

MPE Calculation

Model Name : **IA70001-SCT01**

FCC ID : **2AXISIA70001-SCT01**

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 ≤ 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 ≤ 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	Measured Maximum Average power	Tune-up tolerance	Max. Power with tune-up tolerance		Standalone SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance ≤ 50 mm	Limit	Result
		(mm)	(dBm)	(dB)	(dBm)	(mW)			
Bluetooth LE 1M PHY	2402	5.00	6.59	± 1.00	7.59	5.74	1.7796	3.00	PASS
	2442		6.29		7.29	5.36	1.6746	3.00	PASS
	2480		6.24		7.24	5.30	1.6682	3.00	PASS
Bluetooth LE 2M PHY	2404	5.00	6.67	± 1.00	7.67	5.85	1.8134	3.00	PASS
	2442		6.33		7.33	5.41	1.6901	3.00	PASS
	2478		6.27		7.27	5.33	1.6791	3.00	PASS
Bluetooth LE Coded S=8	2402	5.00	6.46	± 1.00	7.46	5.57	1.7271	3.00	PASS
	2442		6.13		7.13	5.16	1.6140	3.00	PASS
	2480		6.12		7.12	5.15	1.6228	3.00	PASS
Bluetooth LE Coded S=2	2402	5.00	6.38	± 1.00	7.38	5.47	1.6956	3.00	PASS
	2442		6.01		7.01	5.02	1.5700	3.00	PASS
	2480		5.95		6.95	4.95	1.5605	3.00	PASS