

15. RF EXPOSURE

15.1 Standard Applicable:

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

This is a Portable device with its physical nature to be used nearby, the distance between radiating structure and human is less than 20cm.

As per KDB 447498 D01 §4.3.1.1, The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm, and ≤ 5 m (not to exceed) are determined by:

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 for 1-g SAR and ≤ 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 operational distance is 25mm with the verification of internal photo.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Bluetooth:

BR mode (GFSK):

Frequency (MHz)	Output Power (dBm)	Duty Cycle	Output Power (mW)
2402.00	1.70	0.78	1.15370
2441.00	0.98	0.78	0.97745
2480.00	0.80	0.78	0.93777

EDR mode ($\pi/4$ DQPSK):

Frequency (MHz)	Output Power (dBm)	Duty Cycle	Output Power (mW)
2402.00	1.68	0.78	1.14840
2441.00	1.00	0.78	0.98196
2480.00	0.82	0.78	0.94209

EDR mode (8DPSK):

Frequency (MHz)	Output Power (dBm)	Duty Cycle	Output Power (mW)
2402.00	1.80	0.78	1.18058
2441.00	1.12	0.78	1.00947
2480.00	0.91	0.78	0.96182

Step 1: (≤ 5 mm)

This is a portable device and the Max peak output power is (1.18mW) lower than the threshold given and derived as formula given above, where

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Bluetooth:

Mode	Frequency	Power (dBm)	Power (mw)	Distance (mm)	Threshold (<10mm)
GFSK	2402	1.70	1.479108388	25	0.091695177
π /4DQPSK	2402	1.68	1.472312502	25	0.091273876
8DPSK	2402	1.80	1.513561248	25	0.093831032

Conclusion:

As the result of calculation result indicates, the RF exposure generating from given transmitter (transmitter employed digital modulation) can be excluded from SAR measurement, (<0.3), and therefore is deemed compliant with RF exposure as per KDB 447498 D01, FCC.

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