

# ***FCC TEST REPORT***

**FCC ID** : ZQXAS-317191TLG  
**Applicant** : Suzhou Switek Electronics & Technology Co., Ltd.  
**Address** : No.5 Linggang Industry Zone, Luzhi Town, Wuzhong District,  
Suzhou City, Jiangsu, China

**Equipment Under Test (EUT) :**

Product Name : CAT5 LCD CONTROL PLATFORM  
Model No. : AS-3104TLG, AS-3108TLG, AS-3116TLG,  
AS-7104TLG, AS-7108TLG, AS-7116TLG,  
AS-9104TLG, AS-9108TLG, AS-9116TLG

**Standards** : FCC CFR47 Part 15 Section 15.109:2009

**Date of Test** : October 24 ~ November 10, 2011

**Date of Issue** : November 18, 2011

**Test Engineer** : Hunk yan / Engineer



**Reviewed By** : Philo zhong / Manager



<b>Test Result</b>	<b>: PASS</b>
--------------------	---------------

**Prepared By:**

**Waltek Services (Shenzhen) Co., Ltd.**

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✧ The sample detailed above has been tested to the requirements of Council Directives ANSI C63.4:2003. The test results have been reviewed against the Directives above and found to meet their essential requirements.

## 2 Test Summary

Test Item	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission (9kHz to 2GHz)	FCC Part 15.109	ANSI C63.4: 2003	Class B	PASS
Conducted Emission (150KHz to 30MHz)	FCC Part 15.107	ANSI C63.4: 2003	Class B	PASS

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### 3 Contents

	Page
<b>1 COVER PAGE</b> .....	<b>1</b>
<b>2 TEST SUMMARY</b> .....	<b>2</b>
<b>3 CONTENTS</b> .....	<b>3</b>
<b>4 GENERAL INFORMATION</b> .....	<b>4</b>
4.1 CLIENT INFORMATION.....	4
4.2 GENERAL DESCRIPTION OF E.U.T.....	4
4.3 DETAILS OF E.U.T.....	4
4.4 DESCRIPTION OF SUPPORT UNITS.....	4
4.5 STANDARDS APPLICABLE FOR TESTING .....	5
4.6 TEST FACILITY .....	5
4.7 TEST LOCATION .....	5
<b>5 EQUIPMENT USED DURING TEST</b> .....	<b>6</b>
<b>6 CONDUCTED EMISSION DATA</b> .....	<b>8</b>
6.1 E.U.T. OPERATION.....	8
6.2 EUT SETUP .....	9
6.3 CONDUCTED EMISSION TEST RESULT .....	9
6.4 PHOTOGRAPH – CONDUCTED EMISSION TEST SETUP .....	12
<b>7 RADIATION EMISSION DATA</b> .....	<b>13</b>
7.1 MEASUREMENT UNCERTAINTY .....	13
7.2 EUT SETUP .....	14
7.3 SPECTRUM ANALYZER SETUP .....	15
7.4 TEST PROCEDURE.....	16
7.5 CORRECTED AMPLITUDE & MARGIN CALCULATION.....	16
7.6 SUMMARY OF TEST RESULTS .....	16
7.7 PHOTOGRAPH – RADIATION EMISSION TEST SETUP .....	21
<b>8 PHOTOGRAPHS - CONSTRUCTIONAL DETAILS</b> .....	<b>23</b>
8.1 PRODUCT VIEW .....	23
8.2 EUT - APPEARANCE VIEW .....	23
8.3 EUT - OPEN VIEW 1 .....	24
8.4 PCB1 VIEW.....	25
8.5 PCB2 VIEW.....	26
8.6 EUT – OPEN VIEW 2 .....	27
8.7 PCB3 VIEW.....	28
8.8 PCB4 VIEW.....	31
8.9 PCB5 VIEW.....	32
8.10 PCB6 VIEW .....	33
8.11 DONGLE (PS/2) – APPEARANCE VIEW .....	34
8.12 DONGLE (PS/2) – OPEN VIEW .....	35
8.13 DONGLE (PS/2) – PCB VIEW.....	35
8.14 DONGLE (USB) – APPEARANCE VIEW.....	36
8.15 DONGLE (USB) – OPEN VIEW .....	37
8.16 DONGLE (USB) – PCB VIEW .....	37
8.17 ADAPTER - APPEARANCE VIEW.....	38
8.18 ADAPTER – OPEN VIEW.....	39
8.19 ADAPTER – PCB VIEW .....	40
<b>9 FCC LABEL</b> .....	<b>41</b>

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## 4 General Information

### 4.1 Client Information

**Applicant** : Suzhou Switek Electronics & Technology Co., Ltd.  
**Address of Applicant** : No.5 Linggang Industry Zone, Luzhi Town, Wuzhong District, Suzhou City, Jiangsu, China

**Manufacturer** : Suzhou Switek Electronics & Technology Co., Ltd.  
**Address of Manufacturer** : No.5 Linggang Industry Zone, Luzhi Town, Wuzhong District, Suzhou City, Jiangsu, China

### 4.2 General Description of E.U.T.

**Product Name** : CAT5 LCD CONTROL PLATFORM  
**Model No.** : AS-3104TLG, AS-3108TLG, AS-3116TLG, AS-7104TLG, AS-7108TLG, AS-7116TLG, AS-9104TLG, AS-9108TLG, AS-9116TLG  
**Difference Description** : All the models have the same controller circuit and similar appearance, only the size of LCD and the number of RJ45 port are different. On the basis of these we choose the model AS-3116TLG, AS-7116TLG, AS-9116TLG as the test sample. Please refer to the table below for more information. In order to match with the different PC's mouse and keyboard interface, there are two type of Dongle you could choose. One is with USB interface and another is with PS/2 interface.

Model No.	Number of VGA port	Size of LCD
AS-3104TLG	4	15''
AS-3108TLG	8	
AS-3116TLG	16	
AS-7104TLG	4	17''
AS-7108TLG	8	
AS-7116TLG	16	
AS-9104TLG	4	19''
AS-9108TLG	8	
AS-9116TLG	16	

### 4.3 Details of E.U.T.

**Technical Data** : Adapter input: 100 ~ 240VAC, 50/60Hz 1.5A MAX  
 Adapter output: 12VDC 4000mA

### 4.4 Description of Support Units

The EUT has been tested as an independent unit.

#### 4.5 Standards Applicable for Testing

The customer requested FCC tests for a CAT5 LCD CONTROL PLATFORM. The standards used were FCC CFR47 Part 15 Section 15.107 and Section 15.109.

#### 4.6 Test Facility

The test facility has a test site registered with the following organizations:

- **IC – Registration No.: 7760A**

Waltek Services(Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration 7760A, August 3, 2010.

- **FCC – Registration No.: 880581**

Waltek Services(Shenzhen) 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 880581, May 26, 2011.

#### 4.7 Test Location

All the tests were performed at:

Waltek Services(Shenzhen) Co., Ltd. at 1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District, Shenzhen, China

## 5 Equipment Used during Test

Equipment Name	Manufacturer Model	Equipment No.	Internal No.	Specification	Cal. Date	Due Date	Uncertainty
EMC Analyzer	Agilent/ E7405A	MY45114 943	W20080 01	9k- 26.5GHz	Aug.2, 2011	Aug.1, 2012	±1dB
Trilog Broadband Antenne 30-3000 MHz	SCHWARZB ECK MESS- ELEKTROM / VULB9163	336	W20080 02	30-3000 MHz	Aug.2, 2011	Aug.1, 2012	±1dB
Broad-band Horn Antenna 1-18 GHz	SCHWARZB ECK MESS- ELEKTROM / BBHA9120D	667	W20080 03	1-18GHz	Aug.2, 2011	Aug.1, 2012	f < 10 GHz : ±1dB 10GHz < f < 18 GHz : ±1.5dB
Broadband Preamplifier 0.5-18 GHz	SCHWARZB ECK MESS- ELEKTROM / BBV 9718	9718-148	W20080 04	0.5-18GHz	Aug.2, 2011	Aug.1, 2012	±1.2dB
10m Coaxial Cable with N-male Connectors usable up to 18GHz,	SCHWARZB ECK MESS- ELEKTROM /AK 9515 H	-	-	-	Aug.2, 2011	Aug.1, 2012	-
10m 50 Ohm Coaxial Cable with N-plug, individual length, usable up to 3(5)GHz, Connector	SCHWARZB ECK MESS- ELEKTROM /AK 9513	-	-	-	Aug.2, 2011	Aug.1, 2012	-
Positioning Controller	C&C LAB/ CC-C-IF	-	-	-	N/A	N/A	-
Color Monitor	SUNSP0/ SP-14C	-	-	-	N/A	N/A	-
Test Receiver	ROHDE&SC HWARZ/ ESPI	101155	W20050 01	9k-3GHz	Aug.2, 2011	Aug.1, 2012	±1dB
Two-Line V-Network	ROHDE&SC HWARZ/ ENV216	100115	W20050 02	50Ω/50μ H	Aug.2, 2011	Aug.1, 2012	±10%
V-LISN	SCHWARZB ECK MESS- ELEKTRON IK	NSLK 8128	8128- 259	9k-30MHz	Aug.2, 2011	Aug.1, 2012	-
Active Loop Antenna	Beijing Dazhi / ZN30900A	-	-	-	Aug.2, 2011	Aug.1, 2012	±1dB

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Equipment Name	Manufacturer Model	Equipment No.	Internal No.	Specificatio n	Cal. Date	Due Date	Uncertaint y
PC1	Lenovo	T2900D	-	-	Aug.2, 2011	Aug.1, 2012	±1dB
PC2	Acer	Aspire AG1720	-	-	Aug.2, 2011	Aug.1, 2012	±1dB
Display1	ViewSonic	S27996- 1W	-	-	Aug.2, 2011	Aug.1, 2012	±0.5dB
Display2	Lenovo	9227-AC6	-	-	Aug.2, 2011	Aug.1, 2012	±0.5dB
K/B	Dell	L100	-	-	Aug.2, 2011	Aug.1, 2012	±0.5dB
Mouse	Acer	M- UVACR1	-	-	Aug.2, 2011	Aug.1, 2012	±0.5dB

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## 6 Conducted Emission Data

Test Requirement:	FCC CFR 47 Part 15 Section 15.107
Test Method:	ANSI C63.4:2003
Test Result:	PASS
Frequency Range:	150kHz to 30MHz
Class:	Class B
Limit:	66-56 dB $\mu$ V between 0.15MHz & 0.5MHz 56 dB $\mu$ V between 0.5MHz & 5MHz 60 dB $\mu$ V between 5MHz & 30MHz
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth) Quasi-Peak & Average if maximised peak within 6dB of Average Limit

### 6.1 E.U.T. Operation

#### Operating Environment:

Temperature: 25.5 °C  
Humidity: 51 % RH  
Atmospheric Pressure: 1012 mbar

#### EUT Operation:

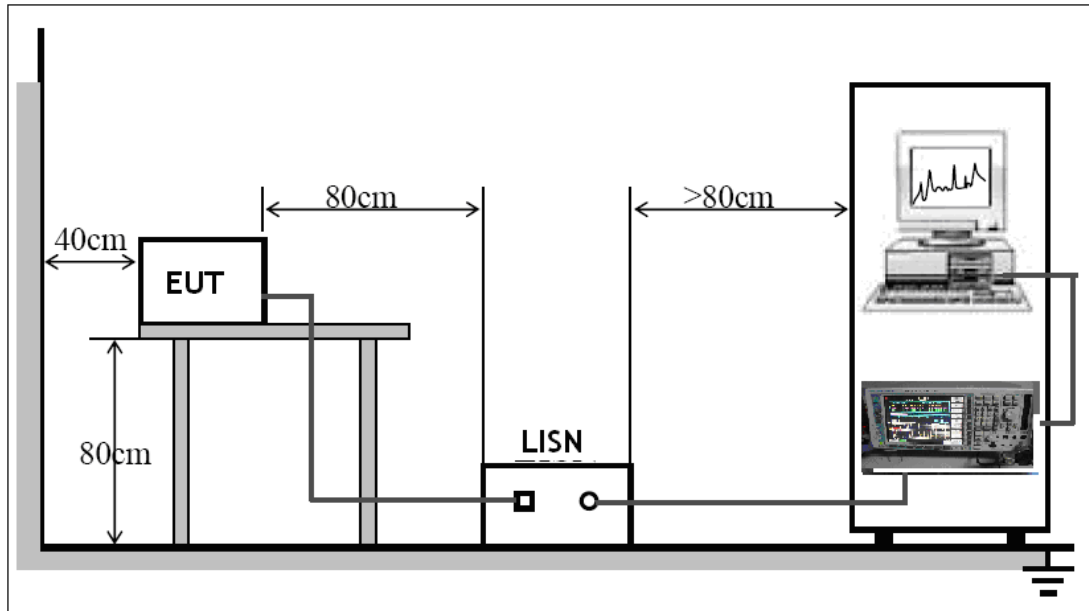
The EUT was tested according to ANSI C63.4:2003. The frequency spectrum from 150kHz to 30MHz was investigated.

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.



## 6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC Part15 Section 15.107 limits.



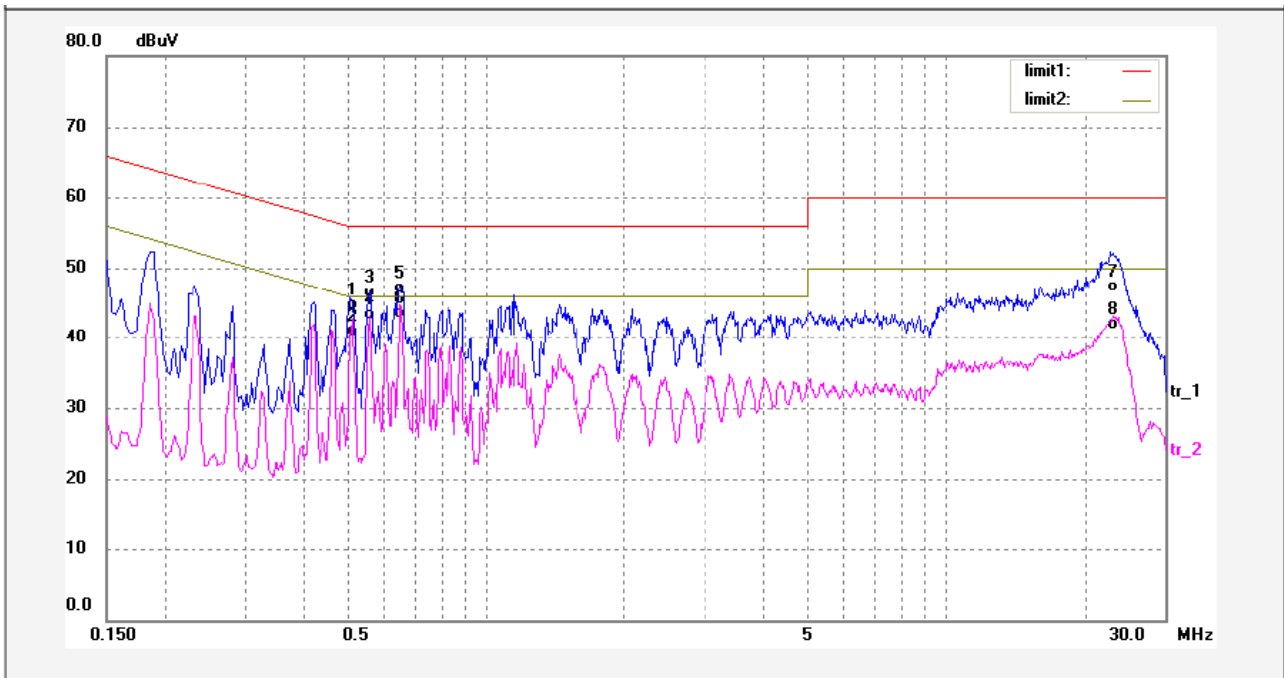
The EUT was placed on the test table in shielding room

## 6.3 Conducted Emission Test Result

An initial pre-scan was performed on the live and neutral lines.

Remark: The pre-test was performance in three models AS-3116TLG, AS-7116TLG, AS-9116TLG, and the worst is AS-9116TLG, when it connected to two PC via the Dongle with USB interface and scrolled the “H” letter in full screen with 1280\*1024 resolution and 60Hz refresh rate. So the data show is that mode’s only.

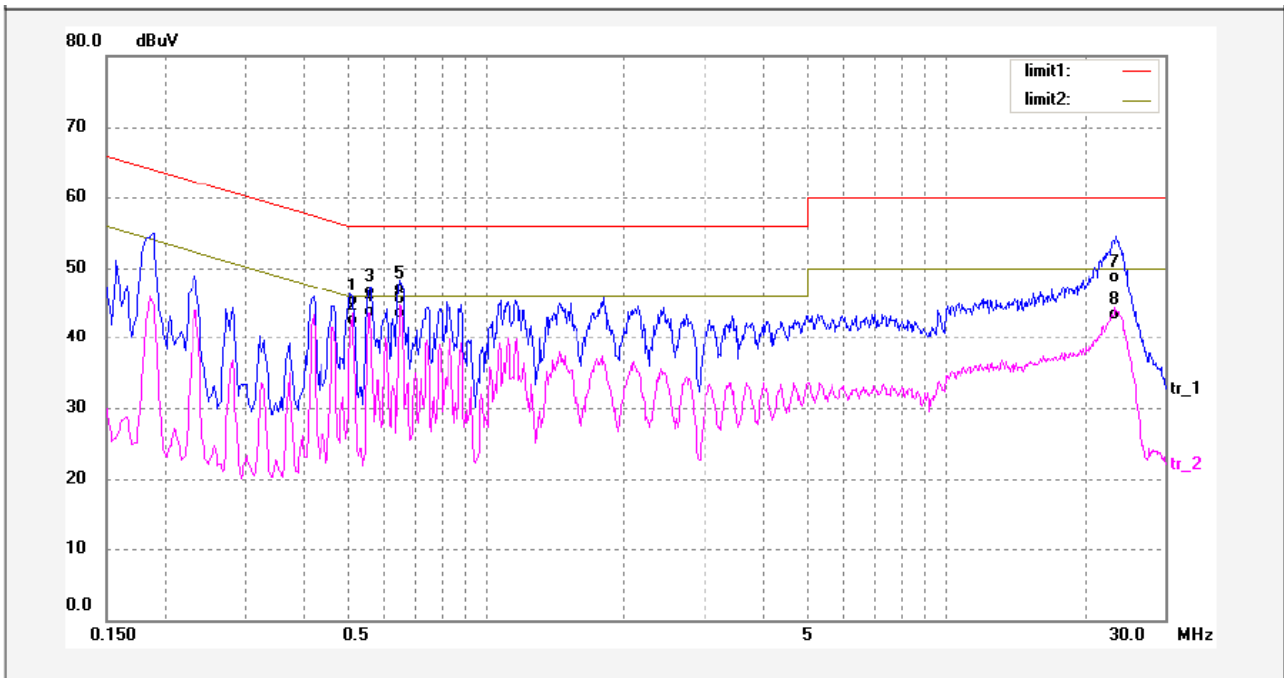
Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.5100	32.11	11.76	43.87	56.00	-12.13	QP	
2	0.5100	28.44	11.76	40.20	46.00	-5.80	AVG	
3	0.5620	34.23	11.42	45.65	56.00	-10.35	QP	
4	0.5620	31.00	11.42	42.42	46.00	-3.58	AVG	
5	0.6540	34.49	11.75	46.24	56.00	-9.76	QP	
6	0.6540	30.93	11.75	42.68	46.00	-3.32	AVG	
7	22.9980	33.89	12.68	46.57	60.00	-13.43	QP	
8	22.9980	28.43	12.68	41.11	50.00	-8.89	AVG	

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Neutral line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.5100	32.83	11.76	44.59	56.00	-11.41	QP	
2	0.5100	30.01	11.76	41.77	46.00	-4.23	AVG	
3	0.5620	34.39	11.42	45.81	56.00	-10.19	QP	
4	0.5620	31.57	11.42	42.99	46.00	-3.01	AVG	
5	0.6500	34.68	11.71	46.39	56.00	-9.61	QP	
6	0.6500	31.01	11.71	42.72	46.00	-3.28	AVG	
7	23.5900	35.41	12.54	47.95	60.00	-12.05	QP	
8	23.5900	29.95	12.54	42.49	50.00	-7.51	AVG	

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## 6.4 Photograph – Conducted Emission Test Setup

### Front View



### Back View



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Reference No.: WT11105728-U-E-F

## 7 Radiation Emission Data

Test Requirement:	FCC CFR 47 Part 15 Section 15.109
Test Method:	ANSI C63.4:2003
Test Result:	PASS
Frequency Range:	9kHz to 2GHz
Measurement Distance:	3m
Class:	Class B
Limit:	

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

Note:

- The tighter limit applies at the band edges.  
For example: F.S limit at 88MHz is 100uV/m
- If measurement is made at 3m distance, then F.S Limit at 3m distance is adjusted by using the formula of  $L_{d1} = L_{d2} * (d2/d1)^2$ .  
For example:  
F.S Limit at 30m(d2) distance is 30uV/m( $L_{d2}$ ), then F.S Limit at 3m(d1) distance is  $L_{d1} = 30uV/m * (30/3)^2 = 100 * 30uV/m$

### 7.1 Measurement Uncertainty

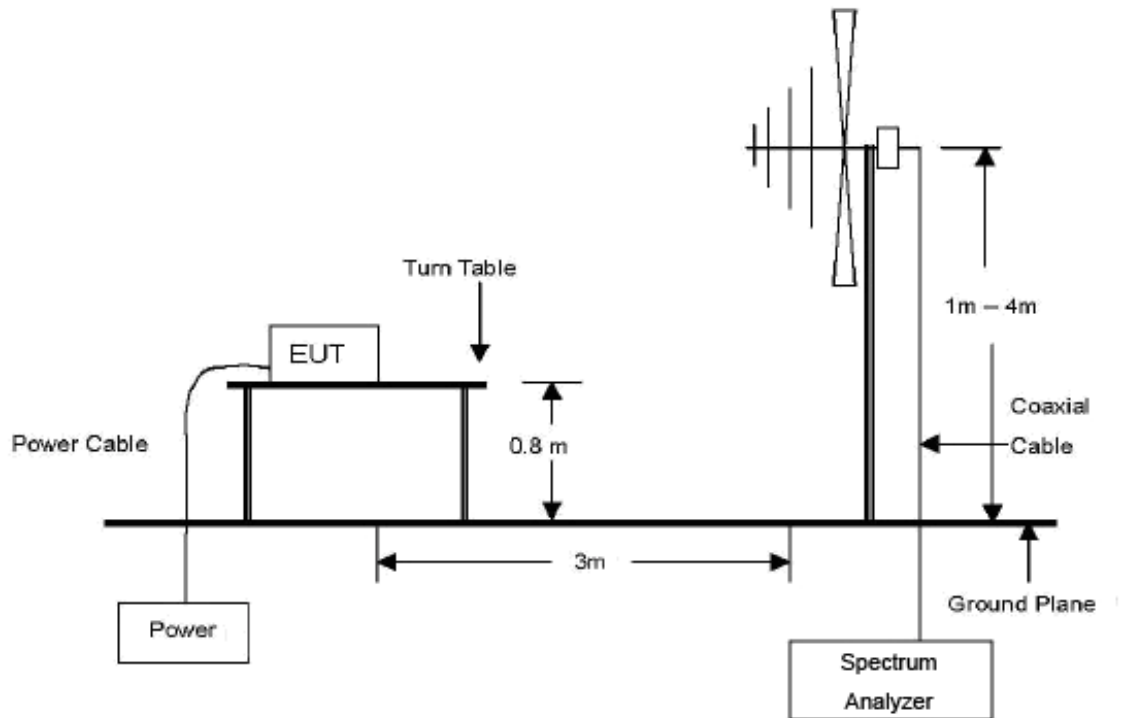
All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Waltek EMC Lab is  $\pm 5.03$ dB.

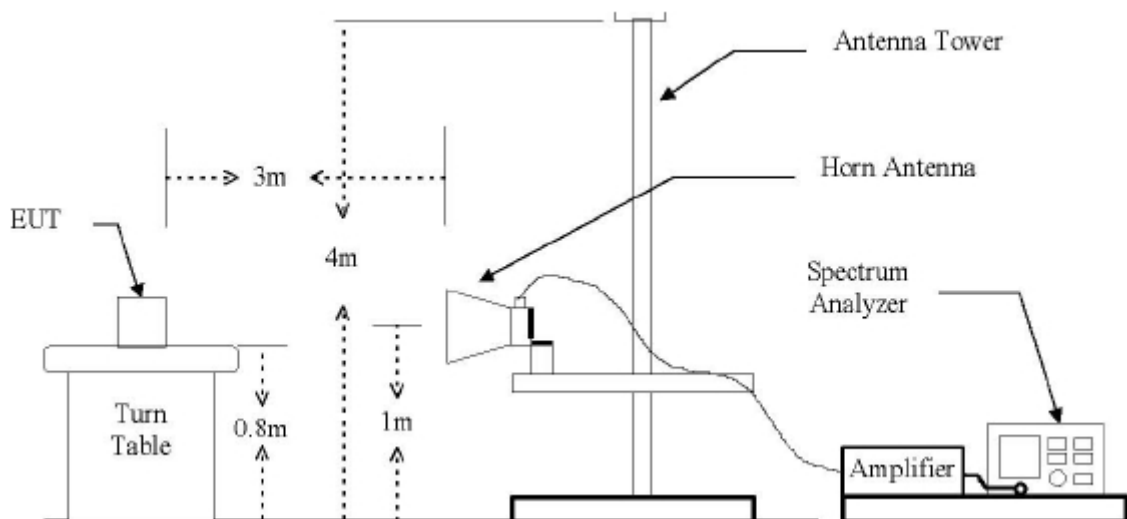
## 7.2 EUT Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC CFR 47 Part 15 Section 15.109 limits.

The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission Above 1GHz Emissions.



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### 7.3 Spectrum Analyzer Setup

According to FCC Part15 B Rules, the system was tested 30 to 2000MHz.

9kHz ~ 30MHz

Start Frequency .....	9kHz
Stop Frequency .....	30MHz
Sweep Speed.....	Auto
IF Bandwidth.....	10KHz
Video Bandwidth.....	10KHz
Resolution Bandwidth.....	10KHz

30MHz ~ 1GHz

Start Frequency .....	30 MHz
Stop Frequency .....	1000MHz
Sweep Speed.....	Auto
IF Bandwidth.....	120 KHz
Video Bandwidth.....	100KHz
Quasi-Peak Adapter Bandwidth .....	120 KHz
Quasi-Peak Adapter Mode .....	Normal
Resolution Bandwidth .....	100KHz

Above 1GHz

Start Frequency .....	1000 MHz
Stop Frequency .....	25000MHz
Sweep Speed.....	Auto
IF Bandwidth.....	120 KHz
Video Bandwidth.....	1MHz
Quasi-Peak Adapter Bandwidth .....	120 KHz
Quasi-Peak Adapter Mode .....	Normal
Resolution Bandwidth .....	1MHz

#### 7.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X(normal uses) axis positioning. And all the modes was tested in the report. Only the worst case is shown in the report.

#### 7.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB $\mu$ V means the emission is 7dB $\mu$ V below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Class B Limit}$$

#### 7.6 Summary of Test Results

According to the data in this section, the EUT complied with the FCC CFR47 Part 15 Section 15.109 standards.

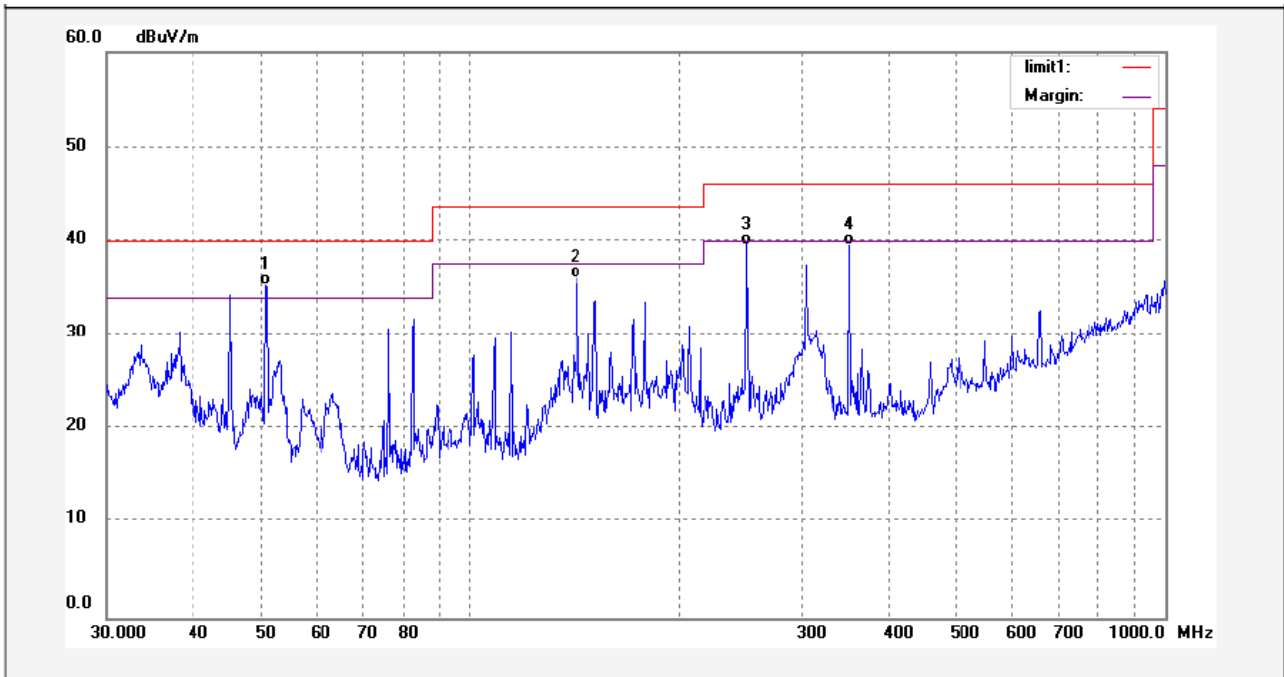
Remark: The pre-test was performance in three models AS-3116TLG, AS-7116TLG, AS-9116TLG, and the worst is AS-9116TLG, when it connected to two PC via the Dongle with USB interface and scrolled the “H” letter in full screen with 1280\*1024 resolution and 60Hz refresh rate. So the data show is that mode’s only.

Because the emissions below 30MHz are more than 20dB below the limit, the data is not show in the report.



Frequency Range: 30MHz ~ 1000MHz

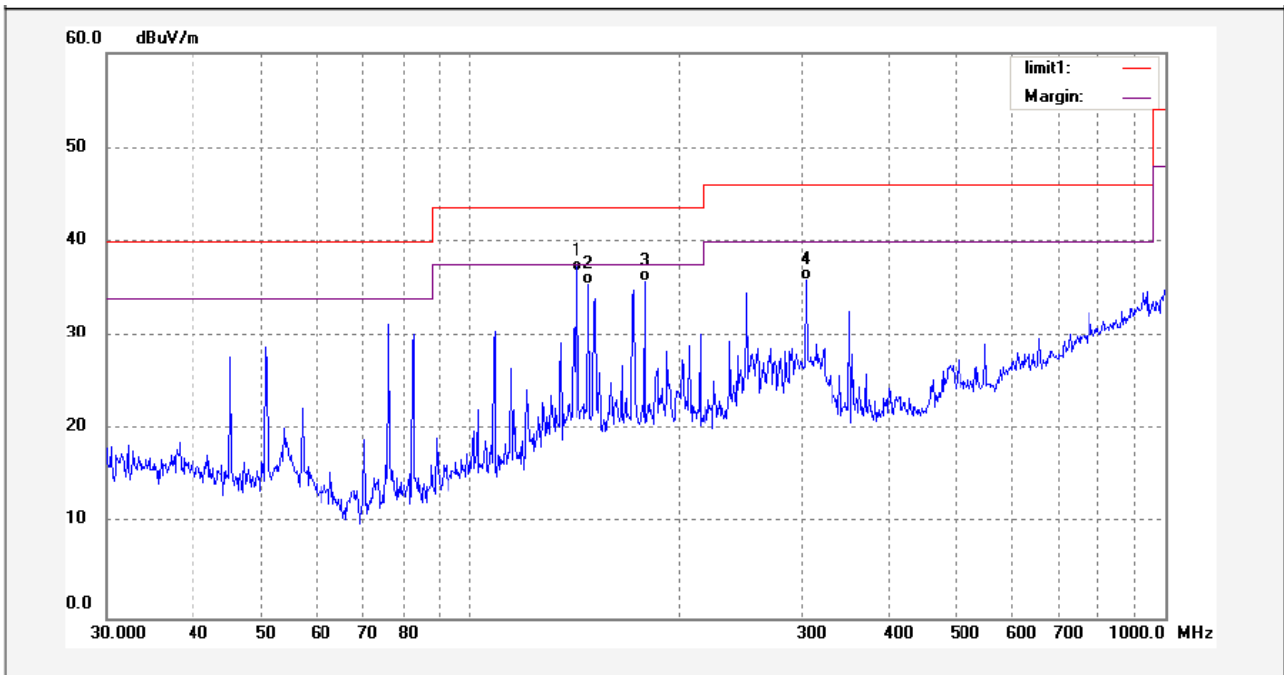
Antenna polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	50.8172	20.82	14.55	35.37	40.00	-4.63	QP	
2	142.2684	24.57	11.50	36.07	43.50	-7.43	QP	
3	250.4859	23.91	15.69	39.60	46.00	-6.40	QP	
4	350.9722	19.40	20.19	39.59	46.00	-6.41	QP	

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Antenna polarization: Horizontal

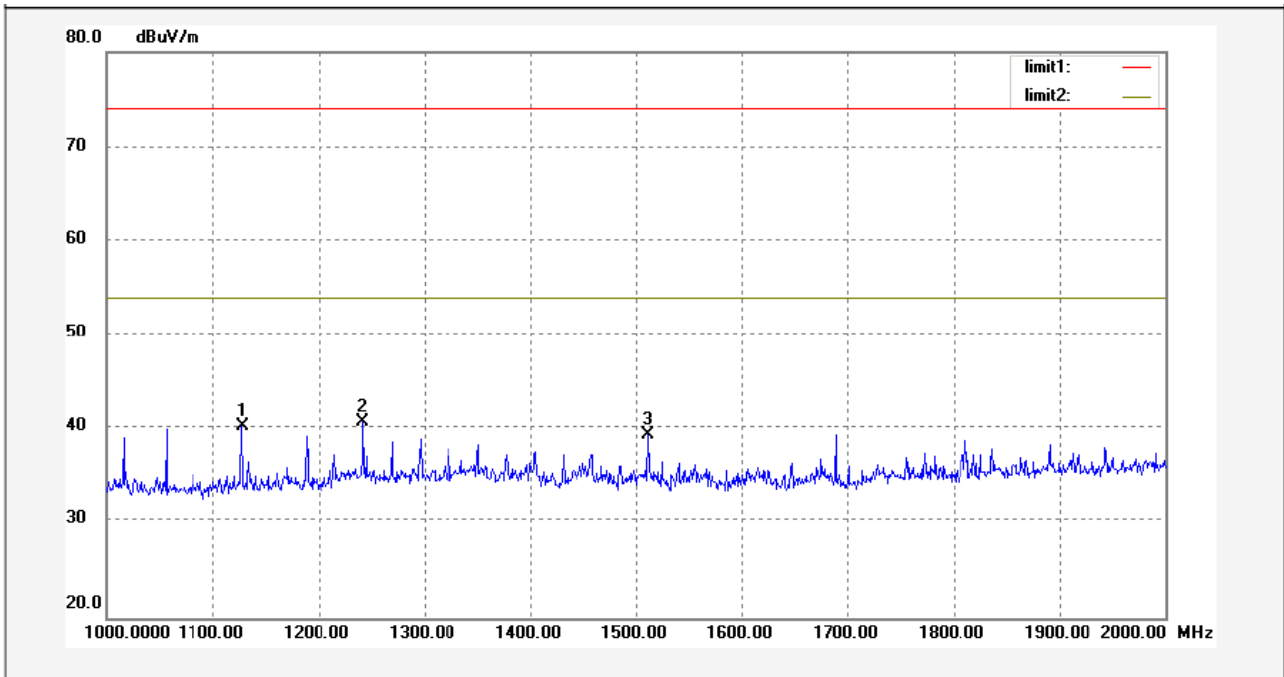


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	142.7692	25.35	11.46	36.81	43.50	-6.69	QP	
2	148.3951	24.27	11.15	35.42	43.50	-8.08	QP	
3	178.1426	23.03	12.78	35.81	43.50	-7.69	QP	
4	303.8851	18.41	17.44	35.85	46.00	-10.15	QP	

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Frequency Range: 1000MHz ~ 2000MHz

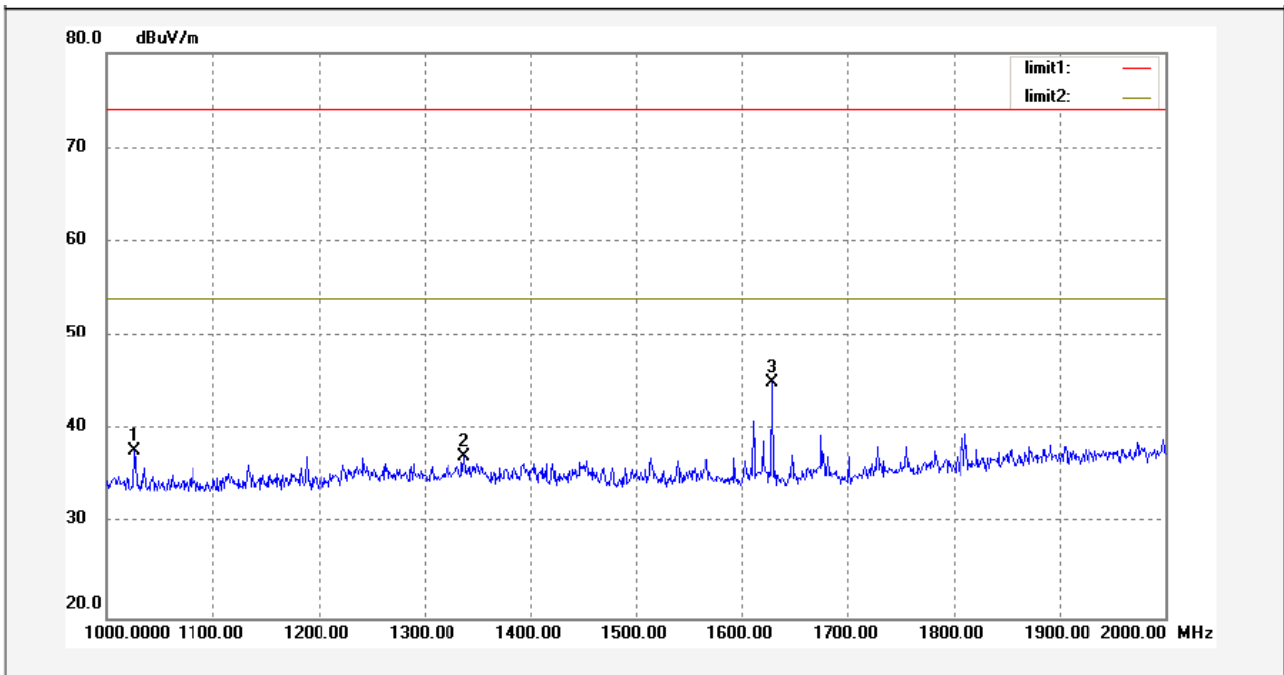
Antenna polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1127.255	46.69	-6.38	40.31	74.00	-33.69	peak	
2	1242.485	46.08	-5.32	40.76	74.00	-33.24	peak	
3	1511.022	44.63	-5.16	39.47	74.00	-34.53	peak	

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Antenna polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1026.052	44.11	-6.29	37.82	74.00	-36.18	peak	
2	1337.675	41.96	-4.77	37.19	74.00	-36.81	peak	
3	1628.256	49.93	-4.98	44.95	74.00	-29.05	peak	

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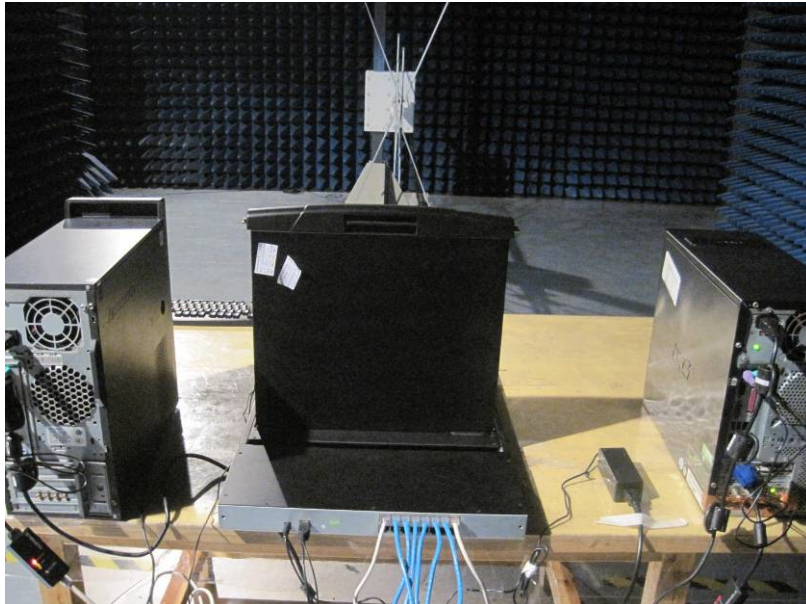
## 7.7 Photograph – Radiation Emission Test Setup

Below 1GHz

Front View



Back View

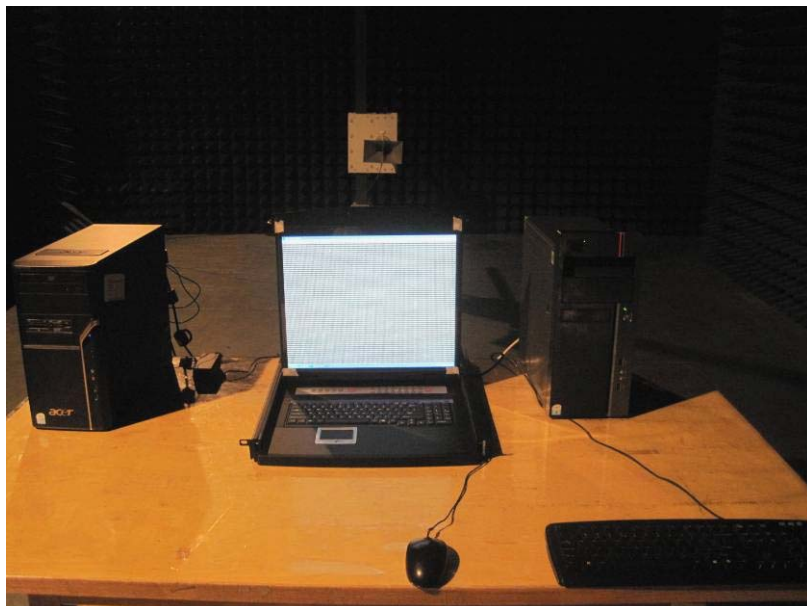


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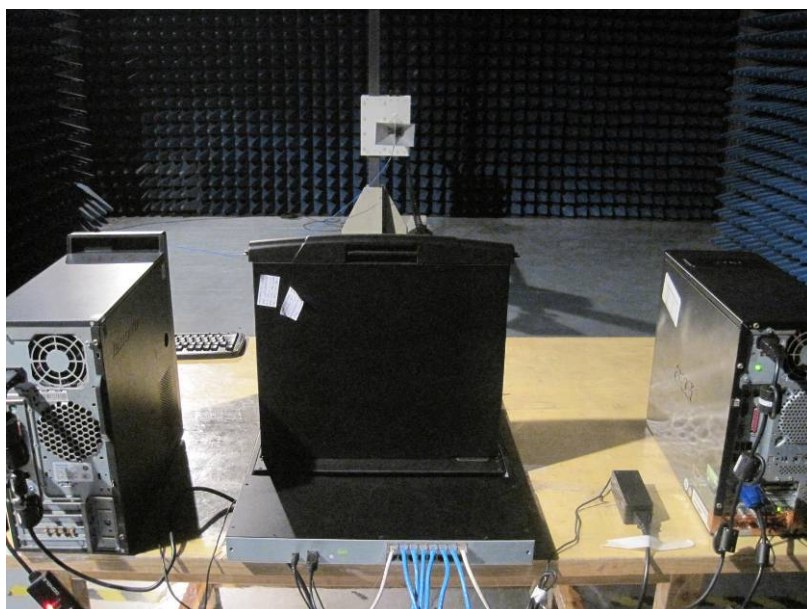
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Reference No.: WT11105728-U-E-F

**Above 1GHz  
Front View**



**Back View**



## 8 Photographs - Constructional Details

### 8.1 Product View



### 8.2 EUT - Appearance View



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### 8.3 EUT - Open View 1



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Reference No.: WT11105728-U-E-F

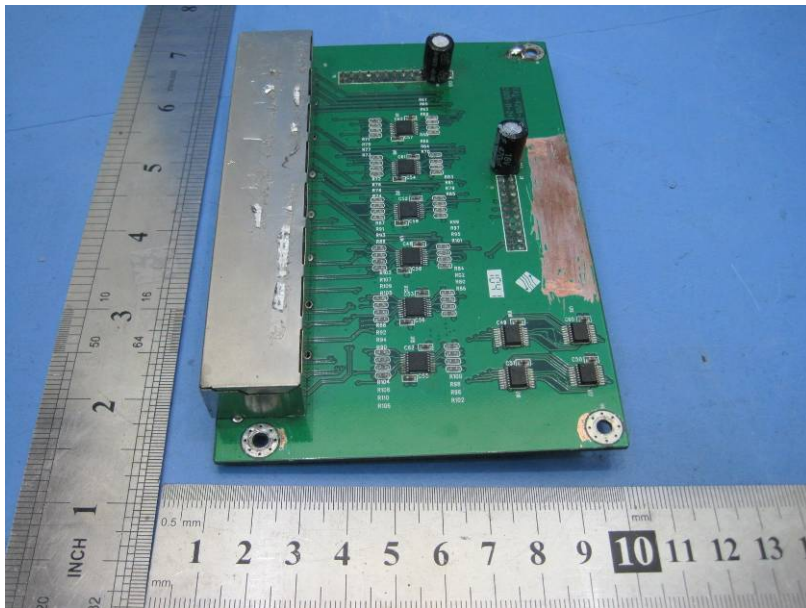


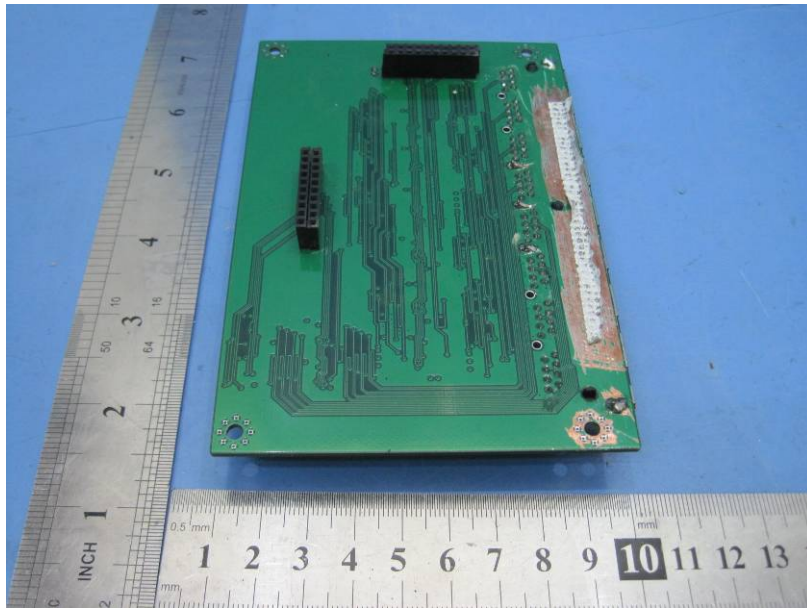
PCB2

PCB1

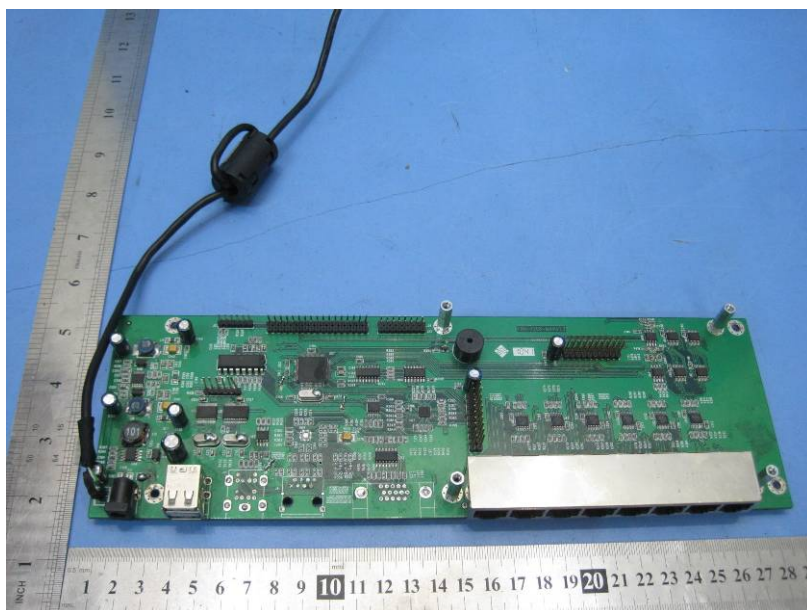


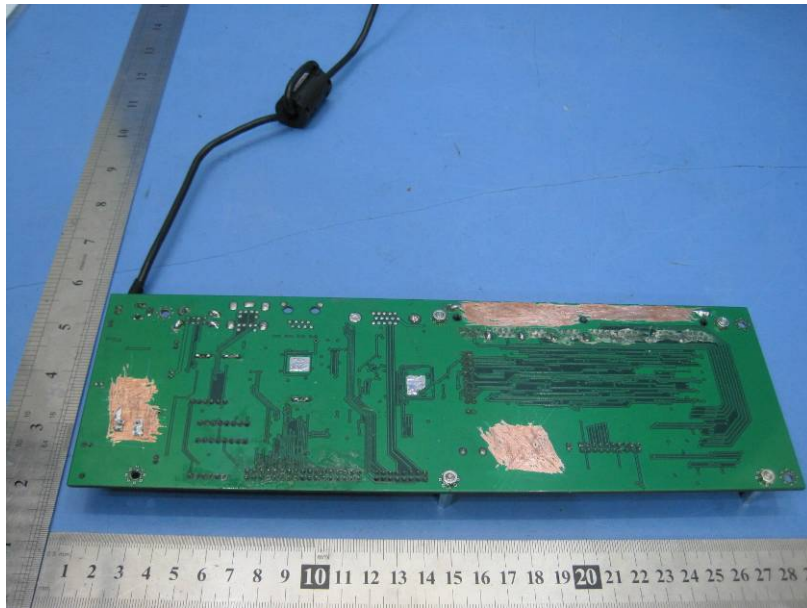
#### 8.4 PCB1 View





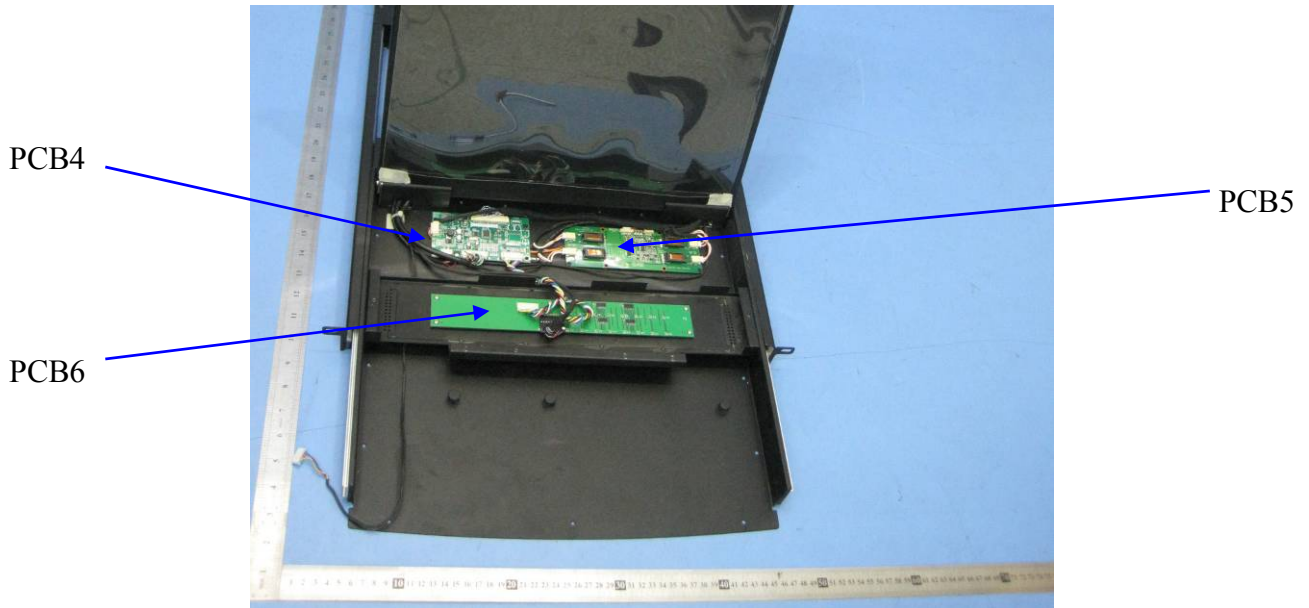
### 8.5 PCB2 View





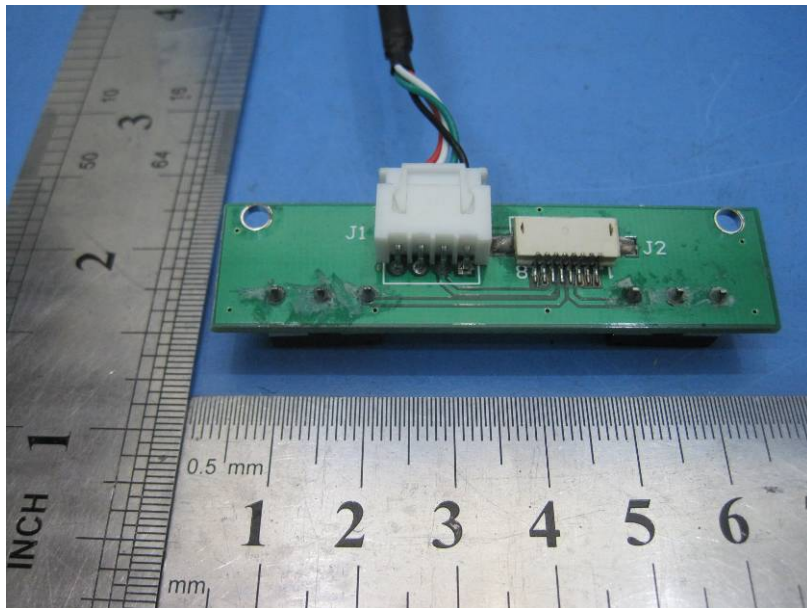
### 8.6 EUT – Open View 2

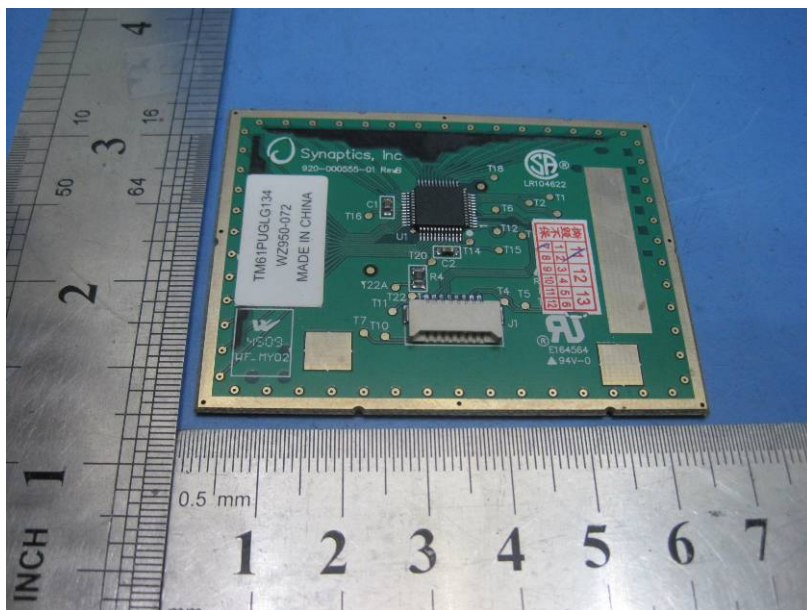
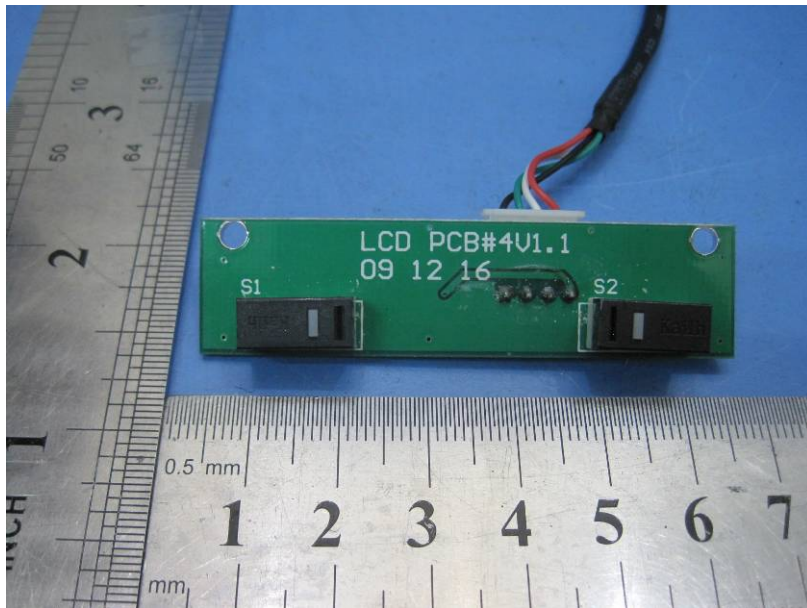




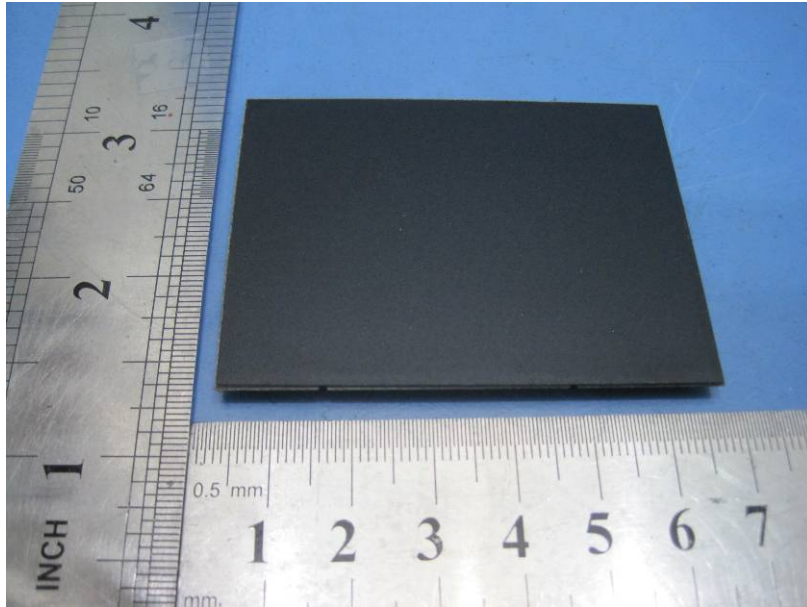
### 8.7 PCB3 View



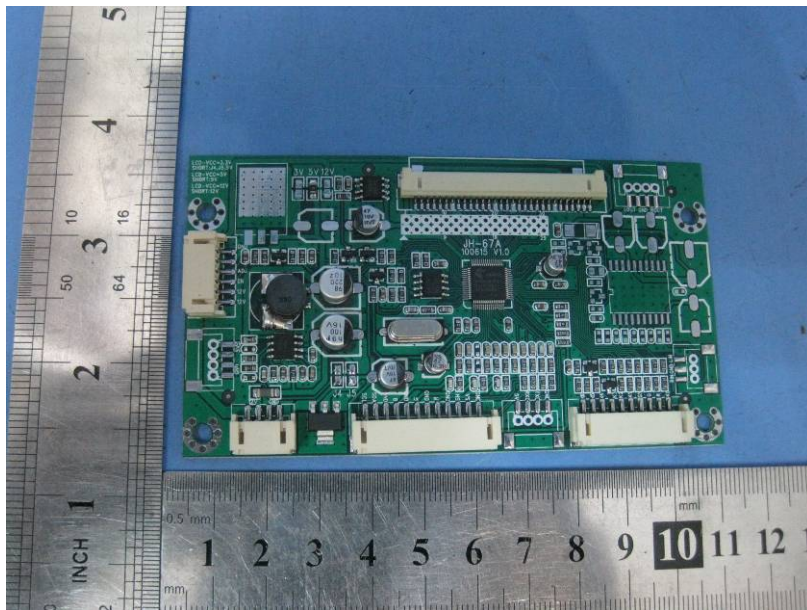


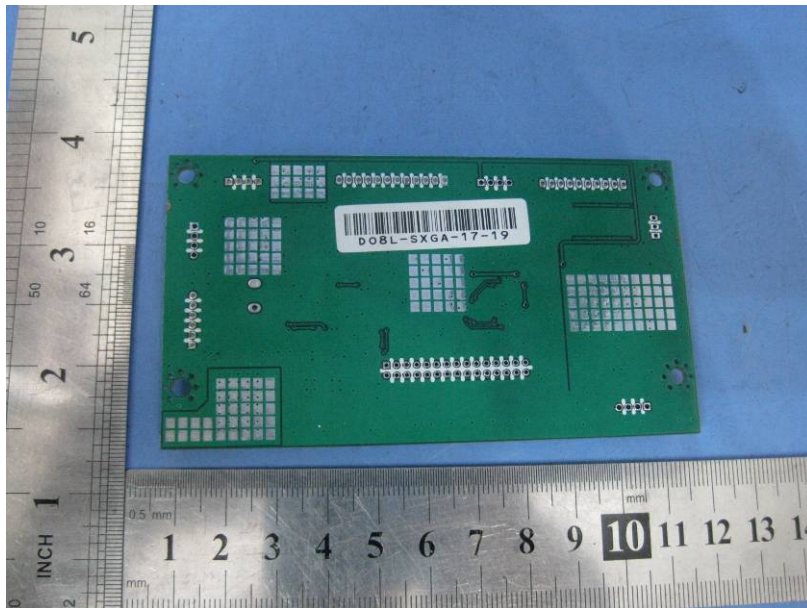


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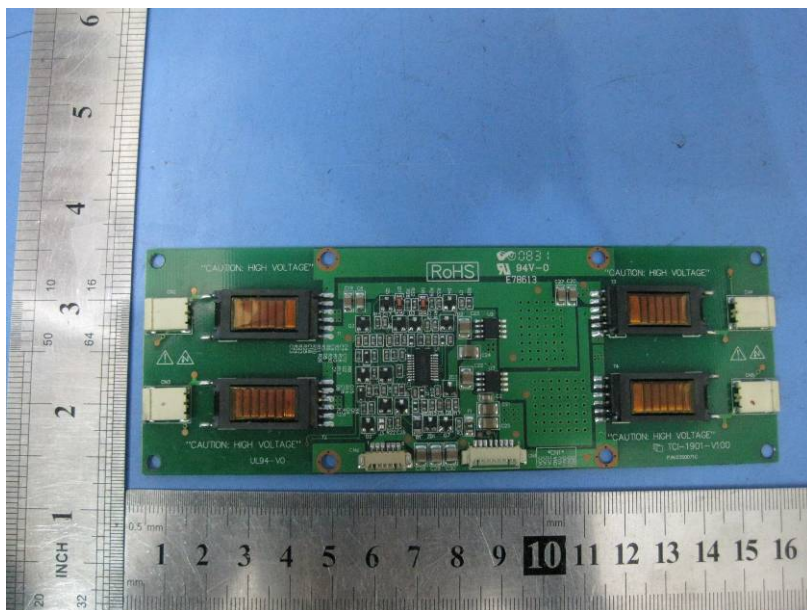


### 8.8 PCB4 View





### 8.9 PCB5 View

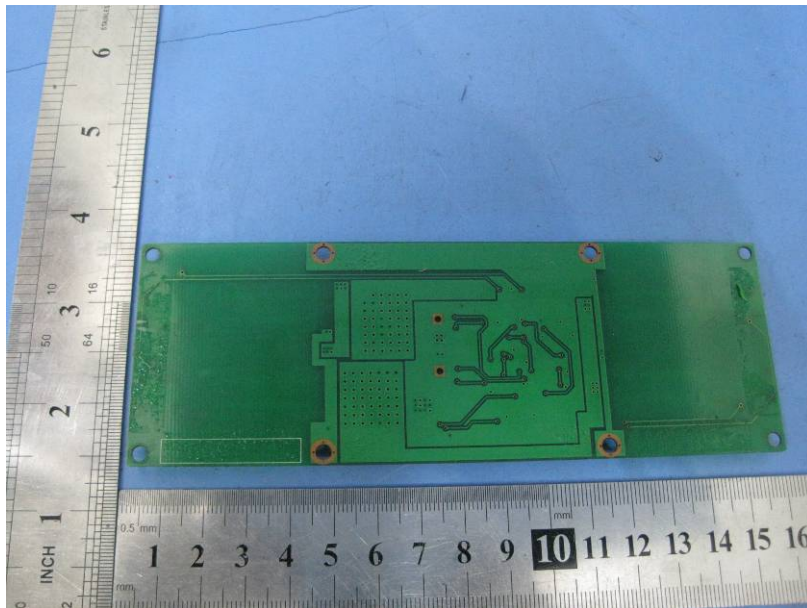


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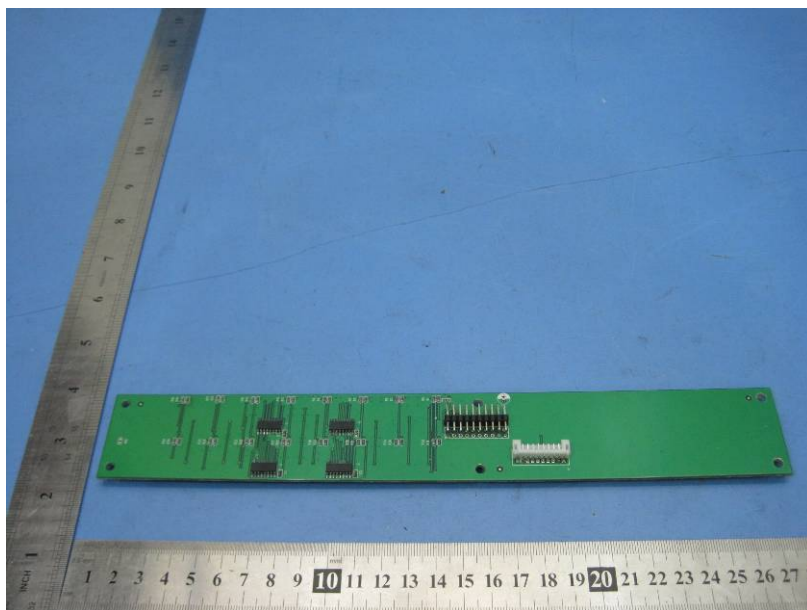
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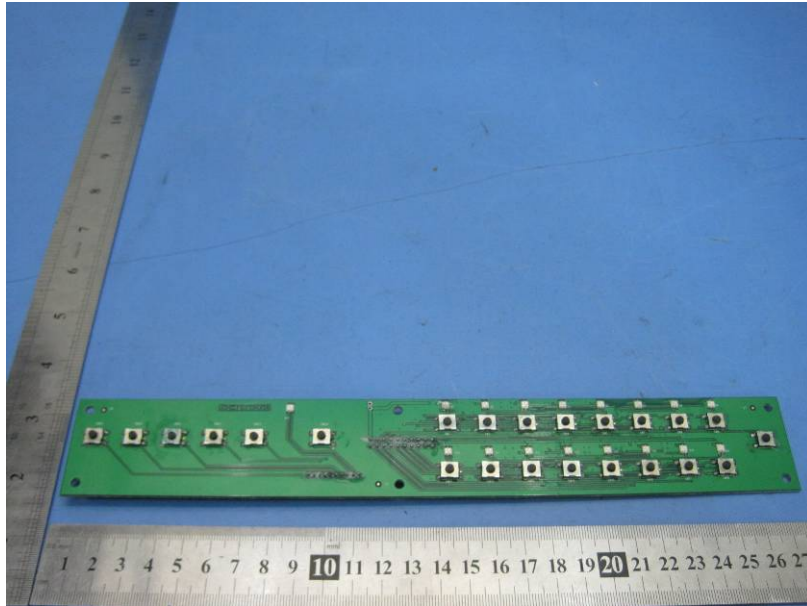
Reference No.: WT11105728-U-E-F





### 8.10 PCB6 View





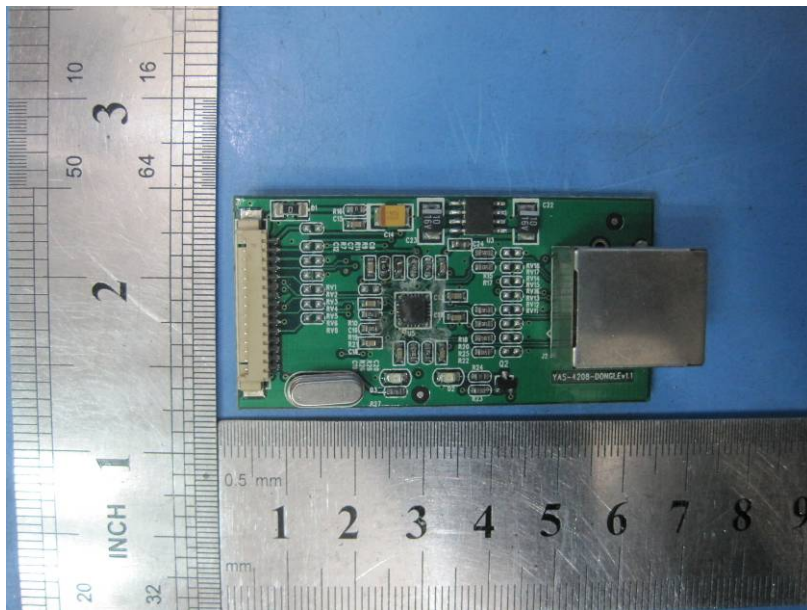
### 8.11 Dongle (PS/2) – Appearance View



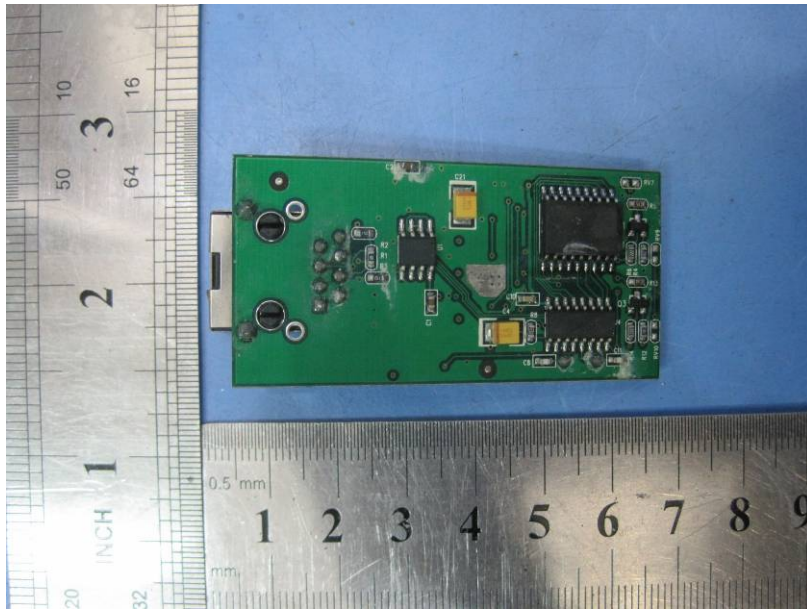
### 8.12 Dongle (PS/2) – Open View



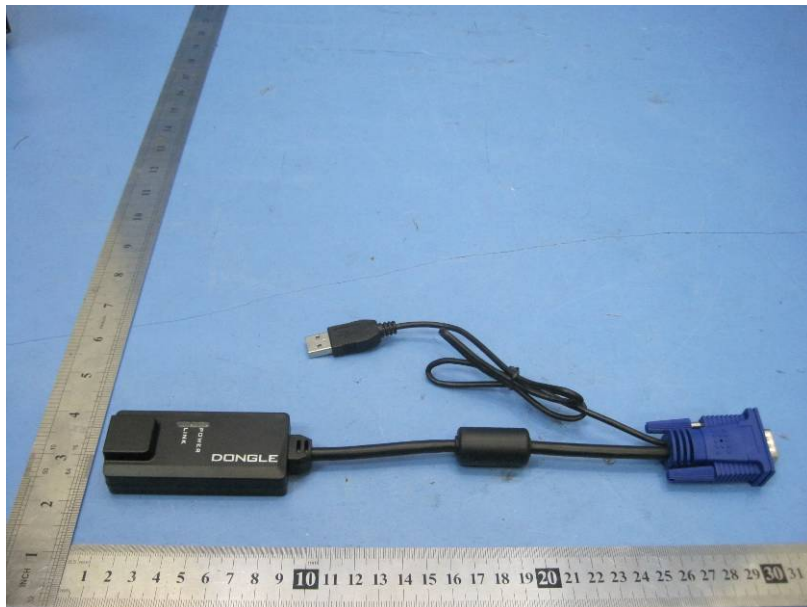
### 8.13 Dongle (PS/2) – PCB View



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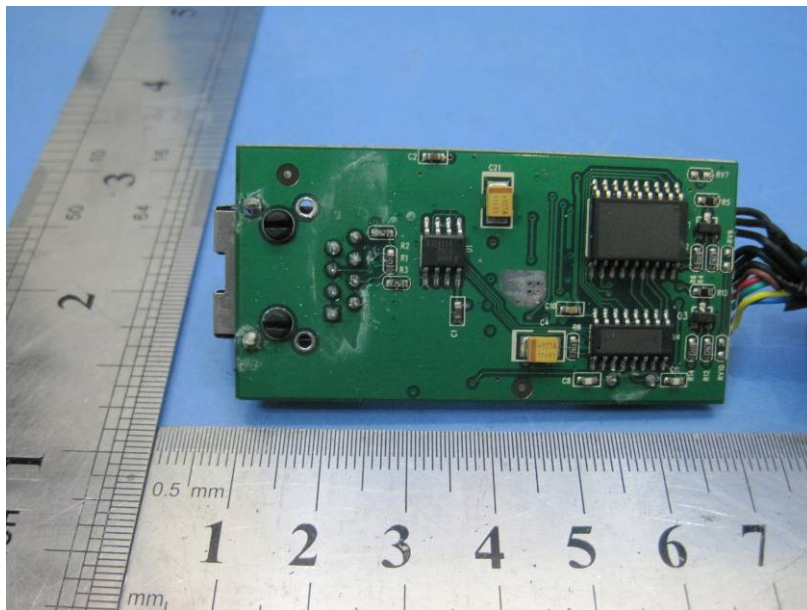
#### 8.14 Dongle (USB) – Appearance View

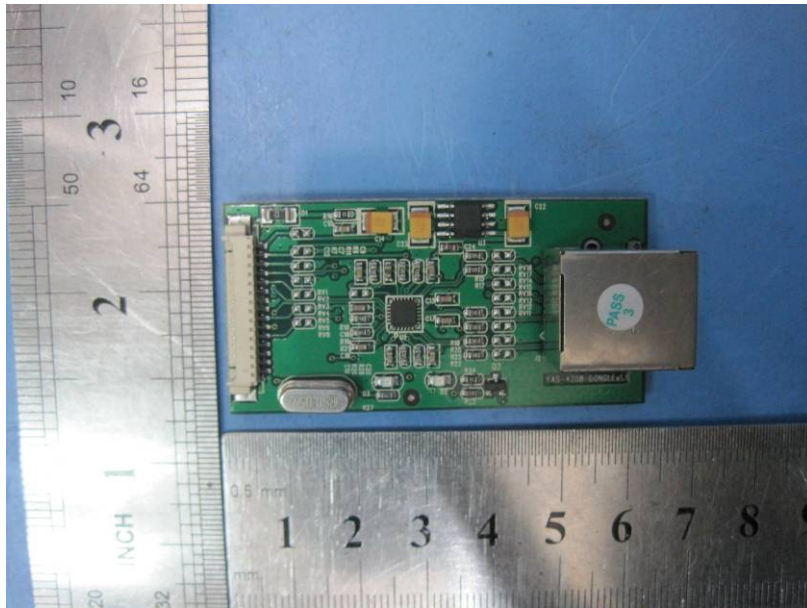


### 8.15 Dongle (USB) – Open View



### 8.16 Dongle (USB) – PCB View



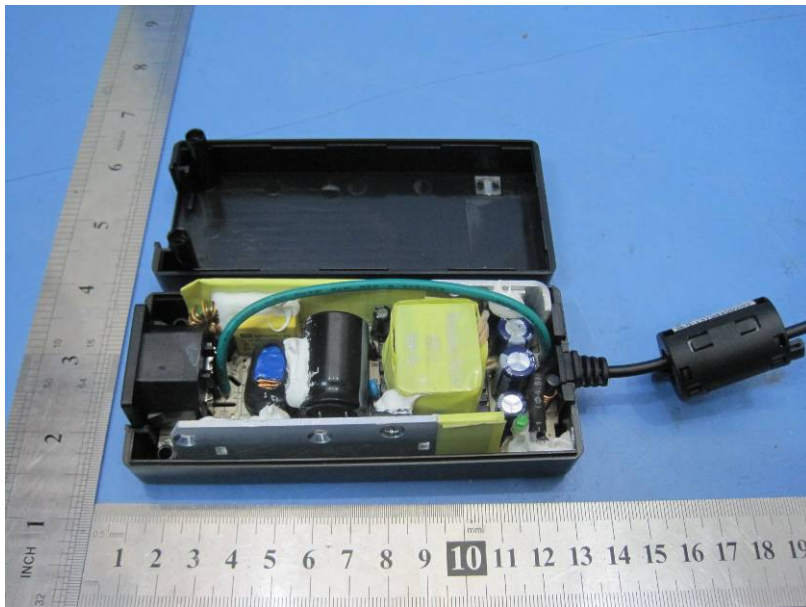


### 8.17 Adapter - Appearance View

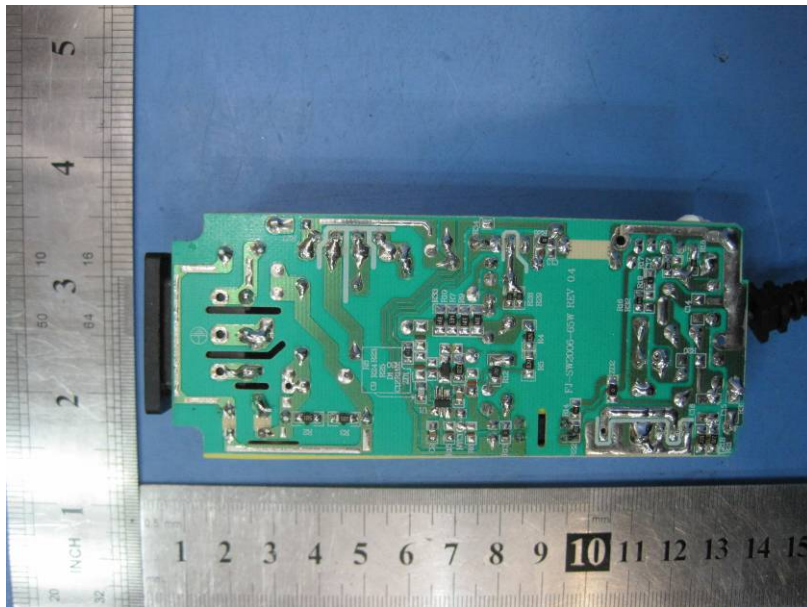
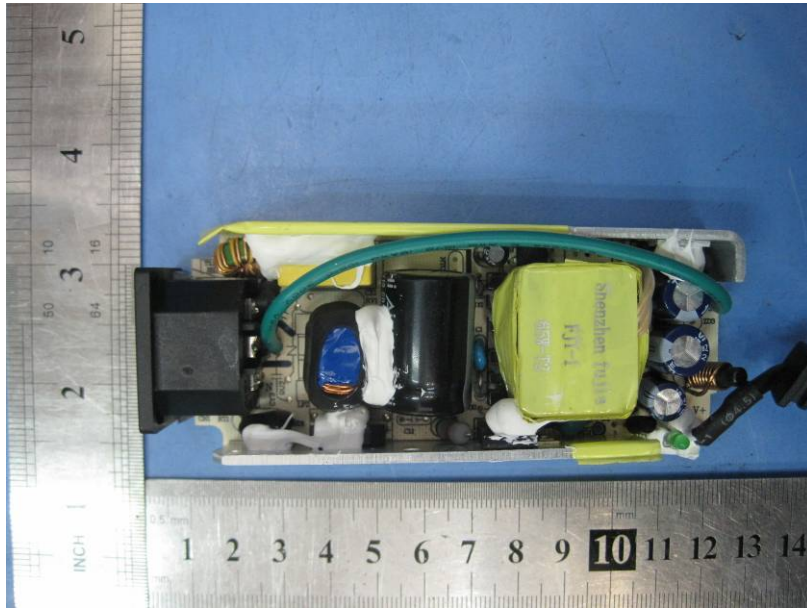




### 8.18 Adapter – Open View



### 8.19 Adapter – PCB View





## 9 FCC Label

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)this device may not cause harmful interference,and (2) this device must accept any interference received, including interference that may cause undesired operation

The Label must not be a stick-on paper. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT  
EUT Top View/proposed FCC Mark Location

