

July 25, 2018

RF Exposure Analysis

FCC ID: BDZ324PHB

Analysis for FCC portable use

Standalone SAR test exclusion considerations are defined in KDB 447498D01 (v06) Chapter 4.3.1 where the 1-g head or body and 10-g extremity SAR exclusion threshold is defined by the following formula:

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] * \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

For the 324 Personal Help Button, the maximum conducted output power is +5.0 dBm (3.16mW).

Applying the above data using the given KDB 447498 D01 formula, and minimum separation distance of 5mm, the following results:

$$(3.16\text{mW} / 5 \text{ mm}) \times \sqrt{0.312 \text{ GHz}} = 0.35 \text{ (i.e.: } \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR)}$$

This demonstrates the 324 Personal Help Button meets the criteria for 1-g head/ body and 10-g extremity SAR test exemption.

Conclusion

The 324 Personal Help Button can be used for Portable (or Mobile) usage.

Signature: _____ Date: 07/25/2018

Clyde Dottin

Manager, Configuration and Data Management
Philips Healthcare, Home Healthcare Solutions, Home Monitoring
111 Lawrence Street
Framingham, MA 01702-8156
Phone: 508.988.1313
Fax: 240.536.3263
clyde.dottin@philips.com