RF Exposure evaluation

Product: Heavy Duty radio with AM/FM/USB/Bluetooth

Model Number: JHD40BTBRP FCC ID: OPDJHD40BTBRP

According to 447498 D01 General RF Exposure Guidance v05 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [\(\sqrt{f(GHz)} \)] \(\leq 3.0 \) for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

 $\ensuremath{\text{f(GHz)}}$ 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

Worse case is as below: [2402MHz 4.887dBm(3.081mW) output power]

 $(3.081 \text{mW} / 5 \text{mm}) \cdot [\sqrt{2.402} (\text{GHz})] = 0.95511 < 3.0 \text{ for } 1-\text{g SAR}$

Then SAR evaluation is not required