

Emissions Test Report

EUT Name: USB Wireless Audio Transmitter

Model No.: Stealth600P-USB-TX

CFR 47 Part 15.247: 2021 and RSS 247: 2017

Prepared for:

Voyetra Turtle Beach, Inc. 44 South Broadway, 4th Floor White Plains NY 10601 USA

Prepared by:

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Report/Issue Date: August 5, 2022

Revision Number (

Report Number: SL22041907-CCP-224_6PMinus_TX_RF

Report Number: SL22041907-CCP-224_6PMinus_TX_RF

EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

Date: August 5, 2022. Rev 0

Revisions

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Note: Latest revision report will replace all previous reports.

Report Number: SL22041907-CCP-224_6PMinus_TX_RF EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

Date: August 5, 2022. Rev 0

Statement of Compliance

Manufacturer: Voyetra Turtle Beach, Inc.

44 South Broadway, 4th Floor White Plains NY 10601 USA

Requester / Applicant: Tim Blaney

(530) 277-3482

Name of Equipment: USB Wireless Audio Transmitter

Model No's. Stealth600P-USB-TX Type of Equipment: Intentional Radiator

Application of Regulations: CFR 47 Part 15.247: 2021 and RSS 247: 2017

Test Dates: July 26, 2022 to July 31, 2022

Guidance Documents:

Emissions: ANSI C63.10-2013, KDB 558074 D01 DTS Measurement Guidance v05r02,

Test Methods:

Emissions: ANSI C63.10-2013, KDB 558074 D01 DTS Measurement Guidance v05r02,

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification. The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any government agencies.

Abhijit Patibandla

Suresh Kondapalli

Test Engineer

Date August 5, 2022

Reviewer Signatory

Date August 5, 2022









Gouvernement du Canada

Testing Cert #2742-01

US1109

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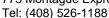
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Executive Summary

Scope 1.1

This report is intended to document the status of conformance with the requirements of the CFR 47 Part 15.247: 2021 and RSS 247: 2017 based on the results of testing performed on July 26, 2022 to July 31, 2022 on the USB Wireless Audio Transmitter Model Stealth600P-USB-TX manufactured by Voyetra Turtle Beach, Inc. This report only applies to the specific samples tested under the stated test conditions. It is the responsibility of the manufacturer to assure that additional production units of this model are manufactured with identical or EMI equivalent electrical and mechanical components. This report is further intended to document changes and modifications to the EUT throughout its life cycle. All documentation will be included as a supplement.

1.2 Purpose

Testing was performed to evaluate the EMC performance of the EUT in accordance with the applicable requirements, procedures, and criteria defined in the application of regulations and application of standards listed in this report. The 2402 MHz to 2480 MHz frequency band is covered in this document.

Summary of Test Results

Table 1: Summary of Test Results

| Test | Test Method ANSI C63.10:2013 | Test Parameters | Measured Value | Result |
|---------------------------------------|---|---------------------------------------|--------------------------------------|----------|
| Spurious Emission in Transmitted Mode | CFR47 15.209, CFR47 15.247 (d) RSS GEN Sect.8.9 | Class B | -6.20 dB (Margin) | Complied |
| Restricted Bands of Operation | CFR47 15.205, RSS GEN Sect.8.10 | · · · · · · · · · · · · · · · · · · · | | Complied |
| AC Power Conducted Emission | CFR47 15.207, RSS-GEN Sect.8.8 | Class B | -15.10 dB (Margin) | Complied |
| Occupied Bandwidth | CFR47 15.247 (a2), RSS GEN Sect.6.7, RSS 247 Sect. 5.2 (a) | ≥ 500 kHz | 1.0354 MHz (99%) 0.7166 MHz (DTS) | Complied |
| Maximum Output Power | CFR47 15.247 (b), RSS 247 Sect. 5.4 (d) | 30 dBm w/ 6 dBi antenna | +4.25 dBm | Complied |
| Peak Power Spectral Density | CFR47 15.247 (e), RSS 247 Sect. 5.2 (b) | 8 dBm/ 3 kHz | -17.77 dBm | Complied |
| Out of Band Emission | CFR47 15.247 (d), RSS 247 Sect.5.5 | -30 dBr | -7.51 dB (Margin) | Complied |

1.4 Special Accessories

No special accessories were necessary in order to achieve compliance.

1.5 Equipment Modifications

None.

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2 Laboratory Information

2.1 Accreditations & Endorsements

2.1.1 US Federal Communications Commission



Bureau Veritas Consumer Products Services, Inc. at 775 Montague Expressway, Milpitas CA 95035 is recognized by the commission for performing testing services for the general public on a fee basis. These laboratory test facilities have been fully described in reports submitted to and accepted by the FCC (Registration No.

US1109). The laboratory scope of accreditation includes: Title 47 CFR Parts 15, 18, 20, 22, 24, 25, 27, 90, 95, 95, 97 and 101. The accreditation is updated every 3 years.

2.1.2 NIST / A2LA



Bureau Veritas Consumer Products Services, Inc is accredited by the National Voluntary Laboratory Accreditation Program, which is administered under the auspices of the National Institute of Standards and Technology. The laboratory has been assessed and accredited in accordance with ISO Guide 17025:2017 and ISO 9002 (Lab Code 2742-

01). The scope of laboratory accreditation includes emission and immunity testing. The accreditation is updated annually.

2.1.3 Canada



Bureau Veritas Consumer Products Services, Inc. at the 775 Montague Expressway, Milpitas, CA 95035 address is accredited by Industry Canada for

performing testing services for the general public on a fee basis. This laboratory test facilities have been fully described in reports submitted to and accepted by Industry Canada (File Number 4842D). This reference number is the indication to the Industry Canada Certification Officers that the site meets the requirements of RSS 212, Issue 1 (Provisional). The accreditation is updated every 3 years.

2.1.4 Japan – VCCI



The Voluntary Control Council for Interference by Information Technology Equipment (VCCI) is a group that consists of Information Technology Equipment (ITE) manufacturers and EMC test laboratories. The purpose of the Council is to take voluntary control measures against electromagnetic interference from Information Technology Equipment, and thereby contribute to the development of a

socially beneficial and responsible state of affairs in the realm of Information Technology Equipment in Japan. Bureau Veritas Consumer Products Services, Inc. at 775 Montague Expressway, Milpitas, CA 95035 has been assessed and approved in accordance with the Regulations for Voluntary Control Measures.

VCCI Registration No. for for Milpitas: A-0133

2.1.5 Acceptance by Mutual Recognition Arrangement



The United States has an established agreement with specific countries under the Asia Pacific Laboratory Accreditation Corporation (APLAC) Mutual Recognition Arrangement. Under this agreement, all Bureau Veritas Consumer Products Services, Inc. at 775 Montague Expressway, Milpitas, CA 95035 test results and test reports within the scope of the laboratory NIST / A2LA

accreditation will be accepted by each member country.

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2.2 Test Facilities

All of the test facilities are located at 775 Montague Expressway, Milpitas, California, 95035, USA.

2.2.1 Emission Test Facility

The Semi-Anechoic chamber and AC Line Conducted measurement facility used to collect the radiated and conducted data has been constructed in accordance with ANSI C63.7:1992. The site has been measured in accordance with and verified to comply with the theoretical normalized site attenuation requirements of ANSI C63.4-2014, at a test distance of 3 and 10 meters. The site is listed with the FCC and accredited by A2LA (Lab Code 2742-01. A report detailing this site can be obtained from Bureau Veritas Consumer Products Services, Inc.

2.3 Measurement Uncertainty

Two types of measurement uncertainty are expressed in this report, per ISO Guide To The Expression Of Uncertainty In Measurement, 1st Edition, 1995.

The Combined Standard Uncertainty is the standard uncertainty of the result of a measurement when that result is obtained from the values of a number of other quantities; it is equal to the positive square root of the sum of the variances or co-variances of these other quantities, weighted according to how the measurement result varies with changes in these quantities. The term standard uncertainty is the result of a measurement expressed as a standard deviation.

Sample Calculation – radiated & conducted emissions 2.3.1

The field strength is calculated by subtracting the Amplifier Gain and adding the Cable Loss and Antenna Correction Factor to the measured reading. The basic equation is as follows:

Field Strength
$$(dB\mu V/m) = RAW - AMP + CBL + ACF$$

Where: RAW = Measured level before correction ($dB\mu V$)

AMP = Amplifier Gain (dB)

CBL = Cable Loss (dB)

ACF = Antenna Correction Factor (dB/m)

$$\mu V/m = 10^{\frac{\textit{dB}\mu V \, / \, \textit{m}}{20}}$$

Sample radiated emissions calculation @ 30 MHz

Measurement +Antenna Factor-Amplifier Gain+Cable loss=Radiated Emissions (dBuV/m)

25 dBuV/m + 17.5 dB - 20 dB + 1.0 dB = 23.5 dBuV/m

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2.3.2 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT | FREQUENCY | UNCERTAINTY | |
|---------------------|-------------------|-------------|--|
| Conducted emissions | 0.15 MHz ~ 30 MHz | 2.70 dB | |
| | 9 kHz ~ 30 MHz | 2.16 dB | |
| Radiated emissions | 30 MHz ~ 1 GHz | 3.60 dB | |
| Radiated emissions | 1 GHz ~ 18 GHz | 4.82 dB | |
| | 18 GHz ~ 40 GHz | 5.00 dB | |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

2.4 **Calibration Traceability**

All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Measurement method complies with ANSI/NCSL Z540-1-1994 and ISO Standard 17025:2017. Equipment calibration records are kept on file at the test facility.

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3 Product Information

3.1 Product Description

The Stealth 600P Gen 2 USB Wireless Gaming System consists of two main communication modules, the Stealth600P-USB-RX ("Headset") and the Stealth600P-USB-TX ("Transmitter"). These two modules comprise a closed-loop wireless audio gaming system that utilize a proprietary 2.4 GHz communication technology to offer wireless streaming audio and chat/talkback capabilities. The devices are designed to operate with a PlayStation gaming console or PC-based system.

Additionally, the Stealth 600P Gen 2 USB has two versions that are 100% identical electrically and mechanically except for the color of their exterior plastics. The two model color variations are standard Black and White.

3.2 Equipment Configuration

A description of the equipment configuration is given in the Test Plan Section. The EUT was tested as called for in the test standard and was configured and operated in a manner consistent with its intended use. The EUT was connected to rated power and allowed to reach intended operating conditions. The placement of the EUT system components was guided by the test standard and selected to represent typical installation conditions.

In the case of an EUT that can operate in more than one configuration, preliminary testing was performed to determine the configuration that produced maximum radiation.

The final configuration was selected to produce the worst case radiation for emissions testing and to place the EUT in the most susceptible state for immunity testing.

3.3 Operating Mode

A description of the operation mode is given in the Test Plan Section. In the case of an EUT that can operate in more than one state, preliminary testing was performed to determine the operating mode that produced maximum radiation.

The final operating mode was selected to produce the worst case radiation for emissions testing and to place the EUT in the most susceptible state for immunity testing.

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3.4 Unique Antenna Connector

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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 manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of CFR47 Parts 15.211, 15.213, 15.217, 15.219, or 15.221.

3.4.1 Results

The Stealth600P-USB-TX uses the permanently attached PCB trace antenna inside the device. See EUT Photo for details.

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3.5 Duty Cycle

The Stealth600P-USB-TX, SN: PP1 was measured.

3.5.1 Results

| Mode | On Time (ms) | Period (ms) | Duty Cycle (%) | Duty Factor (dB) |
|--------|--------------|----------------|-------------------|------------------|
| 1 Mbps | 0.494 | 0.518 | 95.37 | 0.21 |
| 2 Mbps | 0.224 | 0.254 | 88.19 | 0.55 |

Notes: EUT was configured and measured for the duty cycle at each data rate.

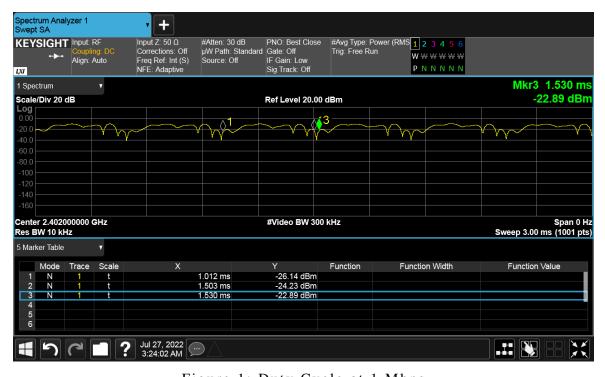


Figure 1: Duty Cycle at 1 Mbps

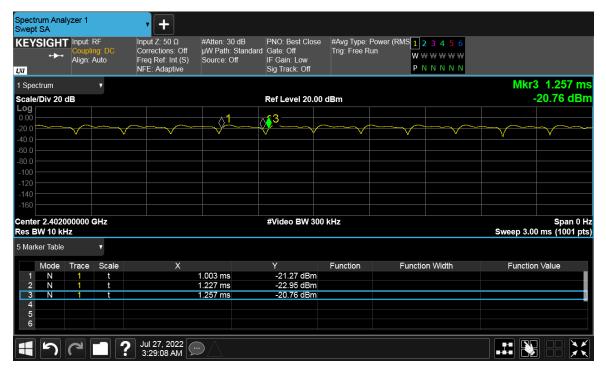


Figure 2: Duty Cycle at 2 Mbps

4 Emissions

Testing was performed in accordance with CFR 47 Part 15.247: 2021 and RSS 247: 2017. These test methods are listed under the laboratory's A2LA Scope of Accreditation. This test measures the levels emanating from the EUT, thus evaluating the potential for the EUT to cause radio frequency interference to other electronic devices. Procedures described in section 8 of the standard were used.

4.1 Output Power Requirements

The maximum output power requirement is the maximum equivalent isotropic radiated power delivering at the transmitting antenna under specified conditions of measurements in the presence of modulation.

The maximum output power and harmonics shall not exceed CFR47 Part 15.247 (b):2021 and RSS 247: 2017 Sect. 5.4 (d).

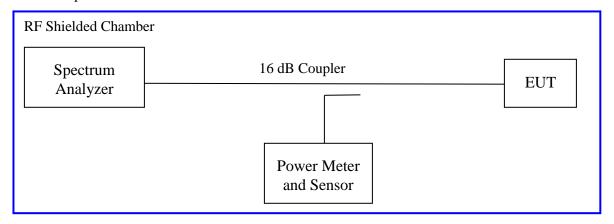
The maximum transmitted powers are

Band 2400-2483.5 MHz: 1 W

4.1.1 Test Method

The ANSI C63.10-2013 Section 11.9.2.2.2 conducted method was used to measure the channel power output. The preliminary investigation was performed at different data rate/ chain to determine the highest power output for each mode. The worst findings were conducted on 3 channels in each operating range per CFR47 Part 15.247(b): 2021 and RSS 247 Sect. 5.4 (d). This test was conducted on 3 channels of Sample, S/N PP #1. The worst mode result indicated below.

Test Setup:



Method AVGSA-2 of "KDB 558074 – DTS Measurement Guidance v05r02" applies since the EUT continuously transmits with duty cycle less than 98%. Sample detector was used.

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4.1.2 Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

Table 2: RF Output Power at the Antenna Port – Test Results

| Tuble 2. It output I ower at the Intermed of Test Results | | | | |
|---|-------------------------------|--|--|--|
| Test Date: July 26, 2022 | Test By: Abhijit Patibandla | | | |
| Test Method: Conducted Measurements | Power Setting: Fixed at 4 dBm | | | |
| Antenna Type: Integrated PCB | Max. Antenna Gain: -2.16 dBi | | | |
| Operating Mode: Uncorrelated | Signal State: Modulated | | | |
| Ambient Temp.: 23 °C | Relative Humidity: 41% | | | |

USB Wireless Audio Transmitter

| Frequency (MHz) | Limit [dBm] | Output [dBm] | Duty Cycle [dB] | \sum Power [dBm] | Margin [dB] | |
|--------------------|------------------|-----------------|--------------------|--------------------|----------------|--|
| | | 1 Mbps | s Data Rate | | | |
| 2402 | +30.00 | 3.71 | 0.21 | 3.92 | -26.08 | |
| 2442 | +30.00 | 3.41 | 0.21 | 3.62 | -26.38 | |
| 2480 | +30.00 | 3.07 | 0.21 | 3.28 | -26.72 | |
| | 2 Mbps Data Rate | | | | | |
| 2402 | +30.00 | 3.70 | 0.55 | 4.25 | -25.75 | |
| 2442 | +30.00 | 3.36 | 0.55 | 3.91 | -26.09 | |
| 2480 | +30.00 | 3.04 | 0.55 | 3.59 | -26.41 | |

Note: The USB Wireless Audio Transmitter transmitted at the duty cycle determined in Section 3.5.

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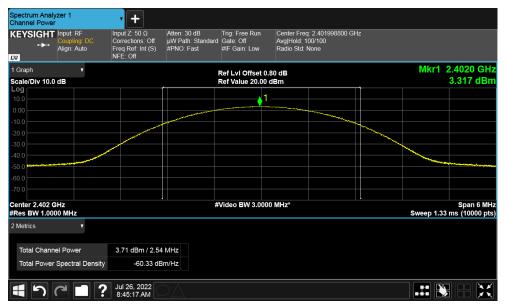


Figure 3: Maximum Transmitted Power, 2402 MHz at 1Mbps



Figure 4: Maximum Conducted Output Power at 2442 MHz at 1Mbps

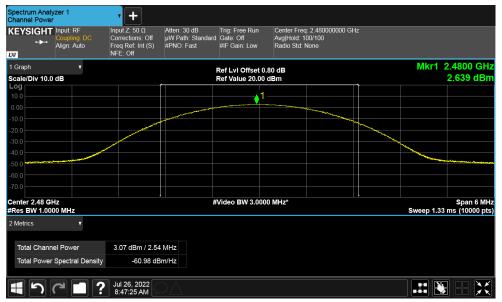


Figure 5: Maximum Conducted Output Power at 2480 MHz at 1Mbps



Figure 6: Maximum Conducted Output Power at 2402 MHz at 2Mbps

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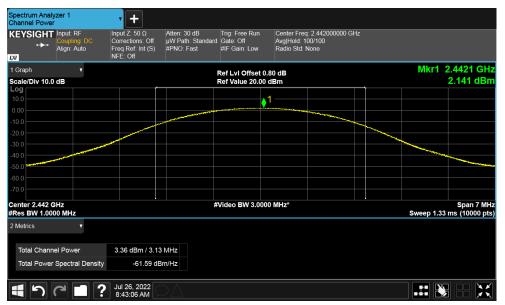


Figure 7: Maximum Conducted Output Power at 2442 MHz at 2Mbps



Figure 8: Maximum Conducted Output Power at 2480 MHz at 2Mbps

4.2 Occupied Bandwidth

The occupied bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency.

The 99% bandwidth is the bandwidth in which 99% of the transmitted power occupied.

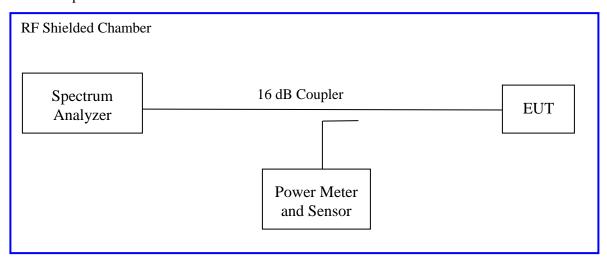
The minimum 6 dB bandwidth shall be at least 500 kHz.

The bandwidth shall be at least 500 kHz per Section CFR47 15.247(a2) 2021 and RSS 247 Sect.5.2 (a) 2017

4.2.1 Test Method

The conducted method was used to measure the occupied bandwidth according to ANSI C63.10:2013 Section 11.8.1. The measurement was performed with modulation per CFR47 15.247(a) (2) 2021 and RSS 247 Sect. 5.2 (a) 2017. The preliminary investigation was performed to find the narrowest 6 dB bandwidth for each operational mode at different data rates. This worst finding was performed on 3 channels in each operating frequency range; 2400 MHz to 2483.5 MHz. This test was conducted on 3 channels in each mode of Sample S/N PP #1. The worst sample result indicated below.

Test Setup:



4.2.2 Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

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Table 3: Occupied Bandwidth – Test Results

| Test Date: July 26, 2022 | Test By: Abhijit Patibandla |
|-------------------------------------|-------------------------------|
| Test Method: Conducted Measurements | Power Setting: Fixed at 4 dBm |
| Antenna Type: Integrated PCB | Max. Antenna Gain: -2.16 dBi |
| Operating Mode: Uncorrelated | Signal State: Modulated |
| Ambient Temp.: 23 °C | Relative Humidity: 41% |

| Bandwidth (MHz) for USB Wireless Audio Transmitter | | | | | |
|--|----------------|-------------|-------------------------|------------------------|---------|
| Frequency (MHz) | Rate (Mbps) | Limit (kHz) | 6 dB Bandwidth (MHz) | 99% Bandwidth (MHz) | Results |
| 2402 | 1 | 500 | 0.7182 | 1.0354 | Pass |
| 2442 | 1 | 500 | 0.7322 | 1.0407 | Pass |
| 2480 | 1 | 500 | 0.7166 | 1.0388 | Pass |
| 2402 | 2 | 500 | 1.3859 | 2.0487 | Pass |
| 2442 | 2 | 500 | 1.3821 | 2.0518 | Pass |
| 2480 | 2 | 500 | 1.3913 | 2.0480 | Pass |

Note: The USB Wireless Audio Transmitter transmitted at the duty cycle determined in Section 3.5.

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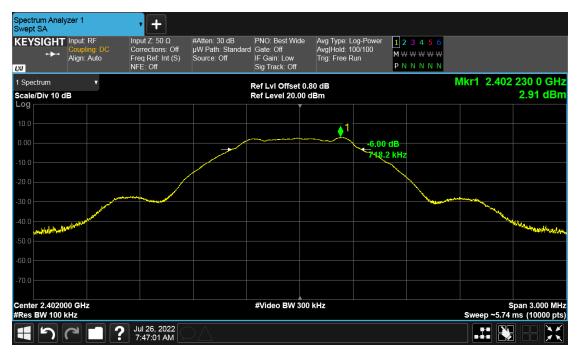


Figure 9: DTS Bandwidth 2402 MHz at 1 Mbps

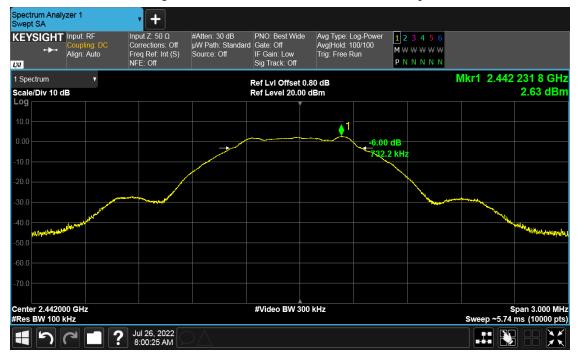


Figure 10: DTS Bandwidth 2442 MHz at 1 Mbps



Figure 11: DTS Bandwidth 2480 MHz at 1 Mbps

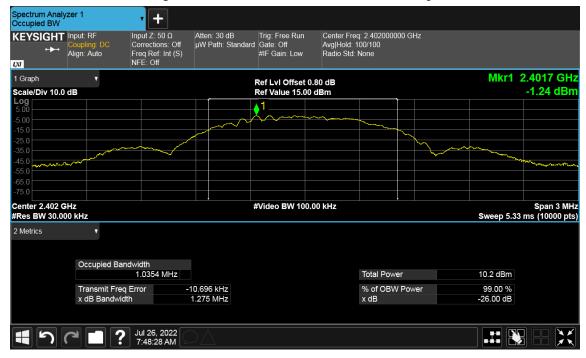
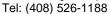


Figure 12: 99% Bandwidth 2402 MHz at 1Mbps



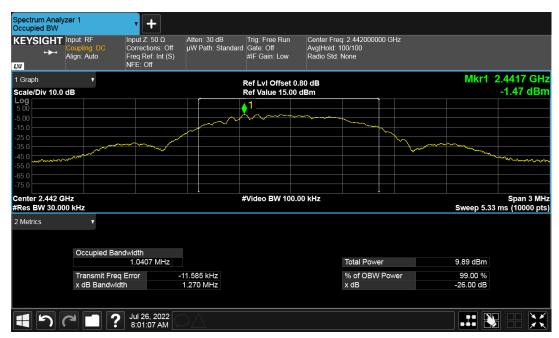


Figure 13: 99% Bandwidth 2442 MHz at 1Mbps

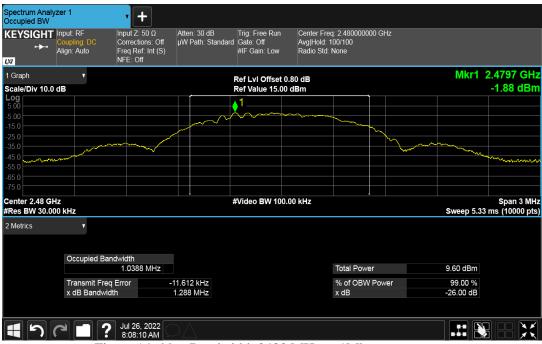


Figure 14: 99% Bandwidth 2480 MHz at 1Mbps

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Figure 15: DTS Bandwidth 2402 MHz at 2 Mbps



Figure 16: DTS Bandwidth 2442 MHz at 2 Mbps

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EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

Date: August 5, 2022. Rev 0

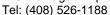




Figure 17: DTS Bandwidth 2480 MHz at 2 Mbps

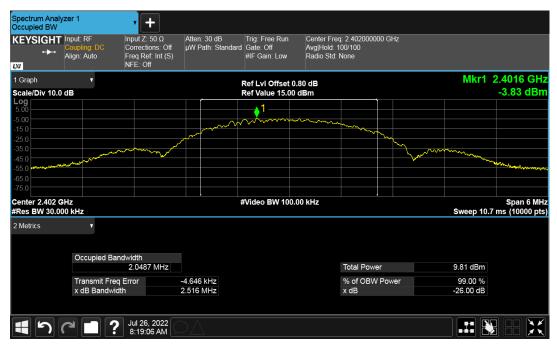


Figure 18: 99% Bandwidth 2402 MHz at 2 Mbps

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EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

Date: August 5, 2022. Rev 0



Figure 19: 99% Bandwidth 2442 MHz at 2 Mbps

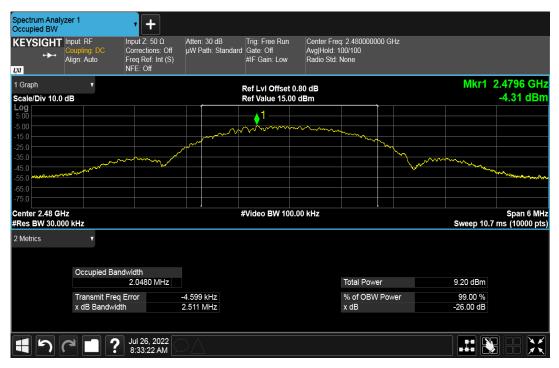


Figure 20: 99% Bandwidth 2480 MHz at 2 Mbps

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Date: August 5, 2022. Rev 0

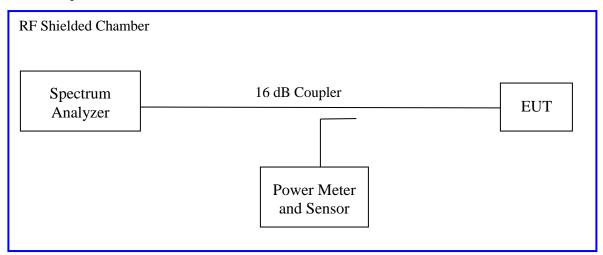
4.3 Peak Power Spectral Density

According to the CFR47 Part 15.247 (e) and RSS 247 Sect.5.2 (b), the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.3.1 Test Method

The conducted method was used to measure the channel power output per ANSI C63.10-2013 Section 11.10.3. The measurement was performed with modulation per CFR47 Part 15.247 (e) and RSS 247 Sect.5.2 (b). The pre-evaluation was performed to find the worst modes. The worst findings were conducted on 3 channels in each operating frequency range of 2400 MHz to 2483.5 MHz. This test was conducted on 3 channels of Sample SN PP #1. The worst sample result indicated below.

Test Setup:



4.3.2 Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

Report Number: SL22041907-CCP-224_6PMinus_TX_RF EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

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FCC ID: XGB-3176TX, IC: 3879A-3176TX

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Table 4: Peak Power Spectral Density – Test Results

| Test Date: July 26, 2022 | Test By: Abhijit Patibandla |
|-------------------------------------|-------------------------------|
| Test Method: Conducted Measurements | Power Setting: Fixed at 4 dBm |
| Antenna Type: Integrated PCB | Max. Antenna Gain: -2.16 dBi |
| Operating Mode: Uncorrelated | Signal State: Modulated |
| Ambient Temp.: 23 °C | Relative Humidity: 41% |

Peak Power Spectral Density

| | · · · · · · · · · · · · · · · · · · · | | | | | | | |
|-------------|---------------------------------------|-----------------|------------|-----------------|----------------|----------------|--|--|
| Freq. (MHz) | Config. | Output [dBm] | CF [dB] | Max. PPSD [dBm] | Limit [dBm] | Margin [dB] | | |
| 2402 | 1 Mbps | -2.75 | -15.02 | -17.77 | 8.00 | -25.77 | | |
| 2442 | 1 Mbps | -3.13 | -15.02 | -18.15 | 8.00 | -26.15 | | |
| 2480 | 1 Mbps | -3.28 | -15.02 | -18.30 | 8.00 | -26.30 | | |
| 2402 | 2 Mbps | -5.26 | -14.68 | -19.94 | 8.00 | -27.94 | | |
| 2442 | 2 Mbps | -5.90 | -14.68 | -20.58 | 8.00 | -28.58 | | |
| 2480 | 2 Mbps | -6.00 | -14.68 | -20.68 | 8.00 | -28.68 | | |

Note: CF accounted for the measured RBW and duty cycle correction.

The bandwidth ratio is 10*log (3kHz/100kHz) or -15.23 dB.

Since the USB Wireless Audio Transmitter transmitted at 95.37% duty cycle at 1 Mbps and 88.19% duty cycle at 2 Mbps, the final correction factor is -15.02 dB and -14.68; respectively.

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Figure 21: Maximum Power Spectral Density-2402 MHz at 1 Mbps



Figure 22: Maximum Power Spectral Density-2442 MHz at 1 Mbps



Figure 23: Maximum Power Spectral Density-2480 MHz at 1 Mbps



Figure 24: Maximum Power Spectral Density-2402 MHz at 2 Mbps

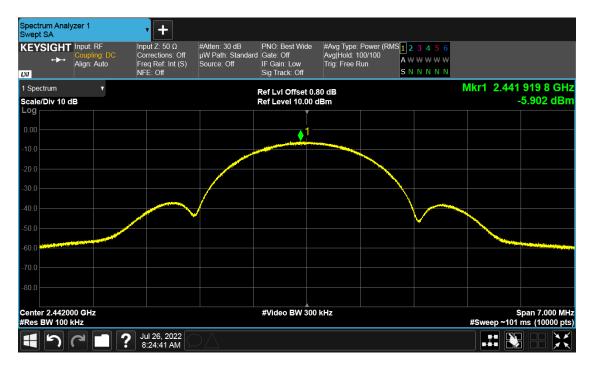


Figure 25: Maximum Power Spectral Density-2442 MHz at 2 Mbps

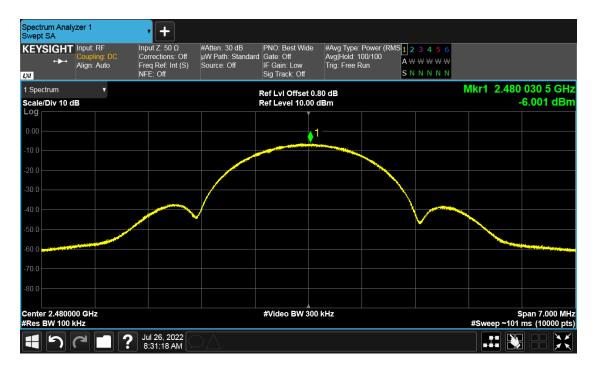


Figure 26: Maximum Power Spectral Density-2480 MHz at 2 Mbps

4.4 Out of Band Emissions

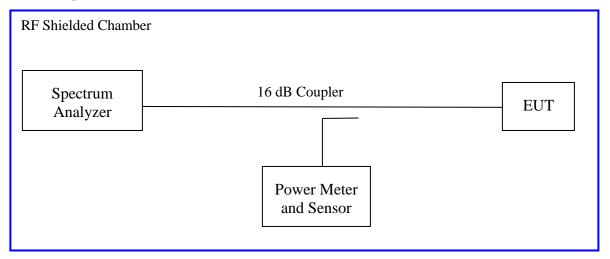
The setup was identical to RF output power measurement. Intentional radiators operating under the alternative provisions to the general emission limits, must be designed to ensure that the 20 dB or 30 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If the frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Since the transmitter complies with the conducted power limits base on the use of RMS averaging per CFR47 Part 15.247(b)(3), any frequency outside the band of 2400MHz to 2483.5MHz, the power output level must be below 30db from the in-band transmitting signal; CFR 47 Part 15.215, 15.247(d) and RSS-247 Sect.5.5..

4.4.1 Test Method

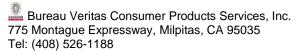
The conducted method was used to measure the out-of-band emission requirement. The measurement was performed with modulation per CFR47 15.247(4) (d) 2021 and RSS-247 Sect.5.5: 2017. This test was conducted on 3 channels of Sample S/N PP #1. The worst sample result indicated below.

Test Setup:



Report Number: SL22041907-CCP-224_6PMinus_TX_RF EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

Date: August 5, 2022. Rev 0



Out of Band Emissions

Report Number: SL22041907-CCP-224_6PMinus_TX_RF

EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

Date: August 5, 2022. Rev 0

4.4.2 Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

Table 5: Out of Band Emissions – Test Results

| 1 Word C. C. C. C. C. D. C. | | | | | |
|---|-------------------------------|--|--|--|--|
| Test Date: July 26, 2022 | Test By: Abhijit Patibandla | | | | |
| Test Method: Conducted Measurements | Power Setting: Fixed at 4 dBm | | | | |
| Antenna Type: Integrated PCB | Max. Antenna Gain: -2.16 dBi | | | | |
| Operating Mode: Uncorrelated | Signal State: Modulated | | | | |
| Ambient Temp.: 23 °C | Relative Humidity: 41% | | | | |

| Out of Band Results for USB Wireless Audio Transmitter | | | | | | | | |
|--|----------------|-------------------------|-----------------------|-------------|--|--|--|--|
| Frequency (MHz) | Rate (Mbps) | Out of Band Level (dBm) | 30 dBc Level (dBm) | Margin (dB) | | | | |
| 2402 | 1 | -34.99 | -27.18 | -7.81 | | | | |
| 2442 | 1 | -38.43 | -27.39 | -11.04 | | | | |
| 2480 | 1 | -43.31 | -27.77 | -15.54 | | | | |
| 2402 | 2 | -36.75 | -29.24 | -7.51 | | | | |
| 2442 | 2 | -38.86 | -29.70 | -9.16 | | | | |
| 2480 | 2 | -45.58 | -29.85 | -15.73 | | | | |

Note: dBc is defined as the level below the main carrier.

The band-edge level must be lower than the 30 dBc level.

The maximum out of band emission on each individual output is at least 30 dB below the maximum in-band PSD on that output.

(*) The band-edge is compared to the highest -30 dBc level of the test mode.

Report Number: SL22041907-CCP-224_6PMinus_TX_RF EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

Date: August 5, 2022. Rev 0

Function Value

... 💸

Spectrum Analyzer 1 Swept SA #Atten: 30 dB PNO: Fast µW Path: Standard Gate: Off Source: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 6
Avg|Hold: 100/100
Trig: Free Run KEYSIGHT Input: RF nput Z: 50 Ω $M \Leftrightarrow W \Leftrightarrow W \Leftrightarrow W$ PNNNNN LΧΙ Mkr1 2.402 233 GHz 1 Spectrum Ref LvI Offset 0.80 dB Ref Level 20.00 dBm 2.82 dBm Scale/Div 10 dB Center 2.40200 GHz #Res BW 100 kHz Span 150.0 MHz #Sweep 101 ms (10000 pts) #Video BW 300 kHz 5 Marker Table

Figure 27: Conducted Band Edge - 2402 MHz at 1 Mbps

2.825 dBm -47.63 dBm

2.402 233 GHz 2.400 000 GHz

? Jul 26, 2022 7:52:35 AM

5 6

Function

Function Width



Figure 28: Out of band Emission - 2402 MHz at 1 Mbps

Spectrum Analyzer 1 Swept SA + #Avg Type: Power (RMS 1 2 3 4 5 6 Avg|Hold: 100/100 Trig: Free Run M W W W W W KEYSIGHT Input: RF nput Z: 50 Ω #Atten: 30 dB μW Path: Standard Gate: Off Source: Off IF Gain: Low Sig Track: Off $M \leftrightsquigarrow \leftrightsquigarrow ᠃$ Align: Auto PNNNNN L)(I Mkr2 2.400 000 GHz 1 Spectrum Ref Lvi Offset 0.80 dB Ref Level 20.00 dBm -62.88 dBm Scale/Div 10 dB Center 2.44200 GHz #Res BW 100 kHz #Video BW 300 kHz Span 150.0 MHz #Sweep 101 ms (10000 pts) 5 Marker Table Function Function Width Function Value 2.442 233 GHz 2.400 000 GHz 2.611 dBm -62.88 dBm **?** Jul 26, 2022 8:02:53 AM

Figure 29: Conducted Band Edge - 2442 MHz at 1 Mbps



Figure 30: Out of band Emission - 2442 MHz at 1 Mbps

? Jul 26, 2022 8:09:51 AM

Spectrum Analyzer 1 Swept SA + KEYSIGHT Input: RF nput Z: 50 Ω #Atten: 30 dB μW Path: Standard Gate: Off Source: Off IF Gain: Low Align: Auto $M \leftrightsquigarrow \leftrightsquigarrow ᠃$ PNNNNN L)(I Mkr2 2.483 500 GHz 1 Spectrum Ref Lvi Offset 0.80 dB Ref Level 20.00 dBm -51.19 dBm Scale/Div 10 dB DL1 -27.77 dB Center 2.48000 GHz #Res BW 100 kHz Span 150.0 MHz #Sweep 101 ms (10000 pts) #Video BW 300 kHz 5 Marker Table Function Function Width Function Value 2.480 248 GHz 2.483 500 GHz 2.243 dBm -51.19 dBm

Figure 31: Conducted Band Edge - 2480 MHz at 1 Mbps

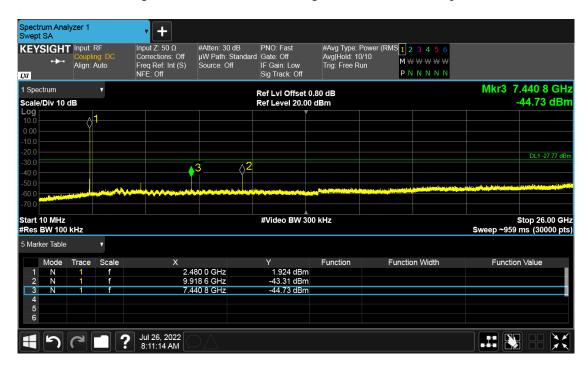


Figure 32: Out of band Emission - 2480 MHz at 1 Mbps

Function Value

... 💸

Spectrum Analyzer 1 Swept SA #Atten: 30 dB PNO: Fast µW Path: Standard Gate: Off Source: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 6
Avg|Hold: 100/100
Trig: Free Run KEYSIGHT Input: RF nput Z: 50 Ω $M \Leftrightarrow W \Leftrightarrow W \Leftrightarrow W$ PNNNNN LΧΙ Mkr2 2.400 000 GHz 1 Spectrum Ref LvI Offset 0.80 dB Ref Level 20.00 dBm -31.87 dBm Scale/Div 10 dB Span 150.0 MHz #Sweep 101 ms (10000 pts) Center 2.40200 GHz #Res BW 100 kHz #Video BW 300 kHz 5 Marker Table

Figure 33: Conducted Band Edge - 2402 MHz at 2 Mbps

0.7652 dBm -31.87 dBm

2.402 158 GHz 2.400 000 GHz

? Jul 26, 2022 8:21:08 AM

5 6

Function Width



Figure 34: Out of band Emission - 2402 MHz at 2 Mbps

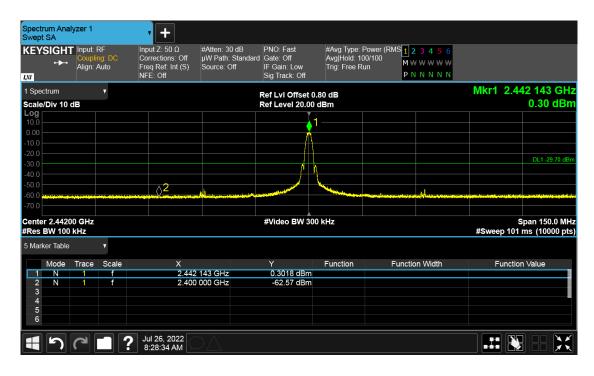


Figure 35: Conducted Band Edge - 2442 MHz at 2 Mbps



Figure 36: Out of band Emission - 2442 MHz at 2 Mbps

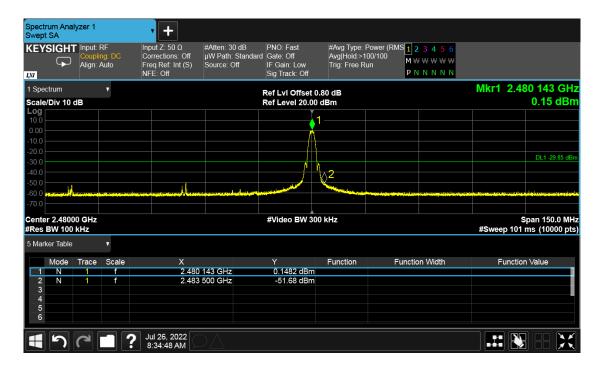


Figure 37: Conducted Band Edge - 2480 MHz at 2 Mbps



Figure 38: Out of band Emission - 2480 MHz at 2 Mbps

4.5 Transmit Spurious Emissions

Transmitter spurious emissions are emissions outside the frequency range of the equipment when the equipment is in transmit mode; per requirement of CFR47 15.205, 15.209, 15.247(d), RSS-Gen Sect. 8.9.

4.5.1 Test Methodology

4.5.1.1 Preliminary Test

A test program that controls instrumentation and data logging was used to automate the preliminary RF emission test procedure. The frequency range of interest was divided into subranges to yield a frequency resolution of approximately 120 kHz and provide a reading at each frequency for no more than 12° of turntable rotation. For each frequency sub-range the turntable was rotated 360° while peak emission data was recorded and plotted over the frequency range of interest in horizontal and vertical antenna polarization's.

Preliminary emission profile testing was performed inside the anechoic chamber. The EUT was placed on a 1.0m x 1.5m non-conductive table 80cm (<1 GHz) and 150cm (>1 GHz) above the floor. The EUT was positioned as shown in the setup photographs. The receiving antenna was placed at a distance of 3m at a fixed height of 1m. Measurement equipment was located outside of the chamber. A video camera was placed inside the chamber to view the EUT.

Pres-scans were performed to determine the worst case configuration for data rate.

4.5.1.2 Final Test

For each frequency measured, the peak emission was maximized by manipulating the receiving antenna from 1 to 4 meters above the ground plane and placing it at the position that produced the maximum signal strength reading. The turntable was then rotated through 360° while observing the peak signal and placing the EUT at the position that produced maximum radiation. The six highest emissions relative to the limit were measured unless such emissions were more than 20 dB below the limit. If less than six emissions are within 20 dB of the limit, than the noise level of the receiver is measured at frequencies where emissions are expected. Multiples of all oscillator and microprocessor frequencies were also checked.

Final testing was performed on an NSA compliant test site. The EUT was placed on a 1.0m x 1.5m non-conductive table 80cm (<1 GHz) and 150cm (>1 GHz) above the ground plane. The placement of EUT and cables were the same as for preliminary testing and is shown in the setup photographs.

The final scans performed on the worst axis, Y-Axis up, for three operating channels in each operating mode;

2402 MHz, 2442 MHz, and 2480 MHz

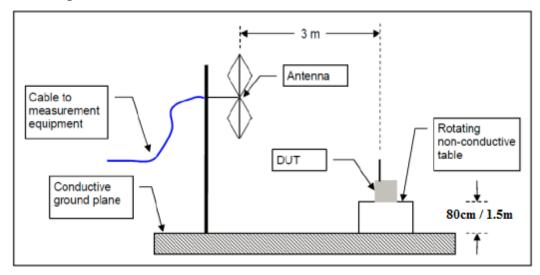
4.5.1.3 Deviations

None.

Report Number: SL22041907-CCP-224_6PMinus_TX_RF EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

Date: August 5, 2022. Rev 0

Test Setup:



4.5.2 **Transmitter Spurious Emission Limit**

The spurious emissions of the transmitter shall not exceed the values in CFR47 Part 15.205, 15.209: 2021 and RSS Gen Sect. 8.10: 2019.

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-----------------|-----------------------------------|-------------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 ** | 3 |
| 88-216 | 150 ** | 3 |
| 216-960 | 200 ** | 3 |
| Above 960 | 500 | 3 |

All harmonics and spurious emission which are outside of the restricted band shall be 20dB below the in-band emission.

4.5.3 Test Results

The final measurement data was taken under the worst case operating modes, configurations, and/or cable positions. It also reflects the results including any modifications and/or special accessories listed in Sections 1.4 and test plan.

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

Report Number: SL22041907-CCP-224_6PMinus_TX_RF

EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

Date: August 5, 2022. Rev 0

| Table 6: Transmit Spurious Emissions at Band-Edge Requirements | | | | | | | | |
|--|-------------------------------|--|--|--|--|--|--|--|
| Test Date: August 31, 2022 | Test By: Abhijit Patibandla | | | | | | | |
| Test Method: Radiated Measurements | Power Setting: Fixed at 4 dBm | | | | | | | |
| Antenna Type: Integrated PCB | Max. Antenna Gain: -2.16 dBi | | | | | | | |
| Operating Mode: Uncorrelated | Signal State: Modulated | | | | | | | |
| Ambient Temp.: 23 °C | Relative Humidity: 41% | | | | | | | |

Band-Edge Results

| | Antenna Polarity & Test Distance: Vertical and Horizontal at 3m | | | | | | | | | | | | | |
|-----|---|--------------|---------------------------|---------------------------|-------------|----------------------|----------------------|-------------------|-------------------|----------------------|----------------------|--------------|-------------|---------------|
| No. | Frequency (MHz) | Pol (H/V) | Reading AV (dBuV/m) | Reading PK (dBuV/m) | Factor (dB) | Level AV (dBuV/m) | Level PK dB(uV/m) | Limit AV (dBuV/m) | Limit PK (dBuV/m) | Margin AV (dB) | Margin PK (dB) | Hght (cm) | Angle (Deg) | Pass/ Fail |
| 1 | 2401.50 | Н | 57.80 | 63.60 | 35.10 | 92.90 | 98.70 | 54.00 | 74.00 | | | 196 | 20 | N/A* |
| 2 | 2402.55 | V | 57.20 | 63.40 | 35.10 | 92.30 | 98.50 | 54.00 | 74.00 | | | 146 | 337 | N/A* |
| 3 | 2390.00 | V | -1.10 | 12.40 | 35.00 | 33.90 | 47.40 | 54.00 | 74.00 | -20.10 | -26.60 | 132 | 360 | Pass |
| 4 | 2390.00 | Н | -0.70 | 12.60 | 35.00 | 34.30 | 47.60 | 54.00 | 74.00 | -19.70 | -26.40 | 253 | 125 | Pass |
| 5 | 2479.50 | V | 58.10 | 63.80 | 35.40 | 93.50 | 99.20 | 54.00 | 74.00 | | | 100 | 307 | N/A* |
| 6 | 2479.50 | Н | 56.90 | 62.60 | 35.40 | 92.30 | 98.00 | 54.00 | 74.00 | | | 213 | 36 | N/A* |
| 7 | 2483.50 | Н | 4.80 | 18.90 | 35.40 | 40.20 | 54.30 | 54.00 | 74.00 | -13.80 | -19.70 | 166 | 319 | Pass |
| 8 | 2483.50 | ٧ | 4.60 | 18.30 | 35.40 | 40.00 | 53.70 | 54.00 | 74.00 | -14.00 | -20.30 | 209 | 172 | Pass |

Note: The emissions were measured at the adjacent restricted band of the fundamental signal.

All the band-edge measurements met the restricted band requirements of CFR47 15.205

Band-edge measurement plots use a wider span than 2 MHz to evaluate additional spectrum bands for in-band leakage and spurious emission.

(*) Fundamental/ Inband emission.

Emission level (dBuV/m) = Reading Value (dBuV) + Factor (dB)

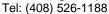
AF(dB/m) = Antenna Factor(dB/m) - Preamplifier Gain(dB).

Margin value = Emission level – Limit value.

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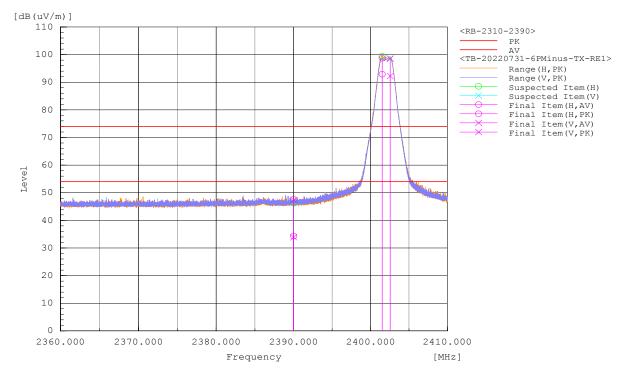


Figure 39: Band-edge at 2402 MHz

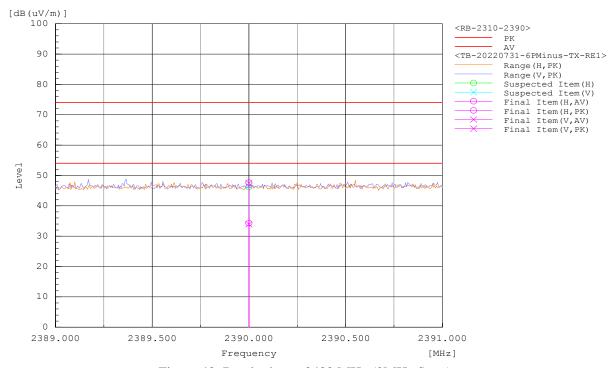
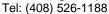


Figure 40: Band-edge at 2402 MHz (2MHz Span)

Report Number: SL22041907-CCP-224_6PMinus_TX_RF EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX



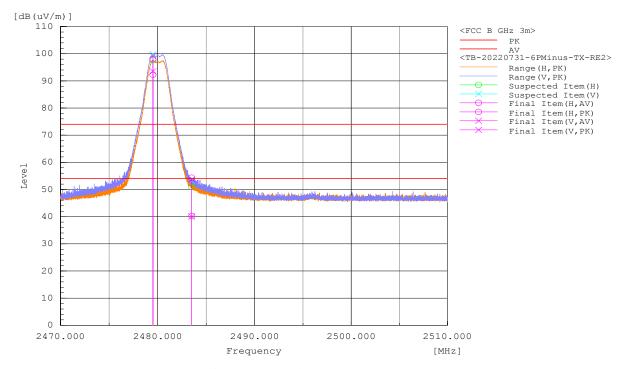


Figure 41: Band-edge at 2480 MHz

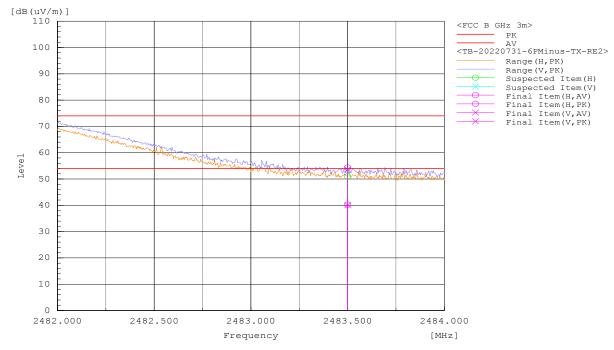


Figure 42: Band-edge at 2480 MHz (2MHz Span)

| Radiated | Radiated Emissions | | | | | | | | Page 1 of 6 | | | | |
|------------------|--|--------------------|----------------|----------|---------------------|---------------|--------------|-----------------|-----------------|--------------|--------|--|--|
| EUT Name | EUT Name USB Wireless Audio Transmitter | | | | | | | Date 07/30/2022 | | | | | |
| EUT Mode | EUT Model Stealth600P-USB-TX | | | | | | | m in | 23° | C / 38% R | Н | | |
| EUT Seria | PP #2 | | | | | Tem | p / Hu | m out | N/A | | | | |
| EUT Confi | g. EUT c | n Vertical P | osition | | | Line | AC/I | Freq | 5.0 | VDC | | | |
| Standard | CFR4 | 7 Part 15 St | ubpart C | | | RBW | / / VB\ | N | 120 | kHz/ 300 | kHz | | |
| Dist/Ant U | sed 3m/J | B6 & AL-13 | 0R | | | Perf | ormed | l by | Abh | ijit Patibar | ndla | | |
| Freq. | Raw | Corrd' | Level | Det. | Pol. | Hght. | Azt | Lim | it | Margin | Result | | |
| MHz | dBuV/m | dB | dBuV/m | | H/V | cm | deg | dBuV | ⁷ /m | dB | | | |
| | 9 kHz to 1 GHz, Transmitted Data at 2402 MHz | | | | | | | | | | | | |
| 0.713 | 15.30 | 48.90 | 64.20 | Pk | Z-Axis | 100 | 339 | 70.5 | 50 | -6.30 | Pass | | |
| 0.816 | 15.30 | 47.90 | 63.20 | Pk | Z-Axis | 100 | 105 | 69.4 | 10 | -6.20 | Pass | | |
| 0.517 | 15.10 | 51.40 | 66.50 | Pk | Z-Axis | 100 | 301 | 73.3 | 08 | -6.80 | Pass | | |
| 61.84 | 12.60 | 11.90 | 24.50 | QP | V | 141 | 15 | 40.0 | 00 | -15.50 | Pass | | |
| 42.79 | 6.30 | 15.80 | 22.10 | QP | V | 106 | 359 | 40.0 | 00 | -17.90 | Pass | | |
| 67.50 | 1.50 | 12.10 | 13.60 | QP | V | 114 | 10 | 40.0 | 00 | -26.40 | Pass | | |
| 96.23 | 4.90 | 13.90 | 18.80 | QP | V | 100 | 348 | 43.5 | 0 | -24.70 | Pass | | |
| 113.73 | 5.30 | 17.20 | 22.50 | QP | V | 106 | 64 | 43.5 | 50 | -21.00 | Pass | | |
| 133.42 | 0.10 | 17.60 | 17.70 | QP | V | 106 | 318 | 43.5 | 50 | -25.80 | Pass | | |
| 43.31 | 3.10 | 15.40 | 18.50 | QP | V | 103 | 89 | 40.0 | 00 | -21.50 | Pass | | |
| | n = Level - Li Sain + ANT F | | Raw+ Cbl+ Cl | F ± Unce | ertainty | | | | | | | | |
| Combined St | andard Uncert | ainty $u_c(y) = 1$ | ± 3.51 dB Expa | anded Ur | ncertainty <i>U</i> | $l = ku_c(y)$ |) <u>k</u> = | 2 for 95 | % cor | nfidence | | | |
| Note: The v | vorst case e | mission wa | s observed o | n Chan | nel 2402 l | MHz. | | | | · | | | |

Report Number: SL22041907-CCP-224_6PMinus_TX_RF

EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

There were no significant emissions observed from 9 kHz to 30 MHz.

| Radiated | Radiated Emissions Page 2 of 6 | | | | | | | | | | |
|--|--------------------------------|-----------------|----------------|------------|--------|------------|------------|----------------|------------------|---------------------|--|
| EUT Name | | 3 Wireless | Audio Tr | ansmitter | | | Date | _ | 07/31 | /2022 | |
| EUT Model | | alth600P-L | | <u> </u> | | | _ | p / Hum i | | / 42% RH | |
| EUT Serial PP #2 Temp / Hum out N/A | | | | | | | | | | | |
| EUT Config | . EU1 | on Vertic | al Positio | n | | | | AC / Fre | | DC . | |
| Standard | CFF | R47 Part 1 | 5 Subpar | t C | | | RBW | / VBW | 1 MH: | z / 3 MHz | |
| Dist/Ant Us | ed 3m | / 3117, 1m | า / SAS-5 | 74 | | | Perf | ormed by | Abhiji | t Patibandla | |
| Freq | Raw | Corrd' | Level | Det | Pol | Hght | Azt | Limit | Margin | Comment | |
| MHz dBuV/m dB dBuV/m H/V cm deg dBuV/m dB | | | | | | | | | | | |
| Transmitted Data at 2402 MHz 16754.96 48.30 -2.80 45.50 Pk H 138 87 74.00 -28.50 Spurious | | | | | | | | | | | |
| | 36.60 | -2.80 -2.80 | | | Н | 138 | 87 | 54.00 | -20.20 | • | |
| 16754.96 | | | 33.80 | Ave Pk | Н | | | | | Spurious Harmonics | |
| 19217.51 | 36.30 | -1.30 | 35.00 | | | 115 | 193 | 74.00 | -39.00 | | |
| 19217.51 4803.74 | 26.10 57.60 | -1.30 -17.40 | 24.80 40.20 | Ave Pk | H V | 115 246 | 193 214 | 54.00 74.00 | -29.20 -33.80 | Harmonics Harmonics | |
| 4803.74 | 48.20 | -17.40 | 30.80 | Ave | V | 246 | 214 | 54.00 | -33.80 | Harmonics | |
| 9608.62 | 59.00 | -9.90 | 49.10 | Pk | V | 170 | 183 | 74.00 | -23.20 -24.90 | Harmonics | |
| 9608.62 | 51.10 | -9.90 -9.90 | 49.10 | Ave | V | 170 | 183 | 54.00 | -24.90 -12.80 | Harmonics | |
| 16797.01 | 48.90 | -2.70 | 46.20 | Pk | V | 246 | 43 | 74.00 | -12.80 | Spurious | |
| 16797.01 | 36.20 | -2.70 | 33.50 | Ave | V | 246 | 43 | 54.00 | -20.50 | Spurious | |
| Transmitted Data at 2442 MHz | | | | | | | | | | | |
| 16751.76 | 47.90 | -2.80 | 45.10 | Pk | Н | 147 | 92 | 74.00 | -28.90 | Spurious | |
| 16751.76 | 36.40 | -2.80 | 33.60 | Ave | Н | 147 | 92 | 54.00 | -20.40 | Spurious | |
| 19537.11 | 38.10 | -1.70 | 36.40 | Pk | Н | 159 | 185 | 74.00 | -37.60 | Harmonics | |
| 19537.11 | 28.60 | -1.70 | 26.90 | Ave | Н | 159 | 185 | 54.00 | -27.10 | Harmonics | |
| 4883.73 | 57.60 | -17.50 | 40.10 | Pk | V | 169 | 276 | 74.00 | -33.90 | Harmonics | |
| 4883.73 | 47.50 | -17.50 | 30.00 | Ave | V | 169 | 276 | 54.00 | -24.00 | Harmonics | |
| 9767.29 | 58.40 | -9.60 | 48.80 | Pk | V | 160 | 172 | 74.00 | -25.20 | Harmonics | |
| 9767.29 | 49.90 | -9.60 | 40.30 | Ave | V | 160 | 172 | 54.00 | -13.70 | Harmonics | |
| 16791.88 | 48.70 | -2.70 | 46.00 | Pk | V | 179 | 49 | 74.00 | -28.00 | Spurious | |
| 16791.88 | 36.60 | -2.70 | 33.90 | Ave | V | 179 | 49 | 54.00 | -20.10 | Spurious | |
| 10791.00 | 30.00 | -2.70 | | ransmitted | | | | 34.00 | -20.10 | Spurious | |
| 16765 72 | 40.40 | 2.00 | 46.30 | Pk | H | | | 74.00 | 27.70 | Spurious | |
| 16765.73 16765.73 | 49.10 37.00 | -2.80 -2.80 | 34.20 | _ | Н | 170 170 | 131 131 | 54.00 | -27.70 -19.80 | Spurious Spurious | |
| 19841.81 | 39.10 | -2.30 | 36.80 | Ave Pk | Н | 170 | 221 | 74.00 | -37.20 | Harmonics | |
| 19841.81 | 29.90 | -2.30 | 27.60 | Ave | Н | 170 | 221 | 54.00 | -26.40 | Harmonics | |
| 4959.95 | 57.60 | -2.50 | 40.10 | Pk | V | 127 | 261 | 74.00 | -33.90 | Harmonics | |
| 4959.95 | 48.90 | -17.50 | 31.40 | Ave | V | 127 | 261 | 54.00 | -22.60 | Harmonics | |
| 9919.15 | 57.80 | -9.30 | 48.50 | Pk | V | 180 | 178 | 74.00 | -25.50 | Harmonics | |
| 9919.15 | 49.70 | -9.30 | 40.40 | Ave | V | 180 | 178 | 54.00 | -13.60 | Harmonics | |
| 16733.28 | 48.40 | -2.80 | 45.60 | Pk | V | 191 | 211 | 74.00 | -28.40 | Spurious | |
| 16733.28 | 37.30 | -2.80 | 34.50 | Ave | V | 191 | 211 | 54.00 | -19.50 | Spurious | |
| 10100.20 | 57.50 | 2.00 | JJU | 716 | _ v | 191 | 411 | J-1.00 | 10.00 | Sparrous | |

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EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

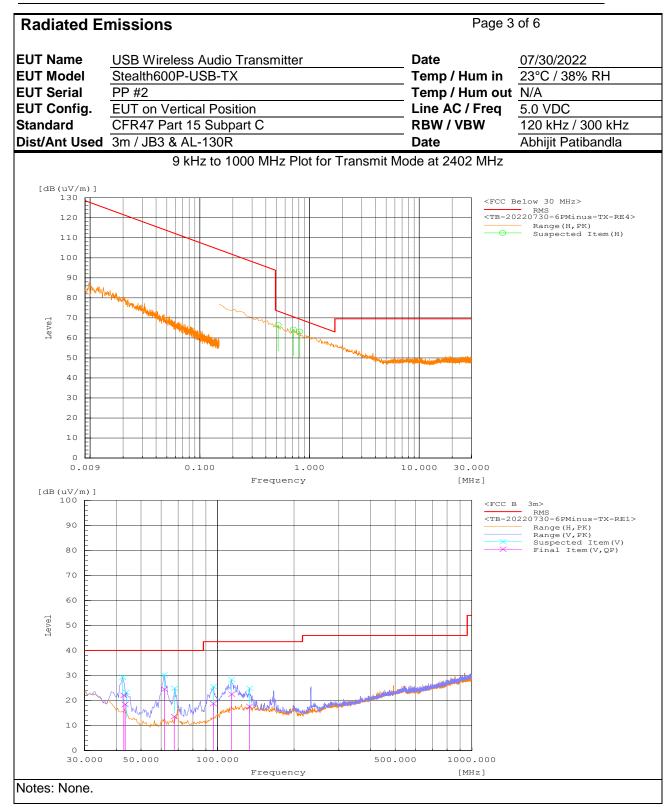
Spec Margin = Level - Limit, Level = Raw+ Cbl+ CF ± Uncertainty. CF= Amp Gain + ANT Factor

Combined Standard Uncertainty $u_c(y) = \pm 4.91$ dB Expanded Uncertainty $U = ku_c(y)$ k = 2 for 95% confidence

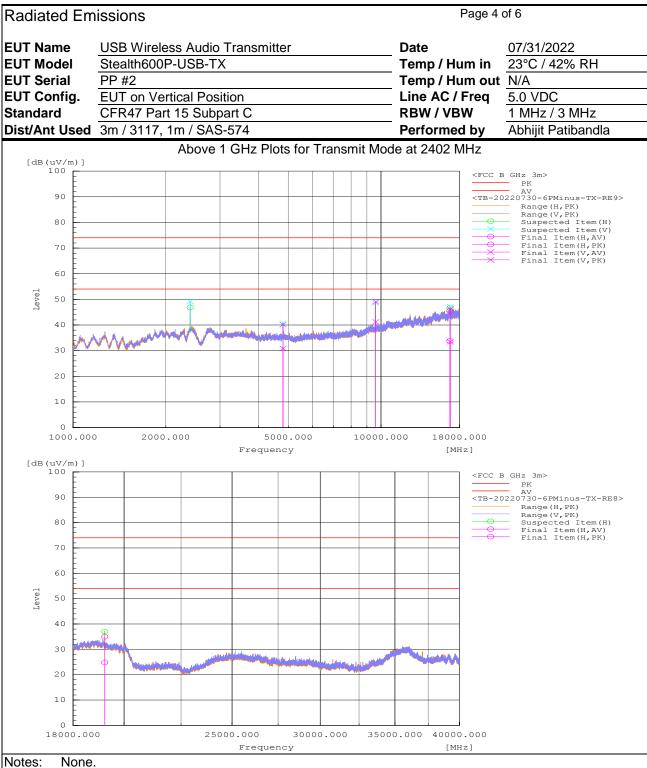
Notes: All emissions passed the spurious emission limit.

Report Number: SL22041907-CCP-224_6PMinus_TX_RF EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

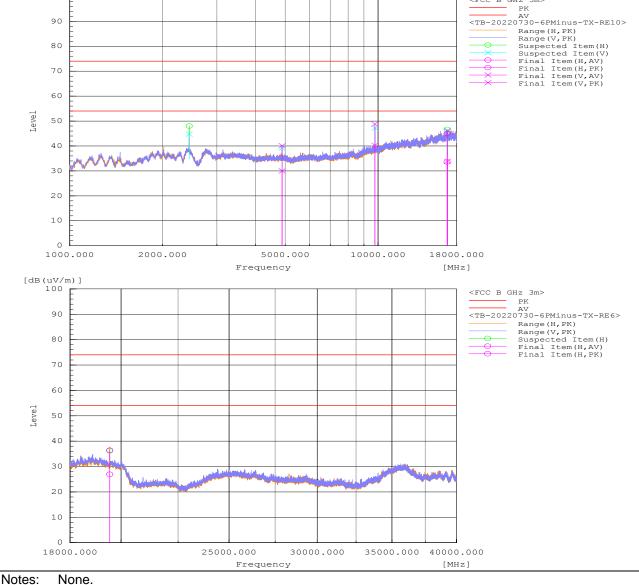
Date: August 5, 2022. Rev 0



16. (400) 020 1100



Page 5 of 6 Radiated Emissions **EUT Name USB Wireless Audio Transmitter** 07/31/2022 **EUT Model** Stealth600P-USB-TX 23°C / 42% RH Temp / Hum in PP #2 **EUT Serial** Temp / Hum out N/A **EUT Config. EUT on Vertical Position** Line AC / Freq 5.0 VDC CFR47 Part 15 Subpart C **RBW / VBW** 1 MHz / 3 MHz Standard Dist/Ant Used 3m / 3117, 1m / SAS-574 Performed by Abhijit Patibandla Above 1 GHz Plots for Transmit Mode at 2442 MHz [dB(uV/m)] 100 <FCC B GHz 3m> AV <TB-20220730-6PMinus-TX-RE10> 90



Page 6 of 6 Radiated Emissions **EUT Name USB Wireless Audio Transmitter Date** 07/31/2022 **EUT Model** Stealth600P-USB-TX Temp / Hum in 23°C / 42% RH PP #2 **EUT Serial** Temp / Hum out N/A **EUT Config. EUT on Vertical Position** Line AC / Freq 5.0 VDC Standard CFR47 Part 15 Subpart C **RBW / VBW** 1 MHz / 3 MHz Dist/Ant Used 3m / 3117, 1m / SAS-574 Performed by Abhijit Patibandla Above 1 GHz Plots for Transmit Mode at 2480 MHz [dB(uV/m)] 100 <FCC B GHz 3m> PK AV <TB-20220730-6PMinus-TX-RE11> 90 0730-6PMinus-TX-RE Range (H, PK) Range (V, PK) Suspected Item (H) Suspected Item (V) Final Item (H, AV) Final Item (H, PK) Final Item (V, PK) 80 70 60 50 40 30 20 1.0 2000.000 10000.000 18000.000 1000.000 5000.000 [MHz] Frequency [dB(uV/m)] 100 <FCC B GHz 3m> PK _____ AV <TB-20220730-6PMinus-TX-RE7> 90 0/30-6PMinus-TX-RE
Range(H,PK)
Range(V,PK)
Suspected Item(H)
Final Item(H,AV)
Final Item(H,PK) 80 70 60 50 40 30 20 10

25000.000

Frequency

18000.000

None.

Notes:

30000.000

35000.000 40000.000

[MHz]

4.5.4 Sample Calculation

The field strength is calculated by subtracting the Amplifier Gain and adding the Cable Loss and Antenna Correction Factor to the measured reading. The basic equation is as follows:

$$\begin{aligned} \text{Field Strength } (dB\mu V/m) &= \text{FIM - AMP} + \text{CBL} + \text{ACF} \\ \text{Where: } \text{FIM} &= \text{Field Intensity Meter } (dB\mu V) \\ \text{AMP} &= \text{Amplifier Gain } (dB) \\ \text{CBL} &= \text{Cable Loss } (dB) \\ \text{ACF} &= \text{Antenna Correction Factor } (dB/m) \\ \mu V/m &= 10^{\frac{dB\mu V/m}{20}} \end{aligned}$$

Report Number: SL22041907-CCP-224_6PMinus_TX_RF EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

4.6 AC Conducted Emissions

Testing was performed in accordance with ANSI C63.10: 2013. These test methods are listed under the laboratory's A2LA Scope of Accreditation.

This test measures the levels emanating from the EUT's AC input port, thus evaluating the potential for the EUT to cause radio frequency interference to other electronic devices.

The AC conducted emissions of equipment under test shall not exceed the values in CFR47 Part 15.207: 2021 and RSS Gen: 2019 Sect. 8.8.

4.6.1 Test Methodology

A test program that controls instrumentation and data logging was used to automate the AC Power Line Conducted emission test procedure. The frequency range of interest was divided into subranges such as to yield a frequency resolution of 9 kHz. Each phase and neutral of the AC power line were measured with respect to ground. Measurements were performed using a set of $50\mu H/50\Omega$ LISNs.

Testing is performed in Conducted Emission Station. The setup photographs clearly identify which site was used. The vertical ground plane used in the semi-anechoic chamber is a 2m x 2m solid aluminum frame and panel, and it is bonded to the horizontal ground plane.

In the case of tabletop equipment, the EUT is placed on a 1.0m x 1.5m non-conductive table 80cm above the ground plane and 40cm from a vertical ground reference plane. The rear of the EUT was positioned flush with the backside of the table and directly over the LISNs. The power and I/O cables were routed over the edge of the table and bundled approximately 40cm from the ground plane. Support equipment was powered from a separate LISN.

4.6.1.1 Deviations

There were no deviations from this test methodology.

4.6.2 Test Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

Table 7: AC Conducted Emissions – Test Results

| Test Conditions: Conducted Meas | urement | Test Date: July 27, 2022 | | | |
|-----------------------------------|---------|---------------------------------|-------------|--|--|
| Antenna Type: Integrated | | Power Level: 4 | | | |
| AC Power: USB Host Computer | | Configuration: Tabletop | | | |
| Ambient Temperature: 23° C | | Relative Humidity: 40% RH | | | |
| Configuration | Frequ | ency Range | Test Result | | |
| Line 1 (Hot) | 0.15 | to 30 MHz | Pass | | |
| Line 2 (Neutral) | 0.15 | to 30 MHz | Pass | | |

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EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

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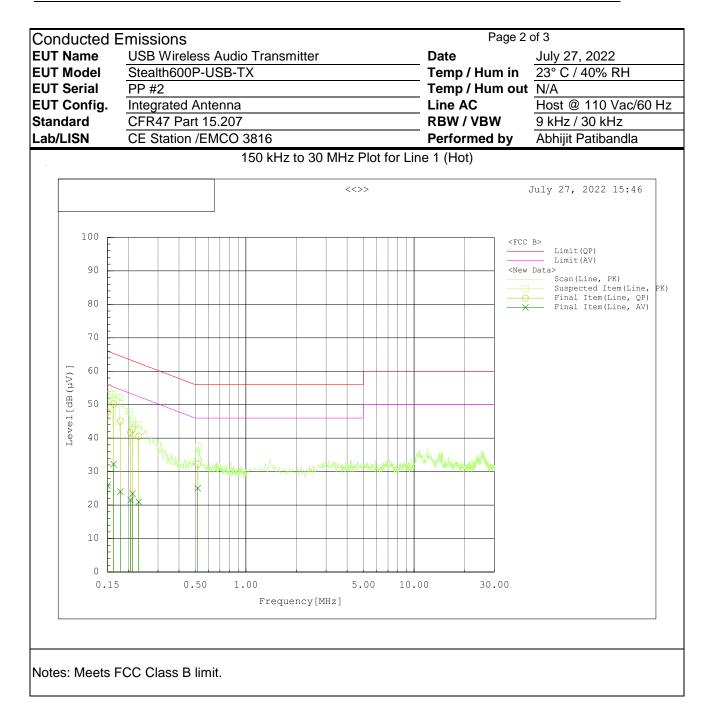
Tel: (408) 526-1188

| Conducted Emissions Page 1 of 3 | | | | | | | | | | |
|-------------------------------------|---|---------------|-------|------------------------------|---------|--|-----------------|----------|--|--|
| EUT Name EUT Model EUT Serial | Stealth60 PP #2 | Fransmitter | | Date Temp / F Temp / F | lum out | July 27, 2022 23° C / 40% RH N/A | | | | |
| EUT Config. | Integrated | d Antenna | | | Line AC | • | Host @ 110 Va | ac/60 Hz | | |
| Standard | CFR47 P | art 15.207 | | | RBW / V | BW | 9 kHz / 30 kHz | | | |
| Lab/LISN | | on /EMCO 3 | 816 | | Perform | | Abhijit Patiban | dla | | |
| Frequency | Raw | Corrd' | Level | Detector | Line | Limit | Margin | Result | | |
| MHz | dBuV | dB | dBuV | | Line | dBuV | dB | | | |
| 0.150 | 38.20 | 9.60 | 47.80 | QP | Line | 66.00 | -18.20 | Pass | | |
| 0.150 | 16.20 | 9.60 | 25.80 | Ave | Line | 56.00 | -30.20 | Pass | | |
| 0.163 | 40.60 | 9.60 | 50.20 | QP | Line | 65.30 | -15.10 | Pass | | |
| 0.163 | 22.60 | 9.60 | 32.20 | Ave | Line | 55.30 | -23.10 | Pass | | |
| 0.179 | 35.50 | 9.60 | 45.10 | QP | Line | 64.50 | -19.40 | Pass | | |
| 0.179 | 14.40 | 9.60 | 24.00 | Ave | Line | 54.50 | -30.50 | Pass | | |
| 0.206 | 32.10 | 9.60 | 41.70 | QP | Line | 63.40 | -21.70 | Pass | | |
| 0.206 | 11.90 | 9.60 | 21.50 | Ave | Line | 53.40 | -31.90 | Pass | | |
| 0.212 | 33.10 | 9.60 | 42.70 | QP | Line | 63.10 | -20.40 | Pass | | |
| 0.212 | 13.80 | 9.60 | 23.40 | Ave | Line | 53.10 | -29.70 | Pass | | |
| 0.230 | 31.10 | 9.50 | 40.60 | QP | Line | 62.40 | -21.80 | Pass | | |
| 0.230 | 11.50 | 9.50 | 21.00 | Ave | Line | 52.40 | -31.40 | Pass | | |
| 0.517 | 22.90 | 9.40 | 32.30 | QP | Line | 56.00 | -23.70 | Pass | | |
| 0.517 | 15.60 | 9.40 | 25.00 | Ave | Line | 46.00 | -21.00 | Pass | | |
| 0.150 | 36.80 | 9.60 | 46.40 | QP | Neutral | 66.00 | -19.60 | Pass | | |
| 0.150 | 15.70 | 9.60 | 25.30 | Ave | Neutral | 56.00 | -30.70 | Pass | | |
| 0.163 | 40.40 | 9.60 | 50.00 | QP | Neutral | 65.30 | -15.30 | Pass | | |
| 0.163 | 22.50 | 9.60 | 32.10 | Ave | Neutral | 55.30 | -23.20 | Pass | | |
| 0.171 | 39.40 | 9.60 | 49.00 | QP | Neutral | 64.90 | -15.90 | Pass | | |
| 0.171 | 20.40 | 9.60 | 30.00 | Ave | Neutral | 54.90 | -24.90 | Pass | | |
| 0.183 | 36.70 | 9.60 | 46.30 | QP | Neutral | 64.30 | -18.00 | Pass | | |
| 0.183 | 16.30 | 9.60 | 25.90 | Ave | Neutral | 54.30 | -28.40 | Pass | | |
| 0.200 | 34.60 | 9.60 | 44.20 | QP | Neutral | 63.60 | -19.40 | Pass | | |
| 0.200 | 14.70 | 9.60 | 24.30 | Ave | Neutral | 53.60 | -29.30 | Pass | | |
| 0.211 | 33.30 | 9.60 | 42.90 | QP | Neutral | 63.10 | -20.20 | Pass | | |
| 0.211 | 13.40 | 9.60 | 23.00 | Ave | Neutral | 53.10 | | Pass | | |
| 0.234 | 30.00 | 9.50 | 39.50 | QP | Neutral | 62.30 | | Pass | | |
| 0.234 | 10.60 | 9.50 | 20.10 | Ave | Neutral | 52.30 | | Pass | | |
| 0.515 | 20.10 | 9.40 | 29.50 | QP | Neutral | 56.00 | -26.50 | Pass | | |
| 0.515 | 12.90 | 9.40 | 22.30 | Ave | Neutral | 46.00 | | Pass | | |
| Spec Margin = | | mit, ± Uncert | ainty | • | • | · | • | • | | |
| Combined Stand | | | | d Uncertainty $\it U$ | | | % confidence | | | |
| Notes: EUT | Notes: EUT was setup as table top equipment and transmitted at 2402 MHz | | | | | | | | | |

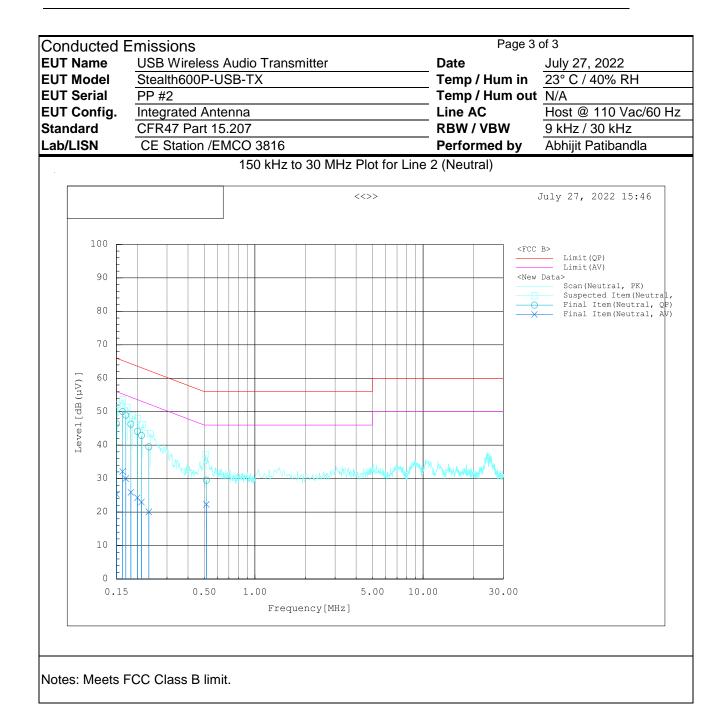
Report Number: SL22041907-CCP-224_6PMinus_TX_RF

EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

161. (166) 626 1166



Report Number: SL22041907-CCP-224_6PMinus_TX_RF EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX



5.1 Equipment List

| Equipment | Manufacturer | Model # | Serial/Inst # | Last Cal mm/dd/yyyy | Next Cal mm/dd/yyyy |
|-----------------------------------|------------------|-------------|----------------------|------------------------|------------------------|
| LISN | ETS-Lindgren | 3816/2NM | 214372 | 01/11/2022 | 01/11/2023 |
| Transient Limiter | Electro-Metrics | EM-7600-5 | 106 | 09/22/2021 | 09/22/2022 |
| EMI Receiver | Rhode&Schwarz | ESIB | 100179 | 09/22/2021 | 09/22/2022 |
| Loop Antenna | ETS-Lindgren | 6512 | 00049120 | 03/08/2022 | 03/08/2024 |
| Bilog Antenna | Sunol Sciences | JB6 | A111717 | 09/04/2020 | 09/04/2022 |
| Horn Ant. (1-18GHz) | ETS-Lindgren | 3117 | 218554 | 04/21/2021 | 04/21/2023 |
| Horn Ant. (18-40GHz) | A.H Systems, In. | SAS-574 | 579 | 08/05/2020 | 08/05/2022 |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY51440112 | 11/21/2021 | 11/21/2022 |
| EMI Receiver | Rohde & Schwarz | ESW44 | 1328.4100K-101662-MH | 09/22/2021 | 09/22/2022 |
| Preamplifier | RF-Lambda | RAMP00M50GA | 18040300055 | 02/28/2022 | 02/28/2023 |
| Power Sensor | ETS Lindgren | 7002-006 | 00159814 | 01/16/2022 | 01/16/2023 |
| Humidity/ Baro/ Temp. Recorder | PCE Instruments | PCE-THB 40 | Q907623 | 08/31/2021 | 08/31/2022 |
| DC Power Source | Agilent | E3610A | MY40002494 | 02/25/2022 | 02/25/2023 |
| Notch Filter | Micro-Tronics | BRM50702 | NA | VBU | VBU |

^{*} Calibration of equipment past due for re-calibration will be performed expeditiously. If any equipment is found to be out of tolerance at that time, affected customers will be notified accordingly.

Report Number: SL22041907-CCP-224_6PMinus_TX_RF

EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

Date: August 5, 2022. Rev 0



6.1 Introduction

This section provides a description of the Equipment Under Test (EUT), configurations, operating conditions, and performance acceptance criteria. It is an overview of information provided by the manufacturer so that the test laboratory may perform the requested testing.

6.2 Customer

Table 8: Customer Information

| Company Name | Voyetra Turtle Beach, Inc. |
|---------------------|------------------------------|
| Address | 44 South Broadway, 4th Floor |
| City, State, Zip | White Plains NY 10601 |
| Country | USA |

Table 9: Technical Contact Information

| Name Tim Blaney | | | | |
|-----------------|-------------------|--|--|--|
| E-mail | tim@commcepts.net | | | |
| Phone | (530) 277-3482 | | | |

Report Number: SL22041907-CCP-224_6PMinus_TX_RF

EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

Date: August 5, 2022. Rev 0

6.3 Equipment Under Test (EUT)

Table 10: EUT Specifications

| EUT Specification | | | | | | | |
|--|--|--|--|--|--|--|--|
| Package Dimensions | 51.5 mm (2.0") x 15 mm (0.6") x 7.8 mm (0.3") | | | | | | |
| Power Input | Input Voltage: 5.0 Vdc via Host USB port. | | | | | | |
| Environment | Indoor | | | | | | |
| Operating Temperature Range: | 0 to 50 degrees C | | | | | | |
| Multiple Feeds: | Yes and how many No | | | | | | |
| Product Marketing Name (PMN) | Stealth600P-USB-TX | | | | | | |
| Hardware Version Identification Number (HVIN) | 600P-USB-TX | | | | | | |
| Firmware Version Identification Number (FVIN) | 4.14.15.1 | | | | | | |
| Operating Mode | TestCommon Unit Test 1.0.4.8 | | | | | | |
| Transmitter Frequency Band | 2402 MHz to 2480 MHz | | | | | | |
| Max. Measured Power Output | +4.25 dBm | | | | | | |
| Power Setting @ Operating Channel | +4.0 dBm | | | | | | |
| Antenna Type | Integrated PCB (-2.16 dBi) | | | | | | |
| Modulation Type | ☐ AM ☐ FM ☐ DSSS ☐ OFDM ☐ Other describe: GFSK | | | | | | |
| Date Rates | 1 Mbps and 2 Mbps | | | | | | |
| TX/RX Chain (s) | 1 | | | | | | |
| Directional Gain Type | ✓ Uncorrelated✓ No Beam-Forming✓ Other describe: | | | | | | |
| Type of Equipment | ☐ Table Top ☐ Wall-mount ☐ Floor standing cabinet ☐ Other describe: Table Top Device's accessory | | | | | | |
| | has two versions that are 100% identical electrically and mechanically | | | | | | |
| except for the color of their exterior | or plastics. The two model color variations are standard Black and White. | | | | | | |

Report Number: SL22041907-CCP-224_6PMinus_TX_RF EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

Bureau Veritas Consumer Products Services, Inc. 775 Montague Expressway, Milpitas, CA 95035 Tel: (408) 526-1188

Table 11: Interface Specifications

| Interface Type | Cabled with what type of cable? | Is the cable shielded? | Maximum potential length of the cable? | Metallic (M), Coax (C), Fiber (F), or Not Applicable? |
|-------------------|---------------------------------|------------------------|---|--|
| USB | Terminated | ⊠ Yes | ☐ Metric:0.6 m | \boxtimes M |

Table 12: Supported Equipment

| Equipment | Manufacturer | Model | Serial | Used for |
|-----------|--------------|-------|----------|---------------|
| Laptop | Lenovo | T430 | PB-8HBRR | Set test mode |

Table 13: Description of Sample used for Testing

| Device | Serial Number | Configuration | Used For |
|--------------------|---------------|------------------|--|
| Stealth600P-USB-TX | PP #2 | Radiated Sample | Radiated Emissions, Conducted Emission. |
| Stealth600P-USB-TX | PP #1 | Conducted Sample | Output Power, Occupied Bandwidth, Conducted Spurious Emissions, Peak Power Spectral Density |
| Note: None | | | |

 Table 14: Description of Test Configuration used for Radiated Measurement.

| Device | Antenna | Mode | Setup Description | |
|---|------------|--------------------|--|--|
| Stealth600P-USB-TX | Integrated | Transmit & Receive | Stealth 600P-USB-TX positioned vertically, worst case. | |
| Note: This is the final setup configuration used for testing. | | | | |

Report Number: SL22041907-CCP-224_6PMinus_TX_RF

EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

Table 15: Final Test Mode for 2402 MHz to 2480 MHz Band

| Test | Stealth600P-USB-TX | |
|--|--|--|
| Occupied Bandwidth | 2402, 2442, 2480 MHz @ 1 and 2 Mbps | |
| Output Power | 2402, 2442, 2480 MHz @ 1 and 2 Mbps | |
| Peak Power Spectral Density | 2402, 2442, 2480 MHz @ 1 and 2 Mbps | |
| Out-of-Band (-30 dBr) | 2402, 2442, 2480 MHz @ 1 and 2 Mbps | |
| Band-Edge (Radiated) | 2402, 2480 MHz @ 2 Mbps | |
| Transmitted Spurious Emission | 2402, 2442, 2480 MHz @ 1 Mbps | |
| AC Conducted Emission | 2402 MHz @ 1 Mbps | |
| Note: EUT transmits at 95.37% duty cycle in 1 Mbps mode and 88.19% in 2 Mbps mode. | | |

Report Number: SL22041907-CCP-224_6PMinus_TX_RF

EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

Date: August 5, 2022. Rev 0

Test Specifications

6.4 Test Specifications

Table 16: Test Specifications

| Emissions and Immunity | | |
|---------------------------------|-------------|--|
| Rules & Regulations / Standards | Requirement | |
| CFR 47 Part 15.247: 2021 | All | |
| RSS 247 Issue 2, 2017 | All | |

END OF REPORT

Report Number: SL22041907-CCP-224_6PMinus_TX_RF EUT: USB Wireless Audio Transmitter. Model: Stealth600P-USB-TX

Date: August 5, 2022. Rev 0