

RF Exposure Evaluation

REQUIREMENT

For extremity

KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a)

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 7.5$$

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 test exclusions are applicable only when the minimum test separation distance is ≤ 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 according to 4.1 f) is applied to determine SAR test exclusion.

For head

KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(b)

$$\{[\text{Power allowed at numeric threshold for 50 mm in step a}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\} \text{ mW, for } > 1500 \text{ MHz and } \leq 6 \text{ GHz}$$

TEST RESULT

Passed

Not Applicable

Type	Maximum Tune-up (dBm) Conducted Average Power	
BLE	-4.00~5.00	

For extremity

Type	Conducted Average Power (dBm)	Maximum Tune-up (dBm)	safety distance (mm)	Calculating data	Limit	Result
BLE	-4.78	-4.00	0	0.123	7.5	Pass

For head

Type	Conducted Average Power (dBm)	Maximum Tune-up (dBm)	safety distance (mm)	Calculating data (mW)	Limit (mW)	Result
BLE	-4.78	-4.00	60	0.398	196	Pass

Note:

- 1) The maximum antenna gain is 0dBi