RF Exposure evaluation

According to KDB 447498 D01 General RF Exposure Guidance v05 The 1-q and 10-q SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leqslant 50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [\sqrt{f} (GHz)] ≤ 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where • 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: For right antenna, The minimum distance from antenna to human body (hand) is 35mm. $(38.11 \text{ mW} / 35 \text{ mm}) \cdot [\sqrt{2.475} \text{ (GHz)}] = 1.71 < 3.0 \text{ for } 1-\text{g SAR}$ For left antenna, The minimum distance from antenna to human body (hand) is 90mm. $(38.19 \text{ mW} / 90 \text{ mm}) \cdot [\sqrt{2.475} \text{ (GHz)}] = 0.68 < 3.0 \text{ for } 1-\text{g SAR}$

Then SAR evaluation is not required







