

MPE Calculation

KDB 447498 - 4.3.1 b)

b) 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 (also illustrated in Appendix B):

- 1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)·(f(MHz)/150)]} mW,
for 100 MHz to 1500 MHz
- 2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)·10]} mW,
for > 1500 MHz and ≤ 6 GHz

KDB 447498 - Appendix B

Frequency (MHz)	Distance (mm)
	50
1900	109
2450	96
3600	79

Model Name : **SHARK MW**

FCC ID : **S7A-SP168**

Separation distance : **50.6 mm**

Modulation	Frequency (MHz)	Min. Test separation distance	Measured Maximum Average power	Tune-up tolerance	Max. Power with tune-up tolerance		SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance ≥ 50 mm	Limit	Result
		(mm)	(dBm)	(dB)	(dBm)	(mW)			
GFSK	2402	50.00	4.95	± 1.00	5.95	3.94	0.1220	97.13	PASS
	2442		6.07		7.07	5.09	0.1592	96.19	PASS
	2480		6.72		7.72	5.92	0.1863	95.56	PASS
π/4DQPSK	2402	50.00	2.96	± 1.00	3.96	2.49	0.0771	97.13	PASS
	2442		4.11		5.11	3.24	0.1014	96.19	PASS
	2480		4.80		5.80	3.80	0.1197	95.56	PASS
8DPSK	2402	50.00	3.12	± 1.00	4.12	2.58	0.0800	97.13	PASS
	2442		4.26		5.26	3.36	0.1049	96.19	PASS
	2480		4.91		5.91	3.90	0.1228	95.56	PASS
BT LE	2402	50.00	1.05	± 1.00	2.05	1.60	0.0497	97.13	PASS
	2442		2.21		3.21	2.09	0.0654	96.19	PASS
	2480		2.92		3.92	2.47	0.0777	95.56	PASS
MESH	2410	50.00	17.16	± 1.00	18.16	65.46	2.0325	96.95	PASS
	2445		16.87		17.87	61.24	1.9150	96.12	PASS
	2475		16.79		17.79	60.12	1.8915	95.63	PASS