RF TEST REPORT



Report No.: FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0 Supersede Report No.: FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)

Applicant	:	Pass & Seymour, Inc. d/b/a Legrand		
Product Name	:	802.11 b/g/n Wi-Fi Module & Z-Wave Transceiver Device (host)		
Model No.	:	CU-282 & HA7040(host)		
Test Standard		47 CRF 15.247: 2013		
Test Standard	•	RSS-210 Issue 8: 2010		
		ANSI C63.10: 2013		
Test Method	:	RSS GEN Issue 4: 2014		
		558074 D01 DTS Meas Guidance v03r02		
FCC ID		WIFI Module: YV8-CU282		
	ZWAVE Module: YV8-HA7040			
IC ID		WIFI Module: 9922A-CU282		
		ZWAVE Module: 9922A-HA7040		
Dates of test	:	June 16, 2015		
Issue Date	:	July 22, 2015		
Test Result	:			
Equipment complied with the specification [X]				
Equipment did not comply with the specification []				

This Test Report is Issued Under the Authority of:	
Dananach	Clan Ge
Teody Manansala	Chen Ge
Test Engineer	Engineer Reviewer

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



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Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	2 of 21

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	EMC, RF/Wireless, Telecom, Safety
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_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	3 of 21

CONTENTS

1	RE	EPORT REVISION HISTORY	4
2		(ECUTIVE SUMMARY	
3		JSTOMER INFORMATION	
4		ST SITE INFORMATION	
5		ODIFICATION	
6		IT INFORMATION	
	6.1	EUT Description	6
	6.2	Radio Description	
	6.3	EUT test modes/configuration Description	6
	6.4	EUT Photos – External	7
	6.5	EUT Photos – Internal	8
	6.6	EUT Test Setup Photos	10
7	SU	IPPORTING EQUIPMENT/SOFTWARE AND CABLING DESCRIPTION	.11
	7.1	Supporting Equipment	.11
	7.2	Cabling Description	.11
	7.3	Test Software Description	.11
8	TE	ST SUMMARY	.12
9	ME	EASUREMENT UNCERTAINTY	13
10		MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	.14
	10.1	Radiated Emissions below 1GHz	.14
	10.2	Radiated Spurious Emissions above 1GHz	16
A١	INEX	A. TEST INSTRUMENT	.18
ΑN	INEX	B. SIEMIC ACCREDITATION	.19





Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0	
Page	4 of 21	

Report Revision History

Report No.	Report Version	Description	Issue Date
FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)	None	Original	06/26/2015
FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0	1.0	Update product name	07/22/2015





Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	5 of 21

2 **Executive Summary**

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

Company: Pass & Seymour, Inc. d/b/a Legrand

Product: 802.11 b/g/n Wi-Fi Module & Z-Wave Transceiver Device (host)

Model: CU-282 & HA7040(host)

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	:	Pass & Seymour, Inc. d/b/a Legrand
Applicant Address	:	301 Fulling Mill Rd, Suite G, Middletown, PA 17057 USA
Manufacturer Name	:	Pass & Seymour, Inc. d/b/a Legrand
Manufacturer Address	:	301 Fulling Mill Rd, Suite G, Middletown, PA 17057 USA

4 Test site information

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

5 Modification

Index	Item	Description	Note
-	-	-	-

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Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	6 of 21

6 EUT Information

6.1 **EUT Description**

Product Name	:	802.11 b/g/n Wi-Fi Module & Z-Wave Transceiver Device (host)
Model No.	:	CU-282 & HA7040(host)
Trade Name	:	Pass & Seymour, Inc. d/b/a Legrand
Serial No.	:	N/A
Input Power	•	3.3VDC
Power Adapter Manu/Model	:	EPSA050250U-P5P-EJ
Power Adapter SN	:	N/A
Hardware version	:	N/A
Software version	:	N/A
Date of EUT received	:	06/15/2015
Equipment Class/ Category	:	Class B, DTS
Clock Frequencies	:	N/A
Port/Connectors	:	Ethernet

6.2 Radio Description

Spec for Z-Wave

Spec for Z-wave	
Radio Type	Description
Operating Frequency	908.40MHz/916.00MHz
Modulation	2FSK/2GFSK
Number of Channels	2
Antenna Type	Embedded antenna
Antenna Gain	3.48 dBi
Antenna Connector Type	On Board

Specs for WLAN

Radio Type	802.11b 802.11g		802.11n-20M	802.11n-40M	
Operating Frequency	2412-2462MHz	MHz 2412-2462MHz 2412-2462MH		2422-2452MHz	
	DSSS	OFDM-CCK (BPSK,	OFDM (BPSK, QPSK,	OFDM (BPSK,	
Modulation	(CCK, DQPSK,	QPSK,	16QAM, 64QAM)	QPSK, 16QAM,	
	DBPSK)	16QAM,64QAM)	TOWAINI, 04WAINI)	64QAM)	
Channel Spacing	5MHz	5MHz	5MHz	5MHz	
Number of Channels	11	11 11		7	
Antenna Type	Chip				
Antenna Gain (Peak)	0.53dBi (for 2.4GHz)				
Antenna Connector Type	On Board, U.FL				

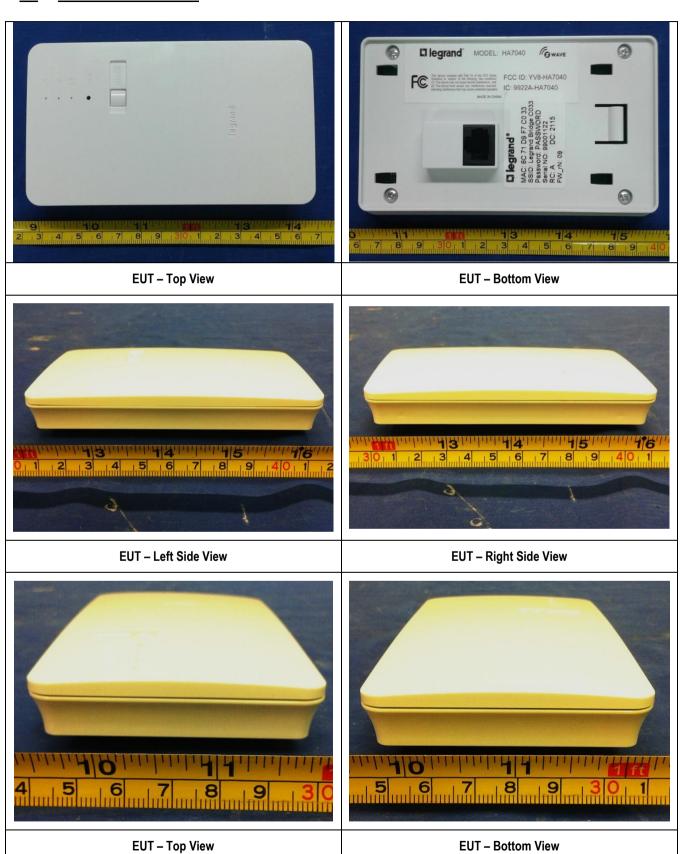
6.3 EUT test modes/configuration Description

	Final Test Mode	Note
Final_test_mode _1	EUT set to continuous transmit Z-wave and Wifi simultaneously	Radiated spurious emissions below 1GHz
Final_test_mode _2	EUT set to continuous transmit Z-wave and Wifi simultaneously	Radiated spurious emissions above 1GHz
Remarks:		



Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	7 of 21

6.4 EUT Photos – External





Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	8 of 21

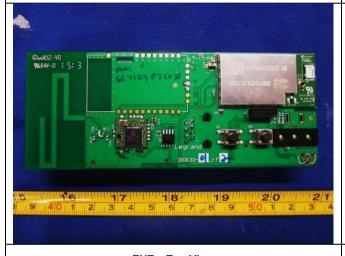
6.5 EUT Photos – Internal





EUT-with cov

EUT-without cover



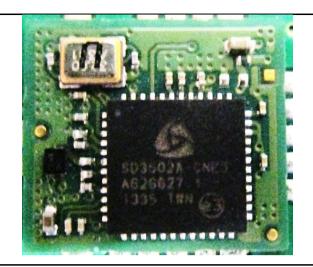
EUT – Top View



EUT – Bottom View



Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	9 of 21

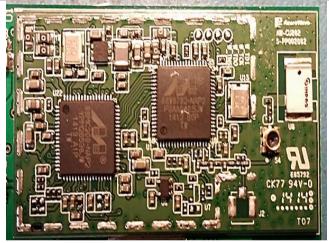


280100950 2013010700 EET-4 94V-0 FU E246995

Z-Wave Module Top View

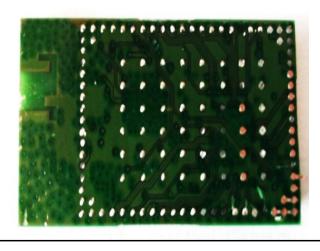
ZWave Module Bottom View





WLAN Module With Shielding

WLAN Module Without Shielding

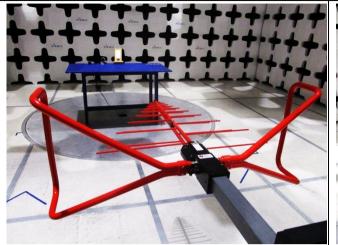


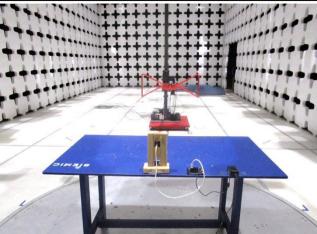
WLAN Bottom View



Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	10 of 21

6.6 EUT Test Setup Photos





Spurious Emissions (30MHz-1GHz) - Front View

Spurious Emissions (30MHz-1GHz) - Rear View



Spurious Emissions (>1GHz) - Front View



Spurious Emissions (>1GHz) - Rear View



Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	11 of 21

Supporting Equipment/Software and cabling Description

Supporting Equipment <u>7.1</u>

Item	Supporting Equipment Description	Model	Serial Number	Manufacturer	Note
1	Laptop	ES420	30437961985	Dell	-
2	Debug Adapter	203133	-	Legrand	-

7.2 Cabling Description

Name	Connection Start		Connect	ion Stop	Length / shi	Note	
Name	From	I/O Port	То	I/O Port	Length (m)	Shielding	NOLE
RJ45	Power mdule	J1	EUT	J3	1	No	-
-	-	-	-	-	-	-	-

Test Software Description 7.3

Test Item	Software	Description
RF Testing	Marvel W8782 Labtool	Set the EUT to transmit continuously in WIFI mode
RF Testing	Sigma RF-Link	Set the EUT to transmit continuously in Z-Wave mode

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Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	12 of 21

Test Summary

Tes	st Item	Те	st standard	Test Method/Procedure Pa			
	e and Radiated s Emissions	FCC/IC	15.247(d) RSS210(A8.5)	FCC/IC ANSI C63.10 – 2013 ⊠ Pass 558074 D01 DTS Meas Guidance v03r02 □ N/A			
Remark	2. The ap	All measurement uncertainties do not take into consideration for all presented test results. The applicant shall ensure frequency stability by showing that an emission is maintained within the band of operation under all normal operating conditions as specified in the user's manual.					





Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	13 of 21

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				





Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	14 of 21

10 Measurements, Examination and Derived Results

10.1 Radiated Emissions below 1GHz

Requirement(s):

Spec	Item	Requirement		Applicable
47CFR§15.247(d), RSS210(A8.5)	a)	Except higher limit as specified elsewhere is the low-power radio-frequency devices shat specified in the following table and the level exceed the level of the fundamental emissive edges Frequency range (MHz) 30 – 88 88 – 216 216 960 Above 960		
Test Setup		Semi Anechoic Char Radio Absorbing Material Ground Plane	Antenna 1-4m	m Analyzer
Procedure	1. 2. emiss 3. 4.	The EUT was switched on and allow condition. The test was carried out at the sele characterisation. Maximization of the EUT, changing the antenna polarization following manner: a. Vertical or horizontal polarical level over a full rotation of the EUT was then rotated ion. c. Finally, the antenna height maximum emission. A Quasi-peak measurement was the Steps 2 and 3 were repeated for the next for measured.	cted frequency points obtained from the emissions, was carried out by reation, and adjusting the antenna he sation (whichever gave the higher the EUT) was chosen. To the direction that gave the maximus adjusted to the height that gaven made for that frequency point.	m the EUT stating the eight in the emission mum ve the
Remark		UT was scanned up to 1GHz. Both higated. The results show only the wo	•	ere
Result	⊠ Pa	ıss □ Fail	-	

Test Data ⊠ Yes (See below) □ N/A



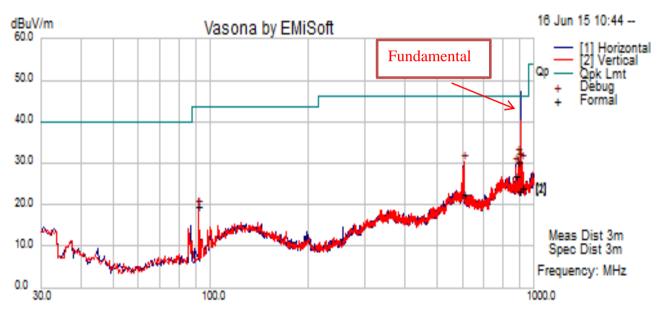


Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	15 of 21

Test Plot ⊠ Yes (See below) □ N/A

Radiated Emission Test Results (Below 1GHz)

Test specification	Below 1GHz			
	Temp (°C): 26.1			
Environmental Conditions:	Humidity (%) 47.5			
	Atmospheric (mbar):			
Mains Power:	110VAC, 60Hz		Result	Pass
Tested by:	Teody Manansala			
Test Date:	June 16, 2015			
Remarks:	Z-Wave and WLAN transmitting	g simultaneously		



Quasi Max Measurement

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
45.28	47.54	1.10	-26.78	21.86	Quasi Max	٧	138.00	339.00	40.00	-18.14	Pass
82.25	48.75	1.60	-30.74	19.61	Quasi Max	V	124.00	306.00	40.00	-20.39	Pass
52.56	45.47	1.18	-30.14	16.50	Quasi Max	٧	100.00	151.00	40.00	-23.50	Pass
65.85	43.19	1.39	-30.05	14.53	Quasi Max	Η	356.00	204.00	40.00	-25.47	Pass
33.15	33.41	1.01	-20.84	13.58	Quasi Max	٧	187.00	255.00	40.00	-26.42	Pass
100.34	41.28	1.79	-28.26	14.82	Quasi Max	٧	207.00	104.00	43.52	-28.70	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_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	16 of 21

10.2 Radiated Spurious Emissions above 1GHz

Requirement(s):

Spec	Item	Requirement	Applicable
47CFR§15.247(d), RSS210(A8.5)	a)	For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required	
		≥ 20 dB down □ 30 dB down □	
	b)	or restricted band, emission must also comply with the radiated emission limits specified in 15.209	\boxtimes
Test Setup		Semi Anechoic Chamber Radio Absorbing Material 3m LEUT 1.5m Antenna Spectrum Ana	elyzer
Procedure	1. 2. 3. 4.	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 characted Maximization of the emissions, was carried out by rotating the EUT, changing the antennal and adjusting the antennal height in the following manner: a. Vertical or horizontal polarisation (whichever gave the higher emission level over the EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum emission. c. Finally, the antennal height was adjusted to the height that gave the maximum of 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 point measured.	a polarization, er a full rotation of emission.
Remark		UT was scanned up to 25GHz. Both horizontal and vertical polarities were investigated. The worst case.	e results show
Result	⊠ Pa	ss 🗆 Fail	

Equipment Setting

TEST	RBW	VBW	SPAN	Detector	SWEEP	Trace	NOTES
Radiated Spurious Emission	1MHz	3MHz	1GHz - 18 GHz	Peak	Auto	Max hold	PK Measurement
Radiated Spurious Emission	1MHz	10Hz	1GHz - 18 GHz	Peak	Auto	Max hold	Ave Measurement

Test Data ⊠ Yes (See below) □ N/A

Test Plot ☐ Yes (See below) ☐ N/A

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Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	17 of 21

Test specification	Above 1GHz			
	Temp (°C): 26.7			
Environmental Conditions:	Humidity (%) 46.8			
	Atmospheric (mbar): 1020			
Mains Power:	110VAC, 60Hz		Result	Pass
Tested by:	Teody Manansala			
Test Date:	June 16, 2015			
Remarks:	Z-Wave and WLAN transmitting simultaneously			

Above 1GHz-18GHz- Z-Wave and WIFI transmitting simultaneously

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
1034.51	44.75	2.46	9.62	56.83	Peak Max	Н	258.00	29.00	74.00	-17.17	Pass
4117.09	40.79	5.93	11.71	58.43	Peak Max	Н	151.00	92.00	74.00	-15.57	Pass
2057.03	42.66	3.55	11.30	57.51	Peak Max	Η	168.00	48.00	74.00	-16.49	Pass
17846.18	39.74	13.00	10.75	63.49	Peak Max	٧	141.00	324.00	74.00	-10.51	Pass
13145.00	42.13	12.10	8.16	62.39	Peak Max	٧	168.00	40.00	74.00	-11.61	Pass
1034.51	31.83	2.46	9.62	43.92	Average Max	Η	258.00	29.00	54.00	-10.08	Pass
4117.09	26.91	5.93	11.71	44.55	Average Max	Н	151.00	92.00	54.00	-9.45	Pass
2057.03	29.87	3.55	11.30	44.71	Average Max	Н	168.00	48.00	54.00	-9.29	Pass
17846.18	26.76	13.00	10.75	50.51	Average Max	V	141.00	324.00	54.00	-3.49	Pass
13145.00	28.76	12.10	8.16	49.02	Average Max	٧	168.00	40.00	54.00	-4.98	Pass

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Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	18 of 21

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Conducted Emissions						
Spectrum Analyzer	N9010A	MY50210206	08/13/2014	1 Year	08/13/2015	
V-LISN (150 kHz – 30 MHz)	NNLK 8129	8129-190	08/11/2014	1 Year	08/11/2015	
LISN (9 kHz – 30 MHz)	MN2050B	1018	07/31/2014	1 Year	07/31/2015	
Radiated Emissions						
Bi-Log antenna (30MHz~2GHz)	JB1	A030702	08/12/2014	1 Year	08/12/2015	~
Horn Antenna (1-18GHz)	3115	10SL0059	08/11/2014	1 Year	08/11/2015	~
Horn Antenna (18-40 GHz)	AH-840	101013	08/11/2014	1 Year	08/11/2015	
Pre-Amplifier	LPA-6-30	11140711	02/19/2015	1 Year	02/19/2016	~
Microwave Preamplifier (18-40 GHz)	PA-840	181251	02/19/2015	1 Year	02/19/2016	
3 Meters SAC	3M	N/A	08/29/2014	1 Year	08/29/2015	•
10 Meters SAC	10M	N/A	09/05/2014	1 Year	09/05/2015	~
EMI Test Receiver	ESIB 40	100179	06/03/2015	1 Year	06/03/2016	•

Test Software Version

Test Item	Vendor	Software	Version	In Use
Radiated Emission	EMISoft	EMISoft Vasona	V5.0	\boxtimes
Conducted Emission EMISoft		EMISoft Vasona	V5.0	

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Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	19 of 21

Annex B. SIEMIC Accreditation

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



Test report No. FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0 20 of 21 Page

Japan Recognized		Radio: A1. Terminal equipment for purpose of calling
Certification Body	7	Telecom : B1. Specified radio equipment specified in Article 38-2,
Designation		Paragraph 1, Item 1 of the Radio Law
		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
Korea CAB Accreditation		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	Z	LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08
Taiwan BSMI CAB Recognition	Z	CNS 13438
Japan VCCI	ā	R-3083: Radiation 3 meter site C-3421: Main Ports Conducted Interference Measurement T-1597: Telecommunication Ports Conducted Interference Measurement
		EMC : AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4
Australia CAB Recognition	ā	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



Test report No.	FCC_IC_RF_ SL15041401-LHS-001_Co-location (HA7040)_Rev1.0
Page	21 of 21

		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	ā	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