

MPE Calculation

Model Name : **B802 SK**

Device Category : **Portable device**

FCC ID : **2A23KNCOM23**

Separation distance : **37.58 mm**

KDB 447498 - 3.4.1 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)			
GFSK	2402	37.58	16.14	± 0.50	16.64	46.13	1.9025	3.00	PASS
	2441		17.43		17.93	62.09	2.5812	3.00	PASS
	2480		16.92		17.42	55.21	2.3135	3.00	PASS
$\pi/4$ DQPSK	2402	37.58	9.46	± 0.50	9.96	9.91	0.4086	3.00	PASS
	2441		11.46		11.96	15.70	0.6529	3.00	PASS
	2480		10.66		11.16	13.06	0.5474	3.00	PASS
8DPSK	2402	37.58	10.06	± 0.50	10.56	11.38	0.4692	3.00	PASS
	2441		12.13		12.63	18.32	0.7618	3.00	PASS
	2480		11.38		11.88	15.42	0.6461	3.00	PASS
BT LE	2402	37.58	3.89	± 0.50	4.39	2.75	0.1133	3.00	PASS
	2442		6.91		7.41	5.51	0.2290	3.00	PASS
	2480		6.44		6.94	4.94	0.2071	3.00	PASS