# RF TEST REPORT



Report No.: FCC\_IC\_RF\_SL18091002-RUC-050\_Co-location Rev\_2.0

Supersede Report No.: FCC\_IC\_RF\_SL18091002-RUC-050\_Co-location Rev\_1.0

Applicant		Ruckus Wireless, Inc.
Product Name	٠.	R750 Access Point
Model No.	٠.	R750
Test Standard	•••	47 CFR 15.247 47 CFR 15.407 RSS-247 Issue 2, February 2017
Test Method		ANSI C63.10:2013 RSS-Gen Issue 5, April 2018 558074 D01 15.247 Meas Guidance v05r01 789033 D02 General U-NII Test Procedures New Rules v02r01 662911 D01 Multiple Transmitter Output v02r01 662911 D02 MIMO with Cross Polarized Antenna v01
FCC ID		S9GR750
IC	:	5912A-R750
Dates of test	:	03/04/2019-03/06/2019
Issue Date	:	06/11/2019
Test Result	:	□ Pass □ Fail
Equipment complied with the specificati Equipment did not comply with the spec		[X] ition [ ]

This Test Report is Issued Under the Authority of:	
Dem	Ch
Deon Dai	Chen Ge
Test Engineer	Engineer Reviewer
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only	

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



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# **Laboratory Introduction**

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



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

**Accreditations for Conformity Assessment** 

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC, RF/Wireless, Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless, Telecom
Taiwan	BSMI, NCC, NIST	EMC, RF, Telecom, Safety
Hong Kong	OFTA, NIST	RF/Wireless, Telecom
Australia	NATA, NIST	EMC, RF, Telecom, Safety
Korea	KCC/RRA, NIST	EMI, EMS, RF, Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC, RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom, Safety
Israel	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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# 1 Report Revision History

Report No.	Report Version	Description	Issue Date
FCC_IC_RF_SL18091002-RUC-050_Co-location	None	Original	05/23/2019
FCC_IC_RF_SL18091002-RUC-050_Co-location Rev_1.0	Rev_1.0	Update FCC ID	06/03/2019
FCC_IC_RF_SL18091002-RUC-050_Co-location Rev_2.0	Rev_2.0	Update Per Review	06/11/2019





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## 2 **Executive Summary**

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

Company:	Ruckus Wireless, Inc.	
Product:	R750 Access Point	
Model:	R750	

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	:	Ruckus Wireless, Inc.
Applicant Address	:	350 West Java Drive, Sunnyvale, California 94089 U.S.A
Manufacturer Name	:	Ruckus Wireless, Inc.
Manufacturer Address	:	350 West Java Drive, Sunnyvale, California 94089 U.S.A

# 4 Test site information

Lab performing tests	SIEMIC Laboratories
Lab Address	775 Montague Expressway, Milpitas, CA 95035
FCC Test Site No.	540430
IC Test Site No.	4842D
VCCI Test Site No.	A0133

## 5 Modification

Index	Item	Description	Note
-	-	-	-

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## **EUT Information**

#### **EUT Description** 6.1

Product Name	R750 Access Point
Model No.	R750
Trade Name	Ruckus
Serial No.	431806000043
Host Model No.	N/A
Input Power	Power Adapter: 48VDC 0.75A, or 48VDC (PoE)
Power Adapter Manu/Model	Ruckus / 740-64277-001
Power Adapter SN	N/A
Date of EUT received	02/18/2019
Equipment Class/ Category	DTS, UNII
Port/Connectors	Power Port, Ethernet*2, USB

# 6.2 Radio Description Spec for BLE:

Radio Type	BLE
Operating Frequency	2402MHz-2480MHz
Modulation	GFSK
Channel Spacing	2 MHz
Antenna Type	PIFA Antenna
Antenna Gain	2.0 dBi
Antenna Connector Type	U.FL Connector

Spec for Zigbee:

Radio Type	Zigbee
Operating Frequency	2405MHz-2480MHz
Modulation	QPSK
Channel Spacing	5 MHz
Antenna Type	PIFA Antenna
Antenna Gain	2.0 dBi
Antenna Connector Type	U.FL Connector

Spec for 2.4G WLAN

Radio Type         802.11b         802.11g         802.11n-20M         802.11n-40M           Operating Frequency         2412-2462MHz         2412-2462MHz         2422-2452MHz           Modulation         DSSS (CCK, DQPSK, DBPSK)         OFDM-CCK (BPSK, OPSK, OPSK, OPSK, OPSK, 16QAM, 64QAM)         OFDM (BPSK, QPSK, 16QAM, 64QAM)           Channel Spacing         5MHz         5MHz         5MHz           Number of Channels         11         11         11         7           Antenna Type         PCB Antenna           Antenna Gain (Peak)         2.4G: 2.0 dBi           Antenna Connector Type         I-Pex           Note         2.4GHz and 5GHz Radio transmit simultaneously	Opec for 2.40 W	<b>-</b> 7 •				
Frequency         Z412-Z462MHZ         Z412-Z462MHZ         Z412-Z462MHZ         Z412-Z462MHZ         Z412-Z462MHZ         Z422-Z432MHZ           Modulation         DSSS (CCK, DQPSK, DBPSK)         OFDM-CCK (BPSK, QPSK, 16QAM, 64QAM)         OFDM (BPSK, QPSK, 16QAM, 64QAM)         OFDM (BPSK, QPSK, 16QAM, 64QAM)         16QAM, 64QAM)         16QAM, 64QAM)         16QAM, 64QAM)         5MHz         7         7         Channels         7         7         Channels         2.4G: 2.0 dBi         2.4G: 2.0 dBi         2.4G: 2.0 dBi         1-Pex         1-Pex <td>Radio Type</td> <td>802.11b</td> <td>802.11g</td> <td>802.11n-20M</td> <td>802.11n-40M</td>	Radio Type	802.11b	802.11g	802.11n-20M	802.11n-40M	
Modulation (CCK, DQPSK, DBPSK) QPSK, 16QAM, 64QAM) 16QAM, 64QAM) 16QAM, 64QAM)  Channel Spacing 5MHz 5MHz 5MHz  Number of Channels 11 11 11 7  Antenna Type PCB Antenna  Antenna Gain (Peak)  Antenna Connector Type I-Pex		2412-2462MHz	2412-2462MHz	2412-2462MHz	2422-2452MHz	
Spacing 5MHz 5MHz 5MHz 5MHz 5MHz 5MHz 5MHz 5MHz	Modulation					
Channels  Antenna Type  Antenna Gain (Peak)  Antenna Connector Type  T1  T1  T1  T1  T1  T1  T1  T1  T1  T		5MHz	5MHz	5MHz	5MHz	
Antenna Gain (Peak)  Antenna Connector Type  2.4G: 2.0 dBi  I-Pex		11	11	11	7	
(Peak)  Antenna Connector Type  2.4G: 2.0 dBi I-Pex	Antenna Type		PCB A	ntenna		
Connector Type			2.4G: 2.0 dBi			
Note 2.4GHz and 5GHz Radio transmit simultaneously		I-Pex				
	Note	2.4GHz and 5GHz Radio transmit simultaneously				

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Spec for UNII-2A/2C

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Radio Type	802.11a/n	802.11ac/ax-20M	802.11ax-40M	802.11ac/ax-40M	802.11ac/ax-80M	
Operating Frequency	5260-5320MHz 5500-5720MHz			310MHz 710MHz	5290MHz, 5530MHz 5610MHz, 5690MHz	
Modulation	OFDM (BPSK, QPSK, 16QAM, 64QAM) 64QAM,256QAM)		OFDM (BPSK, QPSK, 16QAM, 64QAM)	OFDM (BPSK, QPSK, 16QAM, 64QAM,256QAM)	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)	
Channel Spacing	20MHz		40MHz		80MHz	
Number of Channels	16			6	4	
Antenna Type		PCB Antenna				
Antenna Gain (Peak)	5GHz: 3dBi					
Antenna Connector Type	I-pex					
Note	2.4GHz and 5GHz Radio transmit simultaneously					

Spec for UNII-1/-3

Shec for oldin-1/-3	Spec for UNII-1/-3						
Radio Type	802.11a/n (20MHz)	802.11ac/ax (20MHz)	802.11n(40MHz)	802.11ac/ax (40MHz)	802.11ac/ax (80MHz)		
Operating Frequency	5180-5240MHz 5745-5825MHz		5190-5230MHz 5755-5795MHz		5210MHz 5775MHz		
Modulation	OFDM (BPSK, QPSK, 16QAM, 64QAM)	OFDM (BPSK, QPSK, 16QAM, 64QAM,256QAM)	OFDM (BPSK, QPSK, 16QAM, 64QAM)	OFDM (BPSK, QPSK, 16QAM, 64QAM,256QAM)	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)		
Channel Spacing	20MHz		40MHz		80MHz		
Number of Channels	9			4	2		
Antenna Type		PCB Antenna					
Antenna Gain (Peak)	5GHz: 3dBi						
Antenna Connector Type	I-pex						
Note	2.4GHz and 5GHz Radio transmit simultaneously						





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# **Supporting Equipment/Software and cabling Description**

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

Item	Supporting Equipment Description	Model	Serial Number	Manufacturer	Note
1	Laptop	PP01L Latitude E5440	F1WPF12	Dell	-
2	POE Adapter	740-64211-001	133279963	Ruckus	-

#### **Cabling Description** 7.2

Nome Connection		on Start Connection		on Stop Length / shi		ielding Info	Note
Name	From	I/O Port	То	I/O Port	Length (m)	Shielding	Note
RJ45	EUT	RJ45	POE	RJ45	2	Unshielded	-
RJ45	POE	RJ45	Laptop	RJ45	2	Unshielded	-

#### <u>7.3</u> **Test Software Description**

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

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# Test Summary

Test Item		Test standard		Test Method/Procedure				
Radiated Spurious Emissions		FCC	15.247(d) 15.407(b)(2), 15.407(b)(6)	ANSI C63.10:2013 789033 D02 General U-NII Test Procedures New Rules v02r01	⊠ Pass			
		IC	RSS247 (5.5) RSS 247 (6.2)	789033 DUZ General O-NII Test Procedures New Rules VUZIOT	□ N/A			
<ol> <li>All measurement uncertainties are not taken into consideration for all presented test result.</li> </ol>								
				uency stability by showing that an emission is maintained within the	band of			
Remark				ating conditions as specified in the user's manual.	(vdeve			
Remark			ort only show worse case test result (Zigbee, 2.4G WLAN, 5G WLAN Radio transmit simultaneously).					
Ì			S bands will be disabled until approved by FCC.					
5. Only Co-location test in this report, for other details plese see test reports for FCC ID: S9GR750 IC: 5912A-R750								





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# **Measurement Uncertainty**

Emissions								
Test Item	Frequency Range	Description	Uncertainty					
AC Conducted Emissions	150KHz – 30MHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2	±3.5dB					
RF conducted measurement	150KHz – 40GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2	±0.95dB					
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)	±6dB					
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)	±6dB					





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# 10 Measurements, Examination and Derived Results

### 10.1 Radiated Spurious Emissions below 1GHz

### Requirement(s):

Spec	Requirement	Applicable
47CFR§ 15.247(d) 15.407(b) 15.209 (a) RSS247 (5.5) RSS Gen	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)	
	Above 960 500	
Test Setup	Radio Absorbing Material  Radio Absorbing Material  Ground Plane	Spectrum Analyzer
Procedure	<ol> <li>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 char Maximization of the emissions, was carried out by rotating the EUT, changing the ant adjusting the antenna height in the following manner:         <ol> <li>Vertical or horizontal polarisation (whichever gave the higher emission leve the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission c. Finally, the antenna height was adjusted to the height that gave the maximum A Quasi-peak measurement was then made for that frequency point.</li> </ol> </li> <li>Steps 2 and 3 were repeated for the next frequency point, until all selected frequency measured.</li> </ol>	enna polarization, and I over a full rotation of n. um emission.
Remark	The EUT was scanned up to 1GHz. Both horizontal and vertical polarities were investigated. only the worst case.	The results show
Result	⊠ Pass □ Fail	

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

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

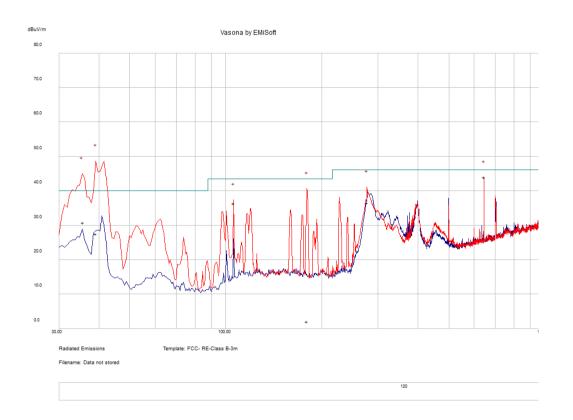
Test was done by Deon Dai at 10m chamber.



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## Radiated Emission Test Results (Below 1GHz)

Test specification	below 1GHz			
	Temp (°C): 23			
Environmental Conditions:	Humidity (%) 46			
	Atmospheric (mbar):			
Mains Power:	120VAC, 60Hz		Result	Pass
Tested by:	Deon Dai			
Test Date:	03/04/2019			
Remarks:	Zigbee,2.4G 5G WLAN transmit			



Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
39.08	35.9	11.29	-19.66	27.52	Quasi Max	V	149	327	40	-12.48	Pass
35.67	36.75	11.21	-17.09	30.87	Quasi Max	V	101	93	40	-9.13	Pass
644.54	44.98	14.99	-15.86	44.11	Quasi Max	V	100	252	46	-1.89	Pass
179.70	14.78	12.43	-25.1	2.11	Quasi Max	V	280	232	43.5	-41.4	Pass
276.75	45.94	13.15	-22.53	36.56	Quasi Max	V	126	347	46	-9.44	Pass
105.73	48.8	11.92	-24.29	36.44	Quasi Max	V	106	136	43.5	-7.06	Pass

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

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### 10.2 Radiated Spurious Emissions above 1GHz

### Requirement(s):

Spec	Item	Requirement For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the	Applicable			
	(1)	$\boxtimes$				
47CFR§	(2)	(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.				
15.247(d) 15.407(b)(2),	(3)	$\boxtimes$				
15.407(b)(6) RSS 247 Issue 2, 2017	(4)	the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.  For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.				
	(5)	(5) Restricted band, emission must also comply with the radiated emission limits specified in 15.209				
Test Setup	*/VVVVVVVV	Radio Absorbing Material  3m  FEUT  1.5m  Antenna  Ground Plane	pectrum Analyzer			
Procedure	<ol> <li>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:         <ol> <li>Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission.</li> <li>Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>An average measurement was then made for that frequency point.</li> <li>Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol>					
Remark		T was scanned up to 40GHz. Both horizontal and vertical polarities were investigated. ly the worst case.	The results			
Result	⊠ Pass	s □ Fail				
· · · · · · · · · · · · · · · · · · ·						

**Test Data** ☐ Yes (See below) ⊠ N/A **Test Plot**  $\square$  N/A Test was done by Deon Dai at 10m chamber.

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### Radiated Emission Test Results (Above 1GHz) Above 1GHz-40GHz – Co-location

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4879.54	50.55	4.17	-11.03	43.69	Peak Max	٧	158	233	74	-30.31	Pass
4824.25	53.67	4.12	-10.92	46.87	Peak Max	Н	208	148	74	-27.13	Pass
11000.35	53.77	6.13	-3.08	56.82	Peak Max	٧	180	360	74	-17.18	Pass
4879.54	35.3	4.17	-11.03	28.44	Average Max	٧	149	115	54	-25.56	Pass
4824.25	38.34	4.12	-10.92	31.54	Average Max	Н	208	234	54	-22.46	Pass
11000.35	39.23	6.13	-3.08	42.28	Average Max	V	189	208	54	-11.72	Pass





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# Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Radiated Emissions						
Keysight EXA 44GHz Spectrum Analyzer	N9030B(PXA)	MY57140374	08/20/2018	1 Year	08/20/2019	~
Bi-Log antenna (30MHz~6GHz)	JB6	A111717	08/12/2018	1 Year	08/12/2019	~
Horn Antenna (1GHz~26GHz)	3115	100059	01/26/2019	1 Year	01/26/2020	~
Horn Antenna (26GHz~40GHz)	AH-840	101013	08/28/2018	1 Year	08/28/2019	~
Pre-Amplifier(0.3MHz-6.5GHz)	LPA-6-30	11170602	02/06/2019	1 Year	02/06/2020	~
Pre-Amplifier (1-26.5GHz)	8449B	3008A00715	08/16/2018	1 Year	08/16/2019	~
Pre-Amp (10MHz~50GHz)	RAMP00M50GA	17032300047	02/10/2019	1 Year	02/10/2020	~





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# **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
EU NB		Radio & Telecommunications Terminal Equipment:  EN45001 – EN ISO/IEC 17025
		Electromagnetic Compatibility: EN45001 – EN ISO/IEC 17025
Singapore iDA CB(Certification Body)	包包	Phase I, Phase II
Vietnam MIC CAB Accreditation	7	Please see the document for the detailed scope
	7	(Phase II) OFCA Foreign Certification Body for Radio and Telecom
Hong Kong OFCA	7	(Phase I) Conformity Assessment Body for Radio and Telecom
	7	Radio: Scope A – All Radio Standard Specification in Category I
Industry Canada CAB	7	Telecom: CS-03 Part I, II, V, VI, VII, VIII





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Japan Recognized Certification Body Designation	22	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		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
		<b>Telecom:</b> 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	7	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
		<b>EMC:</b> 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		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
		<b>Telecommunications:</b> 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