

# FCC ID: 2AAXO-SML682BT

## Portable device

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

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

The result is rounded to one decimal place for comparison;

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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 is applied to determine SAR test exclusion.

We use 5mm as separation distance to calculate.

Maximum measured transmitter power:

BT DSS:

| Transmit Frequency (GHz) | Mode           | Max Conducted Power (dBm) | tune up maximum power | Result calculation | 1-g SAR |
|--------------------------|----------------|---------------------------|-----------------------|--------------------|---------|
| 2.402                    | GFSK           | -1.036                    | $-1 \pm 1\text{dBm}$  | 0.3100             | 3.0     |
| 2.441                    | GFSK           | -0.038                    | $-1 \pm 1\text{dBm}$  | 0.3125             | 3.0     |
| 2.480                    | GFSK           | -0.358                    | $-1 \pm 1\text{dBm}$  | 0.3150             | 3.0     |
| 2.402                    | $\pi/4$ -DQPSK | -3.429                    | $-3 \pm 1\text{dBm}$  | 0.1956             | 3.0     |
| 2.441                    | $\pi/4$ -DQPSK | -2.031                    | $-2 \pm 1\text{dBm}$  | 0.2482             | 3.0     |
| 2.480                    | $\pi/4$ -DQPSK | -2.508                    | $-2 \pm 1\text{dBm}$  | 0.2502             | 3.0     |

Conclusion:

For the max result :  $0.3150 \leq 3.0$  for 1-g SAR extremity SAR, No SAR is required.

Signature:



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