

# FCC ID: 2ACGF-GH210001

## 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.

We used a distance 5mm to calculated

Maximum measured transmitter power:

BT DSS:

Transmit Frequency (GHz)	Mode	Measured power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Result calculation	1-g SAR
2.402	GFSK	5.348	5.0±1	6.0	1.2340	3.0
2.441	GFSK	5.815	5.0±1	6.0	1.2440	3.0
2.480	GFSK	4.623	5.0±1	6.0	1.2539	3.0
2.402	1/4Π-DQPSK	3.847	4.0±1	5.0	0.9802	3.0
2.441	1/4Π-DQPSK	4.224	4.0±1	5.0	0.9881	3.0
2.480	1/4Π-DQPSK	3.017	4.0±1	5.0	0.9960	3.0
2.402	8DPSK	4.151	4.0±1	5.0	0.9802	3.0
2.441	8DPSK	4.515	4.0±1	5.0	0.9881	3.0
2.480	8DPSK	3.288	4.0±1	5.0	0.9960	3.0

BT DTS:

Transmit Frequency (GHz)	Mode	Measured power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Result calculation	1-g SAR
2.402	GFSK	4.675	5.0±1	6.0	1.2340	3.0
2.440	GFSK	5.220	5.0±1	6.0	1.2437	3.0
2.480	GFSK	3.971	4.0±1	5.0	0.9960	3.0

### **Conclusion:**

For the max result :  $1.2539 < 3.0$  for 1-g SAR extremity SAR, No SAR is required.

EMTEK (SHENZHEN) CO., LTD.



Lisa Wang/EMC Manager