RF TEST REPORT



Report No.: FCC_RF_SL15060501-CPC-006_UNII Supersede Report No.:

Applicant	:	ChargePoint, Inc
Product Name	:	Network Communication
Model No.	:	28010077
Test Standard	:	47 CFR 15.407
Test Method		ANSI C63.10: 2013 789033 D02 General UNII Test Procedures New Rules v01
FCC ID		W38-28010077
IC ID	:	8854A-2801007
Dates of test	:	06/22/2015 to 06/26/2015
Issue Date	:	06/26/2015
Test Result	:	⊠ Pass ☐ Fail
Equipment complied with the specification [X] Equipment did not comply with the specification []		

This Test Report is Issued Under the Authority of:		
Ricky	N. malbei G.	
Ricky Wang	Nima Molaei	
Test Engineer	Engineer Reviewer	
This test report may be reproduced in full only		
Test result presented in this test report is applicable to the tested sample only		

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





Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	2 of 38

Laboratory Introduction

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



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

Accreditations for Conformity Assessment

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

Accreditations for Product Certifications

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

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Test report No.	FCC _RF_SL15060501-CPC-006_UNII	
Page	3 of 38	

CONTENTS

1		REP(DRT REVISION HISTORY	4
2		EXE	CUTIVE SUMMARY	5
3			FOMER INFORMATION	
4			SITE INFORMATION	
5			IFICATION	
ა 6			INFORMATION	
0				
	6.1		UT Description	
	6.2		adio Description	
	6.3	3 E	UT Photos	8
	6.4	4 E	UT Test Setup Photos	.13
7		SUPF	PORTING EQUIPMENT/SOFTWARE AND CABLING DESCRIPTION	.14
	7.1	1 S	upporting Equipment	.14
	7.2	2 C	abling Description	.14
	7.3	3 To	est Software Description	.14
8		TEST	SUMMARY	.15
9		MEA	SUREMENT UNCERTAINTY	.16
1	0	М	EASUREMENTS, EXAMINATION AND DERIVED RESULTS	.17
	10	.1	Conducted Emissions	.17
	10	.2	26 dB Bandwidth & 6 dB Bandwidth	.20
	10	.3	Peak Output Power	.25
	10	.4	Peak Spectral Density	.27
	10	.5	Radiated Emissions below 1GHz	.30
	10	.6	Radiated Spurious Emissions between above 1GHz	.32
A	NNI	EX A.	TEST INSTRUMENT	.36
۸	NINI	EY R	SIEMIC ACCDEDITATION	37



Test report No.	FCC _RF_SL15060501-CPC-006_UNII	
Page	4 of 38	

Report Revision History

Report No.	Report Version	Description	Issue Date
FCC _RF_SL15060501-CPC-006_UNII	None	Original	06/26/2015

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Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	5 of 38

2 **Executive Summary**

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

<u>Company:</u> ChargePoint, Inc. <u>Product:</u> Network Comunication

Model: 28010077

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

3 Customer information

Applicant Name	:	ChargePoint, Inc.
Applicant Address	:	254 E. Hacienda Ave Campbell, CA 95148
Manufacturer Name		ChargePoint, Inc.
Manufacturer Address	:	254 E. Hacienda Ave Campbell, CA 95148

4 Test site information

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

5 Modification

Index	Item	Description	Note
-	-	-	-

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Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	6 of 38

EUT Information

EUT Description 6.1

CO DOCUMENT		
Product Name	:	Network Comunication
Model No.	:	28010077
Trade Name	:	ChargePoint
Serial No.	:	N/A
Host Model No.	:	N/A
Input Power	:	100-240VDC, 50/60Hz
Power Adapter Manu/Model	:	Condor/HK-CH13-A05
Power Adapter SN	:	N/A
Product Hardware version	:	27-010077
Product Software version	:	4.0.0.41
Radio Hardware version	:	27-010077
Radio Software version	:	4.0.0.41
Test Software version	:	4.0.0.41
Date of EUT received	:	May 01, 2015
Equipment Class/ Category	:	UNII
Clock Frequencies	:	N/A
Port/Connectors	:	N/A

6.2 Radio Description

Naulo Description	
Radio Type	802.11a
Operating Frequency	5180-5240MHz 5745-5825MHz
Modulation	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Spacing	20MHz
Number of Channels	9
Antenna Type	Prestta WLAN Embedded Antenna
Antenna Gain (Peak)	3.5dBi (for 5GHz)
Antenna Connector Type	On Board
Note	•

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Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	7 of 38

EUT Power Settings

Band	Mode	Frequency	Power setting
5150-5250MHz	802.11a	5180	20
		5200	20
		5240	20
5725-5850MHz	802.11a	5745	20
		5785	20
		5825	20

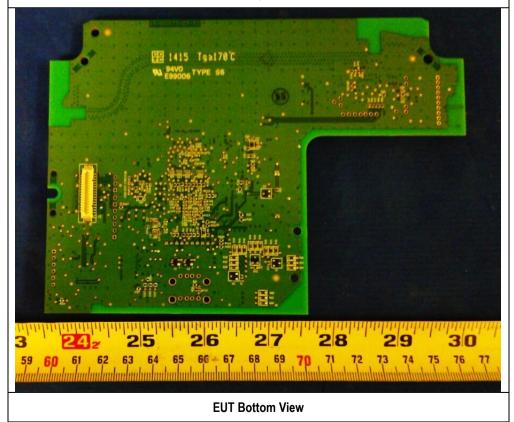


Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	8 of 38

EUT Photos 6.3



EUT Top View

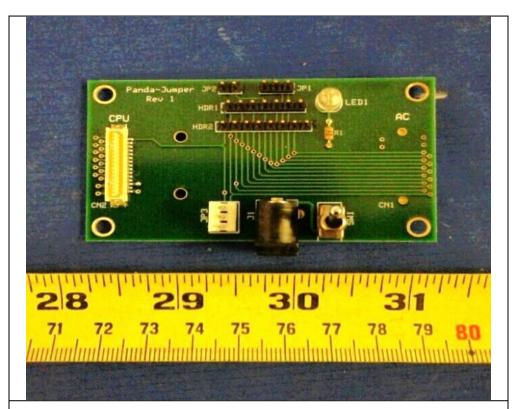


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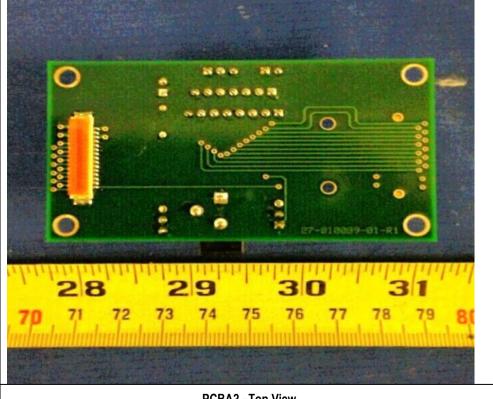




Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	9 of 38



PCBA2 -Top View



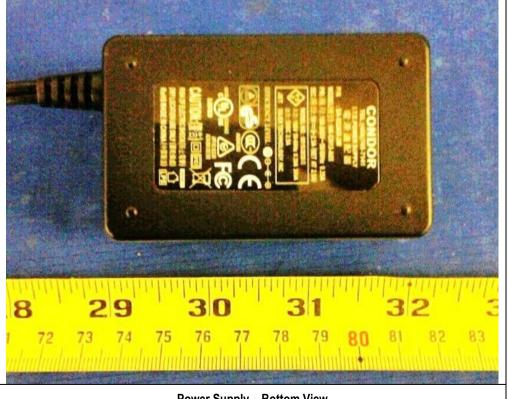
PCBA2 -Top View



FCC _RF_SL15060501-CPC-006_UNII Test report No. 10 of 38 Page



Power Supply - Top View



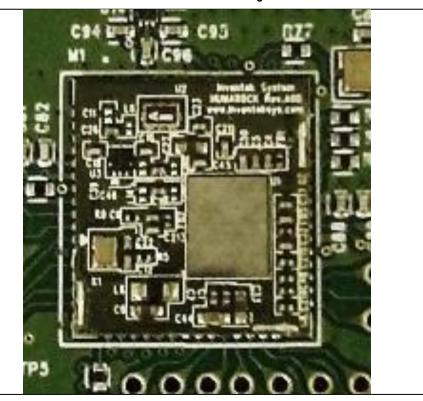
Power Supply - Bottom View



Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	11 of 38



EUT Radio with shielding



EUT Radio without shielding

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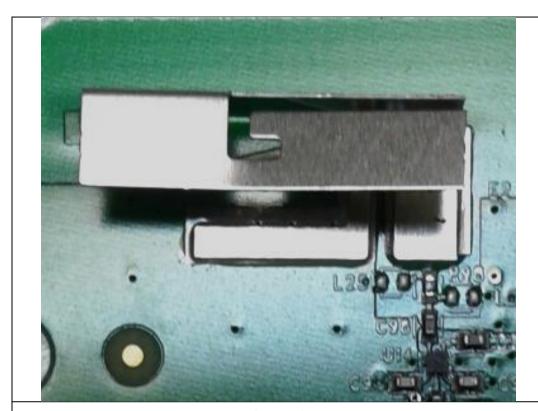








Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	12 of 38



Antenna 1



Antenna 2

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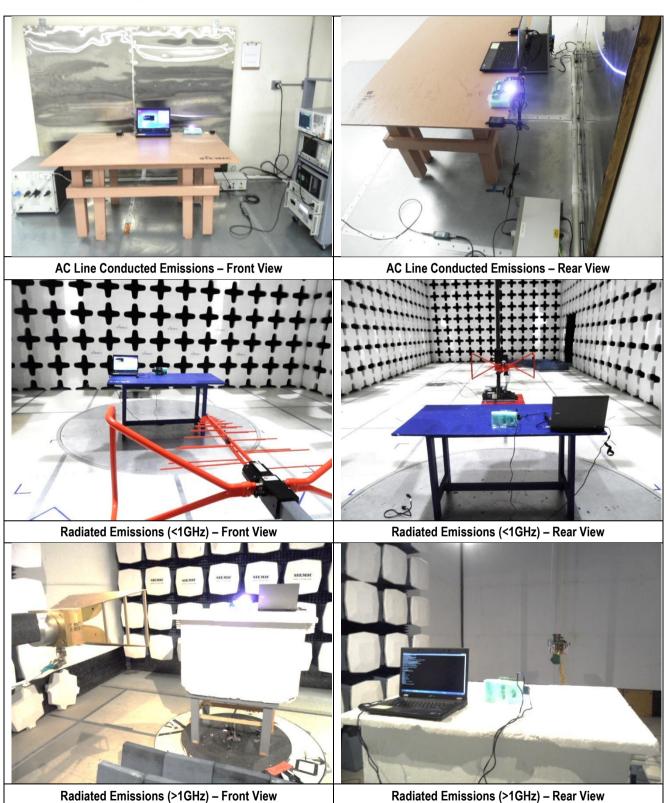






Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	13 of 38

6.4 EUT Test Setup Photos





Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	14 of 38

Supporting Equipment/Software and cabling Description

<u>7.1</u> **Supporting Equipment**

Item	Supporting Equipment Description	Model	Serial Number	Manufacturer	Note
1	Laptop	P05F Latitude E5510	N/A	Dell	-

7.2 Cabling Description

Name	Connecti	on Start	Connect	ion Stop	Length / shi	Note	
Name	From	I/O Port	То	I/O Port	Length (m)	Shielding	Note
USB	EUT	I/O Port	Laptop	USB	2	Unshielded	ı

7.3 Test Software Description

Test Item	Software	Description
RF Testing	Tera Term	Set the EUT to transmit continuously in diferent test mode

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Test report No.	FCC _RF_SL15060501-CPC-006_UNII		
Page	15 of 38		

8 **Test Summary**

Test Item	Te	est standard	Test Method/Procedure	Pass / Fail
Restricted Band of Operation	FCC	15.205	ANSI C63.10: 2013 789033 D02 General UNII Test Procedures New Rules v01	⊠ Pass □ N/A
AC Conducted Emissions Voltage	FCC	15.207(a)	ANSI C63.10: 2013	⊠ Pass □ N/A

Test Item		Te	est standard	Test Method/Procedure	Pass / Fail
26 & 6 dB Emission Bandwidth		FCC	15.407 (a) (2)	789033 D02 General UNII Test Procedures New Rules v01	⊠ Pass□ N/A
Maximum cond Pow	•	FCC	15.407 (a) (2)	789033 D02 General UNII Test Procedures New Rules v01	⊠ Pass □ N/A
Power red (Antenna Ga		FCC	15.407 (a) (2)	-	☐ Pass 図 N/A
Band Edge and Radiated Spurious Emissions		FCC	15.407(b)(2), 15.407(b)(6)	ANSI C63.10: 2013 789033 D02 General UNII Test Procedures New Rules v01	⊠ Pass □ N/A
Power Spect	Power Spectral Density		15.407 (a) (2)	789033 D02 General UNII Test Procedures New Rules v01	⊠ Pass □ N/A
Frequency	Stability	FCC	15.407 (g)	-	☐ Pass 図 N/A
Transmit Power Control (TPC)		FCC	15.407 (h)(1)	-	☐ Pass 図 N/A
User Manual		FCC	-	-	⊠ Pass □ N/A
 All measurement uncertainties are not taken into consideration for all presented test result. Remark The applicant shall ensure frequency stability by showing that an emission is maintained within the band operation under all normal operating conditions as specified in the user's manual. 		e band of			

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Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	16 of 38

Measurement Uncertainty

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

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Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	17 of 38

10 Measurements, Examination and Derived Results

10.1 Conducted Emissions

Conducted Emission Limit

Frequency ranges	Limit (dBuV)
Frequency ranges (MHz)	QP	Average
0.15 ~ 0.5	66 – 56	56 – 46
0.5 ~ 5	56	46
5 ~ 30	60	50

Spec	Item	Requirement	Applicable
47CFR§15.207	a)	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequency ranges.	
Test Setup		Vertical Ground Reference Plane Horizontal Ground Reference Plane Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.	
Procedure	- - -	The EUT and supporting equipment were set up in accordance with the requirements of top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Annex B. The power supply for the EUT was fed through a $50\Omega/50\mu H$ EUT LISN, connected to fill The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coal All other supporting equipment was powered separately from another main supply.	tered mains.
Remark	EUT wa	as tested at 120VAC, 60Hz	
Result	⊠ Pas	s 🗆 Fail	

Test Data \boxtimes Yes \square N/A
Test Plot \boxtimes Yes (See below) \square N/A

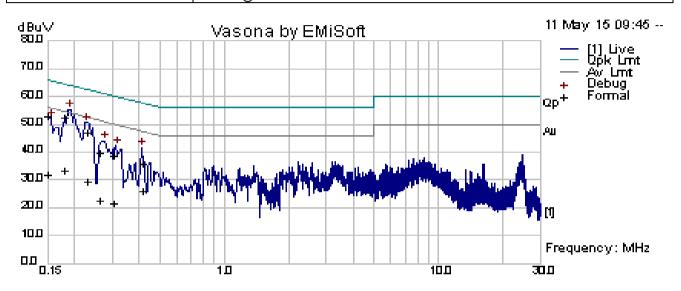




Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	18 of 38

Conducted Emission Test Results

Test specification:	Conducted Emissions				
	Temp(°C):	Temp(°C): 21			
Environmental Conditions:	Humidity (%):	Humidity (%): 42		⊠ Pass	
	Atmospheric(mbar):	Atmospheric(mbar): 1021		△ Pass	
Mains Power:	120Vac, 60Hz	120Vac, 60Hz			
Tested by:	Teody Manansala	Teody Manansala			
Test Date:	05/11/2015				
Remarks	AC Line @ Line				



Line Plot at 120Vac, 60Hz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	Factors (dB)	Level (dBuV)	Measurement Type	Line	Limit (dBuV)	Margin (dB)	Pass /Fail
0.18	41.55	10.00	0.75	52.30	Quasi Peak	Line	64.50	-12.21	Pass
0.23	36.17	10.00	0.73	46.91	Quasi Peak	Line	62.41	-15.51	Pass
0.15	42.41	10.00	0.76	53.17	Quasi Peak	Line	66.00	-12.83	Pass
0.42	25.21	10.01	0.73	35.95	Quasi Peak	Line	57.47	-21.52	Pass
0.26	28.79	10.00	0.72	39.52	Quasi Peak	Line	61.30	-21.78	Pass
0.30	28.03	10.00	0.71	38.74	Quasi Peak	Line	60.15	-21.41	Pass
0.18	22.49	10.00	0.75	33.24	Average	Line	54.50	-21.27	Pass
0.23	18.80	10.00	0.73	29.54	Average	Line	52.41	-22.88	Pass
0.15	21.20	10.00	0.76	31.96	Average	Line	56.00	-24.04	Pass
0.42	15.26	10.01	0.73	26.00	Average	Line	47.47	-21.47	Pass
0.26	11.76	10.00	0.72	22.49	Average	Line	51.30	-28.81	Pass
0.30	11.04	10.00	0.71	21.75	Average	Line	50.15	-28.40	Pass

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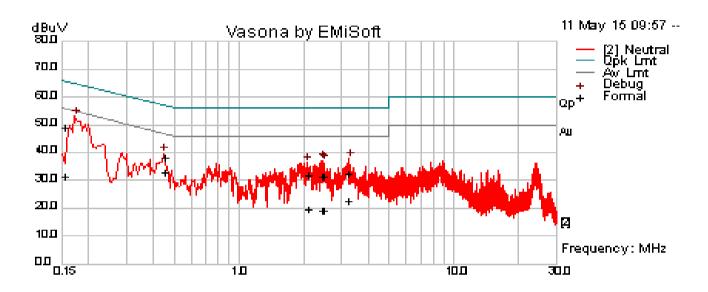




Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	19 of 38

Conducted Emission Test Results

Test specification:	Conducted Emissions				
	Temp(°C):	Temp(°C): 21			
Environmental Conditions:	Humidity (%):	Humidity (%): 42		⊠ Pass	
	Atmospheric(mbar):	Atmospheric(mbar): 1021		△ Pass	
Mains Power:	120Vac, 60Hz	120Vac, 60Hz			
Tested by:	Teody Manansala	Teody Manansala			
Test Date:	05/11/2015	05/11/2015			
Remarks	AC Line @ Neutral				



Neutral Plot at 120Vac, 60Hz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	Factors (dB)	Level (dBuV)	Measurement Type	Line	Limit (dBuV)	Margin (dB)	Pass /Fail
0.16	38.16	10.00	0.75	48.92	Quasi Peak	Neutral	65.69	-16.77	Pass
0.45	27.49	10.01	0.73	38.23	Quasi Peak	Neutral	56.86	-18.64	Pass
3.25	21.23	10.03	1.00	32.26	Quasi Peak	Neutral	56.00	-23.74	Pass
2.45	20.56	10.03	0.96	31.55	Quasi Peak	Neutral	56.00	-24.46	Pass
2.48	20.36	10.03	0.96	31.35	Quasi Peak	Neutral	56.00	-24.66	Pass
2.08	21.13	10.02	0.95	32.11	Quasi Peak	Neutral	56.00	-23.89	Pass
0.16	20.60	10.00	0.75	31.36	Average	Neutral	55.69	-24.33	Pass
0.45	21.91	10.01	0.73	32.65	Average	Neutral	46.86	-14.22	Pass
3.25	11.62	10.03	1.00	22.65	Average	Neutral	46.00	-23.35	Pass
2.45	8.09	10.03	0.96	19.08	Average	Neutral	46.00	-26.92	Pass
2.48	8.09	10.03	0.96	19.08	Average	Neutral	46.00	-26.92	Pass
2.08	8.63	10.02	0.95	19.60	Average	Neutral	46.00	-26.40	Pass

Note: The results above show only the worst case.



Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	20 of 38

10.2 26 dB Bandwidth & 6 dB Bandwidth

Requirement(s):

Spec	Item Requirement			Applicable		
·	- 26 dB Emission BW: Report only for	r reference.		\boxtimes		
§ 15.407	a) (2) 26 dB Emission BW: Report only for	r power limit calcula	tion.			
9 13.407	e) Within the 5.725-5.85 GHz band, the shall be at least 500 kHz.	e minimum 6 dB ba	ndwidth of U-NII devices	\boxtimes		
Test Setup	Spectrum Analyzer EUT					
Test Procedure	789033 D02 General UNII Test Procedures No. 26dB Emission bandwidth measurement procedure - Allow the trace to stabilize. - Use the spectrum analyzer built-in measurement procedure - Set RBW = around 1% of emisory - Set VBW > RBW - Detector = Peak - Trace mode = max hold - Capture the plot. - Repeat above steps for different test characteristics. - Allow the trace to stabilize. - Use the spectrum analyzer built-in measurement procedure. - Set RBW = 100 KHz - Set VBW ≥ 3 x RBW - Detector = Peak - Trace mode = max hold - Sweep = auto couple - Capture the plot. - Repeat above steps for different test characteristics.	(Other than 5.725-5.8 rement function to determine the sistent bandwidth recedure (for 5.725-5.8 rement function to determine the sistent function function the sistent function func	on type. 35 GHz) ermine the 6dB BW.			
Test Date	06/23/2015	Environmental condition	Temperature Relative Humidity Atmospheric Pressure	22°C 38% 1020mbar		
Remark	None					
Result	⊠ Pass ☐ Fail					

Equipment Setting

Test	RBW	VBW	Span	Detector	Sweep	Trace	Notes
26 dB Emission Bandwidth	1% of 26 dB EBW	>RBW	>EBW	PK	Auto	Maxhold	1
6 dB Bandwidth	100 KHz	≥3 x RBW	1.5 - 5 times of OBW	PK	Auto	Maxhold	-

l est Data	⊠ Yes	⊔ N/A
Test Plot		□ N/A

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Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	21 of 38

26dB Bandwidth measurement result for 5.2GHz

Test mode	Freq (MHz)	СН	Result (MHz)	Limit (MHz)
	5180	Low	19.11	-
802.11a	5200	Mid	19.07	-
	5240	High	18.96	-

99% Bandwidth measurement result for 5.2GHz

Test mode	Freq (MHz)	СН	Result (MHz)	Limit (MHz)
	5180	Low	17.53	-
802.11a	5200	Mid	17.52	-
	5240	High	17.52	-

6dB Bandwidth measurement result for 5.8GHz

Test mode	Freq (MHz)	СН	Result (MHz)	Limit (MHz)	Result
802.11a	5745	Low	17.52	≥0.5	Pass
	5785	Mid	17.52	≥0.5	Pass
	5825	High	17.50	≥0.5	Pass

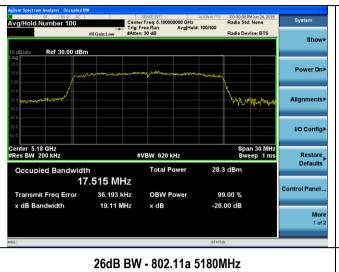
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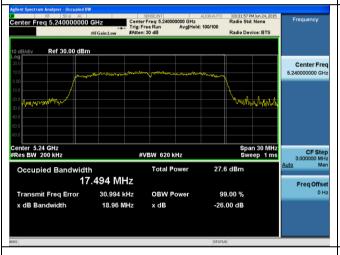
Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	22 of 38

26dB Bandwidth Test Plots





26dB BW - 802.11a 5200MHz



26dB BW - 802.11a 5240MHz

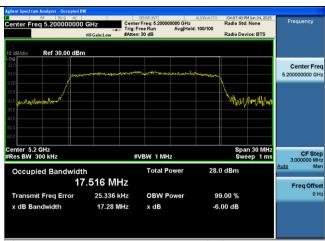




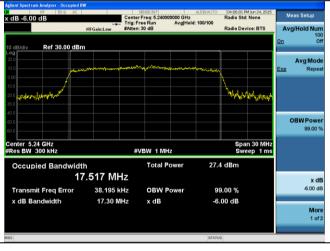
Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	23 of 38

99% Bandwidth Test Plots





99% BW - 802.11a 5200MHz



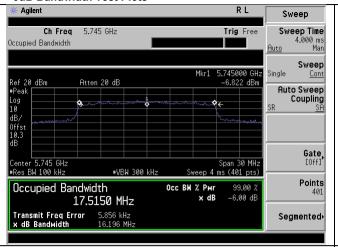
99% BW - 802.11a 5240MHz

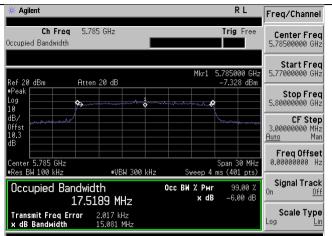




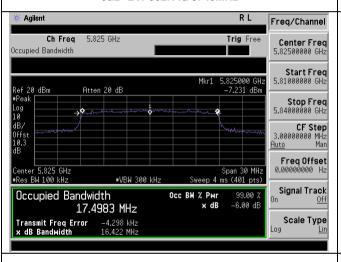
Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	24 of 38

6dB Bandwidth Test Plots





6dB BW 802.11a 5745MHz



6dB BW 802.11a 5785MHz

6dB BW 802.11a 5825MHz





Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	25 of 38

10.3 Peak Output Power

Requirement(s):

	1	Requirement			Applicable		
	a)(1)(i)	conducted output power over W provided the maximum a	er the frequency band of ontenna gain does not exc or elevation angle above 3	15-5.25 GHz, the maximum operation shall not exceed 1 seed 6 dBi. 0 degrees as measured from			
	a)(1)(ii)	For an indoor access point conducted output power over	For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.				
§ 15.407	a)(1)(iii)	For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.					
	a)(1)(iv)		nt devices in the 5.15-5.2 er the frequency band of	25 GHz band, the maximum operation shall not exceed			
	a)(2)	For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.					
	a)(3)						
Test Setup		Average Power Meter	EUT				
Test Procedure	Measurer Measurer adjusted	such that the power is measur	y a wideband gated RF po ed only when the EUT is t uring the ON time of the tr wer to power meter ensmission mode tput power using power m	modulation type.	er control level. ion factor is		
Test Date	06/23/20	15	Environmental condition	Temperature Relative Humidity Atmospheric Pressure	21°C 40% 1019mbar		
Remark	-						
Result	⊠ Pass	☐ Fail					
Mesuit							





Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	26 of 38

Output Power measurement result for 5.2GHz

Test mode	Freq (MHz)	СН	Conducted Power (dBm)	Limit (dBm)	Result
	5180	Low	11.45	30	Pass
802.11a	5200	Mid	12.27	30	Pass
	5240	High	12.33	30	Pass

Output Power Measurement Results for 5.8GHz

Test mode	Freq(MHz)	СН	Conducted Power (dBm)	Limit (dBm)	Result
	5745	Low	11.73	30	Pass
802.11a	5785	Mid	11.89	30	Pass
	5825	High	11.55	30	Pass

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Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	27 of 38

10.4 Peak Spectral Density

Requirement(s):

Spec	Item	Requirement			Applicable					
§ 15.407	a)(1)(i)	For an outdoor access point opera			\boxtimes					
		power spectral density shall not ex								
	a)(1)(ii)	For an indoor access point operati								
) (0)	power spectral density shall not ex								
	a)(2)	For the 5.25-5.35 GHz and 5.47-5								
	-)(2)	density shall not exceed 11 dBm in								
	a)(3)	For the band 5.725-5.85 GHz, the		ectral density snall not						
	<u> </u>	exceed 30 dBm in any 500-kHz ba	ariu.							
Test Setup		Spectrum Analyzer . EUT								
	789033 I	D02 General UNII Test Procedures	New Rules v01, II.F.	Method SA-1						
Test Procedure	Maximur	n spectral density measurement pro Set span to encompass the entire of bandwidth) of the signal. Set RBW = 1 MHz Set VBW ≥ 3 MHz Detector = RMS. Sweep time = auto couple. Trace mode = max hold. Trace average at least 100 traces in Use the peak marker function to de Apply correction to the result if diffe	mission bandwidth (E n power averaging termine the maximum	n amplitude level within the RE	BW.					
Test Date	06/23/20	15	Environmental condition	Temperature Relative Humidity Atmospheric Pressure	22°C 42% 1020mbar					
Remark	-									
Result	⊠ Pass	□ Fail								

Equipment Setting

Test	RBW	VBW	Span	Detector	Sweep	Trace	Notes
PSD	1MHz	≥3MHz	>EBW	RMS	Auto	Average	ı

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

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Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	28 of 38

PSD measurement result for 5.2GHz

Test mode	Freq (MHz)	СН	Conducted PSD (dBm/MHz)	Limit (dBm/MHz)	Result
	5180	Low	1.922	17	Pass
802.11a	5200	Mid	2.712	17	Pass
	5240	High	2.614	17	Pass

PSD measurement result for 5.8GHz

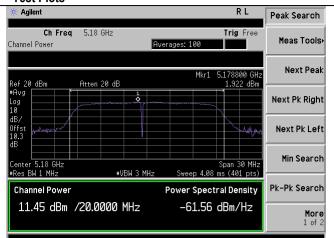
Test Mode	Freq (MHz)	СН	Conducted PSD (dBm/100KHz)	Correction Factor (dB)	Combined PSD (dBm/500KHz)	Limit (dBm/500KHz)	Resul t		
	5745	Low	-6.372	6.99	0.618	30	Pass		
802.11a	5785	Mid	-6.422	6.99	0.568	30	Pass		
	5825	High	-7.223	6.99	-0.233	30	Pass		
	BW correction factor = 10log(500kHz/RBW)								

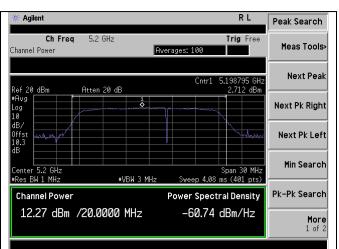




Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	29 of 38

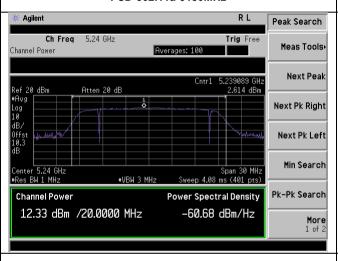
Test Plots

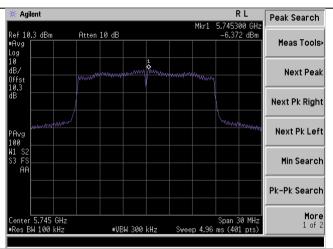




PSD-802.11a-5180MHz

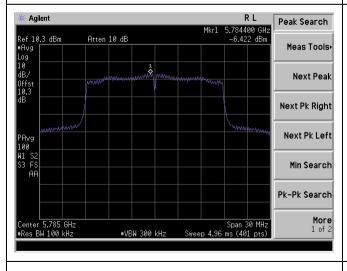
PSD-802.11a-5200MHz

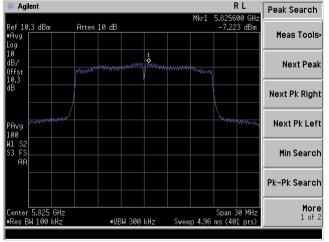




PSD-802.11a-5240MHz

PSD-802.11a-5745MHz





PSD-802.11a-5785MHz

PSD-802.11a-5825MHz



Test Plot ⊠ Yes (See below)

Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	30 of 38

10.5 Radiated Emissions below 1GHz

Requirement(s):

Spec	Requirement	Applicable
47CFR§ 15.407(b) 15.209 (a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges Frequency range (MHz) Field Strength (uV/m) 30 - 88 100 88 - 216 150 216 960 200	⊠
	Above 960 500	
Test Setup	Ant. Tower Support Units Ground Plane Test Receiver	
Procedure	 The EUT was switched on and allowed to warm up to its normal operating condition. The test was carried out at the selected frequency points obtained from the EUT che Maximization of the emissions, was carried out by rotating the EUT, changing the and adjusting the antenna height in the following manner: Vertical or horizontal polarisation (whichever gave the higher emission lever rotation of the EUT) was chosen. The EUT was then rotated to the direction that gave the maximum emission. Finally, the antenna height was adjusted to the height that gave the maximum and the formal polarisation. A Quasi-peak measurement was then made for that frequency point. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency measured. 	aracterisation. ntenna polarizatio vel over a full ion. mum emission.
Remark	Both horizontal and vertical polarities were investigated. The results show only the worst ca	ise.
	⊠ Pass □ Fail	

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 \square N/A

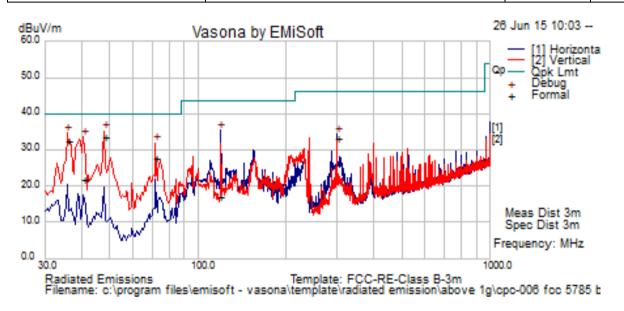




Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	31 of 38

Radiated Emission Test Results (Below 1GHz)

Test specification	below 1GHz			
	Temp (°C): 26.1			
Environmental Conditions:	Humidity (%)	47.5	1	
	Atmospheric (mbar): 1020			
Mains Power:	120VAC, 60Hz	Result	Pass	
Tested by:	Teody Manansala			
Test Date:	06/26/2015			
Remarks:	802.11a-5785MHz			



Frequenc y MHz	Raw dBuV	Cabl e Loss	AF dB	Level dBuV/ m	Measureme nt Type	Po I	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
48.01	60.93	1.12	-28.47	33.58	Quasi Max	V	101.00	252.00	40.00	-6.42	Pass
35.99	53.91	1.04	-22.50	32.45	Quasi Max	٧	100.00	26.00	40.00	-7.55	Pass
40.81	46.29	1.07	-25.48	21.88	Quasi Max	٧	124.00	45.00	40.00	-18.12	Pass
119.62	39.80	1.98	-24.82	16.96	Quasi Max	Н	178.00	285.00	43.52	-26.56	Pass
71.96	56.28	1.48	-30.04	27.72	Quasi Max	٧	100.00	187.00	40.00	-12.28	Pass
300.00	55.31	2.96	-25.17	33.10	Quasi Max	Н	120.00	108.00	46.02	-12.92	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

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Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	32 of 38

10.6 Radiated Spurious Emissions between above 1GHz

Requirement(s):

Spec	Item Requirement		Applicable			
	(1) For transmitters operating in the 5.15-5.25 G 5.15-5.35 GHz band shall not exceed an EIF		\boxtimes			
47CFR§	(2) For transmitters operating in the 5.25-5.35 G 5.15-5.35 GHz band shall not exceed an EIF in the 5.25-5.35 GHz band that generate emmeet all applicable technical requirements for (including indoor use) or alternatively meet a 27 dBm/MHz in the 5.15-5.25 GHz band.	RP of -27 dBm/MHz. Devices operating issions in the 5.15-5.25 GHz band must or operation in the 5.15-5.25 GHz band				
15.407(b)(2), 15.407(b)(6)	(3) For transmitters operating in the 5.47-5.725 5.47-5.725 GHz band shall not exceed an E					
,,,,	(4) For transmitters operating in the 5.725-5.829 frequency range from the band edge to 10 M not exceed an EIRP of -17 dBm/MHz; for fre below the band edge, emissions shall not ex	5 GHz band: all emissions within the IHz above or below the band edge shall quencies 10 MHz or greater above or	\boxtimes			
	(5) Restricted band, emission must also comply specified in 15.209	with the radiated emission limits	\boxtimes			
Test Setup	3m for <1GHz 3m for >1GHz Variable FUT& Support Units Turn Table Test Receiver					
Procedure	 The EUT was switched on and allowed to warm up to its normal operating condition. The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. The EUT was then rotated to the direction that gave the maximum emission. Finally, the antenna height was adjusted to the height that gave the maximum emission. An average measurement was then made for that frequency point. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured. 					
Remark	The EUT was scanned up to 40GHz. Both horizontal aronly the worst case.	d vertical polarities were investigated. The r	results show			
Result	⊠ Pass ☐ Fail					

Equipment Setting

Test	RBW	VBW	Span	Detector	Sweep	Trace	Notes
Radiated Spurious Emission	1MHz	3MHz	1GHz - 40 GHz	Peak	Auto	Max hold	PK Measurement
Radiated Spurious Emission	1MHz	10Hz	1GHz - 40 GHz	Peak	Auto	Max hold	Ave Measurement

Test Data ⊠Yes (See below) \square N/A **Test Plot** \square N/A

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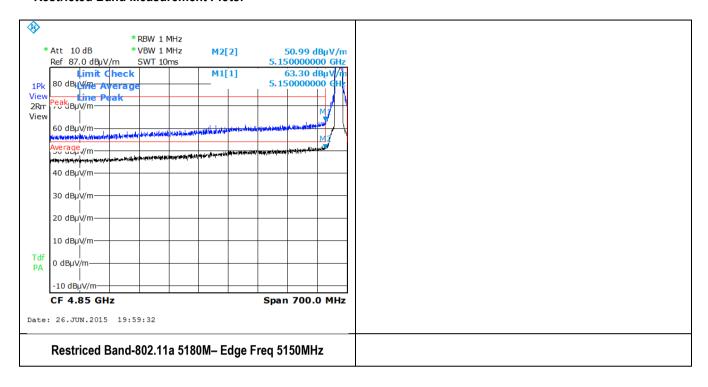
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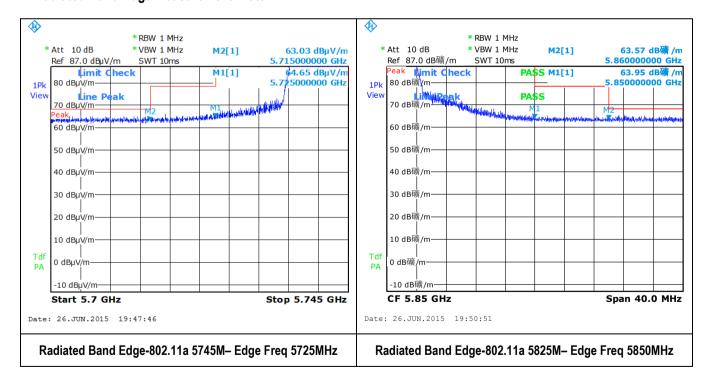


Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	33 of 38

Restricted Band Measurement Plots:



Radiated Band Edge Measurement Plots:



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Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	34 of 38

Radiated Emission Test Results (Above 1GHz) 802.11a - 5180MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
2064.34	43.29	3.58	11.27	58.15	Peak Max	V	180.00	168.00	74.00	-15.85	Pass
1001.05	45.69	2.44	9.68	57.81	Peak Max	Н	209.00	17.00	74.00	-16.19	Pass
4010.75	40.59	5.84	12.18	58.61	Peak Max	V	155.00	120.00	74.00	-15.39	Pass
6247.93	45.74	7.63	10.47	63.85	Peak Max	٧	271.00	274.00	74.00	-10.15	Pass
2064.34	30.18	3.58	11.27	45.04	Average Max	٧	180.00	168.00	54.00	-8.96	Pass
1001.05	32.24	2.44	9.68	44.36	Average Max	Н	209.00	17.00	54.00	-9.64	Pass
4010.75	26.95	5.84	12.18	44.97	Average Max	٧	155.00	120.00	54.00	-9.03	Pass
6247.93	31.73	7.63	10.47	49.84	Average Max	٧	271.00	274.00	54.00	-4.16	Pass

802.11a - 5200MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1972.68	42.92	3.30	11.26	57.48	Peak Max	٧	171.00	198.00	74.00	-16.52	Pass
6158.87	45.15	7.37	10.68	63.20	Peak Max	Н	262.00	25.00	74.00	-10.80	Pass
4119.84	40.25	5.93	11.70	57.88	Peak Max	V	290.00	48.00	74.00	-16.12	Pass
1972.68	29.71	3.30	11.26	44.27	Average Max	٧	171.00	198.00	54.00	-9.73	Pass
6158.87	31.64	7.37	10.68	49.69	Average Max	Η	262.00	25.00	54.00	-4.31	Pass
4119.84	26.91	5.93	11.70	44.55	Average Max	V	290.00	48.00	54.00	-9.45	Pass

802.11a - 5240MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1883.35	42.50	3.20	10.54	56.24	Peak Max	Н	276.00	340.00	74.00	-17.76	Pass
4067.27	40.26	5.89	11.93	58.08	Peak Max	Н	293.00	172.00	74.00	-15.92	Pass
2081.86	43.55	3.65	11.22	58.42	Peak Max	Η	164.00	30.00	74.00	-15.58	Pass
6229.36	45.73	7.58	10.52	63.82	Peak Max	Η	164.00	101.00	74.00	-10.18	Pass
1883.35	27.89	3.20	10.54	41.63	Average Max	Η	276.00	340.00	54.00	-12.37	Pass
4067.27	26.67	5.89	11.93	44.48	Average Max	Ι	293.00	172.00	54.00	-9.52	Pass
2081.86	30.18	3.65	11.22	45.04	Average Max	Ξ	164.00	30.00	54.00	-8.96	Pass
6229.36	31.75	7.58	10.52	49.84	Average Max	Η	164.00	101.00	54.00	-4.16	Pass

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Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	35 of 38

802.11a - 5745MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1002.00	45.29	2.44	9.67	57.41	Peak Max	Н	226.00	283.00	74.00	-16.59	Pass
1991.53	43.54	3.32	11.41	58.27	Peak Max	Н	184.00	74.00	74.00	-15.73	Pass
6212.00	44.91	7.53	10.56	62.99	Peak Max	٧	145.00	125.00	74.00	-11.01	Pass
4084.65	40.26	5.90	11.85	58.02	Peak Max	Н	166.00	342.00	74.00	-15.98	Pass
1002.00	32.20	2.44	9.67	44.32	Average Max	Н	226.00	283.00	54.00	-9.68	Pass
1991.53	29.58	3.32	11.41	44.31	Average Max	Н	184.00	74.00	54.00	-9.69	Pass
6212.00	31.53	7.53	10.56	49.62	Average Max	٧	145.00	125.00	54.00	-4.38	Pass
4084.65	26.82	5.90	11.85	44.57	Average Max	Н	166.00	342.00	54.00	-9.43	Pass

802.11a - 5785MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1056.04	45.16	2.47	9.59	57.22	Peak Max	V	182.00	124.00	74.00	-16.78	Pass
1990.73	43.27	3.32	11.41	58.00	Peak Max	V	99.00	6.00	74.00	-16.00	Pass
6340.13	44.81	7.91	10.26	62.97	Peak Max	V	222.00	261.00	74.00	-11.03	Pass
4048.33	40.39	5.87	12.01	58.27	Peak Max	Н	133.00	286.00	74.00	-15.73	Pass
1056.04	31.56	2.47	9.59	43.62	Average Max	V	182.00	124.00	54.00	-10.38	Pass
1990.73	29.67	3.32	11.41	44.40	Average Max	V	99.00	6.00	54.00	-9.60	Pass
6340.13	31.77	7.91	10.26	49.93	Average Max	V	222.00	261.00	54.00	-4.07	Pass
4048.33	26.65	5.87	12.01	44.54	Average Max	Н	133.00	286.00	54.00	-9.46	Pass

802.11a - 5825MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
2065.64	44.10	3.59	11.27	58.95	Peak Max	Н	248.00	122.00	74.00	-15.05	Pass
1019.15	45.82	2.45	9.65	57.92	Peak Max	V	175.00	79.00	74.00	-16.08	Pass
4193.05	41.00	5.99	11.39	58.38	Peak Max	Н	128.00	292.00	74.00	-15.62	Pass
6358.19	44.81	7.96	10.22	62.98	Peak Max	V	185.00	280.00	74.00	-11.02	Pass
9656.18	41.03	12.16	7.43	60.63	Peak Max	Н	155.00	360.00	74.00	-13.37	Pass
2065.64	30.52	3.59	11.27	45.37	Average Max	Н	248.00	122.00	54.00	-8.63	Pass
1019.15	32.49	2.45	9.65	44.59	Average Max	V	175.00	79.00	54.00	-9.41	Pass
4193.05	27.12	5.99	11.39	44.50	Average Max	Н	128.00	292.00	54.00	-9.50	Pass
6358.19	31.53	7.96	10.22	49.71	Average Max	V	185.00	280.00	54.00	-4.29	Pass
9656.18	27.73	12.16	7.43	47.32	Average Max	Н	155.00	360.00	54.00	-6.68	Pass

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Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	36 of 38

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Cycle	Cal Due	In use
Conducted Emissions		1			
Spectrum Analyzer	N9010A	MY50210206	1 Year	08/13/2015	\boxtimes
Signal Analyzer	FSIQ7	825555/013	1 Year	05/31/2016	\boxtimes
V-LISN (150 kHz – 30 MHz)	NNLK 8129	8129-190	1 Year	08/11/2015	\boxtimes
LISN (9 kHz – 30 MHz)	MN2050B	1018	1 Year	07/31/2015	\boxtimes
TLISN	ISN T800	30814	1 Year	08/08/2015	\boxtimes
Hygro Hermograph	ST-50	HE01-000092	1 Year	05/25/2016	\boxtimes
Radiated Emissions		1	,		II.
EMI Test Receiver	ESIB 40	100179	1 Year	05/24/2016	\boxtimes
Antenna - Biconlog (30 MHz – 2 GHz)	JB1	A030702	1 Year	08/12/2015	\boxtimes
DoubleRidged Waveguide Horn Antenna (1-18 GHz)	3115	10SL0059	1 Year	08/11/2015	\boxtimes
Horn Antenna (18-40 GHz)	AH-840	101013	1 Year	08/11/2015	\boxtimes
RF Pre-Amplifier	LPA-6-30	11140711	1 Year	02/19/2016	\boxtimes
Microwave Preamplifier (18-40 GHz)	PA-840	181251	1 Year	02/19/2016	\boxtimes
3 Meters SAC	3M	N/A	1 Year	08/29/2015	\boxtimes
10 Meters SAC	10M	N/A	1 Year	09/05/2015	\boxtimes
Hygro Hermograph	ST-50	HE01-000092	1 Year	05/25/2016	\boxtimes
RF Conducted Measurement		T.	1	T.	ı
Spectrum Analyzer	N9010A	MY50210206	1 Year	8/13/2015	\boxtimes

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Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	37 of 38

Annex B. SIEMIC Accreditation

Accreditations	Document	Scope / Remark
ISO 17025 (A2LA)		Please see the documents for the detailed scope
ISO Guide 65 (A2LA)		Please see the documents for the detailed scope
TCB Designation		A1, A2, A3, A4, B1, B2, B3, B4, C
FCC DoC Accreditation		FCC Declaration of Conformity Accreditation
FCC Site Registration		3 meter site
FCC Site Registration		10 meter site
IC Site Registration		3 meter site
IC Site Registration		10 meter site
EU NB		Radio & Telecommunications Terminal Equipment: EN45001 – EN ISO/IEC 17025
	=	Electromagnetic Compatibility: EN45001 – EN ISO/IEC 17025
Singapore iDA CB(Certification Body)	D D	Phase I, Phase II
Vietnam MIC CAB Accreditation		Please see the document for the detailed scope
Hong Kong OFCA	7	(Phase II) OFCA Foreign Certification Body for Radio and Telecom
	7	(Phase I) Conformity Assessment Body for Radio and Telecom
Industry Canada CAB	7	Radio: Scope A – All Radio Standard Specification in Category I
	7	Telecom: CS-03 Part I, II, V, VI, VII, VIII





Test report No.	FCC _RF_SL15060501-CPC-006_UNII
Page	38 of 38

Japan Recognized Certification Body Designation	因因	Radio: A1. Terminal equipment for purpose of calling Telecom: B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law
Korea CAB Accreditation	72	EMI: KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI KN22: Test Method for EMI EMS: KCC Notice 2008-38, RRL Notice 2008-4: CA Procedures for EMS KN24, KN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS Radio: RRL Notice 2008-26, RRL Notice 2008-2, RRL Notice 2008-10, RRL Notice 2007-49, RRL Notice 2007-20, RRL Notice 2007-21, RRL Notice 2007-80, RRL Notice 2004-68
		Telecom: President Notice 20664, RRL Notice 2007-30, RRL Notice 2008-7 with attachments 1, 3, 5, 6; President Notice 20664, RRL Notice 2008-7 with attachment 4
Taiwan NCC CAB Recognition	7	LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08
Taiwan BSMI CAB Recognition	Z	CNS 13438
Japan VCCI	B	R-3083: Radiation 3 meter site C-3421: Main Ports Conducted Interference Measurement T-1597: Telecommunication Ports Conducted Interference Measurement
Australia CAB Recognition		EMC: AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4
		Radio communications: AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS 4769.2, AS/NZS 4770, AS/NZS 4771
		Telecommunications: AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06 AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S038:01, AS/ACIF S040:01, AS/ACIF S041:05, AS/ACIF S043.2:06, AS/ACIF S60950.1
Australia NATA Recognition		AS/ACIF S002, AS/ACIF S003, AS/ACIF S004, AS/ACIF S006, AS/ACIF S016, AS/ACIF S031, AS/ACIF S038, AS/ACIF S040, AS/ACIF S041, AS/ACIF S043.2

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