Elliott
An NTS company

EMC Test Data

Client:	GE MDS LLC	Job Number:	J72039
		T-Log Number:	T72175
Model:	Mercury 3650	Account Manager:	Susan Pelzl
Contact:	Dennis McCarthy		
Standard:	RSS 119, FCC Part 90	Class:	N/A

Maximum Permissible Exposure

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: 8/14/2008

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
Required separation distance for 18dBi ant. (in m):	13.2
Required separation distance for 13dBi ant. (in m):	7.8

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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		Account Manager:	Susan Pelzl
Contact:	Dennis McCarthy		
Standard:	RSS 119, FCC Part 90	Class:	N/A

Use: General   Antenna: Panel 18dBi less 3dB cable loss

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
3652	22.3	169.8	3	18	19.3	5370.32	1.068	2.435
3662	22.3	169.8	3	18	19.3	5370.32	1.068	2.441
3672	22.3	169.8	3	18	19.3	5370.32	1.068	2.448

For the cases where S > the MPE Limit

Freq. MHz	Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2	Distance where S <= MPE Limit cm
3652	1.068	2.435	**13.2**
3662	1.068	2.441	**13.2**
3672	1.068	2.448	**13.2**

Use: General   Antenna: Omni 13dBi less 3dB cable loss

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
3652	22.7	186.2	3	13	19.7	1862.09	0.370	2.435
3662	22.7	186.2	3	13	19.7	1862.09	0.370	2.441
3672	22.7	186.2	3	13	19.7	1862.09	0.370	2.448

For the cases where S > the MPE Limit

Freq. MHz	Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2	Distance where S <= MPE Limit cm
3652	0.370	2.435	**7.8**
3662	0.370	2.441	**7.8**
3672	0.370	2.448	**7.8**