

Client: GE MDS LLC	Job Number: J83512
Model: Mercury5800	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: 10/10/2011
 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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Use: General
 Antenna: Sector

Freq. MHz	EUT Power		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
	dBm	mW*						
5731	16.5	44.7	0	18.5	16.5	3162.28	0.629	1.000
5788	16.3	42.7	0	18.5	16.3	3019.95	0.601	1.000
5844	16.3	42.7	0	18.5	16.3	3019.95	0.601	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
5731	0.629	1.000	15.9cm
5788	0.601	1.000	15.5cm
5844	0.601	1.000	15.5cm

Antenna: Panel

Freq. MHz	EUT Power		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
	dBm	mW*						
5727	17.5	56.2	0	18	17.5	3548.13	0.706	1.000
5788	17.7	58.9	0	18	17.7	3715.35	0.739	1.000
5847	17.7	58.9	0	18	17.7	3715.35	0.739	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
5727	0.706	1.000	16.8cm
5788	0.739	1.000	17.2cm
5847	0.739	1.000	17.2cm