

FCC ID: 2ANQ6-MZTW50

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 SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

BR+EDR:

Antenna Type : FPCB Antenna

Antenna Gain: 0.03 dBi

For Left:

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculatio n	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	5.15	3.273	5±1	6	3.981	<5	1.23400	3.00	YES
	2.441	5.38	3.451	5±1	6	3.981	<5	1.24398	3.00	YES
	2.480	4.80	3.020	5±1	6	3.981	<5	1.25388	3.00	YES
$\pi/4$ -DQPSK	2.402	5.16	3.281	5±1	6	3.981	<5	1.23400	3.00	YES
	2.441	5.39	3.459	5±1	6	3.981	<5	1.24398	3.00	YES
	2.480	4.82	3.034	5±1	6	3.981	<5	1.25388	3.00	YES
8DPSK	2.402	5.16	3.281	5±1	6	3.981	<5	1.23400	3.00	YES
	2.441	5.31	3.396	5±1	6	3.981	<5	1.24398	3.00	YES
	2.480	4.82	3.034	5±1	6	3.981	<5	1.25388	3.00	YES

For Right:

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculatio n	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	5.83	3.828	5±1	6	3.981	<5	1.23400	3.00	YES
	2.441	5.66	3.681	5±1	6	3.981	<5	1.24398	3.00	YES
	2.480	4.15	2.600	5±1	6	3.981	<5	1.25388	3.00	YES
$\pi/4$ -DQPSK	2.402	5.82	3.819	5±1	6	3.981	<5	1.23400	3.00	YES
	2.441	5.63	3.656	5±1	6	3.981	<5	1.24398	3.00	YES
	2.480	4.14	2.594	5±1	6	3.981	<5	1.25388	3.00	YES
8DPSK	2.402	5.80	3.802	5±1	6	3.981	<5	1.23400	3.00	YES
	2.441	5.64	3.664	5±1	6	3.981	<5	1.24398	3.00	YES
	2.480	4.15	2.600	5±1	6	3.981	<5	1.25388	3.00	YES

Conclusion:

For the max result : $1.25388 \leq 3.0$ for 1-g SAR, No SAR is required.

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Signature:

Date: 2018-04-11

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