

**FCC ID: 2A9J2AI6010****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  $\leq 50$  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  $\leq 7.5$  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

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

**EDR:**

| 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 | SAR Exclusion threshold | SAR test exclusion |
|---------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| GFSK          | 2.402               | -7.191                 | 0.19                  | -7±1                | -6.00                   | 0.25                   | <5            | 0.07786            | 3.00                    | YES                |
|               | 2.441               | -5.511                 | 0.28                  | -5±1                | -4.00                   | 0.40                   | <5            | 0.12440            | 3.00                    | YES                |
|               | 2.480               | -4.889                 | 0.32                  | -4±1                | -3.00                   | 0.50                   | <5            | 0.15785            | 3.00                    | YES                |
| $\pi$ /4DQPSK | 2.402               | -6.449                 | 0.23                  | -6±1                | -5.00                   | 0.32                   | <5            | 0.09802            | 3.00                    | YES                |
|               | 2.441               | -4.653                 | 0.34                  | -4±1                | -3.00                   | 0.50                   | <5            | 0.15661            | 3.00                    | YES                |
|               | 2.480               | -4.057                 | 0.39                  | -4±1                | -3.00                   | 0.50                   | <5            | 0.15785            | 3.00                    | YES                |
| 8DQPSK        | 2.402               | -5.92                  | 0.26                  | -5±1                | -4.00                   | 0.40                   | <5            | 0.12340            | 3.00                    | YES                |
|               | 2.441               | -4.249                 | 0.38                  | -4±1                | -3.00                   | 0.50                   | <5            | 0.15661            | 3.00                    | YES                |
|               | 2.480               | -3.651                 | 0.43                  | -3±1                | -2.00                   | 0.63                   | <5            | 0.19873            | 3.00                    | YES                |

**BLE:1M**

| 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 | SAR Exclusion threshold | SAR test exclusion |
|------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| GFSK       | 2.402               | -8.039                 | 0.16                  | -8±1                | -7.00                   | 0.20                   | <5            | 0.06185            | 3.00                    | YES                |
|            | 2.44                | -6.102                 | 0.25                  | -6±1                | -5.00                   | 0.32                   | <5            | 0.09879            | 3.00                    | YES                |
|            | 2.480               | -5.136                 | 0.31                  | -5±1                | -4.00                   | 0.40                   | <5            | 0.12539            | 3.00                    | YES                |

**2M**

| 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 | SAR Exclusion threshold | SAR test exclusion |
|------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| GFSK       | 2.402               | -7.998                 | 0.16                  | -7±1                | -6.00                   | 0.25                   | <5            | 0.07786            | 3.00                    | YES                |
|            | 2.44                | -6.051                 | 0.25                  | -6±1                | -5.00                   | 0.32                   | <5            | 0.09879            | 3.00                    | YES                |
|            | 2.480               | -5.09                  | 0.31                  | -5±1                | -4.00                   | 0.40                   | <5            | 0.12539            | 3.00                    | YES                |

**Conclusion:**

For the max result :  $0.19873 \leq$  FCC Limit 3.0 for 1g SAR.