

**R&TTE (1999/5/EC) Directive****EN 301 489-1 V1.9.2: 2011****EN 301 489-3 V1.4.1: 2002****EN 301 489-17 V2.1.1: 2009****&****Australian /New Zealand Standard****AS/NZS CISPR 22:2009+A1:2010****TEST REPORT***FOR*

**Product Name:** TomTom GPS watch

**Brand Name:** TomTom

**Model Name:** 8RS00

**Based on SGS EMC Test Report No.:** EC/2013/20003

**Issue Date:** May 21, 2013

**Prepared for:** TomTom International BV  
Rembrandtplein 35 1017 CT Amsterdam The Netherlands

**Prepared by:** SGS Taiwan Ltd.  
No. 134, Wu Kung Rd., Wuku Industrial Zone,  
Taipei County, Taiwan.

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## VERIFICATION OF COMPLIANCE

**Applicant:** TomTom International BV  
Rembrandtplein 35 1017 CT Amsterdam The Netherlands

**Manufacturer:** Tech-Giant(Shanghai)Computer Co., Ltd  
C#,No.1, South Rongteng Road , Songjiang Export Processing Zone,  
Shanghai, China

**Equipment Under Test:** TomTom GPS watch

**Brand Name:** TomTom

**Model No.:** 8RS00

**Added Model(s):** N/A

**File Number:** EC/2013/20003-01

**Date of EUT Received:** Apr. 22, 2013

**Date of test:** Apr. 22 ~ May 13, 2013

APPLICABLE STANDARDS		
EN301 489 -1 v1.9.2: 2011		EN301 489 -3 v1.4.1: 2002
		EN301 489 -17 v2.1.1: 2009
EMI:	EN 55022: 2010	EN 61000-3-2:2006+A1 :2009+A2 :2009
	EN 61000-3-3:2008	
EMS:	EN61000-4-2:2009	EN61000-4-5:2006
	EN 61000-4-3: 2010	EN61000-4-6:2009
	EN61000-4-4:2004+A1:2010	EN61000-4-11:2004
	ISO 7637-2 : 2004	AS/NZS CISPR 22 : 2009+A1:2010 Class B

In the configuration tested, the EUT complied with the standards specified above.

**Remarks:**

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Taiwan Ltd. Electronics & Communication Laboratory or testing done by in connection with distribution or use of the product described in this report must be approved by SGS Taiwan Ltd. Electronics & Communication Laboratory in writing.

**Test By:***Jeffrey Chou***Date**

May 21, 2013

**Jeffrey Chou(Engineer)****Approved By:***Victor Wen***Date**

May 21, 2013

**Victor Wen(Assistant Manager)**

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## Version

Version No.	Description	Date
00	Original	Apr. 11, 2013
01	Add cadence, add Data Link mode for RE, RS, ESD tests.	May 21, 2013

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# 1. General Description

## 1.1 General Description of EUT

Product	TomTom GPS watch
Model Name	8RS00
Added Model(s)	N/A
Brand Name	TomTom
Model Difference	N/A
Power Supply	DC 5V from battery
Battery	Model NO.: SP332230AB; Supplier: TIANJIN LISHEN BATTERY JOINT-STOCK CO., LTD
Dock	Product Name: TomTom GPS Watch Desk Dock Charger; Model name: 4UJ0; Brand Name: TomTom
BLE Speed & Cadence 2 in 1 bike sensor	Model No.: AD262; Supplier: iDT Technology Limited.; Brand Name: TomTom
Highest Frequency	2480MHz

## 1.2 General Description of Applied Standards

The EUT According to the Specifications, it must comply with the requirements of the following standards:

Part 1– Electromagnetic compatibility and Radio spectrum Matters (ERM) ;

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services

Part 3- Specific conditions for Short-Range devices(SRD) operating on frequencies between 9KHz and 40GHz

Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

## 1.3 Description of Test Modes:

Modes/Function:

Test Mode1: BT Link Mode

Test Mode 2: BT Standby Mode

Test Mode 3: GPS Mode

Test Mode 4: Charge Mode

Test Mode 5: Data Link Mode

Test Mode 6: BT Link Mode for added test (Cadence)

Worst case: Test Mode 4 (for Conducted Emission)

Test Mode 5 (for Radiated Emission)

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#### 1.4 Test Facility:

Open area test site :

SGS Taiwan LTD. Electronics & Communication Laboratory

No. 29, Pau-Tou-Tsuo Valley, Chia-Pau Tsuen, Linkou District, New Taipei City , Taiwan 244

Other test site:

SGS Taiwan LTD. Electronics & Communication Laboratory

No.134,Wu Kung Road, New Taipei Industrial Park,Wuku District, New Taipei City, Taiwan 24803

SGS Taiwan LTD. Electronics & Communication Laboratory

No.2, Keji 1st Rd., Guishan Township, Taoyuan County, Taiwan 333

#### 1.5 Modification List:

No modification by SGS Taiwan Electronics & Communication Laboratory.

#### 1.6 Test Condition:

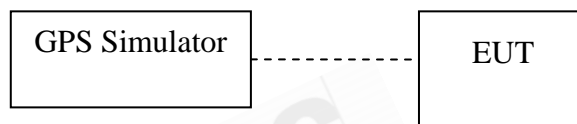
Refer to EN 301 489-1, Section 4 and EN 301 489-17, Section 4 for the details.

#### 1.7 Configuration of Tested System

BT Link Mode



GPS Mode



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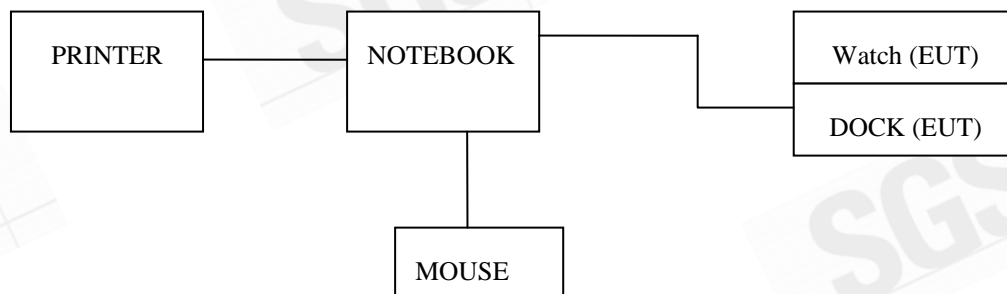
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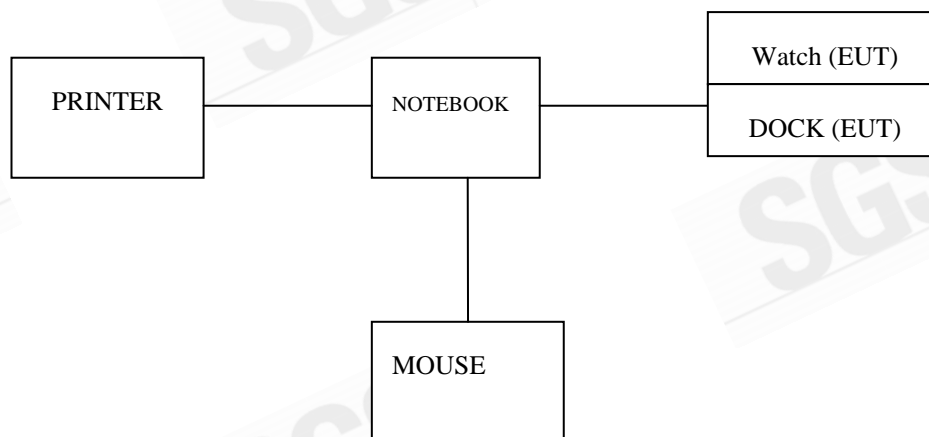
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## Charge Mode



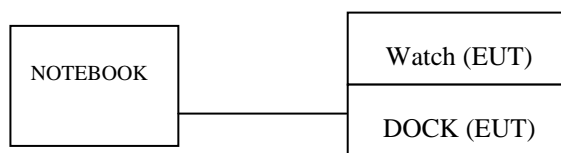
## EMI

## DATA Link Mode



## EMS

## DATA Link Mode



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BT Link Mode for cadence



Table 1-1 Equipment Used in Tested System

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
NOTEBOOK	Lenovo	L412	0585AD9
USB Mouse	Lenovo	MOEUUO	44Pd564
Printer	HP	C8952D	CN34L1816T
MULTIPARAMMETER SIMULATOR	FLUKE	MPS450	N/A
GPS Simulator	ADIVIC	MP9100	N/A
Fabric chest Belt with BLE (EMS)NOTEBOOK	IDT Technology Ltd., DELL	SZ999 I7-3520M	N/A COVZYW1
Mouse	Lenovo	LXB MO28UOA USB	45J48881
Printer	HP	VCVRS-1004	N/A

Table 1-2 Cable List

Cable Type	Length	Shield/Non-shield
USB Cable	1.5 m	Shielding

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## 2. Radio Disturbance

EN 301 489-3 V1.4.1: 2002

EN 301 489-17 V2.1.1: 2009

### 2.1 Test Configuration:

Refer to EN 301 489-1, Section 8.1.

### 2.2 Special Conditions:

No special conditions shall apply to UE in the scope of the present document.

### 2.3 Summary of Test Results

Test Items	Reference section	Result
Enclosure of ancillary equipment measured on a stand alone basis, EN55022, Class B	EN 301 489-1 Section 8.2	PASS
DC mains power input/output ports EN55022, Class B	EN 301 489-1 Section 8.3	N/A
AC mains power input/output ports EN55022, Class B	EN 301 489-1 Section 8.4	PASS
Harmonic current emission	EN 301 489-1 Section 8.5	N/A
Voltage fluctuations and flicker	EN 301 489-1 Section 8.6	N/A
Telecommunication Port	EN 301 489-1 Section 8.7	N/A

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## 2.4 Enclosure of ancillary equipment measured on a stand alone basis. Refer to EN 301 489-1 Section 8.2

### 2.4.1 Test Method:

Standard	Date	Description
EN55022	2010	Information technology equipment – Radio disturbance characteristics - Limits and methods of measurement

### 2.4.2 Limit:

Frequency range MHz	Limits dBuV/m (10m)
	Quasi-peak
30 to 230	30
230 to 1000	37

Frequency range GHz	Limits dBuV/m 3m)	
	Average	Peak
1 to 3	50	70
3 to 6	54	74

If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz.

If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz.

If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz.

If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 6 GHz, whichever is less.

The highest internal source of an EUT is higher than 1GHz.

### 2.4.3 Test Procedure:

1. EUT was placed on an 0.8m wooden table.
2. Set up EUT with support units and turn on the power of all equipment.
3. Link the EUT with Telecommunication tester, setup the test mode. The transmitter operating at continuously mode and max output rated power.
4. The receive antenna is placed at 10m distance from the EUT and search height from 1-4m.
5. The turntable was slowly rotated to locate the direction of maximum emission. Once maximum direction is determined, the search antenna was raised and lowered in both vertical and horizontal polarizations.

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#### 2.4.4 Test Instruments:

Below 1G

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
Site NSA	N/A	OATS	N/A	Nov. 12, 2012	Nov. 11, 2013
EMI Test Receiver	ROHDE&SCHWARZ	ESCI 3	100335	Jan. 31, 2013	Jan. 30, 2014
RF-Amplifier	HP	8447D	1937A02834	Nov. 26, 2012	Nov. 25, 2013
Broadband Antenna	SCHWAZBECK	VULB9160	9160-3224	Apr. 26, 2012	Apr. 25, 2013
Coaxial Cables	N/A	OS RE Cable	N/A	Nov. 26, 2012	Nov. 25, 2013
Antenna Master	HD GmbH	MA 240	240/515	N/A	N/A
Turn Table	HD GmbH	DT420	420/542	N/A	N/A
Controller	HD GmbH	HD 100	100/589	N/A	N/A
Software	Farad	EZ-EMC-VER 2A1.1(USB)	N/A	N/A	N/A

For added test

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
Site NSA	N/A	OATS	N/A	Nov. 12, 2012	Nov. 11, 2013
EMI Test Receiver	ROHDE&SCHWARZ	ESCI 3	100335	Jan. 31, 2013	Jan. 30, 2014
RF-Amplifier	HP	8447D	1937A02834	Nov. 26, 2012	Nov. 25, 2013
Broadband Antenna	SCHWAZBECK	VULB9168	9168-297	Jan. 14, 2013	Jan. 13, 2014
Coaxial Cables	N/A	OS RE Cable	N/A	Nov. 26, 2012	Nov. 25, 2013
Antenna Master	HD GmbH	MA 240	240/515	N/A	N/A
Turn Table	HD GmbH	DT420	420/542	N/A	N/A
Controller	HD GmbH	HD 100	100/589	N/A	N/A
Software	Farad	EZ-EMC-VER 2A1.1(USB)	N/A	N/A	N/A

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**Above 1G**

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
Site NSA	Chamost	966II Chamber	N/A	Dec. 30, 2012	Dec. 29, 2013
Site VSWR	Chamost	966II Chamber	N/A	Dec. 30, 2012	Dec. 29, 2013
EMI Test Receiver	ROHDE&SCHW ARZ	ESCI 7	100760	May 25, 2012	May 24, 2013
Spectrum Analyzer	ROHDE&SCHW ARZ	FSP 40	100034	May 24, 2012	May 23, 2013
RF-Amplifier (0.1-1300MHz)	HP	8447D	1937A02774	Nov. 26, 2012	Nov. 25, 2013
RF-Amplifier (1-26.5GHz)	HP	8449B	3008A00578	Nov. 26, 2012	Nov. 25, 2013
RF-Amplifier (26-40GHz)	EM Electronics Corp.	EM26400	N/A	Dec. 28, 2011	Dec. 27, 2013
Coaxial Cables (For 9kHz~3GHz)	HUBER SUHNER	SUCCOFLEX 104PEA	N/A	Nov. 26, 2012	Nov. 25, 2013
Coaxial Cables (For 9kHz~26.5GHz)	HUBER SUHNER	SUCCOFLEX 104PEA	N/A	Nov. 26, 2012	Nov. 25, 2013
Re Cables (966II) (For 1~40GHz)	HUBER SUHNER	SUCCOFLEX 102	22962/2	Nov. 26, 2012	Nov. 25, 2013
Re Cables (966II) (For 1~40GHz)	HUBER SUHNER	SUCCOFLEX 102	23051/2	Nov. 26, 2012	Nov. 25, 2013
Antenna Master	MF.	N/A	N/A	N/A	N/A
Turn Table	MF.	N/A	N/A	N/A	N/A
Controller	MF.	3000	MF780208153	N/A	N/A
Broadband Antenna	SCHWAZBECK	VULB9168	VULB9168-2 98	Nov. 01, 2012	Oct. 31, 2013
Horn Antenna (For 1~18G )	ETS-Lindgren	3117	00135200	Oct. 05, 2012	Oct. 04, 2013
Horn Antenna (For 18~40G )	SCHWAZBECK	BBHA 9170	BBHA917018 5	Jul. 11, 2011	Jul. 10, 2013
Software	Farad	EZ-EMC-VER 2A1.1(USB)	N/A	N/A	N/A

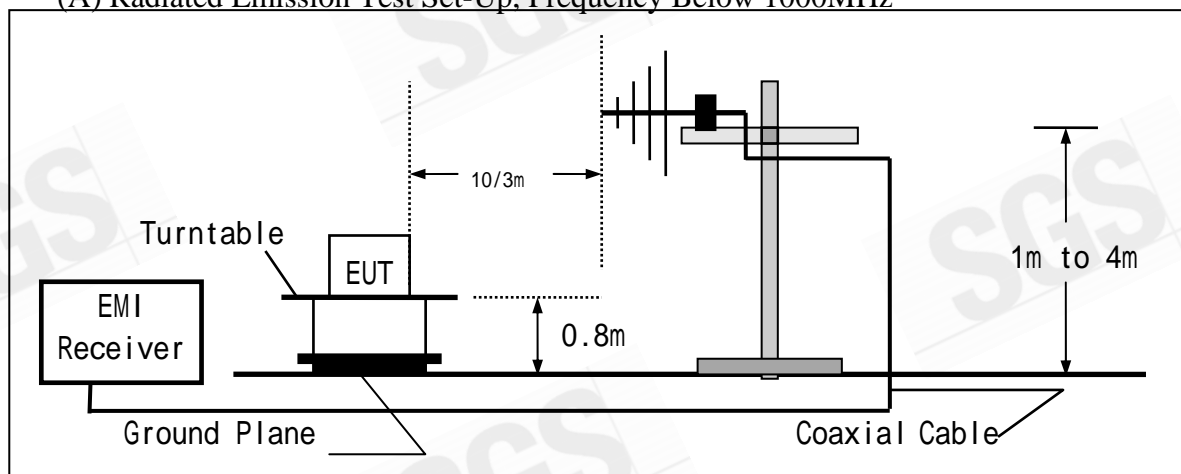
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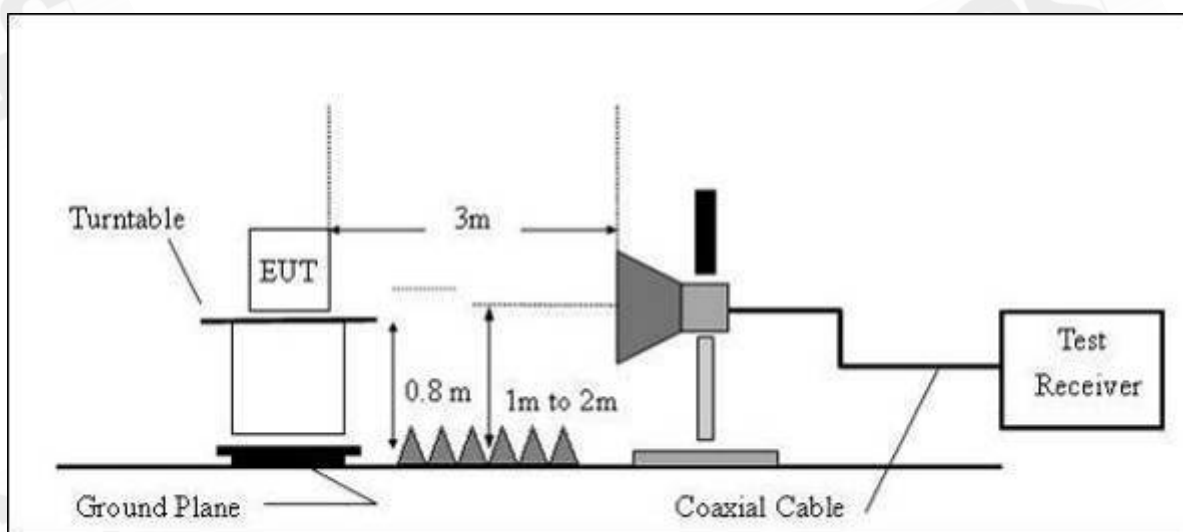
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## 2.4.5 Test SET-UP (Block Diagram of Configuration)

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



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



## 2.4.6 Uncertainty of Radiated Emission

Expanded uncertainty (k=2) of radiated emission measurement is 3.24dB.(30-1000MHz)

Expanded uncertainty (k=2) of radiated emission measurement is 5.34dB.(1-18GHz)

## 2.4.7 Measurement level and Factor calculate method

Correct Factor = Antenna Factor + Cable loss- Amplifier Gain

Measurement Level = Reading Level + Correct Factor

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### 2.4.7.1 Radiated Emission Measurement Data Below 1G

Operation Mode	Test Mode 1	Test Date	Mar. 13, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Ver.



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Address: 台北縣五股工業區五工路134號  
Tel: 02-2299-3279 Fax: 02-2298-2698

Site : 10M Open Site  
Limit: EN55022 Class B 10M Radiation

Polarization: **Vertical** Temperature: 27 °C  
Power: From Battery Humidity: 66 %  
Distance:  
Mode:

Note: BT Link

#### Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		68.4420	25.44	-15.03	10.41	30.00	-19.59	QP	
2		81.3730	29.20	-16.93	12.27	30.00	-17.73	QP	
3		116.0900	26.52	-13.66	12.86	30.00	-17.14	QP	
4	*	122.0500	30.13	-13.09	17.04	30.00	-12.96	QP	
5		129.3340	25.20	-12.37	12.83	30.00	-17.17	QP	
6		180.6100	25.05	-12.60	12.45	30.00	-17.55	QP	

\*:Maximum data x:Over limit !:over margin

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Operation Mode	Test Mode 1	Test Date	Mar. 13, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Hor.



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Address: 台北縣五股工業區五工路134號  
Tel: 02-2299-3279 Fax: 02-2298-2698

Site : 10M Open Site  
Limit: EN55022 Class B 10M Radiation

Polarization: **Horizontal** Temperature: 27 °C  
Power: From Battery Humidity: 66 %  
Distance:  
Mode:

Note: BT Link

## Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		37.6800	24.86	-14.06	10.80	30.00	-19.20	QP	
2	*	63.0040	26.42	-14.28	12.14	30.00	-17.86	QP	
3		131.9700	22.20	-12.21	9.99	30.00	-20.01	QP	
4		149.1300	23.09	-11.75	11.34	30.00	-18.66	QP	
5		196.2800	22.97	-14.42	8.55	30.00	-21.45	QP	
6		227.6910	23.88	-13.14	10.74	30.00	-19.26	QP	

\*:Maximum data x:Over limit !:over margin

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Operation Mode	Test Mode 3	Test Date	Mar. 13, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Ver.



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Address: 台北縣五股工業區五工路134號  
Tel: 02-2299-3279 Fax: 02-2298-2698

Site : 10M Open Site  
Limit: EN55022 Class B 10M Radiation

Polarization: **Vertical**  
Power: From Battery  
Distance:  
Mode:

Temperature: 27 °C  
Humidity: 66 %

Note: GPS

## Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		68.4300	27.16	-15.03	12.13	30.00	-17.87	QP	
2		84.3300	26.34	-17.21	9.13	30.00	-20.87	QP	
3	*	128.1700	26.11	-12.48	13.63	30.00	-16.37	QP	
4		185.4300	23.84	-13.34	10.50	30.00	-19.50	QP	
5		211.3900	23.57	-14.34	9.23	30.00	-20.77	QP	
6		300.0040	27.76	-9.65	18.11	37.00	-18.89	QP	

\*:Maximum data x:Over limit !:over margin

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Operation Mode	Test Mode 3	Test Date	Mar. 13, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Hor.

Site : 10M Open Site  
Limit: EN55022 Class B 10M Radiation

Polarization: **Horizontal** Temperature: 27 °C  
Power: From Battery Humidity: 66 %  
Distance:  
Mode:

Note: GPS

## Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		37.9000	25.00	-14.02	10.98	30.00	-19.02	QP	
2	*	62.9600	26.44	-14.27	12.17	30.00	-17.83	QP	
3		132.3820	22.02	-12.19	9.83	30.00	-20.17	QP	
4		148.9000	23.28	-11.75	11.53	30.00	-18.47	QP	
5		196.4000	23.12	-14.43	8.69	30.00	-21.31	QP	
6		227.4700	24.06	-13.16	10.90	30.00	-19.10	QP	

\*: Maximum data x: Over limit !: over margin

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Operation Mode	Test Mode 4	Test Date	Mar. 13, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Ver.



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Address: 台北縣五股工業區五工路134號  
Tel: 02-2299-3279 Fax: 02-2298-2698

Site : 10M Open Site  
Limit: EN55022 Class B 10M Radiation

Polarization: **Vertical**  
Power: From System  
Distance:  
Mode:

Temperature: 27 °C  
Humidity: 66 %

Note: Charge (AC 230V / 50Hz)

## Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	62.7800	34.76	-14.24	20.52	30.00	-9.48	QP	
2		133.9200	26.28	-12.11	14.17	30.00	-15.83	QP	
3		182.0400	28.96	-12.82	16.14	30.00	-13.86	QP	
4		225.3120	28.36	-13.43	14.93	30.00	-15.07	QP	
5		438.4800	27.16	-6.23	20.93	37.00	-16.07	QP	
6		449.5560	25.76	-5.82	19.94	37.00	-17.06	QP	
7		497.8600	26.39	-5.08	21.31	37.00	-15.69	QP	

\*:Maximum data x:Over limit !:over margin

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Operation Mode	Test Mode 4	Test Date	Mar. 13, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Hor.

Site : 10M Open Site  
Limit: EN55022 Class B 10M Radiation

Polarization: **Horizontal** Temperature: 27 °C  
Power: From System Humidity: 66 %  
Distance:  
Mode:

Note: Charge (AC 230V / 50Hz)

### Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		62.2000	29.52	-14.17	15.35	30.00	-14.65	QP	
2		127.6000	25.37	-12.54	12.83	30.00	-17.17	QP	
3		147.7200	23.84	-11.76	12.08	30.00	-17.92	QP	
4		214.7800	31.16	-14.25	16.91	30.00	-13.09	QP	
5		232.9000	30.00	-12.67	17.33	37.00	-19.67	QP	
6		369.1280	29.84	-8.46	21.38	37.00	-15.62	QP	
7	*	438.4700	30.70	-6.23	24.47	37.00	-12.53	QP	
8		450.4300	27.53	-5.80	21.73	37.00	-15.27	QP	

\*:Maximum data x:Over limit !:over margin

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File : EC-2013-20003>Data : #6

Page: 1

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Operation Mode	Test Mode 5	Test Date	May 08, 2013
Temperature	30	Test By	Jeffrey Chou
Humidity	61 %	Pol	Ver.



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Address: 台北縣五股工業區五工路134號  
Tel: 02-2299-3279 Fax: 02-2298-2698

Site : 10M Open Site  
Limit: EN55022 Class B 10M Radiation  
EUT: Watch (Pressure Sensor)

Polarization: **Vertical**  
Power: From System  
Distance:  
Mode: DATA Link

Temperature: 30 °C  
Humidity: 61 %

Note: AC 230V/50Hz

## Radiated Emission

File : EC-2013-20003-01

Data : #4

Date: 2013/5/8

Time: 下午 03:20:25



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		62.2000	30.46	-12.89	17.57	30.00	-12.43	QP	
2		74.6800	30.68	-15.10	15.58	30.00	-14.42	QP	
3		85.2000	32.76	-17.15	15.61	30.00	-14.39	QP	
4	*	113.2000	35.70	-14.68	21.02	30.00	-8.98	QP	
5		125.0400	32.12	-13.69	18.43	30.00	-11.57	QP	
6		187.5000	31.65	-14.06	17.59	30.00	-12.41	QP	
7		200.4000	32.36	-14.85	17.51	30.00	-12.49	QP	
8		240.0040	31.88	-13.07	18.81	37.00	-18.19	QP	
9		480.3000	27.79	-6.05	21.74	37.00	-15.26	QP	

\*: Maximum data x: Over limit !: over margin

● Reference Only

File : EC-2013-20003-01\Data : #4

Page: 1

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Operation Mode	Test Mode 5	Test Date	May 08, 2013
Temperature	30	Test By	Jeffrey Chou
Humidity	61 %	Pol	Hor.



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Address: 台北縣五股工業區五工路134號  
Tel: 02-2299-3279 Fax: 02-2298-2698

Site : 10M Open Site  
Limit: EN55022 Class B 10M Radiation  
EUT: Watch (Pressure Sensor)

Polarization: **Horizontal** Temperature: 30 °C  
Power: From System Humidity: 61 %  
Distance:  
Mode: DATA Link

Note: AC 230V/50Hz

## Radiated Emission

File : EC-2013-20003-01

Data : #3

Date: 2013/5/8

Time: 下午 02:34:38



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		44.2400	26.46	-12.57	13.89	30.00	-16.11	QP	
2	*	62.4900	28.94	-12.93	16.01	30.00	-13.99	QP	
3		75.4200	27.26	-15.26	12.00	30.00	-18.00	QP	
4		119.2600	27.58	-14.15	13.43	30.00	-16.57	QP	
5		140.4000	24.27	-12.40	11.87	30.00	-18.13	QP	
6		186.2800	25.11	-13.95	11.16	30.00	-18.84	QP	
7		240.0005	32.95	-13.07	19.88	37.00	-17.12	QP	
8		360.0070	26.87	-9.56	17.31	37.00	-19.69	QP	
9		436.3160	28.28	-6.91	21.37	37.00	-15.63	QP	

\*: Maximum data x: Over limit !: over margin

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File : EC-2013-20003-01 Data : #3

Page: 1

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Operation Mode	Test Mode 6	Test Date	May 08, 2013
Temperature	30	Test By	Jeffrey Chou
Humidity	61 %	Pol	Ver.



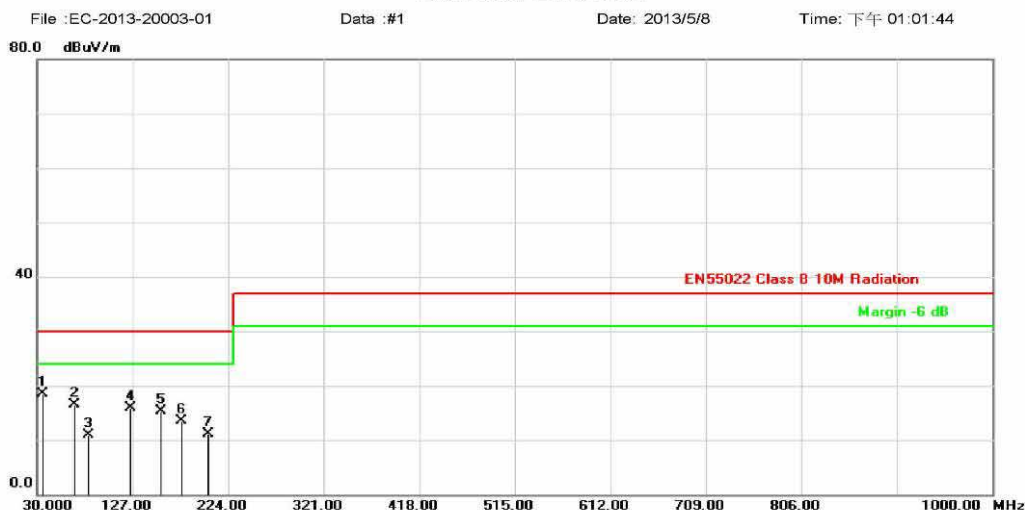
臺灣檢驗科技股份有限公司-電子暨通訊實驗室  
Address: 台北縣五股工業區五工路134號  
Tel: 02-2299-3279 Fax: 02-2298-2698

Site : 10M Open Site  
Limit: EN55022 Class B 10M Radiation  
EUT: Watch (Pressure Sensor)

Polarization: **Vertical** Temperature: 30 °C  
Power: From Battery Humidity: 61 %  
Distance:  
Mode: BT Link

Note:

## Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	35.6800	32.05	-13.64	18.41	30.00	-11.59	QP	
2		67.9800	30.22	-13.75	16.47	30.00	-13.53	QP	
3		82.5400	27.56	-16.71	10.85	30.00	-19.15	QP	
4		124.6400	29.56	-13.72	15.84	30.00	-14.16	QP	
5		156.0400	27.16	-11.84	15.32	30.00	-14.68	QP	
6		177.1200	26.50	-13.01	13.49	30.00	-16.51	QP	
7		204.1600	25.99	-14.87	11.12	30.00	-18.88	QP	

\*: Maximum data x: Over limit !: over margin

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File : EC-2013-20003-01\Data : #1

Page: 1

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Operation Mode	Test Mode 6	Test Date	May 08, 2013
Temperature	30	Test By	Jeffrey Chou
Humidity	61 %	Pol	Hor.



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Tel: 02-2299-3279 Fax: 02-2298-2698

Site : 10M Open Site  
Limit: EN55022 Class B 10M Radiation  
EUT: Watch (Pressure Sensor)

Polarization: **Horizontal** Temperature: 30 °C  
Power: From Battery Humidity: 61 %  
Distance:  
Mode: BT Link

Note:

## Radiated Emission

File : EC-2013-20003-01

Data : #2

Date: 2013/5/8

Time: 下午 01:48:37



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	42.8000	27.26	-12.73	14.53	30.00	-15.47	QP	
2		53.8200	25.18	-12.36	12.82	30.00	-17.18	QP	
3		67.5800	26.22	-13.68	12.54	30.00	-17.46	QP	
4		79.8600	25.63	-16.25	9.38	30.00	-20.62	QP	
5		126.1200	25.35	-13.60	11.75	30.00	-18.25	QP	
6		141.6000	24.70	-12.35	12.35	30.00	-17.65	QP	
7		163.9200	23.91	-11.97	11.94	30.00	-18.06	QP	

\*: Maximum data x: Over limit !: over margin

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File : EC-2013-20003-01>Data : #2

Page: 1

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## Above 1G

Operation Mode	Test Mode 1	Test Date	Mar. 12, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Ver.



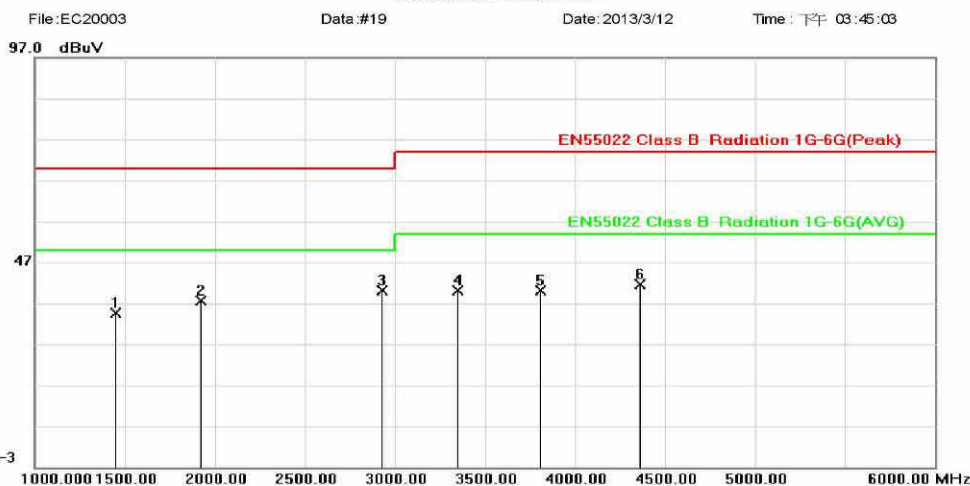
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Address : 台北縣五股工業區五工路 134 號  
Tel: 02-2299-3279 Fax: 02-2298-2698

Site : 966-2 Chamber  
Limit: EN55022 Class B Radiation 1G-6G(Peak)

Polarization: **Vertical** Temperature: 26 °C  
Power: From Battery Humidity: 60%  
Distance:  
Mode:

Note: BT Link

## Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1450.000	58.05	-23.50	34.55	70.00	-35.45	peak	
2		1920.000	57.74	-20.23	37.51	70.00	-32.49	peak	
3	*	2930.000	57.40	-17.32	40.08	70.00	-29.92	peak	
4		3350.000	56.84	-16.81	40.03	74.00	-33.97	peak	
5		3810.000	56.17	-15.92	40.25	74.00	-33.75	peak	
6		4360.000	56.44	-14.80	41.64	74.00	-32.36	peak	

\*: Maximum data x: Over limit !: over margin

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File: EC20003\Data: #19

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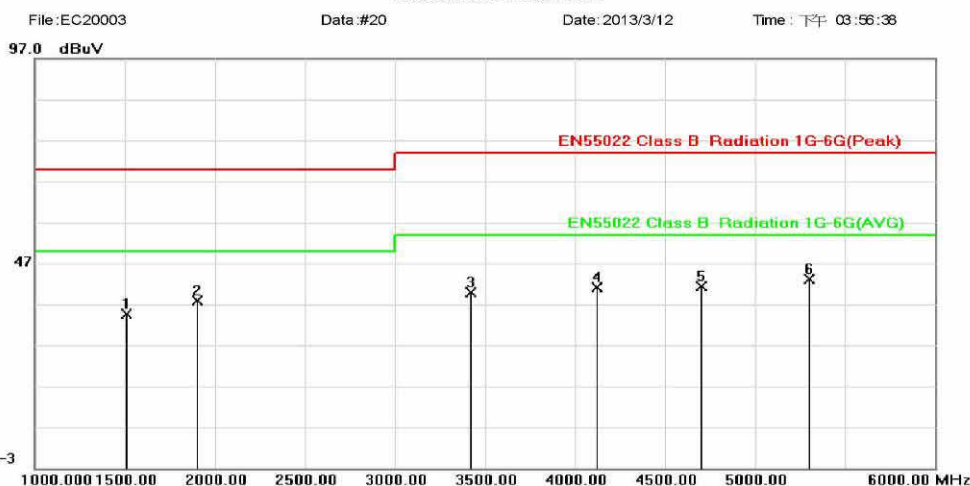
Operation Mode	Test Mode 1	Test Date	Mar. 12, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Hor.

Site : 966-2 Chamber  
 Limit: EN55022 Class B Radiation 1G-6G(Peak)

Polarization: **Horizontal** Temperature: 26 °C  
 Power: From Battery Humidity: 60%  
 Distance:  
 Mode:

Note: BT Link

### Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1510.000	57.92	-23.33	34.59	70.00	-35.41	peak	
2		1900.000	58.27	-20.39	37.88	70.00	-32.12	peak	
3		3420.000	56.72	-16.74	39.98	74.00	-34.02	peak	
4		4120.000	56.38	-15.25	41.13	74.00	-32.87	peak	
5		4700.000	55.43	-14.15	41.28	74.00	-32.72	peak	
6	*	5300.000	56.08	-12.94	43.14	74.00	-30.86	peak	

\*: Maximum data x: Over limit !: over margin

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File: EC20003\Data: #20

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Operation Mode	Test Mode 2 (added test)	Test Date	May 07, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Ver.

Site : 966-2 Chamber  
Limit: EN55022 Class B Radiation 1G-6G(Peak)

Polarization: **Vertical**  
Power: From Battery  
Distance:  
Mode: BT Stand by  
Temperature: 26 °C  
Humidity: 60 %

Note:

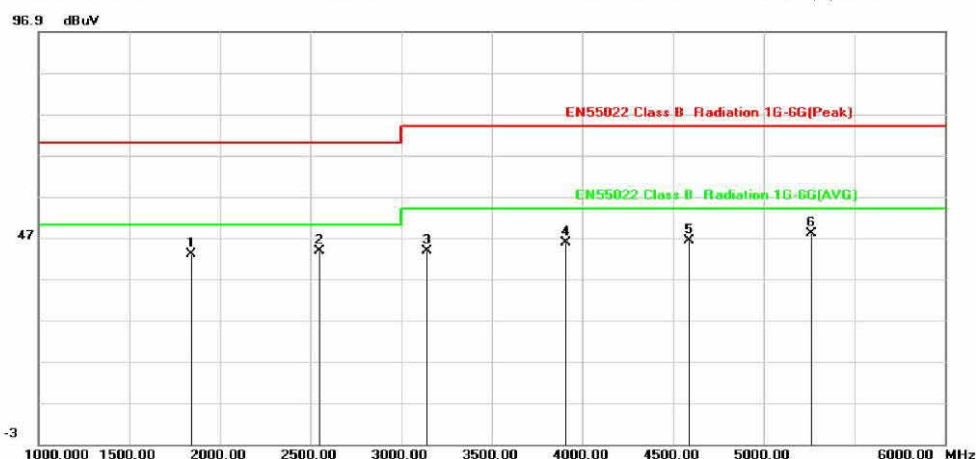
### Radiated Emission

File : EC20003-01

Data : #15

Date: 2013/5/7

Time: 下午 07:19:22



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1840.000	45.03	-2.09	42.94	70.00	-27.06	peak	
2		2550.000	43.35	0.52	43.87	70.00	-26.13	peak	
3		3140.000	41.85	1.98	43.83	74.00	-30.17	peak	
4		3910.000	41.93	3.94	45.87	74.00	-28.13	peak	
5		4590.000	40.54	5.72	46.26	74.00	-27.74	peak	
6	*	5260.000	40.49	7.49	47.98	74.00	-26.02	peak	

\*: Maximum data    x: Over limit    !: over margin

●: Reference Only

File : EC20003-01\Data : #15

Page: 1

Engineer Signature:

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Operation Mode	Test Mode 2 (added test)	Test Date	May 07, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Hor.

Site : 966-2 Chamber  
Limit: EN55022 Class B Radiation 1G-6G(Peak)

Polarization: **Horizontal** Temperature: 26 °C  
Power: From Battery Humidity: 60 %  
Distance:  
Mode: BT Stand by

Note:

### Radiated Emission

File : EC20003-01

Data : #16

Date: 2013/5/7

Time: 下午 07:26:07



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		2040.000	43.68	-0.52	43.16	70.00	-26.84	peak	
2	*	2970.000	42.66	1.70	44.36	70.00	-25.64	peak	
3		3960.000	41.80	4.13	45.93	74.00	-28.07	peak	
4		4780.000	40.87	6.88	47.75	74.00	-26.25	peak	
5		5370.000	40.16	7.18	47.34	74.00	-26.66	peak	
6		5520.000	40.04	6.86	46.90	74.00	-27.10	peak	

\*: Maximum data x: Over limit !: over margin

●: Reference Only

File : EC20003-01\Data : #16

Page: 1

Engineer Signature:

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Operation Mode	Test Mode 3	Test Date	Mar. 12, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Ver.

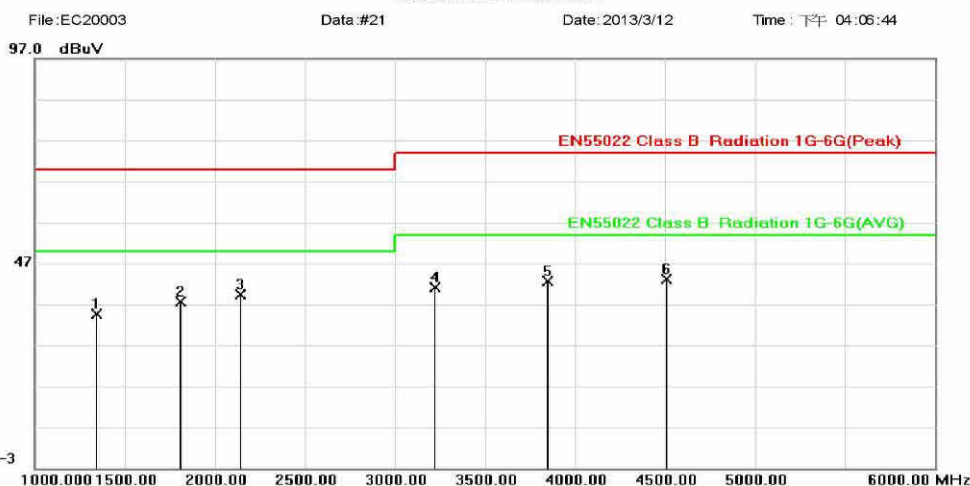
Site : 966-2 Chamber  
 Limit: EN55022 Class B Radiation 1G-6G(Peak)

Polarization: **Vertical**  
 Power: From Battery  
 Distance:  
 Mode:

Temperature: 26 °C  
 Humidity: 60%

Note: GPS

### Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1340.000	58.42	-23.73	34.69	70.00	-35.31	peak	
2		1810.000	58.66	-21.07	37.59	70.00	-32.41	peak	
3	*	2140.000	58.62	-19.22	39.40	70.00	-30.60	peak	
4		3220.000	58.07	-16.95	41.12	74.00	-32.88	peak	
5		3850.000	58.52	-15.83	42.69	74.00	-31.31	peak	
6		4510.000	57.53	-14.52	43.01	74.00	-30.99	peak	

\*: Maximum data x: Over limit !: over margin

●Reference Only

File: EC20003>Data: #21

Page: 1

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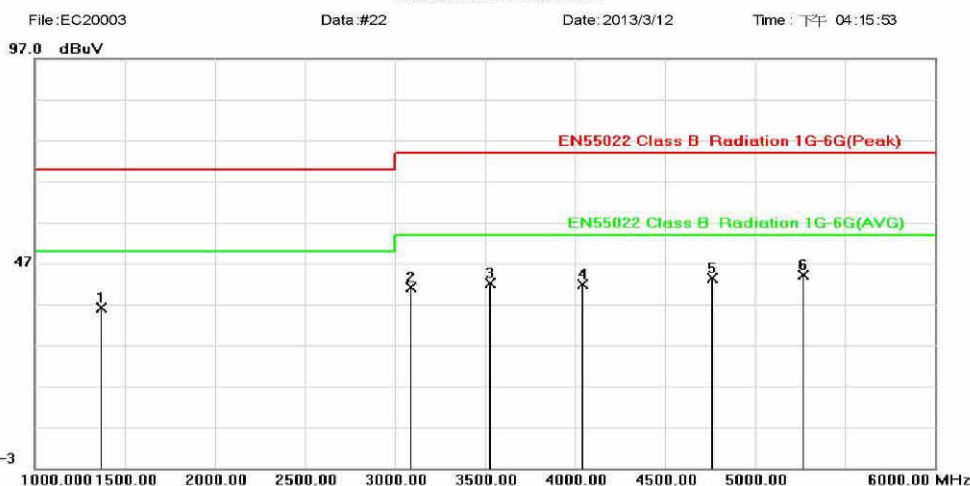
Operation Mode	Test Mode 3	Test Date	Mar. 12, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Hor.

Site : 966-2 Chamber  
Limit: EN55022 Class B Radiation 1G-6G(Peak)

Polarization: **Horizontal** Temperature: 26 °C  
Power: From Battery Humidity: 60%  
Distance:  
Mode:

Note: GPS

### Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1370.000	59.80	-23.66	36.14	70.00	-33.86	peak	
2		3090.000	58.27	-17.07	41.20	74.00	-32.80	peak	
3		3530.000	58.62	-16.59	42.03	74.00	-31.97	peak	
4		4040.000	57.25	-15.39	41.86	74.00	-32.14	peak	
5		4760.000	57.42	-14.02	43.40	74.00	-30.60	peak	
6	*	5270.000	57.02	-13.01	44.01	74.00	-29.99	peak	

\*:Maximum data x:Over limit !:over margin

●ReferenceOnly

File: EC20003\Data: #22

Page: 1

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Operation Mode	Test Mode 4	Test Date	Mar. 12, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Ver.



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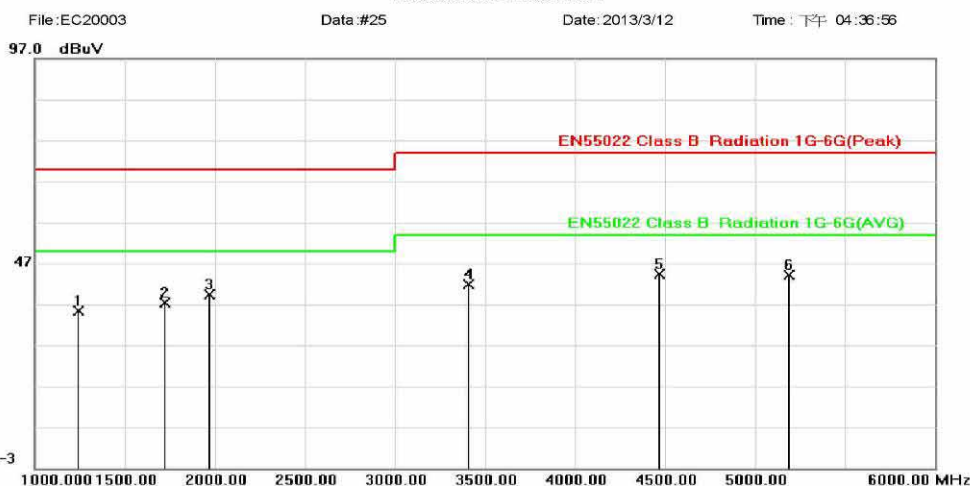
Site :966-2Chamber  
Limit: EN55022 Class B Radiation 1G-6G(Peak)

Polarization: **Vertical**  
Power: From System  
Distance:  
Mode:

Temperature: 26 °C  
Humidity: 60%

Note: Charge(230V/50Hz)

## Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1240.000	59.24	-23.93	35.31	70.00	-34.69	peak	
2		1720.000	59.00	-21.74	37.26	70.00	-32.74	peak	
3		1970.000	59.17	-19.85	39.32	70.00	-30.68	peak	
4		3410.000	58.69	-16.76	41.93	74.00	-32.07	peak	
5	*	4470.000	58.99	-14.59	44.40	74.00	-29.60	peak	
6		5190.000	57.31	-13.17	44.14	74.00	-29.86	peak	

\*:Maximum data x:Over limit !:over margin

●ReferenceOnly

File: EC20003Data: #25

Page: 1

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Operation Mode	Test Mode 4	Test Date	Mar. 12, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Hor.

Site : 966-2 Chamber  
Limit: EN55022 Class B Radiation 1G-6G(Peak)

Polarization: **Horizontal** Temperature: 26 °C  
Power: From System Humidity: 60%  
Distance:  
Mode:

Note: Charge(230V/50Hz)

### Radiated Emission

File: EC20003

Data: #26

Date: 2013/3/12

Time: 下午 04:45:26



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1		1150.000	59.46	-24.11	35.35	70.00	-34.65	peak	
2		1610.000	59.04	-22.57	36.47	70.00	-33.53	peak	
3		3130.000	58.06	-17.03	41.03	74.00	-32.97	peak	
4		3890.000	57.89	-15.73	42.16	74.00	-31.84	peak	
5		4500.000	57.58	-14.54	43.04	74.00	-30.96	peak	
6	*	5180.000	57.63	-13.19	44.44	74.00	-29.56	peak	

\*:Maximum data x:Over limit !:over margin

●ReferenceOnly

File: EC20003\Data: #26

Page: 1

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Operation Mode	Test Mode 5	Test Date	May 07, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Ver.

Site : 966-2 Chamber  
Limit: EN55022 Class B Radiation 1G-6G(Peak)

Polarization: **Vertical**

Temperature: 26 °C

Power: From System

Humidity: 60 %

Distance:

Mode: DATA Link

M/N: 8RS00

Note:

### Radiated Emission

File : EC20003-01

Data : #9

Date: 2013/5/7

Time: 下午 06:36:40



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1710.000	45.39	-3.30	42.09	70.00	-27.91	peak	
2		2220.000	43.72	-0.17	43.55	70.00	-26.45	peak	
3		3030.000	41.87	1.84	43.71	74.00	-30.29	peak	
4		3990.000	41.09	4.23	45.32	74.00	-28.68	peak	
5	*	4950.000	40.49	7.92	48.41	74.00	-25.59	peak	
6		5460.000	39.66	6.94	46.60	74.00	-27.40	peak	

\*: Maximum data    x: Over limit    !: over margin

●: Reference Only

File : EC20003-01\Data : #9

Page: 1

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Operation Mode	Test Mode 5	Test Date	May 07, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Hor.

Site : 966-2 Chamber  
Limit: EN55022 Class B Radiation 1G-6G(Peak)

Polarization: **Horizontal** Temperature: 26 °C

Power: From System Humidity: 60 %

Distance:

Mode: DATA Link

M/N: 8RS00

Note:

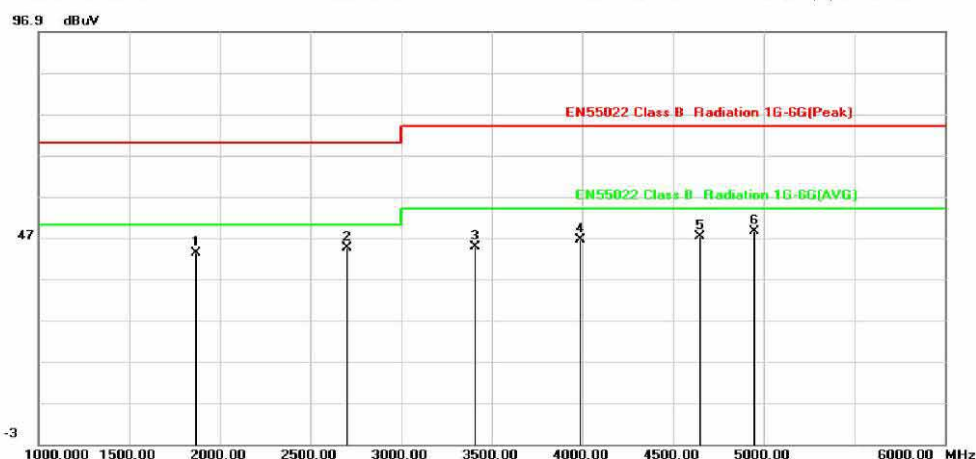
### Radiated Emission

File : EC20003-01

Data : #10

Date: 2013/5/7

Time: 下午 06:47:45



No.	Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector	Comment
1		1870.000	45.12	-1.82	43.30	70.00	-26.70	peak	
2		2700.000	43.51	0.94	44.45	70.00	-25.55	peak	
3		3410.000	42.47	2.33	44.80	74.00	-29.20	peak	
4		3990.000	42.35	4.23	46.58	74.00	-27.42	peak	
5		4650.000	41.14	6.08	47.22	74.00	-26.78	peak	
6	*	4950.000	40.54	7.92	48.46	74.00	-25.54	peak	

\*: Maximum data x: Over limit !: over margin

●: Reference Only

File : EC20003-01\Data : #10

Page: 1

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Operation Mode	Test Mode 6	Test Date	May 07, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Ver.

Site : 966-2 Chamber  
Limit: EN55022 Class B Radiation 1G-6G(Peak)

Polarization: **Vertical**

Temperature: 26 °C

Power: From Battery

Humidity: 60 %

Distance:

Mode: BT Link

M/N: 8RS00

Note:

### Radiated Emission

File : EC20003-01

Data : #11

Date: 2013/5/7

Time: 下午 06:58:31



No.	Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector	Comment
1		1710.000	47.79	-3.30	44.49	70.00	-25.51	peak	
2		2150.000	44.89	-0.31	44.58	70.00	-25.42	peak	
3		2870.000	43.19	1.42	44.61	70.00	-25.39	peak	
4		3800.000	42.92	3.54	46.46	74.00	-27.54	peak	
5		4640.000	40.53	6.02	46.55	74.00	-27.45	peak	
6	*	5030.000	40.93	8.14	49.07	74.00	-24.93	peak	

\*: Maximum data x: Over limit !: over margin

•Reference Only

File : EC20003-01\Data : #11

Page: 1

Engineer Signature:

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Operation Mode	Test Mode 6	Test Date	May 07, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Hor.

Site : 966-2 Chamber  
Limit: EN55022 Class B Radiation 1G-6G(Peak)

Polarization: **Horizontal** Temperature: 26 °C

Power: From Battery Humidity: 60 %

Distance:

Mode: BT Link

M/N: 8RS00

Note:

### Radiated Emission

File : EC20003-01

Data : #12

Date: 2013/5/7

Time: 下午 07:09:05



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1960.000	44.06	-0.98	43.08	70.00	-26.92	peak	
2	*	2750.000	44.22	1.09	45.31	70.00	-24.69	peak	
3		3310.000	42.65	2.20	44.85	74.00	-29.15	peak	
4		4250.000	41.53	4.73	46.26	74.00	-27.74	peak	
5		4890.000	41.26	7.55	48.81	74.00	-25.19	peak	
6		5160.000	40.59	7.77	48.36	74.00	-25.64	peak	

\*: Maximum data x: Over limit !: over margin

●: Reference Only

File : EC20003-01\Data : #12

Page: 1

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**2.5. DC power input/output ports measurement. Refer to EN 301 489-1 Section 8.3****2.5.1 Test Method:**

Standard	Date	Description
EN55022	2010 Class B	Limits and methods of measurement of radio interference characteristics of information technology equipment.

**2.5.2 Limit:**

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note		
1. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

**2.5.3 Test Procedure:**

1. EUT was placed on an 0.8m wooden table above ground plane..
2. Set up EUT with support units and turn on the power of all equipment.
3. Link the EUT with Telecommunication tester, setup the test mode. The transmitter operating at continuously mode and max output rated power.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Repeat above procedures until all frequency measured were complete.

**2.5.4 Test Instruments:**

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
EMI Test Receiver	ROHDE&SCHWARZ	ESCS 30	828985/004	Sep. 22, 2012	Sep. 21, 2013
Coaxial Cables	N/A	WK CE Cable	N/A	Nov. 26, 2012	Nov. 25, 2013
L.I.S.N	Rolf-Heine	NNB-2/16Z	99012	Mar. 23, 2012	Mar. 22, 2013
L.I.S.N	FCC	FCC-LISN-50/250-25-2-01	04034	Mar. 23, 2012	Mar. 22, 2013
Software	Farad	EZ-EMC-VER2A1.1(USB)	N/A	N/A	N/A

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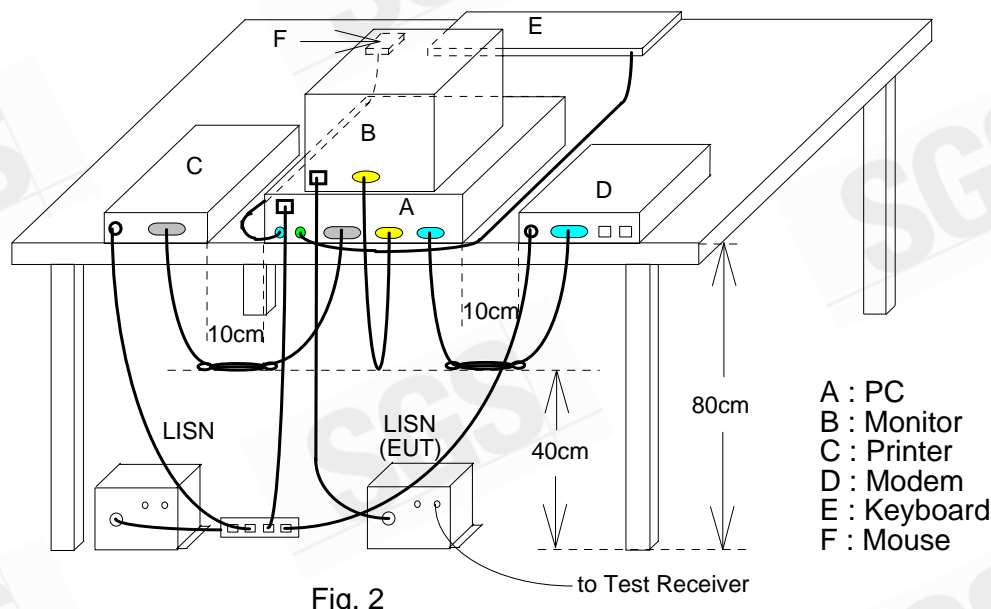
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## 2.5.5 Test SET-UP (Block Diagram of Configuration)



## 2.5.6 Uncertainty of Conducted Emission

Expanded uncertainty (k=2) of radiated emission measurement is 0.98dB.

## 2.5.7 Measurement level and Factor calculate method

Factor = LISN insertion loss + Cable loss

Measurement Level = Reading Level + Factor

## 2.5.8 Measurement Data:N/A.

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**2.6 AC Mains power input/output ports measurement. Refer to EN 301 489-1 Section 8.4****2.6.1 Test Method:**

Standard	Date	Description
EN55022	2010 Class B	Limits and methods of measurement of radio interference characteristics of information technology equipment.

**2.6.2 Limit: Refer to 2.5.2****2.6.3 Test Procedure: Refer to 2.5.3****2.6.4 Test Instruments: Refer to 2.5.4****2.6.5 Conduction Emission Test Set-up: Refer to 2.5.5****2.6.6 Uncertainty of Conducted Emission**

Expanded uncertainty (k=2) of radiated emission measurement is 0.98dB.

**2.6.7 Measurement level and Factor calculate method**

Factor = LISN insertion loss + Cable loss

Measurement Level = Reading Level + Factor

**2.6.8 Measurement Data: please refer next page.**

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## 2.6.8.1 Measurement Data:

Operation Mode	Test Mode 4	Test Date	Mar. 12, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Line



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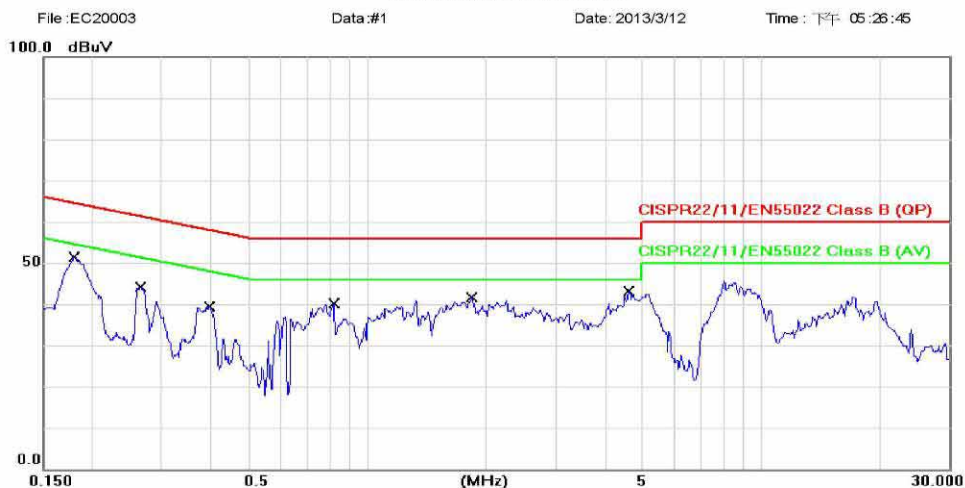
Site ConductionRoom  
Limit: CISPR22/11/EN55022 Class B (QP)

Phase: L1  
Power: FromSystem  
Distance:  
Mode:

Temperature: 26 °C  
Humidity: 60%

Note: Charge Mode (230V/50Hz)

## Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1800	51.17	0.23	51.40	64.49	-13.09	QP	
2		0.2644	43.79	0.23	44.02	61.29	-17.27	QP	
3		0.3955	39.05	0.23	39.28	57.95	-18.67	QP	
4		0.8200	39.92	0.23	40.15	56.00	-15.85	QP	
5		1.8400	41.38	0.27	41.65	56.00	-14.35	QP	
6	*	4.6100	42.79	0.33	43.12	56.00	-12.88	QP	

\*:Maximum data x:Over limit !:over margin

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File: EC20003\Data: #1

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Operation Mode	Test Mode 4	Test Date	Mar. 12, 2013
Temperature	26	Test By	Jeffrey Chou
Humidity	60 %	Pol	Neutral

Site: Conduction Room  
Limit: CISPR22/11/EN55022 Class B (QP)

Phase: N  
Power: From System  
Distance:  
Mode:

Temperature: 26 °C  
Humidity: 60%

Note: Charge Mode (230V/50Hz)

### Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1800	47.97	0.33	48.30	64.49	-16.19	QP	
2		0.2701	39.68	0.34	40.02	61.11	-21.09	QP	
3		0.8200	36.83	0.33	37.16	56.00	-18.84	QP	
4		1.8000	36.38	0.35	36.73	56.00	-19.27	QP	
5	*	4.9200	41.38	0.38	41.76	56.00	-14.24	QP	
6		8.8400	42.95	0.44	43.39	60.00	-16.61	QP	

\*:Maximum data x:Over limit !:over margin

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## 2.7 Harmonic Current Emissions (AC mains input port) measurement. Refer to EN 301 489-1 Section 8.5

### 2.7.1 Test Method: EN 61000-3-2:2006+A1:2009+A2:2009

### 2.7.2 Test Instruments:

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
Power Analyzer	EMC Partner	HAR1000-1P	151	Jun. 15, 2012	Jun. 14, 2013

### 2.7.3 Measurement Result: N/A

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## 2.8 Voltage Fluctuations and Flicker (AC mains input port) measurement. Refer to EN 301 489-1 Section 8.6

### 2.8.1 Test Method: EN 61000-3-3:2008

### 2.8.2 Test Instruments:

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
Power Analyzer	EMC Partner	HAR1000-1P	151	Jun. 15, 2012	Jun. 14, 2013

### 2.8.3 Measurement Result: N/A

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## 2.9 Telecommunication Port measurement. Refer to EN 301 489-1 Section 8.7

### 2.9.1 Test Method:

Standard	Date	Description
EN55022	2010 Class B	Limits and methods of measurement of radio interference characteristics of information technology equipment.

### 2.9.2 Limit: Limits for conducted emissions from telecommunication ports

Frequency range	Voltage limits		Current limits	
	Quasi-peak	Average	Quasi-peak	Average
0,15 MHz to 0,5 MHz	84 dB $\mu$ V to 74 dB $\mu$ V	74 dB $\mu$ V to 64 dB $\mu$ V	40 dB $\mu$ A to 30 dB $\mu$ A	30 dB $\mu$ A to 20 dB $\mu$ A
0,5 MHz to 30 MHz	74 dB $\mu$ V	64 dB $\mu$ V	30 dB $\mu$ A	20 dB $\mu$ A
NOTE 1: The limits decrease linearly with the logarithm of the frequency in the range 0,15 MHz to 0,5 MHz.				
NOTE 2: The current and voltage disturbance limits are derived for use with an Impedance Stabilization Network (ISN) which presents a common mode (asymmetric mode) impedance of 150 $\Omega$ to the telecommunication port under test (conversion factor is $20 \log_{10} 150/I = 44\text{dB}$ )				
NOTE 3: The emission requirement only applies to telecommunication ports as specified in EN 55022 [7]. The provisional relaxation of 10 dB will be reviewed no later than 3 years after the date of withdrawal based on the results and interference cases seen in this period. Wherever possible it is recommended to comply with the limits without the provisional relaxation.				

### 2.9.3 Test Procedure: Refer to EN 55022

### 2.9.4 Test Instruments: Refer to 2.5.4

### 2.9.5 Conduction Emission Test Set-up: Refer to 2.5.5

### 2.9.6 Measurement Data: N/A

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### 3. IMMUNITY

EN 301 489-3 V1.4.1: 2002

EN 301 489-17 V2.1.1: 2009

#### 3.1 Test Configuration:

Refer to EN 301 489-1, Section 9.1.

#### 3.2 Special Conditions:

##### EN301489-3

Reference to clauses in EN 301 489-1 [1]	Special product-related conditions, additional to or modifying the test conditions in EN 301 489-1 [1], clause 9
9.2.2: Test method; Radio frequency electromagnetic field	<b>Attention:</b> The width of the steps for the test frequency increments is class-dependent: <ul style="list-style-type: none"> <li>- for SRDs of class 1 or class 2, the stepped frequency increments shall be 1 % of the momentary used test frequency;</li> <li>- for SRDs of class 3, the stepped frequency increments shall be 10 % of the momentary used test frequency.</li> </ul>
9.5.2: Test method; Radio frequency, common mode	<b>Attention:</b> The width of the steps for the test frequency increments is class-dependent: <ul style="list-style-type: none"> <li>- for SRDs of class 1 or class 2, the stepped frequency increments shall be 1 % of the momentary used test frequency in the frequency range 5 MHz to 80 MHz;</li> <li>- for SRDs of class 3, the stepped frequency increments shall be 10 % of the momentary used test frequency in the frequency range 5 MHz to 80 MHz.</li> </ul>
9.7.3: Performance criteria; Voltage dips and interruptions	<b>Attention:</b> The performance criteria are equipment class dependent: For a voltage dip corresponding to a reduction of the supply voltage of 30 % for 10 ms the performance criteria CT or CR specified in clauses 6.4 or 6.6 shall apply as appropriate. For a voltage dip corresponding to a reduction of the supply voltage of 60 % for 100 ms the following class-dependent performance criteria shall apply: <ul style="list-style-type: none"> <li>- for transmitters, belonging to class 1 equipment, the performance criteria CT (see clause 6.4);</li> <li>- for transmitters, belonging to class 2 or 3 equipment, the performance criteria TT (see clause 6.5);</li> <li>- for receivers, belonging to class 1 equipment, the performance criteria CR (see clause 6.6);</li> <li>- for receivers, belonging to class 2 or 3 equipment, the performance criteria TR (see clause 6.7).</li> <li>- For a voltage interruption corresponding to a reduction of the supply voltage of &gt; 95 % for 5 000 ms the performance criteria TT or TR specified in clauses 6.5 or 6.7 shall apply as appropriate.</li> </ul>

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**EN301489-17**

No special conditions shall apply to UE in the scope of the present document.

**3.3 Summary of Test Results:**

Test Items	Reference Section	Result
Radio frequency electromagnetic field (80 to 1000MHz and 1400MHz to 2700MHz)	EN 301 489-1 Section 9.2	PASS
Electrostatic discharge	EN 301 489-1 Section 9.3	PASS
Fast transients, common mode	EN 301 489-1 Section 9.4	N/A
Radio Frequency, common mode	EN 301 489-1 Section 9.5	N/A
Transients and surges in the vehicular environment	EN 301 489-1 Section 9.6	N/A
Voltage Dips and interruptions	EN 301 489-1 Section 9.7	N/A
Surges	EN 301 489-1 Section 9.8	N/A

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## 3.4 Performance Criteria Description:

## EN301489-3

Equipment Type	Technical nature of the primary function
I	Transfer of messages (digital or analogue signals)
II	Transfer of audio (speech or music)
III	Others

Class 1 SRD equipment		
Criteria	During test	After test
A	Operate as intended No loss of function For equipment type II the minimum performance shall be 12 dB SINAD No unintentional responses	Operate as intended For equipment type II the communication link shall be maintained No loss of function No degradation of performance No loss of stored data or user programmable functions
B	May be loss of function (one or more) No unintentional responses	Operate as intended Lost function(s) shall be self-recoverable No degradation of performance No loss of stored data or user programmable functions
Class 2 SRD equipment		
Criteria	During test	After test
A	Operate as intended No loss of function For equipment type II the minimum performance shall be 6 dB SINAD No unintentional responses	Operate as intended For equipment type II the communication link shall be maintained No loss of function No degradation of performance No loss of stored data or user programmable functions
B	May be loss of function (one or more) No unintentional responses	Operate as intended Lost function(s) shall be self-recoverable No degradation of performance No loss of stored data or user programmable functions
Class 3 SRD equipment		
Criteria	During test	After test
A and B	May be loss of function (one or more) No unintentional responses	Operate as intended, for equipment type II the communication link may be lost, but shall be recoverable by user No degradation of performance Lost functions shall be self-recoverable

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## EN301489-17

During test		After test	Criteria
Shall operate as intended; May show degradation of performance (See note 1) Shall be no loss of function Shall be no unintentional transmissions		Shall Operate as intended; Shall be no degradation of performance (See note 2) Shall be no loss of function Shall be no loss of stored data or user programmable functions	A
May show loss of function (one or more) May show degradation of performance (see note 1) No unintentional transmissions		Functions shall be self-recoverable Shall operate as intended after recovering Shall be no degradation of performance (see note 2) Shall be no loss of stored data or user programmable functions	B
May be loss of function (one or more)		Functions shall be recoverable by the operator Shall operate as intended after recovering Shall be no degradation of performance (see note 2)	C
<b>Note 1 :</b>	Degradation of performance during the test is understood as degradation to a level not below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. If the minimum performance level or the permissible performance degradation is not specified by the manufacturer, then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.		
<b>Note 2 :</b>	No degradation of performance after the test is understood as no degradation below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. After the test no change of actual operating data or user retrievable data is allowed. If the minimum performance level or the permissible performance degradation is not specified by the manufacturer, then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.		
<b>Performance criteria for Continuous phenomena applied to Transmitters and Receivers</b> The performance criteria A shall apply.			
<b>Performance criteria for Transient phenomena applied to Transmitters and Receivers</b> The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5000ms duration, for which performance criteria C shall apply.			

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### 3.5 Radio Frequency Electromagnetic Field (80 to 1000MHz and 1400 to 2700MHz) Measurement. Refer to EN 301 489-1 Section 9.2

#### 3.5.1 Test Method and Procedure:

EN61000-4-3 :2010, and EN 301 489-1 Section 9.2.2.

#### 3.5.2 Performance criteria:

Refer to EN 301 489-1 Section 9.2.3.

#### 3.5.3 Test Instruments:

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
RS Test Site	Chance Most	8*4*4 Chamber	N/A	Apr. 12, 2012	Apr. 11, 2013
Signal Generator	Agilent	E4438C	MY45093613	Jul. 15, 2011	Jul. 14, 2013
Signal Generator	Agilent	8648D	3847M00482	May. 31, 2012	May. 30, 2013
Power Amplifier (20-1000MHz)	OPHIR	5127FE	1050	N/A	N/A
Power Amplifier (800-2500MHz)	FRANKONIA	FLG-50B	1011	N/A	N/A
Power Amplifier (1000-3000MHz)	OPHIR	3814FE	N/A	N/A	N/A
Relay Switching Unit	FRANKONIA	RSU-3203	113A3122	N/A	N/A
Remote RF Switch	Audix	r2S1216	2008040801	N/A	N/A
Turn Table	Chance Most	N/A	N/A	N/A	N/A
Antenna Tower	Chance Most	N/A	N/A	N/A	N/A
Controller	Chance Most	886	N/A	N/A	N/A
Log-Per Broad band Antenna	Schwarzbeck	VUSLP9111E	N/A	N/A	N/A
Strength Field Meter	Wandel & Goltermann	EMR-30	M-0006	Jun. 02, 2011	Jun. 01, 2013
Spectrum Analyzer	R & S	FSP 40	1093.4495.40	May 24, 2012	May 23, 2013

For added test

#### Radiated Electromagnetic Field Immunity Measurement (61000-4-3)

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
RS Test Site	Chance Most	9*6*6 Chamber	SAC-B	Mar. 12, 2013	Mar. 11, 2014
Signal Generator	R&S	SMC100A	102920	Feb. 08, 2013	Feb. 07, 2014
Power Sensor	R&S	NRP-Z91	101602	Feb. 08, 2013	Feb. 07, 2014
Power Sensor	R&S	NRP-Z91	101603	Feb. 08, 2013	Feb. 07, 2014
Power Amplifier	R&S	BBA100	101075	Jul. 12, 2012	Jul. 11, 2013
Power Amplifier	R&S	BBA100	101021	Apr. 24, 2013	Apr. 23, 2014
Power Amplifier	MILMEGA	AS0104-100/100	1049222	Apr. 24, 2013	Apr. 23, 2014
High Power Broadband Antenna	SCHWARZBECK	VHBD 9134	9134-075	N.C.R.	N.C.R.
High Gain Log-Per. Antenna	R&S	HL046E	100112	N.C.R.	N.C.R.
Calibrated Broadband Log-Per. Test-Antenna	SCHWARZBECK	STLP 9149	9149-151	N.C.R.	N.C.R.
EMC Field Probes	ETS-Lindgren	HI-6005	00135731	Feb. 24, 2012	Feb. 23, 2014
Test Software	R&S	EMC 32	V8.51.0-TA14-P207_RS	N.C.R.	N.C.R.

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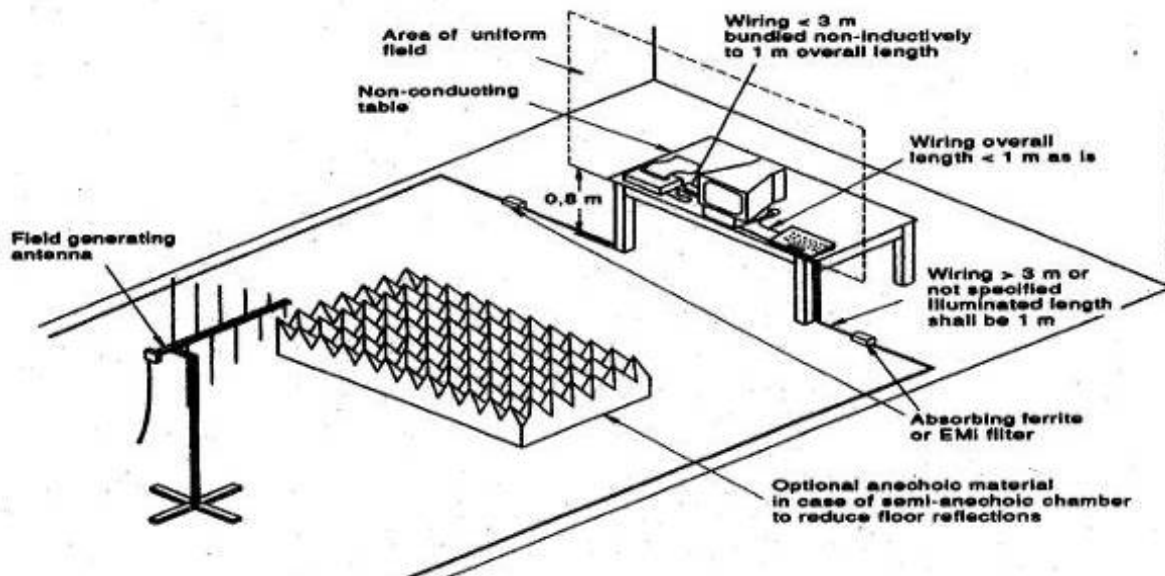
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### 3.5.4 Test SET-UP (Block Diagram of Configuration):



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**3.5.5 Measurement Data:**

Operation Mode	Test Mode 1~4	Test Date	Mar. 14, 2013
Temperature	22	Test By	Jeffrey Chou
Humidity	52 %		

Basic Standard : EN61000-4-3  
Frequency range : 80 MHz -1000 MHz; 1400 MHz -2700 MHz;  
Field strength : 3 V/m  
Modulation : AM 80%, 1 KHz Sinewave  
Frequency step : 1 % of fundamental  
Polarity of Antenna : Horizontal and Vertical  
Dwell Time : 3 seconds  
Test distance : 3 m

No.	Frequency (MHz)	Antenna Orientation	Observation	EUT Orientation
1	80 – 2700	Vertical/Horizontal	CT, CR and A	0 degree
2	80 – 2700	Vertical/Horizontal	CT, CR and A	90 degree
3	80 – 2700	Vertical/Horizontal	CT, CR and A	180 degree
4	80 – 2700	Vertical/Horizontal	CT, CR and A	270 degree

**Remark:** CT, CR and A: No degradation in the performance of the EUT was observed.  
N/A : Not Applicable.

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Operation Mode	Test Mode 5~6	Test Date	May 10, 2013
Temperature	22.2	Test By	Jeffrey Chou
Humidity	59 %		

Basic Standard : EN61000-4-3  
Frequency range : 80 MHz -1000 MHz; 1400 MHz -2700 MHz;  
Field strength : 3 V/m  
Modulation : AM 80%, 1 KHz Sinewave  
Frequency step : 1 % of fundamental  
Polarity of Antenna : Horizontal and Vertical  
Dwell Time : 3 seconds  
Test distance : 3 m

No.	Frequency (MHz)	Antenna Orientation	Observation	EUT Orientation
1	80 – 2700	Vertical/Horizontal	CT, CR and A	0 degree
2	80 – 2700	Vertical/Horizontal	CT, CR and A	90 degree
3	80 – 2700	Vertical/Horizontal	CT, CR and A	180 degree
4	80 – 2700	Vertical/Horizontal	CT, CR and A	270 degree

**Remark:** CT, CR and A: No degradation in the performance of the EUT was observed.

N/A : Not Applicable.

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**3.6 Electrostatic Discharge Measurement. Refer to EN 301 489-1 Section 9.3****3.6.1 Test Method and Procedure:**

EN61000-4-2: 2009, and EN 301 489-1 Section 9.3.2.

**3.6.2 Performance criteria:**

Refer to EN 301 489-1 Section 9.3.3.

**3.6.3 Test Instruments:**

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
ESD Simulator	NoiseKen	ESS-100L/TC-815R	ESS0635368	Jun. 27, 2012	Jun. 28, 2013
HCP	N/A	1.6 x 0.8 m	N/A	N/A	N/A
VCP	N/A	0.5 x 0.5 m	N/A	N/A	N/A
Ground Reference Plane	N/A	6.5 x 3.5 m	N/A	N/A	N/A
Spectrum Analyzer	R & S	FSP 40	1093.4495.40	May 24, 2012	May 23, 2013

For added test

ESD test (61000-4-2)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
ESD Simulator	KeyTek	MiniZap	0612313(Simulator) 0612314(Omni Tip)	Apr. 23, 2013	Apr. 22, 2014

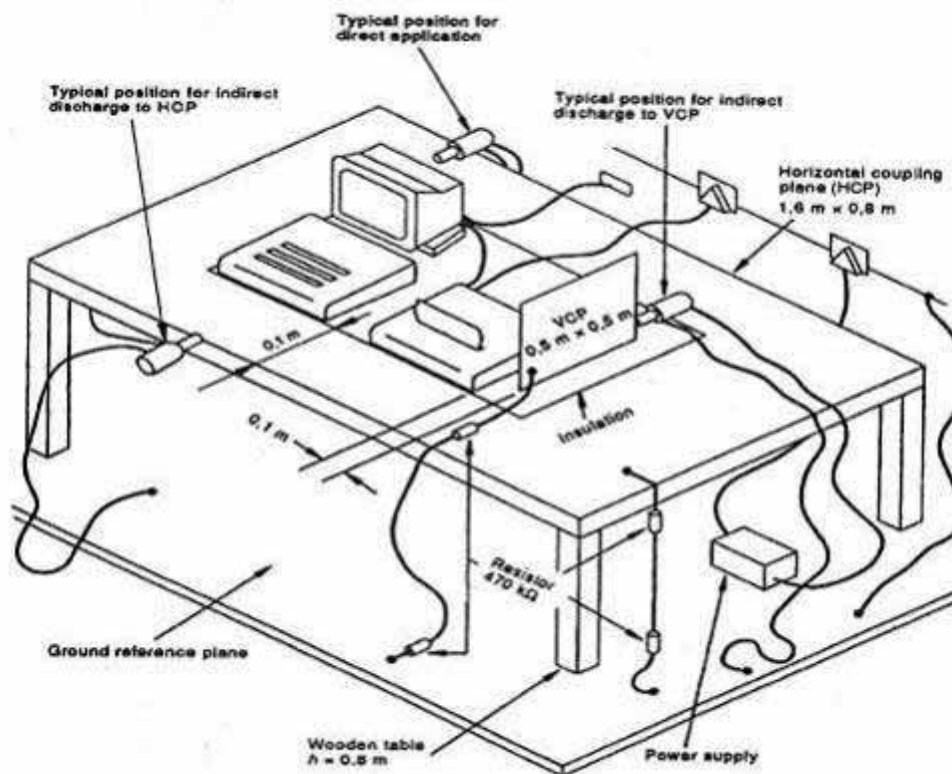
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## 3.6.4 Test SET-UP (Block Diagram of Configuration)



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#### 3.6.5.1 Measurement Data:

Basic Standard	: EN61000-4-2
Discharge Impedance	: 330 ohm / 150 pF
Discharge Voltage	: Air Discharge : +/- 2, 4, 8 KV Contact Discharge : +/- 2, 4 KV VCP/HCP : +/- 2, 4 KV
Polarity	: Positive/Negative
Number of Discharge	: 10 times at each test point
Discharge Mode	: Single Discharge
Discharge Period	: 1 second

### A. Observations :

Direct Application			Test Results	
Discharge Level (kV)	Polarity (+/-)	Test Point	Contact Discharge	Air Discharge
2, 4, 8	+/-	1 ~6	N/A	CT, CR and A
2, 4	+/-	1, 2, 7	CT, CR and A	N/A

### B. Observations :

Indirect Application			Test Results	
Discharge Level (kV)	Polarity (+/-)	Test Point	Horizontal Coupling	Vertical Coupling
2, 4	+/-	1 - 4	CT, CR and A	CT, CR and A

### Remark

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Basic Standard	: EN61000-4-2
Discharge Impedance	: 330 ohm / 150 pF
Discharge Voltage	: Air Discharge : +/- 2, 4, 8 KV Contact Discharge : +/- 2, 4 KV VCP/HCP : +/- 2, 4 KV
Polarity	: Positive/Negative
Number of Discharge	: 10 times at each test point
Discharge Mode	: Single Discharge
Discharge Period	: 1 second

### C. Observations :

Direct Application			Test Results	
Discharge Level (kV)	Polarity (+/-)	Test Point	Contact Discharge	Air Discharge
2, 4, 8	+/-	1 ~5	N/A	TT, TR and B
2, 4	+/-	6, 7	CT, CR and A	N/A

#### D. Observations :

Indirect Application			Test Results	
Discharge Level (kV)	Polarity (+/-)	Test Point	Horizontal Coupling	Vertical Coupling
2, 4	+/-	1 - 4	CT, CR and A	CT, CR and A

### Remark

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**3.7 Fast Transients, Common Mode Measurement. Refer to EN 301 489-1 Section 9.4****3.7.1 Test Method and Procedure:**

EN61000-4-4: 2004+A1:2010, and EN 301 489-1 Section 9.4.2.

**3.7.2 Performance criteria:**

Refer to EN 301 489-1 Section 9.4.3.

**3.7.3 Test Instruments**

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
EMS Multi-Tester	EMC Partner	TRANSIENT 2000	648	Mar. 23, 2013	Mar. 22, 2014
Clamp	EMC Partner	CN-EFT1000	469	N/A	N/A

**3.7.4 Test SET-UP (Block Diagram of Configuration):**

Refer to Annex 1 setup photo

**3.7.5 Measurement Data:**

Operation Mode	N/A	Test Date	N/A
Temperature	N/A	Test By	N/A
Humidity	N/A		

Basic Standard : EN61000-4-4  
Test Voltage : AC Input/Output : +/- 1 kV  
Polarity : Positive/Negative  
Impulse Frequency : 5 kHz  
Tr/Tn : 5/50ns  
Burst : 15ms/300ms

**Observation :**

Test Point	Polarity	Test Level (kV)	Results
L	+/-	1	N/A
N	+/-	1	N/A
L-N	+/-	1	N/A

**Remark**

N/A : Not Applicable.

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**3.8 Radio Frequency, Common Mode Measurement. Refer to EN 301 489-1 Section 9.5****3.8.1 Test Method and Procedure:**

EN61000-4-6: 2009, and EN 301 489-1 Section 9.5.2.

**3.8.2 Performance criteria:**

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
CS Test Site	N/A	N/A	N/A	Jun. 13, 2012	Jun. 12, 2013
Signal Generator	ROHDE&SCHWARZ	SMY01	844146/016	Dec. 18, 2012	Dec. 17, 2013
RF Power Amplifier	Kalmus	116FC-CE	8380-1	N/A	N/A
6dB-PowerAttenuator	Bird	25-A-MFN-06	9731	N/A	N/A
Coaxial Cables	N/A	No. 15-17, 21-23	N/A	N/A	N/A
CDN (M2+M3)	FRANKONIA	M2+M3	A3011070	Mar. 30, 2013	Mar. 29, 2014
EM Injection Clamp	FCC	F-203I-23MM	479	Nov. 28, 2012	Nov. 27, 2013
Communication Tester	R&S	CMU200	116097	Feb. 27, 2013	Feb. 26, 2014
Audio Analyzer	R&S	UPL16	100164	Mar. 21, 2013	Mar. 20, 2014
Mouth Simulator	B&K	4227	2423926	N/A	N/A
Sound Level Calibrator	B&K	4231	2592216	May 10, 2012	May 09, 2014
Ear Simulator	B&K	4195	02447500	N/A	N/A
Ear Simulator	B&K	4192	2409771	N/A	N/A
Audio Power Amplifier	B&K	2176-C-001	2400477	N/A	N/A

**3.8.3 Test Instruments:**

Refer to EN 301 489-1 Section 9.5.3.

**3.8.4 Test SET-UP (Block Diagram of Configuration):**

N/A

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**3.8.5 Measurement Data:**

Operation Mode	N/A	Test Date	N/A
Temperature	N/A	Test By	N/A
Humidity	N/A		

Basic Standard : EN61000-4-6  
Frequency range : 0.15 MHz - 80 MHz  
Field strength : 3 V/rms  
Modulation : AM 80%, 1 kHz Sinewave  
Frequency step : 1 % of fundamental  
Dwell Time : 3 seconds  
Coupling Method : CDN 2 Lines

Port Description	Frequency (MHz)	Observation
AC input	0.15 – 80	N/A

**Signal Ports**

Cable Description	Frequency (MHz)	Observation
Signal/Comm.	0.15 – 80	N/A

**Remark**

N/A : Not Applicable.

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### 3.9 Transients and surges in the vehicular environment measurement. Refer to EN 301 489-1 Section 9.6

#### 3.9.1 Test Method and Procedure:

Refer to ISO 7637-2 for 12Vdc equipment. , and EN 301 489-1 Section 9.6.2.

#### 3.9.2 Performance criteria:

Refer to EN 301 489-1 Section 9.6.3.

#### 3.9.3 Test Instruments:

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
LISN	TESEQ	LISN2-S	EMC-111 F343	Jun. 27, 2011	Jun. 26, 2013
Load Dump	TESEQ	LD 5505	EMC-112 1233	Jun. 27, 2011	Jun. 26, 2013
Function Generator	TESEQ	FG 5620	EMC-113 1231	Jun. 27, 2011	Jun. 26, 2013
Power Amplifier	TESEQ	PA 5840-75	EMC-114 4106	Jun. 27, 2011	Jun. 26, 2013
Burst Attenuator	TESEQ	INA 5030B	EMC-115 1221	N/A	N/A
Micro Transient Generator	TESEQ	MT 5511	EMC-116 1241	Jun. 27, 2011	Jun. 26, 2013
Fast Transient Generator	TESEQ	FT 5530	EMC-117 123	Jun. 27, 2011	Jun. 26, 2013
Resistor Modul	TESEQ	RM 5505	EMC-118 1216	Jun. 27, 2011	Jun. 26, 2013

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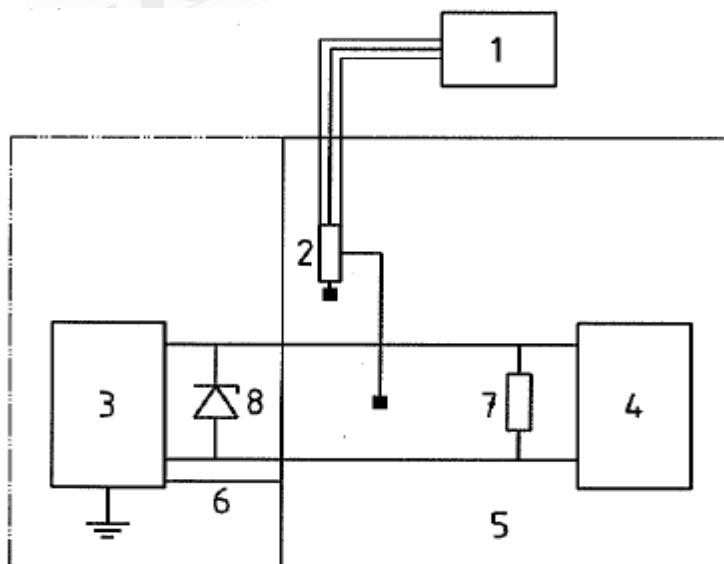
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### 3.9.4 Test SET-UP (Block Diagram of Configuration):



- |   |   |   |   |
|---|---|---|---|
| 1 | oscilloscope or equivalent                      | 5 | ground plane  |
| 2 | voltage probe                                   | 6 | Ground connection (maximum length for test pulse 3: 100 mm) |
| 3 | test pulse generator with internal power supply | 7 | optional resistor ( $R_V$ ) <sup>a</sup>                    |
| 4 | DUT   | 8 | optional diode bridge <sup>b</sup>                          |

### 3.9.5 Measurement Data:

N/A

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**3.10 Voltage Dips and Interruptions Measurement. Refer to EN 301 489-1 Section 9.7****3.10.1 Test Method and Procedure:**

EN61000-4-11: 2004, and EN 301 489-1 Section 9.7.2.

**3.10.2 Performance criteria:**

Refer to EN 301 489-1 Section 9.7.3.

**3.10.3 Test Instruments**

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
EMS Multi-Tester	EMC Partner	TRANSIENT 2000	648	Mar. 23, 2013	Mar. 22, 2014

**3.10.4 Test SET-UP:**

Refer to Annex 1 setup photo

**3.10.5 Measurement Data::**

Operation Mode	N/A	Test Date	N/A
Temperature	N/A	Test By	N/A
Humidity	N/A		

EUT Rated Voltage : 230 Volts.

Voltage : 0%, 70% Ut

Phase Angle : 0, 180 degree

Total events: 3 drops

Event interval : 10 seconds

Environmental phenomena	Test specification	Cycle	Observation
Voltage dips	0%	0.5	N/A
	0%	1	N/A
	70%	25	N/A
Voltage interruption	0%	250	N/A

**Results**

N/A : Not Applicable.

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**3.11 Surges Measurement. Refer to EN 301 489-1 Section 9.8****3.11.1 Test Method and Procedure:**

EN61000-4-5:2006, and EN 301 489-1 Section 9.8.2.

**3.11.2 Performance criteria:**

Refer to EN 301 489-1 Section 9.8.3.

**3.11.3 Test Instruments:**

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
EMS Multi-Tester	EMC Partner	TRANSIENT 2000	648	Mar. 23, 2013	Mar. 22, 2014
Universal Surge CDN	EMC Partner	CDN-UTP	015	Mar. 23, 2013	Mar. 22, 2014

**3.11.4 Test SET-UP (Block Diagram of Configuration):**

Refer to Annex 1 setup photo

**3.11.5 Measurement Data:**

Operation Mode	N/A	Test Date	N/A
Temperature	N/A	Test By	N/A
Humidity	N/A		

Test Rate : 1 pulse every minute

No. of Tests : 5 positive and 5 negative pulses

**Observation Description**

Test Point	Phase Angle (degree)	Polarity (+/-)	Test Level (kV)	Observation
L – N	0, 90, 180, 270	+/-	1	N/A
L – PE	0, 90, 180, 270	+/-	2	N/A
N – PE	0, 90, 180, 270	+/-	2	N/A

**Results**

N/A : Not Applicable.

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## APPENDIX 1

### PHOTOGRAPHS OF TEST SETUP

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## CE Testing Set-up

### Test Mode 4



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**RE Testing Set-up  
Below 1G  
Test Mode 1~3**



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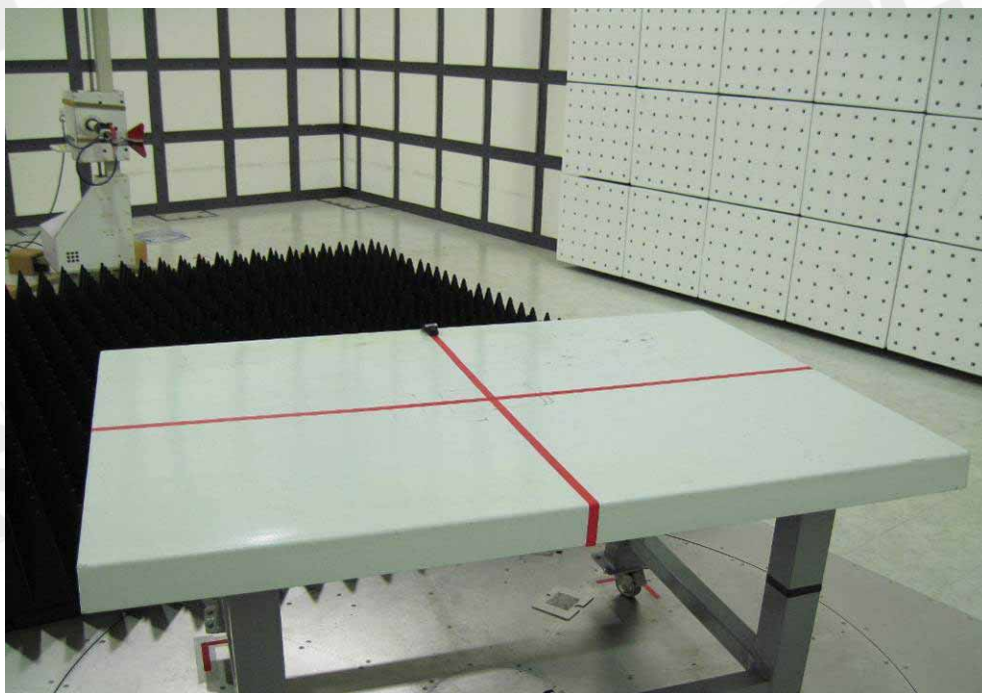
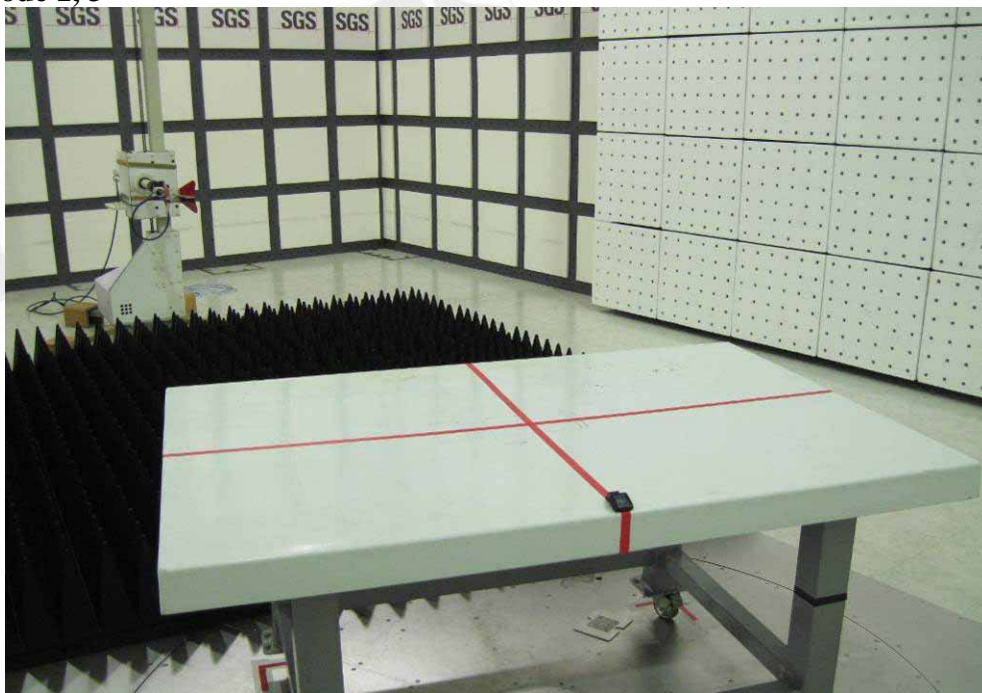
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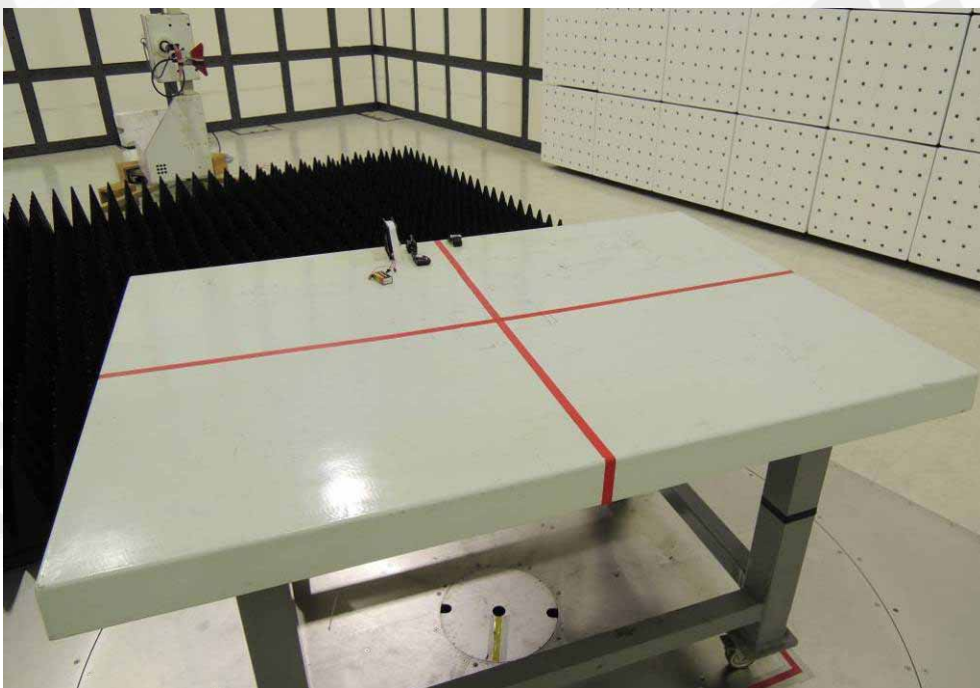
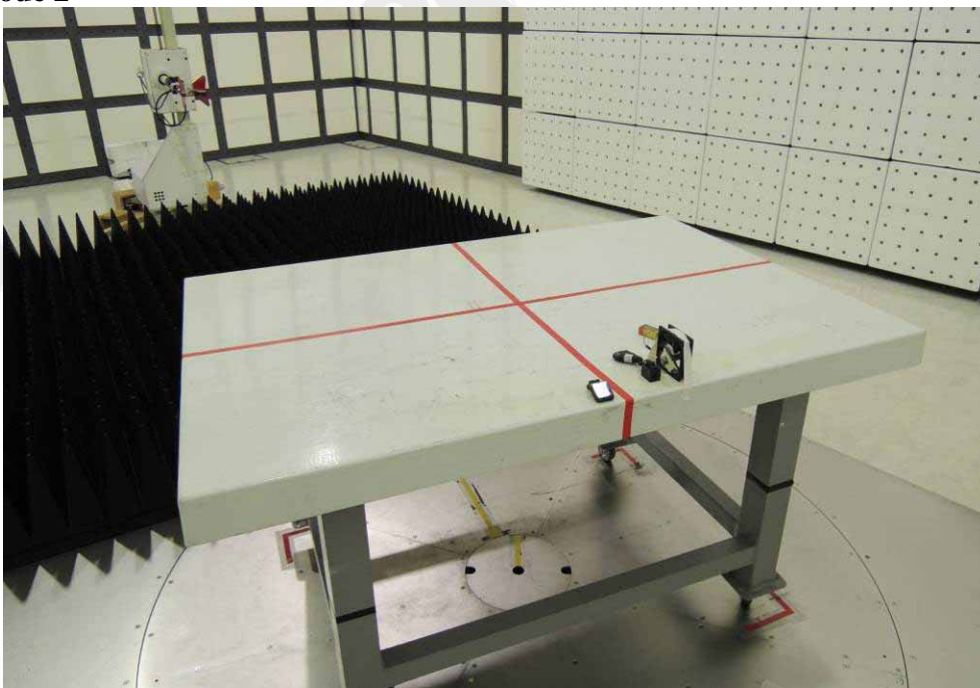
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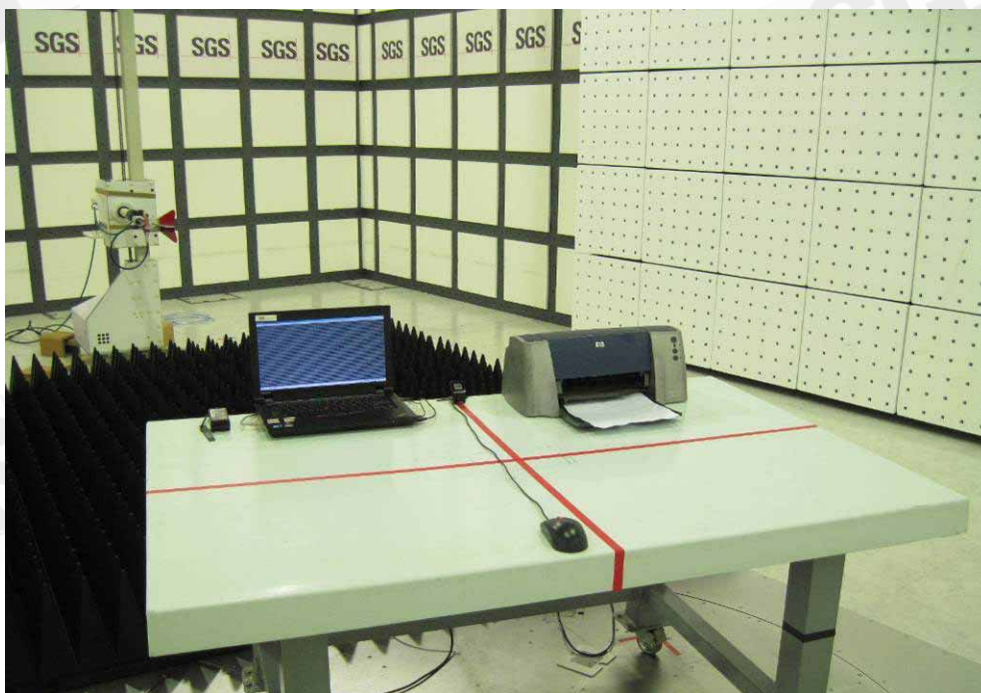
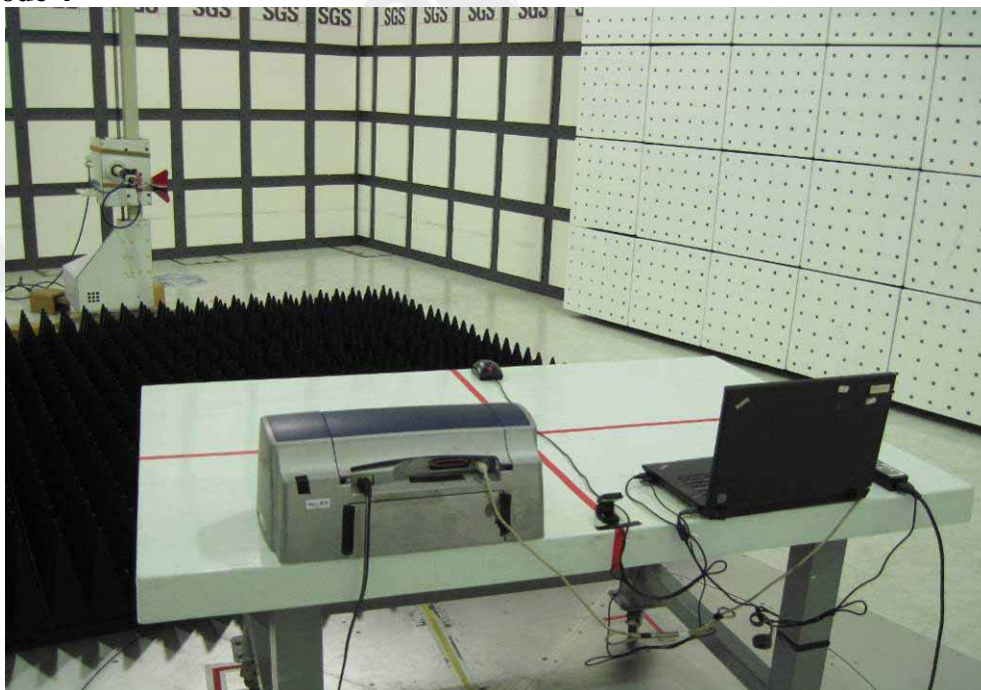
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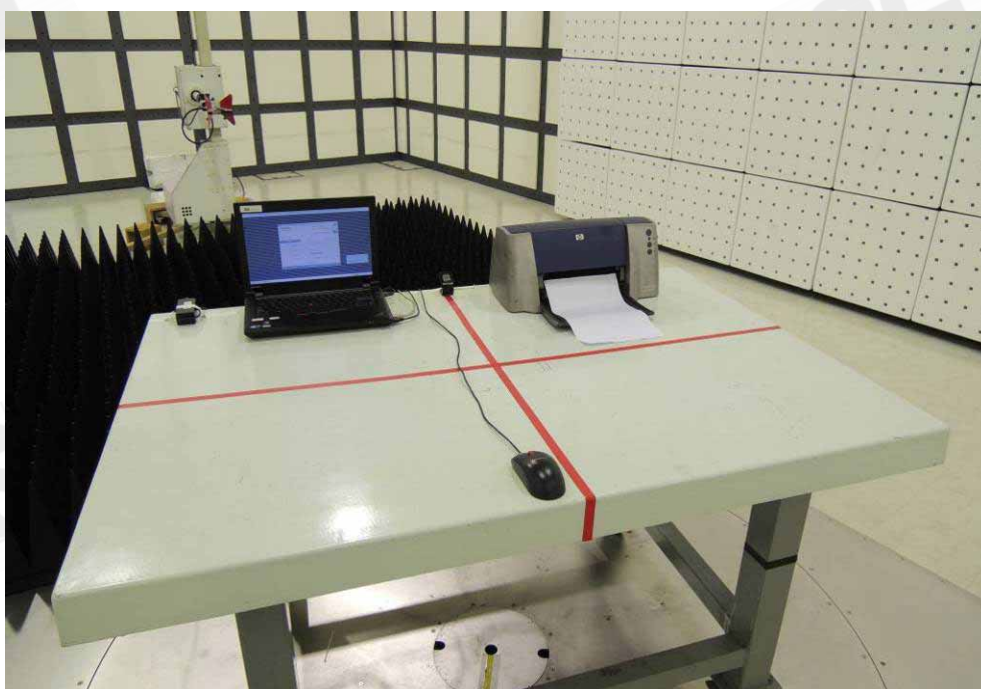
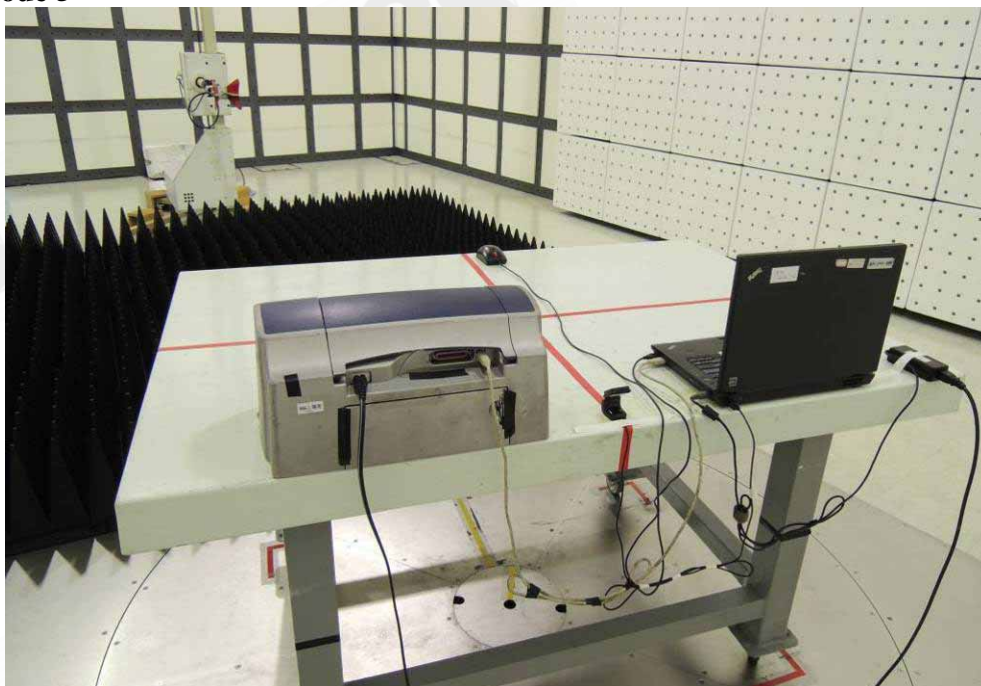
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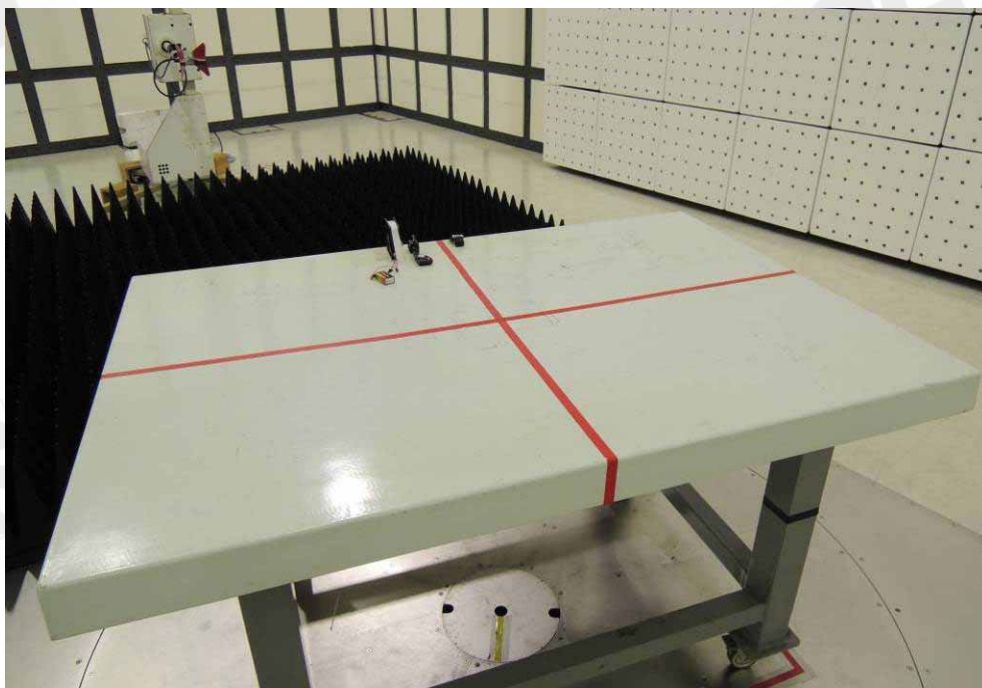
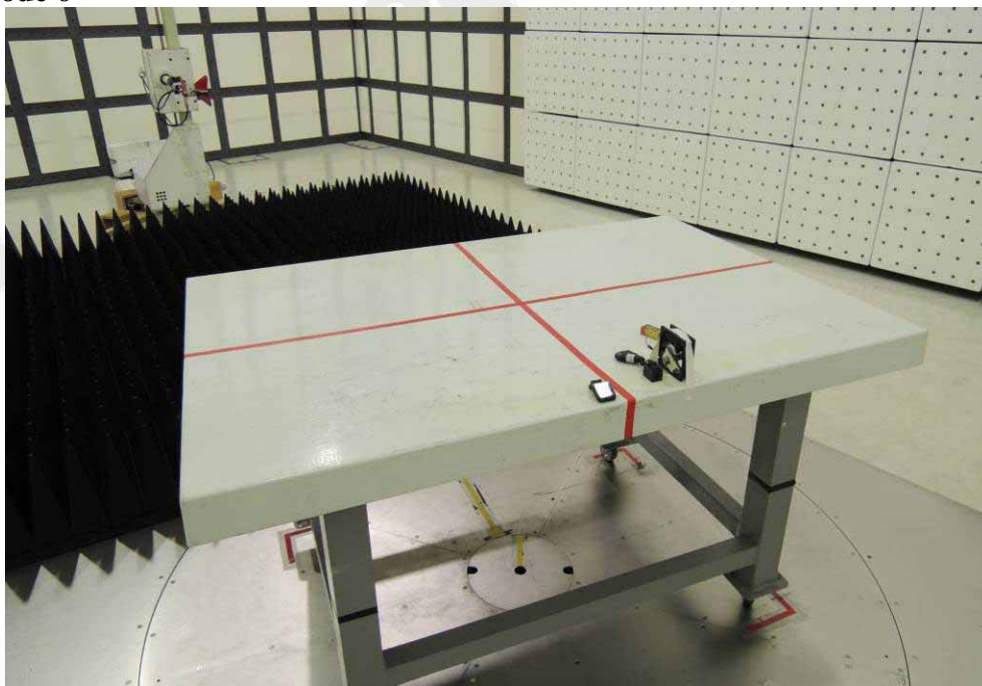
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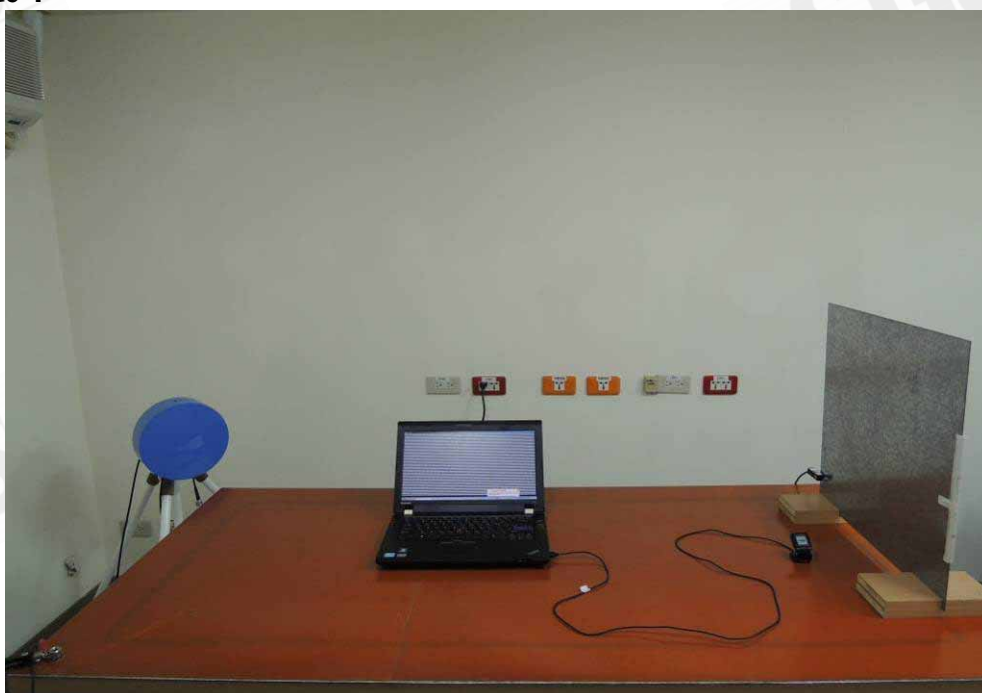
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### ESD Testing Set-up Test Mode 1~3



### Test Mode 4



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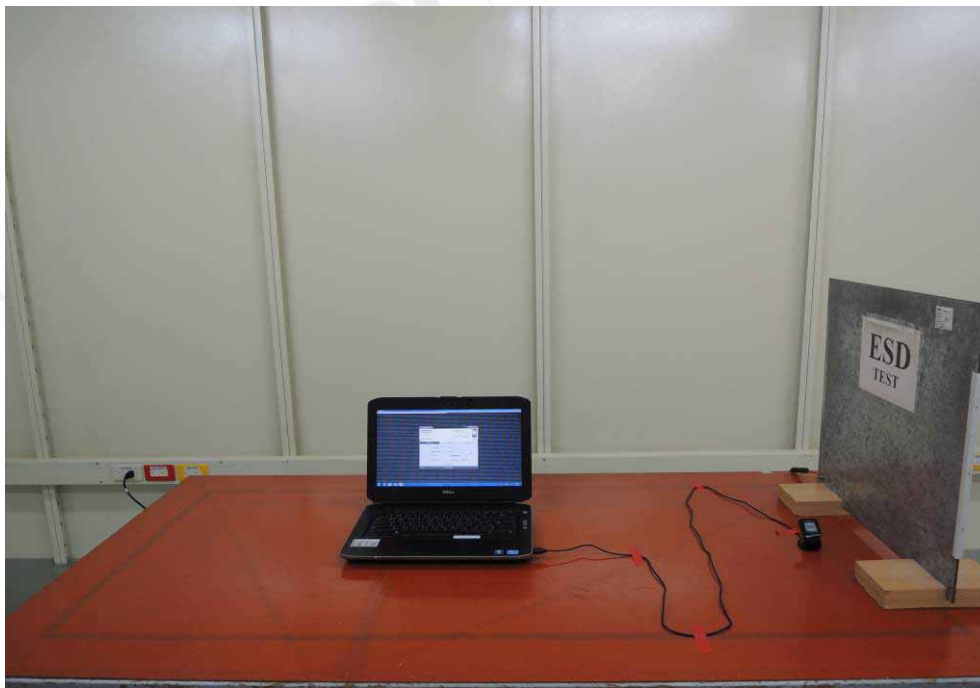
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## Test Mode 5



## Test Mode 6



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## RS Testing Set-up Test Mode 1~3



## Test Mode 4



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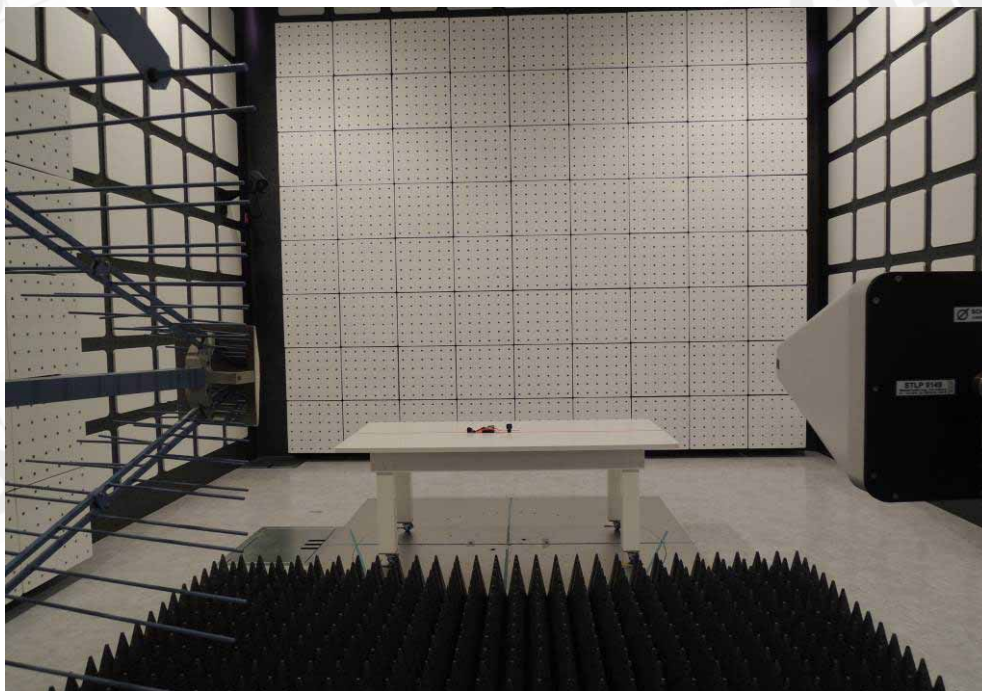
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**Test Mode 5****Test Mode 6**

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## APPENDIX 2

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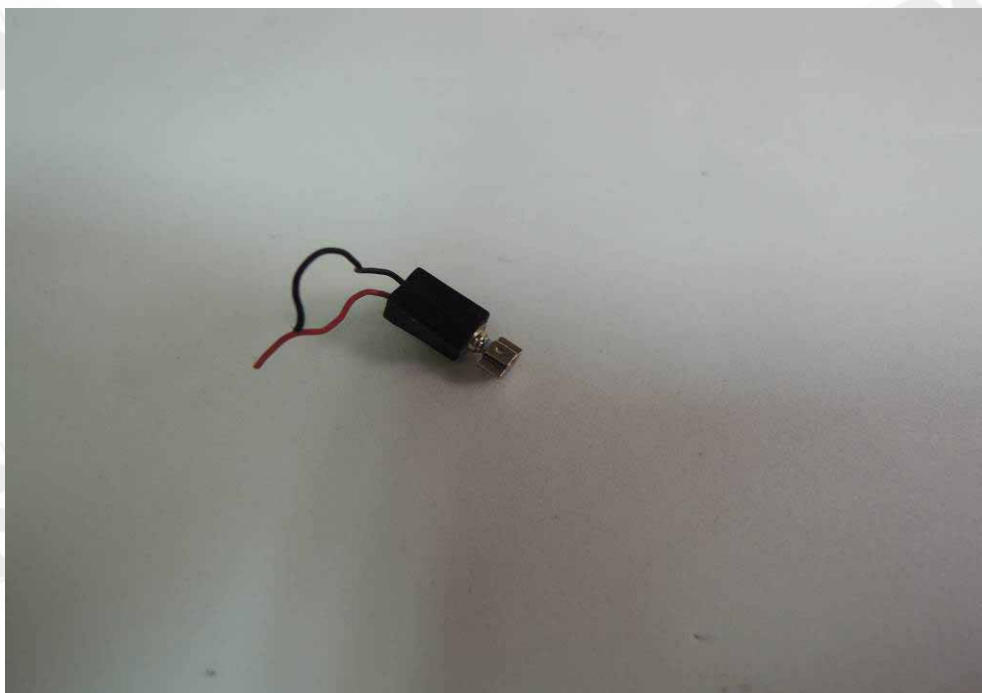
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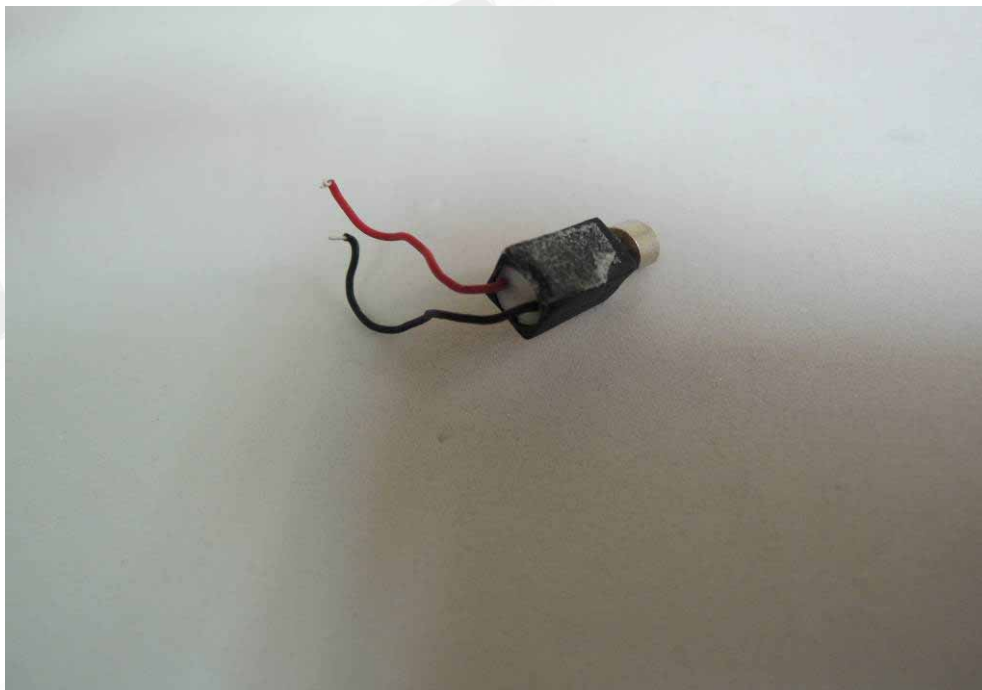
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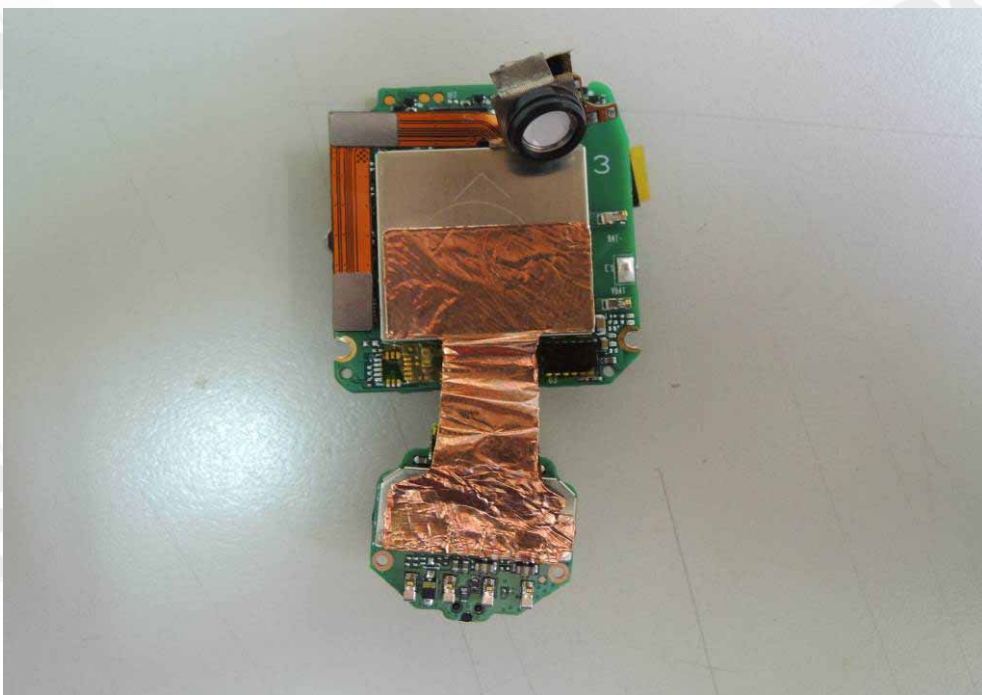
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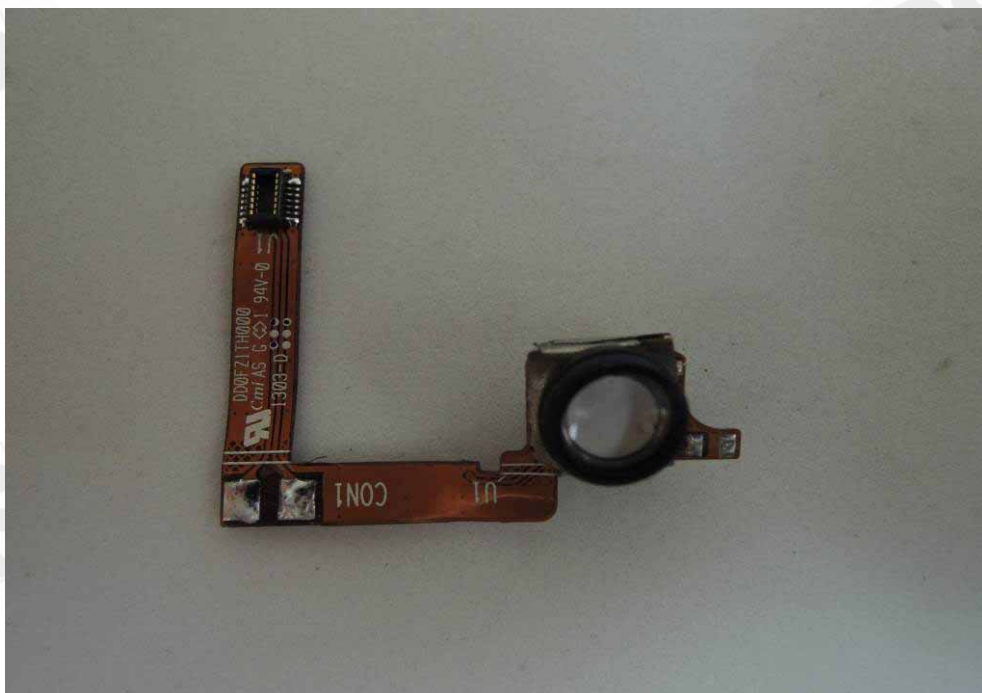
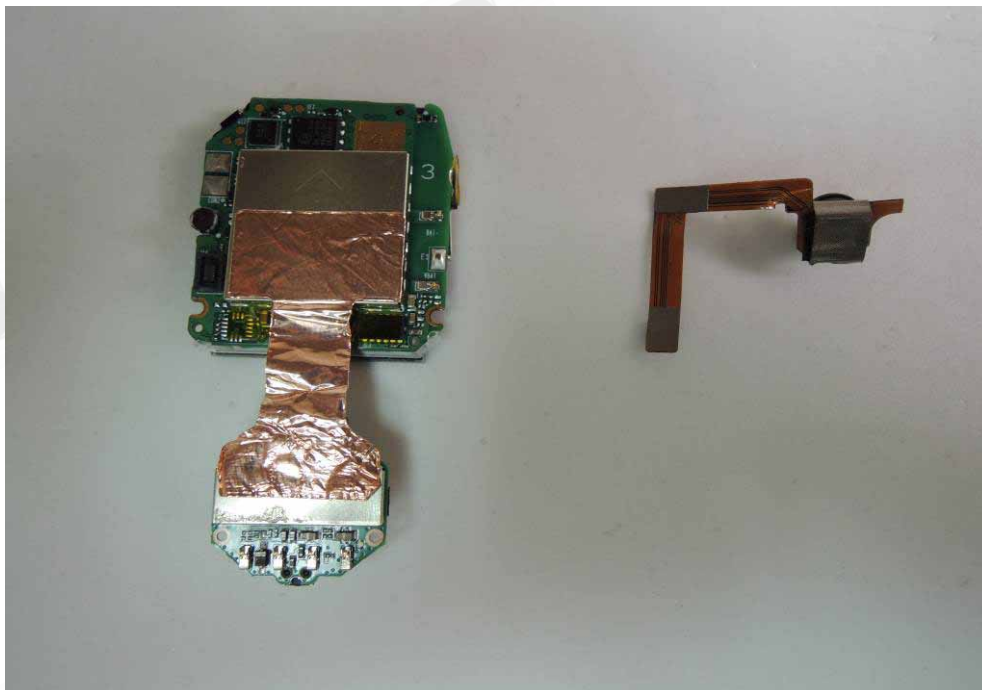
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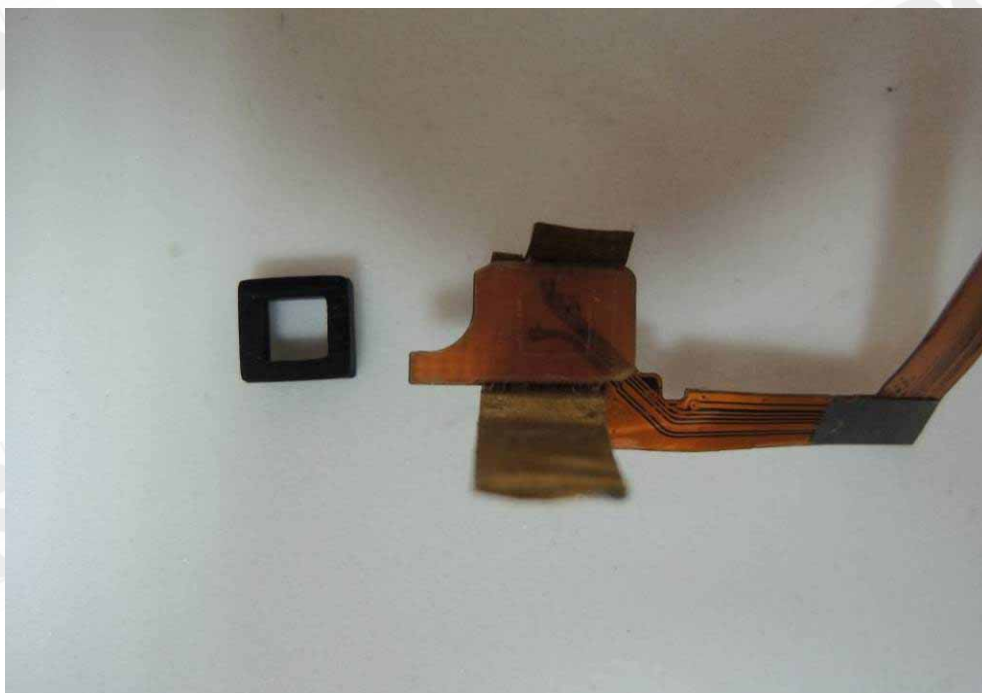
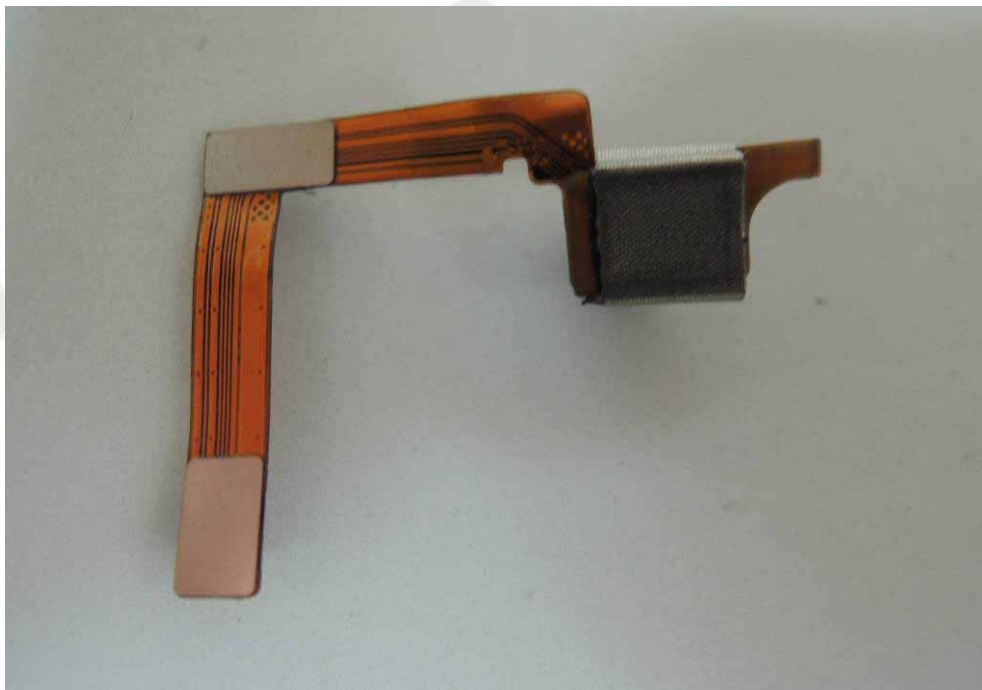
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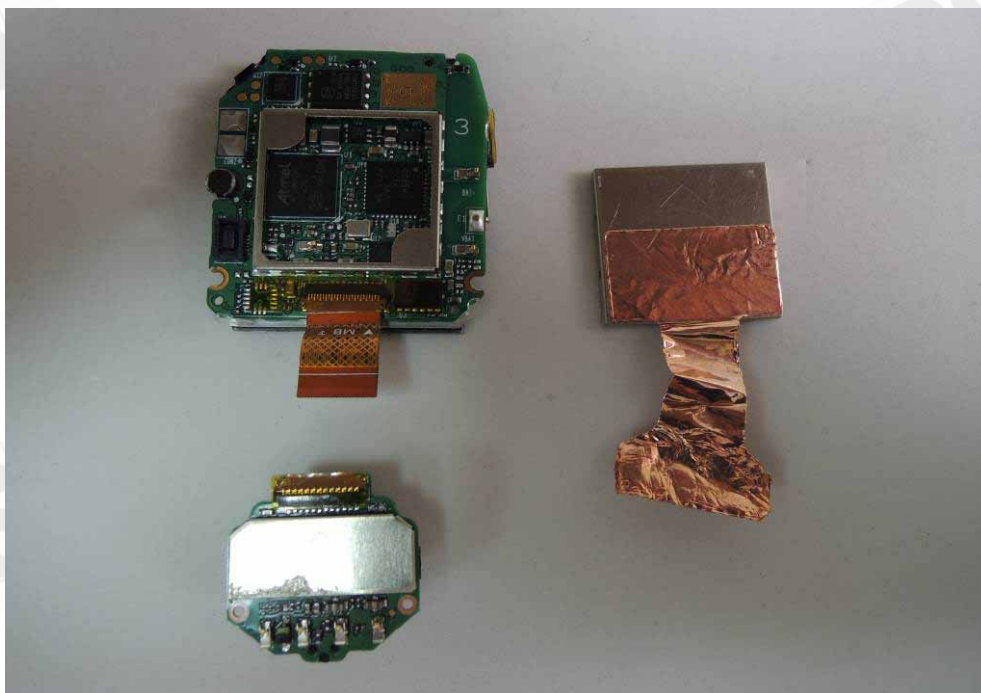
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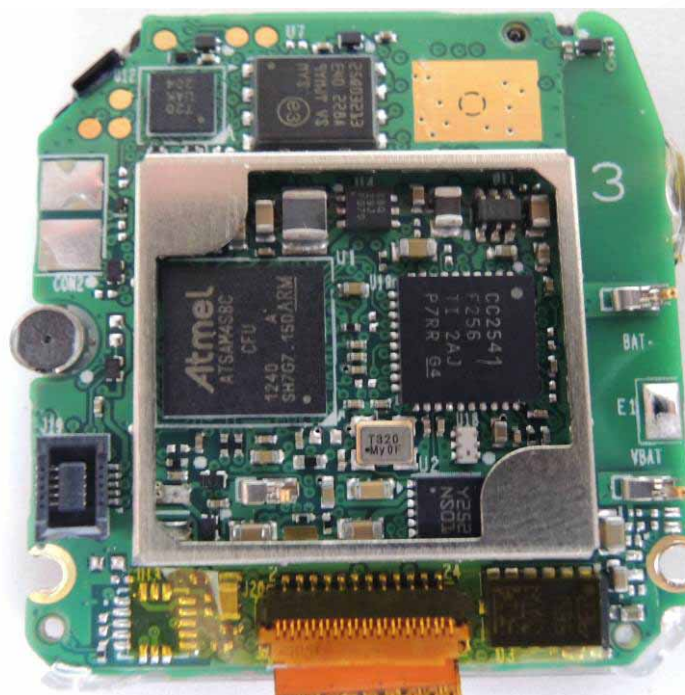
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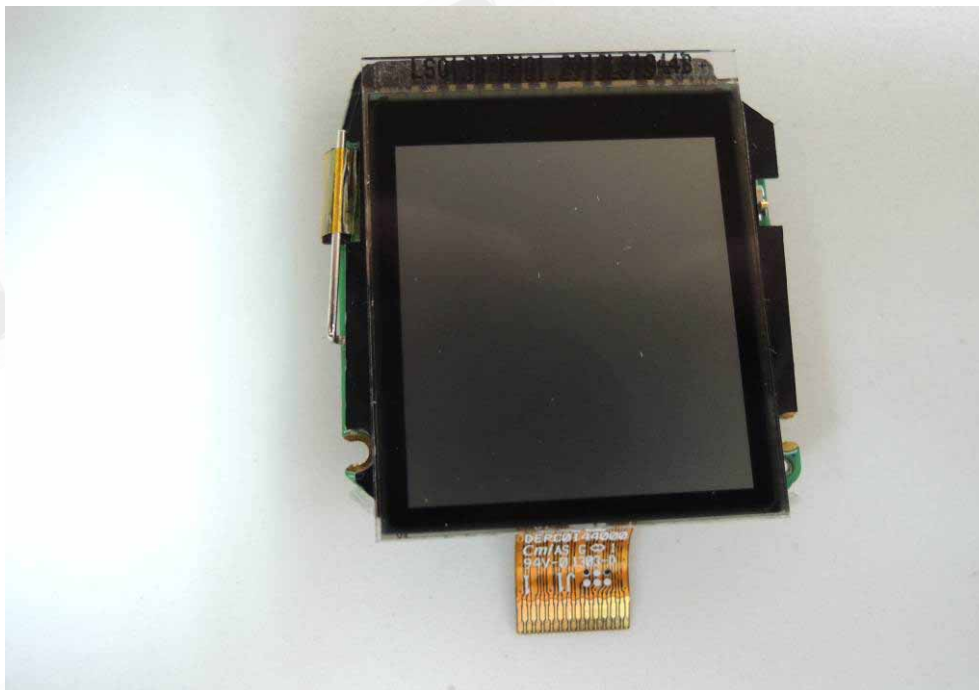
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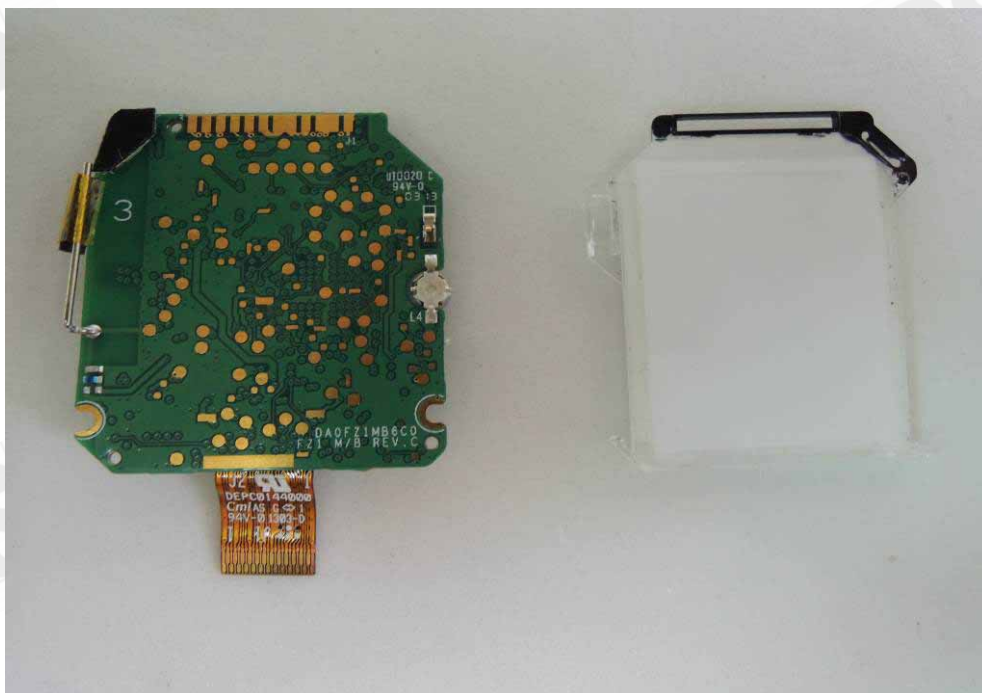
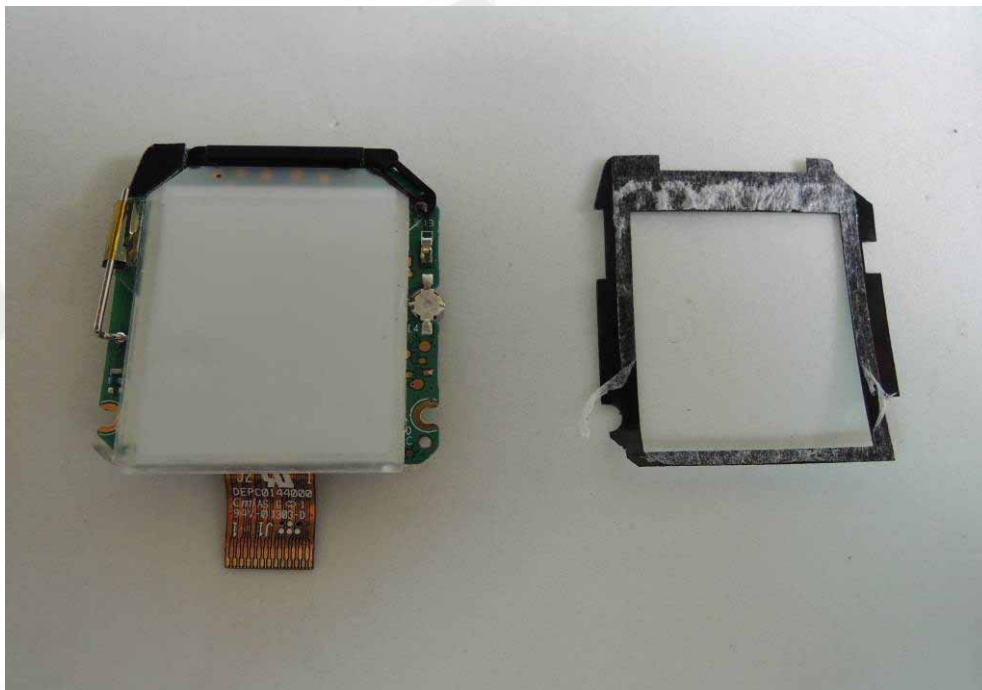
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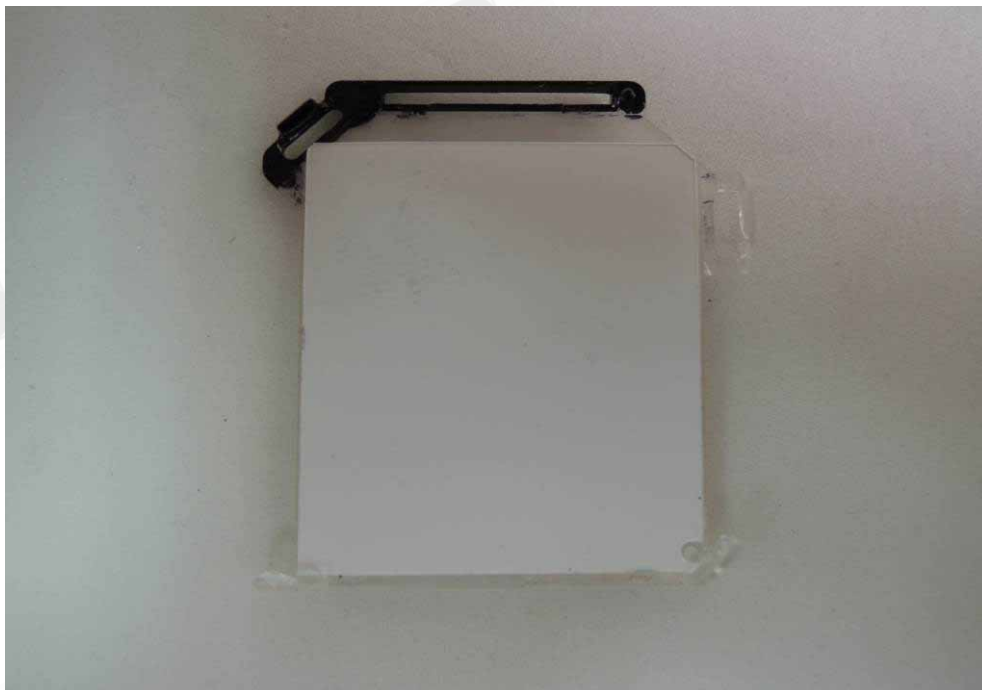
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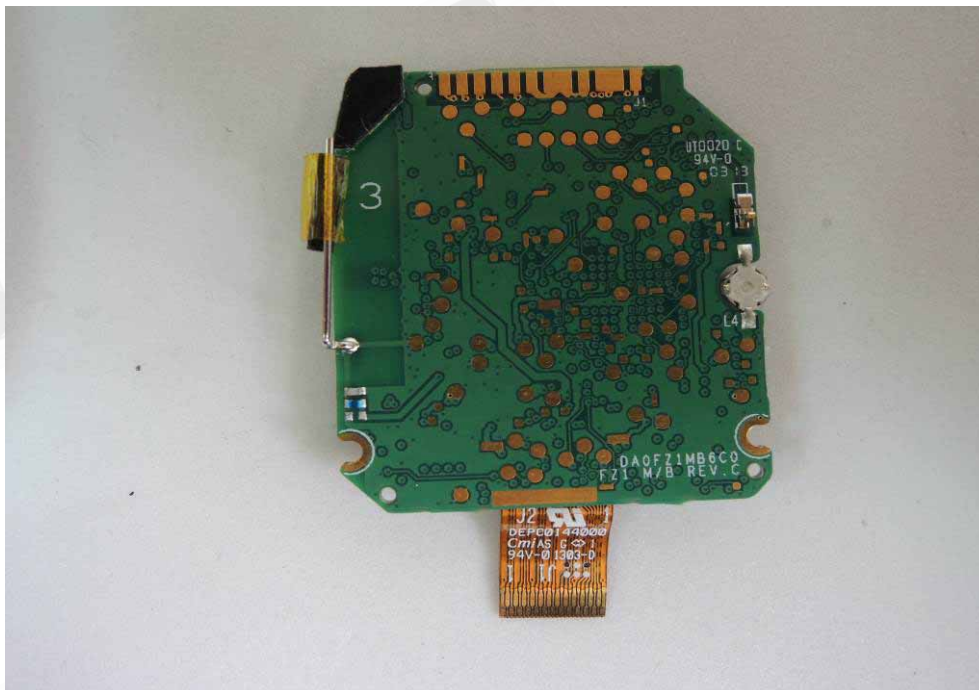
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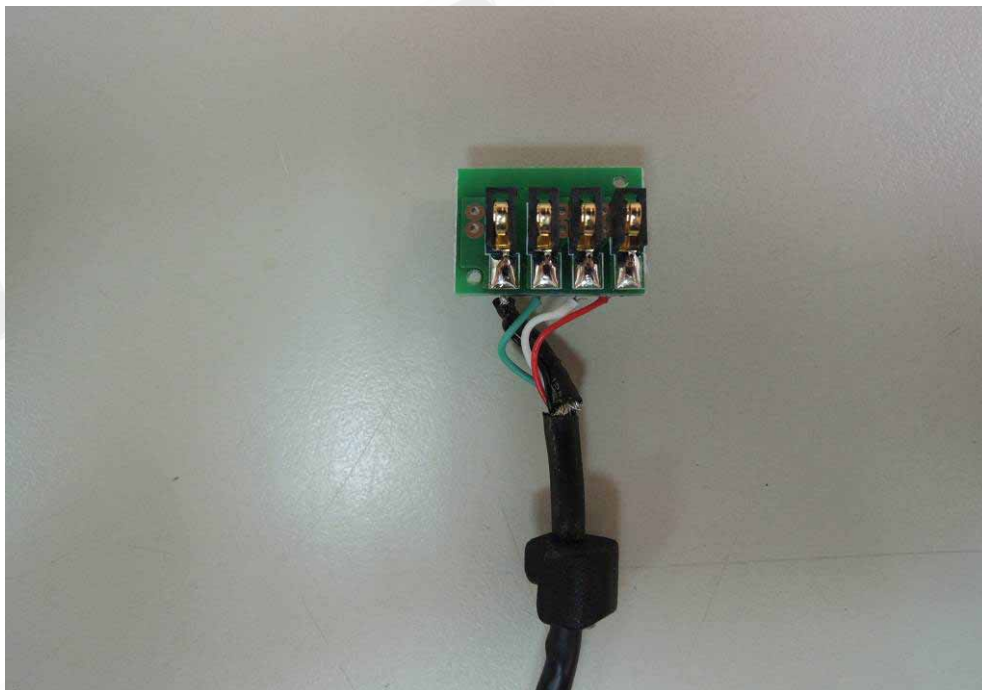
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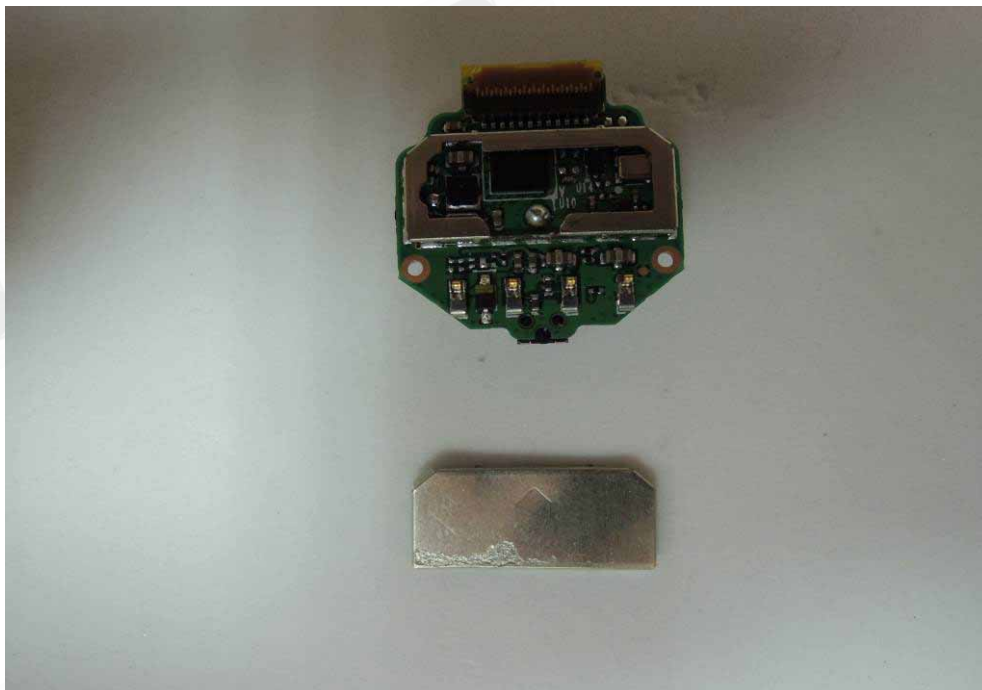
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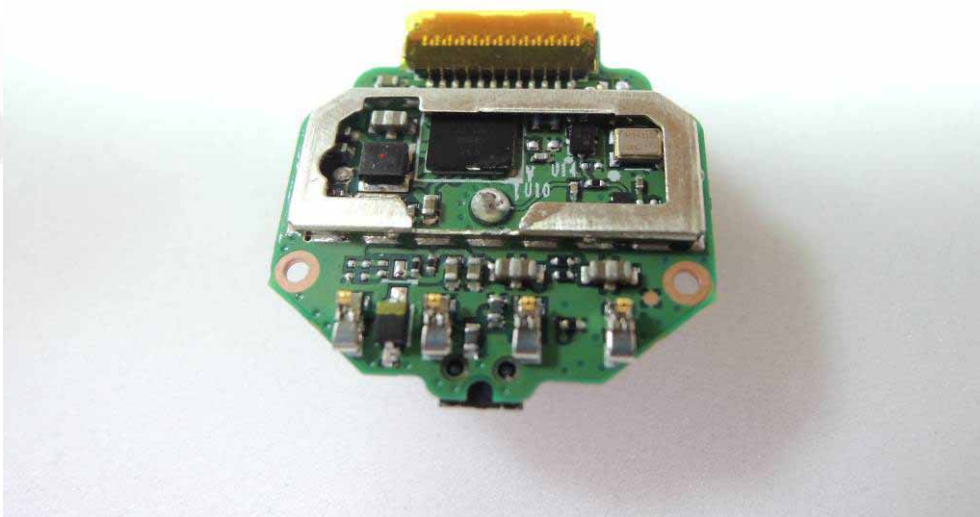
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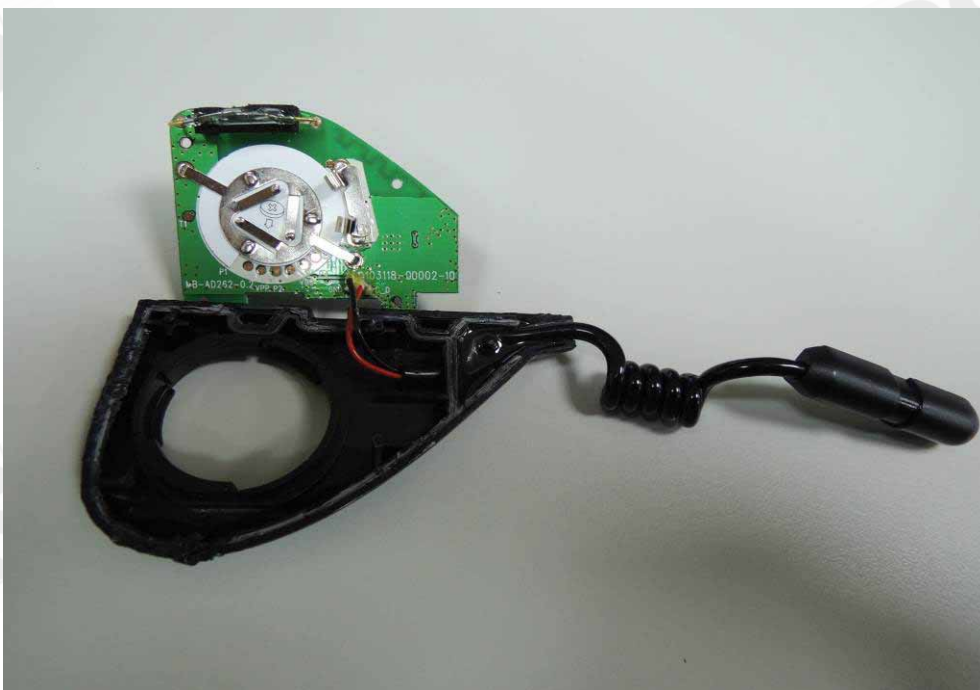


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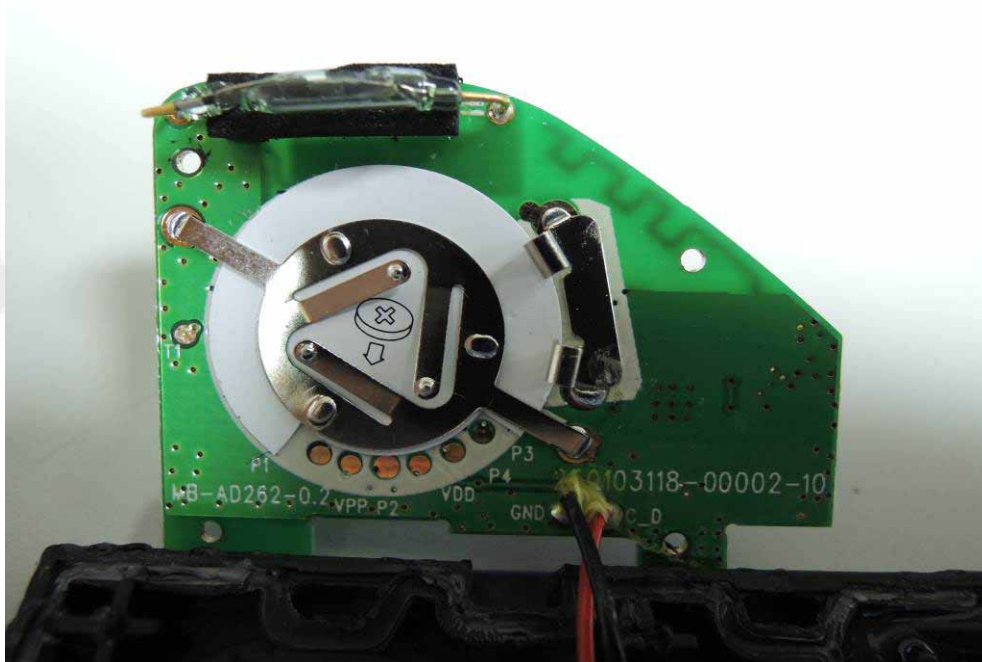
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