



ELEMENT MATERIALS TECHNOLOGY

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RF EXPOSURE REPORT

Applicant Name:

Apple Inc.
One Apple Park Way
Cupertino, CA 95014 USA

Date of Evaluation:

08/12/2022

Test Site/Location:

Element, Morgan Hill, CA, USA

Document Serial No.:

1C2204080016-04.BCG

FCC ID:

BCG-A2700

APPLICANT:

APPLE, INC.

DUT Type:

Wireless Earbuds Charging Case

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model:

A2700

SAR Test Exclusion

This device contains a transmitter with Bluetooth LE that may be used in close proximity to the user's body. The maximum allowed output power of the 2.4 GHz Bluetooth LE module is 2.2 mW. 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 conducted power of Bluetooth (rounded to the nearest mW) and the antenna to user separation distance, Bluetooth SAR was not required; $[(2.2 / 5) * \sqrt{2.480}] = 0.69 < 3.0$. Per KDB Publication 447498 D01v06, the maximum power of the channel was rounded to the nearest mW before calculation. Since the minimum separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion according to FCC KDB Publication 447498 D01v06.

Therefore, no SAR tests are required to determine that this device will not exceed the FCC RF Exposure limit when being used at 0 mm from the human body.

RJ Ortanez

Executive Vice 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@mwfai.info.

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