



# EMC Test Data

Client: Plantronics Inc.	Job Number: JD105563
Model: C052-XD1 and C054-XD1, 900 MHz Cordless Base Units	T-Log Number: T105585
	Project Manager: Christine Krebill
Contact: Bill Jones	Project Coordinator: -
Standard: FCC 15.247 / RSS-247	Class: N/A

## Maximum Permissible Exposure / SAR Exclusion

### Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 9/14/2017

Test Engineer: Deniz Demirci

Fremont EMC Lab #4A

### General Test Configuration

Calculation uses the free space transmission formula:

$$S = (PG)/(4 \pi d^2)$$

Where: S is power density (W/m<sup>2</sup>), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

FCC SAR Exclusion Calculation:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min.test separation distance, mm})] \cdot [\sqrt{f}(\text{GHz})]$$

### Summary of Results

Device complies with SAR exclusion at less than 5 mm separation:	<b>Yes</b>
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### Modifications Made During Testing

No modifications were made to the EUT during testing

### Deviations From The Standard

No deviations were made from the requirements of the standard.



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### FCC SAR Exclusion Calculation

Freq. MHz	EUT Power <sup>1</sup>		Max. duty cycle %	Ant. Gain dBi	Avg. Pwr. at Ant <sup>2</sup> dBm	Avg. Pwr. EIRP <sup>2</sup> mW	Separation Distance mm	SAR Exclusion Calc.	SAR Exclusion Limit (447498 D01 v06) (Section 4.3.1. (a))
	dBm	mW*							
902.850	17.4	55.0	7	2.2	5.9	6.4	5	0.73	3
915.000	15.0	31.6	7	2.2	3.5	3.7	5	0.42	3
927.125	14.1	25.7	7	2.2	2.6	3.0	5	0.35	3

Note 1: Maximum (gated) RMS average power.

Note 2: Maximum source based time-averaged output power.

### RSS-102 SAR Exclusion Calculation (Highest of output power or EIRP)

Freq. MHz	EUT Power <sup>1</sup>		Max. duty cycle %	Ant. Gain dBi	Avg. Pwr. at Ant <sup>2</sup> dBm	Avg. Pwr. EIRP <sup>2</sup> mW	Separation Distance mm	Maximum Power or EIRP (mW)	SAR Exclusion Limit <sup>3</sup> (RSS-102) mW
	dBm	mW*							
902.850	17.4	55.0	7	2.2	5.9	6.4	5	6.4	16.4
915.000	15.0	31.6	7	2.2	3.5	3.7	5	3.7	16.2
927.125	14.1	25.7	7	2.2	2.6	3.0	5	3.0	16.1

Note 1: Maximum (gated) RMS average power.

Note 2: Maximum source based time-averaged output power

Note 3: Linear interpolation was applied per RSS-102 Issue 5, Section 2.5.1