Client:	GE MDS LLC	Job Number:	J83512
Model:	Mercury 5800 Base Station, Mercury 5800 Subscriber	T-Log Number:	T83623
		Account Manager:	Susan Pelzl
Contact:	Dennis McCarthy		
Standard:	FCC 15.247, RSS-210, RSS-GEN	Class:	N/A

Maximum Permissible Exposure

Test Specific Details

Objective: Evaluate the RF Exposure requirements per FCC 1.1310, 2.1091 and RSS-102.

Date of Test: 3/8/2012
Test Engineer: David Bare

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).

Summary of Results

Device complies with Power Density requirements at 20cm separation:	Yes
If not, required separation distance (in cm):	

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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Standard:	FCC 15.247, RSS-210, RSS-GEN	Class:	N/A

Use: General
Antenna: Sector

Freq. MHz	EUT Power dBm	EUT Power mW*	Cable Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2
5730	25.5	354.8	5.5	15.5	20.0	3548.13	0.706	1.000
5788	25.6	363.1	5.5	15.5	20.1	3630.78	0.722	1.000
5846	25.6	363.1	5.5	15.5	20.1	3630.78	0.722	1.000

For the cases where S > the MPE Limit

Freq. MHz	S @ 20 cm mW/cm^2	MPE Limit mW/cm^2	Distance where S <= MPE Limit
5730	0.706	1.000	16.8cm
5788	0.722	1.000	17.0cm
5846	0.722	1.000	17.0cm

Antenna: Panel

Freq. MHz	EUT Power dBm	EUT Power mW*	Cable Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2
5730	25.5	354.8	8	18	17.5	3548.13	0.706	1.000
5788	25.6	363.1	8	18	17.6	3630.78	0.722	1.000
5846	25.6	363.1	8	18	17.6	3630.78	0.722	1.000

For the cases where S > the MPE Limit

Freq. MHz	S @ 20 cm mW/cm^2	MPE Limit mW/cm^2	Distance where S <= MPE Limit
5730	0.706	1.000	16.8cm
5788	0.722	1.000	17.0cm
5846	0.722	1.000	17.0cm