

RF exposure information

Date: 07 July 2014

Product: audio processor for cochlear implant system

Model (product code/model number): SONNET (Me1310)
SONNET EAS (Me1320)

Manufacturer: MED-EL Elektromedizinische Geräte G.m.b.H.
Fürstenweg 77a
6020 Innsbruck, AUSTRIA

The above mentioned product is a portable device as defined in section §2.1093(b) of 47 C.F.R. According to §2.1093(c)(2) of 47 C.F.R. it is categorically excluded from routine environmental evaluation for RF exposure.

Standalone SAR test exclusion considerations are defined in KDB 447498 D01 "Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies". According to chapter 4.3.1 the 1-g SAR exclusion threshold for the frequency range 100 MHz to 6 GHz is defined with the following formula:

$$\frac{\text{max. power of channel, including tune - up tolerance (mW)}}{\text{min. test separation distance (mm)}} * \sqrt{f(\text{GHz})} \leq 3.0$$

The maximum transmitted power of the above mentioned product is 0.177 mW (EIRP) (rounding to the nearest mW value results in a value of 1 mW), the minimum separation distance is less than 5 mm (therefore a value of 5 mm shall be applied), and the highest frequency used is 2.48 GHz. Using these values with the above formula results

$$\frac{1 \text{ mW}}{5 \text{ mm}} * \sqrt{2.48 \text{ GHz}} = 0.3 \leq 3.0$$

Thus the SAR exclusion condition is fulfilled and SAR evaluation is not required. The above mentioned product is considered compliant with the rules for RF exposure without further test or analysis.

B. Stöbich, 07.07.2014

(Bernhard Stöbich, Team Leader Electronic Design, R&D)

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