

RF exposure evaluation

M16

The RF exposure evaluation was calculated as below:

- 1) For BT3.0+EDR: The maximum output power for antenna is 4.25dBm (2.66mW) at 2441MHz.
For BT4.0: The maximum output power for antenna is 2.61dBm (1.82mW) at 2480MHz.
- 2) For Bluetooth device or fixed location transmitters, no SAR consideration applied.
- 3) Per KDB 447498 D01v05r02, the 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 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, 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
- When the minimum test separation distance is < 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.

For BT3.0+EDR:

- The result is rounded to one decimal place for comparison

Channel	Frequency (GHz)	Power (dBm)	Max. Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
CH 39	2.441	4.25	2.66	5	0.831	3.0

For BT4.0:

- The result is rounded to one decimal place for comparison

Channel	Frequency (GHz)	Power (dBm)	Max. Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
CH 78	2.48	2.61	1.82	5	0.573	3.0

- Base on the calculation value, so SAR test is exclusion.
- The public is not exposed to radio frequency energy level in excess of the Commission's guideline.