

MPE Calculation

Model Name : **SP133**

FCC ID : **S7A-SP133**

Device Category : **Portable device**

Separation distance : **34.5 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:
[(max. power of channel, including tune-up tolerance, mW) / (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	34.50	5.82	± 0.50	6.32	4.29	0.1925	3.00	PASS
	2441		5.17		5.67	3.69	0.1671	3.00	PASS
	2480		5.67		6.17	4.14	0.1890	3.00	PASS
$\pi/4$ DQPSK	2402	34.50	4.38	± 0.50	4.88	3.08	0.1382	3.00	PASS
	2441		3.28		3.78	2.39	0.1081	3.00	PASS
	2480		2.61		3.11	2.05	0.0934	3.00	PASS
8DPSK	2402	34.50	5.09	± 0.50	5.59	3.62	0.1627	3.00	PASS
	2441		3.80		4.30	2.69	0.1219	3.00	PASS
	2480		3.00		3.50	2.24	0.1022	3.00	PASS
BT LE	2402	34.50	-2.08	± 0.50	-1.58	0.70	0.0312	3.00	PASS
	2442		-2.88		-2.38	0.58	0.0262	3.00	PASS
	2480		-2.65		-2.15	0.61	0.0278	3.00	PASS
MESH	2410	34.50	16.25	± 0.50	16.75	47.32	2.1291	3.00	PASS
	2445		15.42		15.92	39.08	1.7714	3.00	PASS
	2475		14.47		14.97	31.41	1.4321	3.00	PASS