Elliott

EMC Test Data

Client:	GE MDS LLC	Job Number:	J71354
Model	70220	T-Log Number:	T71417
Model.	10220	Account Manager:	Susan Pelzl
Contact:	Dennis McCarthy		
Standard:	RSS 119, FCC Part 90 and 15	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: 5/1/2008 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/m²), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

Summary of Results

If not, required separation distance (in cm): 501	Device complies with Power Density requirements at 20cm separation:	No
,	If not, required separation distance (in cm):	501

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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Madalı						T-Log Number:	T71417	
wodel:	: ID220						Account Manager:	Susan Pelzl
Contact:	Dennis McCarthy							
Standard:	RSS 119,	FCC Part	90 and 15				Class:	N/A
Use: Antenna:	General 16.5 dBi	Note: 50% allows 1/2	duty cycle the EIRP fo	ex opertion				
	El	JT	Cable	Ant	Power		Power Density (S)	MPE Limit
Freg.	Pov	wer	Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2
220	44.5	28183.8	0	16.5	44.5	629462.71	125.228	0.200
222	44.4	27542.3	0	16.5	44.4	615134.39	122.377	0.200
		uisity (S)		LITTIL	Distal			
Freq. MHz	at 20 mW/) cm cm^2	at 20 mW/) cm cm^2	S <= N	MPE Limit cm		
Freq. MHz 220	at 20 mW/ 125) cm cm^2 .228	at 20 mW/ 0.2) cm cm^2 200	S <= N 5	MPE Limit cm i00.5		
Freq. MHz 220 222	at 20 mW/o 125 122) cm cm^2 .228 .377	at 20 mW/0.2 0.2	0 cm cm^2 200 200	S <= N 5 4	MPE Limit cm 00.5 94.7		
Freq. MHz 220 222 Jse: Antenna: Freq. MHz 220	at 20 mW/ 125 122 General 10 dBi Et Pot dBm 44.5	0 cm 228 .228 .377 Note: 50% allows 1/2 JT wer mW* 28183.8	at 20 mW/ 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	0 cm cm ² 2 200 source bas or calculatio Ant Gain dBi 10	S <= M 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	MPE Limit cm 90.5 94.7 og for half duple istances EIRP mW 140919.15	ex opertion Power Density (S) at 20 cm mW/cm^2 28.035	MPE Limit at 20 cm mW/cm^2 0.200
Freq. <u>MHz</u> <u>220</u> <u>222</u> Jse: Antenna: Freq. <u>MHz</u> <u>220</u> <u>222</u>	at 20 mW/ 125 122 General 10 dBi El Pov dBm 44.5 44.4	0 cm 228 377 Note: 50% allows 1/2 JT wer mW* 28183.8 27542.3	at 20 mW/ 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	0 cm cm ² 2 200 source bas or calculatio Ant Gain dBi 10 10	S <= M 5 4 sed averagin on of MPE d Power at Ant dBm 44.5 44.4	MPE Limit cm i00.5 94.7 og for half duple istances EIRP mW 140919.15 137711.44	ex opertion Power Density (S) at 20 cm mW/cm^2 28.035 27.397	MPE Limit at 20 cm mW/cm^2 0.200 0.200
Freq. <u>MHz</u> 220 222 Jse: Antenna: Freq. <u>MHz</u> 220 222 For the cas	at 20 mW/ 125 122 General 10 dBi EU Pov dBm 44.5 44.4 es where S	0 cm cm^2 .228 .377 Note: 50% allows 1/2 JT wer mW* 28183.8 27542.3 S > the MP ensity (S)	at 20 mW/ 0.2 0.2 0.2 0 0 0 Cable Loss dB 0 0 0 E Limit MDE	0 cm cm^2 200 source bas or calculatio Ant Gain dBi 10 10 Limit	S <= N 5 4 sed averagin on of MPE d Power at Ant dBm 44.5 44.4	MPE Limit cm i00.5 94.7 ng for half duple istances EIRP mW 140919.15 137711.44	ex opertion Power Density (S) at 20 cm mW/cm^2 28.035 27.397	MPE Limit at 20 cm mW/cm^2 0.200 0.200
Freq. MHz 220 222 Jse: Antenna: Freq. MHz 220 222 For the cas	at 20 mW/ 125 122 General 10 dBi EL Pow dBm 44.5 44.4 es where S Power Do at 20	0 cm cm^2 .228 .377 Note: 50% allows 1/2 JT wer mW* 28183.8 27542.3 S > the MP ensity (S) 0 cm	at 20 mW/ 0.2 0.2 0.2 0 0 0 0 0 E Limit MPE at 20	0 cm cm^2 200 source bas or calculatio Ant Gain dBi 10 10 Limit	S <= M 5 4 sed averagin on of MPE d Power at Ant dBm 44.5 44.4 Distan S <= M	MPE Limit cm i00.5 94.7 ng for half duple istances EIRP mW 140919.15 137711.44	ex opertion Power Density (S) at 20 cm mW/cm^2 28.035 27.397	MPE Limit at 20 cm mW/cm^2 0.200 0.200
Freq. <u>MHz</u> <u>220</u> <u>222</u> Jse: Antenna: Freq. <u>MHz</u> <u>220</u> <u>222</u> For the cas Freq. <u>MHz</u>	at 20 mW/ 125 122 General 10 dBi EL Pow dBm 44.5 44.4 es where S Power Do at 20 mW/	0 cm cm^2 .228 .377 Note: 50% allows 1/2 JT wer mW* 28183.8 27542.3 S > the MP ensity (S) 0 cm cm^2	at 20 mW/ 0.2 0.2 0 0 2 0 0 0 0 E Limit MPE at 20 mW/	0 cm cm^2 200 source bas or calculatio Ant Gain dBi 10 10 Limit) cm cm^2	S <= M 5 6 6 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	MPE Limit cm 00.5 94.7 ng for half duple istances EIRP mW 140919.15 137711.44	ex opertion Power Density (S) at 20 cm mW/cm^2 28.035 27.397	MPE Limit at 20 cm mW/cm^2 0.200 0.200
Freq. MHz 220 222 Jse: Antenna: Freq. MHz 220 222 For the cas Freq. MHz 220	at 20 mW/ 125 122 General 10 dBi Et Pow dBm 44.5 44.4 es where S Power De at 20 mW/ 28	0 cm 228 228 377 Note: 50% allows 1/2 JT wer mW* 28183.8 27542.3 S > the MP ensity (S) 0 cm cm^2 035	at 20 mW/ 0.2 0.2 6 duty cycle the EIRP fe Cable Loss dB 0 0 E Limit MPE at 20 mW/	0 cm cm^2 200 source bas or calculation Ant Gain dBi 10 10 Limit 0 cm cm^2 200	S <= M 5 4 eed averagin on of MPE d Power at Ant dBm 44.5 44.4 Distan S <= M	MPE Limit cm 00.5 94.7 ng for half duple istances EIRP mW 140919.15 137711.44 nce where MPE Limit cm 136.8	ex opertion Power Density (S) at 20 cm mW/cm^2 28.035 27.397	MPE Limit at 20 cm mW/cm^2 0.200 0.200

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MOUEI.	10220	Account Manager:	Susan Pelzl
Contact:	Dennis McCarthy		
Standard:	RSS 119, FCC Part 90 and 15	Class:	N/A

Use: Antenna: GeneralNote: 50% duty cycle source based averaging for half duplex opertion6 dBiallows 1/2 the EIRP for calculation of MPE distances

	E	JT	Cable	Ant	Power		Power Density (S)	MPE Limit
Freq.	Po	wer	Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2
220	44.5	28183.8	0	6	44.5	56100.92	11.161	0.200
222	44.4	27542.3	0	6	44.4	54823.91	10.907	0.200

For the cases where S > the MPE Limit

	Power Density (S)	MPE Limit	Distance where
Freq.	at 20 cm	at 20 cm	S <= MPE Limit
MHz	mW/cm^2	mW/cm^2	cm
220	11.161	0.200	149.4
222	10.907	0.200	147.7