FCC TEST REPORT

for

Rimova International Inc.

Smart watch

Model Number: Igni

FCC ID: 2ACOY-IGNI

Prepared for : Rimova International Inc.

Address : 2121 Avenue of the Stars, Suite 2300, Los Angeles CA,

90067. United States of America

Prepared by: Keyway Testing Technology Co., Ltd.

Address : Baishun Industrial Zone, Zhangmutou Town,

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Report No. : 14KWE07158701R

Date of Test : Jul. 1~7, 2014 Date of Report : Jul. 7, 2014

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Keyway Testing Technology Co., Ltd.

Applicant: Rimova International Inc.

Address: 2121 Avenue of the Stars, Suite 2300, Los Angeles CA,

90067. United States of America

Manufacturer: Gayeek International Co., Ltd.

Address: 5F, TongSheng Technology Building A, Huahui RD., Shanghenglang

Village, LongHua, Shenzhen, China.

E.U.T: Smart watch

Model Number: Igni

Trade Name: Igni Serial No.: -----

Date of Receipt: Jul. 1, 2014 Date of Test: Jul. 1~7, 2014

Test Specification: FCC Part 15, Subpart B: Oct. 1, 2013

ANSI C63.4:2009

Test Result:

The equipment under test was found to be compliance with the

requirements of the standards applied.

Issue Date: Jul. 7, 2014

Tested by:

Reviewed by:

Andy Gao / Engineer

Jade Yang / Supervisor

Chris Du / Manager

Approved by:

Other Aspects:

None.

Abbreviations: OK/P=passed

fail/F=failed

n.a/N=not applicable

E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Keyway Testing Technology Co., Ltd.

1. TEST SUMMARY

Test Items	Test Requirement	Uncertainty	Result
Conducted Emissions	15.107 ANSI C63.4	±2.6dB	PASS
Radiated Emissions	15.109 ANSI C63.4	±3.6dB	PASS

2. GENERAL PRODUCT INFORMATION

2.1. Product Function

Refer to Technical Construction Form and User Manual.

2.2. Description of Device (EUT)

Product Name:	Smart watch
Model No.:	Igni
	Bluetooth:2402~2480MHz
	WIFI:2412MHz~2462MHz (802.11b/802.11g/802.11n(H20))
	2422MHz~2452MHz (802.11n(H40))
	GSM 850MHz:
	Tx: 824.20 - 848.80MHz (at intervals of 200kHz); Rx: 869.20 - 893.80MHz (at intervals of 200kHz)
Operation Frequency:	GSM 1900MHz:
	Tx: 1850.20 - 1909.80MHz (at intervals of 200kHz);
	Rx: 1930.20 - 1989.80MHz (at intervals of 200kHz)
	WCDMA Band II:
	TX: 1852.4MHz - 1907.6MHz,
	RX: 1932.4MHz - 1987.6MHz
	Bluetooth:79 Channels
Channel numbers:	WIFI:13 Channel for 802.11b/g/n(HT20),
	7 Channel for 802.11n(HT40)
Channel separation:	Bluetooth:1M WIFI:5M
	Bluetooth: FHSS(GFSK 1Mbps),Pi/4DQPSK(EDR 2Mbps),
	8-DQPSK(EDR 3Mbps)
Mad laga dada ala	WIFI DBPSK/ DQPSK/CCK/BPSK/ QPSK/ 16QAM/ 64QAM
Modulation technology:	GSM/GPRS Mode with GMSK Modulation
	WCDMA Mode with BPSK Modulation
	HSDPA Mode with QPSK, 16QAM Modulation
	HSUPA Mode with QPSK, 16QAM Modulation
Antenna Type:	Integral Antenna
Antenna gain:	1dBi (BT &WIFI), 1.2dBi (GSM850),
Antenna yanı.	1.5dBi (WCDMA/PCS1900)
Davier aventu	DC 5V from adapter
Power supply:	Rechargeable lithium-ion battery 3.7V
Multislot Class:	12
EGPRS Class:	12

2.3. Difference between Model Numbers

None.

2.4. Independent Operation Modes

Test mode:						
Keep the EUT in Playing mode						
Keep the EUT in Video Recording mode						
Keep the EUT in Charging mode						
Keep the EUT in Camera mode						
Keep the EUT in GPS receive mode						
Keep the EUT in data transmitting mode						

Pre-scan all modes, and found the data transmitting mode which is the worst mode, so only the data of worst mode was show on the test report.

2.5. Test Supporting System

2.5.1. TF card

Manufacturer: HC

M/N: 11089060470CV

2.5.2. PC

Manufacturer: Lenovo

M/N: Lenovo G475 FCC Approve: FCC DOC

2.5.3. AC Adapter:

Provide: Keyway

M/N: JK060500550V

FCC Approve: FCC VOC

2.5.4. Modem

Manufacturer: Keyway
Model Number: MS14
FCC Approve: FCC DOC

2.5.5. Mouse

Manufacturer SHENGLIAN Model Number MS111-L FCC Approve: FCC DOC

2.5.6. Keyboard

Manufacturer DELL
Model Number KB212-B
FCC Approve: FCC DOC

3. TEST SITES

3.1. Test Facilities

Lab Qualifications: 944 Shielded Room built by ETS-Lindgren, USA

Date of completion: March 28, 2011

966 Chamber built by ETS-Lindgren, USA

Date of completion: March 28, 2011

Certificated by TUV Rheinland, Germany.

Registration No.: UA 50207153 Date of registration: July 13, 2011

Certificated by UL, USA Registration No.: 100567237

Date of registration: September 5, 2012

Certificated by Intertek

Registration No.: 2011-RTL-L1-31 Date of registration: October 11, 2011

Certificated by Industry Canada

Registration No.: 9868A

Date of registration: December 8, 2011

Certificated by FCC, USA Registration No.: 370994

Date of registration: February 21, 2012

Certificated by CNAS China Registration No.: CNAS L5783

Date of registration: August 8, 2012

Name of Firm Keyway Testing Technology Co., Ltd.

Site Location Baishun Industrial Zone, Zhangmutou Town,

Dongguan, Guangdong, China

3.2. List of Test and Measurement Instruments

3.2.1. For conducted emission at the mains terminals test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCI	101156	Apr. 27,14	Apr. 27,15
Artificial Mains Network	Rohde&Schwarz	ENV216	101315	Apr. 27,14	Apr. 27,15
Artificial Mains Network (AUX)	Rohde&Schwarz	ENV216	101314	Apr. 27,14	Apr. 27,15
RF Cable	FUJIKURA	3D-2W	944 Cable	Apr. 27,14	Apr. 27,15

3.2.2. For radiated emission test

		T		1	
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCI	101156	Apr. 27,14	Apr. 27,15
System Simulator	Agilent	E5515C	GB43130245	Apr. 30,14	Apr. 30,15
Power Splitter	Weinschel	1506A	NW425	Apr. 30,14	Apr. 30,15
Bilog Antenna	ETS-LINDGREEN	3142D	135452	Apr. 27,14	Apr. 27,15
Loop antenna	teseq	HLA6120	22032	Apr. 30,14	Apr. 30,15
Spectrum Analyzer	Agilent	E4411B	MY4511304	Apr. 27,14	Apr. 27,15
3m Semi-anechoic Chamber	ETS-LINDGREEN	966	KW01	Apr. 27,14	Apr. 27,15
Signal Amplifier	SONOMA	310	187016	Apr. 27,14	Apr. 27,15
Signal Amplifier	Agilent	8449B	3008A00251	Apr. 27,14	Apr. 27,15
RF Cable	IMRO	IMRO-400	966 Cable 1#	N/A	N/A
MULTI-DEVICE Controller	ETS-LINDGREEN	2090	126913	N/A	N/A
Horn Antenna	DAZE	ZN30701	11003	Apr. 27,14	Apr. 27,15
Horn Antenna	SCHWARZBECK	BBHA9170	9170-068	Apr. 27,14	Apr. 27,15
Spectrum Analyzer	Agilent	8593E	3911A04271	Apr. 27,14	Apr. 27,15
Spectrum Analyzer	Agilent	E4408B	MY44211125	Apr. 30,14	Apr. 30,15
Signal Amplifier	DAZE	ZN3380C	11001	Apr. 27,14	Apr. 27,15
High Pass filter	Micro	HPM50111	324216	Apr. 30,14	Apr. 30,15
Filter	COM-MW	ZBSF-C836.5-25-X	KW032	Apr. 30,14	Apr. 30,15
Filter	COM-MW	ZBSF-C1747.5-75-X2	KW035	Apr. 30,14	Apr. 30,15
Filter	COM-MW	ZBSF-C1880-60-X2	KW037	Apr. 30,14	Apr. 30,15
DC Power Supply	LongWei	PS-305D	010964729	Apr. 27,14	Apr. 27,15
Constant temperature and humidity box	GF	GTH-800-40-1P	MAA9906-005	Apr. 27,14	Apr. 27,15
Universal radio communication tester	Rohde&Schwarz	CMU200	3215420	Apr. 27,14	Apr. 27,15
Splitter	Agilent	11636B	0025164	Apr. 27,14	Apr. 27,15

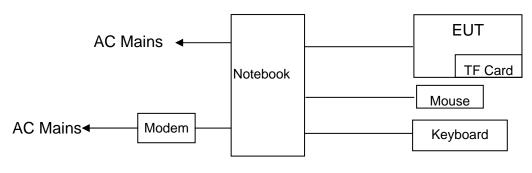
4. TEST SET-UP AND OPERATION MODES

4.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

4.2. Block Diagram of Test Set-up

System Diagram of Connections between EUT and Simulators



(EUT: Smart watch)

4.3. Test Operation Mode and Test Software Refer to Test Setup in clause 4.

- 4.4. Special Accessories and Auxiliary Equipment None.
- 4.5. Countermeasures to Achieve EMC Compliance None.

5. EMISSION TEST RESULTS

5.1. Conducted Emission at the Mains Terminals Test

Result : Pass

Test Procedure : ANSI C63.4:2009 Frequency Range : 0.15 to 30 MHz

Test Site : 944 Shielded Room

Limits : FCC Part 15, Subpart B: Oct. 1, 2013

Test Setup

The EUT was put on a wooden table which was 0.8 m high above the ground and connected to the AC mains through the Artificial Mains Network (AMN). Where the mains cable supplied by the manufacture was longer than 1 m, the excess was folded back and forth parallel to the cable at the centre so as to form a bundle no longer than 0.4 m.

The EUT was kept 0.4 m from any other earthed conducting surface. Both sides of AC line were checked to find out the maximum conducted emission levels according to the test procedure during the conducted emission test.

The frequency range from 150 kHz to 30 MHz was investigated.

The bandwidth of the test receiver was set at 9 kHz.

The test data of the worst case condition(s) was reported on the following page.

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Test Data

Line

		Limit	Over	
Freq	Level	Line	Limit	Remark
MHz	dBuV	dBuV	dB	
0.170	43.19	54.94	-11.75	Average
0.170	53.60	64.94	-11.34	QP
0.285	34.71	50.68	-15.97	Average
0.285	45.60	60.68	-15.08	QP
0.567	32.42	46.00	-13.58	Average
0.567	40.30	56.00	-15.70	QP
1.317	22.47	46.00	-23.53	Average
1.317	39.20	56.00	-16.80	QP
3.584	27.54	46.00	-18.46	Average
3.584	40.05	56.00	-15.95	QP
9.156	24.29	50.00	-25.71	Average
9.156	30.20	60.00	-29.80	QP
	MHz 0.170 0.170 0.285 0.285 0.567 0.567 1.317 1.317 3.584 3.584 9.156	MHz dBuV 0.170 43.19 0.170 53.60 0.285 34.71 0.285 45.60 0.567 32.42 0.567 40.30 1.317 22.47 1.317 39.20 3.584 27.54 3.584 40.05 9.156 24.29	MHz dBuV dBuV 0.170 43.19 54.94 0.170 53.60 64.94 0.285 34.71 50.68 0.285 45.60 60.68 0.567 32.42 46.00 0.567 40.30 56.00 1.317 22.47 46.00 1.317 39.20 56.00 3.584 27.54 46.00 3.584 40.05 56.00 9.156 24.29 50.00	MHz dBuV dBuV dBuV dBuV 0.170 43.19 54.94 -11.75 0.170 53.60 64.94 -11.34 0.285 34.71 50.68 -15.97 0.285 45.60 60.68 -15.08 0.567 32.42 46.00 -13.58 0.567 40.30 56.00 -15.70 1.317 22.47 46.00 -23.53 1.317 39.20 56.00 -16.80 3.584 27.54 46.00 -18.46 3.584 40.05 56.00 -15.95 9.156 24.29 50.00 -25.71

Neutral

al	Freq	Level	Limit Line	Over Limit	Remark
-	MHz	dBuV	dBuV	dB	
1	0.173	38.05	54.81	-16.76	Average
2	0.173	50.60	64.81	-14.21	QP
3	0.285	35.56	50.68	-15.12	Average
4	0.285	43.80	60.68	-16.88	QP
5	0.456	34.82	46.76	-11.94	Average
6	0.456	41.60	56.76	-15.16	QP
7	1.082	32.98	46.00	-13.02	Average
8	1.082	36.90	56.00	-19.10	QP
9	3.241	26.68	46.00	-19.32	Average
.0	3.241	32.60	56.00	-23.40	QP
1	13.127	13.12	50.00	-36.88	Average
2	13.127	25.69	60.00	-34.31	QP

5.2. Radiated Emission Test

Result : Pass

Test Procedure : ANSI C63.4:2009 Frequency Range : 30 to 13000 MHz

Test Site : 966 Chamber

Limits : FCC Part 15, Subpart B: Oct. 1, 2013

Test Setup

The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m away from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector from the spectrum, and all the final readings from the test receiver were measured with the Quasi-Peak detector.

The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz.

Notes:

- 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading-Preamp Factor.
- 2. Measurement Uncertainty: ±3.6 dB at a level of confidence of 95%.
- 3. For above 1GHz test, the peak level below the average limit, so no data show it.
- 4.Pre-scan all modes, and found the data transmitting mode which is the worst mode, so only the data of worst mode was show on the test report

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Test Data

Horizontal polarizations

		Preamp	Read	Cable	Antenna		Limit	Over	
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
=	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	3 3 3 1
1	49.40	31.38	41.23	0.75	9.05	19.65	40.00	-20.35	QP
2	235.64	30.94	41.59	1.61	12.50	24.76	46.00	-21.24	QP
3	289.96	30.93	42.35	1.87	13.48	26.77	46.00	-19.23	QP
4	445.16	30.61	41.57	2.62	17.50	31.08	46.00	-14.92	QP
5	497.54	30.59	41.22	2.85	18.66	32.14	46.00	-13.86	QP
6	548.95	30.87	40.58	3.03	19.49	32.23	46.00	-13.77	QP

Vertical polarizations

	Freq	Preamp Factor			lntenna Factor		Limit Line	Over Limit	Remark
*	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	()
1	49.40	31.38	48.26	0.75	9.05	26.68	40.00	-13.32	QP
2	76.56	31.33	42.49	0.85	7.83	19.84	40.00	-20.16	QP
3	235.64	30.94	41.25	1.61	12.50	24.42	46.00	-21.58	QP
4	445.16	30.61	38.99	2.62	17.50	28.50	46.00	-17.50	QP
5	548.95	30.87	40.82	3.03	19.49	32.47	46.00	-13.53	QP
6	652.74	30.82	40.12	3.58	21.47	34.35	46.00	-11.65	QP

6. PHOTOGRAPHS OF TEST SET-UP

6.1. Set-up for Conducted Emission Test



6.2. Set-up for Radiated Emission Test





7. PHOTOGRAPHS OF THE EUT









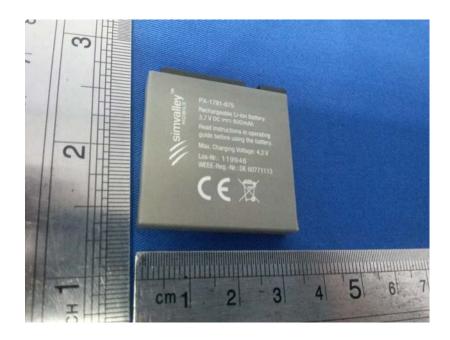












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