



EMC Test Data

Client:	GE MDS LLC	Job Number:	J95325
Model:	TD220Max	T-Log Number:	T95356
		Project Manager:	Christine Krebill
Contact:	Dennis McCarthy	Project Coordinator:	-
Standard:	FCC Parts 80, 90 and 95, RSS-119	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: 7/7/2014

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):	496.2

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: 14.9 dBi (The highest EIRP allowed for the radio at maximum power using this antenna gain)
 10 dBi
 6 dBi

Power Density calculated for max
Duty cycle of 50%

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	W						
216	44.6	28.8	0	14.9	44.6	891.3	88.65	0.144
216	44.6	28.8	0	10	44.6	288.4	28.69	0.144
216	44.6	28.8	0	6	44.6	114.8	11.42	0.144
216	43.0	20.0	0	16.5	43.0	891.3	88.65	0.144

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	Ant Gain dBi
216	88.65	0.144	496.2	14.9
216	28.69	0.144	282.3	10
216	11.42	0.144	178.1	6
216	88.65	0.144	496.2	16.5