

# MPE Calculation

Model Name : **B602 R**

Device Category : **Portable device**

FCC ID : **Y6MNCOM23**

Separation distance : **30.63 mm**

**KDB 447498 - 4.3.1 a)**

For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:  
 $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR, where

- f(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

| Modulation    | Frequency (MHz) | Min. Test separation distance (mm) | Measured Maximum Average power (dBm) | Tune-up tolerance (dB) | Max. Power with tune-up tolerance |       | Standalone SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance $\leq 50$ mm | Limit | Result |
|---------------|-----------------|------------------------------------|--------------------------------------|------------------------|-----------------------------------|-------|--|-------|--------|
|               |                 |                                    |                                      |                        | (dBm)                             | (mW)  |  |       |        |
| GFSK          | 2402            | 30.63                              | 14.52                                | $\pm 0.50$             | 15.02                             | 31.77 | 1.6075   | 3.00  | PASS   |
|               | 2441            |                                    | 14.49                                |                        | 14.99                             | 31.55 | 1.6093   | 3.00  | PASS   |
|               | 2480            |                                    | 14.58                                |                        | 15.08                             | 32.21 | 1.6561   | 3.00  | PASS   |
| $\pi/4$ DQPSK | 2402            | 30.63                              | 4.54                                 | $\pm 0.50$             | 5.04                              | 3.19  | 0.1615   | 3.00  | PASS   |
|               | 2441            |                                    | 4.78                                 |                        | 5.28                              | 3.37  | 0.1720   | 3.00  | PASS   |
|               | 2480            |                                    | 5.45                                 |                        | 5.95                              | 3.94  | 0.2023   | 3.00  | PASS   |
| 8DPSK         | 2402            | 30.63                              | 5.36                                 | $\pm 0.50$             | 5.86                              | 3.85  | 0.1950   | 3.00  | PASS   |
|               | 2441            |                                    | 5.53                                 |                        | 6.03                              | 4.01  | 0.2045   | 3.00  | PASS   |
|               | 2480            |                                    | 6.29                                 |                        | 6.79                              | 4.78  | 0.2455   | 3.00  | PASS   |
| BT LE         | 2402            | 30.63                              | 2.54                                 | $\pm 0.50$             | 3.04                              | 2.01  | 0.1019   | 3.00  | PASS   |
|               | 2442            |                                    | 2.55                                 |                        | 3.05                              | 2.02  | 0.1030   | 3.00  | PASS   |
|               | 2480            |                                    | 3.30                                 |                        | 3.80                              | 2.40  | 0.1233   | 3.00  | PASS   |