

ZEBRA TECHNOLOGIES CORP

Printer Model: 110Xi4 with ZLANG-VH 802.11b/g Module & M5E UHF RFID Module

Model: M5e & ZLANG-VH

29 April 2010

Report No.: SL10032908-ZBR-023 (WLAN & RFID) PCII
(This report supersedes NONE)



Host Photo

Modifications made to the product : None

This Test Report is Issued Under the Authority of:

	
Choon Sian Ooi Test Engineer	Leslie Bai Engineering Reviewer

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EMC Test Report

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Mexico	NOM, COFETEL, Caniety	Safety, EMC , RF/Wireless, Telecom
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Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC , RF , Telecom
Canada	IC FCB, NIST	EMC , RF , Telecom
Singapore	iDA, NIST	EMC , RF , Telecom

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1 Executive Summary & EUT information

The purpose of this test programme was PCII application and to demonstrate compliance of the Zebra Technologies Corp , Printer Model: 110Xi4 with ZLANG-VH 802.11b/g Module & M5E UHF RFID radio module Model: M5e & ZLANG-VH against the current Stipulated Standards. The Printer Model: 110Xi4 with ZLANG-VH 802.11b/g Module & M5E UHF RFID radio module have demonstrated compliance with the FCC 15.247 2009 and RSS 210 Issue 7 2007.

EUT Information

EUT Description : The Printer Model: 110Xi4 with ZLANG-VH 802.11b/g Module & M5E UHF RFID radio module is a Thermal label printer.

Model No : M5e & ZLANG-VH

Serial No : 80J09430256

Input Power : 120V 60Hz

2 TECHNICAL DETAILS

Purpose	Compliance testing of DTS Radio Module with stipulated standard
Applicant / Client	Zebra Technologies Corp
Manufacturer	Zebra Technologies Corp 333 Corporate Woods Parkway Vernon Hills, IL 60061
Laboratory performing the tests	SIEMIC Laboratories
Test report reference number	SL10032908-ZBR-023 (WLAN & RFID) PCII
Date EUT received	April 08 2010
Standard applied	47 CFR §15.247 (2008) and RSS 210 Issue 7: 2007
Dates of test (from – to)	April 12 & 19 2010
No of Units:	1
Equipment Category:	DSSS
Trade Name:	Zebra Technologies Corp
Model :	M5e & ZLANG-VH
RF Operating Frequency (ies)	2412~2462MHz & 902.75~927.25MHz
Number of Channels :	11 channels (WLAN) & 50 Channels (UHF RFID)
Modulation :	CCK & OFDM (WLAN) & ISO 18000-6C (UHF-RFID)
FCC ID :	FCC ID: I28-URFIDM5E (UHF RFID) & FCC ID: I28-ZLANGVH (WLAN)
IC ID :	IC ID: URFIDM5E (UHF RFID) & IC ID: 3798B- ZLANGVH (WLAN)

4 TEST SUMMARY

The product was tested in accordance with the following specifications. All Testing has been performed according to below product classification:
Spread Spectrum System / Device

Test Results Summary

Test Standard		Description	Pass / Fail
CFR 47 Part 15.247: 2009	RSS 210 Issue 7: 2007	-	-
15.205	RSS210(A8.5)	Restricted Band of Operation	Pass
15.209; 15.247(d)	RSS210(A8.5)	Radiated Spurious Emissions	Pass
ANSI C63.4: 2003/ RSS-Gen Issue 2: 2008			
PS: All measurement uncertainties are not taken into consideration for all presented test result.			

Note: For other UHF RFID testing, please refer to FCC ID: I28-URFIDM5E & IC ID: 3798B-URFIDM5E test report.

For other WLAN testing, please refer to FCCID: I28-ZLANGVH & IC: 3798B-ZLANGVH test report

5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

5.10 Radiated Spurious Emissions > 1GHz & Band Edge

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Radiated Emissions Measurement Uncertainty
 All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 1GHz & 1GHz above (3m & 10m) is +/-6dB.
4. Environmental Conditions

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar

Test Date : April 12 & 16 2010

Tested By :Choon Sian Ooi

Standard Requirement: 47 CFR §15.247(d)

Procedures: Equipment was setup in a semi-anechoic chamber. For measurements above 1 GHz an average measurement was taken with a 10Hz video bandwidth. The EUT was tested at low, mid and high with the highest output power. Investigated up to 10th harmonic of the operating frequency.

Sample Calculation:

EUT Field Strength = Raw Amplitude(dBμV/m) – Amplifier Gain(dB) + Antenna Factor(dB) + Cable Loss(dB) + Filter Attenuation(dB, if used)

Note: The testing was performed with both radio 802.11b/g and UHF RFID are turned on

Test Result:

802.11b Low Channel & UHF RFID Low Channel @ 3 Meter

Frequency	Reading	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier	Corrected Reading	15.247/15.209	15.247/15.209	
GHz	(dBuV/m)	Degree	Meter	H / V	(dB)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin	Comments
1.806	43.98	160	1	v	25.7	2.17	31.98	39.87	74	-34.13	Peak
1.806	42.2	178	1.3	h	25.7	2.17	31.98	38.09	74	-35.91	Peak
1.806	32.44	160	1	v	25.7	2.17	31.98	28.33	54	-25.67	Ave
1.806	27.82	178	1.3	h	25.7	2.17	31.98	23.71	54	-30.29	Ave
2.708	39.97	285	1.5	v	28.8	3.21	32.08	39.9	74	-34.10	Peak
2.708	40.63	253	1.5	h	28.8	3.21	32.08	40.56	74	-33.44	Peak
2.708	26.44	285	1.5	v	28.8	3.21	32.08	26.37	54	-27.63	Ave
2.708	26.51	253	1.5	h	28.8	3.21	32.08	26.44	54	-27.56	Ave
3.611	40.49	190	1.1	v	31.2	4.98	32.37	44.3	74	-29.70	Peak
3.611	39.99	271	1.7	h	31.2	4.98	32.37	43.8	74	-30.20	Peak
3.611	26.33	190	1.1	v	31.2	4.98	32.37	30.14	54	-23.86	Ave
3.611	26.26	271	1.7	h	31.2	4.98	32.37	30.07	54	-23.93	Ave
4.825	33.56	190	1.1	v	32.2	6.26	32.49	39.53	74	-34.47	Peak
4.825	33.24	271	1.7	h	32.2	6.26	32.49	39.21	74	-34.79	Peak
4.825	27.45	190	1.1	v	32.2	6.26	32.49	33.42	54	-20.58	Ave
4.825	26.97	271	1.7	h	32.2	6.26	32.49	32.94	54	-21.06	Ave

Emission was scanned up to 25GHz.

802.11b Mid Channel & UHF RFID Mid Channel @ 3 Meter

Frequency	Reading	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier	Corrected Reading	15.247/15.209	15.247/15.209	
GHz	(dBuV/m)	Degree	Meter	H / V	(dB)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin	Comments
1.831	45.39	200	1	v	25.7	2.17	31.98	41.28	74	-32.72	Peak
1.831	44.54	187	1.2	h	25.7	2.17	31.98	40.43	74	-33.57	Peak
1.831	28.61	200	1	v	25.7	2.17	31.98	24.5	54	-29.5	Ave
1.831	29.34	187	1.2	h	25.7	2.17	31.98	25.23	54	-28.77	Ave
2.749	39.47	271	1	v	28.8	3.21	32.08	39.4	74	-34.60	Peak
2.749	39.57	159	1	h	28.8	3.21	32.08	39.5	74	-34.50	Peak
2.749	26.13	271	1.3	v	28.8	3.21	32.08	26.06	54	-27.94	Ave
2.749	25.96	159	1.4	h	28.8	3.21	32.08	25.89	54	-28.11	Ave
3.658	39.45	190	1.1	v	31.2	4.98	32.37	43.26	74	-30.74	Peak
3.658	39.24	271	1.7	h	31.2	4.98	32.37	43.05	74	-30.95	Peak
3.658	26.12	190	1.1	v	31.2	4.98	32.37	29.93	54	-24.07	Ave
3.658	26.24	271	1.7	h	31.2	4.98	32.37	30.05	54	-23.95	Ave
4.874	40.84	190	1.1	v	32.2	6.26	32.49	46.81	74	-27.19	Peak
4.874	40.34	271	1.7	h	32.2	6.26	32.49	46.31	74	-27.69	Peak
4.874	27.75	190	1.1	v	32.2	6.26	32.49	33.72	54	-20.28	Ave
4.874	26.54	271	1.7	h	32.2	6.26	32.49	32.51	54	-21.49	Ave

Emission was scanned up to 25GHz.

802.11b High Channel & UHF RFID High Channel @ 3 Meter

Frequency	Reading	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier	Corrected Reading	15.247/15.209	15.247/15.209	
GHz	(dBuV/m)	Degree	Meter	H / V	(dB)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin	Comments
1.855	42.87	24	1	v	25.7	2.17	31.98	38.76	74	-35.24	Peak
1.855	41.97	102	1	h	25.7	2.17	31.98	37.86	74	-36.14	Peak
1.855	30.93	24	1	v	25.7	2.17	31.98	26.82	54	-27.18	Ave
1.855	29.76	180	1.3	h	25.7	2.17	31.98	25.65	54	-28.35	Ave
2.783	38.56	115	1.1	v	28.8	3.21	32.08	38.49	74	-35.51	Peak
2.783	37.35	235	1.7	h	28.8	3.21	32.08	37.28	74	-36.72	Peak
2.783	25.75	115	1.1	v	28.8	3.21	32.08	25.68	54	-28.32	Ave
2.783	24.86	235	1.7	h	28.8	3.21	32.08	24.79	54	-29.21	Ave
3.710	38.75	190	1.1	v	31.2	4.98	32.37	42.56	74	-31.44	Peak
3.710	37.34	271	1.7	h	31.2	4.98	32.37	41.15	74	-32.85	Peak
3.710	25.98	190	1.1	v	31.2	4.98	32.37	29.79	54	-24.21	Ave
3.710	24.75	271	1.7	h	31.2	4.98	32.37	28.56	54	-25.44	Ave
4.930	41.23	190	1.1	v	32.2	6.26	32.49	47.2	74	-26.8	Peak
4.930	40.54	271	1.7	h	32.2	6.26	32.49	46.51	74	-27.49	Peak
4.930	27.56	190	1.1	v	32.2	6.26	32.49	33.53	54	-20.47	Ave
4.930	26.75	271	1.7	h	32.2	6.26	32.49	32.72	54	-21.28	Ave

Emission was scanned up to 25GHz.

802.11g Low Channel & UHF RFID Low Channel @ 3 Meter

Frequency	Reading	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier	Corrected Reading	15.247/15.209	15.247/15.209	
GHz	(dBuV/m)	Degree	Meter	H / V	(dB)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin	Comments
1.806	43.64	146	1.3	v	25.7	2.17	31.98	39.53	74	-34.47	Peak
1.806	43.43	147	1.4	h	25.7	2.17	31.98	39.32	74	-34.68	Peak
1.806	31.31	149	1.8	v	25.7	2.17	31.98	27.2	54	-26.80	Ave
1.806	27.23	187	1.3	h	25.7	2.17	31.98	23.12	54	-30.88	Ave
2.708	40.65	245	1.7	v	28.8	3.21	32.08	40.58	74	-33.42	Peak
2.708	39.76	269	1.6	h	28.8	3.21	32.08	39.69	74	-34.31	Peak
2.708	27.96	275	1.4	v	28.8	3.21	32.08	27.89	54	-26.11	Ave
2.708	27.13	264	1.3	h	28.8	3.21	32.08	27.06	54	-26.94	Ave
3.611	41.23	196	1.3	v	31.2	4.98	32.37	45.04	74	-28.96	Peak
3.611	40.68	274	1.5	h	31.2	4.98	32.37	44.49	74	-29.51	Peak
3.611	27.65	185	1.3	v	31.2	4.98	32.37	31.46	54	-22.54	Ave
3.611	27.13	254	1.9	h	31.2	4.98	32.37	30.94	54	-23.06	Ave
4.825	35.24	210	2.1	v	32.2	6.26	32.49	41.21	74	-32.79	Peak
4.825	34.13	253	1.4	h	32.2	6.26	32.49	40.1	74	-33.90	Peak
4.825	28.14	135	1.8	v	32.2	6.26	32.49	34.11	54	-19.89	Ave
4.825	27.13	264	2.1	h	32.2	6.26	32.49	33.1	54	-20.90	Ave

Emission was scanned up to 25GHz.

802.11g Mid Channel & UHF RFID Mid Channel @ 3 Meter

Frequency	Reading	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier	Corrected Reading	15.247/15.209	15.247/15.209	
GHz	(dBuV/m)	Degree	Meter	H / V	(dB)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin	Comments
1.831	46.76	243	1.2	v	25.7	2.17	31.98	42.65	74	-31.35	Peak
1.831	45.32	134	1.7	h	25.7	2.17	31.98	41.21	74	-32.79	Peak
1.831	29.13	214	1.3	v	25.7	2.17	31.98	25.02	54	-28.98	Ave
1.831	28.24	197	1.3	h	25.7	2.17	31.98	24.13	54	-29.87	Ave
2.749	40.13	234	2.1	v	28.8	3.21	32.08	40.06	74	-33.94	Peak
2.749	39.12	154	2.4	h	28.8	3.21	32.08	39.05	74	-34.95	Peak
2.749	27.68	286	1.2	v	28.8	3.21	32.08	27.61	54	-26.39	Ave
2.749	27.12	124	1.8	h	28.8	3.21	32.08	27.05	54	-26.95	Ave
3.658	40.23	196	2.1	v	31.2	4.98	32.37	44.04	74	-29.96	Peak
3.658	39.75	234	2.3	h	31.2	4.98	32.37	43.56	74	-30.44	Peak
3.658	26.96	254	1.4	v	31.2	4.98	32.37	30.77	54	-23.23	Ave
3.658	26.54	134	1.5	h	31.2	4.98	32.37	30.35	54	-23.65	Ave
4.874	41.23	135	1.3	v	32.2	6.26	32.49	47.2	74	-26.8	Peak
4.874	39.13	298	1.5	h	32.2	6.26	32.49	45.1	74	-28.9	Peak
4.874	28.24	234	1.1	v	32.2	6.26	32.49	34.21	54	-19.79	Ave
4.874	27.12	256	1.4	h	32.2	6.26	32.49	33.09	54	-20.91	Ave

Emission was scanned up to 25GHz.

802.11g High Channel & UHF RFID High Channel @ 3 Meter

Frequency	Reading	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier	Corrected Reading	15.247/15.209	15.247/15.209	
GHz	(dBuV/m)	Degree	Meter	H / V	(dB)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin	Comments
1.855	41.23	314	1.4	v	25.7	2.17	31.98	37.12	74	-36.88	Peak
1.855	40.67	234	1.3	h	25.7	2.17	31.98	36.56	74	-37.44	Peak
1.855	30.53	23	1.4	v	25.7	2.17	31.98	26.42	54	-27.58	Ave
1.855	29.24	242	1.1	h	25.7	2.17	31.98	25.13	54	-28.87	Ave
2.783	39.35	145	1.8	v	28.8	3.21	32.08	39.28	74	-34.72	Peak
2.783	38.24	176	2.1	h	28.8	3.21	32.08	38.17	74	-35.83	Peak
2.783	26.24	123	1.4	v	28.8	3.21	32.08	26.17	54	-27.83	Ave
2.783	25.25	154	2.1	h	28.8	3.21	32.08	25.18	54	-28.82	Ave
3.710	39.35	243	1.4	v	31.2	4.98	32.37	43.16	74	-30.84	Peak
3.710	38.36	145	1.3	h	31.2	4.98	32.37	42.17	74	-31.83	Peak
3.710	25.86	187	1.2	v	31.2	4.98	32.37	29.67	54	-24.33	Ave
3.710	24.35	342	1.8	h	31.2	4.98	32.37	28.16	54	-25.84	Ave
4.930	41.65	134	2.5	v	32.2	6.26	32.49	47.62	74	-26.38	Peak
4.930	40.24	128	2.1	h	32.2	6.26	32.49	46.21	74	-27.79	Peak
4.930	27.24	175	1.4	v	32.2	6.26	32.49	33.21	54	-20.79	Ave
4.930	26.97	143	1.3	h	32.2	6.26	32.49	32.94	54	-21.06	Ave

Emission was scanned up to 25GHz.

Annex A. TEST INSTRUMENT & METHOD

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Manufacturer	Model	CAL Due Date
Spectrum Analyzer	HP	8564E	04/26/2010
EMI Receiver	Rohde & Schwarz	ESIB 40	4/25/2010
R&S LISN	R&S	ESH2-Z5	04/24/2010
CHASE LISN	Chase	MN2050B	04/24/2010
Antenna(1 ~18GHz)	Emco	3115	04/01/2011
Antenna (30MHz~2GHz)	Sunol Sciences	JB1	04/01/2011
Chamber	Lingren	3m	04/18/2011
Pre-Amplifier(1 ~ 26GHz)	HP	8449	04/24/2010
Horn Antenna (18~40GHz)	Com Power	AH-840	03/19/2011
Microwave Pre-Amp (18~40GHz)	Com Power	PA-840	03/19/2011

Note: No calibration required.

Annex A.ii. CONDUCTED EMISSIONS TEST DESCRIPTION

Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in [Annex B](#).
2. The power supply for the EUT was fed through a 50Ω/50μH EUT LISN, connected to filtered mains.
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
4. All other supporting equipments were powered separately from another main supply.

Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
3. High peaks, relative to the limit line, were then selected.
4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 KHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

Sample Calculation Example

At 20 MHz	limit = 250 μV = 47.96 dBμV
Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB	
Q-P reading obtained directly from EMI Receiver = 40.00 dBμV	
	(Calibrated for system losses)
Therefore, Q-P margin = 47.96 – 40.00 = 7.96	i.e. 7.96 dB below limit

Annex A. iii RADIATED EMISSIONS TEST DESCRIPTION

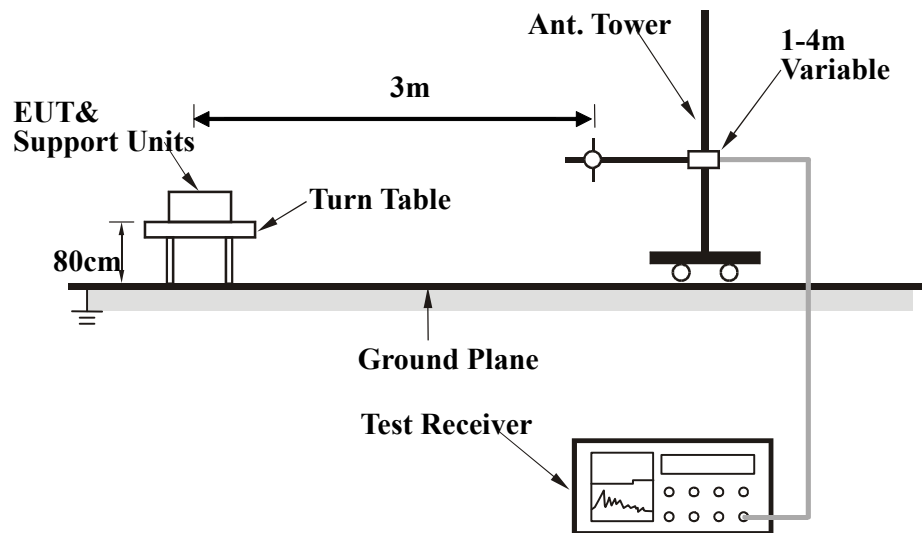
EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 10th Harmonic , was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS).

Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.



Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

Final Radiated Emission Measurement

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.
5. Repeat step 4 until all frequencies need to be measured were complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Sample Calculation Example

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any)

And the average value is

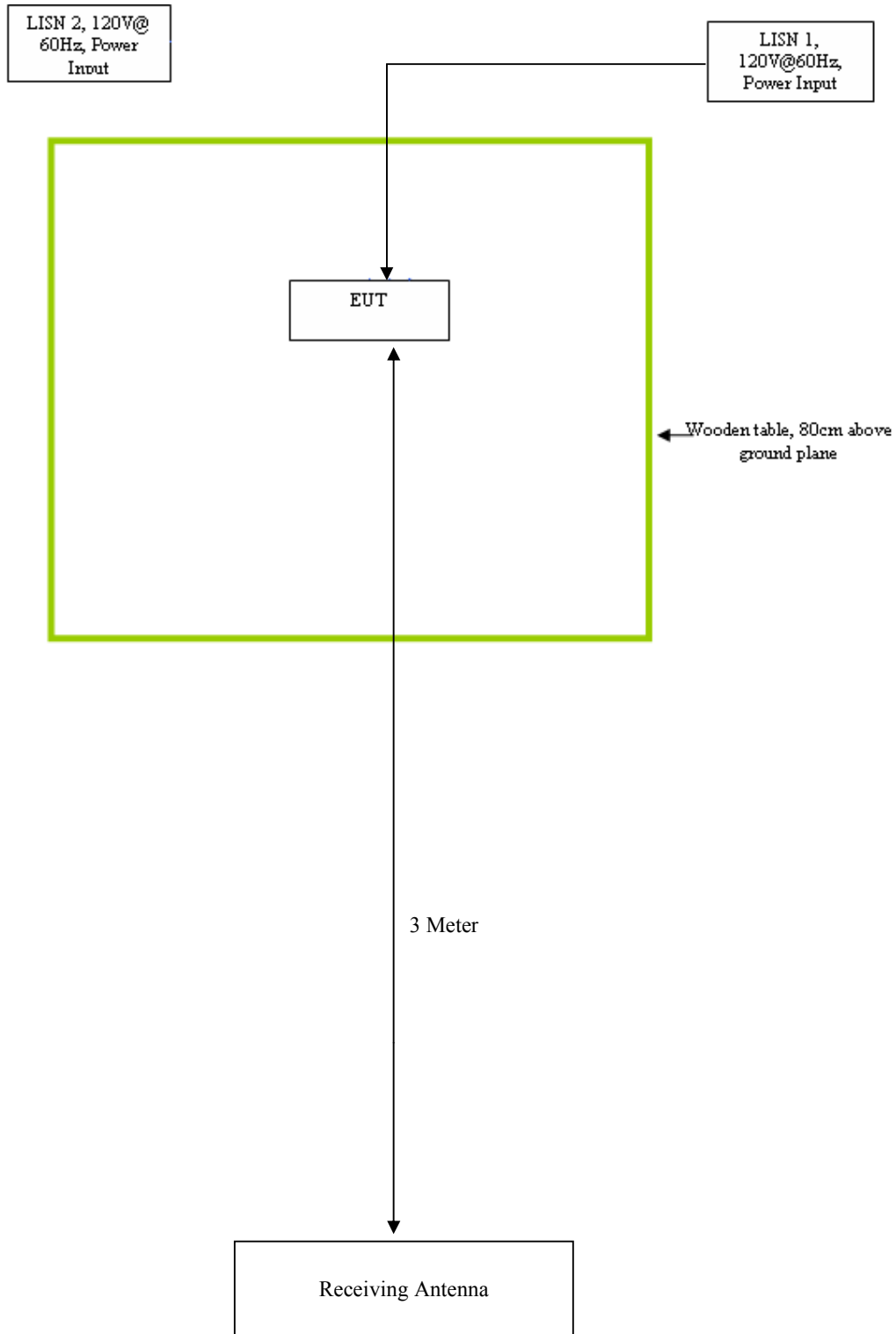
$$\text{Average} = \text{Peak Value} + \text{Duty Factor or}$$

$$\text{Set RBW} = 1\text{MHz, VBW} = 10\text{Hz.}$$

Note :

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.

Block Configuration Diagram for Radiated Emission



Block Configuration Diagram for Conducted Emission

N/A

Annex C.ii. EUT OPERATING CONDITIONS

The following is the description of how the EUT was exercised during testing.

Test	Description Of Operation
Emissions Testing	The EUT was configured using manufacturer’s program to simulate the worst case.

Annex D USER MANUAL, BLOCK & CIRCUIT DIAGRAM

Please see attachment

Annex E SIEMIC ACCREDITATION

SIEMIC ACREDITATION DETAILS: A2LA Certificate Number: 2742.01





SCOPE OF ACCREDITATION TO ISO/IEC GUIDE 65:1996

SIEMIC INC
2206 Ringwood Ave
San Jose, CA 95131

Mr. Snell Leong (Authorized Representative) Phone: 408 526 1188

www.siemic.com

PRODUCT CERTIFICATION CONFORMITY ASSESSMENT BODY (CAB)

Valid to: September 30, 2010

Certificate Number: 2742.02

In recognition of the successful completion of the A2LA Certification Body Accreditation Program evaluation, including the US Federal Communications Commission (FCC), Industry Canada (IC) and Singapore (IDA) requirements for the indicated types of product certifications, accreditation is granted to this organization to perform the following product certification schemes:

Economy

Scope

Federal Communication Commission - (FCC)

Unlicensed Radio Frequency Devices	A1, A2, A3, A4
Licensed Radio Frequency Devices	B1, B2, B3, B4
Telephone Terminal Equipment	C

**Please refer to FCC TCB Program Roles and Responsibilities, v04, released February 14, 2008 detailing scope, roles and responsibilities: <http://www.fcc.gov/oc/tcb/FCC-Overview-TCB-Program.pdf>*

Industry Canada - (IC)

Radio	All Radio Standards Specifications (RSS) in Category I Equipment Standards List Radio
-------	------------------------------------------------------------------------------------------

**Please refer to Industry Canada (IC) website at: http://www.ic.gc.ca/eppres/presmt-gst/inf/en/1_101542e.html*

IDA – Singapore

Line Terminal Equipment	All Technical Specifications for Line Terminal Equipment – Table 1 of IDA MRA Recognition Scheme: 2008, Annex 2
Radio-Communication Equipment	All Technical Specifications for Radio-Communication Equipment – Table 2 of IDA MRA Recognition Scheme: 2008, Annex 2

**Please refer to Info-Communication Development Authority (IDA) Singapore website at:
http://www.ida.gov.sg/dae/Policies%20and%20Regulations/Policies_and_Regulation_Level2/20080609/45118/MLR_RacScheme.pdf*

SIEMIC ACREDITATION DETAILS: FCC Test Site Registration No. 783147

FEDERAL COMMUNICATIONS COMMISSION

**Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046**

December 20, 2007

Registration Number: 783147

SIEMIC Laboratories
2206 Ringwood Avenue,
San Jose, CA 95131

Attention: Leslie Bai

Re: Measurement facility located at San Jose
3 & 10 meter site
Date of Renewal: December 20, 2007

Dear Sir or Madam:

Your request for renewal of the registration of the subject measurement facility has been received. The information submitted has been placed in your file and the registration has been renewed. The name of your organization will remain on the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website www.fcc.gov under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely,

Phyllis Parrish
Industry Analyst

SIEMIC ACREDITATION DETAILS: Industry of Canada CAB ID : US0160



UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899

March 4, 2009

Mr. Leslie Bai
SIEMIC, Inc.
2206 Ringwood Avenue
San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by Industry Canada (IC), under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, **Phase I** Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: SIEMIC, Inc.
Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131 USA
Identification No.: US0160
Recognized Scope: CS-03 Part I, II, V, VI, VII and VIII

You may submit test data to IC to verify that the equipment to be imported into Canada satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.

Recognized CABs are listed on the NIST website at <http://ts.nist.gov/mra>. Please contact Ms. Ramona Saar at (301) 975-5521 or ramona.saar@nist.gov if you have any questions.

Sincerely,

David F. Alderman
Group Leader, Standards Coordination and Conformity Group
Standards Services Division

Enclosure

cc: CAB Program Manager

NIST

SIEMIC ACREDITATION DETAILS: Industry of Canada Test Site Registration No. 4842-1



May 23rd, 2008

OUR FILE: 46405-4842

Submission No: 126429

Siemic Inc.
 2206 Ringwood Ave.
 San Jose CA 95131
 USA

Attention: Leslie Bai

Dear Sir/Madame:

The Bureau has received your application for the registration / renewal of a 3/10m OATS. Be advised that the information received was satisfactory to Industry Canada. The following number(s) is now associated to the site(s) for which registration / renewal was sought (**4842A-1**). Please reference the appropriate site number in the body of test reports containing measurements performed on the site. In addition, please be informed that the Bureau is now utilizing a **new site numbering scheme** in order to simplify the electronic filing process. Our goal is to reduce the number of secondary codes associated to one particular company. The following changes have been made to your record.

- Your primary code is: **4842**
- The company number associated to the site(s) located at the above address is: **4842A**
- The table below is a summary of the changes made to the unique site registration number(s):

New Site Number	Obsolete Site Number	Description of Site	Expiry Date (YYYY-MM-DD)
4842A-1	4842-1	3m Chamber	2010-05-23

Furthermore, to obtain or renew a unique site number, the applicant shall demonstrate that the site has been accredited to ANSI C63.4-2003 or later. A scope of accreditation indicating the accreditation by a recognized accreditation body to ANSI C63.4-2003 shall be accepted. Please indicate in a letter the previous assigned site number if applicable and the type of site (example: 3 meter OATS or 3 meter chamber). If the test facility is not accredited to ANSI C63.4-2003 or later, the test facility shall submit test data demonstrating full compliance with the ANSI standard. The Bureau will evaluate the filing to determine if recognition shall be granted.

The frequency for re-validation of the test site and the information that is required to be filed or retained by the testing party shall comply with the requirements established by the accrediting organization. However, in all cases, test site re-validation shall occur on an interval not to exceed two years. There is no fee or form associated with an OATS filing. OATS submissions are encouraged to be submitted electronically to the Bureau using the following URL:
http://strategis.ic.gc.ca/epic/internet/inceb-bhst.nsf/en/h_1100052e.html.

If you have any questions, you may contact the Bureau by e-mail at certification.bureau@ic.gc.ca. Please reference our file and submission number above for all correspondence.

Yours sincerely,



S. Prodx
 Test & Measurement Specialist
 Certification and Engineering Bureau
 3701 Carling Ave., Building 94
 Ottawa, Ontario K2H 8S2

SIEMIC ACREDITATION DETAILS: FCC DOC CAB Recognition : US1109

FEDERAL COMMUNICATIONS COMMISSION

**Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046**

August 28, 2008

Siemic Laboratories
2206 Ringwood Ave.,
San Jose, CA 95131

Attention: Leslie Bai

Re: Accreditation of Siemic Laboratories
Designation Number: US1109
Test Firm Registration #: 540430

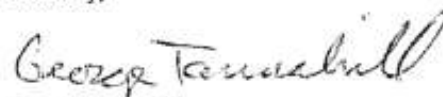
Dear Sir or Madam:

We have been notified by American Association for Laboratory Accreditation that Siemic Laboratories has been accredited as a Conformity Assessment Body (CAB).

At this time Siemic Laboratories is hereby designated to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification under Parts 15 and 18 of the Commission's Rules.

This designation will expire upon expiration of the accreditation or notification of withdrawal of designation.

Sincerely,



George Tannahill
Electronics Engineer

SIEMIC ACREDITATION DETAILS: Australia CAB ID : US0160



UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899-

November 20, 2008

Mr. Leslie Bai
SIEMIC, Inc.
2206 Ringwood Avenue
San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the Australian Communications and Media Authority (ACMA) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, **Phase I** Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: Siemic, Inc.
Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131
Identification No.: US0160
Recognized Scope: EMC: AS/NZS 4251.1 (until 5/31/2009), AS/NZS 4251.2 (until 5/31/2009), AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR 22, AS/NZS 61000.6.3, AS/NZS 61000.6.4
Radiocommunications: 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/NZS 60950.1

You may submit test data to ACMA to verify that the equipment to be imported into Australia satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements. Recognized CABs are listed on the NIST website at <http://ts.nist.gov/mra>. Please contact Ms. Ramona Saar, at (301) 975-5521 or ramona.saar@nist.gov if you have questions.

Sincerely,




David F. Alderman
Group Leader, Standards Coordination and Conformity Group
Standards Services Division

Enclosure

cc: Snell Leong, Siemic, Inc.; Ramona Saar, NIST

NIST


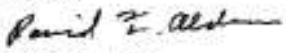

SIEMIC ACREDITATION DETAILS: Korea CAB ID: US0160

		UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899
October 1, 2008		
Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131		
Dear Mr. Bai:		
NIST is pleased to inform you that your laboratory has been recognized by the Radio Research Agency (RRA) Korea Communications Commission (KCC) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:		
CAB Name:	SIEMIC, Inc.	
Physical Location:	2206 Ringwood Avenue, San Jose, CA 95131	
Identification No.:	US0160	
Recognized Scope:	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, KN-61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS Wireless: 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 Wired: 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	
You may submit test data to RRA/KCC to verify that the equipment to be imported into Korea satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.		
Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra . If you have any questions please contact Ramona Saar at (301) 975-5521 or ramona.saar@nist.gov .		
Sincerely,  David F. Alderman Group Leader, Standards Coordination and Conformity Group Standards Services Division		
Enclosure		
cc: Ramona Saar		
		

SIEMIC ACREDITATION DETAILS: Taiwan BSMI Accreditation No. SL2-IN-E-1130R

	UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20885
May 3, 2006	
Mr. Leslie Bai SIEMIC Laboratories 2206 Ringwood Avenue San Jose, CA 95131	
Dear Mr. Bai:	
<p>I am pleased to inform you that your laboratory has been recognized by the Chinese Taipei's Bureau of Standards, Metrology, and Inspection (BSMI) under the Asia Pacific Economic Cooperation (APEC) Mutual Recognition Arrangement (MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. You may submit test data to BSMI to verify that the equipment to be imported into Chinese Taipei satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements. The pertinent designation information is as follows:</p> <ul style="list-style-type: none">- BSMI number: SL2-IN-E-1130R (Must be applied to the test reports)- U.S. Identification No: US0160- Scope of Designation: CNS 13438- Authorized signatory: Mr. Leslie Bai <p>The names of all recognized CABs will be posted on the NIST website at http://ts.nist.gov/mra. If you have any questions, please contact Mr. Dhillon at 301-975-5521. We appreciate your continued interest in our international conformity assessment activities.</p>	
Sincerely,	
	
David F. Alderman Group Leader, Standards Coordination and Conformity Group	
cc: Joginder Dhillon	
	

SIEMIC ACREDITATION DETAILS: Taiwan NCC CAB ID: US0160

	UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20889										
<p>November 25, 2008</p> <p>Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131</p> <p>Dear Mr. Bai:</p> <p>NIST is pleased to inform you that your laboratory has been recognized by the National Communications Commission (NCC) for the requested scope expansion under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:</p> <table border="0"><tr><td>CAB Name:</td><td>SIEMIC, Inc.</td></tr><tr><td>Physical Location:</td><td>2206 Ringwood Avenue, San Jose, CA 95131</td></tr><tr><td>Identification No.:</td><td>US0160</td></tr><tr><td>Current Scope:</td><td>LP0002</td></tr><tr><td>Additional Scope:</td><td>PSTN01, ADSL01, ID0002, IS6100 and CNS 14336</td></tr></table> <p>You may submit test data to NCC to verify that the equipment to be imported into China satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.</p> <p>Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. If you have any questions please contact Ramona Saar at (301) 975-5521 or ramona.saar@nist.gov.</p> <p>Sincerely,</p> <p> David F. Alderman Group Leader, Standards Coordination and Conformity Group Standards Services Division</p> <p>Enclosure</p> <p>cc: Ramona Saar</p> <p></p>		CAB Name:	SIEMIC, Inc.	Physical Location:	2206 Ringwood Avenue, San Jose, CA 95131	Identification No.:	US0160	Current Scope:	LP0002	Additional Scope:	PSTN01, ADSL01, ID0002, IS6100 and CNS 14336
CAB Name:	SIEMIC, Inc.										
Physical Location:	2206 Ringwood Avenue, San Jose, CA 95131										
Identification No.:	US0160										
Current Scope:	LP0002										
Additional Scope:	PSTN01, ADSL01, ID0002, IS6100 and CNS 14336										

SIEMIC ACREDITATION DETAILS: Mexico NOM Recognition



SIEMIC ACREDITATION DETAILS: Hong Kong OFTA CAB ID : US0160



UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899

December 8, 2008

Mr. Leslie Bai
SIEMIC, Inc.
2206 Ringwood Avenue
San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the Office of the Telecommunications Authority (OFTA) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, **Phase I** Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name:	SIEMIC, Inc.
Physical Location:	2206 Ringwood Avenue, San Jose, California 95131 USA
Identification No.:	US0160
Recognized Scope:	Radio: HKTA 1002, 1007, 1008, 1010, 1015, 1016, 1020, 1022, 1026, 1027, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1039, 1041, 1042, 1043, 1044, 1046, 1047, 1048, 1049, 1051 Telecom: HKTA 2011, 2012, 2013, 2014, 2017, 2018, 2022, 2024, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033

You may submit test data to OFTA to verify that the equipment to be imported into Hong Kong satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.

Recognized CABs are listed on the NIST website at <http://ts.nist.gov/mra>. If you have any questions please contact Ramona Saar at (301) 975-5521 or ramona.saar@nist.gov.

Sincerely,

David F. Alderman
Group Leader, Standards Coordination and Conformity Group
Standards Services Division

Enclosure

cc: Ramona Saar

NIST

SIEMIC ACREDITATION DETAILS: Australia ACMA CAB ID: US0160



UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899

November 20, 2008

Mr. Leslie Bai
SIEMIC, Inc.
2206 Ringwood Avenue
San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the Australian Communications and Media Authority (ACMA) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, **Phase I** Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: Siemic, Inc.
Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131
Identification No.: US0160
Recognized Scope: EMC: AS/NZS 4251.1 (until 5/31/2009), AS/NZS 4251.2 (until 5/31/2009), AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR 22, AS/NZS 61000.6.3, AS/NZS 61000.6.4
Radiocommunications: 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/NZS 60950.1

You may submit test data to ACMA to verify that the equipment to be imported into Australia satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements. Recognized CABs are listed on the NIST website at <http://ts.nist.gov/nra>. Please contact Ms. Ramona Saar, at (301) 975-5521 or ramona.saar@nist.gov if you have questions.

Sincerely,

David F. Alderson

David F. Alderman
Group Leader, Standards Coordination and Conformity Group
Standards Services Division

Enclosure

cc: Snell Leong, Siemic, Inc.; Ramona Saar, NIST

NIST

SIEMIC ACREDITATION DETAILS: Australia NATA Recognition



Leslie Bai
SIEMIC, Inc.
2205 Ringwood Avenue
San Jose, CA 95131

November 4, 2008

Under Australian government legislation, the Australian Communications and Media Authority (ACMA) has determined the National Association of Testing Authorities, Australia (NATA) as an accreditation body as per Section 409(1) of the Telecommunications Act 1997 (Cth). Pursuant to Section 409(2) of the Telecommunications Act 1997 (Cth), I am pleased to advise that your laboratory has been determined as a Recognised Testing Authority (RTA).

This determination has been made on the basis of your accreditation by A2LA accreditation no. 2742.01 and the Mutual Recognition Agreement between NATA and A2LA. It is effective from 11 July 2008. RTA status applies only to the following standards and is contingent upon their continued inclusion in your laboratory's scope of accreditation.

**AS/ACIF S002, AS/ACIF S003, AS/ACIF S004,
AS/ACIF S006, AS/ACIF S016, AS/ACIF S031,
AS/ACIF S038, AS/ACIF S041 and
AS/ACIF S043.2**

As an RTA, your laboratory has the following obligations:

1. the laboratory shall continue to meet all of the accreditation criteria of A2LA;
2. the authorised representative of the laboratory shall notify NATA of changes to the staff or operations of the laboratory which would affect the performance of the tests for which the laboratory has been determined;
3. compliance of equipment shall be reported on test reports bearing the A2LA logo/endorsement.

Current information on the Australian Communications and Media Authority and regulatory requirements for telecommunications products within Australia can be obtained from the ACMA's web-site at "<http://www.acma.gov.au>". Further information about NATA may be gained by visiting "<http://www.nata.asn.au>".




Please note that AS/ACIF S040 and New Zealand standards do not form part of the RTA scheme.

Your RTA listing will appear on the NATA website shortly.

Kind Regards

Chris Norton,
Senior Scientific Officer
Measurement Science and Technology
National Association of Testing Authorities (NATA)
71-73 Flemington Road
North Melbourne Vic. 3051
Australia
Ph: +61 3 9329 1633 Ex: +61 3 9326 5148
E-Mail: Christopher.Norton@nata.asn.au
Internet: www.nata.asn.au

SIEMIC ACREDITATION DETAILS: VCCI Radiated Test Site Registration No. R-3083

	
	VCCI Council
<h1>CERTIFICATE</h1>	
Company: SIEMIC Inc.	
<Member No. 3081 >	
Facility: SIEMIC Inc.	
(Radiation 3 meter site)	
Location of Facility:	
2206 Ringwood Avenue, San Jose, CA 95131 USA	
<i>This is to certify that the following measuring facility has been registered in accordance with the Rules for Voluntary Control Measures</i>	
Registration No.: R-3083	
Date of Registration: June 12 , 2009	
This Certificate is valid until September 30 , 2010	
	VCCI Council
	
	



VCCI Council

CERTIFICATE

Company: SIEMIC Inc.

<Member No. 3081 >

Facility: SIEMIC Inc.

(Main Ports Conducted Interference Measurement)

Location of Facility:

2206 Ringwood Avenue, San Jose, CA 95131 USA

*This is to certify that the following measuring facility
has been registered in accordance with the Rules
for Voluntary Control Measures*

Registration No.: C-3421

Date of Registration: June 12, 2009

This Certificate is valid until September 30 , 2010

VCCI Council



SIEMIC ACREDITATION DETAILS: VCCI Conducted (Telecom Port) Test Site Registration No. T-1597

	 VCCI Council
<h1>CERTIFICATE</h1>	
Company: SIEMIC Inc. <Member No. 3081 >	
Facility: SIEMIC Inc. (Telecommunication Ports Conducted Interference Measurement)	
Location of Facility: 2206 Ringwood Avenue, San Jose, CA 95131 USA	
<i>This is to certify that the following measuring facility has been registered in accordance with the Rules for Voluntary Control Measures</i>	
Registration No.: T-1597 Date of Registration: June 12 , 2009 This Certificate is valid until September 30 , 2010	
	VCCI Council  