RF Exposure evaluation

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)] • [$\sqrt{f(\text{GHz})}$] \leq 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
- $\boldsymbol{\cdot}$ 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: [2474 MHz 14.97dBm (31.405mW) output power]



Shortest distance between antenna and switch is 22cm

 $(31.405 \text{mW} / 22 \text{mm}) \cdot [\sqrt{2.474} (\text{GHz})] = 2.245 < 7.5 \text{ for } 10-\text{g SAR}$

Then SAR evaluation is not required