

SAR test exclusion evaluation compliance requirement

Model no.: BS1120BT

1. KDB 447498 D01 v06 requirement

Standalone SAR test exclusion considerations:

The transmission frequencies of the device are between 100 MHz and 6 GHz. The worst case test separation distance is **5mm**. The Max Conducted Output Power and SAR Test Exclusion Threshold (mW) are listed below:

BLE:

Transmit frequency (GHz)	Max Conducted Output Power (mW)	SAR Test Exclusion Threshold (mW)
2.402-2.480	1.14	9.5

The SAR Test Exclusion Threshold is calculated from:

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

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

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

Test Location:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

All tests were performed at:

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China