

FCC PART 15C TEST REPORT FOR CERTIFICATION  
On Behalf of

KYE Systems Corp

Bluetooth Speaker

Model Number: SP-920BT

FCC ID: FSUGG000W

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## 1. EXPOSURE EVALUATION OF PORTABLE OR MOBILE DEVICES

Human exposure to RF emissions from portable devices (47 CFR §2.1093), as defined by the FCC, must be evaluated with respect to the FCC-adopted limits for SAR. Evaluation of mobile devices, as defined by the FCC, may also be performed with respect to SAR limits, but in such cases it is usually simpler and more cost-effective to evaluate compliance with respect to field strength or power density limits. For certain devices that are designed to be used in both mobile and portable configurations similar to those described in 47 CFR §2.1091(d)(4), such as certain desktop phones and wireless modem modules, compliance for mobile configurations is also satisfied when the same device is evaluated for SAR compliance in portable configurations.

## 2. SAR TEST EXCLUSION THRESHOLD FOR 100MHz to 6GHz and $\leq 50$ mm

| MHz  | 5  | 10 | 15  | 20  | 25  | mm                                      |
|------|----|----|-----|-----|-----|-----------------------------------------|
| 150  | 39 | 77 | 116 | 155 | 194 | SAR Test<br>Exclusion<br>Threshold (mW) |
| 300  | 27 | 55 | 82  | 110 | 137 |                                         |
| 450  | 22 | 45 | 67  | 89  | 112 |                                         |
| 835  | 16 | 33 | 49  | 66  | 82  |                                         |
| 900  | 16 | 32 | 47  | 63  | 79  |                                         |
| 1500 | 12 | 24 | 37  | 49  | 61  |                                         |
| 1900 | 11 | 22 | 33  | 44  | 54  |                                         |
| 2450 | 10 | 19 | 29  | 38  | 48  |                                         |
| 3600 | 8  | 16 | 24  | 32  | 40  |                                         |
| 5200 | 7  | 13 | 20  | 26  | 33  |                                         |
| 5400 | 6  | 13 | 19  | 26  | 32  |                                         |
| 5800 | 6  | 12 | 19  | 25  | 31  |                                         |

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by

$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

•  $f(\text{GHz})$  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

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

**3. EVALUATION RESULTS**

Maximum measured transmitter power.

| Mode   | CH   | Peak output Power<br>(dBm) | Peak output Power<br>(mW) | Target power<br>(dBm) | Results |
|--------|------|----------------------------|---------------------------|-----------------------|---------|
| GFSK   | 2402 | -3.523                     | 0.444                     | $-3 \pm 1$            | 0.20    |
|        | 2441 | -0.337                     | 0.925                     | $0 \pm 1$             | 0.39    |
|        | 2480 | -1.409                     | 0.723                     | $-1 \pm 1$            | 0.32    |
| 8-DPSK | 2402 | -3.438                     | 0.453                     | $-3 \pm 1$            | 0.20    |
|        | 2441 | -0.154                     | 0.965                     | $0 \pm 1$             | 0.39    |
|        | 2480 | -1.204                     | 0.758                     | $-1 \pm 1$            | 0.32    |

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] < 3.0$

SAR Test Exclusion Thresholds is 3.0 for separation distance 5mm. Therefore, SAR test is not required.

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