



FCC ID: 2AB7X-WPS33

According to KDB 447498 D01 General RF Exposure Guidance v06, section 4.3.1

SAR Test Exclusion Threshold for < 100 MHz and < 200 mm as per Appendix C

SAR exclusion for 100 MHz at 50 mm is 237 mW.

For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):³³

1) For *test separation distances* > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f_{\text{(MHz)}})]$

$$237 * [1 + \log(100/f_{(13.56)})] = 422 \text{ mW}$$

2) For *test separation distances* ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$

$$422 * (1/2) = 221 \text{ mW}$$

1. SAR test exclusion threshold

Frequency: 13.56 MHz, test separation distances ≤ 50 mm.

Max. Tune-up Tolerance (mW)	SAR Test Exclusion Thresholds (mW)
0.00000007	221

Remark:

-Based on field strength 23.79 dBuV/m at 3m transmit power(eirp) of the device was calculated as 0.00000007 mW using free space formula.

$$3\text{m result(dBuV/m)} = 30\text{m result(dBuV/m)} + 40 = -16.21 + 40 = 23.79 \text{ dBuV/m}$$

2. Conclusion: No SAR is required.