

MPE Calculation

Model Name : **IW05**

FCC ID : **S7A-IW05**

Device Category : **Portable device**

Separation distance : **30.0 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(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	30.00	10.48	± 1.00	11.48	14.06	0.7264	3.00	PASS
	2441		11.22		12.22	16.67	0.8683	3.00	PASS
	2480		11.91		12.91	19.54	1.0259	3.00	PASS
$\pi/4$ DQPSK	2402	30.00	5.66	± 1.00	6.66	4.63	0.2394	3.00	PASS
	2441		5.78		6.78	4.76	0.2481	3.00	PASS
	2480		5.86		6.86	4.85	0.2547	3.00	PASS
8DPSK	2402	30.00	5.69	± 1.00	6.69	4.67	0.2411	3.00	PASS
	2441		5.82		6.82	4.81	0.2504	3.00	PASS
	2480		5.92		6.92	4.92	0.2583	3.00	PASS