

MPE Calculation

Model Name : **SP135-C**
FCC ID : **S7A-SP135**

Device Category : **Portable device**
Separation distance : **42.3 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)			
GFSK	2402	42.30	15.77	± 0.50	16.27	42.36	1.5522	3.00	PASS
	2441		15.84		16.34	43.05	1.5902	3.00	PASS
	2480		16.01		16.51	44.77	1.6668	3.00	PASS
$\pi/4$ DQPSK	2402	42.30	6.72	± 0.50	7.22	5.27	0.1932	3.00	PASS
	2441		6.55		7.05	5.07	0.1873	3.00	PASS
	2480		6.46		6.96	4.97	0.1849	3.00	PASS
8DPSK	2402	42.30	6.97	± 0.50	7.47	5.58	0.2046	3.00	PASS
	2441		6.91		7.41	5.51	0.2034	3.00	PASS
	2480		6.83		7.33	5.41	0.2013	3.00	PASS
BT LE	2402	42.30	1.17	± 0.50	1.67	1.47	0.0538	3.00	PASS
	2442		1.56		2.06	1.61	0.0594	3.00	PASS
	2480		1.77		2.27	1.69	0.0628	3.00	PASS