

RF Exposure

FCC ID: M9MFPA0100

1.0 INTRODUCTION

These calculations are based on the highest ERP possible from the EUT, measured in the radiated mode.

2.0 FCC RF EXPOSURE COMPLIANCE RESULT:

In accordance with FCC KDB Publication 447498 D01 V06 Clause 4.3.1 c) for transmit frequencies below 100 MHz:

- 1) For *test separation distances* >50 mm and <200 mm, the power threshold at the corresponding test separation distance at 100 MHz in section 4.3.1 step b) is multiplied by $[1 + \log(100/f_{(MHz)})]$
- 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 $\frac{1}{2}$

This table is for devices with a separation of less than 50 mm

MHz	Max Power dBm	Duty Cycle %	EUT EIRP mW	Min Sep mm	SAR Exc Threshold at 50mm 4.3.1 a) in mW	SAR Exclusion threshold per 4.3.1 b)1) in mW	SAR Exclusion threshold per 4.3.1 c) 2) in mW	Result	Notes
13.56	-29.3	100.0	0.0012	5	47.4	17.4	16.3	Exempt	Peak
0.125	-19.3	100.0	0.0117	5	47.4	17.4	34.0	Exempt	Peak

EUT EIRP << SAR exclusion threshold per 4.3.1 c) 2)

2.1 Calculations for Simultaneous Transmission.

In accordance with FCC KDB Publication 447498 D01 V06 Clause 7.2 (a)

From Clause 4.3.2 (b) 2) For distances > 50mm, 0.4 W/kg limit is used for 1-g SAR limit

	Freq. (MHz)	Max Power (dBm)	Duty Cycle %	Average Power per channel (mW)	Min Sep (mm)	SAR Calculation as per 4.3.2 b)1) W/kg	SAR Exc Threshold per 7.2 & 4.3.2 b) 1 g limit (W/kg)	Result
RFID	13.56	-29.3	100.0	0.0012	5	3.65E-06	0.4	
RFID	0.125	-19.3	100.0	0.0117	5	3.50E-06	0.4	
					Total	7.15E-06	0.4	Exempt