



SAR EVALUATION REPORT

Applicant Name:
Catapult Sports Pty Ltd
10 Post Office Square, Floor 9
Boston, MA 02109

Date of Testing:
06/15/2021
Test Site/Location:
PCTEST Lab, Morgan Hill, CA, USA
Document Serial No.:
1C2105260039.2ADAL (Rev 2)

FCC ID: 2ADAL-WPT1

APPLICANT: CATAPULT SPORTS PTY LTD


DUT Type: Wireless Charger
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: WPT1

| Equipment Class | Band & Mode | Tx Frequency | SAR |
|---|--------------|-----------------|----------------|
| | | | 1g Body (W/kg) |
| 8CC | WPT | 917.5 MHz | 0.49 |
| DTS | Bluetooth LE | 2402 - 2480 MHz | N/A |
| Simultaneous SAR per KDB 690783 D01v01r03: | | | 0.51 |

Note: This revised test report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.


This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.6 of this report; for North American frequency bands only.

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. Test results reported herein relate only to the item(s) tested.


Randy Ortañez
President





The SAR Tick is an initiative of the Mobile & Wireless Forum (MWF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MWF. Further details can be obtained by emailing: sartick@mwfi.info.

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|--|---|--------------------------------------|--|
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1 DEVICE UNDER TEST

1.1 Device Overview

| Mode | Operating Modes | Tx Frequency |
|--------------|-------------------------|-----------------|
| WPT | Charging Client Devices | 917.5 MHz |
| Bluetooth LE | N/A | 2402 - 2480 MHz |

1.2 Nominal and Maximum Output Power Specifications


Per manufacturer, this device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D01v06.

1.2.1 Maximum Output Power – WPT Mode

| Mode / Frequency | Maximum Power Declared by Manufacturer | |
|------------------|--|--------------|
| | [dBm] | [W] |
| WPT (917.5 MHz) | 34.50 | 2.818 |

1.2.2 Maximum Output Power – Bluetooth LE Mode

| Mode | Maximum Modulated Peak Power Declared by Manufacturer | |
|--------------|---|--------------|
| | [dBm] | [mW] |
| Bluetooth LE | -3.18 | 0.481 |

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1.3 DUT Antenna Locations

Based on the expected use conditions, Body SAR was evaluated. The DUT has one WPT antenna and one BT antenna. A diagram showing the location of the device antenna can be found in Appendix E. More information about the configurations evaluated for SAR can be found in Section 4.2.

1.4 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D01v06 4.3.2 procedures.

Table 1-1
Simultaneous Transmission Scenarios

| No. | Capable Transmit Configuration | Body |
|-----|--------------------------------|------|
| 1 | WPT + 2.4 GHz Bluetooth LE | Yes |


1.5 Miscellaneous SAR Test Considerations

BT

Per FCC KDB 447498 D01v06, the 1g SAR exclusion threshold for distances <50mm is defined by the following equation:

$$\frac{(\text{Max Power Of Channel (mW)})}{\text{Test Separation Dist (mm)}} * \sqrt{\text{Frequency (GHz)}} \leq 3.0$$

Based on the maximum allowed conducted power of Bluetooth LE declared by the manufacturer (rounded to the nearest mW) and the antenna to user separation distance, Body Bluetooth SAR was not required; $[(0.5/5)*\sqrt{2.480}] = 0.157 < 3.0$.


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1.6 Guidance Applied

- FCC KDB Publication 680106 D01v03 (RF Exposure Wireless Charging App)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 447498 D01v06 (General SAR Guidance)

1.7 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 8.

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2 INTRODUCTION

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996 and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

2.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 2-1).

Equation 2-1
SAR Mathematical Equation

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right) = \frac{d}{dt} \left(\frac{dU}{\rho dv} \right)$$



SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

- σ = conductivity of the tissue-simulating material (S/m)
- ρ = mass density of the tissue-simulating material (kg/m³)
- E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

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3 DOSIMETRIC ASSESSMENT

3.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 3-1) and IEEE 1528-2013.
2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.
3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 3-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 3-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

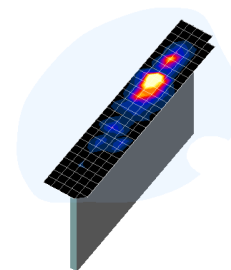



Figure 3-1
Sample SAR Area
Scan

Table 3-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

| Frequency | Maximum Area Scan Resolution (mm) ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$) | Maximum Zoom Scan Resolution (mm) ($\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$) | Maximum Zoom Scan Spatial Resolution (mm) | | | Minimum Zoom Scan Volume (mm) (x,y,z) |
|-----------|---|---|---|-----------------------------|--|--|
| | | | Uniform Grid | Graded Grid | | |
| | | | | $\Delta z_{\text{zoom}}(n)$ | $\Delta z_{\text{zoom}}(1)^*$ | |
| ≤ 2 GHz | ≤ 15 | ≤ 8 | ≤ 5 | ≤ 4 | $\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$ | ≥ 30 |
| 2-3 GHz | ≤ 12 | ≤ 5 | ≤ 5 | ≤ 4 | $\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$ | ≥ 30 |
| 3-4 GHz | ≤ 12 | ≤ 5 | ≤ 4 | ≤ 3 | $\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$ | ≥ 28 |
| 4-5 GHz | ≤ 10 | ≤ 4 | ≤ 3 | ≤ 2.5 | $\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$ | ≥ 25 |
| 5-6 GHz | ≤ 10 | ≤ 4 | ≤ 2 | ≤ 2 | $\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$ | ≥ 22 |

*Also compliant to IEEE 1528-2013 Table 6

| | | | |
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4 TEST CONFIGURATION POSITIONS AND MEASUREMENT PROCEDURES

4.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$.

4.2 SAR Testing Configurations


The DUT is not intended for handheld or body worn use. Wireless power transfer only occurs when the client device is placed on top of the surface (cradle) of the DUT. When the client device was not placed on the DUT, the DUT was placed into a continuous transmit mode via manufacturer test software. Per manufacturer, SAR was evaluated for the following test positions with a separation distance of 0 mm between the DUT (without the client device) and the flat phantom: top edge, bottom edge, left edge and right edge of the DUT. The DUT was positioned as close to the phantom as possible so that the peak spatial-average SAR can be measured. Additionally, per manufacturer, SAR was evaluated when the client device was placed on top of the surface (cradle) of the DUT for three possible positions for the client device: the surface of the client device with laces up, the surface of the client device with "W" logo up, and the surface of the client device with the air hole up. In these scenarios, SAR was evaluated with a separation of 130 mm between the top surface of the DUT and the flat phantom. Per manufacturer, additional test positions with the client device were not tested since the presence of their client device on other edges had no impact on the SAR evaluation. Per manufacturer, the phantom was filled with head tissue equivalent medium.

4.3 Procedures Used to Establish Signal for SAR

The DUT was connected to the wall adapter power supply while testing for SAR. When the client device (receiver) was not placed on the DUT, continuous WPT transmission was established via manufacturer test software. Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

4.4 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as reported SAR. The highest reported SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

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5 RF EXPOSURE LIMITS

5.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.


5.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Table 5-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

| HUMAN EXPOSURE LIMITS | | |
|---|---|---|
| | UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g) | CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g) |
| Peak Spatial Average SAR Head | 1.6 | 8.0 |
| Whole Body SAR | 0.08 | 0.4 |
| Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc. | 4.0 | 20 |

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

| | | | |
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6 RF CONDUCTED POWERS

6.1 WPT Conducted Powers

Table 6-1
WPT Average RF Power

| Frequency [MHz] | Mode | Avg Conducted Power |
|--------------------|------|---------------------------|
| | | [dBm] |
| 917.5 | WPT | 34.12 |

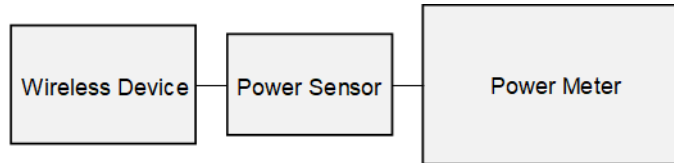



Figure 6-1
Power Measurement Setup

| | | | |
|---|---|-------------------------------|---------------------------------|
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7 SYSTEM VERIFICATION

7.1 Tissue Verification

Table 7-1
Measured Tissue Properties

| Calibrated for Tests Performed on: | Tissue Type | Tissue Temp During Calibration (°C) | Measured Frequency (MHz) | Measured Conductivity, σ (S/m) | Measured Dielectric Constant, ϵ | TARGET Conductivity, σ (S/m) | TARGET Dielectric Constant, ϵ | % dev σ | % dev ϵ |
|------------------------------------|-------------|-------------------------------------|--------------------------|---------------------------------------|--|-------------------------------------|--|----------------|------------------|
| 6/15/2021 | 850H | 22.1 | 820 | 0.931 | 40.199 | 0.899 | 41.578 | 3.56% | -3.32% |
| | | | 835 | 0.936 | 40.147 | 0.900 | 41.500 | 4.00% | -3.26% |
| | | | 850 | 0.943 | 40.102 | 0.916 | 41.500 | 2.95% | -3.37% |
| | | | 875 | 0.951 | 40.042 | 0.943 | 41.500 | 0.85% | -3.51% |
| | | | 895 | 0.957 | 39.997 | 0.965 | 41.500 | -0.83% | -3.62% |
| | | | 915 | 0.963 | 39.958 | 0.980 | 41.500 | -1.73% | -3.72% |
| | | | 920 | 0.965 | 39.952 | 0.982 | 41.491 | -1.73% | -3.71% |

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

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7.2 Test System Verification

Prior to SAR assessment, the system is verified to $\pm 10\%$ of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in Appendix D.

Table 7-2
System Verification Results

| System Verification TARGET & MEASURED | | | | | | | | | | | | |
|--|------------------------|-------------|------------|----------------|------------------|-----------------|-----------|----------|-----------------------------------|-------------------------------------|---|-----------------------------|
| SAR System # | Tissue Frequency (MHz) | Tissue Type | Date | Amb. Temp (°C) | Liquid Temp (°C) | Input Power (W) | Source SN | Probe SN | Measured SAR _{1g} (W/kg) | 1 W Target SAR _{1g} (W/kg) | 1 W Normalized SAR _{1g} (W/kg) | Deviation _{1g} (%) |
| AM2 | 850 | HEAD | 06/15/2021 | 21.5 | 21.4 | 0.200 | 1010 | 7532 | 1.850 | 9.840 | 9.250 | -6.00% |

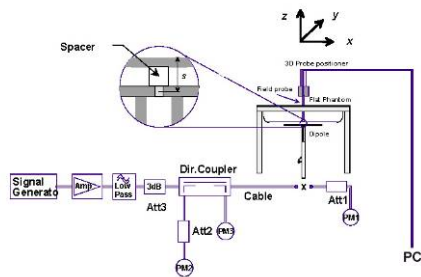



Figure 7-1
System Verification Setup Diagram



Figure 7-2
System Verification Setup Photo

| | | | |
|---|--|-------------------------------|---------------------------------|
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SAR DATA SUMMARY

8.1 Standalone Body SAR Data


Table 8-1
WPT Body SAR Data

| MEASUREMENT RESULTS | | | | | | | | | | | | | |
|---|------|-----------------------------|-----------------------|------------------|---|----------------------|----------------------|---------------------------|----------------|----------|-----------------------------|-------------------|--------|
| FREQUENCY | Mode | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing | Device Serial Number | Side | Client Device Orientation | Duty Cycle (%) | SAR (1g) | Scaling Factor (Cond Power) | Reported SAR (1g) | Plot # |
| MHz | | | | | | | | | | (W/kg) | | (W/kg) | |
| 917.5 | WPT | 34.5 | 34.12 | 0.12 | 130 mm | 0006 | Top Surface (Cradle) | Laces Up | 100 | 0.186 | 1.091 | 0.203 | |
| 917.5 | WPT | 34.5 | 34.12 | 0.08 | 130 mm | 0006 | Top Surface (Cradle) | "W" Logo Up | 100 | 0.165 | 1.091 | 0.180 | |
| 917.5 | WPT | 34.5 | 34.12 | -0.01 | 130 mm | 0006 | Top Surface (Cradle) | Air Hole Up | 100 | 0.167 | 1.091 | 0.182 | |
| 917.5 | WPT | 34.5 | 34.12 | -0.01 | 0 mm | 0006 | Left | N/A | 100 | 0.411 | 1.091 | 0.448 | |
| 917.5 | WPT | 34.5 | 34.12 | 0.17 | 0 mm | 0006 | Right | N/A | 100 | 0.394 | 1.091 | 0.430 | |
| 917.5 | WPT | 34.5 | 34.12 | 0.09 | 0 mm | 0006 | Top | N/A | 100 | 0.449 | 1.091 | 0.490 | A1 |
| 917.5 | WPT | 34.5 | 34.12 | -0.14 | 0 mm | 0006 | Bottom | N/A | 100 | 0.227 | 1.091 | 0.248 | |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population | | | | | Body 1.6 W/kg (mW/g) averaged over 1 gram | | | | | | | | |

8.2 SAR Test Notes

General Notes:

- The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 447498 D01v06.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- Per manufacturer declaration, the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units.
- SAR results were scaled to the maximum allowed power declared by manufacturer to demonstrate compliance per FCC KDB Publication 447498 D01v06
- Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were not required since measured SAR results for all frequency bands were less than 0.8 W/kg and 2.0 W/kg for 10g SAR.
- Per manufacturer, SAR was evaluated for the following test positions for the DUT (without the client device) placed into a continuous transmit mode via manufacturer test software: the top edge, the bottom edge, the left edge and the right edge of the DUT.
- Per manufacturer, SAR was also evaluated for the following test position when the client device was placed on top of the surface (cradle) of the DUT for three possible positions for the client device: the surface of the client device with laces up, the surface of the client device with "W" logo up, and the surface of the client device with the air hole up.

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9 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

9.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to devices with Bluetooth devices which may simultaneously transmit with WPT.

9.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific physical test configuration is ≤ 1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

When Standalone SAR is not required to be measured, per FCC KDB 447498 D01v06 4.3.2 b), the following equation must be used to estimate the standalone 1g SAR for simultaneous transmission assessment involving that transmitter.

$$\text{Estimated SAR} = \frac{\sqrt{f(\text{GHz})}}{7.5} * \frac{(\text{Max Power of Channel, mW})}{(\text{Min. Separation Distance, mm})}$$


Table 9-1
Estimated SAR

| Mode | Frequency | Maximum Modulated Peak Power Declared by Manufacturer | Separation Distance (Body) | Estimated SAR (Body) |
|--------------|-----------|---|----------------------------|----------------------|
| | [MHz] | [dBm] | [mm] | [W/kg] |
| Bluetooth LE | 2480 | -3.18 | 5 | 0.021 |

9.3 Body SAR Simultaneous Transmission Analysis

Table 9-2
Simultaneous Transmission Scenario with BT


| Simult Tx | Configuration | WPT SAR (W/kg) | Bluetooth LE SAR (W/kg) | Σ SAR (W/kg) |
|-----------|------------------------------------|----------------|-------------------------|---------------------|
| | | 1 | 2 | 1+2 |
| Body SAR | Top | 0.490 | 0.021 | 0.511 |
| | Bottom | 0.248 | 0.021 | 0.269 |
| | Right | 0.430 | 0.021 | 0.451 |
| | Left | 0.448 | 0.021 | 0.469 |
| | Client Device on Cradle - Laces Up | 0.203 | 0.021 | 0.224 |

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Note: Bluetooth SAR was not required to be measured per FCC KDB Publication 447498 D01v06. Estimated SAR results were used in the above table to determine simultaneous transmission SAR test exclusion.

9.4 Simultaneous Transmission Conclusion

The above numerical summed SAR results and spatial separation analysis for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528-2013 Section 6.3.4.1.2.

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10 SAR MEASUREMENT VARIABILITY

10.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was not assessed for each frequency band since all measured SAR values are <0.8 W/Kg for 1g and <2.0 W/Kg for 10g SAR.

10.2 Measurement Uncertainty


The measured SAR was <1.5 W/kg for 1g and <3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis was not required.

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11 EQUIPMENT LIST


| Manufacturer | Model | Description | Cal Date | Cal Interval | Cal Due | Serial Number |
|--------------------|---------------|-----------------------------------|------------|--------------|------------|---------------|
| Agilent | 8753ES | S-Parameter Network Analyzer | 9/16/2020 | Annual | 9/16/2021 | MY40000670 |
| Agilent | E4438C | ESG Vector Signal Generator | 12/2/2020 | Annual | 12/2/2021 | MY42081752 |
| Agilent | N5182A | MXG Vector Signal Generator | 12/1/2020 | Annual | 12/1/2021 | MY47420837 |
| Amplifier Research | 15S1G6 | Amplifier | CBT | N/A | CBT | 343972 |
| Amplifier Research | 15S1G6 | Amplifier | CBT | N/A | CBT | 343971 |
| Anritsu | MA24106A | USB Power Sensor | 9/15/2020 | Annual | 9/15/2021 | 1244515 |
| Anritsu | MA24106A | USB Power Sensor | 9/15/2020 | Annual | 9/15/2021 | 1248508 |
| Anritsu | MA2411B | Pulse Power Sensor | 12/18/2020 | Annual | 12/18/2021 | 1126066 |
| Anritsu | ML2495A | Power Meter | 11/3/2020 | Annual | 11/3/2021 | 1039008 |
| Control Company | 4040 | Therm./Clock/Humidity Monitor | 6/29/2019 | Biennial | 6/29/2021 | 192291470 |
| Control Company | 4353 | Long Stem Thermometer | 10/28/2020 | Biennial | 10/28/2022 | 200670646 |
| Control Company | 4353 | Long Stem Thermometer | 10/28/2020 | Biennial | 10/28/2022 | 200670653 |
| Insize | 1108-150 | Digital Caliper | 1/17/2020 | Biennial | 1/17/2022 | 409193536 |
| KEYSIGHT | E4438C | VECTOR SIGNAL GENERATOR | 6/22/2020 | Annual | 6/22/2021 | MY45092078 |
| MCL | BW-N10W5+ | 10dB Attenuator | CBT | N/A | CBT | 1611 |
| MCL | BW-N3W5+ | 3dB Attenuator | CBT | N/A | CBT | 1812 |
| MCL | BW-N6W5+ | 6dB Attenuator | CBT | N/A | CBT | 1311 |
| Mini-Circuits | NLP-2950+ | Low Pass Filter | CBT | N/A | CBT | N/A |
| Mini-Circuits | VLF-6000+ | Low Pass Filter | CBT | N/A | CBT | N/A |
| Mini-Circuits | ZHDC-16-63-S+ | 50-6000MHz Bidirectional Coupler | CBT | N/A | CBT | N/A |
| Pasternack | PE2208-6 | Bidirectional Coupler | CBT | N/A | CBT | N/A |
| Rohde & Schwarz | FSP-7 | Spectrum Analyzer | 1/9/2020 | Biennial | 1/9/2022 | 100990 |
| Rosenberger | 32W1006-016 | Torque Wrench | 12/1/2020 | Annual | 12/1/2021 | N/A |
| SPEAG | DAKS-3.5 | Portable DAK | 9/9/2020 | Annual | 9/9/2021 | 1045 |
| SPEAG | D850V2 | 850 MHz SAR Dipole | 9/8/2020 | Annual | 9/8/2021 | 1010 |
| SPEAG | EX3DV4 | SAR Probe | 4/19/2021 | Annual | 4/19/2022 | 7532 |
| SPEAG | DAE4 | Dasy Data Acquisition Electronics | 4/13/2021 | Annual | 4/13/2022 | 501 |

Note: CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler, or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.

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12 MEASUREMENT UNCERTAINTIES

| a | b | c | d | e= f(d,k) | f | g | h = c x f/e | i = c x g/e | k |
|---|----------------------|---------------|----------------|--------------|-----------------------|--------------------------|--------------------------------|----------------------------------|----------------|
| Uncertainty Component | IEEE 1528 Sec. | Tol. (± %) | Prob. Dist. | Div. | c _i 1gm | c _i 10 gms | 1gm u _i (± %) | 10gms u _i (± %) | v _i |
| Measurement System | | | | | | | | | |
| Probe Calibration | E2.1 | 6.55 | N | 1 | 1 | 1 | 6.6 | 6.6 | ∞ |
| Axial Isotropy | E2.2 | 0.25 | N | 1 | 0.7 | 0.7 | 0.2 | 0.2 | ∞ |
| Hemishperical Isotropy | E2.2 | 1.3 | N | 1 | 0.7 | 0.7 | 0.9 | 0.9 | ∞ |
| Boundary Effect | E2.3 | 2 | R | 1.732 | 1 | 1 | 1.2 | 1.2 | ∞ |
| Linearity | E2.4 | 0.3 | N | 1 | 1 | 1 | 0.3 | 0.3 | ∞ |
| System Detection Limits | E2.4 | 0.25 | R | 1.732 | 1 | 1 | 0.1 | 0.1 | ∞ |
| Readout Electronics | E2.6 | 0.3 | N | 1 | 1 | 1 | 0.3 | 0.3 | ∞ |
| Response Time | E2.7 | 0.8 | R | 1.732 | 1 | 1 | 0.5 | 0.5 | ∞ |
| Integration Time | E2.8 | 2.6 | R | 1.732 | 1 | 1 | 1.5 | 1.5 | ∞ |
| RF Ambient Conditions - Noise | E6.1 | 3 | R | 1.732 | 1 | 1 | 1.7 | 1.7 | ∞ |
| RF Ambient Conditions - Reflections | E6.1 | 3 | R | 1.732 | 1 | 1 | 1.7 | 1.7 | ∞ |
| Probe Positioner Mechanical Tolerance | E6.2 | 0.8 | R | 1.732 | 1 | 1 | 0.5 | 0.5 | ∞ |
| Probe Positioning w/ respect to Phantom | E6.3 | 6.7 | R | 1.732 | 1 | 1 | 3.9 | 3.9 | ∞ |
| Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation | E5 | 4 | R | 1.732 | 1 | 1 | 2.3 | 2.3 | ∞ |
| Test Sample Related | | | | | | | | | |
| Test Sample Positioning | E4.2 | 3.12 | N | 1 | 1 | 1 | 3.1 | 3.1 | 35 |
| Device Holder Uncertainty | E4.1 | 1.67 | N | 1 | 1 | 1 | 1.7 | 1.7 | 5 |
| Output Power Variation - SAR drift measurement | E2.9 | 5 | R | 1.732 | 1 | 1 | 2.9 | 2.9 | ∞ |
| SAR Scaling | E6.5 | 0 | R | 1.732 | 1 | 1 | 0.0 | 0.0 | ∞ |
| Phantom & Tissue Parameters | | | | | | | | | |
| Phantom Uncertainty (Shape & Thickness tolerances) | E3.1 | 7.6 | R | 1.73 | 1.0 | 1.0 | 4.4 | 4.4 | ∞ |
| Liquid Conductivity - measurement uncertainty | E3.3 | 4.3 | N | 1 | 0.78 | 0.71 | 3.3 | 3.0 | 76 |
| Liquid Permittivity - measurement uncertainty | E3.3 | 4.2 | N | 1 | 0.23 | 0.26 | 1.0 | 1.1 | 75 |
| Liquid Conductivity - Temperature Uncertainty | E3.4 | 3.4 | R | 1.732 | 0.78 | 0.71 | 1.5 | 1.4 | ∞ |
| Liquid Permittivity - Temperature Uncertainty | E3.4 | 0.6 | R | 1.732 | 0.23 | 0.26 | 0.1 | 0.1 | ∞ |
| Liquid Conductivity - deviation from target values | E3.2 | 5.0 | R | 1.73 | 0.64 | 0.43 | 1.8 | 1.2 | ∞ |
| Liquid Permittivity - deviation from target values | E3.2 | 5.0 | R | 1.73 | 0.60 | 0.49 | 1.7 | 1.4 | ∞ |
| Combined Standard Uncertainty (k=1) | | | | | | | RSS | 11.6 | 11.4 |
| Expanded Uncertainty (95% CONFIDENCE LEVEL) | | | | | | | k=2 | 23.2 | 22.8 |


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13 CONCLUSION

13.1 Measurement Conclusion


The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]


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