

Company: Model Tested: Report Number: DLS Project: Cambium Networks C024900P021A & C024900P031A 19738 6334

Code of Federal Regulations 47 Part 15 – Radio Frequency Devices

Subpart C – Intentional Radiators Section 15.247 Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz. PART 2 - Sections B7.0 to B12.0

THE FOLLOWING MEETS THE ABOVE TEST SPECIFICATION

Formal Name:	EPMP Station 2.4 GHz OFDM MIMO Radio
Kind of Equipment:	Point-to-Point or Point-to-Multipoint Digital Transmission Transceiver
Frequency Range: Please see the Users' l	2412 to 2462 MHz (20 MHz bandwidth) 2427 to 2452 MHz (40 MHz bandwidth) Manual for the channel specifications for use with the Dish antenna.
Test Configuration:	Stand-alone
Model Number(s):	Connectorized: C024900P021A, C024900A021A Integrated: C024900P031A, C024900C031A
Model(s) Tested:	Connectorized: C024900P021A Integrated: C024900P031A
Serial Number(s):	Connectorized: MAC Address: 000456C2CE92 Integrated: MAC Address: 000456C2CE05
Date of Tests:	January to March, 2014 (non-consecutive days)
Test Conducted For:	Cambium Networks 3800 Golf Road, Suite 360 Rolling Meadows, IL 60008, USA

NOTICE: "This test report relates only to the items tested and must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government". Please see the "Description of Test Sample" page listed inside of this report.

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SIGNATURE PAGE

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Brian Mattson General Manager



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Company: Model Tested: Report Number: DLS Project:

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ВЭ. R5	0a – with Omni Antenna 20MHz Channel BW	98 00
DJ		



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Appendix B – Measurement Data

B7.0 Maximum Ur	nwanted Emission Levels into Restricted Frequency Bands - Radiated
Rule Section:	FCC 15.205
Test Procedure:	FCC KDB 558074 D01 DTS Meas Guidance v03r01 – Guidance for Performing Gompliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247
	12.0 Emissions in restricted frequency bands 12.1 Radiated emission measurements
Description :	This test applies to harmonics/spurs that fall in the restricted bands listed in Section 15.205.
	Measurements were taken for OFDM MCS15 with 20 MHz and 40 MHz channel bandwidths at the low, middle and high channels of operation. EUT was set to transmit continuously with a 100% duty cycle.
Limit:	FCC Part 15.209
Results:	Passed
Note:	Tested with the 12 dBi integral Patch antenna. Both transmit chains were active at maximum power during this test. The Ethernet cable was unplugged from the remote computer in order to pass radiated emissions below 1 GHz.

FCC Part 15.209 Class B

Electric Field Strength

EUT:	Cambium Networks
Manufacturer:	EPMP 2.4 GHz STA with 12 dBi Integral antenna
Operating Condition:	66 deg. F; 17% R.H.
Test Site:	DLS O.F. Site 2
Operator:	Craig B
Test Specification:	Low, Mid, & High channels
Comment:	Continuous Tx 20 & 40 MHz channel BW's; Power setting 27
	Date: 01-28-2014

TEXT: "Horz 3 meters"

Short Descrip	otion:	Test Set-up
Test Set-up:	EUT Meas	ured at 3 Meters with HORIZONTAL Antenna Polarization
Equations:	Total Le	vel(dBµV/m) = Level(dBµV) + System Loss(dB) + Antenna Factor(dBµV/m)
	Margin(d)	B) = Limit($dB\mu V/m$) - Total Level($dB\mu V/m$)
Graph Markers:	+]	Frequency marker (Level of marker not related to final level)
	1	Final maximized level using Quasi-Peak detector
	X	Final maximized level using Average dector
	# 1	Final maximized level using Peak detector



MEASUREMENT RESULT: "A1274_F1H_Final"

1/28/2014 1:4	46PM									
Frequency	Level	Antenna Factor	System Loss	Total Level	Limit	Margin	Height Ant.	EuT Angle	Final Detector	Comme
MHz	dBµV	dBµV/m	dB	dBµV/m	dBµV/m	dB	m	deg		
115.025000	33.01	12.31	-23.0	22.3	43.5	21.2	3.00	80	QUASI-PEAK	None
255.400000	28.84	12.72	-22.0	19.5	46.0	26.5	1.00	90	QUASI-PEAK	None
330.00000	23.85	14.60	-21.6	16.8	46.0	29.2	1.20	90	QUASI-PEAK	None

EuT Final Comment

FCC Part 15.209 Class B

Electric Field Strength

EUT:	Cambium Networks
Manufacturer:	EPMP 2.4 GHz STA with 12 dBi Integral antenna
Operating Condition:	66 deg. F; 17% R.H.
Test Site:	DLS O.F. Site 2
Operator:	Craig B
Test Specification:	Low, Mid, & High channels
Comment:	Continuous Tx 20 & 40 MHz channel BW's; Power setting 27
	Date: 01-28-2014

TEXT: "Vert 3 meters"

Short Description: Test Set-up

Test Set-up: EUT Measured at 3 Meters with VERTICAL Antenna Polarization

Sample Equations: Total Level(dB μ V/m) = Level(dB μ V) + System Loss(dB) + Antenna Factor(dB μ V/m) 24.6 = 35.51 + (-22.1) + 11.20 Margin(dB) = Limit(dB μ V/m) - Total Level(dB μ V/m) 15.4 = 40 - 24.6

- Graph Markers: + Frequency marker (Level of marker not related to final level)
 - Final maximized level using Quasi-Peak detector
 - X Final maximized level using Average dector
 - # Final maximized level using Peak detector



MEASUREMENT RESULT: "A1274_F1V_Final"

1/28/2014 1:17PM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
		Factor	Loss	Level			Ant.	Angle	Detector	
MHz	dBµV	dBµV/m	dB	dBµV/m	dBµV/m	dB	m	deg		
36.305000	44.05	11.50	-24.1	31.4	40.0	8.6	1.00	0	QUASI-PEAK	None
30.130000	43.99	11.46	-24.3	31.2	40.0	8.8	1.00	0	QUASI-PEAK	None
49.275000	41.30	11.80	-23.9	29.2	40.0	10.8	1.00	225	QUASI-PEAK	None
84.000000	42.23	6.80	-23.4	25.6	40.0	14.4	1.00	170	QUASI-PEAK	None
115.405000	34.04	12.38	-23.0	23.4	43.5	20.1	1.00	225	QUASI-PEAK	None
198.595000	26.18	17.54	-22.5	21.2	43.5	22.3	1.00	170	QUASI-PEAK	None
203.110000	29.87	12.01	-22.5	19.4	43.5	24.1	1.00	150	QUASI-PEAK	None
239.980000	30.71	12.00	-22.0	20.7	46.0	25.3	1.00	225	QUASI-PEAK	None
296.420000	27.35	14.19	-21.8	19.8	46.0	26.2	1.00	100	QUASI-PEAK	None

Test Date:	01-29-2014					
Company:	Cambium Networks					
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05					
Test:	Maximum Unwanted Emissi	ion Levels - <mark>RADIATED</mark>				
Operator:	Craig B					
Comment:	RBW = 1 MHz	VBW = 3 MHz				
	Detector = Peak	Sweep = Auto Couple				
	Trace = Max Hold	Low Channel Transmit = 2412 MHz				
	POINT-TO-POINT & POIN	T-TO-MULTIPOINT OPERATION				
	Output Power Setting 15	Channel bandwidth: 20 MHz				
	Both output chains active	OFDM MCS15				
	Emission Level Measurement					
	Peak limit: 74 dBµV/m at 3	meters				
	Frequency Range: 1 – 4.5 G	Hz				



01-29-2014					
Cambium Networks					
EPMP 2.4 GHz STA MAC: 000456C2CE05					
Maximum Unwanted Emissi	on Levels - <mark>RADIATED</mark>				
Craig B					
RBW = 1 MHz	VBW = 3 MHz				
Detector = Average	Sweep = Auto Couple				
Trace = Max Hold	Low Channel Transmit = 2412 MHz				
POINT-TO-POINT & POIN	T-TO-MULTIPOINT OPERATION				
Output Power Setting 15	Channel bandwidth: 20 MHz				
Both output chains active	OFDM MCS15				
Emission Level Measurement					
Average limit: 54 dBµV/m a	t 3 meters				
Frequency Range: 1 – 4.5 GI	Hz				
	01-29-2014 Cambium Networks EPMP 2.4 GHz STA MAC: Maximum Unwanted Emissi Craig B RBW = 1 MHz Detector = Average Trace = Max Hold POINT-TO-POINT & POIN Output Power Setting 15 Both output chains active Emission Level Measurement Average limit: 54 dBµV/m a Frequency Range: 1 – 4.5 GH				



Test Date:	01-29-2014					
Company:	Cambium Networks					
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05					
Test:	Maximum Unwanted Emiss	sion Levels - RADIATED				
Operator:	Craig B					
Comment:	RBW = 1 MHz	VBW = 3 MHz				
	Detector = Peak	Sweep = Auto Couple				
	Trace = Max Hold	Low Channel Transmit = 2412 MHz				
	POINT-TO-POINT & POIN	POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION				
	Output Power Setting 15	Channel bandwidth: 20 MHz				
	Both output chains active	OFDM MCS15				
	Emission Level Measurement					
	Peak limit: 74 dBµV/m at 3 meters					
	Frequency Range: 1 – 4.5 GHz					



01-29-2014		
Cambium Networks		
EPMP 2.4 GHz STA MAC: 000456C2CE05		
Maximum Unwanted Emission Levels - RADIATED		
Craig B		
RBW = 1 MHz	VBW = 3 MHz	
Detector = Average	Sweep = Auto Couple	
Trace = Max Hold	Low Channel Transmit = 2412 MHz	
POINT-TO-POINT & POINT-TO-MULTIPOINT OPERA		
Output Power Setting 15	Channel bandwidth: 20 MHz	
Both output chains active	OFDM MCS15	
Emission Level Measurement		
Average limit: 54 dBµV/m at 3 meters		
Frequency Range: 1 – 4.5 GHz		
	01-29-2014 Cambium Networks EPMP 2.4 GHz STA MAC Maximum Unwanted Emissi Craig B RBW = 1 MHz Detector = Average Trace = Max Hold POINT-TO-POINT & POIN Output Power Setting 15 Both output chains active Emission Level Measurement Average limit: 54 dBµV/m a Frequency Range: 1 – 4.5 GI	



01-29-2014		
Cambium Networks		
EPMP 2.4 GHz STA MAC: 000456C2CE05		
Maximum Unwanted Emission Levels - RADIATED		
Craig B		
RBW = 1 MHz	VBW = 3 MHz	
Detector = Peak	Sweep = Auto Couple	
Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
POINT-TO-POINT OPERATION		
Output Power Setting 27	Channel bandwidth: 20 MHz	
Both output chains active	OFDM MCS15	
Emission Level Measurement		
Peak limit: 74 dBµV/m at 3 meters		
Frequency Range: 1 – 4.5 GHz		
	01-29-2014 Cambium Networks EPMP 2.4 GHz STA MAC Maximum Unwanted Emissi Craig B RBW = 1 MHz Detector = Peak Trace = Max Hold POINT-TO-POINT OPERA Output Power Setting 27 Both output chains active Emission Level Measureme Peak limit: 74 dBµV/m at 3 Frequency Range: 1 – 4.5 G	



Test Date:	01-29-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05	
Test:	Maximum Unwanted Emission Levels - RADIATED	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz
	POINT-TO-POINT OPERATION	
	Output Power Setting 27	Channel bandwidth: 20 MHz
	Both output chains active	OFDM MCS15
	Emission Level Measurement	
	Average limit: 54 dBµV/m	at 3 meters



Test Date:	01-29-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05		
Test:	Maximum Unwanted Emission Levels - RADIATED		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	POINT-TO-POINT OPERATION		
	Output Power Setting 27	Channel bandwidth: 20 MHz	
	Both output chains active	OFDM MCS15	
	Emission Level Measurement		
	Peak limit: 74 dBµV/m at 3 meters		
	Frequency Range: 1 – 4.5 GHz		



Test Date:	01-29-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05	
Test:	Maximum Unwanted Emission Levels - RADIATED	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz
	POINT-TO-POINT OPERATION	
	Output Power Setting 27	Channel bandwidth: 20 MHz
	Both output chains active	OFDM MCS15
	Emission Level Measurement	
	Average limit: 54 dBµV/m at 3 meters	



Test Date:	01-29-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05		
Test:	Maximum Unwanted Emiss	Maximum Unwanted Emission Levels - RADIATED	
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 24.5	Channel bandwidth: 20 MHz	
	Both output chains active	OFDM MCS15	
	Emission Level Measurement		
	Peak limit: 74 dBµV/m at 3 meters		
	Frequency Range: 1 – 4.5 GHz		



Test Date:	01-29-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05	
Test:	Maximum Unwanted Emissi	ion Levels - <mark>RADIATED</mark>
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 24.5	Channel bandwidth: 20 MHz
	Both output chains active	OFDM MCS15
	Emission Level Measurement	
	Average limit: 54 dBµV/m at 3 meters	



Test Date:	01-29-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05			
Test:	Maximum Unwanted Emiss	ion Levels - <mark>RADIATED</mark>		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak	Sweep = Auto Couple		
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz		
	POINT-TO-MULTIPOINT OPERATION			
	Output Power Setting 24.5	Channel bandwidth: 20 MHz		
	Both output chains active	OFDM MCS15		
	Emission Level Measurement			
	Peak limit: 74 dBµV/m at 3 meters			
	Frequency Range: 1 – 4.5 GHz			



Test Date:	01-29-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05	
Test:	Maximum Unwanted Emissi	ion Levels - <mark>RADIATED</mark>
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 24.5	Channel bandwidth: 20 MHz
	Both output chains active	OFDM MCS15
	Emission Level Measurement	
	Average limit: 54 dBµV/m at 3 meters	



Test Date:	01-24-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05			
Test:	Maximum Unwanted Emiss	ion Levels - RADIATED		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak	Sweep = Auto Couple		
	Trace = Max Hold	High Channel Transmit = 2462 MHz		
	POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION			
	Output Power Setting 17	Channel bandwidth: 20 MHz		
	Both output chains active	OFDM MCS15		
	Emission Level Measurement			
	Peak limit: 74 dBµV/m at 3 meters			
	Frequency Range: 1 – 4.5 GHz			



Test Date:	01-24-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05		
Test:	Maximum Unwanted Emission Levels - RADIATED		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	High Channel Transmit = 2462 MHz	
	POINT-TO-POINT & POINT-TO-MULTIPOINT OPERA Output Power Setting 17 Channel bandwidth: 20 MHz		
	Both output chains active	OFDM MCS15	
	Emission Level Measurement		
	Average limit: 54 dBµV/m at 3 meters		
	Frequency Range: 1 – 4.5 GHz		



Test Date:	01-24-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05			
Test:	Maximum Unwanted Emiss	ion Levels - RADIATED		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak	Sweep = Auto Couple		
	Trace = Max Hold	High Channel Transmit = 2462 MHz		
	POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION			
	Output Power Setting 17	Channel bandwidth: 20 MHz		
	Both output chains active	OFDM MCS15		
	Emission Level Measurement			
	Peak limit: 74 dBµV/m at 3 meters			
	Frequency Range: 1 – 4.5 GHz			



Test Date:	01-24-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05		
Test:	Maximum Unwanted Emission Levels - RADIATED		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	High Channel Transmit = 2462 MHz	
	POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 17	Channel bandwidth: 20 MHz	
	Both output chains active	OFDM MCS15	
	Emission Level Measurement		
	Average limit: 54 dBµV/m at 3 meters		
	Frequency Range: 1 – 4.5 GHz		



Test Date:	01-29-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05		
Test:	Maximum Unwanted Emission Levels - RADIATED		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Low Channel Transmit = 2427 MHz	
	POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 12.5	Channel bandwidth: 40 MHz	
	Both output chains active	OFDM MCS15	
	Emission Level Measurement		
	Peak limit: 74 dBµV/m at 3 meters		
	Frequency Range: 1 – 4.5 GHz		



Test Date:	01-29-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05		
Test:	Maximum Unwanted Emission Levels - RADIATED		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	Low Channel Transmit = 2427 MHz	
	POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 12.5	Channel bandwidth: 40 MHz	
	Both output chains active	OFDM MCS15	
	Emission Level Measurement		
	Average limit: 54 dBµV/m at 3 meters		
	Frequency Range: 1 – 4.5 GHz		



Date: 2

29.JAN.2014 11:26:56

Test Date:	01-29-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05		
Test:	Maximum Unwanted Emission Levels - RADIATED		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Low Channel Transmit = 2427 MHz	
	POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 12.5	Channel bandwidth: 40 MHz	
	Both output chains active	OFDM MCS15	
	Emission Level Measurement		
	Peak limit: 74 dBµV/m at 3 meters		
	Frequency Range: 1 – 4.5 GHz		



Test Date:	01-29-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05		
Test:	Maximum Unwanted Emission Levels - RADIATED		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	Low Channel Transmit = 2427 MHz	
	POINT-TO-POINT & POINT-TO-MULTIPOI		
	Output Power Setting 12.5	Channel bandwidth: 40 MHz	
	Both output chains active	OFDM MCS15	
	Emission Level Measurement		
	Average limit: 54 dBµV/m at 3 meters		
	Frequency Range: 1 – 4.5 GHz		



Test Date:	01-29-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05		
Test:	Maximum Unwanted Emission Levels - RADIATED		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	POINT-TO-POINT 7 POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 17	Channel bandwidth: 40 MHz	
	Both output chains active	OFDM MCS15	
	Emission Level Measurement		
	Peak limit: 74 dBµV/m at 3 meters		
	Frequency Range: 1 – 4.5 GHz		



Test Date:	01-29-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05		
Test:	Maximum Unwanted Emission Levels - RADIATED		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	POINT-TO-POINT 7 POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 17	Channel bandwidth: 40 MHz	
	Both output chains active	OFDM MCS15	
	Emission Level Measurement		
	Average limit: 54 dBµV/m a	t 3 meters	



Test Date:	01-29-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05		
Test:	Maximum Unwanted Emission Levels - RADIATED		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 17	Channel bandwidth: 40 MHz	
	Both output chains active	OFDM MCS15	
	Emission Level Measurement		
	Peak limit: 74 dBµV/m at 3 meters		
	Frequency Range: 1 – 4.5 GHz		



Test Date:	01-29-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05		
Test:	Maximum Unwanted Emission Levels - RADIATED		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 17	Channel bandwidth: 40 MHz	
	Both output chains active	OFDM MCS15	
	Emission Level Measurement		
	Average limit: 54 dBµV/m a	t 3 meters	



Test Date:	01-24-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05		
Test:	Maximum Unwanted Emission Levels - RADIATED		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	High Channel Transmit = 2452 MHz	
	POINT-TO-POINT & POINT-TO-MULTIPOINT OP		
	Output Power Setting 13.5	Channel bandwidth: 40 MHz	
	Both output chains active	OFDM MCS15	
	Emission Level Measurement		
	Peak limit: 74 dBµV/m at 3 meters		
Frequency Range: 1 – 4.5 GHz		Hz	


01-24-2014		
Cambium Networks		
EPMP 2.4 GHz STA MAC: 000456C2CE05		
Maximum Unwanted Emission Levels - RADIATED		
Craig B		
RBW = 1 MHz	VBW = 3 MHz	
Detector = Average	Sweep = Auto Couple	
Trace = Max Hold	High Channel Transmit = 2452 MHz	
POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION		
Output Power Setting 13.5	Channel bandwidth: 40 MHz	
Both output chains active	OFDM MCS15	
Emission Level Measurement		
Average limit: 54 dB μ V/m at 3 meters		
Frequency Range: 1 – 4.5 GHz		
	01-24-2014 Cambium Networks EPMP 2.4 GHz STA MAC: Maximum Unwanted Emissi Craig B RBW = 1 MHz Detector = Average Trace = Max Hold POINT-TO-POINT & POIN Output Power Setting 13.5 Both output chains active Emission Level Measurement Average limit: 54 dBµV/m a Frequency Range: 1 – 4.5 GH	



Test Date:	01-24-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05		
Test:	Maximum Unwanted Emission Levels - RADIATED		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	High Channel Transmit = 2452 MHz	
	POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 13.5	Channel bandwidth: 40 MHz	
	Both output chains active	OFDM MCS15	
	Emission Level Measurement		
	Peak limit: 74 dBµV/m at 3 meters		
	Frequency Range: 1 – 4.5 GHz		



Test Date:	01-24-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C2CE05		
Test:	Maximum Unwanted Emission Levels - RADIATED		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	High Channel Transmit = 2452 MHz	
	POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 13.5	Channel bandwidth: 40 MHz	
	Both output chains active	OFDM MCS15	
	Emission Level Measurement		
	Average limit: 54 dB μ V/m at 3 meters		
	Frequency Range: 1 – 4.5 GHz		



Maximum Unwanted Emission Levels into Restricted Frequency Bands -Radiated

with 12 dBi Integral Patch Antenna

No measurable emissions were detected from the EUT from 4.5 to 25 GHz.

Software power setting 27



166 South Carter, Genoa City, WI 53128

Company: Model Tested: Report Number: DLS Project: Cambium Networks C024900P021A & C024900P031A 19738 6334

Appendix B – Measurement Data

- **B8.0** Conducted Measurements for Radiated Restricted Band-Edge Compliance for Sector, Panel, and Dish antennas
- Rule Section:FCC 15.205
- Test Procedure:FCC KDB 558074 D01 DTS Meas Guidance v03r01 Guidance for Performing
Compliance Measurements on Digital Transmission Systems (DTS) Operating
Under §15.247
 - 12.1 Emissions in restricted frequency bands12.2.2 General Procedure for conducted measurements in restricted bands

Description: Measure the conducted output power (in dBm) using the detector specified (section 12.2.4 used for peak, and 12.2.5.1 used for average).

Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level.

For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (*e.g.*, Watts, mW).

Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

E = EIRP - 20log D + 104.8where:

 $E = electric field strength in dB\mu V/m$,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

Compare the resultant electric field strength level to the applicable limit.

Limit:	Average Limit = 54dBuV/m @ 3 meters Peak Limit = 74dBuV/m @ 3 meters
Results:	Passed
Notes:	Measurements were taken for OFDM MCS15 with 20 MHz and 40 MHz channel bandwidths at the low, middle and high channels of operation. EUT was set to transmit continuously with a 100% duty cycle.

Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	Receiver detector bandwidth 120 kHz	
	Low Channel Transmit = 2412 MHz	
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 18 Antenna gain: 8 dBi	
Channel bandwidth: 20 MHz		
	Output port: 1 OFDM MCS15	
	Conducted limits:	
	$30-88$ MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna	
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground	
	reflection = -70.96 dBm	
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m}) = -67.46 \text{ dBm}$	
	216-960 MHz (46 dB μ V/m): = -64.96 dBm	
	960-1000 MHz (54 dB μ V/m): = -56.96 dBm	



Test Date:	03-11-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC	2: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	Low Channel Transmit = 2412 MHz	
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 18	Antenna gain: 8 dBi	
	Channel bandwidth: 20 MHz		
	Output port: 1	OFDM MCS15	
	Average limit = 54 dB μ V/m at 3 meters		
	Conducted limit		
	$= 54 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -52.26 dBm		



Test Date:	03-11-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAG	C: 000456C69680
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Peak	Sweep = Auto Couple
	Trace = Max Hold	Low Channel Transmit = 2412 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 18	Antenna gain: 8 dBi
	Channel bandwidth: 20 MH	Z
	Output port: 1	OFDM MCS15
	Peak limit = 74 dB μ V/m at 3 meters	
	Conducted limit	
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -32.26 dBm	



Test Date:	03-07-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC	C: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	Low Channel Transmit = 2412 MHz	
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 18	Antenna gain: 8 dBi	
	Channel bandwidth: 20 MH	Z	
	Output port: 1	OFDM MCS15	
	Average limit = $54 \text{ dB}\mu\text{V/m}$ at 3 meters		
	Conducted limit		
	$= 54 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -52.26 dBm		



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAG	C: 000456C69680
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Peak	Sweep = Auto Couple
	Trace = Max Hold	Low Channel Transmit = 2412 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 18	Antenna gain: 8 dBi
	Channel bandwidth: 20 MH	Z
	Output port: 1	OFDM MCS15
	Peak limit = 74 dB μ V/m at 3 meters	
	Conducted limit	
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -32.26 dBm	



Test Date:	03-07-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC	C: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	Low Channel Transmit = 2412 MHz	
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 18	Antenna gain: 8 dBi	
	Channel bandwidth: 20 MH	Z	
	Output port: 1	OFDM MCS15	
	Average limit = $54 \text{ dB}\mu\text{V/m}$ at 3 meters		
	Conducted limit		
	$= 54 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -52.26 dBm		



Test Date:	03-07-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted	
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Low Channel Transmit = 2412 MHz	
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 18	Antenna gain: 8 dBi	
	Channel bandwidth: 20 MHz		
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit		
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -32.26 dBm	- 、	



Test Date:	03-07-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC	C: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	Low Channel Transmit = 2412 MHz	
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 18	Antenna gain: 8 dBi	
	Channel bandwidth: 20 MH	Z	
	Output port: 1	OFDM MCS15	
	Average limit = $54 \text{ dB}\mu\text{V/m}$ at 3 meters		
	Conducted limit		
	$= 54 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -52.26 dBm		



Test Date:	03-07-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Low Channel Transmit = 2412 MHz	
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 18	Antenna gain: 8 dBi	
	Channel bandwidth: 20 MHz		
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit		
	$= 74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -32.26 dBm	- 、	



Test Date:	03-07-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	Receiver detector bandwidth 120 kHz		
	Mid Channel Transmit = 2437 MHz		
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 26.5 Antenna gain: 8 dBi		
	Channel bandwidth: 20 MHz		
	Output port: 1 OFDM MCS15		
	Conducted limits:		
	$30-88$ MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna		
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground		
	reflection = -70.96 dBm		
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m})$: = -67.46 dBm		
	216-960 MHz (46 dB μ V/m): = -64.96 dBm		
	960-1000 MHz (54 dB μ V/m): = -56.96 dBm		



Test Date:	03-11-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz
	POINT-TO-MULTIPOINT	OPERATION
	Output Power Setting 26.5	Antenna gain: 8 dBi
	Channel bandwidth: 20 MHz	Z
	Output port: 1	OFDM MCS15
	Average limit = 54 dB μ V/m at 3 meters	
	Conducted limit	
	$= 54 + 20\log(3 \text{ meters}) - 10$	4.8 – 8 dBi antenna gain – 3 dB (MIMO
	operation) = -52.26 dBm	



Test Date:	03-11-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted	
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 26.5	Antenna gain: 8 dBi	
	Channel bandwidth: 20 MHz	Z	
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit		
	$= 74 + 20\log(3 \text{ meters}) - 10$	4.8 – 8 dBi antenna gain – 3 dB (MIMO	
	operation) = -32.26 dBm		



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz
	POINT-TO-MULTIPOINT	OPERATION
	Output Power Setting 26.5	Antenna gain: 8 dBi
	Channel bandwidth: 20 MHz	Z
	Output port: 1	OFDM MCS15
	Average limit = 54 dB μ V/m at 3 meters	
	Conducted limit	
	$= 54 + 20\log(3 \text{ meters}) - 10$	4.8 – 8 dBi antenna gain – 3 dB (MIMO
	operation) = -52.26 dBm	- ``



Test Date:	03-07-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 26.5	Antenna gain: 8 dBi	
	Channel bandwidth: 20 MHz		
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit		
	$= 74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -32.26 dBm	-	



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz
	POINT-TO-MULTIPOINT	OPERATION
	Output Power Setting 26.5	Antenna gain: 8 dBi
	Channel bandwidth: 20 MHz	2
	Output port: 1	OFDM MCS15
	Average limit = $54 \text{ dB}\mu\text{V/m}$ at 3 meters	
	Conducted limit	
	$= 54 + 20\log(3 \text{ meters}) - 10$	4.8 – 8 dBi antenna gain – 3 dB (MIMO
	operation) = -52.26 dBm	



Test Date:	03-07-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 26.5	Antenna gain: 8 dBi	
	Channel bandwidth: 20 MHz		
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit		
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -32.26 dBm	2	



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz
	POINT-TO-MULTIPOINT	OPERATION
	Output Power Setting 26.5	Antenna gain: 8 dBi
	Channel bandwidth: 20 MHz	Z
	Output port: 1	OFDM MCS15
	Average limit = 54 dB μ V/m at 3 meters	
	Conducted limit	
	$= 54 + 20\log(3 \text{ meters}) - 10$	4.8 – 8 dBi antenna gain – 3 dB (MIMO
	operation) = -52.26 dBm	- ``



Test Date:	03-07-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 26.5	Antenna gain: 8 dBi	
	Channel bandwidth: 20 MHz		
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit		
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -32.26 dBm	- ``	



Test Date:	03-07-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	Receiver detector bandwidth 120 kHz		
	High Channel Transmit = 2462 MHz		
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 18 Antenna gain: 8 dBi		
	Channel bandwidth: 20 MHz		
	Output port: 1 OFDM MCS15		
	Conducted limits:		
	$30-88$ MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna		
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground		
	reflection = -70.96 dBm		
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m}) = -67.46 \text{ dBm}$		
	216-960 MHz (46 dB μ V/m): = -64.96 dBm		
	960-1000 MHz (54 $dB\mu V/m$): = -56.96 dBm		



Test Date:	03-11-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	High Channel Transmit = 2462 MHz	
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 18	Antenna gain: 8 dBi	
	Channel bandwidth: 20 MHz		
	Output port: 1	OFDM MCS15	
	Average limit = 54 dB μ V/m at 3 meters		
	Conducted limit		
	$= 54 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -52.26 dBm		



Test Date:	03-11-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAG	C: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	High Channel Transmit = 2462 MHz	
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 18	Antenna gain: 8 dBi	
	Channel bandwidth: 20 MH	Iz	
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit		
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -32.26 dBm		



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAG	C: 000456C69680
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	High Channel Transmit = 2462 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 18	Antenna gain: 8 dBi
	Channel bandwidth: 20 MH	Z
	Output port: 1	OFDM MCS15
	Average limit = 54 dB μ V/m at 3 meters	
	Conducted limit	
	$= 54 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -52.26 dBm	



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	C: 000456C69680
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Peak	Sweep = Auto Couple
	Trace = Max Hold	High Channel Transmit = 2462 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 18	Antenna gain: 8 dBi
	Channel bandwidth: 20 MH	Z
	Output port: 1	OFDM MCS15
	Peak limit = 74 dB μ V/m at 3 meters	
	Conducted limit	
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -32.26 dBm	





Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAG	C: 000456C69680
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	High Channel Transmit = 2462 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 18	Antenna gain: 8 dBi
	Channel bandwidth: 20 MH	Z
	Output port: 1	OFDM MCS15
	Average limit = 54 dB μ V/m at 3 meters	
	Conducted limit	
	$= 54 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -52.26 dBm	_ ``



Test Date:	03-07-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC	C: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	High Channel Transmit = 2462 MHz	
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 18	Antenna gain: 8 dBi	
	Channel bandwidth: 20 MH	Z	
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit		
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -32.26 dBm	e x	



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAG	C: 000456C69680
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	High Channel Transmit = 2462 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 18	Antenna gain: 8 dBi
	Channel bandwidth: 20 MH	Z
	Output port: 1	OFDM MCS15
	Average limit = 54 dB μ V/m at 3 meters	
	Conducted limit	
	$= 54 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -52.26 dBm	_ ``



Test Date:	03-07-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted	
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	High Channel Transmit = 2462 MHz	
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 18	Antenna gain: 8 dBi	
	Channel bandwidth: 20 MHz		
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit		
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -32.26 dBm	e x	



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	Receiver detector bandwidth 120 kHz	
	Low Channel Transmit = 2427 MHz	
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5 Antenna gain: 8 dBi	
	Channel bandwidth: 40 MHz	
	Output port: 1 OFDM MCS15	
	Conducted limits:	
	$30-88$ MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna	
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground	
	reflection = -70.96 dBm	
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m}) = -67.46 \text{ dBm}$	
	216-960 MHz (46 dB μ V/m): = -64.96 dBm	
	960-1000 MHz (54 $dB\mu V/m$): = -56.96 dBm	

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Date:



Test Date:	03-11-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	: 000456C69680
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	Low Channel Transmit = 2427 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	Z
	Output port: 1	OFDM MCS15
	Average limit = 54 dB μ V/m at 3 meters	
	Conducted limit	
	$= 54 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -52.26 dBm	



Test Date:	03-11-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	: 000456C69680
Test:	Unwanted Emission Levels	n Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Peak	Sweep = Auto Couple
	Trace = Max Hold	Low Channel Transmit = 2427 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	Z
	Output port: 1	OFDM MCS15
	Peak limit = 74 dB μ V/m at 3 meters	
	Conducted limit	
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -32.26 dBm	





Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	: 000456C69680
Test:	Unwanted Emission Levels	n Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	Low Channel Transmit = 2427 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	2
	Output port: 1	OFDM MCS15
	Average limit = $54 \text{ dB}\mu\text{V/m}$ at 3 meters	
	Conducted limit	
	$= 54 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -52.26 dBm	


Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Peak	Sweep = Auto Couple
	Trace = Max Hold	Low Channel Transmit = 2427 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	
	Output port: 1	OFDM MCS15
	Peak limit = 74 dB μ V/m at 3 meters	
	Conducted limit	
	$= 74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -32.26 dBm	-



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	: 000456C69680
Test:	Unwanted Emission Levels	n Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	Low Channel Transmit = 2427 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	2
	Output port: 1	OFDM MCS15
	Average limit = $54 \text{ dB}\mu\text{V/m}$ at 3 meters	
	Conducted limit	
	$= 54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -52.26 dBm	



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Peak	Sweep = Auto Couple
	Trace = Max Hold	Low Channel Transmit = 2427 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	
	Output port: 1	OFDM MCS15
	Peak limit = 74 dB μ V/m at 3 meters	
	Conducted limit	
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -32.26 dBm	- 、



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	: 000456C69680
Test:	Unwanted Emission Levels	n Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	Low Channel Transmit = 2427 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	2
	Output port: 1	OFDM MCS15
	Average limit = $54 \text{ dB}\mu\text{V/m}$ at 3 meters	
	Conducted limit	
	$= 54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -52.26 dBm	



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Peak	Sweep = Auto Couple
	Trace = Max Hold	Low Channel Transmit = 2427 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	
	Output port: 1	OFDM MCS15
	Peak limit = 74 dB μ V/m at 3 meters	
	Conducted limit	
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -32.26 dBm	- 、



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	Receiver detector bandwidth 120 kHz	
	Mid Channel Transmit = 2437 MHz	
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 18 Antenna gain: 8 dBi	
	Channel bandwidth: 40 MHz	
	Output port: 1 OFDM MCS15	
	Conducted limits:	
	$30-88$ MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna	
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground	
	reflection = -70.96 dBm	
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m})$: = -67.46 dBm	
	216-960 MHz (46 dB μ V/m): = -64.96 dBm	
	960-1000 MHz (54 dB μ V/m): = -56.96 dBm	

Frequency range: 30 – 1000 MHz



Test Date:	03-11-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAG	C: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 18	Antenna gain: 8 dBi
	Channel bandwidth: 40 MH	[z
	Output port: 1	OFDM MCS15
	Average limit = 54 dB μ V/m at 3 meters	
	Conducted limit	
	$= 54 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -52.26 dBm	





Test Date:	03-11-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Peak	Sweep = Auto Couple
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 18	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	
	Output port: 1	OFDM MCS15
	Peak limit = 74 dB μ V/m at 3 meters	
	Conducted limit	
	$= 74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -32.26 dBm	



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	C: 000456C69680
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 18	Antenna gain: 8 dBi
	Channel bandwidth: 40 MH	Z
	Output port: 1	OFDM MCS15
	Average limit = 54 dB μ V/m at 3 meters	
	Conducted limit	
	$= 54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -52.26 dBm	



Test Date:	03-07-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	POINT-TO-MULTIPOINT OPERATION		
	Output Power Setting 18	Antenna gain: 8 dBi	
	Channel bandwidth: 40 MHz		
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit		
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -32.26 dBm	e x	



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	C: 000456C69680
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 18	Antenna gain: 8 dBi
	Channel bandwidth: 40 MH	Z
	Output port: 1	OFDM MCS15
	Average limit = 54 dB μ V/m at 3 meters	
	Conducted limit	
	$= 54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -52.26 dBm	



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels	in Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Peak	Sweep = Auto Couple
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 18	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	
	Output port: 1	OFDM MCS15
	Peak limit = 74 dB μ V/m at 3 meters	
	Conducted limit	
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -32.26 dBm	



Test Date:	03-07-2014	
Company:	Cambium Networks	
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Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 18	Antenna gain: 8 dBi
	Channel bandwidth: 40 MH	Z
	Output port: 1	OFDM MCS15
	Average limit = 54 dB μ V/m at 3 meters	
	Conducted limit	
	$= 54 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -52.26 dBm	



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	C: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Peak	Sweep = Auto Couple
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 18	Antenna gain: 8 dBi
	Channel bandwidth: 40 MH	Z
	Output port: 1	OFDM MCS15
	Peak limit = 74 dB μ V/m at 3 meters	
	Conducted limit	
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -32.26 dBm	e



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	Receiver detector bandwidth 120 kHz	
	High Channel Transmit = 2452 MHz	
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5 Antenna gain: 8 dBi	
	Channel bandwidth: 40 MHz	
	Output port: 1 OFDM MCS15	
	Conducted limits:	
	$30-88$ MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna	
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground	
	reflection = -70.96 dBm	
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m}) = -67.46 \text{ dBm}$	
	216-960 MHz (46 dB μ V/m): = -64.96 dBm	
	960-1000 MHz (54 $dB\mu V/m$): = -56.96 dBm	

Frequency range: 30 – 1000 MHz



Test Date:	03-11-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	: 000456C69680
Test:	Unwanted Emission Levels i	n Restricted Bands- Conducted
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	High Channel Transmit = 2452 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	2
	Output port: 1	OFDM MCS15
	Average limit = 54 dB μ V/m at 3 meters	
	Conducted limit	
	$= 54 + 20\log(3 \text{ meters}) - 10$	4.8 - 8 dBi antenna gain $- 3$ dB (MIMO)
	operation) = -52.26 dBm	





Test Date:	03-11-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Peak	Sweep = Auto Couple
	Trace = Max Hold	High Channel Transmit = 2452 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	Z
	Output port: 1	OFDM MCS15
	Peak limit = 74 dB μ V/m at 3 meters	
	Conducted limit	
	$= 74 + 20\log(3 \text{ meters}) - 10$	4.8 - 8 dBi antenna gain $- 3$ dB (MIMO)
	operation) = -32.26 dBm	



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	High Channel Transmit = 2452 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	
	Output port: 1	OFDM MCS15
	Average limit = 54 dB μ V/m at 3 meters	
	Conducted limit	
	$= 54 + 20\log(3 \text{ meters}) - 10$	4.8 - 8 dBi antenna gain $- 3$ dB (MIMO)
	operation) = -52.26 dBm	-



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Peak	Sweep = Auto Couple
	Trace = Max Hold	High Channel Transmit = 2452 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	
	Output port: 1	OFDM MCS15
	Peak limit = 74 dB μ V/m at 3 meters	
	Conducted limit	
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)	
	operation) = -32.26 dBm	-



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	High Channel Transmit = 2452 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	Z
	Output port: 1	OFDM MCS15
	Average limit = 54 dB μ V/m at 3 meters	
	Conducted limit	
	$= 54 + 20\log(3 \text{ meters}) - 10$	4.8 - 8 dBi antenna gain $- 3$ dB (MIMO)
	operation) = -52.26 dBm	- ``



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Peak	Sweep = Auto Couple
	Trace = Max Hold	High Channel Transmit = 2452 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	
	Output port: 1	OFDM MCS15
	Peak limit = 74 dB μ V/m at 3 meters	
	Conducted limit	
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB} (\text{MIMO})$	
	operation) = -32.26 dBm	2





Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	Sweep = Auto Couple
	Trace = Max Hold	High Channel Transmit = 2452 MHz
	POINT-TO-MULTIPOINT OPERATION	
	Output Power Setting 15.5	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	2
	Output port: 1	OFDM MCS15
	Average limit = 54 dB μ V/m at 3 meters	
	Conducted limit	
	$= 54 + 20\log(3 \text{ meters}) - 10$	4.8 - 8 dBi antenna gain $- 3$ dB (MIMO)
	operation) = -52.26 dBm	



Test Date:	03-07-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC	: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Peak	Sweep = Auto Couple
	Trace = Max Hold	High Channel Transmit = 2452 MHz
	POINT-TO-MULTIPOINT	OPERATION
	Output Power Setting 15.5	Antenna gain: 8 dBi
	Channel bandwidth: 40 MHz	Z
	Output port: 1	OFDM MCS15
	Peak limit = 74 dB μ V/m at 3 meters	
	Conducted limit	
	$= 74 + 20\log(3 \text{ meters}) - 10$	4.8 - 8 dBi antenna gain $- 3$ dB (MIMO)
	operation) = -32.26 dBm	-



Test Date:	03-13-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted
Operator:	Craig B
Comment:	Receiver detector bandwidth 120 kHz
	Low Channel Transmit = 2412 MHz
	Point-to-Point & Point-to-Multipoint operation
	Output Power Setting 11.5 (used for 17 dBi antenna)
	Antenna gain: 17, 19, or 25 dBi
	Channel bandwidth: 20 MHz
	Output port: 1 OFDM MCS15
	Conducted limits: (calculated using worst case antenna gain of 25 dBi)
	$30-88$ MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
	reflection = -87.96 dBm
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m})$: = -84.46 dBm
	216-960 MHz (46 dB μ V/m): = -81.96 dBm
	960-1000 MHz (54 $dB\mu V/m$): = -73.96 dBm

Frequency range: $30 - 335.4 \text{ MHz}_{\text{Det}}$



Test Date:	03-13-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	Receiver detector bandwidth 120 kHz	
	Low Channel Transmit = 2412 MHz	
	Point-to-Point & Point-to-Multipoint operation	
	Output Power Setting 11.5 (used for 17 dBi antenna)	
	Antenna gain: 17, 19, or 25 dBi	
	Channel bandwidth: 20 MHz	
	Output port: 1 OFDM MCS15	
	Conducted limits: (calculated using worst case antenna gain of 25 dBi)	
	$30-88$ MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna	
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground	
	reflection = -87.96 dBm	
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m})$: = -84.46 dBm	
	216-960 MHz (46 dB μ V/m): = -81.96 dBm	
	960-1000 MHz (54 dB μ V/m): = -73.96 dBm	
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Test Date:	03-13-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA M	AC: 000456C69680		
Test:	Unwanted Emission Leve	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B			
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Average			
	Trace = Max Hold	Low Channel Transmit = 2412 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 11.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20 N	ИНz		
	Output port: 1	OFDM MCS15		
	Average limit = 54 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 – 25 dBi antenna gain – 3 dB (MIMO		
	operation) = -69.26 dBm	6		



Test Date:	03-13-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680			
Test:	Unwanted Emission Lev	vels in Restricted Bands- Conducted		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak			
	Trace = Max Hold	Low Channel Transmit = 2412 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 11.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20	MHz		
	Output port: 1	OFDM MCS15		
	Peak limit = 74 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
	operation) = -49.26 dBn	n		



Test Date:	03-13-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680			
Test:	Unwanted Emission Leve	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Average	Sweep = Auto Couple		
	Trace = Max Hold	Low Channel Transmit = 2412 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 11.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20 N	ИНz		
	Output port: 1	OFDM MCS15		
	Average limit = 54 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 – 25 dBi antenna gain – 3 dB (MIMO		
	(oneration) = -60.26 dBm	e x		



Test Date:	03-13-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA N	/IAC: 000456C69680		
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak	Sweep = Auto Couple		
	Trace = Max Hold	Low Channel Transmit = 2412 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 11.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20	MHz		
	Output port: 1	OFDM MCS15		
	Peak limit = 74 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
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Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680			
Test:	Unwanted Emission Leve	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Average	Sweep = Auto Couple		
	Trace = Max Hold	Low Channel Transmit = 2412 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 11.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20 N	ИНz		
	Output port: 1	OFDM MCS15		
	Average limit = 54 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 – 25 dBi antenna gain – 3 dB (MIMO		
	operation) = -69.26 dBm	e (



Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA N	/IAC: 000456C69680		
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak	Sweep = Auto Couple		
	Trace = Max Hold	Low Channel Transmit = 2412 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 11.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20	MHz		
	Output port: 1	OFDM MCS15		
	Peak limit = 74 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
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Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680			
Test:	Unwanted Emission Leve	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Average	Sweep = Auto Couple		
	Trace = Max Hold	Low Channel Transmit = 2412 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 11.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20 N	ИНz		
	Output port: 1	OFDM MCS15		
	Average limit = 54 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 – 25 dBi antenna gain – 3 dB (MIMO		
	operation) = -69.26 dBm	e (



Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA N	/IAC: 000456C69680		
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak	Sweep = Auto Couple		
	Trace = Max Hold	Low Channel Transmit = 2412 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 11.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20	MHz		
	Output port: 1	OFDM MCS15		
	Peak limit = 74 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
	(1000000000000000000000000000000000000	n e e e e e e e e e e e e e e e e e e e		



Test Date:	03-13-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	Receiver detector bandwidth 120 kHz	
	Mid Channel Transmit = 2437 MHz	
	Point-to-Point operation	
	Output Power Setting 20.5 (used for 17 dBi antenna)	
	Antenna gain: 17, 19, or 25 dBi	
	Channel bandwidth: 20 MHz	
	Output port: 1 OFDM MCS15	
	Conducted limits: (calculated using worst case antenna gain of 25 dBi)	
	$30-88 \text{ MHz}$: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna	
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground	
	reflection = -87.96 dBm	
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m})$: = -84.46 dBm	
	216-960 MHz (46 dB μ V/m): = -81.96 dBm	
	960-1000 MHz (54 $dB\mu V/m$): = -73.96 dBm	

Frequency range: $30 - 335.4 \underset{\text{Det}}{\text{MHz}}$



Test Date:	03-13-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	Receiver detector bandwidth 120 kHz	
	Mid Channel Transmit = 2437 MHz	
	Point-to-Point operation	
	Output Power Setting 20.5 (used for 17 dBi antenna)	
	Antenna gain: 17, 19, or 25 dBi	
	Channel bandwidth: 20 MHz	
	Output port: 1 OFDM MCS15	
	Conducted limits: (calculated using worst case antenna gain of 25 dBi)	
	$30-88$ MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna	
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground	
	reflection = -87.96 dBm	
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m})$: = -84.46 dBm	
	216-960 MHz (46 dB μ V/m): = -81.96 dBm	
	960-1000 MHz (54 dB μ V/m): = -73.96 dBm	
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Test Date:	03-13-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC	: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	Point-to-Point operation		
	Output Power Setting 20.5	Antenna gain: 17 dBi	
	Channel bandwidth: 20 MHz	2	
	Output port: 1	OFDM MCS15	
	Average limit = 54 dB μ V/m at 3 meters		
	Conducted limit		
	$= 54 + 20\log (3 \text{ meters}) - 104.8 - 17 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -61.26 dBm		


03-13-2014		
Cambium Networks		
EPMP 2.4 GHz STA MAC	: 000456C69680	
Unwanted Emission Levels in Restricted Bands- Conducted		
Craig B		
RBW = 1 MHz	VBW = 3 MHz	
Detector = Peak	Sweep = Auto Couple	
Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
Point-to-Point operation		
Output Power Setting 20.5	Antenna gain: 17 dBi	
Channel bandwidth: 20 MHz		
Output port: 1	OFDM MCS15	
Peak limit = 74 dB μ V/m at 3 meters		
Conducted limit		
$= 74 + 20\log(3 \text{ meters}) - 104.8 - 17 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
operation) = -41.26 dBm	- 、	
	03-13-2014 Cambium Networks EPMP 2.4 GHz STA MAC Unwanted Emission Levels : Craig B RBW = 1 MHz Detector = Peak Trace = Max Hold Point-to-Point operation Output Power Setting 20.5 Channel bandwidth: 20 MHz Output port: 1 Peak limit = 74 dB μ V/m at 3 Conducted limit = 74 + 20log (3 meters) – 10 operation) = -41.26 dBm	



Test Date:	03-13-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA M	AC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted			
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Average	Sweep = Auto Couple		
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz		
	Point-to-Point operation			
	Output Power Setting 20.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20 M	ИНz		
	Output port: 1	OFDM MCS15		
	Average limit = 54 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 – 25 dBi antenna gain – 3 dB (MIMO		
	(a - a - b) = 60.26 dBm	e (



Test Date:	03-13-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA M	1AC: 000456C69680		
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B			
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak	Sweep = Auto Couple		
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz		
	Point-to-Point operation			
	Output Power Setting 20.5 (used for 17 dBi antenna gain)			
	Antenna gain: 1	7, 19, or 25 dBi		
	Channel bandwidth: 20	MHz		
	Output port: 1	OFDM MCS15		
	Peak limit = 74 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
	(a = 10.26 dPm)	, e (



Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680			
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Average	Sweep = Auto Couple		
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz		
	Point-to-Point operation			
	Output Power Setting 20.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20 M	ИНz		
	Output port: 1	OFDM MCS15		
	Average limit = 54 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 – 25 dBi antenna gain – 3 dB (MIMO		
	operation) = -69.26 dBm	e (



Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680			
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak	Sweep = Auto Couple		
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz		
	Point-to-Point operation	1		
	Output Power Setting 20.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20	MHz		
	Output port: 1	OFDM MCS15		
	Peak limit = 74 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 25 \text{ dBi antenna gain} - 3 \text{ dB} (MIMO)$			
	(oneration) = -10.26 dBr	n		



Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680			
Test:	Unwanted Emission Levels in Restricted Bands- Conducted			
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Average	Sweep = Auto Couple		
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz		
	Point-to-Point operation			
	Output Power Setting 20.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20 M	ИНz		
	Output port: 1	OFDM MCS15		
	Average limit = 54 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 54 + 20\log(3 \text{ meters}) - 54 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
	operation) = -69.26 dBm	2		



Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680			
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak	Sweep = Auto Couple		
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz		
	Point-to-Point operation	1		
	Output Power Setting 20.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20	MHz		
	Output port: 1	OFDM MCS15		
	Peak limit = 74 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
	operation) = -49.26 dBr	n		



Test Date:	03-13-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted
Operator:	Craig B
Comment:	Receiver detector bandwidth 120 kHz
	Mid Channel Transmit = 2437 MHz
	Point-to-Point & Point-to-Multipoint operation
	Output Power Setting 18 (used for 17 dBi antenna)
	Antenna gain: 17, 19, or 25 dBi
	Channel bandwidth: 20 MHz
	Output port: 1 OFDM MCS15
	Conducted limits: (calculated using worst case antenna gain of 25 dBi)
	$30-88$ MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
	reflection = -87.96 dBm
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m})$: = -84.46 dBm
	216-960 MHz (46 dB μ V/m): = -81.96 dBm
	960-1000 MHz (54 dB μ V/m): = -73.96 dBm

Frequency range: $30 - 335.4 \underset{\text{Det}}{\text{MHz}}$



Test Date:	03-13-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted
Operator:	Craig B
Comment:	Receiver detector bandwidth 120 kHz
	Mid Channel Transmit = 2437 MHz
	Point-to-Point & Point-to-Multipoint operation
	Output Power Setting 18 (used for 17 dBi antenna)
	Antenna gain: 17, 19, or 25 dBi
	Channel bandwidth: 20 MHz
	Output port: 1 OFDM MCS15
	Conducted limits: (calculated using worst case antenna gain of 25 dBi)
	$30-88 \text{ MHz}$: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
	reflection = -87.96 dBm
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m})$: = -84.46 dBm
	216-960 MHz (46 dB μ V/m): = -81.96 dBm
	960-1000 MHz (54 dB μ V/m): = -73.96 dBm



Test Date:	03-13-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	Point-to-Multipoint operation	on	
	Output Power Setting 18	Antenna gain: 17 dBi	
	Channel bandwidth: 20 MHz		
	Output port: 1	OFDM MCS15	
	Average limit = 54 dB μ V/m at 3 meters		
	Conducted limit		
	$= 54 + 20\log(3 \text{ meters}) - 104.8 - 17 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -61.26 dBm		



Test Date:	03-13-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	Point-to-Multipoint operation	Point-to-Multipoint operation	
	Output Power Setting 18	Antenna gain: 17 dBi	
	Channel bandwidth: 20 MHz		
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit		
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 17 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -41.26 dBm	- ``	



Test Date:	03-13-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680			
Test:	Unwanted Emission Levels in Restricted Bands- Conducted			
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Average	Sweep = Auto Couple		
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz		
	Point-to-Multipoint operation			
	Output Power Setting 18 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20 N	ИНz		
	Output port: 1	OFDM MCS15		
	Average limit = 54 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 – 25 dBi antenna gain – 3 dB (MIMO		
	operation) = -69.26 dBm	-		



Test Date:	03-13-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	Point-to-Multipoint operation		
	Output Power Setting 18 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 20 MHz		
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 25 \text{ dBi antenna gain} - 3 \text{ dB} (MIMO)$		
	operation) = -49.26 dBn	j	



Test Date:	03-14-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Leve	els in Restricted Bands- Conducted	
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	Point-to-Multipoint operation		
	Output Power Setting 18 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 20 N	ИНz	
	Output port: 1	OFDM MCS15	
	Average limit = 54 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 54 + 20\log (3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -69.26 dBm		



Test Date:	03-14-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	Point-to-Multipoint operation		
	Output Power Setting 18 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 20 I	MHz	
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -49.26 dBm	l	



Test Date:	03-14-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Leve	els in Restricted Bands- Conducted	
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	Point-to-Multipoint operation		
	Output Power Setting 18 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 20 N	4Hz	
	Output port: 1	OFDM MCS15	
	Average limit = 54 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 54 + 20\log (3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -69.26 dBm		



Test Date:	03-14-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	Point-to-Multipoint operation		
	Output Power Setting 18 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 20 I	MHz	
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 74 + 20\log (3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain $- 3 \text{ dB}$ (MIMO)		
	operation) = -49.26 dBm	l	



Test Date:	03-13-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	Receiver detector bandwidth 120 kHz	
	High Channel Transmit = 2462 MHz	
	Point-to-Point & Point-to-Multipoint operation	
	Output Power Setting 10 (used for 17 dBi antenna)	
	Antenna gain: 17, 19, or 25 dBi	
	Channel bandwidth: 20 MHz	
	Output port: 1 OFDM MCS15	
	Conducted limits: (calculated using worst case antenna gain of 25 dBi)	
	$30-88$ MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna	
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground	
	reflection = -87.96 dBm	
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m}) = -84.46 \text{ dBm}$	
	216-960 MHz (46 dB μ V/m): = -81.96 dBm	
	960-1000 MHz (54 dB μ V/m): = -73.96 dBm	



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Date:

Test Date:	03-13-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	Receiver detector bandwidth 120 kHz	
	High Channel Transmit = 2462 MHz	
	Point-to-Point & Point-to-Multipoint operation	
	Output Power Setting 10 (used for 17 dBi antenna)	
	Antenna gain: 17, 19, or 25 dBi	
	Channel bandwidth: 20 MHz	
	Output port: 1 OFDM MCS15	
	Conducted limits: (calculated using worst case antenna gain of 25 dBi)	
	$30-88$ MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna	
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground	
	reflection = -87.96 dBm	
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m})$: = -84.46 dBm	
	216-960 MHz (46 dB μ V/m): = -81.96 dBm	
	960-1000 MHz (54 dB μ V/m): = -73.96 dBm	

Frequency range: 399.9 - 1000 MHzMA/QP Trd ES-K1 🔆 Att 10 dB AUTO ResBW 120 kHz INPUT 1 Meas T 100 ms Unit dBm 403.3500000 FREQUENCY MHz PK+ -79.03 LEVEL dBm -83.85 QPK dBm -40 -70 -60 -50 -100 -80 -110 -90 -30 Marker 1 [T2] -86.14 dBm 403.35000000 MHz -40 -50 -60 -70 -80 -90 -100 -110 1 MA -120 2AV -130

1 GHz

-140

Date:

399.9 MHz

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Test Date:	03-13-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average		
	Trace = Max Hold	High Channel Transmit = 2462 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 10 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 20 MHz		
	Output port: 1	OFDM MCS15	
	Average limit = 54 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 – 25 dBi antenna gain – 3 dB (MIMO	
	operation) = -69.26 dBm	6	



Test Date:	03-13-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak		
	Trace = Max Hold	High Channel Transmit = 2462 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 10 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 20	MHz	
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO	
	operation) = -10.26 dBn	e v	



Test Date:	03-13-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	High Channel Transmit = 2462 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 10 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 20 N	ИНz	
	Output port: 1	OFDM MCS15	
	Average limit = 54 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 – 25 dBi antenna gain – 3 dB (MIMO	
	operation) = -69.26 dBm	-	



Test Date:	03-13-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680			
Test:	Unwanted Emission Levels in Restricted Bands- Conducted			
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak	Sweep = Auto Couple		
	Trace = Max Hold	High Channel Transmit = 2462 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 10 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20	MHz		
	Output port: 1	OFDM MCS15		
	Peak limit = 74 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
	(10, 26, dBn) = 10, 26, dBn			



Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680			
Test:	Unwanted Emission Leve	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Average	Sweep = Auto Couple		
	Trace = Max Hold	High Channel Transmit = 2462 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 10 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20 N	ИНz		
	Output port: 1	OFDM MCS15		
	Average limit = 54 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
	operation) = -69.26 dBm	e x		



Test Date:	03-14-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	High Channel Transmit = 2462 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 10 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 20 MHz		
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO	
	(oneration) = -10.26 dBn		



Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680			
Test:	Unwanted Emission Leve	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Average	Sweep = Auto Couple		
	Trace = Max Hold	High Channel Transmit = 2462 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 10 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 20 MHz			
	Output port: 1	OFDM MCS15		
	Average limit = 54 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
	operation) = -69.26 dBm	e x		



Test Date:	03-14-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	High Channel Transmit = 2462 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 10 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 20 MHz		
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO	
	(oneration) = -10.26 dBn		



Test Date:	03-13-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	Receiver detector bandwidth 120 kHz		
	Low Channel Transmit = 2427 MHz		
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 10 (used for 17 dBi antenna)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 40 MHz		
	Output port: 1 OFDM MCS15		
	Conducted limits: (calculated using worst case antenna gain of 25 dBi)		
	$30-88$ MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna		
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground		
	reflection = -87.96 dBm		
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m}) = -84.46 \text{ dBm}$		
	216-960 MHz (46 $dB\mu V/m$): = -81.96 dBm		
	960-1000 MHz (54 dB μ V/m): = -73.96 dBm		

Frequency range: $30 - 335.4 \underset{\text{Det}}{\text{MHz}}$



Test Date:	03-13-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	Receiver detector bandwidth 120 kHz	
	Low Channel Transmit = 2427 MHz	
	Point-to-Point & Point-to-Multipoint operation	
	Output Power Setting 10 (used for 17 dBi antenna)	
	Antenna gain: 17, 19, or 25 dBi	
	Channel bandwidth: 40 MHz	
	Output port: 1 OFDM MCS15	
	Conducted limits: (calculated using worst case antenna gain of 25 dBi)	
	$30-88 \text{ MHz}$: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna	
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground	
	reflection = -87.96 dBm	
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m}) = -84.46 \text{ dBm}$	
	216-960 MHz (46 dB μ V/m): = -81.96 dBm	
	960-1000 MHz (54 dB μ V/m): = -73.96 dBm	



Test Date:	03-13-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA M	AC: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average		
	Trace = Max Hold	Low Channel Transmit = 2427 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 10 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 40 N	ИНz	
	Output port: 1	OFDM MCS15	
	Average limit = 54 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 – 25 dBi antenna gain – 3 dB (MIMO	
	operation) = -69.26 dBm	6	



Test Date:	03-13-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Lev	els in Restricted Bands- Conducted	
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak		
	Trace = Max Hold	Low Channel Transmit = 2427 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 10 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 40 M	MHz	
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 74 + 20\log(3 \text{ meters})$	– 104.8 – 25 dBi antenna gain – 3 dB (MIMO	
	operation) = -49.26 dBm		



Test Date:	03-13-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680			
Test:	Unwanted Emission Leve	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Average	Sweep = Auto Couple		
	Trace = Max Hold	Low Channel Transmit = 2427 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 10 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 40 MHz			
	Output port: 1	OFDM MCS15		
	Average limit = 54 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 54 + 20\log (3 \text{ meters}) - 104.8 - 25 \text{ dBi antenna gain} - 3 \text{ dB} (MIMO)$			
	(oneration) = -60.26 dBm	e x		



Test Date:	03-13-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA M	IAC: 000456C69680	
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Low Channel Transmit = 2427 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 10 (used for 17 dBi antenna gain)		
	Antenna gain: 1	7, 19, or 25 dBi	
	Channel bandwidth: 40 MHz		
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO	
	(a n a n a n a n a n a n a n a n a n a n	. ~ ~ ~	



Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680			
Test:	Unwanted Emission Leve	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Average	Sweep = Auto Couple		
	Trace = Max Hold	Low Channel Transmit = 2427 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 10 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 40 MHz			
	Output port: 1	OFDM MCS15		
	Average limit = 54 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 – 25 dBi antenna gain – 3 dB (MIMO		
	operation) = -69.26 dBm	e (



Test Date:	03-14-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	Low Channel Transmit = 2427 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 10 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 40 MHz		
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO	
	(oneration) = -10.26 dBn	e v	



Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680			
Test:	Unwanted Emission Leve	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Average	Sweep = Auto Couple		
	Trace = Max Hold	Low Channel Transmit = 2427 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 10 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 40 MHz			
	Output port: 1	OFDM MCS15		
	Average limit = 54 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 – 25 dBi antenna gain – 3 dB (MIMO		
	operation) = -69.26 dBm	e (


Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA M	1AC: 000456C69680		
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B			
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak	Sweep = Auto Couple		
	Trace = Max Hold	Low Channel Transmit = 2427 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 10 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 40	MHz		
	Output port: 1	OFDM MCS15		
	Peak limit = 74 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
	operation) = -10.26 dBn			



03-13-2014		
Cambium Networks		
EPMP 2.4 GHz STA MAC: 000456C69680		
Unwanted Emission Levels in Restricted Bands- Conducted		
Craig B		
Receiver detector bandwidth 120 kHz		
Mid Channel Transmit = 2437 MHz		
Point-to-Point & Point-to-Multipoint operation		
Output Power Setting 11.5 (used for 17 dBi antenna)		
Antenna gain: 17, 19, or 25 dBi		
Channel bandwidth: 40 MHz		
Output port: 1 OFDM MCS15		
Conducted limits: (calculated using worst case antenna gain of 25 dBi)		
$30-88 \text{ MHz}$: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna		
gain – 3 dB (MIMO operation) -4.7 dB (maximum ground		
reflection = -87.96 dBm		
$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m}) = -84.46 \text{ dBm}$		
216-960 MHz (46 $dB\mu V/m$): = -81.96 dBm		
960-1000 MHz (54 dB μ V/m): = -73.96 dBm		







Test Date:	03-13-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	Receiver detector bandwidth 120 kHz	
	Mid Channel Transmit = 2437 MHz	
	Point-to-Point & Point-to-Multipoint operation	
	Output Power Setting 11.5 (used for 17 dBi antenna)	
	Antenna gain: 17, 19, or 25 dBi	
	Channel bandwidth: 40 MHz	
	Output port: 1 OFDM MCS15	
	Conducted limits: (calculated using worst case antenna gain of 25 dBi)	
	$30-88$ MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna	
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground	
	reflection = -87.96 dBm	
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m}) = -84.46 \text{ dBm}$	
	216-960 MHz (46 dB μ V/m): = -81.96 dBm	
	960-1000 MHz (54 dB μ V/m): = -73.96 dBm	



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Date:

Test Date:	03-13-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA M	AC: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average		
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 11.5 (used for 17 dBi antenna gain)		
	Antenna gain: 17	⁷ , 19, or 25 dBi	
	Channel bandwidth: 40 M	ИНz	
	Output port: 1	OFDM MCS15	
	Average limit = 54 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 54 + 20\log(3 \text{ meters}) - 54 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO	
	operation) = -69.26 dBm	C	



Test Date:	03-13-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA M	IAC: 000456C69680		
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B			
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak			
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 11.5 (used for 17 dBi antenna gain)			
	Antenna gain: 1	7, 19, or 25 dBi		
	Channel bandwidth: 40	MHz		
	Output port: 1	OFDM MCS15		
	Peak limit = 74 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
	operation) = -49.26 dBm	e v		



Test Date:	03-13-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA M	AC: 000456C69680		
Test:	Unwanted Emission Leve	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B			
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Average	Sweep = Auto Couple		
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 11.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 40 N	ИНz		
	Output port: 1	OFDM MCS15		
	Average limit = 54 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 – 25 dBi antenna gain – 3 dB (MIMO		
	operation) = -69.26 dBm	e x		



Test Date:	03-13-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA	MAC: 000456C69680		
Test:	Unwanted Emission Le	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B			
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak	Sweep = Auto Couple		
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 11.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 40	MHz		
	Output port: 1	OFDM MCS15		
	Peak limit = 74 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
	(10, 26, dBr)	n N		



Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA M	AC: 000456C69680		
Test:	Unwanted Emission Leve	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B			
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Average	Sweep = Auto Couple		
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 11.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 40 N	ИНz		
	Output port: 1	OFDM MCS15		
	Average limit = 54 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
	operation) = -69.26 dBm	e x		



Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA N	1AC: 000456C69680		
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B			
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak	Sweep = Auto Couple		
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 11.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 40	MHz		
	Output port: 1	OFDM MCS15		
	Peak limit = 74 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
	operation) = -10.26 dBn			



Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA M	AC: 000456C69680		
Test:	Unwanted Emission Leve	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B			
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Average	Sweep = Auto Couple		
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 11.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 40 N	ИНz		
	Output port: 1	OFDM MCS15		
	Average limit = 54 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
	operation) = -69.26 dBm	e x		



Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA N	/IAC: 000456C69680		
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B			
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak	Sweep = Auto Couple		
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 11.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 40	MHz		
	Output port: 1	OFDM MCS15		
	Peak limit = 74 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
	(oneration) = -10.26 dBr	n		



Test Date:	03-13-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680	
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	Receiver detector bandwidth 120 kHz	
	High Channel Transmit = 2452 MHz	
	Point-to-Point & Point-to-Multipoint operation	
	Output Power Setting 6.5 (used for 17 dBi antenna)	
	Antenna gain: 17, 19, or 25 dBi	
	Channel bandwidth: 40 MHz	
	Output port: 1 OFDM MCS15	
	Conducted limits: (calculated using worst case antenna gain of 25 dBi)	
	$30-88$ MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna	
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground	
	reflection = -87.96 dBm	
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m}) = -84.46 \text{ dBm}$	
	216-960 MHz (46 dB μ V/m): = -81.96 dBm	
	960-1000 MHz (54 dB μ V/m): = -73.96 dBm	

Frequency range: $30 - 335.4 \underset{\text{Det}}{\text{MHz}}$



Test Date:	03-13-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted
Operator:	Craig B
Comment:	Receiver detector bandwidth 120 kHz
	High Channel Transmit = 2452 MHz
	Point-to-Point & Point-to-Multipoint operation
	Output Power Setting 6.5 (used for 17 dBi antenna)
	Antenna gain: 17, 19, or 25 dBi
	Channel bandwidth: 40 MHz
	Output port: 1 OFDM MCS15
	Conducted limits: (calculated using worst case antenna gain of 25 dBi)
	$30-88 \text{ MHz}$: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna
	gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
	reflection = -87.96 dBm
	$88-216 \text{ MHz} (43.5 \text{ dB}\mu\text{V/m})$: = -84.46 dBm
	216-960 MHz (46 dB μ V/m): = -81.96 dBm
	960-1000 MHz (54 dB μ V/m): = -73.96 dBm



1 GHz

-140

Date:

399.9 MHz

13.MAR.2014 13:07:33

Test Date:	03-13-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA M	AC: 000456C69680	
Test:	Unwanted Emission Leve	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average		
	Trace = Max Hold	High Channel Transmit = 2452 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 6.5 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 40 N	ИНz	
	Output port: 1	OFDM MCS15	
	Average limit = 54 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO	
	operation) = -69.26 dBm	e (



Test Date:	03-13-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Le	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak		
	Trace = Max Hold	High Channel Transmit = 2452 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 6.5 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 40	MHz	
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO	
	operation) = -49.26 dBr	n	



Test Date:	03-13-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	High Channel Transmit = 2452 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 6.5 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 40 M	ИНz	
	Output port: 1	OFDM MCS15	
	Average limit = 54 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 – 25 dBi antenna gain – 3 dB (MIMO	
	operation) = -60.26 dBm	6	



Test Date:	03-13-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA	/IAC: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Peak	Sweep = Auto Couple
	Trace = Max Hold	High Channel Transmit = 2452 MHz
	Point-to-Point & Point-to-Multipoint operation	
	Output Power Setting 6.5 (used for 17 dBi antenna gain)	
	Antenna gain: 17, 19, or 25 dBi	
	Channel bandwidth: 40	MHz
	Output port: 1	OFDM MCS15
	Peak limit = 74 dB μ V/m at 3 meters	
	Conducted limit (calculated using worst case antenna gain of 25 dBi)	
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO
	(10000000) = 10.26 dBn	e v



Test Date:	03-14-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	High Channel Transmit = 2452 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 6.5 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 40 M	ИНz	
	Output port: 1	OFDM MCS15	
	Average limit = 54 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 54 + 20\log(3 \text{ meters}) - 54 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO	
	operation) = -69.26 dBm	e (



Test Date:	03-14-2014			
Company:	Cambium Networks			
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680			
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B			
Comment:	RBW = 1 MHz	VBW = 3 MHz		
	Detector = Peak	Sweep = Auto Couple		
	Trace = Max Hold	High Channel Transmit = 2452 MHz		
	Point-to-Point & Point-to-Multipoint operation			
	Output Power Setting 6.5 (used for 17 dBi antenna gain)			
	Antenna gain: 17, 19, or 25 dBi			
	Channel bandwidth: 40	MHz		
	Output port: 1	OFDM MCS15		
	Peak limit = 74 dB μ V/m at 3 meters			
	Conducted limit (calculated using worst case antenna gain of 25 dBi)			
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO		
	(oneration) = -10.26 dBr	n		



Test Date:	03-14-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Levels in Restricted Bands- Conducted		
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Average	Sweep = Auto Couple	
	Trace = Max Hold	High Channel Transmit = 2452 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 6.5 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 40 M	ИНz	
	Output port: 1	OFDM MCS15	
	Average limit = 54 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 – 25 dBi antenna gain – 3 dB (MIMO	
	operation) = -69.26 dBm	e x	



Test Date:	03-14-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Lev	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak	Sweep = Auto Couple	
	Trace = Max Hold	High Channel Transmit = 2452 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 6.5 (used for 17 dBi antenna gain)		
	Antenna gain: 17, 19, or 25 dBi		
	Channel bandwidth: 40	MHz	
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 74 + 20\log(3 \text{ meters})$	- 104.8 - 25 dBi antenna gain - 3 dB (MIMO	
	(oneration) = -10.26 dBn	n	



Conducted Measurements for Radiated Restricted Band Compliance - 19 dBi Panel Antenna

for 20MHz Channel Bandwidth Low & High Channel data

See the notes with the 20MHz Channel Bandwidth Low & High Channel data for the 17 dBi Sector Antenna

Test Date:	03-15-2014	
Company:	Cambium Networks	
EUT:	EPMP 2.4 GHz STA M	AC: 000456C69680
Test:	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B	
Comment:	RBW = 1 MHz	VBW = 3 MHz
	Detector = Average	
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz
	Point-to-Point & Point-to-Multipoint operation	
	Output Power Setting 15 (used for 19 dBi antenna gain)	
	Antenna gain: 19	, or 25 dBi
	Channel bandwidth: 20 N	ИНz
	Output port: 1	OFDM MCS15
	Average limit = 54 dB μ V/m at 3 meters	
	Conducted limit (calculated using worst case antenna gain of 25 dBi)	
	$= 54 + 20\log(3 \text{ meters}) -$	- 104.8 – 25 dBi antenna gain – 3 dB (MIMO
	operation = -69.26 dBm	-



Test Date:	03-15-2014		
Company:	Cambium Networks		
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680		
Test:	Unwanted Emission Le	Unwanted Emission Levels in Restricted Bands- Conducted	
Operator:	Craig B		
Comment:	RBW = 1 MHz	VBW = 3 MHz	
	Detector = Peak		
	Trace = Max Hold	Mid Channel Transmit = 2437 MHz	
	Point-to-Point & Point-to-Multipoint operation		
	Output Power Setting 15 (used for 19 dBi antenna gain)		
	Antenna gain: 19, or 25 dBi		
	Channel bandwidth: 20	MHz	
	Output port: 1	OFDM MCS15	
	Peak limit = 74 dB μ V/m at 3 meters		
	Conducted limit (calculated using worst case antenna gain of 25 dBi)		
	$= 74 + 20\log(3 \text{ meters})$	-104.8 - 25 dBi antenna gain -3 dB (MIMO)	
	$(neration) = -40.26 dB_1$	m	



Conducted Measurements for Radiated Restricted Band Compliance - 19 dBi Panel Antenna

for 20MHz Channel Bandwidth Mid Channel data, 30 to 1000 MHz & 4.2 to 25 GHz

See the notes with the 20MHz Channel Bandwidth Mid Channel data for the 17 dBi Sector Antenna, 30 to 1000 MHz & 4.2 to 25 GHz

Conducted Measurements for Radiated Restricted Band Compliance - 25 dBi Dish Antenna

for 20MHz Channel Bandwidth Low & High Channel data:

See the notes with the 20MHz Channel Bandwidth Low & High Channel data for the 17 dBi Sector Antenna

for 20MHz Channel Bandwidth Mid Channel data:

See the notes with the 20MHz Channel Bandwidth Mid Channel data for the 19 dBi Panel Antenna

Conducted Measurements for Radiated Restricted Band Compliance - 25 dBi Dish Antenna

for 40MHz Channel Bandwidth

See the notes with the 40MHz Channel Bandwidth data for the 17 dBi Sector Antenna



Appendix B – Measurement Data

B9.0 Radiated Restricted Band-Edge Compliance - radiated with Omni & Patch Antennas

Rule Section: FCC 15.205

Test Procedure: FCC KDB 558074 D01 DTS Meas Guidance v03r01 – Guidance for Performing Gompliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247

- 12.0 Emissions in restricted frequency bands 12.1 Radiated emission measurements
- **Description**: This test applies to harmonics/spurs that fall in the restricted bands listed in Section 15.205.

Measurements were taken for OFDM MCS15 with 20 MHz and 40 MHz channel bandwidths at the low, middle and high channels of operation. EUT was set to transmit continuously with a 100% duty cycle.

Limit: FCC Part 15.209

Results: Passed

Notes: Tested while transmitting from antennas. Both transmit chains were active during this test.

Test Date:	03-04-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – Radiated from integral antenna
Operator:	Craig B

Comment:

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Average \\ Trace mode = max hold \\ \hline Low Channel Transmit = 2.412 \ GHz \\ Test software power setting: 18 \\ 20 \ MHz \ CH \ BW \\ Both chains 0 \ and 1 \ active \\ Lower Restricted Band-Edge \ Frequency = 2.390 \ GHz \\ Average \ Limit = 54 \ dBuV/m \\ Modulation \ Type: OFDM \ MCS15 \end{array}$



Test Date:	03-04-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – Radiated from 8 dBi Omni antenna
Operator:	Craig B

Comment:

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \\ \textbf{Low Channel Transmit = 2.412 GHz} \\ Test software power setting: 18 \\ 20 MHz CH BW \\ Both chains 0 and 1 active \\ Lower Restricted Band-Edge Frequency = 2.390 GHz \\ Peak Limit = 74 dBuV/m \\ Modulation Type: OFDM MCS15 \end{array}$













4.MAR.2014 14:10:46

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4.MAR.2014 14:11:48

4 14:11:48






4.MAR.2014 12:50:29

Test Date:	03-04-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – Radiated from integral antenna
Operator:	Craig B
[•]	-

RBW = 1MHz $VBW \ge 3MHz$ Detector = Average Trace mode = max hold High Channel Transmit = 2.462 GHz Test software power setting: 18 20 MHz CH BW Both chains 0 and 1 active Upper Restricted Band-Edge Frequency = 2.4835 GHz Average Limit = 54 dBuV/m









Test Date:	03-04-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements - Radiated from integral antenna
Operator:	Craig B







4.MAR.2014 14:04:18





4.MAR.2014 13:07:34









4.MAR.2014 13:32:14





4.MAR.2014 13:33:34

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4.MAR.2014 12:33:57



Test Date:	03-04-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – Radiated from integral antenna
Operator:	Craig B
Comment:	RBW = 1MHz

 $VBW \ge 3MHz$ Detector = Average Trace mode = max hold High Channel Transmit = 2.452 GHz Test software power setting: 15.5 Both chains 0 and 1 active 40 MHz CH BW Upper Restricted Band-Edge Frequency = 2.4835 GHz Average Limit = 54 dBuV/mModulation Type: OFDM MCS15













Test Date:	01-20-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C1A853
Test:	Band-Edge Measurements – Radiated from integral antenna
Operator:	Craig B
Î	-

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline Low Channel Transmit = 2.412 GHz \\ Test software setting: 15 (used to get 14 dBm output) \\ 20 MHz CH BW Both chains 0 and 1 active \\ Lower Restricted Band-Edge Frequency = 2.390 GHz \\ Average Limit = 54 dBuV/m \\ Modulation Type: OFDM MCS15 \end{array}$









20.JAN.2014 09:28:50









20.JAN.2014 09:00:03

Test Date:	01-17-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C1A853
Test:	Band-Edge Measurements – Radiated from integral antenna
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline \mbox{Mid Channel Transmit} = 2.437 \ \mbox{GHz} \\ Test software setting: 27 (used to get 26 \ \mbox{dBm output}) \\ 20 \ \mbox{MHz CH BW} & Both chains 0 \ \mbox{and 1 active} \\ Lower Restricted Band-Edge Frequency = 2.390 \ \mbox{GHz} \\ Upper Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Average Limit = 54 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$







17.JAN.2014 15:21:38





17.JAN.2014 15:05:29





17.JAN.2014 15:04:10













20.JAN.2014 10:12:52





20.JAN.2014 10:15:09

















20.JAN.2014 11:42:28

Test Date:	01-17-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C1A853
Test:	Band-Edge Measurements – Radiated from integral antenna
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline \mbox{Mid Channel Transmit} = 2.437 \ \mbox{GHz} \\ Test software setting: 17 (used to get 16 \ \mbox{dBm output}) \\ 40 \ \mbox{MHz CH BW} & Both chains 0 \ \mbox{and 1 active} \\ Lower Restricted Band-Edge Frequency = 2.390 \ \mbox{GHz} \\ Upper Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Average Limit = 54 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$














20.JAN.2014 11:01:13









20.JAN.2014 10:37:08







166 South Carter, Genoa City, WI 53128

Cambium Networks C024900P021A & C024900P031A 19738 6334

Appendix B – Measurement Data

B10.0 Conducted Measurements for Radiated Restricted Band-Edge Compliance - for Sector, Panel, and Dish Antennas

Rule Section: FCC 15.205

Test Procedure: FCC KDB 558074 D01 DTS Meas Guidance v03r01 – Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247

12.1 Emissions in restricted frequency bands12.2.2 General Procedure for conducted measurements in restricted bands

Description: Measure the conducted output power (in dBm) using the detector specified (section 12.2.4 used for peak, and 12.2.5.1 used for average).
Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level.
For devices with multiple antenna-ports, measure the power of each individual chain and sum the

For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (*e.g.*, Watts, mW).

Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

E = EIRP - 20log D + 104.8

where:

 $E = electric field strength in dB\mu V/m$,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

Compare the resultant electric field strength level to the applicable limit.

Limit:	Average Limit = 54dBuV/m @ 3 meters Peak Limit = 74dBuV/m @ 3 meters
Results:	Passed
Notes:	Measurements were taken for OFDM MCS15 with 20 MHz and 40 MHz channel bandwidths at the low, middle and high channels of operation. EUT was set to transmit continuously with a 100% duty cycle.

Test Date:	03-12-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{l} \text{RBW} = 1 \text{MHz} \\ \text{VBW} \geq 3 \text{MHz} \\ \text{Detector} = \text{RMS} \\ \text{Trace mode} = \text{Average 200 traces} \\ \text{Low Channel Transmit} = 2.412 \text{ GHz} \\ \text{Test software power setting:} \quad 11.5 \\ 20 \text{ MHz CH BW} \qquad \text{Output port: 0} \\ \text{Restricted Band-Edge Frequency} = 2.390 \text{ GHz} \\ \text{Average Limit} = 54 \text{ dBuV/m} \\ \text{Modulation Type:} \qquad \text{OFDM MCS15} \end{array}$



Test Date:	03-12-2014
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EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
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Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \mbox{Low Channel Transmit} = 2.412 \ \mbox{GHz} \\ Test software power setting: 11.5 \\ 20 \ \mbox{MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.390 \ \mbox{GHz} \\ Average Limit = 54 \ \mbox{dBuV/m} \\ Modulation Type: OFDM MCS15 \end{array}$



-61.14 dBm = 0.000000769 mW -61.66 dBm = 0.000000682 mW Total = 0.000000769 + 0.000000682 = 0.000001451 mW = -58.38 dBm

E = EIRP - 20log D + 104.8= -58.38 dBm + 17 dBi - 20log 3 + 104.8 = 53.88 dBµV/m Margin = 0.12 (for Average limit of 54 dBµV/m)



 $\begin{array}{l} \text{RBW} = 1 \text{MHz} \\ \text{VBW} \geq 3 \text{MHz} \\ \text{Detector} = \text{Peak} \\ \text{Trace} = \text{Max Hold} \\ \hline \textbf{Low Channel Transmit} = 2.412 \text{ GHz} \\ \text{Test software power setting:} \quad 11.5 \\ 20 \text{ MHz CH BW} \qquad \text{Output port: } \hline \textbf{0} \\ \text{Restricted Band-Edge Frequency} = 2.390 \text{ GHz} \\ \text{Peak Limit} = 74 \text{ dBuV/m} \\ \text{Modulation Type:} \qquad \text{OFDM MCS15} \end{array}$



Test Date:	03-12-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \\ \mbox{Low Channel Transmit} = 2.412 \ \mbox{GHz} \\ Test software power setting: 11.5 \\ 20 \ \mbox{MHz} \ \mbox{CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.390 \ \mbox{GHz} \\ Peak \ \mbox{Limit} = 74 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



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-42.29 dBm = 0.000059020 mW -44.09 dBm = 0.000038994 mW Total = 0.000059020 + 0.000038994 = 0.000098014 mW = -40.08 dBm

 $E = EIRP - 20\log D + 104.8$ = -40.08 dBm + 17 dBi - 20log 3 + 104.8 = 72.18 dBµV/m Margin = 1.82 dB (for Peak limit of 74 dBµV/m)





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Test Date:	03-12-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 20.5 \\ 20 \mbox{ MHz CH BW} & Output port: \\ \hline \mbox{Restricted Band-Edge Frequency} = 2.390 \mbox{ GHz} \\ Average Limit = 54 \mbox{ dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



-64.16 dBm = 0.000000384 mW -62.72 dBm = 0.000000535 mW Total = 0.000000384 + 0.000000535 = 0.000000919 mW = -60.36 dBm

E = EIRP - 20log D + 104.8= -60.36 dBm + 17 dBi - 20log 3 + 104.8 = 51.90 dBµV/m Margin = 2.10 dB (for Average limit of 54 dBµV/m)

Test Date:	03-12-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

RBW = 1MHz $VBW \ge 3MHz$ Detector = Peak Trace = Max HoldMid Channel Transmit = 2.437 GHz Test software power setting: 20.5 20 MHz CH BW Output port: 0 Restricted Band-Edge Frequency = 2.390 GHzPeak Limit = 74 dBuV/mModulation Type: OFDM MCS15





12.MAR.2014 08:38:06

Test Date:	03-12-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 20.5 \\ 20 \mbox{ MHz CH BW} & Output port: \\ \hline \mbox{Restricted Band-Edge Frequency} = 2.390 \mbox{ GHz} \\ Peak Limit = 74 \mbox{ dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$





-49.94 dBm = 0.000010139 mW -48.15 dBm = 0.000015311 mW Total = 0.000010139 + 0.000015311 = 0.00002545 mW = -45.94 dBm

 $E = EIRP - 20\log D + 104.8$ = -45.94 dBm + 17 dBi - 20log 3 + 104.8 = 66.32 dBµV/m Margin = 7.68 dB (for Peak limit of 74 dBµV/m)





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Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 20.5 \\ 20 \mbox{ MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 \mbox{ GHz} \\ Average Limit = 54 \mbox{ dBuV/m} \\ Modulation Type: OFDM MCS15 \end{array}$







-61.07 dBm = 0.000000782 mW -62.09 dBm = 0.000000618 mW Total = 0.000000782 + 0.000000618 = 0.000001400 mW = -58.53 dBm

 $E = EIRP - 20\log D + 104.8$ = -58.53 dBm + 17 dBi - 20log 3 + 104.8 = 53.23 dBµV/m Margin = 0.77 dB (for Average limit of 54 dBµV/m)



 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 20.5 \\ 20 \mbox{ MHz CH BW} & Output port: \hline \mbox{0} \\ Restricted Band-Edge Frequency = 2.4835 \mbox{ GHz} \\ Peak Limit = 74 \mbox{ dBuV/m} \\ Modulation Type: OFDM MCS15 \\ \end{array}$



Test Date:	03-12-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 20.5 \\ 20 \mbox{ MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 \mbox{ GHz} \\ Peak Limit = 74 \mbox{ dBuV/m} \\ Modulation Type: OFDM MCS15 \end{array}$



-47.18 dBm = 0.000019143 mW -46.65 dBm = 0.000021627 mW Total = 0.000019143 + 0.000021627 = 0.00004077 mW = -43.89 dBm

 $E = EIRP - 20\log D + 104.8$ = -43.89 dBm + 17 dBi - 20log 3 + 104.8 = 68.37 dBµV/m Margin = 5.63 dB (for Peak limit of 74 dBµV/m)



 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline \mbox{High Channel Transmit} = 2.462 \ \mbox{GHz} \\ Test software power setting: 10 \\ 20 \ \mbox{MHz CH BW} & Output port: 0 \\ Restricted Band-Edge \ \mbox{Frequency} = 2.4835 \ \mbox{GHz} \\ Average \ \mbox{Limit} = 54 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



Test Date:	03-12-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \mbox{High Channel Transmit} = 2.462 \mbox{ GHz} \\ Test software power setting: 10 \\ 20 \ MHz \ CH \ BW & Output \ port: 1 \\ Restricted \ Band-Edge \ Frequency = 2.4835 \ GHz \\ Average \ Limit = 54 \ dBuV/m \\ Modulation \ Type: OFDM \ MCS15 \end{array}$



-61.58 dBm = 0.000000695 mW -61.71 dBm = 0.000000675 mW Total = 0.000000695 + 0.00000675 = 0.000001370 mW = -58.63 dBm

 $E = EIRP - 20\log D + 104.8$ = -58.63 dBm + 17 dBi - 20log 3 + 104.8 = 53.63 dBµV/m Margin = 0.37 dB (for Average limit of 54 dBµV/m)



 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{High Channel Transmit} = 2.462 \ \mbox{GHz} \\ Test software power setting: 10 \\ 20 \ \mbox{MHz CH BW} & Output port: 0 \\ Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Peak \ \mbox{Limit} = 74 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



Test Date:	03-12-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline High Channel Transmit = 2.462 GHz \\ Test software power setting: 10 \\ 20 MHz CH BW & Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 GHz \\ Peak Limit = 74 dBuV/m \\ Modulation Type: OFDM MCS15 \end{array}$



-48.01 dBm = 0.000015812 mW -45.87 dBm = 0.000025882 mW Total = 0.000015812 + 0.000025882 = 0.000041694 mW = -43.79 dBm

 $E = EIRP - 20\log D + 104.8$ = -43.79 dBm + 17 dBi - 20log 3 + 104.8 = 68.47 dBµV/m Margin = 5.53 dB (for Peak limit of 74 dBµV/m)



 $\begin{array}{l} \text{RBW} = 1 \text{MHz} \\ \text{VBW} \geq 3 \text{MHz} \\ \text{Detector} = \text{RMS} \\ \text{Trace mode} = \text{Average 200 traces} \\ \text{Low Channel Transmit} = 2.427 \text{ GHz} \\ \text{Test software power setting:} \quad 10 \\ 40 \text{ MHz CH BW} \qquad \text{Output port:} \bigcirc \\ \text{Restricted Band-Edge Frequency} = 2.390 \text{ GHz} \\ \text{Average Limit} = 54 \text{ dBuV/m} \\ \text{Modulation Type:} \qquad \text{OFDM MCS15} \end{array}$



Test Date:	03-12-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \mbox{Low Channel Transmit} = 2.427 \ \mbox{GHz} \\ Test software power setting: 10 \\ 40 \ \mbox{MHz CH BW} & Output port: 1 \\ \mbox{Restricted Band-Edge Frequency} = 2.390 \ \mbox{GHz} \\ Average Limit = 54 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



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-62.12 dBm = 0.000000614 mW -60.61 dBm = 0.000000869 mW Total = 0.000000614 + 0.000000869 = 0.000001483 mW = -58.28 dBm

 $E = EIRP - 20\log D + 104.8$ = -58.28 dBm + 17 dBi - 20log 3 + 104.8 = 53.98 dBµV/m Margin = 0.02 (for Average limit of 54 dBµV/m)

Test Date:	03-12-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{l} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline Low Channel Transmit = 2.427 \ GHz \\ Test software power setting: 10 \\ 40 \ MHz \ CH \ BW \qquad Output \ port: 0 \\ Restricted \ Band-Edge \ Frequency = 2.390 \ GHz \\ Peak \ Limit = 74 \ dBuV/m \\ Modulation \ Type: \qquad OFDM \ MCS15 \end{array}$



Test Date:	03-12-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \\ \mbox{Low Channel Transmit} = 2.427 \ \mbox{GHz} \\ Test software power setting: 10 \\ 40 \ \mbox{MHz} \ \mbox{CH} \ \mbox{BW} & Output \ \mbox{port: 1} \\ Restricted \ \mbox{Band-Edge} \ \mbox{Frequency} = 2.390 \ \mbox{GHz} \\ Peak \ \mbox{Limit} = 74 \ \mbox{dBuV/m} \\ \mbox{Modulation} \ \mbox{Type: OFDM MCS15} \end{array}$



-46.91 dBm = 0.000020370 mW -44.91 dBm = 0.000032285 mW Total = 0.000020370 + 0.000032285 = 0.000052655 mW = -42.78 dBm

 $E = EIRP - 20\log D + 104.8$ = -42.78 dBm + 17 dBi - 20log 3 + 104.8 = 69.48 dBµV/m Margin = 4.52 dB (for Peak limit of 74 dBµV/m)





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Test Date:	03-12-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 11.5 \\ 40 \mbox{ MHz CH BW} & Output port: \\ \hline \mbox{Restricted Band-Edge Frequency} = 2.390 \mbox{ GHz} \\ Average Limit = 54 \mbox{ dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



-64.05 dBm = 0.000000394 mW -59.96 dBm = 0.000001009 mW Total = 0.000000394 + 0.000001009 = 0.000001403 mW = -58.53 dBm

 $E = EIRP - 20\log D + 104.8$ = -58.53 dBm + 17 dBi - 20log 3 + 104.8 = 53.73 dBµV/m Margin = 0.27 dB (for Average limit of 54 dBµV/m)



 $VBW \ge 3MHz$ Detector = Peak Trace = Max Hold Mid Channel Transmit = 2.437 GHz Test software power setting: 11.5 40 MHz CH BW Output port: 0 Restricted Band-Edge Frequency = 2.390 GHzPeak Limit = 74 dBuV/mModulation Type: OFDM MCS15





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 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 11.5 \\ 40 \mbox{ MHz CH BW} & Output port: \\ \hline \mbox{Restricted Band-Edge Frequency} = 2.390 \mbox{ GHz} \\ Peak Limit = 74 \mbox{ dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



-49.79 dBm = 0.000010495 mW -41.12 dBm = 0.000077268 mW Total = 0.000010495 + 0.000077268 = 0.000087763 mW = -40.56 dBm

 $E = EIRP - 20\log D + 104.8$ = -40.56 dBm + 17 dBi - 20log 3 + 104.8 = 71.70 dBµV/m Margin = 2.30 dB (for Peak limit of 74 dBµV/m)





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 $\begin{array}{l} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 11.5 \\ 40 \mbox{ MHz CH BW} \qquad Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 \mbox{ GHz} \\ Average Limit = 54 \mbox{ dBuV/m} \\ Modulation Type: OFDM MCS15 \end{array}$



-62.01 dBm = 0.000000630 mW -60.95 dBm = 0.000000804 mW Total = 0.000000630 + 0.000000804 = 0.000001434 mW = -58.43 dBm

E = EIRP - 20log D + 104.8= -58.43 dBm + 17 dBi - 20log 3 + 104.8 = 53.83 dBµV/m Margin = 0.17 dB (for Average limit of 54 dBµV/m)



 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 11.5 \\ 40 \mbox{ MHz CH BW} & Output port: 0 \\ Restricted Band-Edge Frequency = 2.4835 \mbox{ GHz} \\ Peak Limit = 74 \mbox{ dBuV/m} \\ Modulation Type: OFDM MCS15 \end{array}$



Test Date:	03-12-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 11.5 \\ 40 \mbox{ MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 \mbox{ GHz} \\ Peak Limit = 74 \mbox{ dBuV/m} \\ Modulation Type: OFDM MCS15 \end{array}$



-49.75 dBm = 0.000010593 mW -45.66 dBm = 0.000027164 mW Total = 0.000010593 + 0.000027164 = 0.000037757 mW = -44.23 dBm

 $E = EIRP - 20\log D + 104.8$ = -44.23 dBm + 17 dBi - 20log 3 + 104.8 = 68.03 dBµV/m Margin = 5.97 dB (for Peak limit of 74 dBµV/m)





0 dB

Test Date:	03-12-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \mbox{High Channel Transmit} = 2.452 \mbox{ GHz} \\ Test software power setting: 6.5 \\ 40 \ MHz \ CH \ BW \qquad Output \ port: 1 \\ Restricted \ Band-Edge \ Frequency = 2.4835 \ GHz \\ Average \ Limit = 54 \ dBuV/m \\ Modulation \ Type: \qquad OFDM \ MCS15 \end{array}$





-62.36 dBm = 0.000000581 mW -60.90 dBm = 0.000000813 mW Total = 0.000000581 + 0.000000813 = 0.000001394 mW = -58.55 dBm

 $E = EIRP - 20\log D + 104.8$ = -58.55 dBm + 17 dBi - 20log 3 + 104.8 = 53.71 dBµV/m Margin = 0.29 dB (for Average limit of 54 dBµV/m)
Test Date:	03-12-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{High Channel Transmit} = 2.452 \ \mbox{GHz} \\ Test software power setting: 6.5 \\ 40 \ \mbox{MHz CH BW} & Output port: 0 \\ Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Peak \ \mbox{Limit} = 74 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



Test Date:	03-12-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline High Channel Transmit = 2.452 GHz \\ Test software power setting: 6.5 \\ 40 MHz CH BW & Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 GHz \\ Peak Limit = 74 dBuV/m \\ Modulation Type: OFDM MCS15 \end{array}$



-44.91 dBm = 0.000032285 mW -45.84 dBm = 0.000026062 mW Total = 0.000032285 + 0.000026062 = 0.000058347 mW = -42.33 dBm

 $E = EIRP - 20\log D + 104.8$ = -42.33 dBm + 17 dBi - 20log 3 + 104.8 = 69.93 dBµV/m Margin = 4.07 dB (for Peak limit of 74 dBµV/m)



 $\begin{array}{l} \text{RBW} = 1 \text{MHz} \\ \text{VBW} \geq 3 \text{MHz} \\ \text{Detector} = \text{RMS} \\ \text{Trace mode} = \text{Average 200 traces} \\ \hline \text{Low Channel Transmit} = 2.412 \text{ GHz} \\ \text{Test software power setting:} \quad 10.5 \\ 20 \text{ MHz CH BW} \qquad \text{Output port:} \\ \hline \text{0} \\ \text{Restricted Band-Edge Frequency} = 2.390 \text{ GHz} \\ \text{Average Limit} = 54 \text{ dBuV/m} \\ \text{Modulation Type:} \qquad \text{OFDM MCS15} \\ \end{array}$



Test Date:	03-14-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \mbox{Low Channel Transmit} = 2.412 \ \mbox{GHz} \\ Test software power setting: 10.5 \\ 20 \ \mbox{MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.390 \ \mbox{GHz} \\ Average Limit = 54 \ \mbox{dBuV/m} \\ Modulation Type: OFDM MCS15 \end{array}$



-63.86 dBm = 0.000000411 mW -64.61 dBm = 0.000000346 mW Total = 0.000000411 + 0.000000346 = 0.000000757 mW = -61.20 dBm

 $E = EIRP - 20\log D + 104.8$ = -61.20 dBm + 19 dBi - 20log 3 + 104.8 = 53.06 dBµV/m Margin = 0.94 (for Average limit of 54 dBµV/m)

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 $\begin{array}{l} \text{RBW} = 1 \text{MHz} \\ \text{VBW} \geq 3 \text{MHz} \\ \text{Detector} = \text{Peak} \\ \text{Trace} = \text{Max Hold} \\ \hline \textbf{Low Channel Transmit} = 2.412 \text{ GHz} \\ \text{Test software power setting:} \quad 10.5 \\ 20 \text{ MHz CH BW} \qquad \text{Output port: } \hline \textbf{0} \\ \text{Restricted Band-Edge Frequency} = 2.390 \text{ GHz} \\ \text{Peak Limit} = 74 \text{ dBuV/m} \\ \text{Modulation Type:} \qquad \text{OFDM MCS15} \end{array}$



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 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \\ \textbf{Low Channel Transmit = 2.412 GHz} \\ Test software power setting: 10.5 \\ 20 MHz CH BW & Output port: \\ \hline \\ Restricted Band-Edge Frequency = 2.390 GHz \\ Peak Limit = 74 dBuV/m \\ Modulation Type: OFDM MCS15 \end{array}$



-44.82 dBm = 0.000032961 mW -47.07 dBm = 0.000019634 mW Total = 0.000032961 + 0.000019634 = 0.000052595 mW = -42.79 dBm

 $E = EIRP - 20\log D + 104.8$ = -42.79 dBm + 19 dBi - 20log 3 + 104.8 = 71.47 dBµV/m Margin = 2.53 dB (for Peak limit of 74 dBµV/m)





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Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B



-67.79 dBm = 0.000000166 mW -65.84 dBm = 0.000000261 mW Total = 0.000000166 + 0.000000261 = 0.000000427 mW = -63.69 dBm

 $E = EIRP - 20\log D + 104.8$ = -63.69 dBm + 19 dBi - 20log 3 + 104.8 = 50.57 dBµV/m Margin = 3.43 dB (for Average limit of 54 dBµV/m)

Test Date:	03-14-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

RBW = 1MHz $VBW \ge 3MHz$ Detector = Peak Trace = Max Hold Mid Channel Transmit = 2.437 GHz Test software power setting: 15 20 MHz CH BW Output port: 0 Restricted Band-Edge Frequency = 2.390 GHzPeak Limit = 74 dBuV/mModulation Type: OFDM MCS15





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Test Date:	03-14-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 15 \\ 20 \mbox{ MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.390 \mbox{ GHz} \\ Peak Limit = 74 \mbox{ dBuV/m} \\ Modulation Type: OFDM MCS15 \end{array}$



Date: 14.MAR.2014 13:09:30

-54.96 dBm = 0.000003192 mW -53.56 dBm = 0.000004406 mW Total = 0.000003192 + 0.000004406 = 0.000007598 mW = -51.19 dBm

 $E = EIRP - 20\log D + 104.8$ = -51.19 dBm + 19 dBi - 20log 3 + 104.8 = 63.07 dBµV/m Margin = 10.93 dB (for Peak limit of 74 dBµV/m)





Test Date:	03-14-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline \mbox{Mid Channel Transmit} = 2.437 \ \mbox{GHz} \\ Test software power setting: 15 \\ 20 \ \mbox{MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Average Limit = 54 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



-62.98 dBm = 0.000000504 mW -64.16 dBm = 0.000000384 mW Total = 0.000000504 + 0.000000384 = 0.000000888 mW = -60.51 dBm

E = EIRP - 20log D + 104.8= -60.51 dBm + 19 dBi - 20log 3 + 104.8 = 53.75 dBµV/m Margin = 0.25 dB (for Average limit of 54 dBµV/m)

Test Date:	03-14-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \ \mbox{GHz} \\ Test software power setting: 15 \\ 20 \ \mbox{MHz CH BW} & Output port: 0 \\ Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Peak \ \mbox{Limit} = 74 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



Test Date:	03-14-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 15 \\ 20 \mbox{ MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 \mbox{ GHz} \\ Peak Limit = 74 \mbox{ dBuV/m} \\ Modulation Type: OFDM MCS15 \end{array}$



-50.64 dBm = 0.000008630 mW -53.15 dBm = 0.000004842 mW Total = 0.000008630 + 0.000004842 = 0.000013472 mW = -48.70 dBm

E = EIRP - 20log D + 104.8= -48.70 dBm + 19 dBi - 20log 3 + 104.8 = 65.56 dBµV/m Margin = 8.44 dB (for Peak limit of 74 dBµV/m)





Test Date:	03-14-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B



-63.42 dBm = 0.000000455 mW -63.28 dBm = 0.000000470 mW Total = 0.000000455 + 0.000000470 = 0.000000925 mW = -60.33 dBm

 $E = EIRP - 20\log D + 104.8$ = -60.33 dBm + 19 dBi - 20log 3 + 104.8 = 53.93 dBµV/m Margin = 0.07 dB (for Average limit of 54 dBµV/m)



 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{High Channel Transmit} = 2.462 \ \mbox{GHz} \\ Test software power setting: 9 \\ 20 \ \mbox{MHz CH BW} & Output port: 0 \\ Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Peak \ \mbox{Limit} = 74 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$





 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline High Channel Transmit = 2.462 GHz \\ Test software power setting: 9 \\ 20 MHz CH BW & Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 GHz \\ Peak Limit = 74 dBuV/m \\ Modulation Type: OFDM MCS15 \end{array}$



-48.38 dBm = 0.000014521 mW -47.70 dBm = 0.000016982 mW Total = 0.000014521 + 0.000016982 = 0.000031503 mW = -45.01 dBm

 $E = EIRP - 20\log D + 104.8$ = -45.01 dBm + 19 dBi - 20log 3 + 104.8 = 69.25 dBµV/m Margin = 4.75 dB (for Peak limit of 74 dBµV/m)



 $\begin{array}{l} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hlineleft Low Channel Transmit = 2.427 GHz \\ Test software power setting: 9 \\ 40 MHz CH BW Output port: 0 \\ Restricted Band-Edge Frequency = 2.390 GHz \\ Average Limit = 54 dBuV/m \\ Modulation Type: OFDM MCS15 \end{array}$



Test Date:	03-14-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hlineleft Low Channel Transmit = 2.427 GHz \\ Test software power setting: 9 \\ 40 MHz CH BW Output port: 1 \\ Restricted Band-Edge Frequency = 2.390 GHz \\ Average Limit = 54 dBuV/m \\ Modulation Type: OFDM MCS15 \end{array}$



-64.85 dBm = 0.000000327 mW -62.77 dBm = 0.000000528 mW Total = 0.000000327 + 0.000000528 = 0.000000855 mW = -60.67 dBm

E = EIRP - 20log D + 104.8= -60.67 dBm + 19 dBi - 20log 3 + 104.8 = 53.59 dBµV/m Margin = 0.41 (for Average limit of 54 dBµV/m)

Test Date:	03-14-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline Low Channel Transmit = 2.427 \ GHz \\ Test software power setting: 9 \\ 40 \ MHz \ CH \ BW \qquad Output \ port: 0 \\ Restricted \ Band-Edge \ Frequency = 2.390 \ GHz \\ Peak \ Limit = 74 \ dBuV/m \\ Modulation \ Type: \qquad OFDM \ MCS15 \end{array}$





 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline Low Channel Transmit = 2.427 GHz \\ Test software power setting: 9 \\ 40 MHz CH BW & Output port: \\ \hline \\ Restricted Band-Edge Frequency = 2.390 GHz \\ Peak Limit = 74 dBuV/m \\ Modulation Type: OFDM MCS15 \end{array}$



-50.22 dBm = 0.000009506 mW -47.26 dBm = 0.000018793 mW Total = 0.000009506 + 0.000018793 = 0.000028299 mW = -45.48 dBm

 $E = EIRP - 20\log D + 104.8$ = -45.48 dBm + 19 dBi - 20log 3 + 104.8 = 68.78 dBµV/m Margin = 5.22 dB (for Peak limit of 74 dBµV/m)





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Test Date:	03-14-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline \mbox{Mid Channel Transmit} = 2.437 \ \mbox{GHz} \\ Test software power setting: 10 \\ 40 \ \mbox{MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.390 \ \mbox{GHz} \\ Average Limit = 54 \ \mbox{dBuV/m} \\ Modulation Type: OFDM MCS15 \end{array}$



-69.61 dBm = 0.000000109 mW -65.43 dBm = 0.000000286 mW Total = 0.000000109 + 0.000000286 = 0.000000395 mW = -64.02 dBm

 $E = EIRP - 20\log D + 104.8$ = -64.02 dBm + 19 dBi - 20log 3 + 104.8 = 50.24 dBµV/m Margin = 3.76 dB (for Average limit of 54 dBµV/m)



RBW = 1MHz $VBW \ge 3MHz$ Detector = Peak Trace = Max Hold Mid Channel Transmit = 2.437 GHz Test software power setting: 10 40 MHz CH BW Output port: 0 Restricted Band-Edge Frequency = 2.390 GHzPeak Limit = 74 dBuV/mModulation Type: OFDM MCS15





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Test Date:	03-14-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 10 \\ 40 \mbox{ MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.390 \mbox{ GHz} \\ Peak \mbox{ Limit} = 74 \mbox{ dBuV/m} \\ Modulation Type: OFDM \mbox{ MCS15} \end{array}$



-56.49 dBm = 0.000002244 mW -49.84 dBm = 0.000010375 mW Total = 0.000002244 + 0.000010375 = 0.000012619 mW = -48.98 dBm

 $E = EIRP - 20\log D + 104.8$ = -48.98 dBm + 19 dBi - 20log 3 + 104.8 = 65.28 dBµV/m Margin = 8.72 dB (for Peak limit of 74 dBµV/m)





Test Date:	03-14-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline \mbox{Mid Channel Transmit} = 2.437 \ \mbox{GHz} \\ Test software power setting: 10 \\ 40 \ \mbox{MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Average Limit = 54 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



-64.00 dBm = 0.000000398 mW -63.09 dBm = 0.000000491 mW Total = 0.000000398 + 0.000000491 = 0.000000889 mW = -60.51 dBm

 $E = EIRP - 20\log D + 104.8$ = -60.51 dBm + 19 dBi - 20log 3 + 104.8 = 53.75 dBµV/m Margin = 0.25 dB (for Average limit of 54 dBµV/m)

Test Date:	03-14-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \ \mbox{GHz} \\ Test software power setting: 10 \\ 40 \ \mbox{MHz CH BW} & Output port: 0 \\ Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Peak \ \mbox{Limit} = 74 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$





 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \ \mbox{GHz} \\ Test software power setting: 10 \\ 40 \ \mbox{MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Peak Limit = 74 \ \mbox{dBuV/m} \\ Modulation Type: OFDM MCS15 \end{array}$



-51.97 dBm = 0.000006353 mW -48.25 dBm = 0.000014962 mW Total = 0.000006353 + 0.000014962 = 0.000021315 mW = -46.71 dBm

 $E = EIRP - 20\log D + 104.8$ = -46.71 dBm + 19 dBi - 20log 3 + 104.8 = 67.55 dBµV/m Margin = 6.45 dB (for Peak limit of 74 dBµV/m)





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Test Date:	03-14-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline High Channel Transmit = 2.452 GHz \\ Test software power setting: 4.5 \\ 40 MHz CH BW Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 GHz \\ Average Limit = 54 dBuV/m \\ Modulation Type: OFDM MCS15 \end{array}$





-63.73 dBm = 0.000000424 mW -62.99 dBm = 0.000000502 mW Total = 0.000000424 + 0.000000502 = 0.000000926 mW = -60.33 dBm

 $E = EIRP - 20\log D + 104.8$ = -60.33 dBm + 19 dBi - 20log 3 + 104.8 = 53.93 dBµV/m Margin = 0.07 dB (for Average limit of 54 dBµV/m)

Test Date:	03-14-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{High Channel Transmit} = 2.452 \ \mbox{GHz} \\ Test software power setting: 4.5 \\ 40 \ \mbox{MHz CH BW} & Output port: 0 \\ Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Peak \ \mbox{Limit} = 74 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



Test Date:	03-14-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{High Channel Transmit} = 2.452 \ \mbox{GHz} \\ Test software power setting: 4.5 \\ 40 \ \mbox{MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Peak \ \mbox{Limit} = 74 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



-45.72 dBm = 0.000026792 mW -45.30 dBm = 0.000029512 mW Total = 0.000026792 + 0.000029512 = 0.000056304 mW = -42.49 dBm

 $E = EIRP - 20\log D + 104.8$ = -42.49 dBm + 19 dBi - 20log 3 + 104.8 = 71.77 dBµV/m Margin = 2.23 dB (for Peak limit of 74 dBµV/m)



 $\begin{array}{l} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline Low Channel Transmit = 2.412 GHz \\ Test software power setting: 7 \\ 20 MHz CH BW Output port: 0 \\ Restricted Band-Edge Frequency = 2.390 GHz \\ Average Limit = 54 dBuV/m \\ Modulation Type: OFDM MCS15 \end{array}$



Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \mbox{Low Channel Transmit} = 2.412 \ \mbox{GHz} \\ Test software power setting: 7 \\ 20 \ \mbox{MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.390 \ \mbox{GHz} \\ Average Limit = 54 \ \mbox{dBuV/m} \\ Modulation Type: OFDM MCS15 \end{array}$



-69.65 dBm = 0.000000108 mW -69.59 dBm = 0.000000110 mW Total = 0.000000108 + 0.000000110 = 0.000000218 mW = -66.60 dBm

 $E = EIRP - 20\log D + 104.8$ = -66.60 dBm + 25 dBi - 20log 3 + 104.8 = 53.66 dBµV/m Margin = 0.34 (for Average limit of 54 dBµV/m)
Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline Low Channel Transmit = 2.412 \ GHz \\ Test software power setting: 7 \\ 20 \ MHz \ CH \ BW \qquad Output \ port: 0 \\ Restricted \ Band-Edge \ Frequency = 2.390 \ GHz \\ Peak \ Limit = 74 \ dBuV/m \\ Modulation \ Type: \qquad OFDM \ MCS15 \end{array}$



Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \\ \mbox{Low Channel Transmit} = 2.412 \ \mbox{GHz} \\ Test software power setting: 7 \\ 20 \ \mbox{MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.390 \ \mbox{GHz} \\ Peak \ \mbox{Limit} = 74 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



-53.73 dBm = 0.000004236 mW -53.47 dBm = 0.000004498 mW Total = 0.000004236 + 0.000004498 = 0.000008734 mW = -50.58 dBm

 $E = EIRP - 20\log D + 104.8$ = -50.58 dBm + 25 dBi - 20log 3 + 104.8 = 69.68 dBµV/m Margin = 4.32 dB (for Peak limit of 74 dBµV/m)



Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

RBW = 1MHz $VBW \ge 3MHz$ Detector = RMS Trace mode = Average 200 traces Mid Channel Transmit = 2.437 GHz Test software power setting: 7 20 MHz CH BW Output port: 1 Restricted Band-Edge Frequency = 2.390 GHz Average Limit = 54 dBuV/m



-73.53 dBm = 0.000000044 mW -71.25 dBm = 0.000000075 mW Total = 0.000000044 + 0.000000075 = 0.000000119 mW = -69.24 dBm

 $E = EIRP - 20\log D + 104.8$ = -69.24 dBm + 25 dBi - 20log 3 + 104.8 = 51.02 dBµV/m Margin = 2.98 dB (for Average limit of 54 dBµV/m)

Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 7 \\ 20 \mbox{ MHz CH BW} & Output port: 0 \\ Restricted Band-Edge Frequency = 2.390 \mbox{ GHz} \\ Peak Limit = 74 \mbox{ dBuV/m} \\ Modulation Type: OFDM MCS15 \end{array}$



Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 7 \\ 20 \mbox{ MHz CH BW} & Output port: \\ \hline \mbox{Restricted Band-Edge Frequency} = 2.390 \mbox{ GHz} \\ Peak Limit = 74 \mbox{ dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



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-60.88 dBm = 0.000000817 mW -59.19 dBm = 0.000001205 mW Total = 0.000000817 + 0.000001205 = 0.000002022 mW = -56.94 dBm

 $E = EIRP - 20\log D + 104.8$ = -56.94 dBm + 25 dBi - 20log 3 + 104.8 = 63.32 dBµV/m Margin = 10.68 dB (for Peak limit of 74 dBµV/m)



 $\begin{array}{l} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline \mbox{Mid Channel Transmit} = 2.437 \ \mbox{GHz} \\ Test software power setting: 7 \\ 20 \ \mbox{MHz CH BW} \qquad Output port: 0 \\ Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Average Limit = 54 \ \mbox{dBuV/m} \end{array}$



Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{l} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline \mbox{Mid Channel Transmit} = 2.437 \ \mbox{GHz} \\ Test software power setting: 7 \\ 20 \ \mbox{MHz CH BW} \qquad Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Average Limit = 54 \ \mbox{dBuV/m} \end{array}$





-69.66 dBm = 0.000000108 mW -69.97 dBm = 0.000000101 mW Total = 0.000000108 + 0.000000101 = 0.000000209 mW = -66.80 dBm

E = EIRP - 20log D + 104.8= -66.80 dBm + 25 dBi - 20log 3 + 104.8 = 53.46 dBµV/m Margin = 0.54 dB (for Average limit of 54 dBµV/m)

Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

RBW = 1MHz $VBW \ge 3MHz$ Detector = Peak Trace = Max Hold Mid Channel Transmit = 2.437 GHz Test software power setting: 7 20 MHz CH BW Output port: 0 Restricted Band-Edge Frequency = 2.4835 GHz Peak Limit = 74 dBuV/mModulation Type: OFDM MCS15





Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 7 \\ 20 \mbox{ MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 \mbox{ GHz} \\ Peak Limit = 74 \mbox{ dBuV/m} \\ Modulation Type: OFDM MCS15 \end{array}$



-58.18 dBm = 0.000001521 mW -59.42 dBm = 0.000001143 mW Total = 0.000001521 + 0.000001143 = 0.000002664 mW = -55.74 dBm

 $E = EIRP - 20\log D + 104.8$ = -55.74 dBm + 25 dBi - 20log 3 + 104.8 = 64.52 dB μ V/m Margin = 9.48 dB (for Peak limit of 74 dB μ V/m)





Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \mbox{High Channel Transmit} = 2.462 \mbox{ GHz} \\ Test software power setting: 2.5 \\ 20 \ MHz \ CH \ BW \qquad Output \ port: 1 \\ Restricted \ Band-Edge \ Frequency = 2.4835 \ GHz \\ Average \ Limit = 54 \ dBuV/m \\ Modulation \ Type: \qquad OFDM \ MCS15 \end{array}$





-70.66 dBm = 0.000000086 mW -70.86 dBm = 0.000000082 mW Total = 0.000000086 + 0.00000082 = 0.000000168 mW = -67.74 dBm

 $E = EIRP - 20\log D + 104.8$ = -67.74 dBm + 25 dBi - 20log 3 + 104.8 = 52.52 dBµV/m Margin = 1.48 dB (for Average limit of 54 dBµV/m)

Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{High Channel Transmit} = 2.462 \ \mbox{GHz} \\ Test software power setting: 2.5 \\ 20 \ \mbox{MHz CH BW} & Output port: 0 \\ Restricted Band-Edge \ \mbox{Frequency} = 2.4835 \ \mbox{GHz} \\ Peak \ \mbox{Limit} = 74 \ \mbox{dBuV/m} \\ \hline \mbox{Modulation Type: OFDM MCS15} \end{array}$



Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline High Channel Transmit = 2.462 GHz \\ Test software power setting: 2.5 \\ 20 MHz CH BW & Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 GHz \\ Peak Limit = 74 dBuV/m \\ Modulation Type: OFDM MCS15 \end{array}$



-57.83 dBm = 0.000001648 mW -58.55 dBm = 0.000001396 mW Total = 0.000001648 + 0.000001396 = 0.000003044 mW = -55.16 dBm

 $E = EIRP - 20\log D + 104.8$ = -55.16 dBm + 25 dBi - 20log 3 + 104.8 = 65.10 dBµV/m Margin = 8.90 dB (for Peak limit of 74 dBµV/m)

Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

RBW = 1MHz $VBW \ge 3MHz$ Detector = RMSTrace mode = Average 200 traces Low Channel Transmit = 2.427 GHz Test software power setting: 4.5 40 MHz CH BW Output port: 0 Restricted Band-Edge Frequency = 2.390 GHzAverage Limit = 54 dBuV/mModulation Type: OFDM MCS15





15.MAR.2014 17:14:16

Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \mbox{Low Channel Transmit} = 2.427 \ \mbox{GHz} \\ Test software power setting: 4.5 \\ 40 \ \mbox{MHz CH BW} & Output port: 1 \\ \mbox{Restricted Band-Edge Frequency} = 2.390 \ \mbox{GHz} \\ Average Limit = 54 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



-70.04 dBm = 0.000000099 mW -68.84 dBm = 0.000000131 mW Total = 0.000000099 + 0.000000131 = 0.000000230 mW = -66.38 dBm

 $E = EIRP - 20\log D + 104.8$ = -66.38 dBm + 25 dBi - 20log 3 + 104.8 = 53.88 dBµV/m Margin = 0.12 (for Average limit of 54 dBµV/m)

Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

RBW = 1MHz $VBW \ge 3MHz$ Detector = Peak Trace = Max Hold Low Channel Transmit = 2.427 GHz Test software power setting: 4.5 40 MHz CH BW Output port: 0 Restricted Band-Edge Frequency = 2.390 GHzPeak Limit = 74 dBuV/mModulation Type: OFDM MCS15





15.MAR.2014 17:23:12

Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \\ \mbox{Low Channel Transmit} = 2.427 \ \mbox{GHz} \\ Test software power setting: 4.5 \\ 40 \ \mbox{MHz} \ \mbox{CH} \ \mbox{BW} & Output \ \mbox{port: 1} \\ Restricted \ \mbox{Band-Edge} \ \mbox{Frequency} = 2.390 \ \mbox{GHz} \\ Peak \ \mbox{Limit} = 74 \ \mbox{dBuV/m} \\ \mbox{Modulation} \ \mbox{Type: OFDM MCS15} \end{array}$



Date: 15.MAR.2014 17:20:22

-56.86 dBm = 0.000002061 mW -55.17 dBm = 0.000003041 mW Total = 0.000002061 + 0.000003041 = 0.000005102 mW = -52.92 dBm

 $E = EIRP - 20\log D + 104.8$ = -52.92 dBm + 25 dBi - 20log 3 + 104.8 = 67.34 dBµV/m Margin = 6.66 dB (for Peak limit of 74 dBµV/m)



Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 4.5 \\ 40 \mbox{ MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.390 \mbox{ GHz} \\ Average Limit = 54 \mbox{ dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



-73.79 dBm = 0.000000042 mW -71.48 dBm = 0.000000071 mW Total = 0.000000042 + 0.00000071 = 0.000000113 mW = -69.47 dBm

 $E = EIRP - 20\log D + 104.8$ = -69.47 dBm + 25 dBi - 20log 3 + 104.8 = 50.79 dBµV/m Margin = 3.21 dB (for Average limit of 54 dBµV/m)











15.MAR.2014 16:02:44



 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 4.5 \\ 40 \mbox{ MHz CH BW} & Output port: \\ \hline \mbox{Restricted Band-Edge Frequency} = 2.390 \mbox{ GHz} \\ Peak Limit = 74 \mbox{ dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



-61.28 dBm = 0.000000745 mW -59.90 dBm = 0.000001023 mW Total = 0.000000745 + 0.000001023 = 0.000001768 mW = -57.52 dBm

 $E = EIRP - 20\log D + 104.8$ = -57.52 dBm + 25 dBi - 20log 3 + 104.8 = 62.74 dBµV/m Margin = 11.26 dB (for Peak limit of 74 dBµV/m)





Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 4.5 \\ 40 \ MHz \ CH \ BW \qquad Output \ port: 1 \\ Restricted \ Band-Edge \ Frequency = 2.4835 \ GHz \\ Average \ Limit = 54 \ dBuV/m \\ Modulation \ Type: \qquad OFDM \ MCS15 \end{array}$



-69.25 dBm = 0.000000119 mW -69.44 dBm = 0.000000114 mW Total = 0.000000119 + 0.000000114 = 0.000000233 mW = -66.32 dBm

 $E = EIRP - 20\log D + 104.8$ = -66.32 dBm + 25 dBi - 20log 3 + 104.8 = 53.94 dBµV/m Margin = 0.06 dB (for Average limit of 54 dBµV/m)

Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \ \mbox{GHz} \\ Test software power setting: 4.5 \\ 40 \ \mbox{MHz CH BW} & Output port: 0 \\ Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Peak \ \mbox{Limit} = 74 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{Mid Channel Transmit} = 2.437 \mbox{ GHz} \\ Test software power setting: 4.5 \\ 40 \mbox{ MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 \mbox{ GHz} \\ Peak Limit = 74 \mbox{ dBuV/m} \\ Modulation Type: OFDM MCS15 \end{array}$



Date: 15.MAR.2014 15:50:25

-57.96 dBm = 0.000001600 mW -57.05 dBm = 0.000001972 mW Total = 0.000001600 + 0.000001972 = 0.000003572 mW = -54.47 dBm

 $E = EIRP - 20\log D + 104.8$ = -54.47 dBm + 25 dBi - 20log 3 + 104.8 = 65.79 dBµV/m Margin = 8.21 dB (for Peak limit of 74 dBµV/m)





15.MAR.2014 16:53:57

Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{l} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = RMS \\ Trace mode = Average 200 traces \\ \hline High Channel Transmit = 2.447 GHz \\ Test software power setting: 2.5 \\ 40 MHz CH BW Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 GHz \\ Average Limit = 54 dBuV/m \\ Modulation Type: OFDM MCS15 \end{array}$



Date: 15.MAR.2014 16:51:41

-69.90 dBm = 0.000000102 mW -69.59 dBm = 0.000000110 mW Total = 0.000000102 + 0.000000110 = 0.000000212 mW = -66.72 dBm

 $E = EIRP - 20\log D + 104.8$ = -66.72 dBm + 25 dBi - 20log 3 + 104.8 = 53.54 dBµV/m Margin = 0.46 dB (for Average limit of 54 dBµV/m)

Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{High Channel Transmit} = 2.447 \ \mbox{GHz} \\ Test software power setting: 2.5 \\ 40 \ \mbox{MHz CH BW} & Output port: 0 \\ Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Peak \ \mbox{Limit} = 74 \ \mbox{dBuV/m} \\ \mbox{Modulation Type: OFDM MCS15} \end{array}$



Test Date:	03-15-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Band-Edge Measurements – RF Conducted
Operator:	Craig B

 $\begin{array}{ll} RBW = 1 MHz \\ VBW \geq 3 MHz \\ Detector = Peak \\ Trace = Max Hold \\ \hline \mbox{High Channel Transmit} = 2.447 \ \mbox{GHz} \\ Test software power setting: 2.5 \\ 40 \ \mbox{MHz CH BW} & Output port: 1 \\ Restricted Band-Edge Frequency = 2.4835 \ \mbox{GHz} \\ Peak \ \mbox{Limit} = 74 \ \mbox{dBuV/m} \\ Modulation Type: OFDM \ \mbox{MCS15} \end{array}$





-55.75 dBm = 0.000002661 mW -55.72 dBm = 0.000002679 mW Total = 0.000002661 + 0.000002679 = 0.000005340 mW = -52.72 dBm

 $E = EIRP - 20\log D + 104.8$ = -52.72 dBm + 25 dBi - 20log 3 + 104.8 = 67.54 dBµV/m Margin = 6.46 dB (for Peak limit of 74 dBµV/m)



Cambium Networks C024900P021A & C024900P031A 19738 6334

Appendix B – Measurement Data

B11.0 Duty Cycle of Test Unit

Rule Part:	FCC Section 15.35(c)
Test Procedure:	ANSI C63.10-2009 Section 7.5
Limits:	Informative
Results:	EUT is continuously transmitting (duty cycle = 100%).
Sample Equations:	None

Notes: No duty cycle correction factor was applied to measurements for this device.

Test Date:	03-05-2014
Company:	Cambium Networks
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680
Test:	Duty Cycle during testing
Operator:	Craig B
	20 MHz channel bandwidth; OFDM MCS15
a i	D 1 1000/

Comment: Duty cycle = 100%



Test Date:	03-05-2014					
Company:	Cambium Networks					
EUT:	EPMP 2.4 GHz STA MAC: 000456C69680					
Test:	Duty Cycle during testing					
Operator:	Craig B					
-	40 MHz channel bandwidth; OFDM MCS15					
a i	D 1 1000/					

Comment: Duty cycle = 100%





166 South Carter, Genoa City, WI 53128

Appendix B – Measurement Data

Cambium Networks C024900P021A & C024900P031A 19738 6334

B12.0 AC Line Conducted Emissions

- Rule Part:FCC Part 15.207
- Test Procedure: ANSI C63.10-2009 Section 6.2
- Limit: FCC Part 15.207(a)
- **Results:** Compliant
- Notes: This was an AC Conducted emissions measurement. The EUT was powered from a representative AC Adapter with an input of 120 VAC 60 Hz.

FCC Part 15.207

Voltage Mains Test

EUT:	EPMP 2.4 GHz STA					
Manufacturer:	Cambium Networks					
Operating Condition:	72 deg. F, 21% R.H.					
Test Site:	DLS O.F. Screen Room					
Operator:	Craig B					
Test Specification:	120 V 60 Hz					
Comment:	Line 1; continuous Tx					
	Date: 01-24-2014					

SCAN TABLE: "Line Cond SR Final"

Short Description: 1			Line Conducted Emissions			
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
150.0 kHz	30.0 MHz	4.0 kHz	QuasiPeak	3.0 s	9 kHz	LISN DLS#128
			CISPR AV			



MEASUREMENT RESULT: "124bL1_fin"

1/24/2014 3:59PM						
Frequenc	y Level	Transd	Limit	Margin	Detector	
MH	z dBµV	dB	dBµV	dB		
0.15320	0 45.00	13.7	66	20.8	QP	
0.16140	0 45.70	13.5	65	19.7	QP	
0.18340	0 52.60	13.0	64	11.7	QP	
0.18440	0 53.00	13.0	64	11.3	QP	
0.20220	0 45.70	12.8	64	17.8	QP	
0.37880	0 46.20	11.6	58	12.1	QP	
0.90000	0 38.60	10.8	56	17.4	QP	
1.43600	0 39.50	10.6	56	16.5	QP	
2.10000	0 39.30	10.6	56	16.7	QP	
3.07200	0 39.30	10.7	56	16.7	QP	
3.67200	0 36.60	10.7	56	19.4	QP	
3.75200	0 36.50	10.7	56	19.5	QP	
5.80100	0 33.60	10.7	60	26.4	QP	
26.60900	0 38.40	11.6	60	21.6	QP	
27.15800	0 38.70	11.6	60	21.3	QP	
29.23700	0 40.20	11.6	60	19.8	QP	
29.96600	0 39.10	11.6	60	20.9	QP	

MEASUREMENT RESULT: "124bL1_fin2"

1/0//001/	2.500	74				
I/24/2014 Frequen M	3.59P Cy Hz	M Level 7 dBµV	Iransd dB	Limit dBµV	Margin dB	Detector
0.1832	00	40.00	13.0	54	14.3	CAV
0.1862	00	41.50	13.0	54	12.7	CAV
0.2508	00	34.20	12.2	52	17.5	CAV
0.3110	00	34.80	11.9	50	15.1	CAV
0.3764	00	38.90	11.6	48	9.5	CAV
0.4932	00	28.10	11.2	46	18.0	CAV
0.6800	00	30.90	10.9	46	15.1	CAV
0.9240	00	31.00	10.8	46	15.0	CAV
1.4280	00	30.80	10.6	46	15.2	CAV
1.6680	00	31.20	10.7	46	14.8	CAV
3.2320	00	30.70	10.7	46	15.3	CAV
3.4200	00	30.00	10.7	46	16.0	CAV
18.3650	00	35.80	11.3	50	14.2	CAV
26.6090	00	35.40	11.6	50	14.6	CAV
27.1580	00	35.40	11.6	50	14.6	CAV
29.2370	00	36.50	11.6	50	13.5	CAV
29.7860	00	33.60	11.6	50	16.4	CAV
29.9660	00	35.20	11.6	50	14.8	CAV
FCC Part 15.207

Voltage Mains Test

EUT:	EPMP 2.4 GHz STA
Manufacturer:	Cambium Networks
Operating Condition:	72 deg. F, 21% R.H.
Test Site:	DLS O.F. Screen Room
Operator:	Craig B
Test Specification:	120 V 60 Hz
Comment:	Line 2; continuous Tx
	Date: 01-24-2014

SCAN TABLE: "Line Cond SR Final"

Short Desc	Short Description: Line Conducted Emissions					
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
150.0 kHz	30.0 MHz	4.0 kHz	QuasiPeak	3.0 s	9 kHz	LISN DLS#128
			CISPR AV			



MEASUREMENT RESULT: "124aL2_fin"

1/24/2014 3:	52PM				
Frequency	Level	Transd	Limit	Margin	Detector
MHz	dBµV	dB	dBµV	dB	
0.182600	53.10	13.0	64	11.3	QP
0.185600	54.80	13.0	64	9.4	QP
0.201000	48.70	12.8	64	14.9	QP
0.204200	46.00	12.8	63	17.4	QP
0.204800	45.50	12.8	63	17.9	QP
0.384000	46.70	11.6	58	11.5	QP
0.90000	40.30	10.8	56	15.7	QP
1.184000	40.40	10.7	56	15.6	QP
1.408000	40.70	10.6	56	15.3	QP
1.608000	40.70	10.7	56	15.3	QP
1.968000	39.70	10.6	56	16.3	QP
3.248000	39.10	10.7	56	16.9	QP
5.657000	34.10	10.7	60	25.9	QP
18.239000	37.00	11.3	60	23.0	QP
18.302000	38.80	11.3	60	21.2	QP
26.546000	37.30	11.6	60	22.7	QP
27.158000	39.20	11.6	60	20.8	QP
29.480000	37.20	11.6	60	22.8	QP

MEASUREMENT RESULT: "124aL2_fin2"

1/24/2014	2 · E 2DM				
Frequence MI	cy Level Hz dBµV	Transd dB	Limit dBµV	Margin dB	Detector
0.1842 0.1906 0.2518 0.3118 0.3834 0.4558 0.6800 0.9240 1.1720 1.9240 3.2600 3.4160 18.3020 18.9140 26.6090 27.1580	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13.0 12.9 12.2 11.8 11.6 11.3 10.9 10.8 10.7 10.6 10.7 10.7 11.3 11.3 11.6 11.6	54 52 50 48 47 46 46 46 46 46 50 50 50 50	13.8 11.7 16.9 16.2 19.0 15.6 15.7 15.4 15.8 15.3 16.5 13.6 15.8 14.4 14.3	CAV CAV CAV CAV CAV CAV CAV CAV CAV CAV
29.2370	36.70	11.6	50	13.3	CAV



166 South Carter, Genoa City, WI 53128

Company: Model Tested: Report Number: DLS Project: Cambium Networks C024900P021A & C024900P031A 19738 6334

END OF REPORT

Revision #	Date	Comments	By
1.0	03-18-2014	Preliminary Release	JS