

# RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	BMD-341	
Model Name	BMD-341	
FCC ID	XPYBMD341	

#### 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  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

### 3. CALCULATION

GFSK-1M

Pt=6.622dBm=4.59mW

The value of the Maximum output power P<sub>t</sub> is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR=(4.59mW /5mm) .[ $\sqrt{2.402}$ (GHz)]= 1.42<3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

GFSK-2M

Pt=6.750dBm=4.73mW

The value of the Maximum output power P<sub>t</sub> is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR=(4.73mW / 5mm) .[ $\sqrt{2.402(\text{GHz})}$ ]= 1.47<3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

O-QPSK

Pt=6.743dBm=4.72Mw

The value of the Maximum output power P<sub>t</sub> is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR=(4.72mW / 5mm) .[ $\sqrt{2.402}(\text{GHz})$ ]= 1.46<3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

## 4. CONCLUSION

The SAR evaluation is not required.



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