Client:	S & C Electric	Job Number:	J67303
Model:	SpeedNet Radio	T-Log Number:	T67420
		Account Manager:	Sheareen Washington
Contact:	David Munoz		
Standard:	FCC Part 15.247	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: 1/2/2008
Test Engineer: Mark Hill

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):	23
Maximum Power Density at 20cm (W/m^2)	6.19

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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Model:	SpeedNet Radio	T-Log Number:	T67420
		Account Manager:	Sheareen Washington
Contact:	David Munoz		
Standard:	FCC Part 15.247	Class:	N/A

Use: General
Antenna: 12.1dBi Yagi

Note: The cable loss was set to achieve the maximum allowed 4 W EIRP. This represents worse case calculation of S.

Freq. MHz	EUT Power dBm	EUT Power mW*	Cable Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2
902.175	27.0	501.2	3.1	12.1	23.9	3981.07	0.792	0.601
915.175	27.7	584.8	3.8	12.1	23.9	3953.67	0.787	0.610
927.8	27.8	606.7	3.9	12.1	23.9	4008.67	0.797	0.619

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
902.175	0.792	0.601	23.0
915.175	0.787	0.610	22.7
927.8	0.797	0.619	22.7

Use: General
Antenna: 5.1dBi Omni

Freq. MHz	EUT Power dBm	EUT Power mW*	Cable Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2
902.175	27.0	501.2	0	5.1	27.0	1621.81	0.323	0.601
915.175	27.7	584.8	0	5.1	27.7	1892.34	0.376	0.610
927.8	27.8	606.7	0	5.1	27.8	1963.36	0.391	0.619

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
902.175	0.323	0.601	14.6
915.175	0.376	0.610	15.7
927.8	0.391	0.619	15.9