

9 Radio Frequency Human Exposure Evaluation:

9.1 SAR Test Exclusion

Based on the conducted power measurement, reported under section " Maximum conducted power " of respective test report and derivation of Low-Power exclusion level defined in FCC KDB 447498 D01 General RF Exposure Guidance v06 (See 4.3 a), SAR test exclusion was identified for the followong frequency band

Protocol	Frequency band (MHz)	Maximum measured RF output power at antenna terminal (dBm)	Tune-up tolerance	Max power Including tune-up tolerance * (mW)	Exclusion threshold ** for separation distance of 50mm (W)	SAR Test required (Yes/No)
Sub GHz	915	11.08	±1	16.1436	0.3088	No

*Max power is rounded to two decimal place for reporting

**separation distance of 50mm is used for the calculation

Note: Manufacturer declared TuneUp tollarance of ±1dB is considered in the calculation

Hence RF exposure evaluation or SAR testing is not required for Sub-GHz frequency range

- Per KDB 447498 D01v06, the 1-g and 10-g SAR Test Exclusion threshold for 100MHz to 6GHz at separation distance ≤50mm 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 ≤ 7.5 for 10-g extremity SAR

Where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz