

# MPE Calculation

Model Name : **SP106**

FCC ID : **S7A-SP106**

Device Category : **Portable device**

Separation distance : **5.0 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

- $f(\text{GHz})$  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

Modulation	Frequency (MHz)	Min. Test separation distance (mm)	Measured Maximum Average power (dBm)	Tune-up tolerance (dB)	Max. Power with tune-up tolerance (dBm) (mW)		Standalone SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance $\leq$ 50 mm	Limit	Result
					(dBm)	(mW)			
BT LE	2402	5.00	3.09	$\pm 1.00$	4.09	2.56	0.7949	3.00	PASS
	2442		3.14		4.14	2.59	0.8108	3.00	PASS
	2480		2.98		3.98	2.50	0.7875	3.00	PASS