



SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION Co., Ltd.

## Verification of Conformity

Certificate No.: CTE13030066

R/C: 69585

Issued Date: Mar 28, 2013

The device, as described herewith, was tested pursuant to applicable test procedure and complies with the requirements of:

### ICES-003 (Limit CAN/CSA-CISPR 22-10)

The test results are traceable to the international or national standards.

**Applicant:** PROMETHEAN LIMITED

PROMETHEAN HOUSE, LOWER PHILIPS RD, BLACKBURN, LANCASHIRE BB1 5TH UNITED KINGDOM

**Manufacturer:** PROMETHEAN LIMITED

PROMETHEAN HOUSE, LOWER PHILIPS RD, BLACKBURN, LANCASHIRE BB1 5TH UNITED KINGDOM

**EUT Name:** ActivBoard Touch

**Model number:** PRM-AB688-01

**Listed Model(s):** PRM-AB678-01

**Laboratory:** Shenzhen Huatongwei International Inspection Co., Ltd.

FCC-Registration No.: 662850

IC-Registration No.: 5377A

A2LA-Lab Cert. No.: 2243.01

Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

Tel: 86-755-26748078 Fax: 86-755-26748089

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#### **Note:**

The certification is only valid for the equipment and configuration described, in conjunction with the test data detailed above.

For and on behalf of  
Shenzhen Huatongwei International Inspection Co., Ltd.

Authorized by:





TEST REPORT

ICES-003 (Limit CAN/CSA-CISPR 22-10)

Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement

Report Reference No..... : TRE13030066 R/C: 69585

Compiled by

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*Sam Wang*

Approved by

( position+printed name+signature)..: Manager Tony Jiang

*Tony Jiang*

Date of issue..... : Mar 28, 2013

Testing Laboratory Name..... : Shenzhen Huatongwei International Inspection Co., Ltd.

Address..... : Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

Testing location/ procedure..... : Full application of Harmonised standards   
Partial application of Harmonised standards   
Other standard testing methods

Applicant's name..... : PROMETHEAN LIMITED

Address..... : PROMETHEAN HOUSE, LOWER PHILIPS RD,  
BLACKBURN,LANCASHIRE BB1 5TH UNITED KINGDOM

Test specification:

Standard..... : ICES-003 (Limit CAN/CSA-CISPR 22-10)

Non-standard test method..... : /

Test Report Form No..... : HTWEMCIC\_1A

TRF Originator..... : Shenzhen Huatongwei International Inspection Co., Ltd.

Master TRF..... : Dated 2006-06

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Test item description..... : ActivBoard Touch

Manufacturer..... : PROMETHEAN LIMITED

Model/Type reference..... : PRM-AB688-01

Listed Model..... : PRM-AB678-01

Ratings..... : DC 5V 0.35A 1.75W

Result..... : Positive



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## 1. TEST STANDARDS

The tests were performed according to following standards:

[ICES-003 \(Limit CAN/CSA-CISPR 22-10\)](#) Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement.

## 2. SUMMARY

### 2.1. General Remarks

Date of receipt of test sample : Mar 16, 2013

Testing commenced on : Mar 16, 2013

Testing concluded on : Mar 26, 2013

### 2.2. Equipment Under Test

#### Power supply system utilised

Power supply voltage :  230V / 50 Hz                       115V / 60Hz  
 12 V DC                                       24 V DC  
 Other (specified in blank below)

DC 5V

### 2.3. Short description of the Equipment under Test (EUT)

The EUT is a ActivBoard Touch. PRM-AB688-01 and PRM-AB678-01 circuit is the same, only the size is different, PRM-AB688-01 is 88 inches, PRM-AB678-01 is 78 inches. All tests were conducted on Model PRM-AB688-01, Radiated Emission test were conducted on Model PRM-AB678-01.

Series No.: Prototype

### 2.4. EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

Test program (customer specific)

Emissions tests.....: According to ICES-003 (Limit CAN/CSA-CISPR 22-10), searching for the highest disturbance.

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### 2.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

■ - supplied by the manufacturer

o - supplied by the lab

o computer

Manufacturer : acer

M/N : ZK3

Length(m) : 5m

Shield : shielded

Detachable : Undetachable

■ USB Cable

### **3. TEST ENVIRONMENT**

#### **3.1. Address of the Test Laboratory**

Shenzhen Huatongwei International Inspection Co., Ltd.  
Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China  
Tel: 86-755-26748019 Fax: 86-755-26748089

#### **3.2. Test Facility**

The test facility is recognized, certified, or accredited by the following organizations:

##### **CNAS-Lab Code: L1225**

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: Mar. 01, 2012. Valid time is until February 28, 2015.

##### **A2LA-Lab Cert. No. 2243.01**

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until Sept 30, 2013.

##### **FCC-Registration No.: 662850**

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 662850, Renewal date Jul. 01, 2009, valid time is until Jun. 01, 2015.

##### **IC-Registration No.: 5377A**

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Jan. 25, 2011, valid time is until Jan. 24, 2014.

##### **ACA**

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

##### **NEMKO-Aut. No.: ELA125**

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10, the authorization is valid through July 07, 2013.

##### **VCCI**

The 3m Semi-anechoic chamber (12.2m × 7.95m × 6.7m) and Shielded Room (8m × 4m × 3m) of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-292. Date of Registration: Dec. 24, 2010. Valid time is until Dec. 23, 2013.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 19, 2015.

Telecommunication Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-1837. Date of Registration: May 07, 2010. Valid time is until May 06, 2013.

### DNV

Shenzhen Huatongwei International Inspection Co., Ltd. has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025 (2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until Dec. 24, 2013.

### 3.3. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	<u>22-25 ° C</u>
Humidity:	<u>40-54 %</u>
Atmospheric pressure:	<u>950-1050mbar</u>

### 3.4. Test Description

Emission Measurement		
Radiated Emission	ICES-003 (Limit CAN/CSA-CISPR 22-10)	PASS
Conducted Disturbance	ICES-003 (Limit CAN/CSA-CISPR 22-10)	PASS

The measurement uncertainty is not included in the test result.

### 3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.65dB	(1)
Conducted Disturbance	0.15~30 MHz	3.42dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



### 3.6. Equipments Used during the Test

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ULTRA-BROADBAND ANTENNA	ROHDE & SCHWARZ	HL562	100015	2012/06
2	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESI 26	100009	2012/10
3	RF TEST PANEL	ROHDE & SCHWARZ	TS / RSP	335015/ 0017	2012/10
4	TURNTABLE	ETS	2088	2149	2012/10
5	ANTENNA MAST	ETS	2075	2346	2012/10
6	EMI TEST SOFTWARE	ROHDE & SCHWARZ	ESK1	N/A	2012/10

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100106	2012/10
2	Artificial Mains	ROHDE & SCHWARZ	ESH2-Z5	100028	2012/10
3	Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	100044	2012/10
4	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2012/10

## 4. TEST CONDITIONS AND RESULTS

### 4.1. Radiated Emission

For test instruments and accessories used see section 3.6.

#### 4.1.1. Description of the test location

Test location: Shielded room No. 4

#### 4.1.2. Limits of disturbance(CLASS B)

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dB $\mu$ V/m)
30 ~ 230	3	40
230 ~ 1000	3	47

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

#### 4.1.3. Description of the test set-up

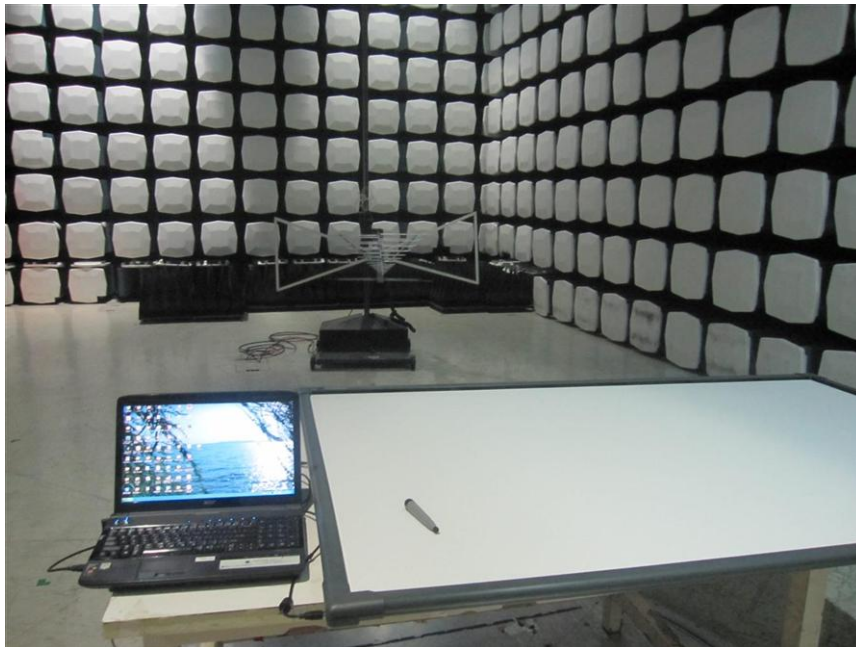
##### 4.1.3.1. Operating Condition

The EUT is turned on during the test, and the results of the maximum emanation are recorded.

##### 4.1.3.2. Test Configuration and Procedure

EUT is tested in Semi-Anechoic Chamber. EUT is placed on a nonmetal table which is 0.8 meter above a grounded turntable. The turntable can rotate 360 degrees to determine the azimuth of the maximum emission level. EUT is set 3 meters away from the center of receiving antenna, and the antenna can move up and down from 1 to 4 meter to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna are set on the test.

##### 4.1.3.3. Photos of the test set-up



#### 4.1.4. Test result

The requirements are **Fulfilled**

Band Width: 120kHz

Frequency Range: 30MHz to 1000MHz

**Remarks:** The limits are kept. For detailed results, please see the following page(s).

Margin=limit-level

Level=read values+transducer

Transducer=antenna factor+pre-amplifier factor+cable loss

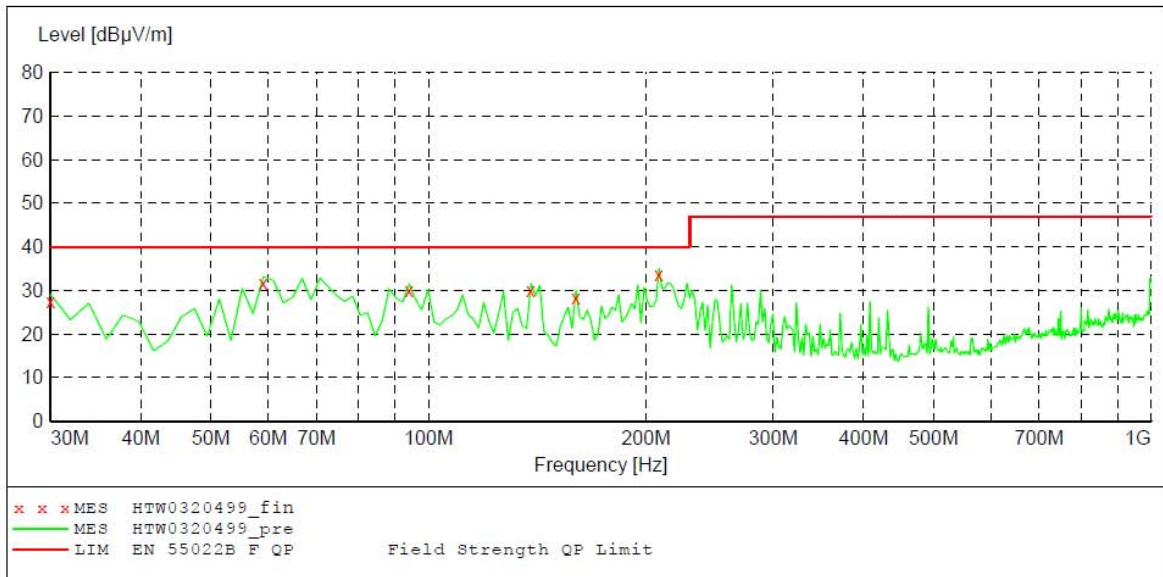
**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**

**RADIATED EMISSION TEST ICES-003**

EUT: ActivBoard Touch M/N:PRM-AB678-01  
 Manufacturer: PROMETHEAN LIMITED  
 Operating Condition: ON  
 Test Site: 3M CHAMBER  
 Operator: Chang Xu  
 Test Specification: DC 5V  
 Comment:  
 Start of Test: 3/21/2013 / 6:32:21AM

**SCAN TABLE: "test (30M-1G)"**

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	MaxPeak	Coupled	120 kHz	HL562
30.0 MHz	1.0 GHz				



**MEASUREMENT RESULT: "HTW0320499\_fin"**

3/21/2013 7:00AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	27.00	-7.8	40.0	13.0	QP	300.0	160.00	HORIZONTAL
59.100000	31.20	-22.0	40.0	8.8	QP	300.0	5.00	HORIZONTAL
94.020000	29.50	-16.9	40.0	10.5	QP	300.0	264.00	HORIZONTAL
138.640000	29.70	-18.3	40.0	10.3	QP	300.0	48.00	HORIZONTAL
159.980000	28.00	-19.8	40.0	12.0	QP	300.0	73.00	HORIZONTAL
208.480000	33.20	-17.9	40.0	6.8	QP	100.0	125.00	HORIZONTAL

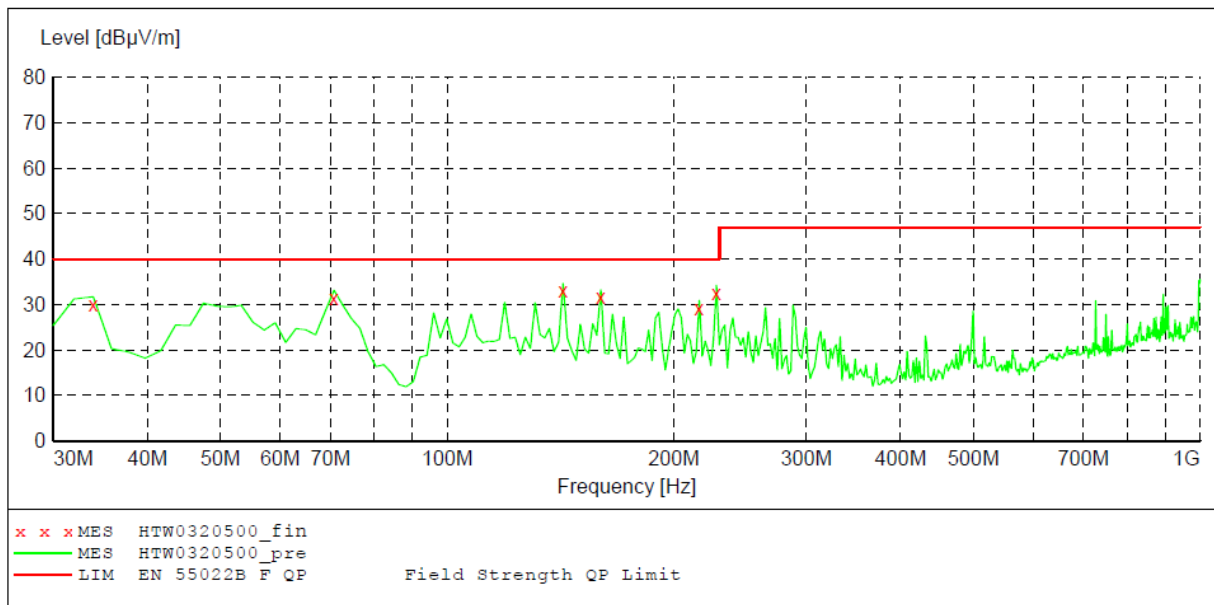
**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**

**RADIATED EMISSION TEST ICES-003**

EUT: ActivBoard Touch M/N:PRM-AB678-01  
 Manufacturer: PROMETHEAN LIMITED  
 Operating Condition: ON  
 Test Site: 3M CHAMBER  
 Operator: Chang Xu  
 Test Specification: DC 5V  
 Comment:  
 Start of Test: 3/21/2013 / 7:04:41AM

**SCAN TABLE: "test (30M-1G)"**

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency				
30.0 MHz	1.0 GHz	MaxPeak	Coupled	120 kHz	HL562



**MEASUREMENT RESULT: "HTW0320500\_fin"**

3/21/2013 7:32AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
33.880000	29.70	-9.9	40.0	10.3	QP	100.0	125.00	VERTICAL
70.740000	31.10	-20.4	40.0	8.9	QP	100.0	157.00	VERTICAL
142.520000	32.70	-18.9	40.0	7.3	QP	100.0	321.00	VERTICAL
159.980000	31.20	-19.8	40.0	8.8	QP	100.0	164.00	VERTICAL
216.240000	28.90	-17.6	40.0	11.1	QP	100.0	271.00	VERTICAL
227.880000	32.20	-16.8	40.0	7.8	QP	100.0	271.00	VERTICAL

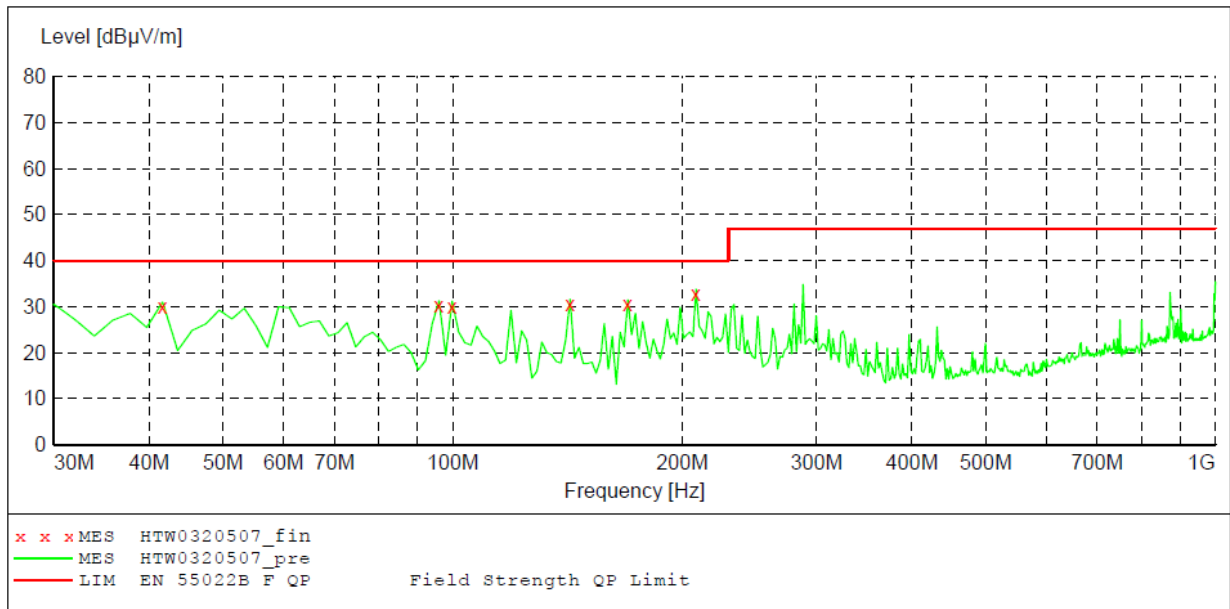
**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**

**RADIATED EMISSION TEST ICES-003**

EUT: ActivBoard Touch M/N:PRM-AB688-01  
 Manufacturer: PROMETHEAN LIMITED  
 Operating Condition: ON  
 Test Site: 3M CHAMBER  
 Operator: Chang Xu  
 Test Specification: DC 5V  
 Comment:  
 Start of Test: 3/21/2013 / 8:33:53AM

**SCAN TABLE: "test (30M-1G)"**

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	120 kHz	HL562



**MEASUREMENT RESULT: "HTW0320507\_fin"**

3/21/2013 9:00AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
41.640000	30.00	-14.4	40.0	10.0	QP	300.0	214.00	HORIZONTAL
95.960000	30.30	-16.8	40.0	9.7	QP	300.0	279.00	HORIZONTAL
99.840000	30.20	-16.8	40.0	9.8	QP	300.0	259.00	HORIZONTAL
142.520000	30.60	-18.9	40.0	9.4	QP	300.0	86.00	HORIZONTAL
169.680000	30.50	-20.4	40.0	9.5	QP	300.0	65.00	HORIZONTAL
208.480000	32.80	-17.9	40.0	7.2	QP	100.0	107.00	HORIZONTAL

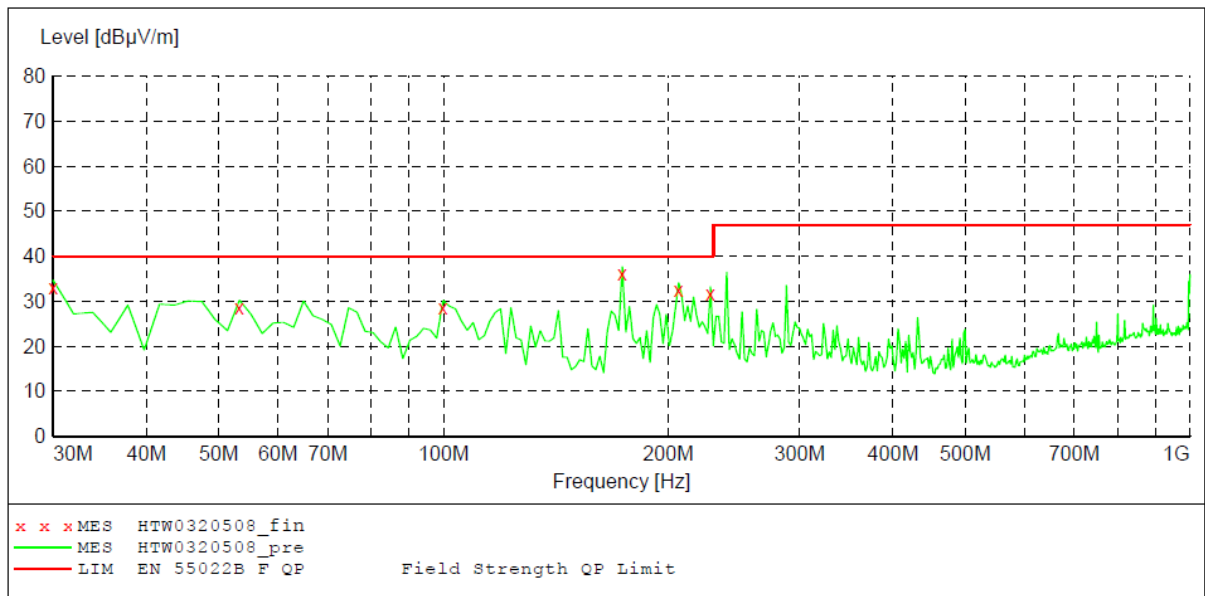
**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO., LTD**

**RADIATED EMISSION TEST ICES-003**

EUT: ActivBoard Touch M/N:PRM-AB688-01  
 Manufacturer: PROMETHEAN LIMITED  
 Operating Condition: ON  
 Test Site: 3M CHAMBER  
 Operator: Chang Xu  
 Test Specification: DC 5V  
 Comment:  
 Start of Test: 3/21/2013 / 9:03:40AM

**SCAN TABLE: "test (30M-1G)"**

Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	120 kHz	HL562



**MEASUREMENT RESULT: "HTW0320508\_fin"**

3/21/2013 9:33AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	32.60	-7.8	40.0	7.4	QP	300.0	360.00	VERTICAL
53.280000	28.20	-20.2	40.0	11.8	QP	300.0	225.00	VERTICAL
99.840000	28.10	-16.8	40.0	11.9	QP	300.0	259.00	VERTICAL
173.560000	35.70	-19.9	40.0	4.3	QP	100.0	72.00	VERTICAL
206.540000	32.10	-18.0	40.0	7.9	QP	100.0	138.00	VERTICAL
227.880000	31.20	-16.8	40.0	8.8	QP	100.0	252.00	VERTICAL

## 4.2. Conducted Disturbance

For test instruments and accessories used see section 3.6.

### 4.2.1. Description of the test location

Test location: Shielded room No. 3

### 4.2.2. Limits of disturbance

Limit of Conducted Disturbance at Mains Ports (Class B)

Frequency Range (MHz)	Limits (dBuV)	
	Quasi-Peak	Average
0.150~0.500	66~56	56~46
0.500~5.000	56	46
5.000~30.000	60	50

Note: The tighter limit shall apply at the edge between two frequency bands.

### 4.2.3. Description of the test set-up

#### 4.2.3.1. Operating Condition

The EUT is turned on during the test, and the results of the maximum emanation are recorded.

#### 4.2.3.2. Test Procedure

EUT is placed on a nonmetal table 0.8 meter above the grounded reference plane. The power line of the EUT is connected to the LISN which is connected to receiver by coaxial line, and then disturbance signals of the neutral line and live line can be detected by the receiver.

## 4.2.3.3. Photos of the test set-up



## 4.2.4. Test result

The requirements are **Fulfilled**

Band Width: 9kHz

Frequency Range: 150kHz to 30MHz

**Remarks:** The limits are kept. For detailed results, please see the following page(s).

Margin=limit-level

Level=read value+transducer

Transducer=insertion loss of LISN+cable loss+insertion loss of pulse limiter



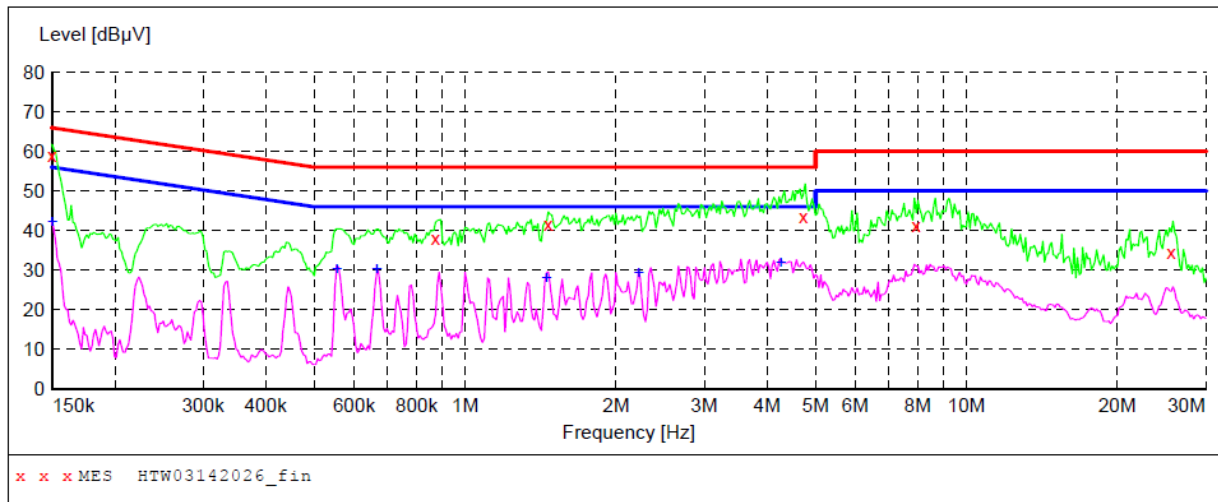
*Shenzhen Huatongwei International Inspection CO.,Ltd*

**Voltage Mains Test ICES-003**

EUT: ActivBoard Touch M/N:PRM-AB688-01  
 Manufacturer: PROMETHEAN LIMITED  
 Operating Condition: ON  
 Test Site: 2# SHIELDED ROOM  
 Operator: Zhou  
 Test Specification: DC 5V  
 Comment:  
 Start of Test: 3/18/2013 / 9:22:14AM

**SCAN TABLE: "Voltage (9K-30M)FIN"**

Short Description: 150K-30M Voltage



**MEASUREMENT RESULT: "HTW03142026\_fin"**

3/18/2013 9:28AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	58.90	9.9	66	7.1	QP	L1	GND
0.872706	38.00	9.9	56	18.0	QP	L1	GND
1.464876	41.70	10.0	56	14.3	QP	L1	GND
4.726080	43.70	10.1	56	12.3	QP	L1	GND
7.932970	41.20	10.3	60	18.8	QP	L1	GND
25.593780	34.40	10.9	60	25.6	QP	L1	GND

**MEASUREMENT RESULT: "HTW03142026\_fin2"**

3/18/2013 9:28AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	42.40	9.9	56	13.6	AV	L1	GND
0.554138	30.40	9.9	46	15.6	AV	L1	GND
0.665590	30.30	9.9	46	15.7	AV	L1	GND
1.453250	28.10	10.0	46	17.9	AV	L1	GND
2.216925	29.30	10.1	46	16.7	AV	L1	GND
4.261028	31.80	10.1	46	14.2	AV	L1	GND

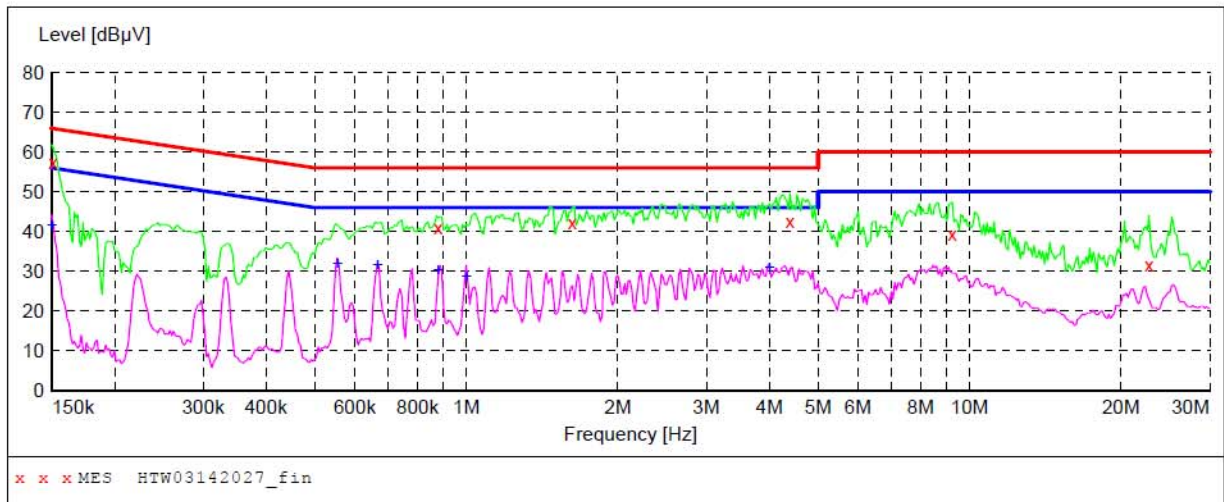
**Shenzhen Huatongwei International Inspection CO.,Ltd**

**Voltage Mains Test ICES-003**

EUT: ActivBoard Touch M/N:PRM-AB688-01  
 Manufacturer: PROMETHEAN LIMITED  
 Operating Condition: ON  
 Test Site: 2# SHIELDED ROOM  
 Operator: Zhou  
 Test Specification: DC 5V  
 Comment:  
 Start of Test: 3/18/2013 / 9:29:16AM

**SCAN TABLE: "Voltage (9K-30M)FIN"**

Short Description: 150K-30M Voltage



**MEASUREMENT RESULT: "HTW03142027\_fin"**

3/18/2013 9:35AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.151200	57.40	9.9	66	8.5	QP	N	GND
0.879680	41.00	9.9	56	15.0	QP	N	GND
1.624760	42.20	10.1	56	13.8	QP	N	GND
4.399023	42.50	10.1	56	13.5	QP	N	GND
9.229671	39.30	10.4	60	20.7	QP	N	GND
22.710482	31.70	10.9	60	28.3	QP	N	GND

**MEASUREMENT RESULT: "HTW03142027\_fin2"**

3/18/2013 9:35AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	41.50	9.9	56	14.5	AV	N	GND
0.554138	32.00	9.9	46	14.0	AV	N	GND
0.665592	31.50	9.9	46	14.5	AV	N	GND
0.879680	30.30	9.9	46	15.7	AV	N	GND
0.999301	28.60	10.0	46	17.4	AV	N	GND
3.997879	31.00	10.1	46	15.0	AV	N	GND

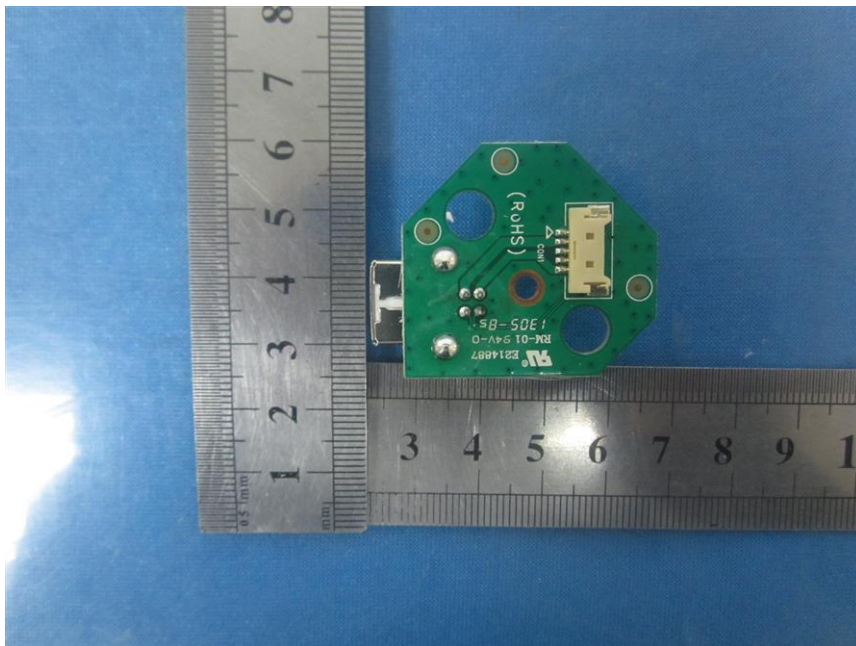
## 5. External and Internal Photos of the EUT

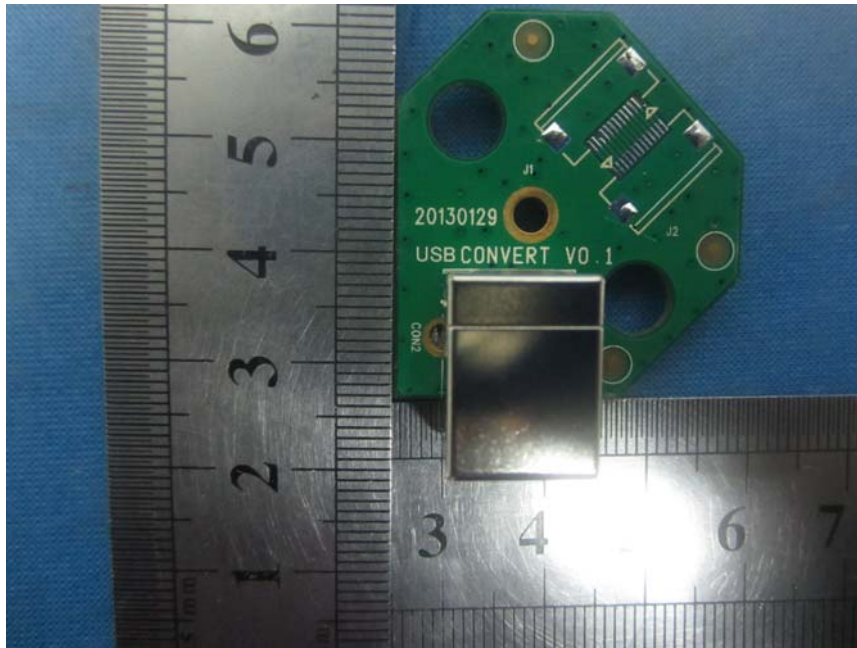
### 5.1. External and Internal photos of the EUT



## 5.2. Internal photos of the EUT



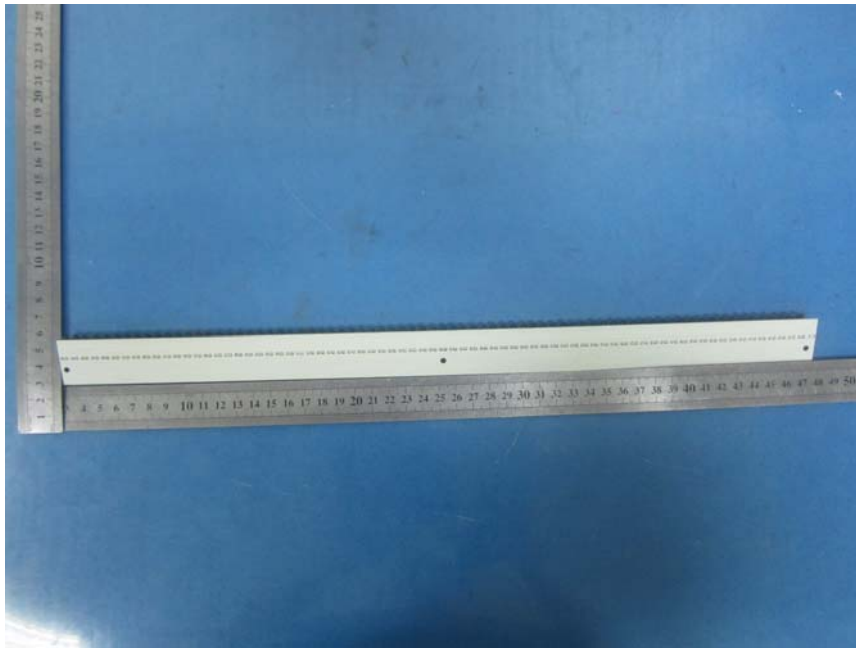






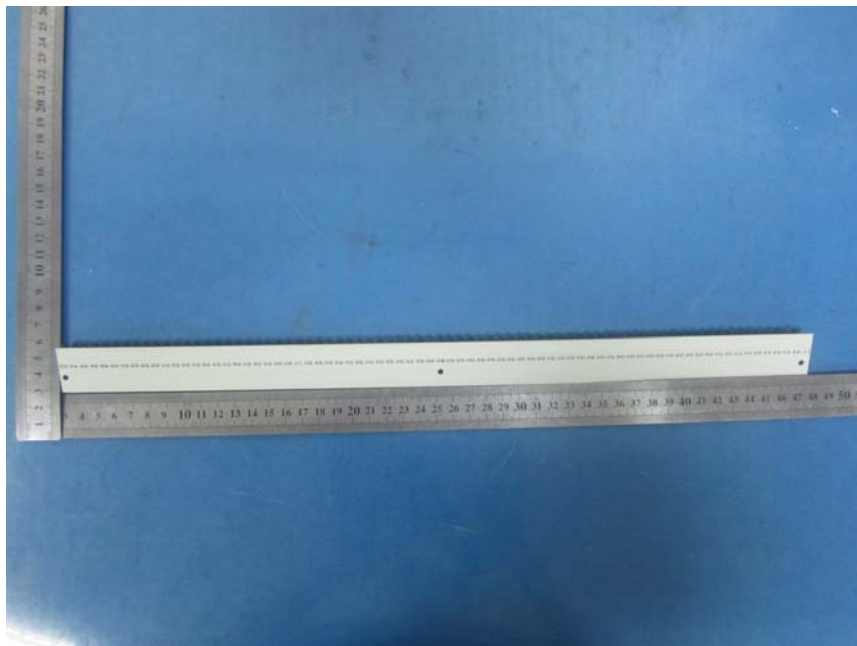












.....End of Report.....