

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

#### **Mobile Internet Device**

MODEL No.: NABIJR-NV5A, nabi-Junior

FCC ID: ZYQ-NABIJR-NV5A

Trademark: nabi

**REPORT NO: ES121215082E1** 

ISSUE DATE: January 06, 2013

Prepared for

### KEEN HIGH HOLDING (HK) LIMITED Unit 13, 7/F Technology Park, 18 On Lai street Shatin New Territories HK

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TRF No: FCC 15.247/A Page 1 of 22 Report No: ES121215082E1



#### **VERIFICATION OF COMPLIANCE**

KEEN HIGH HOLDING (HK) LIMITED
Unit 13, 7/F Technology Park, 18 On Lai street Shatin New Territories
HK.
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Unit 13, 7/F Technology Park, 18 On Lai street Shatin New Territories
HK.
Mobile Internet Device
NABIJR-NV5A, nabi-Junior
(Note: all the models are the same, except their model number, we take
NABIJR-NV5A to test.)
ES121215082E1
November 24, 2012 to January 06, 2013

#### We hereby certify that:

The above equipment was tested by SHENZHEN EMTEK CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.247.

The test results of this report relate only to the tested sample identified in this report.

Date of Test:	November 24, 2012 to January 06, 2013
Prepared by:	A STORY LO JOSEPH EMTER
Reviewer :	Aaron Lai/Editor
Approve & Authorized Signer:	The state of the s
	Lisa Wang/Manager



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#### 1. General Information

#### 1.1 Product Description

A major technical descriptions of EUT is described as following:

A). Standards: IEEE802.11b/g/n

B). Operation Frequency: 802.11b/g/n: 2412-2462MHz;

C). Modulation: OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n,

DSSS with DBPSK/DQPSK/CCK for 802.11b

D). Number of Channel: 802.11b/g/n: 11Channels;

E). Support Data Rate: 1, 2, 5.5, 11, 6, 9, 12, 24, 36, 48, 54, 65, 72.2Mbps

F).Conducted Power: 19.91dBm(802.11b), 19.80dBm(802.11g), 19.85dBm(802.11n),

G) Antenna Gain: 1.35dBi

H). Antenna Type: PCB Antenna

I). Power Supply: AC 120V, 60Hz with AC Adapter and DC 3.7V from Li-ion Battery

J). Adapter: Model: KSAS000500100VUU

Input: AC 100-240V, 50/60Hz 0.18A

Output: DC 5.0V, 1.0A

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447		

#### Note:

- 1. This device is Mobile Internet Device included 802.11b, 802.11g, and 802.11n 2.4GHz transceiver function.
- 2. Test of channel was included the lowest middle and highest frequency in lowest data rate and to perform the test, then record on this report.

#### 1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: ZYQ-NABIJR-NV5A filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules. The composite system (receiver) is compliance with Subpart B is authorized under a DOC procedure.



#### 1.3 Test Methodology

All the test program has follow FCC new test procedure KDB558074, Both conducted and radiated testing were performed according to the procedures in ANSI C63.10 (2009). Radiated testing was performed at an antenna to EUT distance 3 meters.

#### 1.4 Special Accessories

Not available for this EUT intended for grant.

#### 1.5 Equipment Modifications

Not available for this EUT intended for grant.

#### 1.6 Test Facility

Site Description

EMC Lab. : Accredited by CNAS, 2010.10.29

The certificate is valid until 2013.10.28

The Laboratory has been assessed and proved to be in compliance

with CNAS/CL01: 2006(identical to ISO/IEC17025: 2005)

The Certificate Registration Number is L2291

Accredited by TUV Rheinland Shenzhen 2010.5.25

The Laboratory has been assessed according to the requirements

ISO/IEC 17025

Accredited by FCC, November 28, 2010

The Certificate Registration Number is 406365.

Accredited by Industry Canada, March 05, 2010 The Certificate Registration Number is 4480A-2.

Name of Firm : SHENZHEN EMTEK CO., LTD.
Site Location : Bldg 69, Majialong Industry Zone,

Nanshan District, Shenzhen, Guangdong, China



#### 2. System Test Configuration

#### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

#### 2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. the Tx frequency was fixed which was for the purpose of the measurements.

#### 2.3 Test Procedure

#### 2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. Emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4-2009.

#### 2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System





#### **Table 2-1 Equipment Used in Tested System**

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
1.	Mobile Internet Device	nabi	NABIJR-NV5A	ZYQ-NABIJR-NV5 A	N/A	EUT
2	AC Adaptor	Ktec	KSAS000500100 VUU	N/A	N/A	

#### Note:

(1) Unless otherwise denoted as EUT in 『Remark』 column, device(s) used in tested system is a support equipment.

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#### 3. Description of Test Modes

The Transmitter of EUT is a Mobile Internet Device and powered by host equipment, this is Digital Transmission system (DTS) and has modulation OFDM, DSSS, DBPSK, DQPSK, CCK, 16QAM, 64QAM. According exploratory test, EUT will have maximum output power in those data rate (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n: MCS0), so those data rate were used for all test.

The equipment enables high-speed access without wires to network assets. This adapter uses the IEEE 802.11 protocol to enable wireless communications between the host and Wireless rooter. For 802.11b/g/n:

For lowest channel: 2412MHz (Channel 1)
 For middle channel: 2437MHz (Channel 6)
 For highest channel: 2462MHz (Channel 11)

#### 4. Summary of Test Results

FCC Rules	FCC Rules Description Of Test	
§15.247(d), §15.209	Radiated Emission	Compliant

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#### 5. Radiated Emission Test

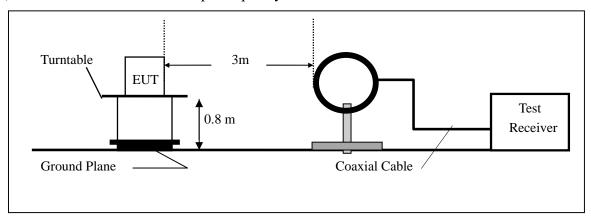
#### 5.1. Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measured were complete.

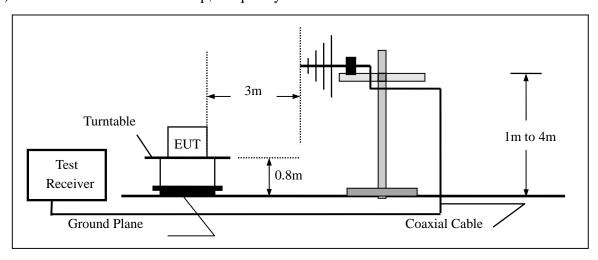
For emissions measurement set the bandwidth of the Spectrum's RBW at 1 MHz above 1 GHz and RBW 100 KHz below 1 GHz.

#### **5.2.** Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



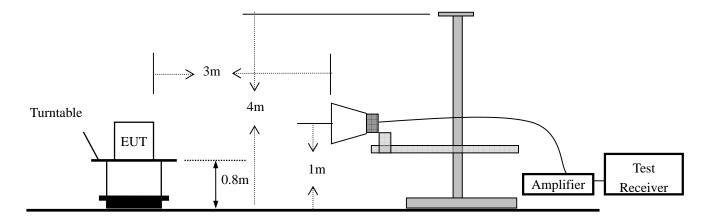
#### (B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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#### (C) Radiated Emission Test Set-Up, Frequency above 1000MHz



#### 5.3. Measurement Equipment Used

EQUIPMENT	MFR	MODEL	SERIAL	LAST CAL.	CAL DUE.
TYPE		NUMBER	NUMBER		
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	May 29, 2012	05/28/2013
Pre-Amplifier	HP	8447D	2944A07999	May 29, 2012	05/28/2013
Bilog Antenna	Schwarzbeck	VULB9163	142	May 29, 2012	05/28/2013
Loop Antenna	ARA	PLA-1030/B	1029	May 29, 2012	05/28/2013
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	May 29, 2012	05/28/2013
Horn Antenna	Schwarzbeck	BBHA 9120	D143	May 29, 2012	05/28/2013
Cable	Schwarzbeck	AK9513	ACRX1	May 29, 2012	05/28/2013
Cable	Rosenberger	N/A	FP2RX2	May 29, 2012	05/28/2013
Cable	Schwarzbeck	AK9513	CRPX1	May 29, 2012	05/28/2013
Cable	Schwarzbeck	AK9513	CRRX2	May 29, 2012	05/28/2013

#### 5.4. Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3



#### 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )

Remark: 1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of  $\xi$  15.205, and the emissions located in restricted bands also comply with 15.209 limit.



#### 5.5. Measurement Result

Operation Mode: TX Mode Test Date: December 20, 2012

Frequency Range: 9KHz~30MHz Temperature: 28°C Test Result: PASS Humidity: 65 % Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log (Specific distance/ test distance)( dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

Operation Mode: 802.11b TX Channel 1 Test Date: December 20, 2012

Frequency Range: 30~1000MHz Temperature: 28°C Test Result: PASS Humidity: 65 % Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)	
48.65	V	33.97	40.00	-6.03	PK
123.27	V	37.29	43.50	-6.21	PK
188.56	V	34.27	43.50	-9.23	PK
300.48	V	29.59	46.00	-16.41	PK
465.26	V	32.72	46.00	-13.28	PK
497.90	V	32.24	46.00	-13.76	PK
123.27	Н	37.87	43.50	-5.63	PK
187.00	Н	35.34	43.50	-8.16	PK
239.86	Н	36.69	46.00	-9.31	PK
266.28	Н	35.58	46.00	-10.42	PK
482.36	Н	39.83	46.00	-6.17	PK
698.43	Н	37.54	46.00	-8.46	PK

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.
- (4) EUT stood on the table position is the worst case result in the report.



Operation Mode: 802.11b TX Channel 6 Test Date: December 20, 2012

Frequency Range: 30~1000MHz Temperature: 28°C Test Result: PASS Humidity: 65 % Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)	
49.85	V	34.02	40.00	-5.98	PK
124.52	V	37.54	43.50	-5.96	PK
192.12	V	36.72	43.50	-6.78	PK
304.80	V	37.19	46.00	-8.81	PK
463.70	V	31.63	46.00	-14.37	PK
491.40	V	31.93	46.00	-14.07	PK
123.67	Н	40.23	43.50	-3.27	PK
188.25	Н	35.34	43.50	-8.16	PK
236.30	Н	36.85	46.00	-9.15	PK
261.96	Н	35.88	46.00	-10.12	PK
480.80	Н	41.89	46.00	-4.11	PK
691.93	Н	36.98	46.00	-9.02	PK

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.
- (4) EUT stood on the table position is the worst case result in the report.



Operation Mode: 802.11b TX Channel 11 Test Date: December 20, 2012

Frequency Range:  $30\sim1000 \text{MHz}$  Temperature:  $28^{\circ}\text{C}$  Test Result: PASS Humidity:  $65^{\circ}\text{M}$  Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)	
49.05	V	35.20	40.00	-4.80	PK
123.02	V	37.09	43.50	-6.41	PK
189.52	V	36.72	43.50	-6.78	PK
301.80	V	33.85	46.00	-12.15	PK
461.25	V	35.73	46.00	-10.27	PK
490.04	V	34.85	46.00	-11.15	PK
127.67	Н	40.23	43.50	-3.27	PK
189.75	Н	38.04	43.50	-5.46	PK
238.90	Н	36.79	46.00	-9.21	PK
264.96	Н	41.58	46.00	-4.42	PK
483.25	Н	41.19	46.00	-4.81	PK
693.29	Н	39.54	46.00	-6.46	PK

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.
- (4) EUT stood on the table position is the worst case result in the report.



Operation Mode: 802.11g TX Channel 1 Test Date: December 20, 2012

Frequency Range:  $30\sim1000 \text{MHz}$  Temperature:  $28^{\circ}\text{C}$  Test Result: PASS Humidity:  $65^{\circ}\text{M}$  Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)	
47.10	V	34.26	40.00	-5.74	PK
121.71	V	37.03	43.50	-6.47	PK
173.01	V	32.04	43.50	-11.46	PK
188.56	V	33.81	43.50	-9.69	PK
465.26	V	34.50	46.00	-11.50	PK
497.90	V	31.95	46.00	-14.05	PK
121.71	Н	37.81	43.50	-5.69	PK
182.34	Н	36.50	43.50	-7.00	PK
236.75	Н	34.74	46.00	-11.26	PK
266.28	Н	35.62	46.00	-10.38	PK
305.14	Н	32.89	46.00	-13.11	PK
482.36	Н	39.75	46.00	-6.25	PK

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.
- (4) EUT stood on the table position is the worst case result in the report.



Operation Mode: 802.11g TX Channel 6 Test Date: December 20, 2012

Frequency Range: 30~1000MHz Temperature: 28°C Test Result: PASS Humidity: 65% Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)	
48.30	V	34.31	40.00	-5.69	PK
122.96	V	37.28	43.50	-6.22	PK
176.57	V	34.49	43.50	-9.01	PK
192.88	V	33.30	43.50	-10.20	PK
463.70	V	33.41	46.00	-12.59	PK
491.40	V	31.64	46.00	-14.36	PK
122.11	Н	40.17	43.50	-3.33	PK
183.59	Н	36.50	43.50	-7.00	PK
233.19	Н	34.90	46.00	-11.10	PK
261.96	Н	35.92	46.00	-10.08	PK
303.58	Н	34.95	46.00	-11.05	PK
475.86	Н	39.19	46.00	-6.81	PK

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.
- (4) EUT stood on the table position is the worst case result in the report.



Operation Mode: 802.11g TX Channel 11 Test Date: December 20, 2012

Frequency Range:  $30\sim1000 \text{MHz}$  Temperature:  $28^{\circ}\text{C}$  Test Result: PASS Humidity:  $65^{\circ}\text{M}$  Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)	
47.50	V	35.49	40.00	-4.51	PK
121.46	V	36.83	43.50	-6.67	PK
173.97	V	34.49	43.50	-9.01	PK
189.88	V	38.07	43.50	-5.43	PK
461.25	V	37.51	46.00	-8.49	PK
490.04	V	34.56	46.00	-11.44	PK
126.11	Н	40.17	43.50	-3.33	PK
185.09	Н	39.20	43.50	-4.30	PK
235.79	Н	34.84	46.00	-11.16	PK
264.96	Н	41.62	46.00	-4.38	PK
306.03	Н	37.31	46.00	-8.69	PK
477.22	Н	41.75	46.00	-4.25	PK

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.
- (4) EUT stood on the table position is the worst case result in the report.



Operation Mode: 802.11n TX Channel 1 Test Date: December 20, 2012

Frequency Range:  $30\sim1000 \text{MHz}$  Temperature:  $28^{\circ}\text{C}$  Test Result: PASS Humidity:  $65^{\circ}\text{M}$  Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)	
48.65	V	34.37	40.00	-5.63	PK
123.27	V	36.49	43.50	-7.01	PK
180.79	V	32.35	43.50	-11.15	PK
465.26	V	33.39	46.00	-12.61	PK
497.90	V	32.07	46.00	-13.93	PK
864.76	V	35.09	46.00	-10.91	PK
118.61	Н	39.18	43.50	-4.32	PK
182.34	Н	36.84	43.50	-6.66	PK
266.28	Н	35.03	46.00	-10.97	PK
292.71	Н	33.42	46.00	-12.58	PK
482.36	Н	39.29	46.00	-6.71	PK
830.56	Н	36.36	46.00	-9.64	PK

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.
- (4) EUT stood on the table position is the worst case result in the report.



Operation Mode: 802.11n TX Channel 6 Test Date: December 20, 2012

Frequency Range:  $30\sim1000 \text{MHz}$  Temperature:  $28^{\circ}\text{C}$  Test Result: PASS Humidity:  $65^{\circ}\text{M}$  Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)	
49.85	V	34.42	40.00	-5.58	PK
124.52	V	36.74	43.50	-6.76	PK
184.35	V	34.80	43.50	-8.70	PK
469.58	V	38.97	46.00	-7.03	PK
496.34	V	30.98	46.00	-15.02	PK
858.26	V	34.78	46.00	-11.22	PK
119.01	Н	38.84	43.50	-4.66	PK
183.59	Н	36.84	43.50	-6.66	PK
262.72	Н	35.19	46.00	-10.81	PK
288.39	Н	33.72	46.00	-12.28	PK
480.80	Н	41.35	46.00	-4.65	PK
824.06	Н	35.80	46.00	-10.20	PK

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.
- (4) EUT stood on the table position is the worst case result in the report.



Operation Mode: 802.11n TX Channel 11 Test Date: December 20, 2012

Frequency Range:  $30\sim1000 \text{MHz}$  Temperature:  $28^{\circ}\text{C}$  Test Result: PASS Humidity:  $65^{\circ}\text{M}$  Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)	
53.32	V	33.65	40.00	-6.35	PK
123.27	V	37.99	43.50	-5.51	PK
188.56	V	33.03	43.50	-10.47	PK
465.26	V	32.21	46.00	-13.79	PK
497.90	V	31.72	46.00	-14.28	PK
931.60	V	35.18	46.00	-10.82	PK
54.87	Н	34.48	40.00	-5.52	PK
121.71	Н	37.50	43.50	-6.00	PK
185.45	Н	35.51	43.50	-7.99	PK
266.28	Н	34.32	46.00	-11.68	PK
305.14	Н	35.07	46.00	-10.93	PK
482.36	Н	39.82	46.00	-6.18	PK

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.
- (4) EUT stood on the table position is the worst case result in the report.



#### 5.6. Radiated Measurement Photos

