RF TEST REPORT



Report No.: RF_SL14102101-MIM-001_FCC_Rev1.0 Supersede Report No.: RF_SL14102101-MIM-001_FCC

Applicant	Mimosa Networks, Inc.		
Product Name	Point to Point Device		
Model No.	B5c Connectorized		
Test Standard	47 CFR Part 90 Subpart Y		
Test Procedure	47 CFR Part 90 Subpart Y		
FCC ID	2ABZJ-100-00014PS		
Date of test	10/27/2014 - 10/29/2014		
Issue Date	12/16/2014		
Test Result	Pass Fail		
Equipment compli	ed with the specification	[x]	
Equipment did not	comply with the specification	[]	
Angel Escamilla Pavid Zhang			
Angel Escamilla David Zhang			
	Test Engineer Engineer Reviewer		
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only			

Issued By:
SIEMIC Laboratories
775 Montague Expressway, Milpitas, 95035 CA



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Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC, RF/Wireless, Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless, Telecom
Taiwan	BSMI, NCC, NIST	EMC, RF, Telecom, Safety
Hong Kong	OFTA, NIST	RF/Wireless, Telecom
Australia	NATA, NIST	EMC, RF, Telecom, Safety
Korea	KCC/RRA, NIST	EMI, EMS, RF, Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC, RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom, Safety
Israel	COM, NIST	EMC, RF, Telecom, Safety

Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC, RF, Telecom
Canada	IC FCB, NIST	EMC, RF, Telecom
Singapore	iDA, NIST	EMC, RF, Telecom
EU	NB	EMC & R&TTE Directive
Japan	MIC (RCB 208)	RF, Telecom
Hong Kong	OFTA (US002)	RF, Telecom

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Report Revision History

Report No.	Report Version	Description	Issue Date
RF_SL14102101-MIM-001_FCC	-	Original	11/18/2014
RF_SL14102101-MIM-001_FCC_Rev1.0	1.0	Update EUT information	12/16/2014





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2 **Executive Summary**

The purpose of this test program was to demonstrate compliance of following product

<u>Company:</u> Mimosa Networks, Inc. <u>Product:</u> Point to Point Device <u>Model:</u> B5c Connectorized

against the current Stipulated Standards. The specified model product stated above has demonstrated compliance with the Stipulated Standard listed on 1st page.

3 Customer information

Applicant Name	Mimosa Networks, Inc.
Applicant Address	300 Orchard City Dr. Suite 100, Campbell, CA 95008, USA
Manufacturer Name	Mimosa Networks, Inc.
Manufacturer Address	300 Orchard City Dr. Suite 100, Campbell, CA 95008, USA

4 Test site information

Lab performing tests	SIEMIC Laboratories
Lab Address	775 Montague Expressway, Milpitas, CA 95035
FCC Test Site No.	881796
IC Test Site No.	4842D-2
VCCI Test Site No.	A0133

5 Modification

Index	Item	Description	Note
-	-	-	-

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6 EUT Information

6.1 **EUT Description**

Product Name	Point to Point Device	
Model No.	B5c Connectorized	
Trade Name	Mimosa	
Serial No.	Prototype	
Input Power via PoE	48VDC	
PoE Adapter Manu/Model	Fortune Power / GRT 480125A	
Power Adapter SN	N/A	
Hardware version	N/A	
Software version	N/A	
Date of EUT received	10/27/2014	
Equipment Class/ Category	TNB	
Highest Clock Frequency	N/A	
Port/Connectors	RJ45, N-Type	

6.2 Radio Description

Spec for Radio -

Radio Type	
Operating Frequency	4950MHz – 4980MHz
Modulation	OFDM, 16-QAM, 64-QAM, 256-QAM
Channel Spacing	20MHz
Number of Channels	7
Antenna Gain	0dBi: Dual-pol antenna
Antenna Gain	25dBi: Dual-pol antenna
Antenna Type	OdBi: External antenna
Antenna Type	25dBi: External antenna
Antenna Connector Type	N-type

6.3 EUT test modes/configuration Description

	Note	
Test_mode_1	Continuous Transmit	-
Test_mode_2	-	
Remark:		

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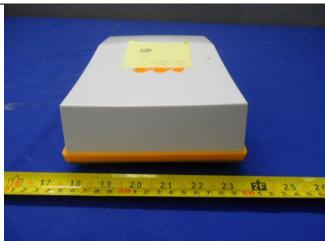




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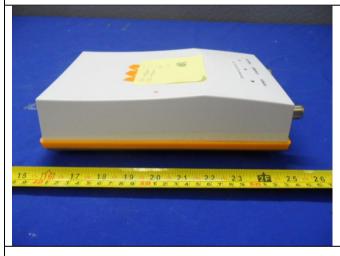
EUT Photos – External 6.4





EUT - Front View

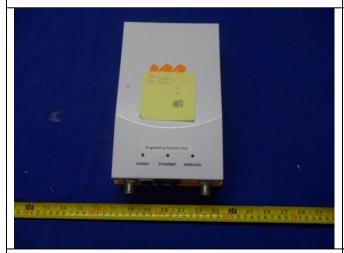
EUT - Rear View





EUT - Left View

EUT – Right View





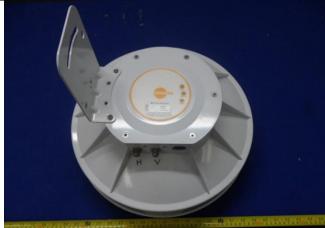
EUT - Top View

EUT - Bottom View



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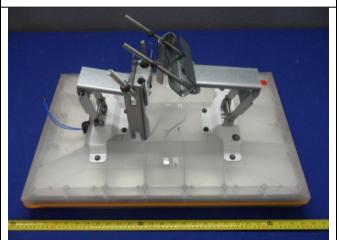


25dBi Antenna - Top View

25dBi Antenna - Bottom View





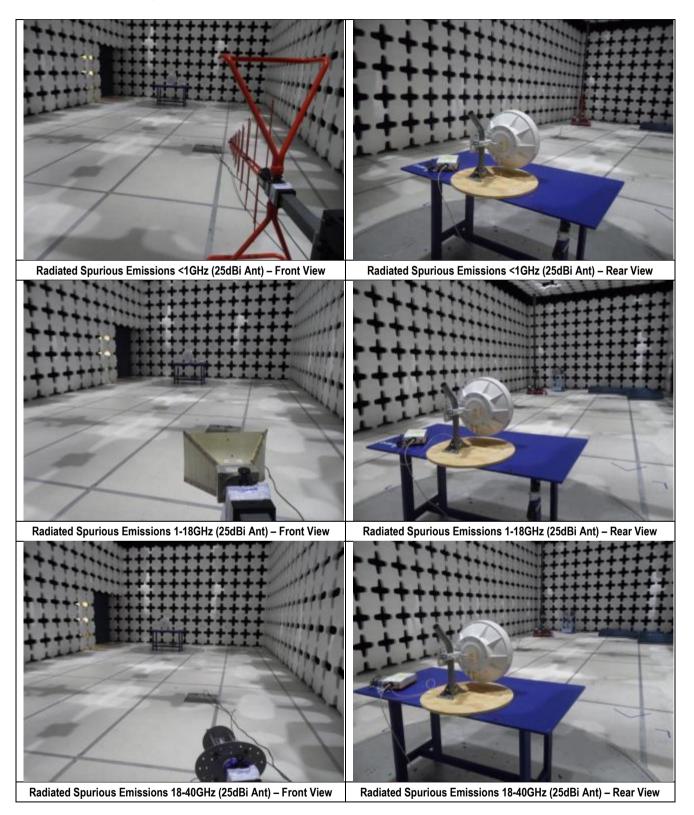


0dBi Antenna - Bottom View



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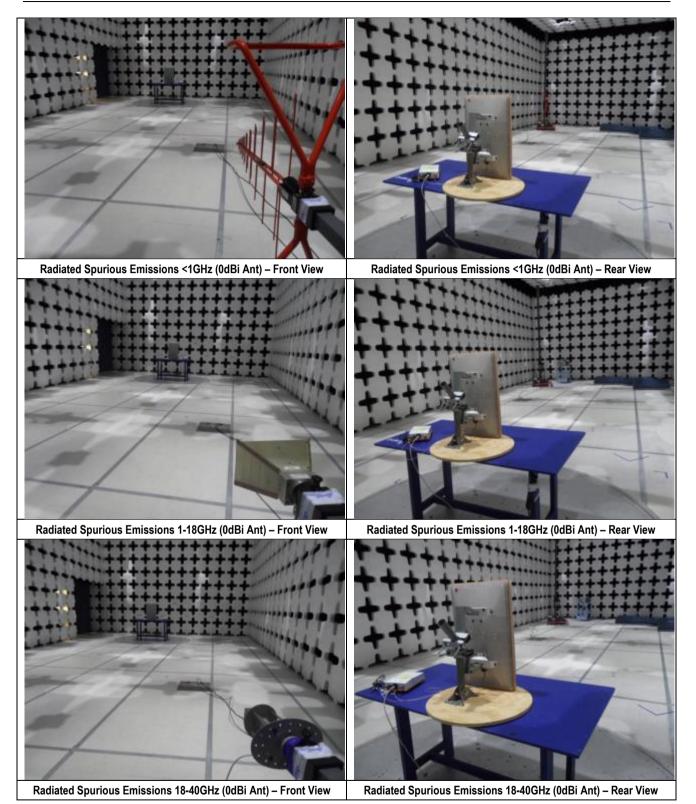
6.5 EUT Test Setup Photos





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7 Supporting Equipment/Software and cabling Description

7.1 Supporting Equipment

Item	Supporting Equipment Description	Model	Serial Number	Manufacturer	Note
1	Laptop	T530	-	Lenovo	-
2	PoE Adapter	GRT 280125A	-	Fortune Power	-

7.2 Test Software Description

Test Item	Software	Description
RF Tests	Software provided by manufacturer	Set the EUT to different channels and modulations

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8 Test Summary

Test Item		Test standard	Test Method/Procedure	Pass / Fail
Occupied Bandwidth & Emissions Mask	FCC	§90 Subpart Y	FCC §2.1049 FCC §90.210	⊠ Pass □ N/A
Peak Output Power	FCC	§90 Subpart Y	FCC §2.1046 FCC §90.1215(a)	⊠ Pass □ N/A
Power Spectral Density	FCC	§90 Subpart Y	FCC §2.1046 FCC §90.1215(a)	⊠ Pass □ N/A
Peak Excursion	FCC	§90 Subpart Y	FCC §90.1215	⊠ Pass □ N/A
Conducted Spurious Emission at the Antenna Terminals	FCC	§90 Subpart Y	FCC §2.1051 FCC §90.210	⊠ Pass □ N/A
Radiated Spurious Emission	FCC	§90 Subpart Y	FCC §2.1053 FCC §90.210	⊠ Pass □ N/A
Frequency Stability	FCC	§90 Subpart Y	FCC §2.1055 FCC §90.213	⊠ Pass □ N/A
 All measurement uncertainties do not take into consideration for all presented test results. The applicant shall ensure frequency stability by showing that an emission is maintained within the band of operation under all normal operating conditions as specified in the user's manual. 				

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Measurement Uncertainty 9

Emissions					
Test Item Frequency Range Description					
Radiated Spurious Emissions	30MHz – 1GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/- 4.5dB		
Radiated Spurious Emissions	1GHz – 40GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+4.3dB/- 4.1dB		

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10 Measurements, Examination and Derived Results

10.1 Occupied Bandwidth & Emissions Mask

Requirement(s):

Spec	Requirement			Applicable
	dBm operating in the 49	40-4990 MHz frequency ban	gh power transmitters (greater than 20 d, the power spectral density of the er of the transmitter as follows:	
	Minimum Attenuation			
	Frequency Offset fd	Low Power Transmitter High Power Transmitter		
FCC §2.1049	0 < f _d ≤ 45	0	0	_
FCC §90.210	45 < f _d ≤ 50	219 log(f _d /45)	568 log(f _d /45)	
	50 < f _d ≤ 55	10 + 242 log(f _d /50)	26 + 145 log(f _d /50)	
	55 < f _d ≤ 100	20 + 31 log(f _d /55)	$32 + 31 \log(f_d/55)$	
	100 < f _d ≤ 150	28 + 68 log(f _d /100)	40 + 57 log(f _d /100)	
	f > 150	40	50 dB or 55 + 10 log (P) dB,	
	f _d > 150	40	whichever is the lesser attenuation.	
	fd is the percentage of the	ne equipment's channel band	dwidth.	
Test Setup	Spectrum A	nalyzer	EUT	
	The zero dD reference is			
Test Procedure	measured across the de	signated channel bandwidth	phest average power of the fundamental using a resolution bandwidth of at least and a video bandwidth of 30 kHz.	
Test Procedure Remark	measured across the de	signated channel bandwidth	using a resolution bandwidth of at least	
	measured across the de	signated channel bandwidth	using a resolution bandwidth of at least	
Remark Environmental	measured across the de the occupied bandwidth - Temperature (°C) Humidity (%)	signated channel bandwidth of the fundamental emission 21 °C 38%	using a resolution bandwidth of at least	

i est Data	⊠ Yes	□ N/A

Test Plot ⊠ Yes □ N/A



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Low Power Setting - 25dBi Antenna Gain Measurement Results

Frequency (MHz)	Channel	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
4950	Low	27.390	19.626
4965	Middle	27.410	19.729
4980	High	27.260	19.570

High Power Setting - 0dBi Antenna Gain Measurement Results

Frequency (MHz)	Channel	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
4950	Low	33.010	19.862
4965	Middle	32.490	19.745
4980	High	31.780	19.789

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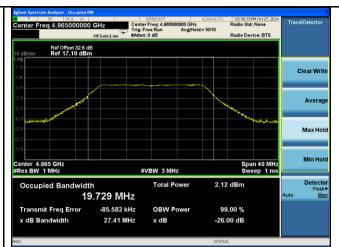




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Occupied Bandwidth Test Plots

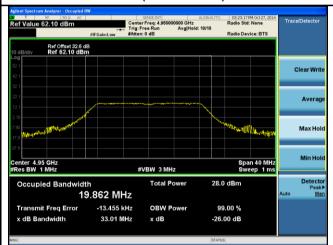




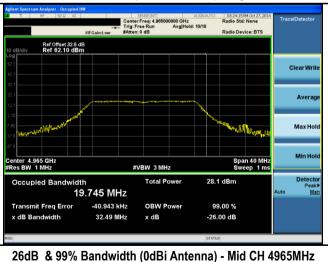
26dB & 99% Bandwidth (25dBi Antenna) - Low CH 4950MHz



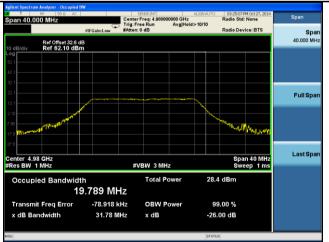
26dB & 99% Bandwidth (25dBi Antenna) - Mid CH 4965MHz



26dB & 99% Bandwidth (25dBi Antenna) - High CH 4980MHz



26dB & 99% Bandwidth (0dBi Antenna) - Low CH 4950MHz



5MHz 26dB & 99% Bandwidth (0dBi Antenna) - High CH 4980MHz

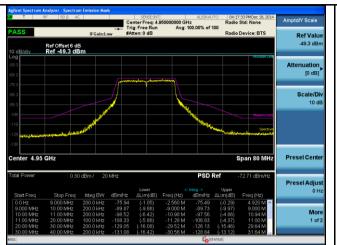
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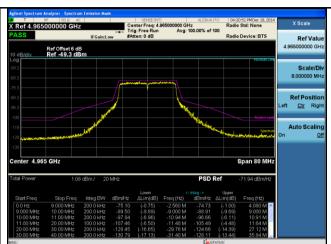




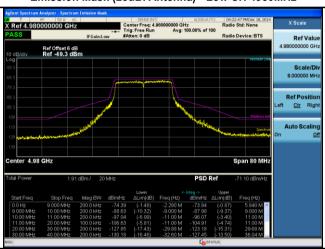
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Emission Mask Test Plots

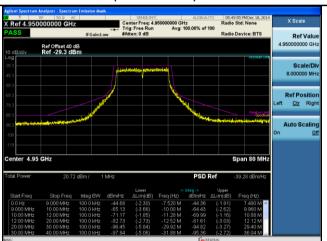




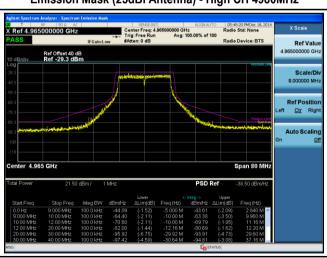
Emission Mask (25dBi Antenna) - Low CH 4950MHz



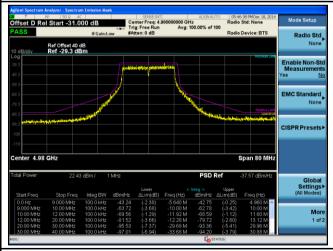
Emission Mask (25dBi Antenna) - Mid CH 4965MHz



Emission Mask (25dBi Antenna) - High CH 4980MHz



Emission Mask (0dBi Antenna) - Low CH 4950MHz



Emission Mask (0dBi Antenna) - Mid CH 4965MHz

Emission Mask (0dBi Antenna) - High CH 4980MHz



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10.2 Peak Output Power

Requirement(s):

Test Plot

Spec	Requirement			Applicable
	must not exceed the m	e transmitting power of stations operatinaximum limits in this section. ted output power should not exceed:	ng in the 4940-4990 MHz band	
FCC §2.1046 FCC §90.1215(a)	Channel bandwidth (MHz)	Low power maximum conducted output power (dBm)	High power maximum conducted output power (dBm)	
	1 5 10 15	7 14 17 18.8	20 27 30 31.8	
	conducted output pow	20 as of directional gain greater than 9 dBi a er and the peak power spectral density s t the directional gain of the antenna exc	should be reduced by the	
Test Setup	La	ptop	Т	
Test Procedure	transmission using ins connected directly, alto results shall be proper resolution bandwidth of	ted output power is measured as a conc trumentation calibrated in terms of an R ernative techniques acceptable to the Co ly adjusted for any instrument limitations apability when compared to the emissio ted output power measurement.	MS-equivalent voltage. If the de ommission may be used. The ms, such as detector response times.	vice cannot be easurement es, limited
Environmental conditions	Temperature (°C) Humidity (%) Atmospheric (mbar)	23 °C 40% 1019 mbar		
Test Date	10/27/2014	•		
Remark	All maximum conducte measurement.	ed output power measurements were do	ne using a peak detector for pea	ak output power

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□ N/A





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Low Power Setting - Maximum Peak Output Power measurement results (25dBi Antenna Gain)

Channel	Frequency	C	Output Power				
	(MHz)	Chain 1	Chain 4	Combined Power or Highest Power	Limit (dBm)	Result	
Low	4950	-2.10	-2.11	0.91	4	Pass	
Mid	4965	-2.10	-2.20	0.86	4	Pass	
High	4980	-1.78	-2.13	1.06	4	Pass	
Note	For low power setting with 25dBi antenna gain, the limit for PSD is reduced by the dB that is exceeding the 9 dBi antenna gain. Reduced Power Limit = Original Power Limit – (Antenna Gain – 9 dBi) = 4 dBm						
	Reduced Power Limit	t = Originai Power Limit – (7	Antenna Gain – 9 dBi) = 4 abm			

Channel	Frequency	Co	Output Power				
	(MHz)	Chain 2	Chain 3	Combined Power or Highest Power	Limit (dBm)	Result	
Low	4950	-2.09	-3.50	0.27	4	Pass	
Mid	4965	-3.38	-2.97	-0.16	4	Pass	
High	4980	-2.41	-2.43	0.59	4	Pass	
Note	For low power setting with 25dBi antenna gain, the limit for PSD is reduced by the dB that is exceeding the 9 dBi antenna gain.						
	Reduced Power Limit	t = Original Power Limit – (A	Antenna Gain – 9 dBi)	= 4 dBm			

High Power Setting - Maximum Peak Output Power measurement results (0dBi Antenna Gain)

Frequency	С	Output Power				
Channel	(MHz)	Chain 1	Chain 4	Combined Power or Highest Power	Limit (dBm)	Result
Low	4950	25.64	25.61	28.64	33	Pass
Mid	4965	25.90	25.87	28.90	33	Pass
High	4980	26.14	25.94	29.05	33	Pass

	Frequency	Conducted Power (dBm)			Output Power	
Channel	(MHz)	Chain 2	Chain 3	Combined Power or Highest Power	Limit (dBm)	Result
Low	4950	27.81	25.31	29.75	33	Pass
Mid	4965	28.41	26.23	30.47	33	Pass
High	4980	28.52	24.44	29.95	33	Pass

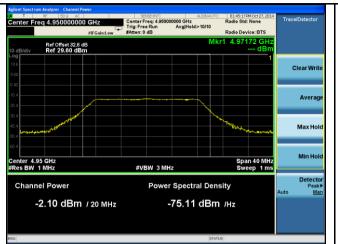
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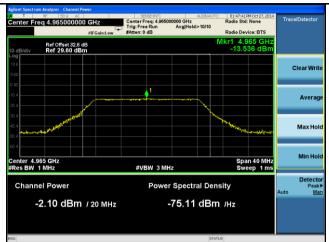




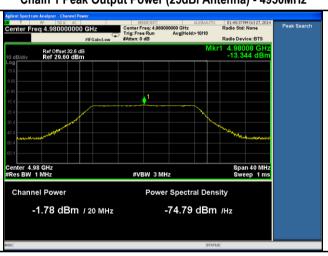
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Peak Output Power Test Plots





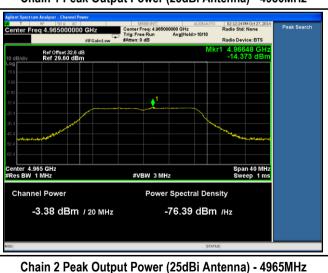
Chain 1 Peak Output Power (25dBi Antenna) - 4950MHz



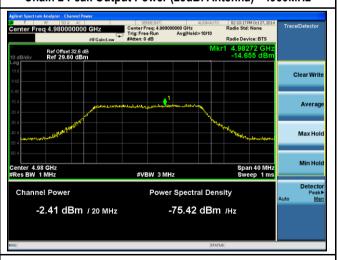
Chain 1 Peak Output Power (25dBi Antenna) - 4965MHz



Chain 1 Peak Output Power (25dBi Antenna) - 4980MHz



Chain 2 Peak Output Power (25dBi Antenna) - 4950MHz



Chain 2 Peak Output Power (25dBi Antenna) - 4980MHz

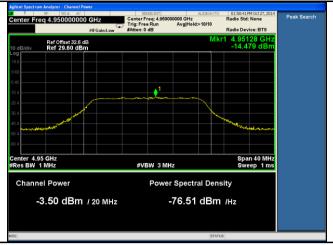
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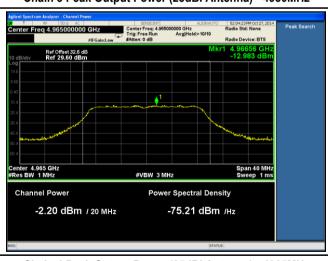


Chain 3 Peak Output Power (25dBi Antenna) - 4950MHz

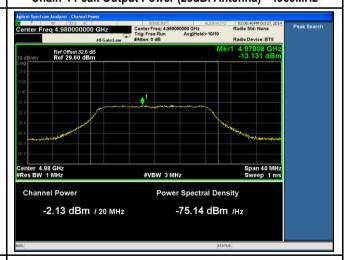
Chain 3 Peak Output Power (25dBi Antenna) - 4965MHz



Chain 3 Peak Output Power (25dBi Antenna) - 4980MHz



Chain 4 Peak Output Power (25dBi Antenna) - 4950MHz



Chain 4 Peak Output Power (25dBi Antenna) - 4965MHz

Chain 4 Peak Output Power (25dBi Antenna) - 4980MHz



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Chain 1 Peak Output Power (0dBi Antenna) - 4950MHz

Chain 1 Peak Output Power (0dBi Antenna) - 4965MHz



Chain 1 Peak Output Power (0dBi Antenna) - 4980MHz



Chain 2 Peak Output Power (0dBi Antenna) - 4950MHz



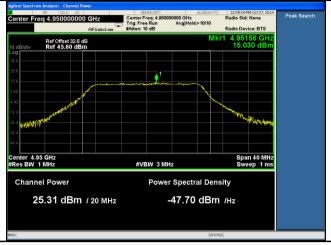
Chain 2 Peak Output Power (0dBi Antenna) - 4965MHz

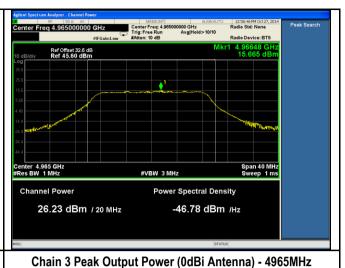
Chain 2 Peak Output Power (0dBi Antenna) - 4980MHz

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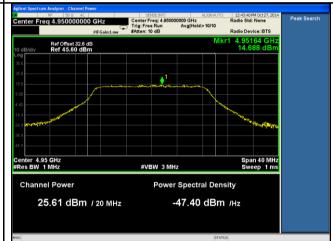
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Chain 3 Peak Output Power (0dBi Antenna) - 4950MHz

Ref Offset 32.6 dB Ref 45.60 dBm

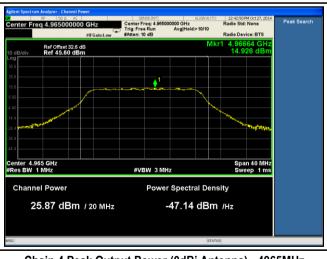


24.44 dBm / 20 MHz -48.58 dBm /Hz

enter 4.98 GHz Res BW 1 MHz

Chain 3 Peak Output Power (0dBi Antenna) - 4980MHz

Power Spectral Density



Chain 4 Peak Output Power (0dBi Antenna) - 4950MHz



Chain 4 Peak Output Power (0dBi Antenna) - 4965MHz

Chain 4 Peak Output Power (0dBi Antenna) - 4980MHz



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10.3 Power Spectral Density

Requirement(s):

Spec	Requirement	Applicable				
FCC §2.1046 FCC §90.1215	High power devices are also limited to a peak power spectral density of 21 dBm per one MHz. If transmitting antennas of directional gain greater than 9 dBi are used, the peak power spectral density should be reduced by the amount in decibels that the directional gain of the antenna exceeds 9 dBi. Low power devices are also limited to a peak power spectral density of 8 dBm per one MHz. Low power devices using channel bandwidths other than those listed above are permitted; nowever, they are limited to a peak power spectral density of 8 dBm/MHz. If transmitting antennas of directional gain greater than 9 dBi are used, the peak power spectral density should be reduced by the amount in decibels that the directional gain of the antenna exceeds 9 dBi.					
Test Setup	Spectrum Analyzer EUT					
Test Procedure	The peak power spectral density is measured as conducted emission by direct connection of a calibrated test instrument to the equipment under test. Measurements are made over a bandwidth of one MHz or the 26 dB emission bandwidth of the device, whichever is less. A resolution bandwidth less than the measurement bandwidth can be used, provided that the measured power is integrated to show total power over the measurement bandwidth.					
Environmental conditions	Temperature (°C) 23 °C Humidity (%) 40% Atmospheric (mbar) 1019 mbar					
Test Date	10/27/2014					
Remark	-					
Result	⊠ Pass ☐ Fail					

Test Data	⊠ Yes	□ N/A
Test Plot		□ N/A





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Low Power Setting - Power Spectral Density measurement results (25dBi Antenna Gain)

Channel	Frequency	Co	PSD				
	hannel (MHz)	Chain 1	Chain 4	Combined Power or Highest Power	Limit (dBm/MHz)	Result	
Low	4950	-16.017	-15.152	-12.55	-8.00	Pass	
Mid	4965	-15.707	-15.051	-12.36	-8.00	Pass	
High	4980	-15.716	-15.037	-12.35	-8.00	Pass	
Note	For low power setting with 25dBi antenna gain, the limit for PSD is reduced by the dB that is exceeding the 9 dBi antenna gain. Reduced PSD Limit = Original PSD Limit – (Antenna Gain – 9 dBi) = -8 dBm/MHz						

Frequency	Co	PSD				
(MHz)	Chain 2	Chain 3	Combined Power or Highest Power	Limit (dBm/MHz)	Result	
4950	-15.14	-17.135	-13.01	-8.00	Pass	
4965	-16.593	-16.147	-13.35	-8.00	Pass	
4980	-16.191	-15.388	-12.76	-8.00	Pass	
For low power setting with 25dBi antenna gain, the limit for PSD is reduced by the dB that is exceeding the 9 dBi antenna gain. Reduced PSD Limit = Original PSD Limit = (Antenna Gain = 9 dBi) = -8 dBm/MHz						
	4950 4965 4980 For low power setting	Frequency (MHz) Chain 2 4950 -15.14 4965 -16.593 4980 -16.191 For low power setting with 25dBi antenna gain, the color of the colo	(MHz) Chain 2 Chain 3 4950 -15.14 -17.135 4965 -16.593 -16.147 4980 -16.191 -15.388 For low power setting with 25dBi antenna gain, the limit for PSD is reduce	Frequency (MHz) Chain 2 Chain 3 Combined Power or Highest Power 4950 -15.14 -17.135 -13.01 4965 -16.593 -16.147 -13.35 4980 -16.191 -15.388 -12.76	Frequency (MHz) Chain 2 Chain 3 Combined Power or Highest Power Limit (dBm/MHz) 4950 -15.14 -17.135 -13.01 -8.00 4965 -16.593 -16.147 -13.35 -8.00 4980 -16.191 -15.388 -12.76 -8.00 For low power setting with 25dBi antenna gain, the limit for PSD is reduced by the dB that is exceeding the 9 dBi antenna	

High Power Setting - Power Spectral Density measurement results (0dBi Antenna Gain)

Channel	Frequency (MHz)	Conducted Power (dBm)			PSD	
		Chain 1	Chain 4	Combined Power or Highest Power	Limit (dBm/MHz)	Result
Low	4950	13.360	12.658	16.03	21.00	Pass
Mid	4965	13.862	12.865	16.40	21.00	Pass
High	4980	13.438	13.025	16.25	21.00	Pass

Channel	Frequency (MHz)	Conducted Power (dBm)			PSD	
		Chain 2	Chain 3	Combined Power or Highest Power	Limit (dBm/MHz)	Result
Low	4950	14.156	12.204	16.30	21.00	Pass
Mid	4965	15.085	13.492	17.37	21.00	Pass
High	4980	15.297	14.368	17.87	21.00	Pass

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