



EMC Test Data

Client: GE MDS LLC	Job Number: JD101568
Model: LN700	T-Log Number: T101702
	Project Manager: Christine Krebill
Contact: Dennis McCarthy	Project Coordinator: -
Standard: FCC Parts 15 and 27	Class: N/A

Maximum Permissible Exposure

Test Specific Details

Objective: The objective of this test session is to perform an evaluation of the EUT with respect to the specification listed above.

Date of Test: 7/22/2016

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
If not, required separation distance (in cm):	298

Deviations From The Standard

No deviations were made from the requirements of the standard.



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FCC MPE Calculation

Use: General

Antenna: 16.5 dBi

Freq. MHz	EUT Power		Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP W	Power Density (S) at 20 cm mW/cm ²	MPE Limit at 20 cm mW/cm ²
	dBm	mW*						
757.5	41.0	12589.3	0	16.5	41.0	562.3	111.874	0.505
787.5	30.4	1096.5	0	16.5	30.4	49.0	9.744	0.525

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
757.5	111.874	0.505	297.7
787.5	9.744	0.525	86.2

Antenna: 10 dBi

Freq. MHz	EUT Power		Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP W	Power Density (S) at 20 cm mW/cm ²	MPE Limit at 20 cm mW/cm ²
	dBm	mW*						
757.5	41.0	12589.3	0	10	41.0	125.9	25.046	0.505
787.5	36.9	4897.8	0	10	36.9	49.0	9.744	0.525

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
757.5	25.046	0.505	140.8
787.5	9.744	0.525	86.2



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Antenna: 5 dBi

Freq. MHz	EUT Power		Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP W	Power Density (S) at 20 cm mW/cm ²	MPE Limit at 20 cm mW/cm ²
	dBm	mW*						
757.5	41.0	12589.3	0	5	41.0	39.8	7.920	0.505
787.5	41.0	12589.3	0	5	41.0	39.8	7.920	0.525

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
757.5	7.920	0.505	79.2
787.5	7.920	0.525	77.7