

Client: Tivo	Job Number: J90460
Model: TCD840300 (Roamio Pro) and TCD848000 (Roamio Plus)	T-Log Number: T90707
	Project Manager: Sheareen Jacobs
Contact: Jim Inokuchi	Project Coordinator: -
Standard: FCC 15B	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: 7/9/2013

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/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
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

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Use: General

Band		Output Power		Antenna gain (Max)	EIRP		Channels Available	Channels Used	Total EIRP		
		Peak	Average		dBm	W			W	dBm	
2412 - 2462	Module	23.8	18.3	3.0	21.3	0.135	11	1	0.135	21.30	
2425 - 2475	EUT	2.8	-	2.5	5.3	0.003	3	1	0.003	5.30	
Totals:								2		0.138	21.41

Band		Output Power		Antenna gain (Max)	EIRP		Channels Available	Channels Used	Total EIRP		
		Peak	Average		dBm	W			W	dBm	
2425 - 2475	EUT	2.8	-	2.5	5.3	0.003	3	1	0.003	5.30	
5180 - 5240	Module		16.9	4.5	21.4	0.138	3	1	0.138	21.40	
Totals:								2		0.141	21.51

Band		Output Power		Antenna gain (Max)	EIRP		Channels Available	Channels Used	Total EIRP		
		Peak	Average		dBm	W			W	dBm	
2425 - 2475	EUT	2.8	-	2.5	5.3	0.003	3	1	0.003	5.30	
5260 - 5320	Module	27.8	22.9	4.7	27.6	0.575	3	1	0.575	27.60	
Totals:								2		0.579	27.63

Band		Output Power		Antenna gain (Max)	EIRP		Channels Available	Channels Used	Total EIRP		
		Peak	Average		dBm	W			W	dBm	
2425 - 2475	EUT	2.8	-	2.5	5.3	0.003	3	1	0.003	5.30	
5500 - 5700	Module		22.7	4.7	27.4	0.550	3	1	0.550	27.40	
Totals:								2		0.553	27.43



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Band		Output Power		Antenna gain (Max)	EIRP		Channels Available	Channels Used	Total EIRP	
		Peak	Average		dBm	W			W	dBm
2425 - 2475	EUT	2.8	-	2.5	5.3	0.003	3	1	0.003	5.30
5725 - 5850	Module		-	5.2	5.2	0.003	5	1	0.003	5.20
Totals:								2	0.007	8.26

Maximum From Above	Power Density at 20 cm mW/cm ²	MPE Limit at 20 cm mW/cm ²	Distance where S <= MPE Limit cm
	0.115	1.000	6.8cm