EMC Test Data

Client:	GE MDS LLC	Job Number:	JD99150
Model:		T-Log Number:	T99463
	GFA-9	Project Manager:	Christine Krebill
Contact:	Dennis McCarthy	Project Coordinator:	-
Standard:	FCC part 90 & RSS-131	Class:	N/A

Maximum Permissible Exposure / SAR Exclusion

Test Specific Details

Objective: Evaluate the RF Exposure requirements per FCC 1.1310, 2.1091 and RSS-102.

Date of Test: 4/28/2017 Test Engineer: David Bare

General Test Configuration

Calculation uses the free space transmission formula:

SUCCESS

 $S = (PG)/(4 \pi d^2)$

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

Device complies with Power Density requirements at 20cm separation:	No
If not, required separation distance (in m):	3.82

Notes

Radiated power in 896-901 and 935-940 band per §90.635 = 1,000 W. Radiated power in the 929–930 MHz band per §90.494 = 3,500W

Operation is not subject to routine environmental evaluation per table 1 of FCC Rules §1.1307 or §1.1307(b)(2)

Deviations From The Standard

No deviations were made from the requirements of the standard.

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Contact:	Dennis McC	Carthy					Project Coordinator	-	
Standard:	ECC part 90) & RSS-131					Class:	N/Δ	
Stanuaru.	r oo part st						01035.	N/7	
FCC MPE C Use: Antenna:	E Calculation General EUT Power adjusted for maximum including any tolerance 0 dBi								
	E	UT	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	
896	46.3	42658.0	0	0	46.3	42657.95	8.487	0.597	
928	46.3	42658.0	0	0	46.3	42657.95	8.487	0.619	
940	46.3	42658.0	0	0	46.3	42657.95	8.487	0.627	
For the case Freq. MHz	es where S > the MPE Li Power Density (S) at 20 cm mW/cm^2		mit MPE Limit at 20 cm mW/cm^2 Cm D 57 T 4		ce where IPE Limit cm				
928	8.4	+07 187	0.597		73.4				
940	8.4	487	0.613		73.6				
Antenna: 8.5 dBd < max allowed based on ERP limit									
Гиск	E	UI	Cable Loss	Ant	Power		Power Density (S)	MPE Limit	
Freq.	dBm	wei m\//*		dBi	dBm		at 20 cm m\//cm^2	at 20 cm m\//cm^2	
896	46.3	42658.0		10.7	46.3	498.88	99.250	0 597	
928	46.3	42658.0	0	10.7	46.3	498.88	99.250	0.619	
940	46.3	42658.0	0	10.7	46.3	498.88	99.250	0.627	
For the case	es where S >	the MPE Lir	nit MPE	Limit	Distan	ce where			
Freq	at 20 cm		at 20 cm		S <= MPF Limit				
MH ₇	mW/cm^2		mW/cm^2						
896	99.250		0.597		257.8				
928	99.250		0.619		253.3				
940	99.250		0.627 251.7		51.7				

		R SUCCESS					EM	C Test Data
Client:	GE MDS LLC						Job Number:	JD99150
						T-Log Number:	T99463	
Model:	I: GPA-9						Project Manager:	Christine Krebill
Contact:	Dennis Mc0	Carthy					Project Coordinator:	-
Standard:	FCC part 90) & RSS-131					Class: N/A	
Otanuaru.							01000.	
Industry Ca Use: Antenna:	nada MPE General 0 dBi	Calculation						
	E	UT	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
896	46.3	42658.0	0	0	46.3	42657.95	8.487	0.273
928	46.3	42658.0	0	0	46.3	42657.95	8.487	0.279
953	46.3	42658.0	0	0	46.3	42657.95	8.487	0.284
For the case	es where S > Power D at 2	• the MPE Lir ensity (S) 0 cm	MPE at 20	MPE Limit Distance where at 20 cm S <= MPE Limit				
MHz	mW/cm^2		mW/cm^2		cm			
896	8.4	487	0.273		111.6			
928	8.4	487	0.2	79	110.2			
953	8.4	487	0.284		109.2			
Antenna:	8.5 dBd	< max allwo	ed based on	ERP limit				
_	E	UT	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	W	mW/cm^2	mW/cm^2
896	46.3	42658.0	0	10.7	46.3	498.88	99.250	0.273
928	46.3	42658.0	0	10.7	46.3	498.88	99.250	0.279
For the case	es where S >	• the MPE Lir	nit MPE	Limit	Distanc	2 490.00	99.200	0.204
Freq.	at 20 cm		at 20 cm		S <= MPE Limit			
MHz	mW/cm^2		mW/cm^2		cm			
896	99.250		0.273		381.5			
928	99.250		0.279		377.0			
953	99.250		0.2	0.284 373.6		3.6		