

Client: Plantronics Inc.	Job Number: JD105563
Model: C052-XD1 and C054-XD1, 900 MHz Cordless Base Units	T-Log Number: T105585
Contact: Bill Jones	Project Manager: Christine Krebill
Standard: FCC 15.247 / RSS-247	Project Coordinator: -
	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^2), 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:	Yes
--	------------

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.



EMC Test Data

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

FCC SAR Exclusion Calculation

Freq. MHz	EUT Power ¹		Max. duty cycle %	Ant. Gain dBi	Avg. Pwr. at Ant ² dBm	Avg. Pwr. EIRP ² mW	Separation Distance mm	SAR Exclusion Calc.	SAR Exclusion Limit (447498 D01 v06) (Section 4.3.1. (a))
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 ¹		Max. duty cycle %	Ant. Gain dBi	Avg. Pwr. at Ant ² dBm	Avg. Pwr. EIRP ² mW	Separation Distance mm	Maximum Power or EIRP (mW)	SAR Exclusion Limit ³ (RSS-102) 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