



## Standalone SAR test exclusion considerations

April 2, 2024

- Device category =  Portable device  Mobile device
- Transmitting mode =  Single Transmitting  Simultaneous Transmitting
- Max. transmitting frequency = 433.92 MHz
- Min. test separation distance = 0 mm
- Max. Antenna Gain = -4.09 dBi
- Max. power with turn-up tolerance = 1.00 dBm = 1.3 mW ( Typical Power = Max. 1.00 dBm )

Note. The max power includes a correction factor of  $10\log(0.24)$  to cover an operational duty factor of 24% as the device transmit a maximum of 24.42ms in period 100 msec.

### KDB 447498 D01 clause 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances $\leq 50$ mm

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

$$= [ ( 1.3\text{mW} / 5\text{mm} ) ] \times [ \sqrt{0.43392\text{GHz}} ] = 0.2$$

Note. The calculation result was rounded to one decimal place for comparison.

**→ SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required.**