

## RF Exposure Compliance Requirement

The product belongs to **standalone portable device** base the FCC rule part 2.1091&2.1093. The transmission frequencies of the device are between 100 MHz and 6 GHz. The worst case test separation distance is **5mm**.

The SAR Test Exclusion Threshold for 100 MHz to 6 GHz is calculated from:

1) 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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

☐  $f(\text{GHz})$  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

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation *distance is*  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

The Max Conducted Output Power and SAR Test Exclusion Threshold (mW) are listed below:

| Transmit frequency (GHz) | Max Conducted Output Power (dBm) | Max Conducted Output Power (mW) | SAR Test Exclusion Threshold (mW) |
|--------------------------|----------------------------------|---------------------------------|-----------------------------------|
| 2.402                    | -1.40                            | 0.72                            | 9.68                              |
| 2.441                    | 0.60                             | 1.15                            | 9.62                              |
| 2.480                    | 1.75                             | 1.50                            | 9.52                              |

$\text{SAR Test Exclusion Threshold (mW)} = 3.0 \times (\text{min. test separation distance, 5mm}) / [\sqrt{f(\text{GHz})}]$

According to SAR Exclusion Threshold in KDB 447498 (D01) General RF Exposure Guidance v06, the SAR report is not required.