

RF Exposure Report

FCC ID: 2APPB-SPK5-16

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.
- (1) Clause 4.3: General SAR test reduction and exclusion guidance
- Sub clause 4.31: Standalone SAR test exclusion considerations
- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:
- $$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation, mm})]*[\sqrt{f_{(\text{GHz})}}]}{\leq 3.0 \text{ for 1-g SAR}}$$
- $$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation, mm})]*[\sqrt{f_{(\text{GHz})}}]}{\leq 7.5.0 \text{ for 10-g SAR}}$$
- 2.4G WIFI:802.11b/g/n(HT20): 2412MHz~2462MHz
- 802.11n(HT40): 2422MHz~2452MHz

Test separation: 5mm					
Protocol	Channel Frequency (MHz)	Output Power Conducted Power (dBm)	Output Power Conducted Power (mW)	Calculation Value (mW/mm²)	Limit (mW/mm²)
802.11b	2462	8.87	7.709	2.419	3.0
802.11g	2412	7.84	6.081	1.899	3.0
802.11n HT20	2437	8.22	6.637	2.072	3.0
802.11n HT40	2437	7.38	5.470	1.703	3.0

Then SAR evaluation is not required

***** END OF REPORT *****