	NTS	EM	C Test Data
Client:	GE MDS LLC	Job Number:	PR089859
Model:	I NI400	T-Log Number:	TL089859-RA
Model.	LN400	Project Manager:	Christine Krebill

Maximum Permissible Exposure / SAR Exclusion

Project Coordinator: David Bare

Class: N/A

Test Specific Details

Standard: FCC part 90

Contact: Dennis McCarthy

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: 11/30/2018 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

I N∩	Device complies with Power Density requirements at 20cm separation:
390	If not, required separation distance (in cm):

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:	PR089859
Model:	LNAOO	T-Log Number: TL089859-RA	
Model.	LIV400	T-Log Number: TL089859-RA Project Manager: Christine Krebill Project Coordinator: David Bare	Christine Krebill
Contact:	Dennis McCarthy	Project Coordinator:	David Bare
Standard:	FCC part 90	Class:	N/A

Run #1: FCC MPE Calculation for 300-1500 MHz single transmitters (General use)

Use: General

Antenna: 5 dBi, 10 dBi and 16 dBi

Run #1a: Antenna gain: 5 dBi

	El	JT	Cable Loss	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
406.1	41.1	12882.5	0	5	41.1	40738.03	8.105	0.271
470	41.1	12882.5	0	5	41.1	40738.03	8.105	0.313
512	41.1	12882.5	0	5	41.1	40738.03	8.105	0.341

For the cases where S > the MPE Limit

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	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
406.1	8.105	0.271	109.4
470	8.105	0.313	101.7
512	8.105	0.341	97.5

Run #1b: Antenna gain: 10 dBi

	E	JT	Cable Loss	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
406.1	41.1	12882.5	0	10	41.1	128824.96	25.629	0.271
470	41.1	12882.5	0	10	41.1	128824.96	25.629	0.313
512	41.1	12882.5	0	10	41.1	128824.96	25.629	0.341

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
406.1	25.629	0.271	194.6
470	25.629	0.313	180.9
512	25.629	0.341	173.3

Note: These power values include margin for acceptable tolerance, refer to user's guide.

Client:	GE MDS LLC			Job Number: I	PR089859			
Madal	1.1.400						T-Log Number:	TL089859-RA
Model:	LN400						Project Manager: Christine Krebill	
Contact:	Dennis McCar	thy		Project Coordinator: I	David Bare			
Standard:	andard: FCC part 90					Class: I	N/A	
	·					<u>'</u>		
tun #1c: A	ntenna gain: 1 EUT		Cable Loss	Ant	Dower	1	Power Density (S)	MPE Limit
Freq.	Powe		Loss	Ant Gain	Power at Ant	EIRP	at 20 cm	at 20 cm
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2
406.1		12882.5	0	16	41.1	512861.38	102.031	0.271
470		12882.5	0	16	41.1	512861.38	102.031	0.313
512		12882.5	0	16	41.1	512861.38	102.031	0.341
Freq. MHz 406.1 470 512	Power Density (S) at 20 cm mW/cm^2 102.031 102.031		at 20 cm at 20 cm S <= MPE Limit					
Note:	These power v	/alues incl	ude margin for	acceptable	e tolerance.	refer to user's	guide.	