

RF Exposure Exhibit

Project Number: 4262158

Report Number: 4262158EMC04

Client: Applied Micro Design Inc.

Equipment Under Test: Fiber to Antenna Transmission System

Model: 121317-DL

Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498
FCC OET Bulletin 65 Supplement

Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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1 General Information

1.1 Client Information

Name: Applied Micro Design Inc.
Address: 19516 Amaranth Drive
City, State, Zip, Country: Germantown, MD, 20874

1.1 Test Laboratory

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 3212.01

1.2 General Information of EUT

Type of Product: Fiber to Antenna Transmission System
Model Number: 121317-UL/DL
Serial Number: Not labeled
Band 1 of Operation: 151.115 – 171.175 MHz 0 dBm
Band 2 of Operation: 453.2125 – 484.7625 MHz 0 dBm
Band 3 of Operation: 763.000 – 775.0000 MHz 0 dBm
Band 4 of Operation: 851.2125 – 853.9125 MHz 0 dBm

Rated Voltage: 48 Vdc
Tested Voltage: 48 Vdc

1.3 Operating Modes and Conditions

For details, see report number 4262158EMC01 issued by SGS North America.

2 RF Exposure

2.1 Test Result

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

2.2 Test Method

Using the maximum power (including tune-up tolerances), the power density was calculated. Maximum antenna gain was assumed for this exercise.

For details on power measurement, see report number 4262158EMC01 issued by SGS North America.

2.3 Single transmission RF Exposure Levels (mW/cm^2)

Band of Operation		Conducted Power w/tolerance dBm	Antenna Gain	Cable Loss	Average EIRP		Distance (R) cm	Power Density $\text{EIRP}_{\text{avg}}/(4\pi R^2)$ mW/cm^2	FCC mW/cm^2	% of Limit	Verdict
Type	MHz				dBm	mW					
Part 90 Booster	151.115-171.175	0.0	0.0	0.0	0.0	1	20	0.00020	0.20	0%	Pass
Part 90 Booster	453.21-484.76	0.0	0.0	0.0	0.0	1	20	0.00020	0.30	0%	Pass
Part 90 Booster	763-775	0.0	0.0	0.0	0.0	1	20	0.00020	0.51	0%	Pass
Part 90 Booster	851.2125-853.9125	0.0	0.0	0.0	0.0	1	20	0.00020	0.57	0%	Pass