RF Exposure

FCC ID: M9MRNA0200

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 $test\ separation\ distances \le 50\ mm$, 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

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					SAR Exc	SAR	SAR						
					Threshold	Exclusion	Exclusion						
	Max			Min	at 50mm	threshold per	threshold per						
	Power	Duty	EUT EIRP	Sep	4.3.1 a) in	4.3.1 b)1)	4.3.1 c) 2)						
MHz	dBm	Cycle %	mW	mm	mW	in mW	in mW	Result	Notes				
13.56	-25.8	100.0	0.0026	5	47.4	17.4	16.3	Exempt	Peak				
0.125	-13.3	100.0	0.0468	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	-25.8	100.0	0.0026	5	8.17E-06	0.4	
RFID	0.125	-13.3	100.0	0.0468	5	1.39E-05	0.4	
			-		Total	2.21E-05	0.4	Exempt

RP-9438 Page 1 of 1