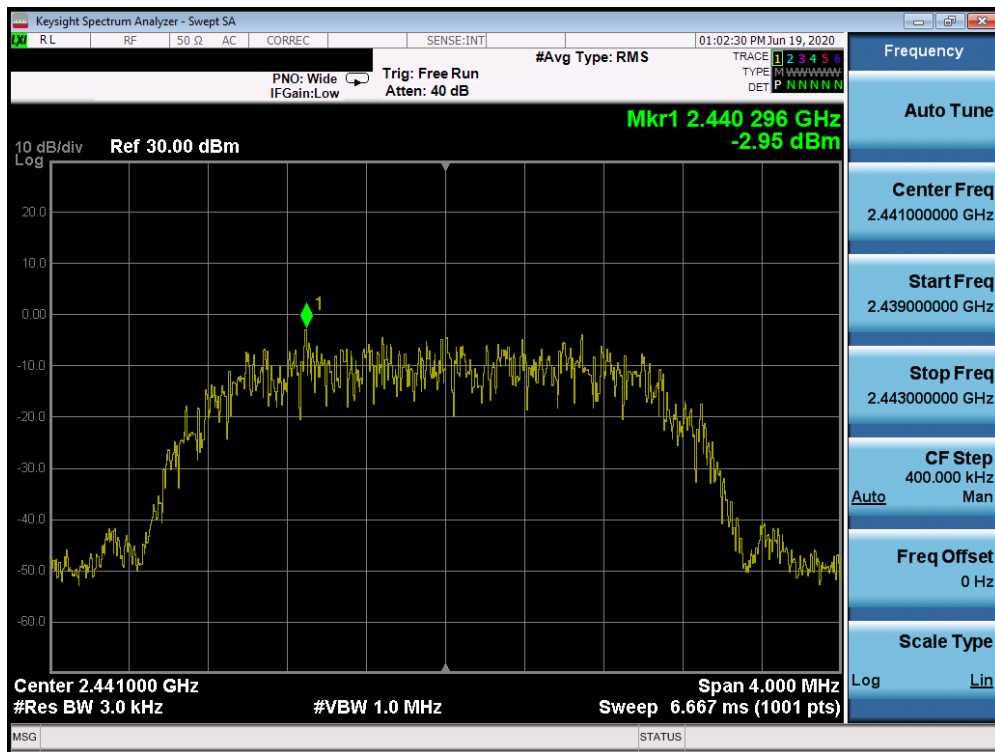
| Frequency [MHz] | Data Rate [Mbps] | Power Scheme | Channel No. | Measured Power Spectral Density [dBm / 3kHz] | Maximum Permissible Power Density [dBm / 3kHz] | Margin [dB] |
|-----------------|------------------|--------------|-------------|----------------------------------------------|------------------------------------------------|-------------|
| 2404            | 4.0              | ePA          | 1           | -2.93                                        | 8.0                                            | -10.93      |
| 2441            | 4.0              | ePA          | 38          | -2.95                                        | 8.0                                            | -10.95      |
| 2478            | 4.0              | ePA          | 75          | -2.57                                        | 8.0                                            | -10.57      |
| 2404            | 4.0              | iPA          | 1           | -7.35                                        | 8.0                                            | -15.35      |
| 2441            | 4.0              | iPA          | 38          | -7.62                                        | 8.0                                            | -15.62      |
| 2478            | 4.0              | iPA          | 75          | -6.90                                        | 8.0                                            | -14.90      |
| 2404            | 8.0              | ePA          | 1           | -3.44                                        | 8.0                                            | -11.44      |
| 2441            | 8.0              | ePA          | 38          | -3.38                                        | 8.0                                            | -11.38      |
| 2478            | 8.0              | ePA          | 75          | -2.89                                        | 8.0                                            | -10.89      |
| 2404            | 8.0              | iPA          | 1           | -7.56                                        | 8.0                                            | -15.56      |
| 2441            | 8.0              | iPA          | 38          | -7.77                                        | 8.0                                            | -15.77      |
| 2478            | 8.0              | iPA          | 75          | -7.20                                        | 8.0                                            | -15.20      |

**Table 7-5. Conducted Power Density Measurements**

|                                                |                                                                                                                                                                                                                      |                                               |                                        |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------|
| <b>FCC ID:</b> BCG-A2375                       |  <b>PCTEST</b><br>Proud to be part of  element | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C2004270018-06.BCG | <b>Test Dates:</b><br>06/12/2020 - 08/18/2020                                                                                                                                                                        | <b>EUT Type:</b><br>Watch                     | Page 23 of 57                          |

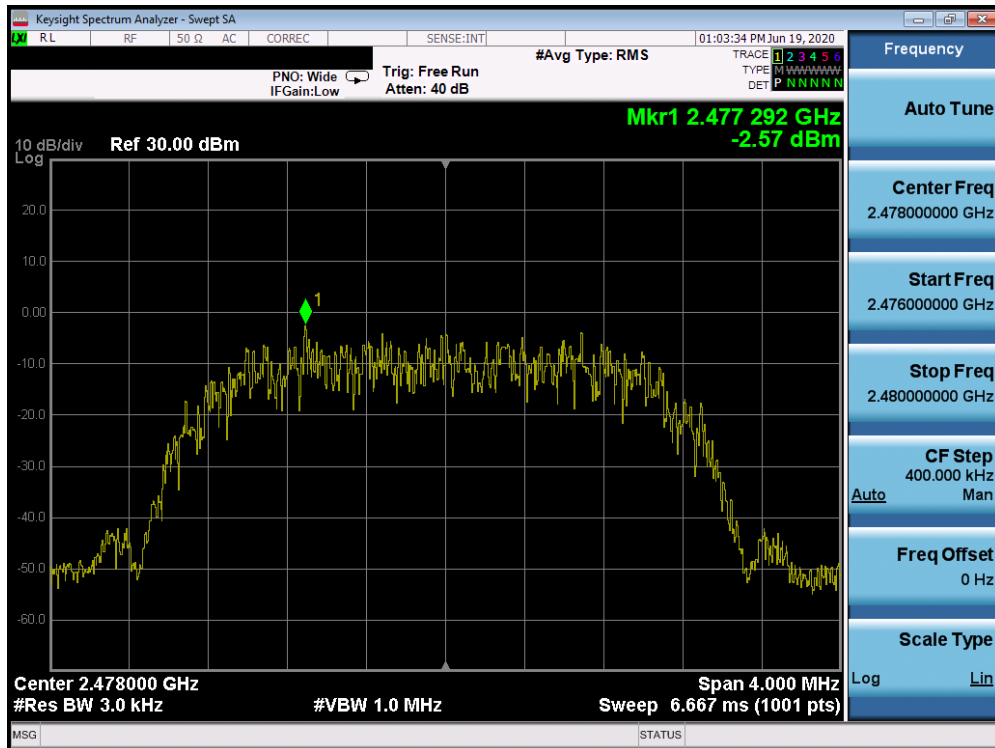


Plot 7-7. Power Spectral Density Plot (Bluetooth (HDR4), 4Mbps, ePA – Ch. 1)

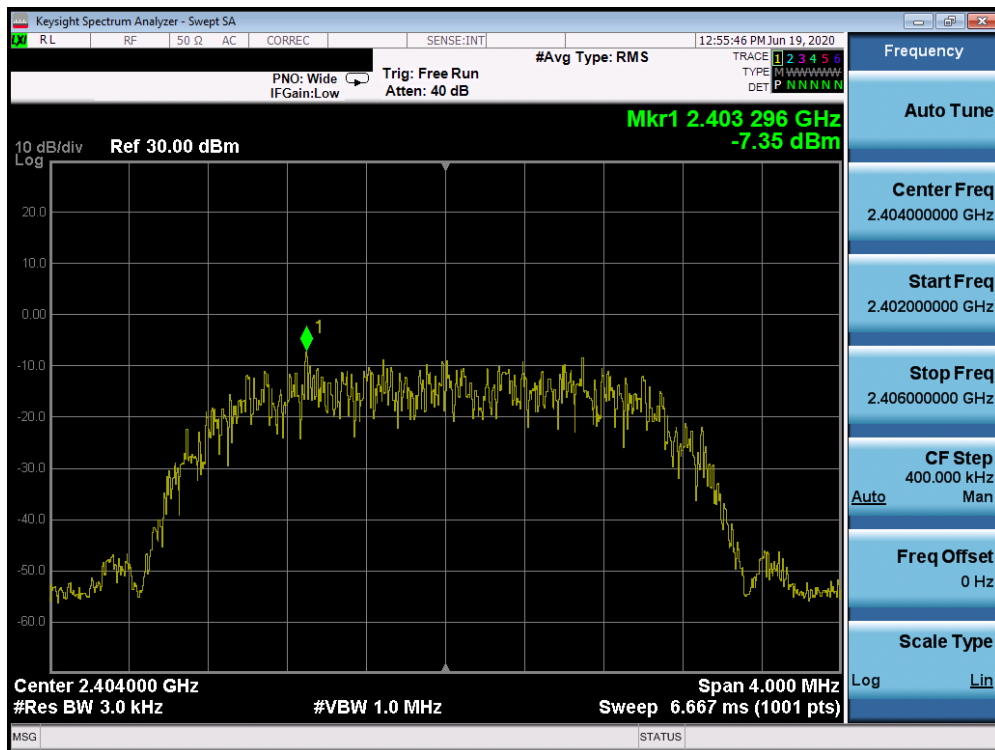


Plot 7-8. Power Spectral Density Plot (Bluetooth (HDR4), 4Mbps, ePA – Ch. 38)

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 24 of 57                   |

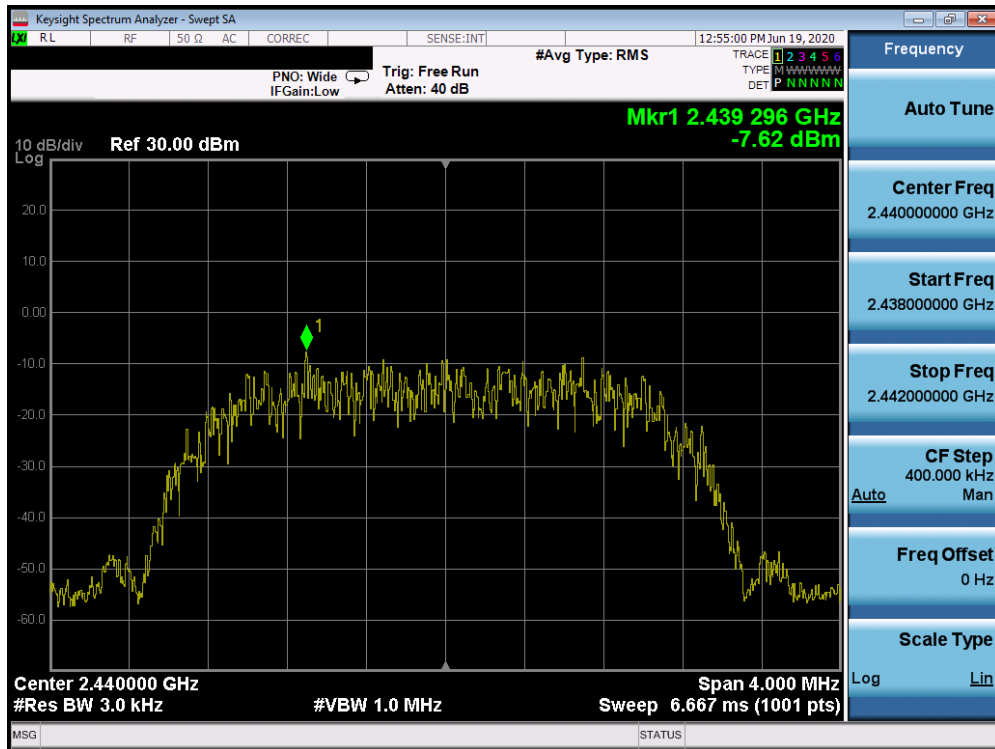


Plot 7-9. Power Spectral Density Plot (Bluetooth (HDR4), 4Mbps, ePA – Ch. 75)

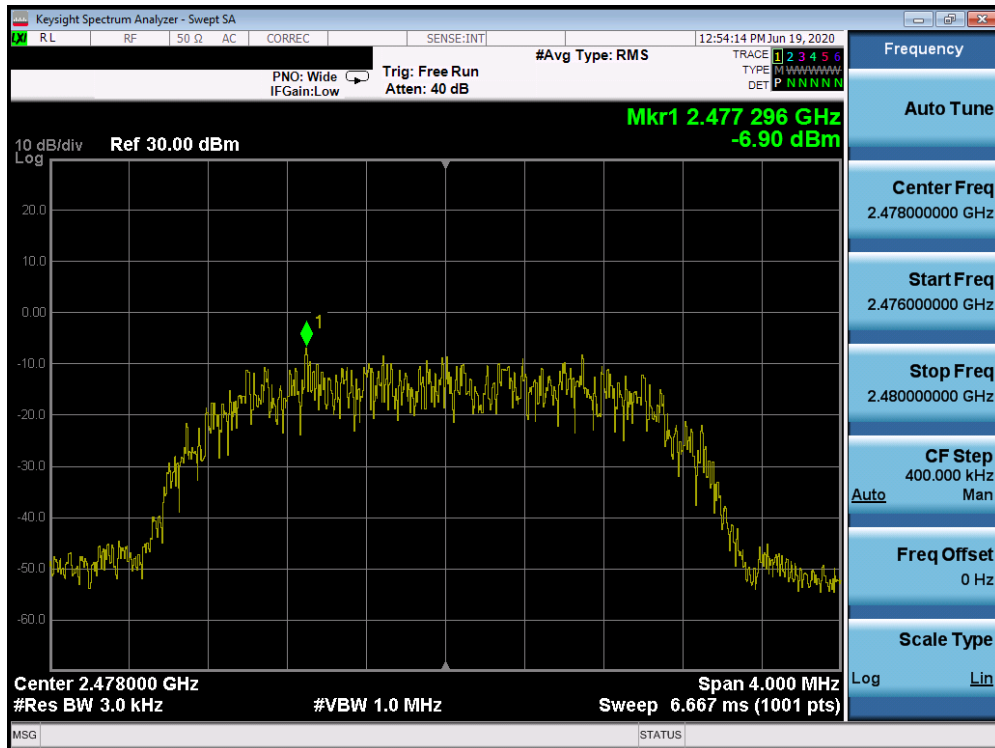


Plot 7-10. Power Spectral Density Plot (Bluetooth (HDR4), 4Mbps, iPA – Ch. 1)

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 25 of 57                   |

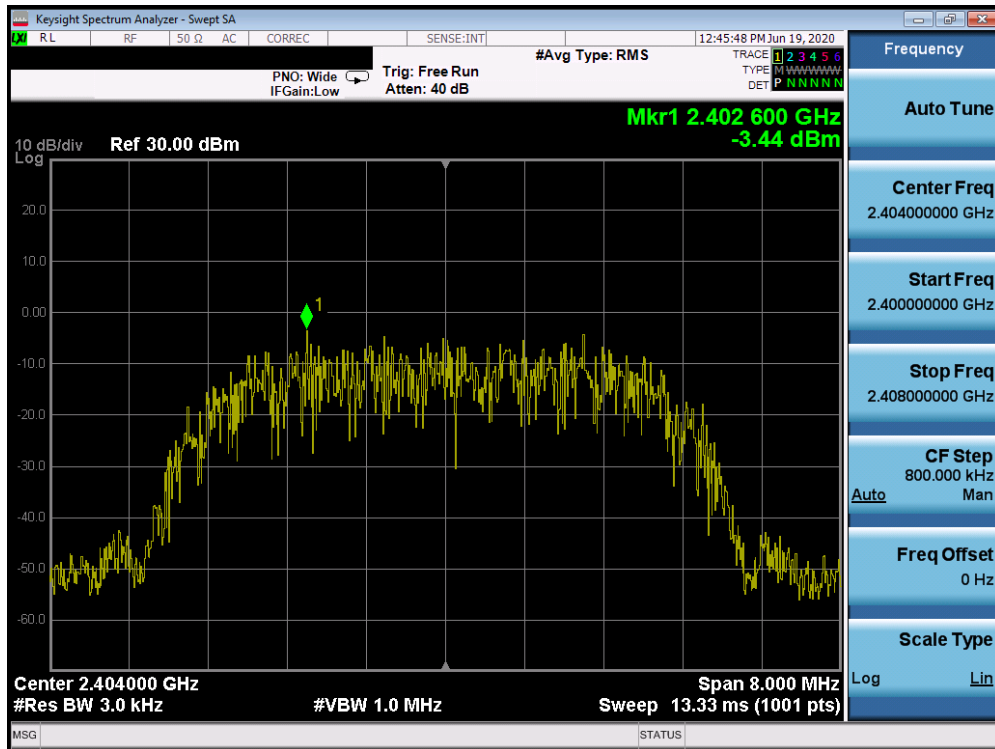


Plot 7-11. Power Spectral Density Plot (Bluetooth (HDR4), 4Mbps, iPA – Ch. 38)

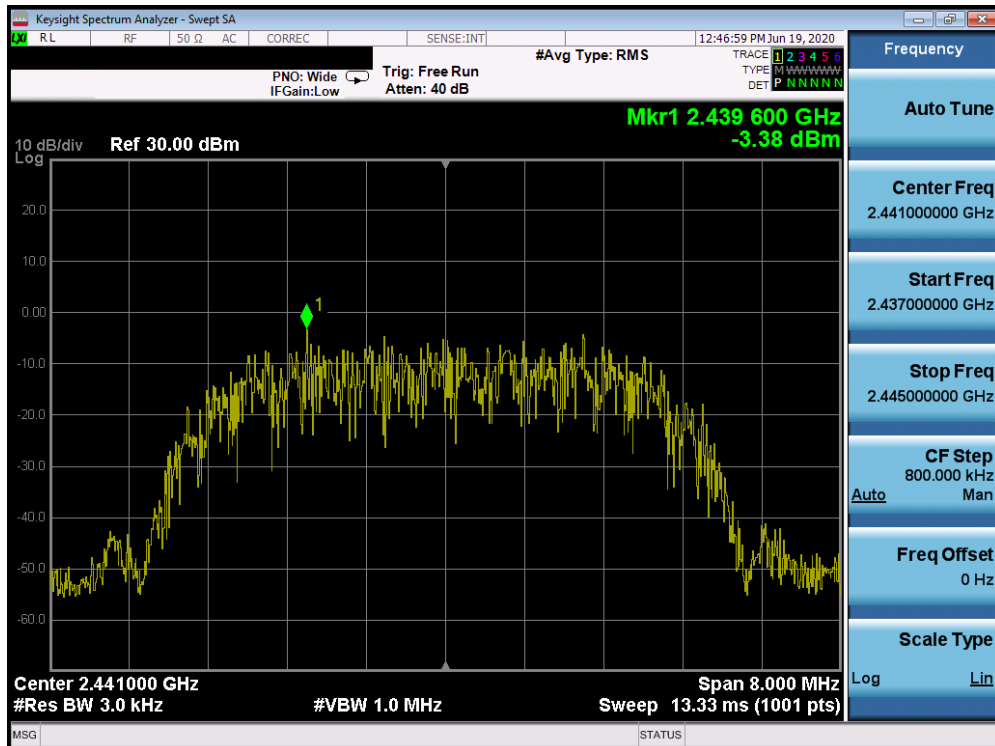


Plot 7-12. Power Spectral Density Plot (Bluetooth (HDR4), 4Mbps, iPA – Ch. 75)

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 26 of 57                   |

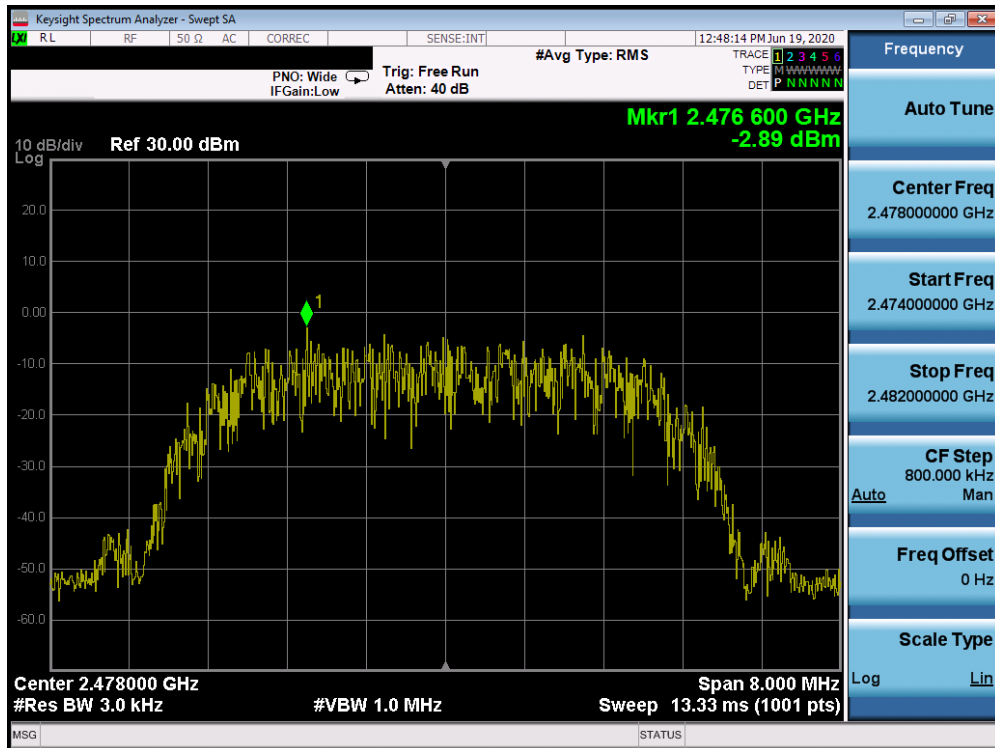


Plot 7-13. Power Spectral Density Plot (Bluetooth (HDR8), 8Mbps, ePA – Ch. 1)

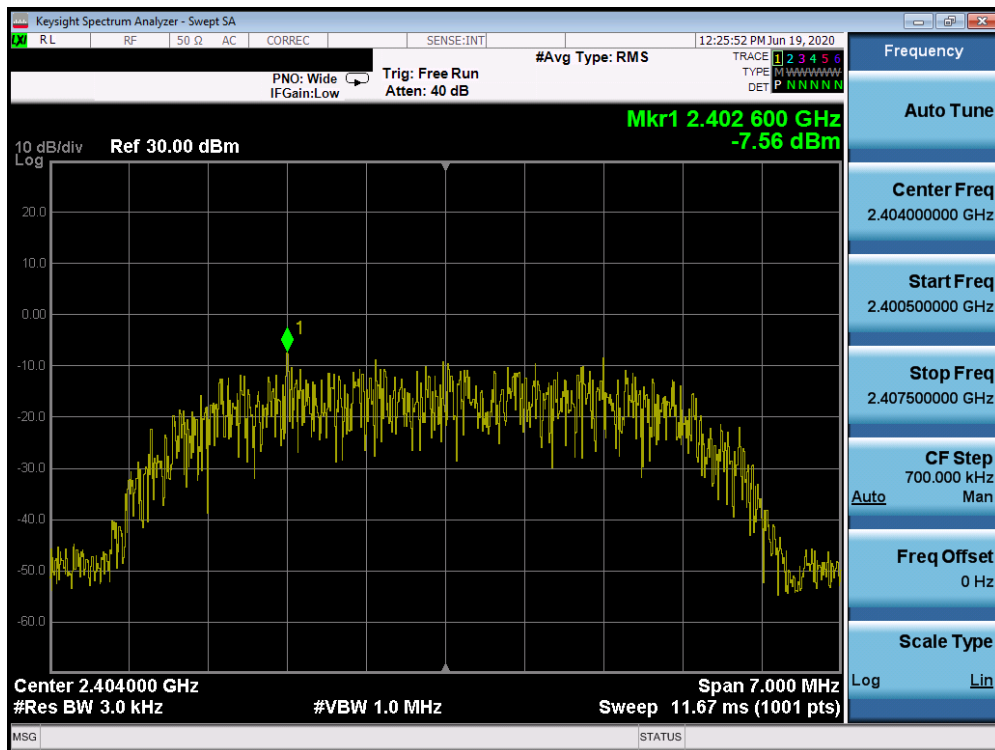


Plot 7-14. Power Spectral Density Plot (Bluetooth (HDR8), 8Mbps, ePA – Ch. 38)

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 27 of 57                   |

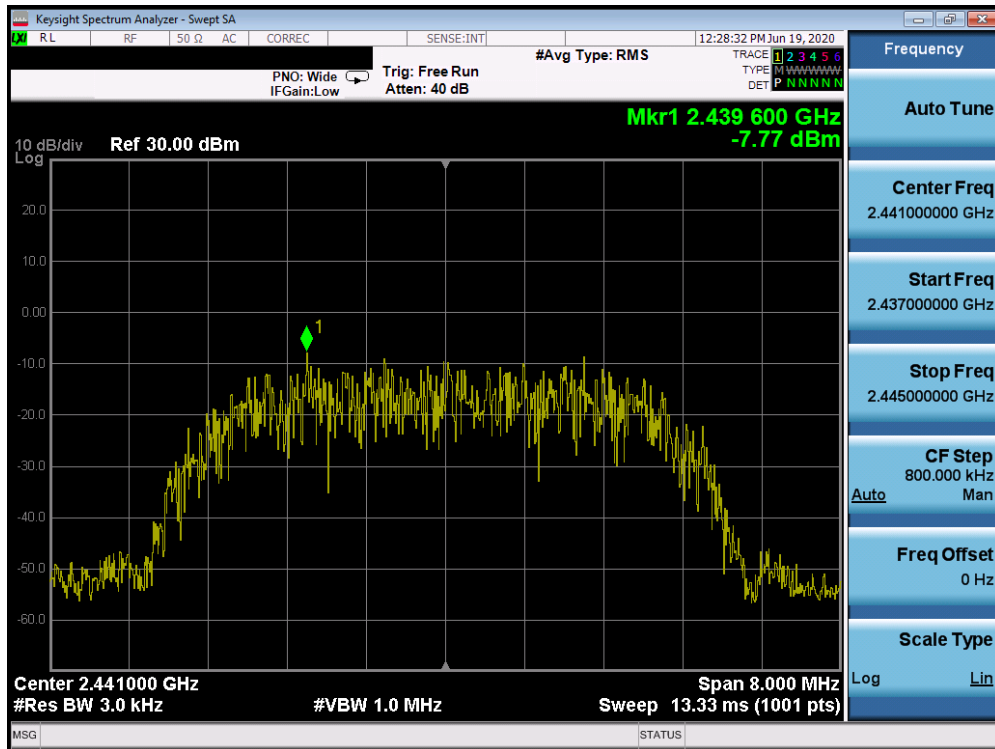


Plot 7-15. Power Spectral Density Plot (Bluetooth (HDR8), 8Mbps, ePA – Ch. 75)

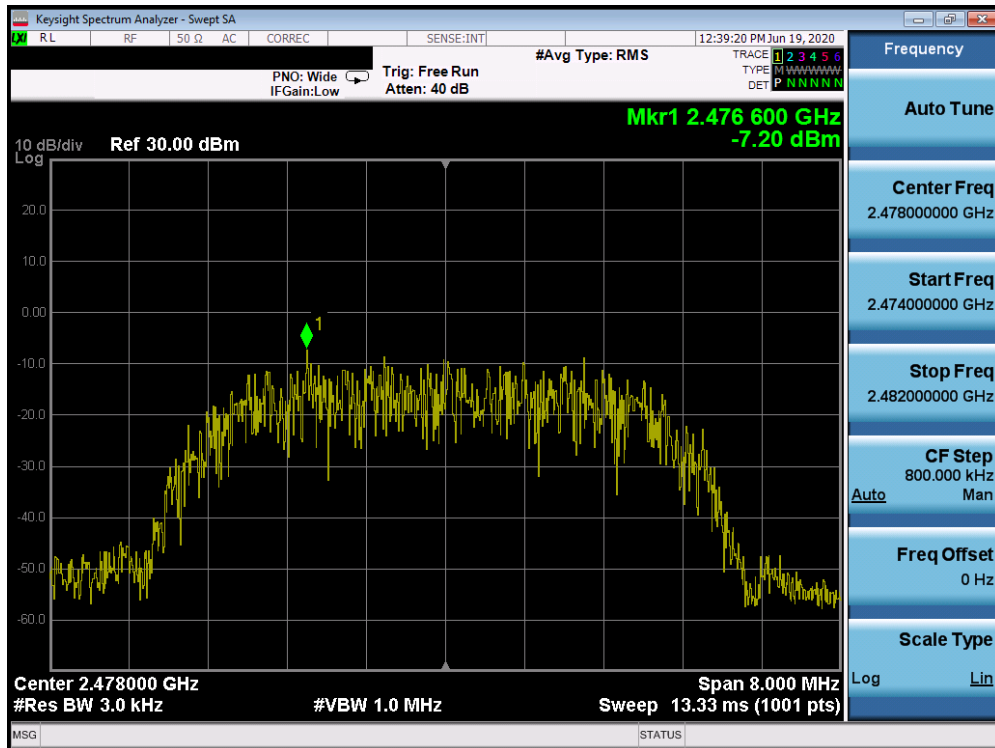


Plot 7-16. Power Spectral Density Plot (Bluetooth (HDR8), 8Mbps, iPA – Ch. 1)

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 28 of 57                   |



Plot 7-17. Power Spectral Density Plot (Bluetooth (HDR8), 8Mbps, iPA – Ch. 38)



Plot 7-18. Power Spectral Density Plot (Bluetooth (HDR8), 8Mbps, iPA – Ch. 75)

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 29 of 57                   |

## 7.5 Conducted Authorized Band Edge

### §15.247(d); RSS-247 [5.5]

#### Test Overview and Limit

For the following out of band conducted spurious emissions plots at the band edge, the EUT was set to transmit at maximum power with the largest packet size available. These settings produced the worst-case emissions.

***The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth.***

#### Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3  
KDB 558074 D01 v05r02 – Section 8.7.2

#### Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 300kHz
5. Detector = Peak
6. Number of sweep points  $\geq 2 \times \text{Span/RBW}$
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

#### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

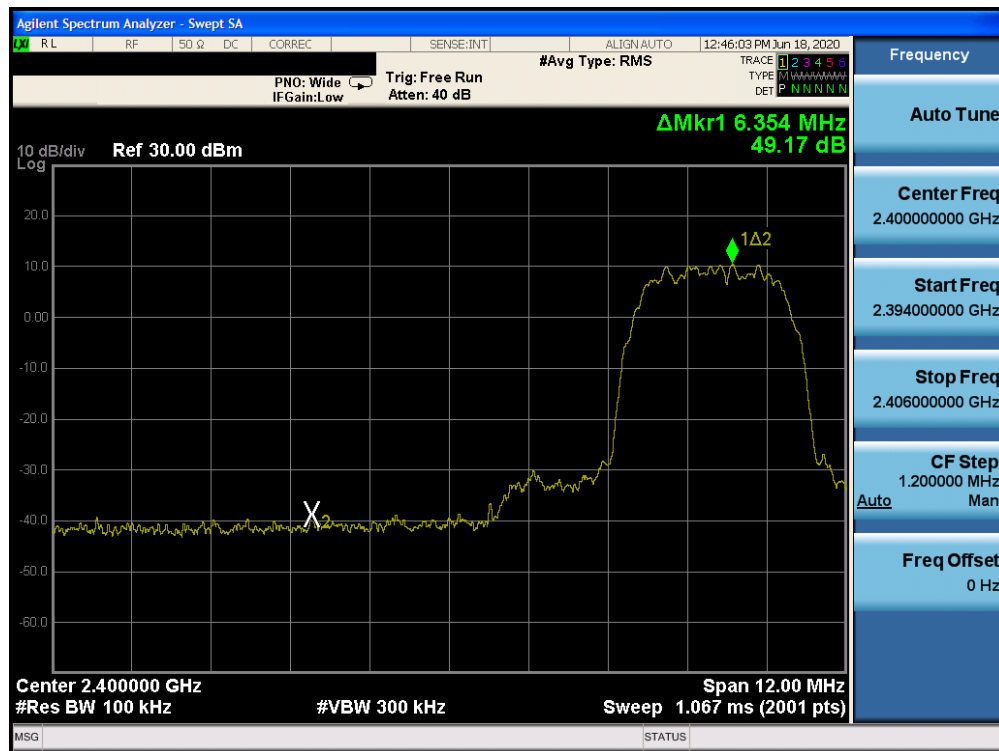


**Figure 7-4. Test Instrument & Measurement Setup**

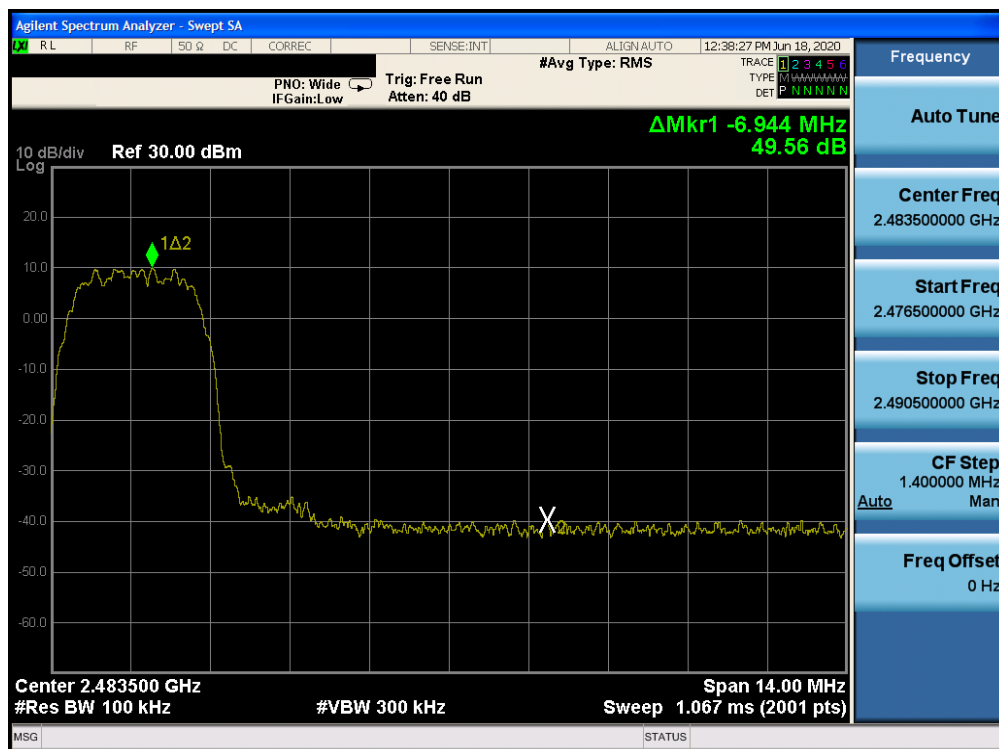
#### Test Notes

Both power schemes were investigated, and only the worst case is reported.

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 30 of 57                   |

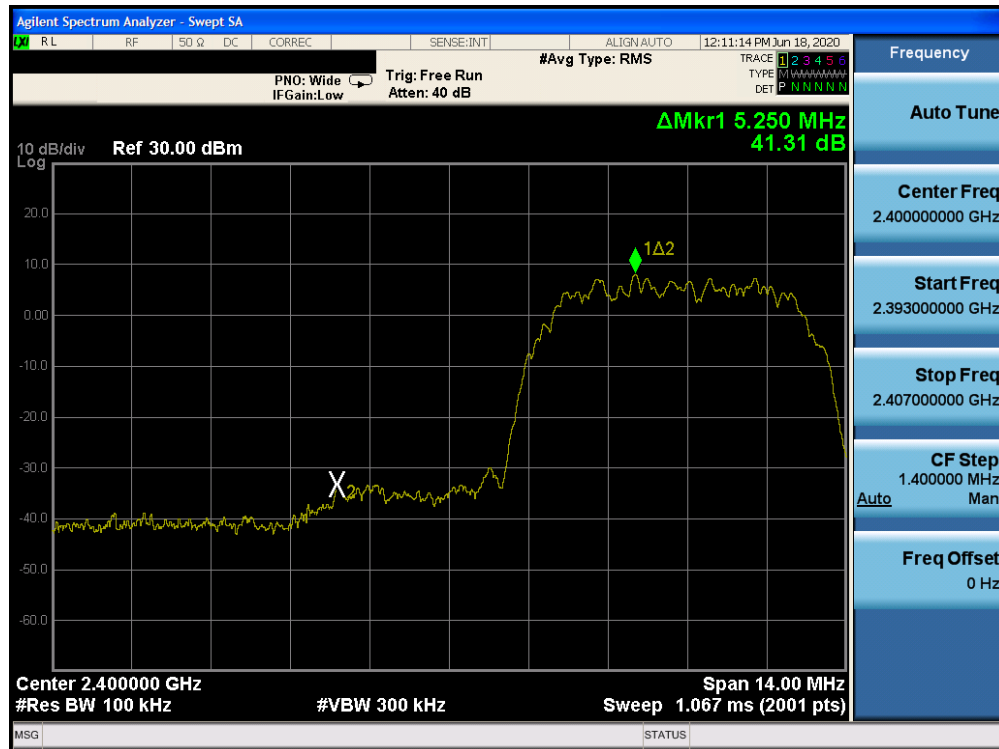


Plot 7-19. Band Edge Plot (Bluetooth (HDR4), ePA – Ch. 1)



Plot 7-20. Band Edge Plot (Bluetooth (HDR4), ePA – Ch. 75)

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 31 of 57                   |



Plot 7-21. Band Edge Plot (Bluetooth (HDR8), ePA - Ch. 1)



Plot 7-22. Band Edge Plot (Bluetooth (HDR8), ePA - Ch. 75)

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 32 of 57                   |

## 7.6 Conducted Spurious Emissions

§15.247(d); RSS-247 [5.5]

### Test Overview and Limit

For the following out of band conducted spurious emissions plots, the EUT was set to transmit at maximum power with the largest packet size available. The worst case spurious emissions were found in this configuration.

***The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 8.5 of KDB 558074 D01 v05r02 and Section 11.11.3 of ANSI C63.10-2013.***

### Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3  
KDB 558074 D01 v05r02 – Section 8.5

### Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



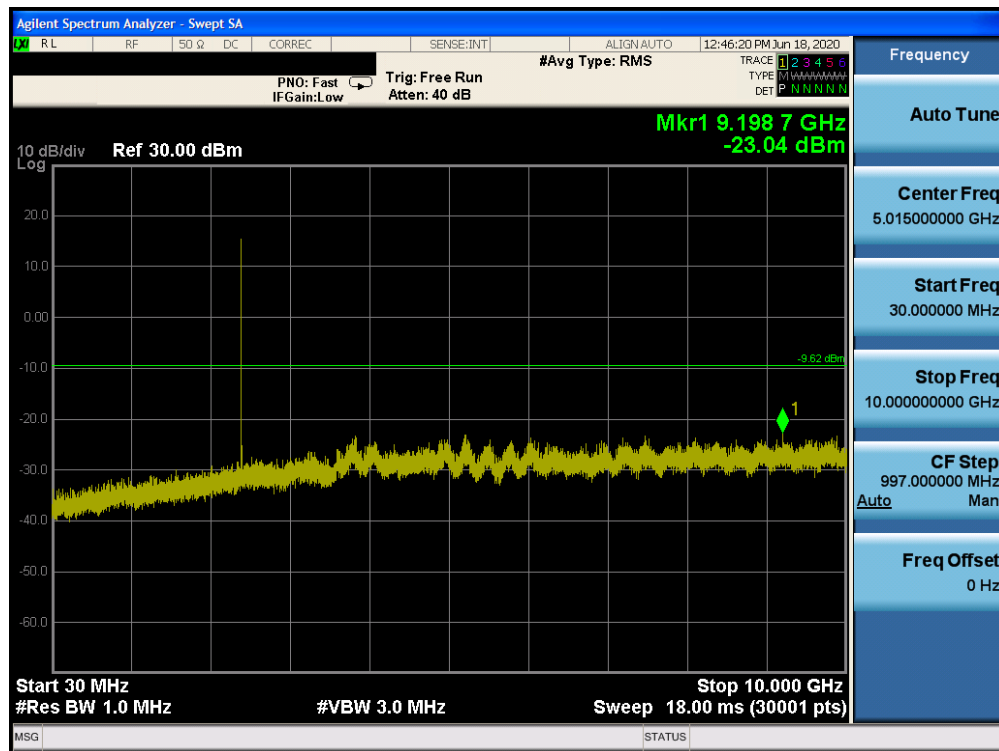
**Figure 7-5. Test Instrument & Measurement Setup**

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 33 of 57                   |

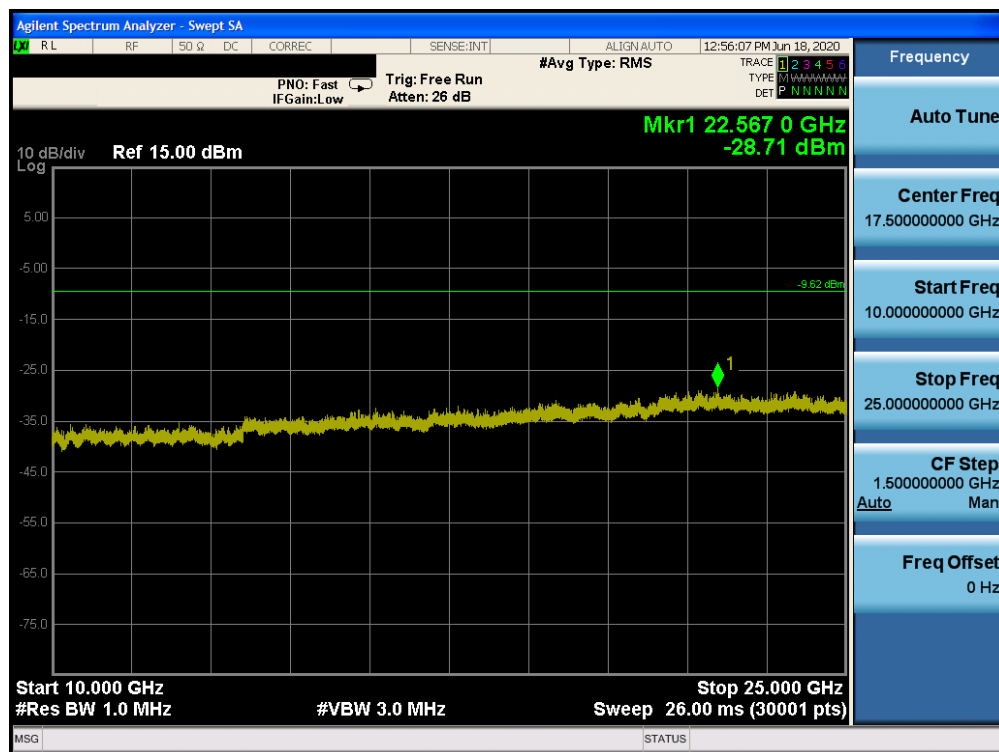
## Test Notes

1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
4. The unit was tested with all possible modes and power schemes and only the highest emission is reported.

|                                                |                                                                                                                                                                                                                      |                                               |                                        |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------|
| <b>FCC ID:</b> BCG-A2375                       |  <b>PCTEST</b><br>Proud to be part of  element | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C2004270018-06.BCG | <b>Test Dates:</b><br>06/12/2020 - 08/18/2020                                                                                                                                                                        | <b>EUT Type:</b><br>Watch                     | Page 34 of 57                          |

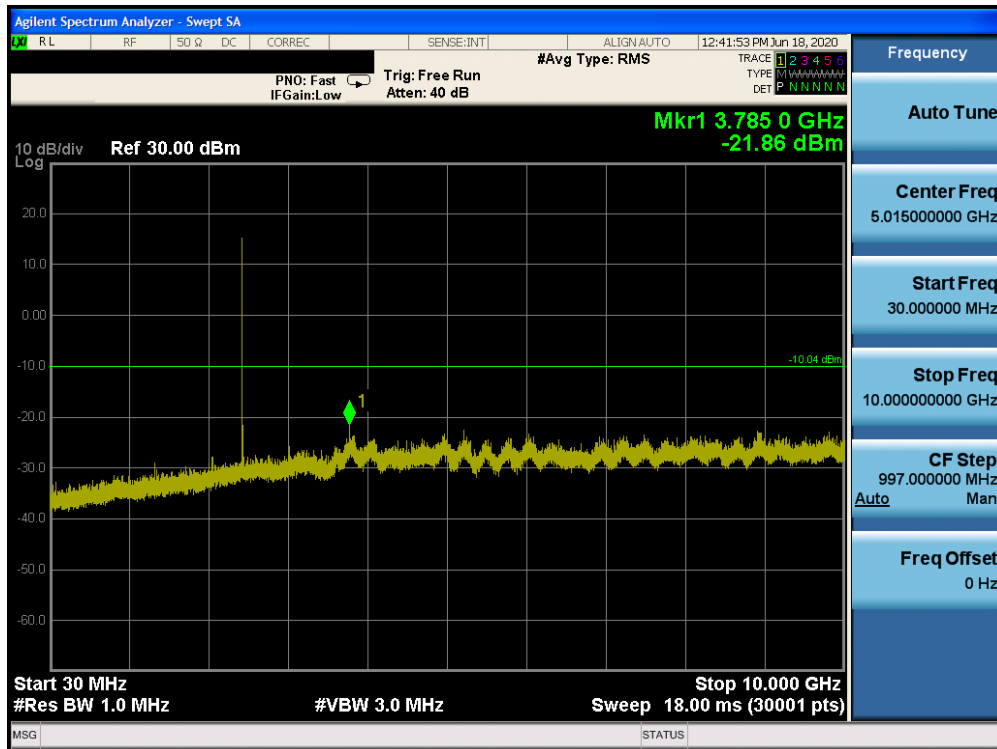


Plot 7-23. Conducted Spurious Plot (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 1)

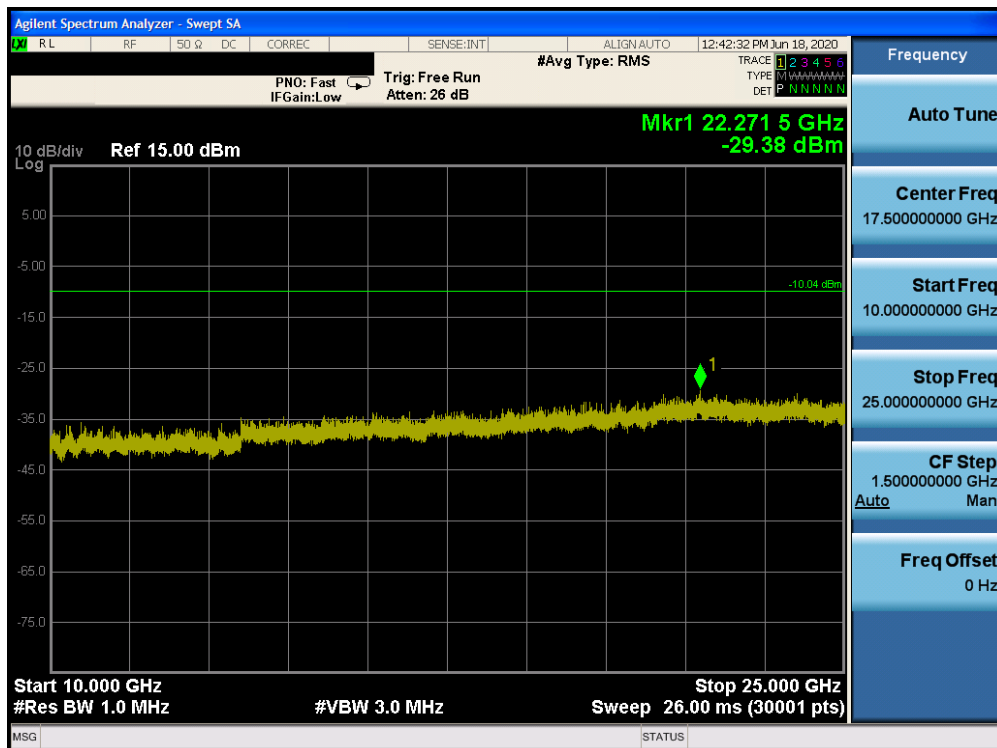


Plot 7-24. Conducted Spurious Plot (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 1)

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 35 of 57                   |

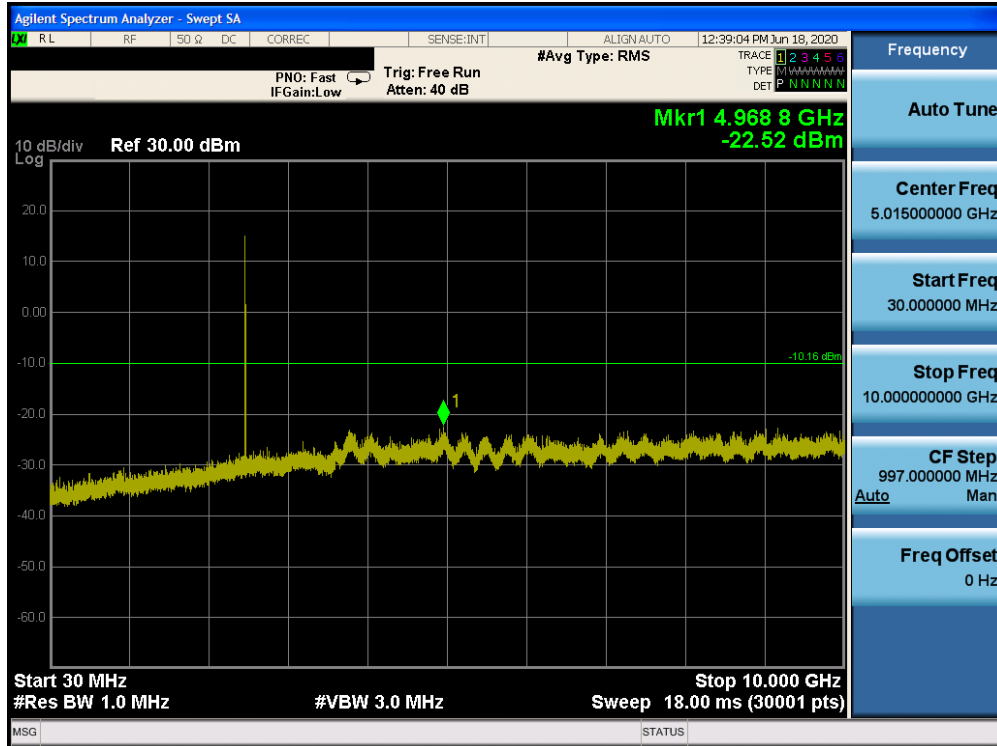


Plot 7-25. Conducted Spurious Plot (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 38)

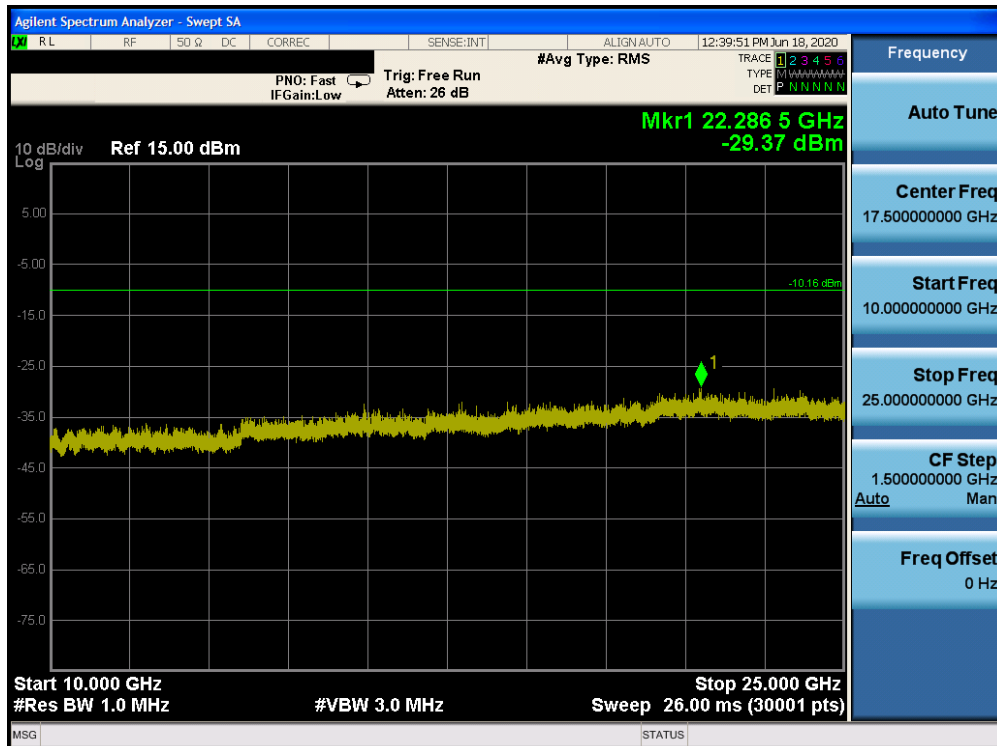


Plot 7-26. Conducted Spurious Plot (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 38)

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 36 of 57                   |



Plot 7-27. Conducted Spurious Plot (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 75)



Plot 7-28. Conducted Spurious Plot (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 75)

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 37 of 57                   |

## 7.7 Radiated Spurious Emissions – Above 1GHz

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]

### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

***All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-6 per Section 15.209 and RSS-Gen (8.9).***

| Frequency       | Field Strength<br>[ $\mu\text{V/m}$ ] | Measured Distance<br>[Meters] |
|-----------------|---------------------------------------|-------------------------------|
| Above 960.0 MHz | 500                                   | 3                             |

**Table 7-6. Radiated Limits**

### Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3

KDB 558074 D01 v05r02 – Section 8.6, 8.7

### Test Settings

#### Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be  $\geq 2 \times \text{span/RBW}$ )
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

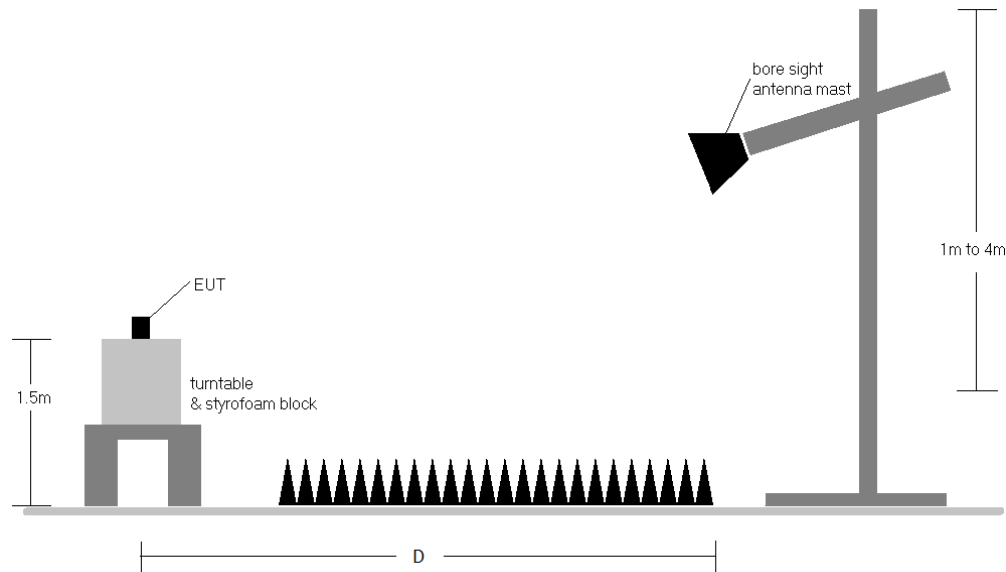
#### Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

|                                         |                                                                                                                                                                                                              |                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       |  <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020                                                                                                                                                                       | EUT Type:<br>Watch                    | Page 38 of 57                   |

## Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-6. Radiated Measurement Setup >1GHz**

## Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-6.
3. The antenna is manipulated through typical positions, polarity and height during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance ( $D = 3m$ ) while emissions above 18GHz were measured at a 1 meter test distance ( $D = 1m$ ) with the application of a distance correction factor.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. The unit was tested with all possible modes and power schemes and only the highest emission is reported.

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 39 of 57                   |

## Sample Calculations

### Determining Spurious Emissions Levels

- Field Strength Level  $[\text{dB}\mu\text{V/m}] = \text{Analyzer Level} [\text{dBm}] + 107 + \text{AFCL} [\text{dB/m}]$
- $\text{AFCL} [\text{dB/m}] = \text{Antenna Factor} [\text{dB/m}] + \text{Cable Loss} [\text{dB}] - \text{Preamplifier Gain} [\text{dB}]$
- $\text{Margin} [\text{dB}] = \text{Field Strength Level} [\text{dB}\mu\text{V/m}] - \text{Limit} [\text{dB}\mu\text{V/m}]$

### Radiated Band Edge Measurement Offset

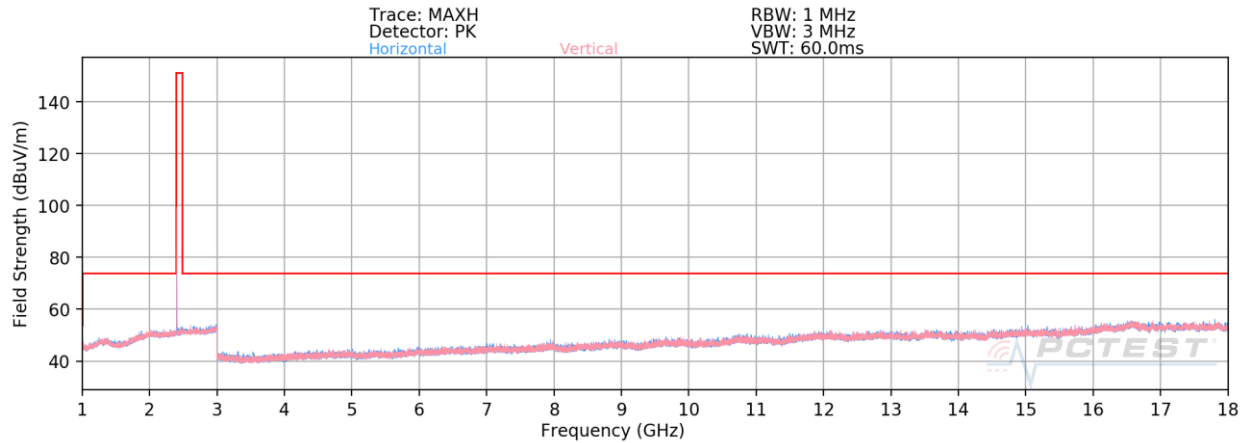
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.8 was calculated using the formula:  

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

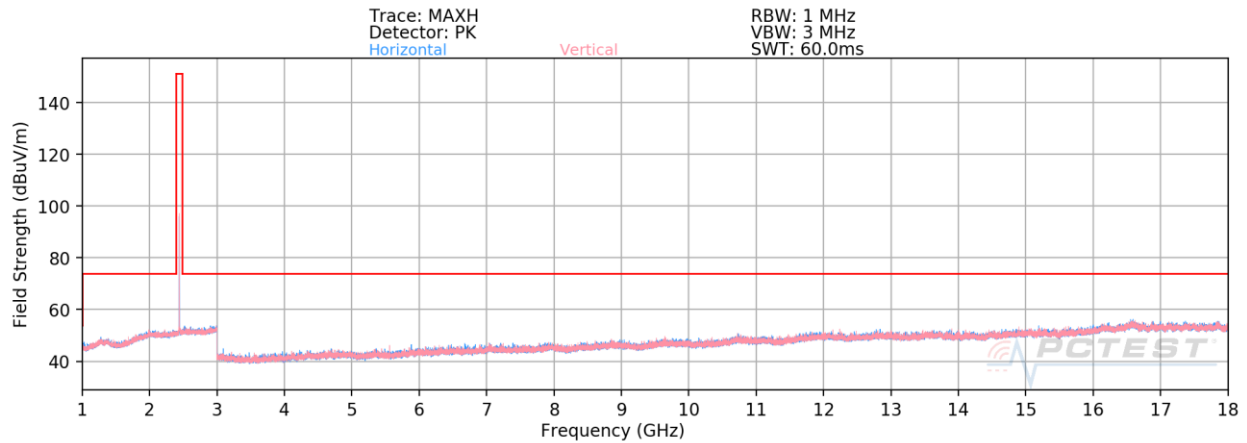
|                                         |                                                                                                                                                                                                              |                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       |  <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020                                                                                                                                                                       | EUT Type:<br>Watch                    | Page 40 of 57                   |

## Radiated Spurious Emissions – Above 1GHz

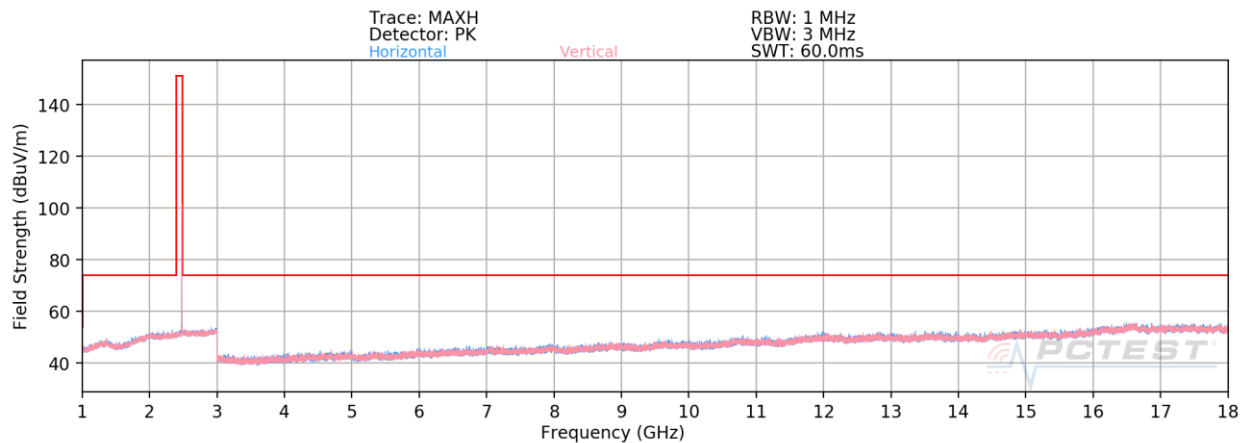
§15.205 §15.209 §15.247(d); RSS-Gen [8.9]



Plot 7-29. Radiated Spurious Emissions 1-18GHz (4Mbps, ePA – Ch. 1)



Plot 7-30. Radiated Spurious Emissions 1-18GHz (4Mbps, ePA – Ch. 38)

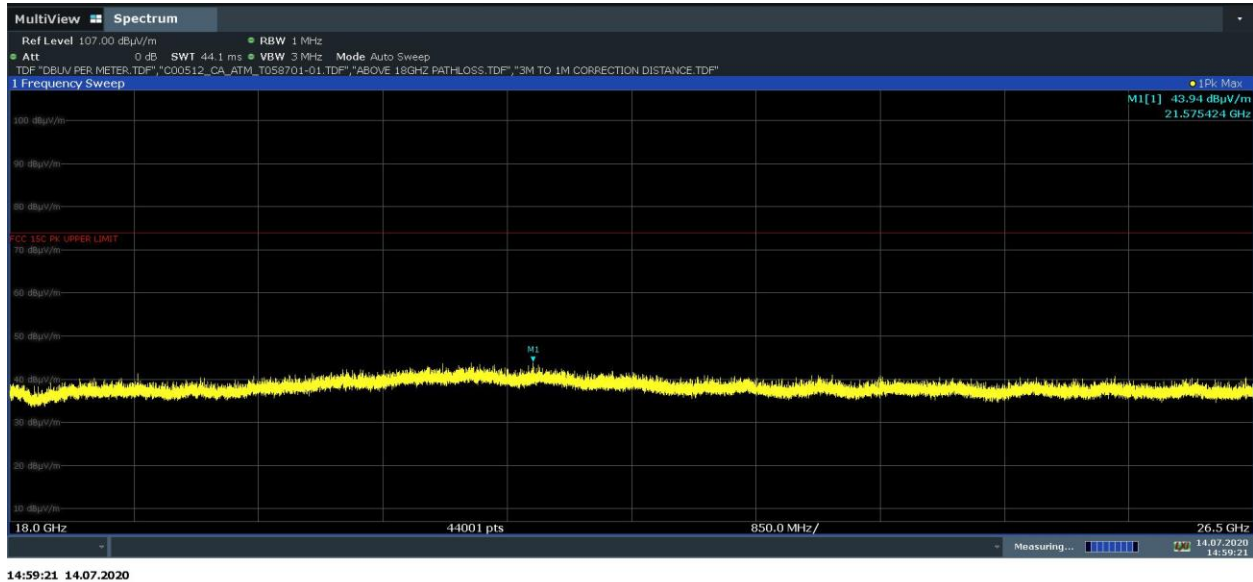


Plot 7-31. Radiated Spurious Emissions 1-18GHz (4Mbps, ePA – Ch. 75)

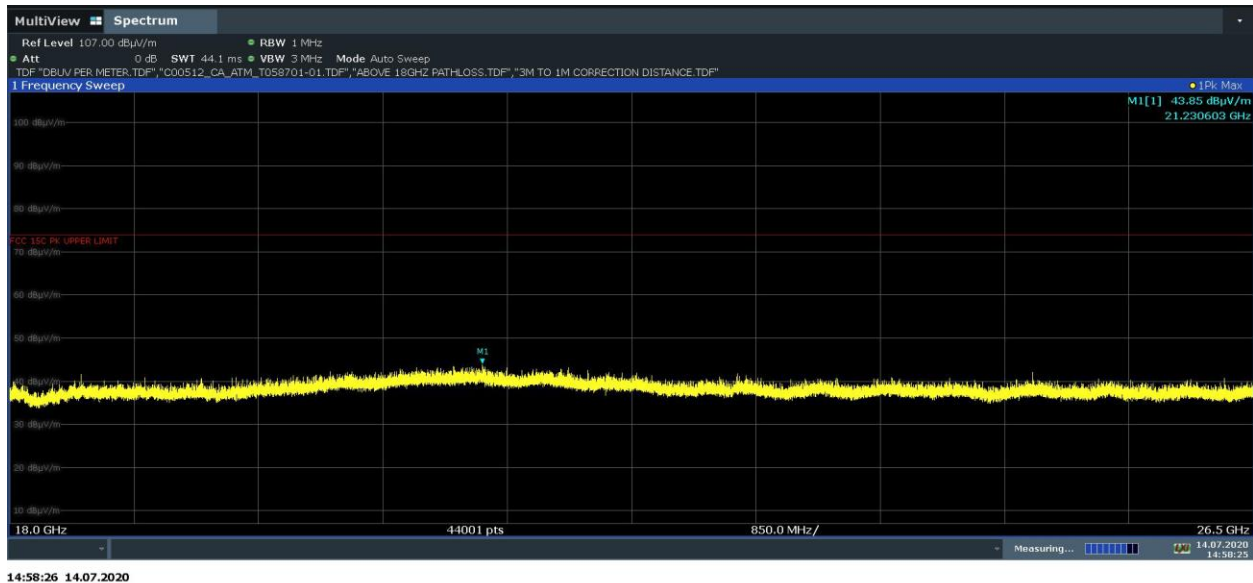
|                                         |                                                                                     |                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020                                              | EUT Type:<br>Watch                    | Page 41 of 57                   |

## Radiated Spurious Emissions – Above 18GHz

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]



Plot 7-32. Radiated Spurious Emissions 18-26.5GHz (4Mbps, ePA – Ch.38, Ant. Pol. H)



Plot 7-33. Radiated Spurious Emissions 18-26.5GHz (4Mbps, ePA – Ch.38, Ant. Pol. V)

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 42 of 57                   |

## Radiated Spurious Emission Measurements – Above 1GHz

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]

Bluetooth Mode: HDR4  
Power Scheme: ePA  
Distance of Measurements: 3 Meters  
Operating Frequency: 2404MHz  
Channel: 1

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
| 4808.00         | Avg      | H               | -                   | -                          | -80.08               | 5.82        | 32.74                   | 53.98          | -21.24      |
| 4808.00         | Peak     | H               | -                   | -                          | -67.97               | 5.82        | 44.85                   | 73.98          | -29.13      |
| 12020.00        | Avg      | H               | -                   | -                          | -82.54               | 14.63       | 39.09                   | 53.98          | -14.89      |
| 12020.00        | Peak     | H               | -                   | -                          | -71.01               | 14.63       | 50.62                   | 73.98          | -23.36      |

**Table 7-7. Radiated Spurious Emission Measurements**

Bluetooth Mode: HDR4  
Power Scheme: ePA  
Distance of Measurements: 3 Meters  
Operating Frequency: 2441MHz  
Channel: 38

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
| 4882.00         | Avg      | H               | -                   | -                          | -79.81               | 5.82        | 33.01                   | 53.98          | -20.97      |
| 4882.00         | Peak     | H               | -                   | -                          | -68.13               | 5.82        | 44.69                   | 73.98          | -29.29      |
| 7323.00         | Avg      | H               | 105                 | 332                        | -80.35               | 9.31        | 35.96                   | 53.98          | -18.02      |
| 7323.00         | Peak     | H               | 105                 | 332                        | -69.52               | 9.31        | 46.79                   | 73.98          | -27.19      |
| 12205.00        | Avg      | H               | -                   | -                          | -82.44               | 15.06       | 39.62                   | 53.98          | -14.36      |
| 12205.00        | Peak     | H               | -                   | -                          | -70.20               | 15.06       | 51.86                   | 73.98          | -22.12      |

**Table 7-8. Radiated Spurious Emission Measurements**

|                                         |                                                                                                                                                                                                              |                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       |  <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020                                                                                                                                                                       | EUT Type:<br>Watch                    | Page 43 of 57                   |

Bluetooth Mode: HDR4  
Power Scheme: ePA  
Distance of Measurements: 3 Meters  
Operating Frequency: 2478MHz  
Channel: 75

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
| 4956.00         | Avg      | H               | -                   | -                          | -80.66               | 6.55        | 32.89                   | 53.98          | -21.09      |
| 4956.00         | Peak     | H               | -                   | -                          | -69.15               | 6.55        | 44.40                   | 73.98          | -29.58      |
| 7434.00         | Avg      | H               | -                   | -                          | -81.86               | 9.75        | 34.89                   | 53.98          | -19.09      |
| 7434.00         | Peak     | H               | -                   | -                          | -70.28               | 9.75        | 46.47                   | 73.98          | -27.51      |
| 12390.00        | Avg      | H               | -                   | -                          | -83.37               | 14.80       | 38.43                   | 53.98          | -15.55      |
| 12390.00        | Peak     | H               | -                   | -                          | -71.97               | 14.80       | 49.83                   | 73.98          | -24.15      |

**Table 7-9. Radiated Spurious Emission Measurements**

|                                                |                                                                                                                                                                                                |                                               |                                        |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------|
| <b>FCC ID:</b> BCG-A2375                       | <br>Proud to be part of  | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C2004270018-06.BCG | <b>Test Dates:</b><br>06/12/2020 - 08/18/2020                                                                                                                                                  | <b>EUT Type:</b><br>Watch                     | Page 44 of 57                          |

## 7.8 Radiated Restricted Band Edge Measurements

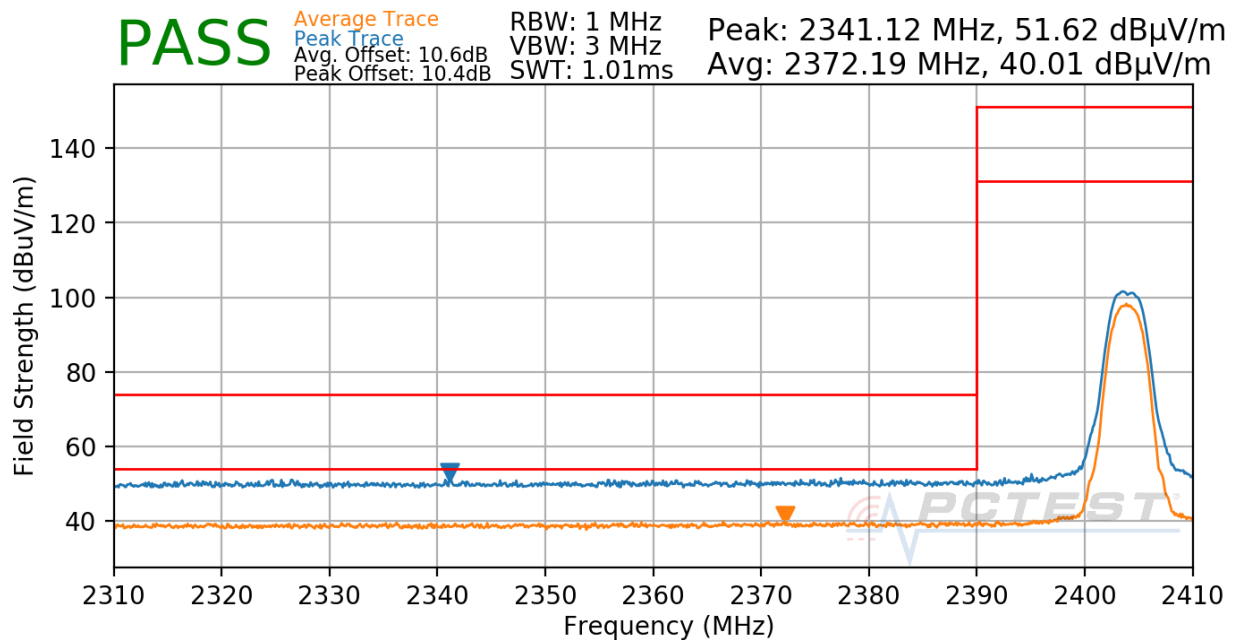
§15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

|                       |          |
|-----------------------|----------|
| Bluetooth Mode:       | HDR4     |
| Power Scheme:         | ePA      |
| Measurement Distance: | 3 Meters |
| Operating Frequency:  | 2404MHz  |
| Channel:              | 1        |



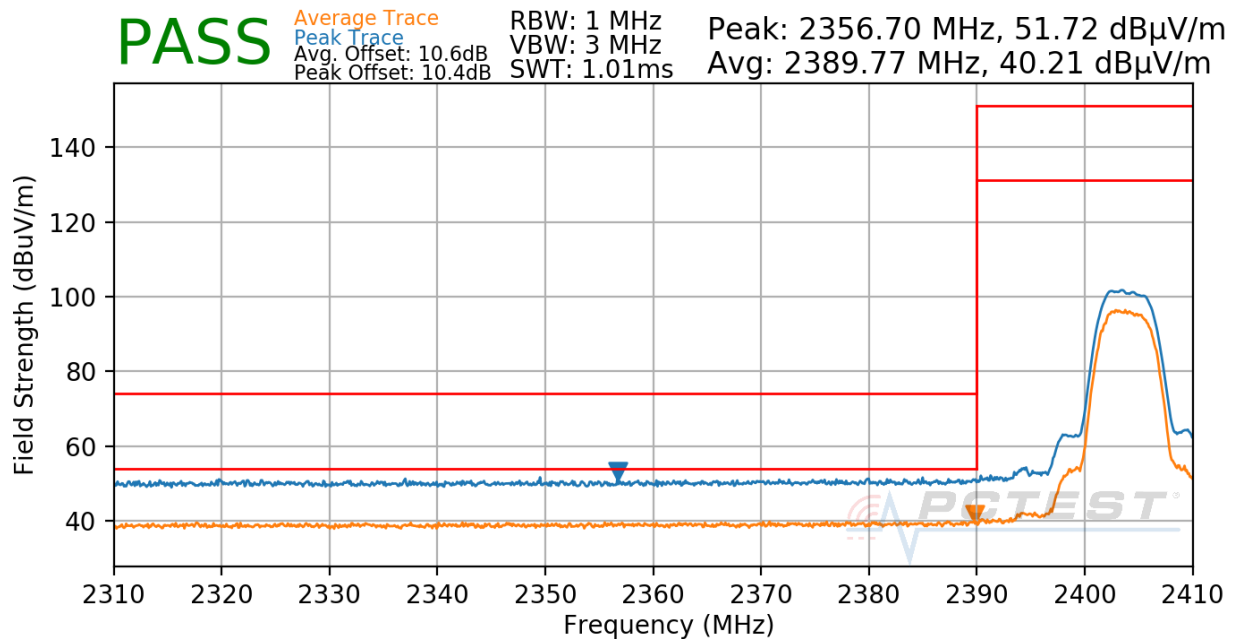
Plot 7-34. Radiated Restricted Lower Band Edge Measurement

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 45 of 57                   |

## Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

|                       |          |
|-----------------------|----------|
| Bluetooth Mode:       | HDR8     |
| Power Scheme:         | ePA      |
| Measurement Distance: | 3 Meters |
| Operating Frequency:  | 2404MHz  |
| Channel:              | 1        |



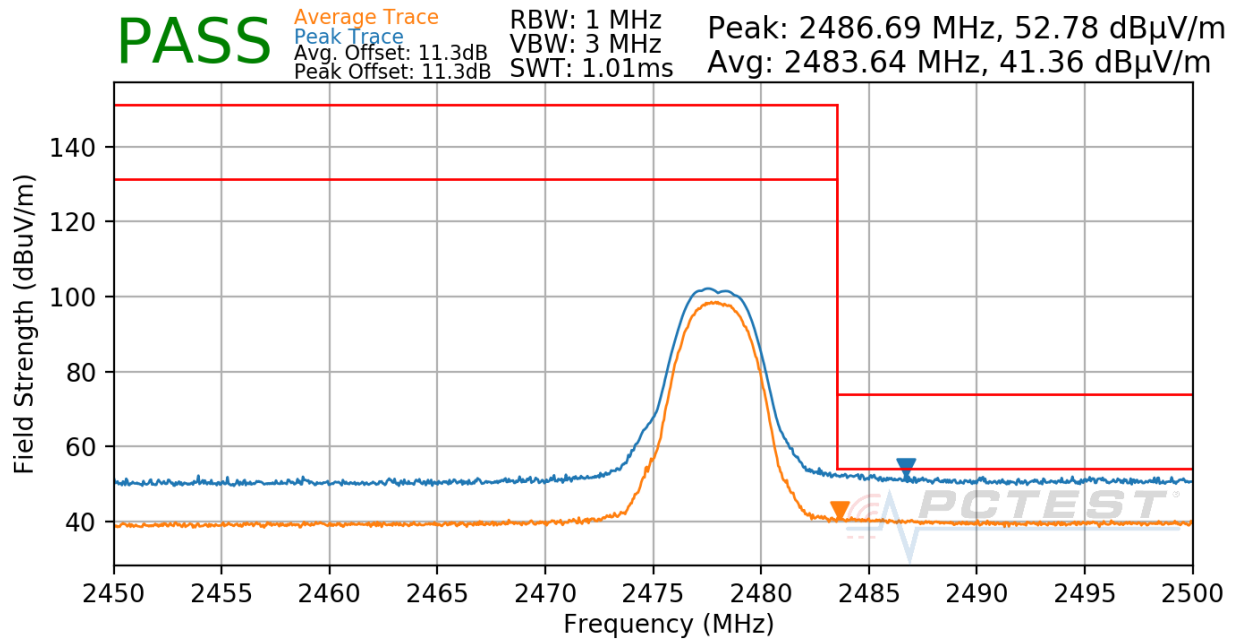
Plot 7-35. Radiated Restricted Lower Band Edge Measurement

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 46 of 57                   |

## Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

|                       |          |
|-----------------------|----------|
| Bluetooth Mode:       | HDR4     |
| Power Scheme:         | ePA      |
| Measurement Distance: | 3 Meters |
| Operating Frequency:  | 2478MHz  |
| Channel:              | 75       |



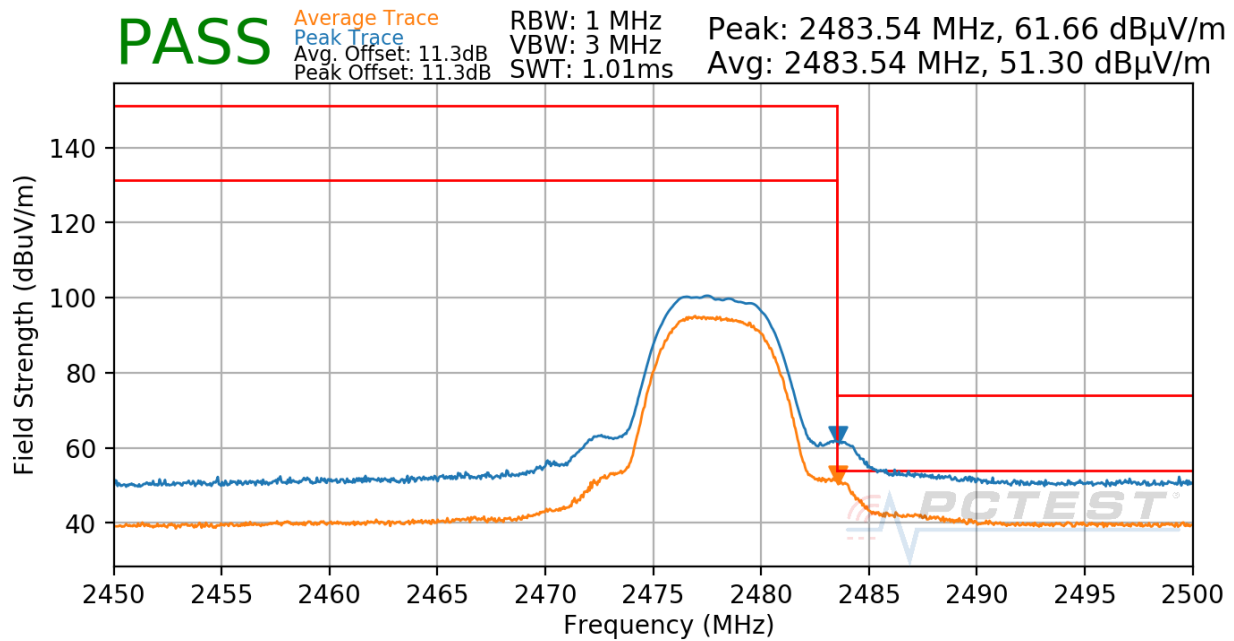
Plot 7-36. Radiated Restricted Upper Band Edge Measurement

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 47 of 57                   |

## Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

|                       |          |
|-----------------------|----------|
| Bluetooth Mode:       | HDR8     |
| Power Scheme:         | ePA      |
| Measurement Distance: | 3 Meters |
| Operating Frequency:  | 2478MHz  |
| Channel:              | 75       |



Plot 7-37. Radiated Restricted Upper Band Edge Measurement

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 48 of 57                   |

## 7.9 Radiated Spurious Emissions – Below 1GHz

**§15.209; RSS-Gen [8.9]**

### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

***All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-10 per Section 15.209 and RSS-Gen (8.9).***

| Frequency         | Field Strength<br>[μV/m] | Measured Distance<br>[Meters] |
|-------------------|--------------------------|-------------------------------|
| 0.009 – 0.490 MHz | 2400/F (kHz)             | 300                           |
| 0.490 – 1.705 MHz | 24000/F (kHz)            | 30                            |
| 1.705 – 30.00 MHz | 30                       | 30                            |
| 30.00 – 88.00 MHz | 100                      | 3                             |
| 88.00 – 216.0 MHz | 150                      | 3                             |
| 216.0 – 960.0 MHz | 200                      | 3                             |
| Above 960.0 MHz   | 500                      | 3                             |

**Table 7-10. Radiated Limits**

### Test Procedures Used

ANSI C63.10-2013

### Test Settings

#### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

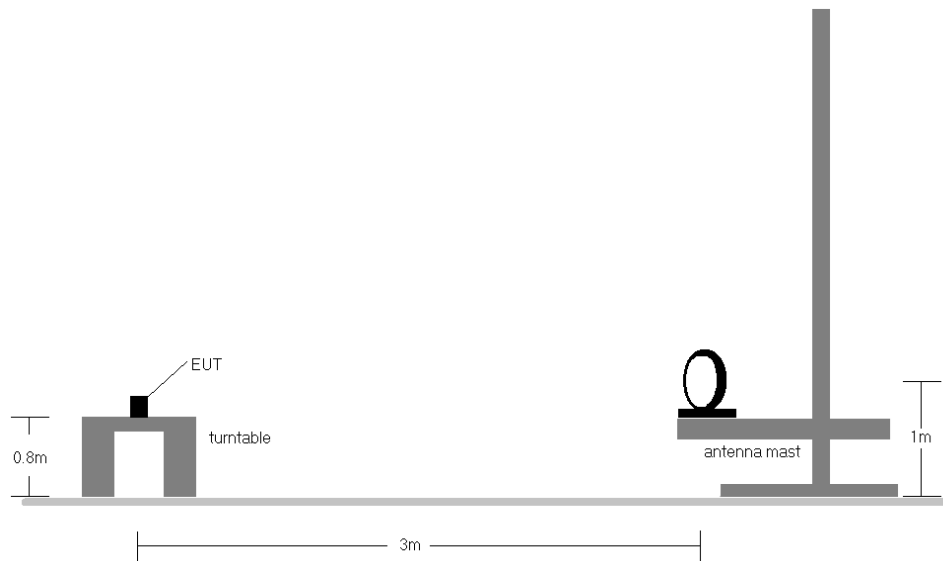
#### Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

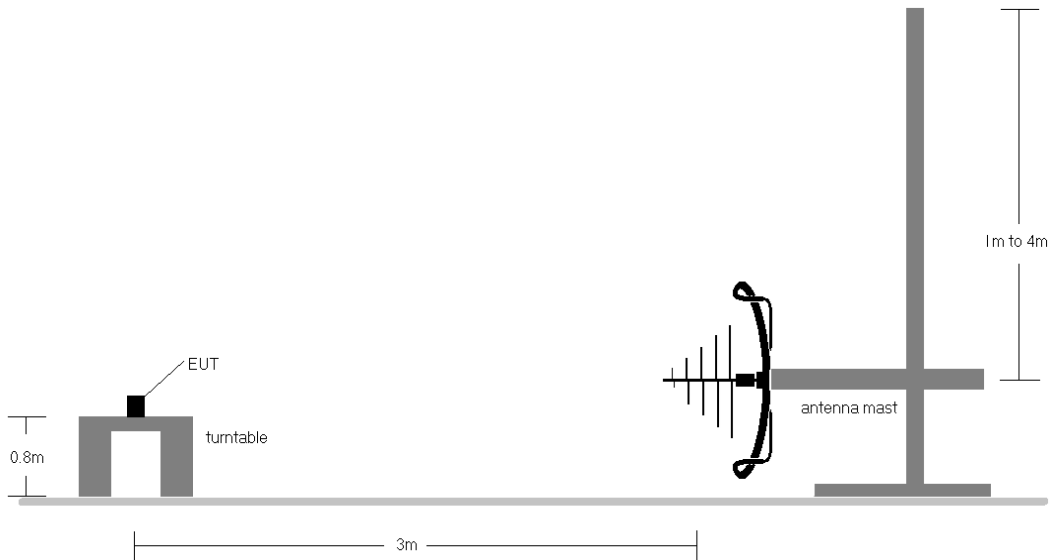
|                                         |                                                                                                                                                                                                              |                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       |  <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020                                                                                                                                                                       | EUT Type:<br>Watch                    | Page 49 of 57                   |

## Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.



**Figure 7-7. Radiated Test Setup < 30Mhz**



**Figure 7-8. Radiated Test Setup < 1GHz**

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 50 of 57                   |

## Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-10.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz measurements, the loop antenna was positioned in three orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector on emissions within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the worst channel, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.
10. The unit was tested with all possible modes and power schemes, and only the highest emission is reported.
11. Both configurations below were investigated, and the worst case has been reported.
  - a. EUT powered by AC/DC adapter via USB cable with wireless charger
  - b. EUT powered by host PC via USB cable with wireless charger

## Sample Calculation

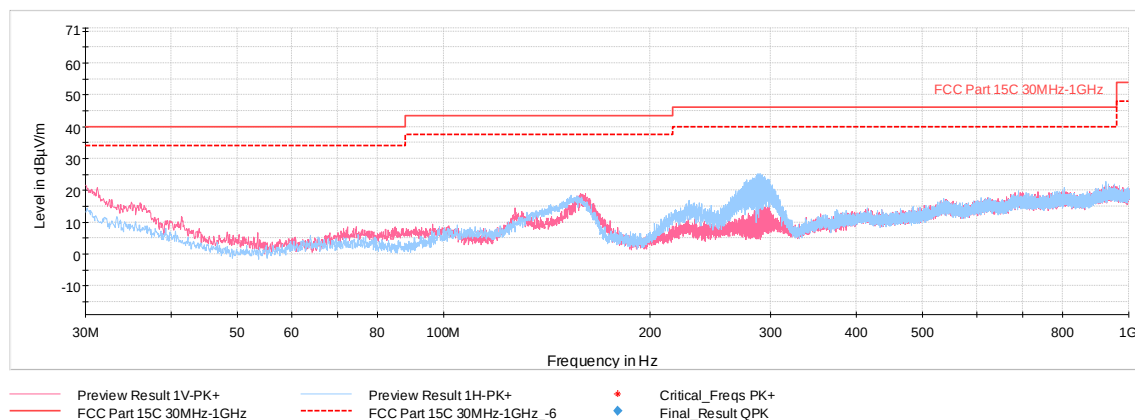
### Determining Spurious Emissions Levels

- Field Strength Level  $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]} - \text{Preamplifier Gain}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu V/m]}$

|                                         |                                                                                                                                                                                                              |                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       |  <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020                                                                                                                                                                       | EUT Type:<br>Watch                    | Page 51 of 57                   |

## Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]



**Plot 7-38. Radiated Spurious Emissions 30MHz-1GHz (4Mbps, ePA – Ch.38 with WCP + AC/DC Adapter)**

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
| 30.00           | Max-Peak | V               | 100                 | 17                         | -68.04               | -17.35      | 21.61                   | 40.00          | -18.39      |
| 41.45           | Max-Peak | V               | 100                 | 125                        | -71.38               | -23.93      | 11.69                   | 40.00          | -28.31      |
| 127.15          | Max-Peak | V               | 100                 | 267                        | -66.72               | -25.83      | 14.45                   | 43.52          | -29.07      |
| 158.53          | Max-Peak | V               | 100                 | 106                        | -66.16               | -21.90      | 18.94                   | 43.52          | -24.59      |
| 227.93          | Max-Peak | H               | 100                 | 129                        | -68.93               | -21.25      | 16.82                   | 46.02          | -29.20      |
| 288.60          | Max-Peak | H               | 100                 | 20                         | -62.06               | -19.72      | 25.22                   | 46.02          | -20.80      |

**Table 7-11. Radiated Spurious Measurements 30MHz-1GHz (4Mbps, ePA – Ch.38 with WCP + AC/DC Adapter)**

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 52 of 57                   |

## 7.10 AC Line Conducted Emission Measurements

§15.207; RSS-Gen [8.8]

### Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC line conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

**All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).**

| Frequency of emission (MHz) | Conducted Limit (dBμV) |           |
|-----------------------------|------------------------|-----------|
|                             | Quasi-peak             | Average   |
| 0.15 – 0.5                  | 66 to 56*              | 56 to 46* |
| 0.5 – 5                     | 56                     | 46        |
| 5 – 30                      | 60                     | 50        |

Table 7-12. Conducted Limits

\*Decreases with the logarithm of the frequency.

### Test Procedures Used

ANSI C63.10-2013, Section 6.2

### Test Settings

#### Quasi-Peak Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

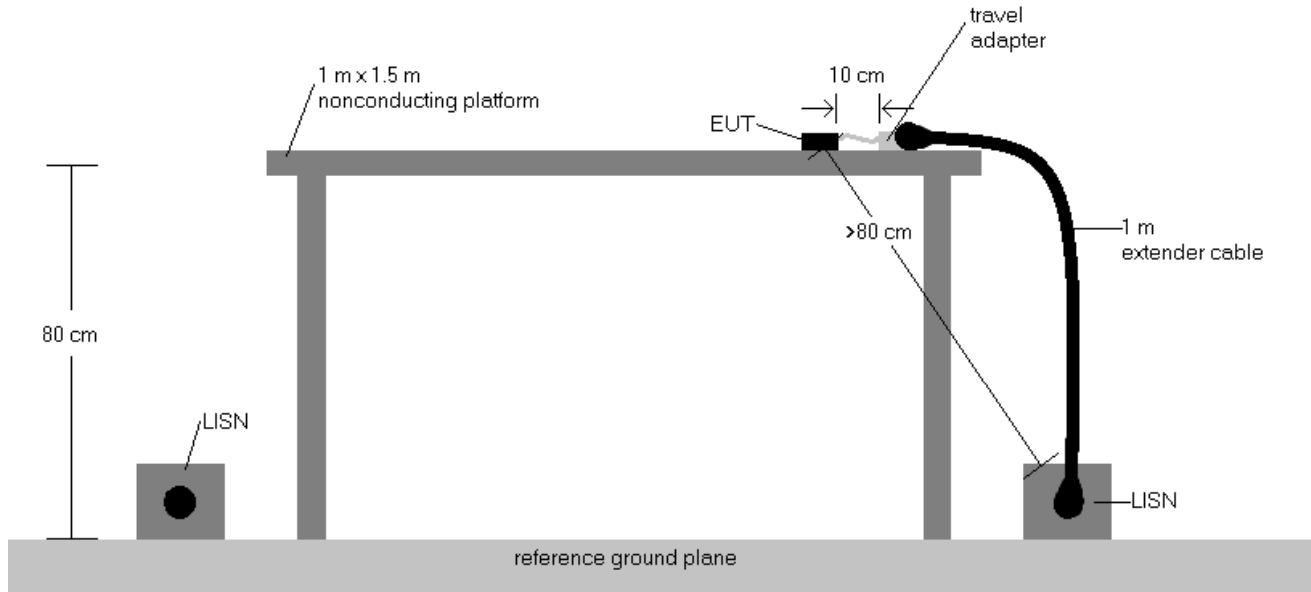
#### Average Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

|                                         |                                                                                                                                                                                                              |                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       |  <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020                                                                                                                                                                       | EUT Type:<br>Watch                    | Page 53 of 57                   |

## Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

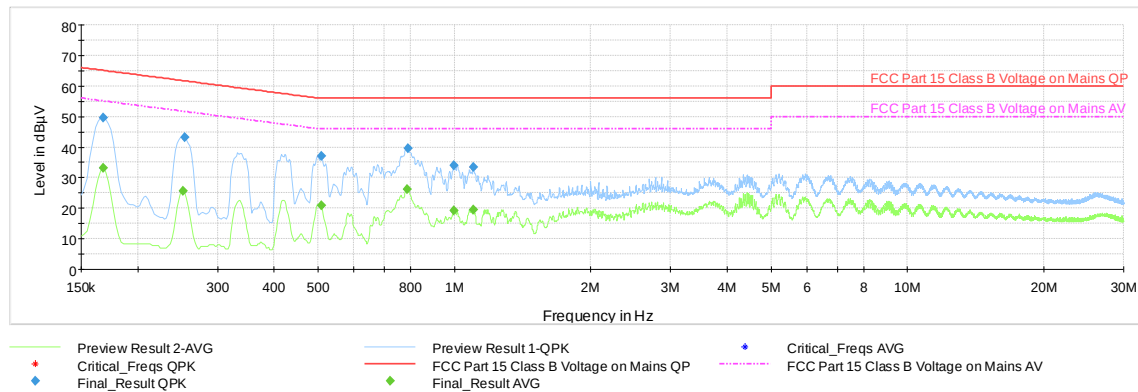


**Figure 7-9. Test Instrument & Measurement Setup**

## Test Notes

- All modes of operation were investigated for AC line conducted spurious emissions and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
- The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen (8.8).
- $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
- $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
- $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
- Traces shown in plot are made using quasi-peak and average detectors.
- Deviations to the Specifications: None.
- Both configurations below were investigated, and the worst case has been reported.
  - EUT powered by AC/DC adapter via USB cable with wireless charger
  - EUT powered by host PC via USB cable with wireless charger

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 54 of 57                   |

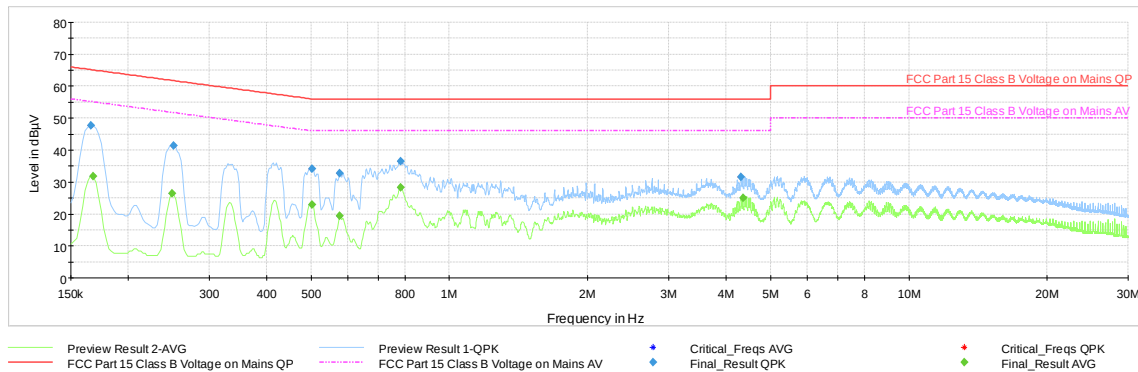


**Plot 7-39. AC Line Conducted Plot with Bluetooth HDR (L1 - 4Mbps, ePA, Ch.38 with WCP + AC/DC Adapter)**

| Frequency [MHz] | Process State | QuasiPeak [dBμV] | Average [dBμV] | Limit [dBμV] | Margin [dB] | Line | PE  |
|-----------------|---------------|------------------|----------------|--------------|-------------|------|-----|
| 0.168           | FINAL         | 49.7             | —              | 65.06        | -15.34      | L1   | GND |
| 0.168           | FINAL         | —                | 33.10          | 55.06        | -21.95      | L1   | GND |
| 0.251           | FINAL         | —                | 25.70          | 51.72        | -26.02      | L1   | GND |
| 0.254           | FINAL         | 43.2             | —              | 61.64        | -18.44      | L1   | GND |
| 0.508           | FINAL         | 37.0             | —              | 56.00        | -18.98      | L1   | GND |
| 0.508           | FINAL         | —                | 20.79          | 46.00        | -25.21      | L1   | GND |
| 0.787           | FINAL         | —                | 26.27          | 46.00        | -19.73      | L1   | GND |
| 0.789           | FINAL         | 39.6             | —              | 56.00        | -16.38      | L1   | GND |
| 0.996           | FINAL         | —                | 19.22          | 46.00        | -26.78      | L1   | GND |
| 0.996           | FINAL         | 34.1             | —              | 56.00        | -21.95      | L1   | GND |
| 1.100           | FINAL         | 33.3             | —              | 56.00        | -22.67      | L1   | GND |
| 1.100           | FINAL         | —                | 19.58          | 46.00        | -26.42      | L1   | GND |

**Table 7-13. AC Line Conducted Data with Bluetooth HDR (L1 - 4Mbps, ePA, Ch.38 with WCP + AC/DC Adapter)**

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 55 of 57                   |



**Plot 7-40. AC Line Conducted Plot with Bluetooth HDR (N – 4Mbps, ePA, Ch. 38 with WCP + AC/DC Adapter)**

| Frequency [MHz] | Process State | QuasiPeak [dBμV] | Average [dBμV] | Limit [dBμV] | Margin [dB] | Line | PE  |
|-----------------|---------------|------------------|----------------|--------------|-------------|------|-----|
| 0.166           | FINAL         | 47.8             | —              | 65.17        | -17.34      | N    | GND |
| 0.168           | FINAL         | —                | 31.92          | 55.06        | -23.13      | N    | GND |
| 0.249           | FINAL         | —                | 26.47          | 51.79        | -25.32      | N    | GND |
| 0.251           | FINAL         | 41.4             | —              | 61.72        | -20.28      | N    | GND |
| 0.503           | FINAL         | 34.2             | —              | 56.00        | -21.82      | N    | GND |
| 0.503           | FINAL         | —                | 22.82          | 46.00        | -23.18      | N    | GND |
| 0.578           | FINAL         | —                | 19.45          | 46.00        | -26.55      | N    | GND |
| 0.578           | FINAL         | 32.7             | —              | 56.00        | -23.33      | N    | GND |
| 0.785           | FINAL         | —                | 28.35          | 46.00        | -17.65      | N    | GND |
| 0.785           | FINAL         | 36.5             | —              | 56.00        | -19.52      | N    | GND |
| 4.315           | FINAL         | 31.6             | —              | 56.00        | -24.41      | N    | GND |
| 4.351           | FINAL         | —                | 25.07          | 46.00        | -20.93      | N    | GND |

**Table 7-14. AC Line Conducted Data with Bluetooth HDR (N – 4Mbps, ePA, Ch.38 with WCP + AC/DC Adapter)**

|                                         |                                              |                                       |                                 |
|-----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2375                       | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2004270018-06.BCG | Test Dates:<br>06/12/2020 - 08/18/2020       | EUT Type:<br>Watch                    | Page 56 of 57                   |

## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Watch FCC ID: BCG-A2375** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

|                                                |                                                                                                                                                                                                              |                                               |                                        |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------|
| <b>FCC ID:</b> BCG-A2375                       |  <b>PCTEST</b><br>Proud to be part of  | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C2004270018-06.BCG | <b>Test Dates:</b><br>06/12/2020 - 08/18/2020                                                                                                                                                                | <b>EUT Type:</b><br>Watch                     | Page 57 of 57                          |