

# FCC ID: 2AKU5D384M

## 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(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 DTS:

Transmit Frequency (GHz)	Mode	peak conducted output power (dBm)	tune up maximum power	Result calculation	1-g SAR
2.402	GFSK	1.839	3	0.62	3.0
2.440	GFSK	1.121	3	0.62	3.0
2.480	GFSK	2.356	3	0.63	3.0

BT DSS:

Transmit Frequency (GHz)	Mode	peak conducted output power (dBm)	tune up maximum power	Result calculation	1-g SAR
2.402	GFSK	1.791	3	0.62	3.0
2.441	GFSK	2.667	3	0.62	3.0
2.480	GFSK	2.841	3	0.63	3.0
2.402	pi/4-DQPSK	1.580	3	0.62	3.0
2.441	pi/4-DQPSK	2.445	3	0.62	3.0
2.480	pi/4-DQPSK	2.613	3	0.63	3.0
2.402	8DPSK	1.694	3	0.62	3.0
2.441	8DPSK	2.592	3	0.62	3.0
2.480	8DPSK	2.754	3	0.63	3.0

WIFI:

Transmit Frequency (GHz)	Mode	peak conducted output power (dBm)	tune up maximum power	Result calculation	1-g SAR
2412	802.11b	9.65	9.75	2.93	3.0
2437	802.11b	<b>9.72</b>	9.75	2.95	3.0
2462	802.11b	9.55	9.75	2.97	3.0
2412	802.11g	8.68	9	2.46	3.0
2437	802.11g	8.94	9	2.48	3.0
2462	802.11g	8.87	9	2.50	3.0
2412	802.11n(HT20)	8.75	9	2.46	3.0
2437	802.11n(HT20)	8.69	9	2.48	3.0
2462	802.11n(HT20)	8.94	9	2.50	3.0
2412	802.11n(HT40)	8.19	9	2.46	3.0
2437	802.11n(HT40)	8.26	9	2.48	3.0
2462	802.11n(HT40)	8.01	9	2.50	3.0

Conclusion:

For the max result :  $2.97 \leq 3.0$  for 1-g SAR extremity SAR, No SAR is required.

Signature: 

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