

FCC ID: 2A08ZWS-S8

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(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 : LDS Antenna

Antenna Gain: 0.8 dBi

| 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 calculation | 1g SAR Exclusion threshold | SAR test exclusion |
|------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|----------------------------|--------------------|
| GFSK | 2.402 | 6.06 | 4.036 | 6±1 | 7 | 5.012 | <5 | 1.55352 | 3.00 | YES |
| | 2.441 | 5.89 | 3.882 | 6±1 | 7 | 5.012 | <5 | 1.56608 | 3.00 | YES |
| | 2.480 | 6.22 | 4.188 | 6±1 | 7 | 5.012 | <5 | 1.57854 | 3.00 | YES |
| π/4-DQPSK | 2.402 | 6.04 | 4.018 | 6±1 | 7 | 5.012 | <5 | 1.55352 | 3.00 | YES |
| | 2.441 | 5.90 | 3.890 | 6±1 | 7 | 5.012 | <5 | 1.56608 | 3.00 | YES |
| | 2.480 | 6.20 | 4.169 | 6±1 | 7 | 5.012 | <5 | 1.57854 | 3.00 | YES |
| 8DPSK | 2.402 | 6.06 | 4.036 | 6±1 | 7 | 5.012 | <5 | 1.55352 | 3.00 | YES |
| | 2.441 | 5.90 | 3.890 | 6±1 | 7 | 5.012 | <5 | 1.56608 | 3.00 | YES |
| | 2.480 | 6.04 | 4.018 | 6±1 | 7 | 5.012 | <5 | 1.57854 | 3.00 | YES |

BLE:

Antenna Type : LDS Antenna

Antenna Gain: 0.8dBi

| 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 calculation | 1g SAR Exclusion threshold | SAR test exclusion |
|------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|----------------------------|--------------------|
| GFSK | 2.402 | 4.85 | 3.055 | 4±1 | 5 | 3.162 | <5 | 0.98020 | 3.00 | YES |
| | 2.44 | 4.78 | 3.006 | 4±1 | 5 | 3.162 | <5 | 0.98793 | 3.00 | YES |
| | 2.480 | 4.41 | 2.761 | 4±1 | 5 | 3.162 | <5 | 0.99599 | 3.00 | YES |

Conclusion:

For the max result : 1.57854 ≤ 3.0 for 1-g SAR, No SAR is required.

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Signature:

Date: 2018-10-26

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