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

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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	Antenna Gain	Cable Loss	Average EIRP		Distance (R)	Power Density $EIRP_{Avg}/(4\pi R^2)$	FCC	% of Limit	Verdict
Type	MHz	dBm			dBm	mW	cm	mW/cm^2	mW/cm^2		
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