



EMC Test Data

Client:	Ambient Systems	Job Number:	J77006
Model:	SmartPoint (TAG_Module)	T-Log Number:	T77204
Contact:	Bob Ashlock	Account Manager:	Christine Krebill
Standard:	FCC 15.247/RSS-210	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: 11/17/2009

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:	Yes
Worse Case Power Density (mW/cm^2)	0.004

Use: General
Antenna: Internal

Freq. MHz	EUT Power		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
	dBm	mW*						
2405	-	-	-	-	-	18.40	0.004	1.000
2440	-	-	-	-	-	10.60	0.002	1.000
2475	-	-	-	-	-	17.60	0.004	1.000

Note - EIRP values calculated from field strengths

FCC Threshold = $60/f(\text{GHz})$ mW = $60/2.475 = 24.2$ mW

EUT max power = 18.4 mW

Result - EUT is below the FCC and IC threshold for RF Exposure