

Client: GE MDS LLC	Job Number: J69634
Model: SD4	T-Log Number: T69922
	Account Manager: Susan Pelzi
Contact: Dennis McCarthy	
Standard: FCC	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: 1/21/2008

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:	No
Required separation distance for 5dBi ant. (in m):	0.69
Required separation distance for 10dBi ant. (in m):	1.21
Required separation distance for 16.5dBi ant. (in m):	2.6

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:	GE MDS LLC	Job Number:	J69634
Model:	SD4	T-Log Number:	T69922
Contact:	Dennis McCarthy	Account Manager:	Susan Pelzi
Standard:	FCC	Class:	N/A

Use: General

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*						
406.1	37.1	5128.6	0	5	37.1	16218.10	3.226	0.271
450	37.4	5495.4	0	5	37.4	17378.01	3.457	0.300
512	37.1	5128.6	0	5	37.1	16218.10	3.226	0.341

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
406.1	3.226	0.271	69.0
450	3.457	0.300	67.9
512	3.226	0.341	61.5

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*						
406.1	37.1	5128.6	0	10	37.1	51286.14	10.203	0.271
450	37.4	5495.4	0	10	37.4	54954.09	10.933	0.300
512	37.1	5128.6	0	10	37.1	51286.14	10.203	0.341

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
406.1	10.203	0.271	122.8
450	10.933	0.300	120.7
512	10.203	0.341	109.3

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*						
406.1	37.1	5128.6	0	16.5	37.1	229086.77	45.575	0.271
450	37.4	5495.4	0	16.5	37.4	245470.89	48.835	0.300
512	37.1	5128.6	0	16.5	37.1	229086.77	45.575	0.341

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
406.1	45.575	0.271	259.5
450	48.835	0.300	255.2
512	45.575	0.341	231.1