

GTS Global United Technology Services Co., Ltd.

Report No.: GTSE15110207001

EMC REPORT

Applicant:	FUZHOU TREELAND IMPORT & EXPORT CO., LTD		
Address of Applicant:	RM 1306, 13/F, 92 NORTH LIUYI RD, JINGAN DISTRICT, FUZHOU, FUJIAN		
Equipment Under Test (E	EUT)		
Product Name:	3D Glasses		
Model No.:	Vrbox-01, Vrbox-02		
Applicable standards:	ETSI EN 301 489-17 V2.2.1 (2012-09) ETSI EN 301 489-1 V1.9.2 (2011-09)		
Date of sample receipt:	November 09, 2015		
Date of Test:	November 10-16, 2015		
Date of report issue:	November 17, 2015		
Test Result :	Pass *		

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

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The protection requirements with respect to electromagnetic compatibility contained in Directive 1999/5/EC are considered.

Robinson Lo Laboratory Manager

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 and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Version 2

Date	Description
November 17, 2015	Original
	November 17, 2015

Prepared By:

Sam. Gao Project Engineer

Date:

November 17, 2015

Check By:

hank. yan

Date:

November 17, 2015

Reviewer



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4 Test Summary

EMI Test					
Test Item	Test Requirement	Test Method	Application	Result	
Radiated Emission	ETSI EN 301 489-17	ETSI EN301 489-1	Enclosure	Pass	
Conducted Emission	ETSI EN 301 489-17	ETSI EN301 489-1	AC port	N/A	
Harmonic Current Emissions	ETSI EN 301 489-17	ETSI EN301 489-1	AC port	N/A	
Voltage Fluctuations and Flicker	ETSI EN 301 489-17	ETSI EN301 489-1	AC port	N/A	
EMS Test					
ESD (Electrostatic Discharge)	ETSI EN 301 489-17	EN 61000-4-2	Enclosure	Pass	
Radiated Immunity, 80MHz to 2.7 GHz	ETSI EN 301 489-17	EN 61000-4-3	Enclosure	Pass	
EFT (Electrical Fast Transients	ETSI EN 301 489-17	EN 61000-4-4	AC port	N/A	
Surge Immunity	ETSI EN 301 489-17	EN 61000-4-5	AC port	N/A	
Injected Currents 150kHz to 80MHz	ETSI EN 301 489-17	EN 61000-4-6	AC port	N/A	
Voltage Dips and Interruptions	ETSI EN 301 489-17	EN 61000-4-11	AC port	N/A	



5 General Information

5.1 Client Information

Applicant:	FUZHOU TREELAND IMPORT & EXPORT CO., LTD
Address of Applicant:	RM 1306, 13/F, 92 NORTH LIUYI RD, JINGAN DISTRICT, FUZHOU, FUJIAN
Manufacturer:	SHENZHEN JUZHONGCHUANG Technology CO.,LTD
Address of Manufacturer:	RM 1306, Block B, ZHENGZHONG SHIDAI Square, Longgang District, Shenzhen

5.2 General Description of EUT

3D Glasses		
Vrbox-01, Vrbox-02		
2402~2480MHz		
BT V3.0: 79		
BT V3.0: 1MHz		
GFSK, Pi/4 QPSK, 8DPSK		
PCB Antenna		
2dBi (declare by Applicant)		
DC 3V (SIZE AA 1.5V*2)		



5.3 Operating Modes

Operating mode	Detail description	
Bluetooth mode	Keep the EUT in Bluetooth mode.	

5.4 Description of Support Units

None.

5.5 Deviation from Standards

None.

5.6 Abnormalities from Standard Conditions

None

5.7 Other Information Requested by the Customer

None

5.8 Test Facility

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

• FCC — Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

• Industry Canada (IC) — Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.9 Test Location

RI test was performed at:	
SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab, No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guan 518057.	gdong, China.
All other tests were performed at:	
Global United Technology Services Co., Ltd. Address: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 3 Industrial Zone,Xixiang Road, Baoan District, Shenzhen 518102 Tel: 0755-27798480	300 Laodong
Fax: 0755-27798960	



6 Test Instruments list

Rad	Radiated Emission:						
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 28 2015	Mar. 27 2016	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 30 2015	June 29 2016	
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 22 2015	Feb. 21 2016	
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 26 2015	June 25 2016	
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
8	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016	
9	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016	
10	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016	
11	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016	
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 30 2015	June 29 2016	
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 30 2015	June 29 2016	
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 26 2015	June 25 2016	
15	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016	
16	Constant temperature and humidity box	Oregon Scientific	BA-888	GTS248	May 09 2015	May 08 2016	
17	D.C. Power Supply	Instek	PS-3030	GTS232	May 09 2015	May 08 2016	
18	Universal radio communication tester	Rohde & Schwarz	CMU200	GTS235	May 09 2015	May 08 2016	
19	Splitter	Agilent	11636B	GTS237	May 09 2015	May 08 2016	

ESD:						
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	ESD Simulator	EMPEK	ESD-2030A	GTS242	June 30 2015	June 29 2016



Radia	Radiated Immunity:						
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	June 12 2015	June 11 2016	
2	Signal Generator	Rohde & Schwarz	SML03	SEL0068	June 19 2015	June 18 2016	
3	RF Amplifier 30M-1GHz	Amplifier Research	250W1000A	SEL0066	Nov. 01 2015	Oct. 31 2016	
4	RF Amplifier 0.8-3.0GHz	Amplifier Research	60S1G3	SEL0065	Nov. 01 2015	Oct.31 2016	
5	Power Meter	Rohde & Schwarz	NRVD	SEL0069	June 19 2015	June 18 2016	
6	Power Sensor	Rohde & Schwarz	URV5-Z2	SEL0071	June 19 2015	June 18 2016	
7	Power Sensor	Rohde & Schwarz	URV5-Z2	SEL0072	June 19 2015	June 18 2016	
8	Software EMC32	Rohde & Schwarz	EMC32-S	SEL0082	N/A	N/A	
9	Log-periodic Antenna	Amplifier Research	AT1080	SEL0073	N/A	N/A	
10	Antenna Tripod	Amplifier Research	TP1000A	SEL0074	N/A	N/A	
11	High Gain Horn Antenna (0.8-5GHz)	Amplifier Research	AT4002A	SEL0075	N/A	N/A	
12	Audio Analyzer	Rohde & Schwarz	UPL 16	SEL0076	June 19 2015	June 18 2016	
13	Nexus conditioning amplifier	B&K	2690	SEL0078	June 19 2015	June 18 2016	
14	Mouth simulator	B&K	4227	SEL0079	June 19 2015	June 18 2016	
15	Sound level calibrator	B&K	4231	SEL0080	June 19 2015	June 18 2016	
16	Universal radio communication tester	Rohde & Schwarz	CMU200	SEL0081	June 19 2015	June 18 2016	

Gene	General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	GTS243	July 02 2015	July 01 2016	
2	Barometer	ChangChun	DYM3	GTS255	July 07 2015	July 06 2016	



7 EMC Requirements Specification in ETSI EN 301489-17

7.1 EMI (Emission)

7.1.1 Radiated Emission

Test Requirement:	ETSI EN 301 489-17						
Test Method:	ETSI EN 301 489-1 and EN55016-2-3						
Test Frequency Range:	30MHz to 6GHz						
Test site:	Measurement Distance: 3m						
Receiver setup:	Frequency Detector RBW VBW Remark						
	30MHz- 1GHz	Quasi-peak	(100kHz	300kHz	Quasi-peak Value	
	Above 1GHz	Peak		1MHz	3MHz	Peak Value	
	Above TGHZ	Average		1MHz	3MHz	Average Value	
Limit:	Freque		Lir	mit (dBuV/		Remark	
	30MHz-23			40.0		Quasi-peak Value	
	230MHz-	·1GHz		47.0		Quasi-peak Value	
	1GHz-3	GHz		50.0		Average Value	
				70.0		Peak Value	
	3GHz-6	GHz		54.0		Average Value	
Test setup:	Below 1GHz			74.0	0	Peak Value	
	Antenna Tower Junta Test Receiver Test Receiver Controller						



Test Procedure:	■ From 30MHz to 1GHz:					
	 The radiated emissions test was conducted in a semi-anechoic chamber. 					
	 The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation. 					
	 Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT. 					
	4. The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.					
	■ Above 1GHz:					
	1. The radiated emissions test was conducted in a fully-anechoic chamber.					
	2. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.					
	 Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emission spectrum plots of the EUT. 					
	4. The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.					
Test environment:	Temp.: 25 °C Humid.: 50% Press.: 1 010mbar					
Measurement Record:	Uncertainty: ± 4.5dB					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Below 1GHz

Bluetooth 3.0 Mode

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarity
39.99	26.22	15.58	0.66	30.04	12.42	40.00	-27.58	Vertical
55.61	25.49	14.97	0.82	29.95	11.33	40.00	-28.67	Vertical
99.18	25.60	15.13	1.18	29.70	12.21	40.00	-27.79	Vertical
230.91	24.35	13.67	2.02	29.48	10.56	47.00	-36.44	Vertical
406.09	24.01	17.18	2.88	29.49	14.58	47.00	-32.42	Vertical
640.61	24.79	20.60	3.87	29.26	20.00	47.00	-27.00	Vertical
40.14	25.97	15.58	0.66	30.04	12.17	40.00	-27.83	Horizontal
56.20	26.16	14.93	0.83	29.95	11.97	40.00	-28.03	Horizontal
106.76	25.62	14.54	1.25	29.65	11.76	40.00	-28.24	Horizontal
227.69	24.60	13.51	2.01	29.46	10.66	40.00	-29.34	Horizontal
417.64	24.66	17.43	2.93	29.46	15.56	47.00	-31.44	Horizontal
758.04	25.30	21.53	4.31	29.20	21.94	47.00	-25.06	Horizontal

Above 1GHz

Bluetooth 3.0 Mode

Peak measurement

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarity
1335.00	35.59	25.69	4.57	33.33	32.52	70.00	-37.48	Vertical
2210.00	35.39	27.97	5.19	34.23	34.32	70.00	-35.68	Vertical
3005.00	36.49	28.47	5.94	33.31	37.59	74.00	-36.41	Vertical
3655.00	32.43	29.19	7.25	32.58	36.29	74.00	-37.71	Vertical
4460.00	30.63	31.23	8.30	31.92	38.24	74.00	-35.76	Vertical
5355.00	30.20	31.75	9.31	32.36	38.90	74.00	-35.10	Vertical
1195.00	36.39	25.33	4.46	33.07	33.11	70.00	-36.89	Horizontal
2365.00	34.99	27.67	5.36	34.05	33.97	70.00	-36.03	Horizontal
3250.00	36.57	28.54	6.47	33.04	38.54	74.00	-35.46	Horizontal
3980.00	31.16	29.64	7.83	32.21	36.42	74.00	-37.58	Horizontal
4575.00	31.11	31.47	8.40	31.97	39.01	74.00	-34.99	Horizontal
5420.00	27.82	31.84	9.40	32.39	36.67	74.00	-37.33	Horizontal

Remark:

1. The EUT was test at 3m in field chamber.

2. If the average limit is met when using a Peak detector, the EUT shall be deemed to meet both peak and average limits. And measurement with the average detector is unnecessary.



7.2 Immunity

Performance Criteria of ETSI EN 301 489-17, sub clause 6.2 table 1.							
Criteria	During test	After test					
	Shall operate as intended.						
	May show degradation of	Shall operate as intended.					
_	performance	Shall be no degradation of performance (see note 2).					
A	(see note 1).	Shall be no loss of function.					
	Shall be no loss of function.	Shall be no loss of stored data or user programmable					
	Shall be no unintentional transmissions.	functions.					
	May show loss of function (one or more).	Functions shall be self-recoverable.					
_	May show degradation of	Shall operate as intended after recovering.					
В	performance	Shall be no degradation of performance (see note 2).					
	(see note 1).	Shall be no loss of stored data or user programmat					
	No unintentional transmissions.	functions.					
	May be loss of function (one or more).	Functions shall be recoverable by the operator.					
С		Shall operate as intended after recovering.					
		Shall be no degradation of performance (see note 2).					
NOTE 1:	minimum performance level specified b	test is understood as a degradation to a level not below a y the manufacturer for the use of the apparatus as ninimum performance level may be replaced by a e.					
1	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.						
NOTE 2:	NOTE 2: 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.						
1	he manufacturer then either of these ma	permissible performance degradation is not specified by ay be derived from the product description and lvertising) and what the user may reasonably expect from					



7.2.1 Electrostatic Discharge

Test Requirement:	ETSI EN 301 489-17
Test Method:	EN 61000-4-2
Discharge Voltage:	Contact Discharge: ±2kV, ±4kV
	Air Discharge: ±2kV, ±4kV, ±8kV
	HCP/VCP: ±2kV, ±4kV
Polarity:	Positive & Negative
Number of Discharge:	Contact Discharge: Minimum 25 times at each test point,
	Air Discharge: Minimum 10 times at each test point.
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum
Limit:	Criteria B
Test setup:	Electrostatic Discharge EUT VCP(0.5m*0.5m) 470K ohmInsulating Support(0.5mn) 470K ohmHCP(1.5m*0.8m) 470K ohmHCP(1.5m*0.8m) 470K ohmHCP(1.5m*0.8m) 470K ohmHCP(1.5m*0.8m) Ground Reference Plane
Test Procedure:	Air discharge:
	1. The test was applied on non-conductive surfaces of EUT.
	2. The round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT.
	3. After each discharge, the discharge electrode was removed from the EUT.
	 The generator was re-triggered for a new single discharge and repeated 10 times for each pre-selected test point.
	5. This procedure was repeated until all the air discharge completed
	Contact Discharge:
	1. The test was applied on conductive surfaces of EUT.
	2. the generator was re-triggered for a new single discharge and repeated 10 times for each pre-selected test point.
	the tip of the discharge electrode was touch the EUT before the discharge switch was operated.
	Indirect discharge for horizontal coupling plane
	 At least 10 single discharges shall be applied at the front edge of each HCP opposite the centre point of each unit of the EUT and 0.1m from the front of the EUT.



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	2. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.						
	3. Consideration should be given to exposing all sides of the EUT.						
	Indirect discharge for vertical coupling plane						
	1. At least 10 single discharges were applied to the center of one vertical edge of the coupling plane.						
	2. The coupling plane, of dimensions 0.5m X 0.5m, was placed parallel to, and positioned at a distance of 0.1m from the EUT.						
	3. Discharges were applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.						
Test environment:	Temp.: 24 °C Humid.: 51% Press.: 1 010mbar						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Pass						

Measurement Record:

Test points	I: N/A								
Test points:	II: switches, buttons, cra	II: switches, buttons, cracks							
Direct discharge									
Discharge Voltage (KV)	Type of discharge	Test points	Observations Performance	Result					
\pm 2, \pm 4	Contact	I	NA	N/A					
\pm 2, \pm 4, \pm 8	Air	11	А	Pass					
$\pm 2, \pm 4, \pm 0$	7	••							
Indirect discharge	<u> </u>	<u>.</u>							
· · ·	Type of discharge	Test points	Observation Performance	Result					
Indirect discharge Discharge Voltage (KV)		·	Performance	Result					
Indirect discharge Discharge	Type of discharge	Test points Edge of the HCP							
Indirect discharge Discharge Voltage (KV)	Type of discharge HCP-Bottom/Top/	·	Performance	Result					

Remark:

A: Normal performance within the specification limits.



Test Requirement: ETSI EN 301 489-17 Test Method: EN 61000-4-3 Frequency range: 80MHz to 1GHz, 1.4GHz to 2.7GHz Test Level: 3V/m Modulation: 80%, 1kHz Amplitude Modulation Performance Criterion: Criteria A Test setup: **Test Procedure:** 1. For table-top equipment, the EUT was placed in the chamber on a non-conductive table 0.8m high. For arrangement of floor-standing equipment, the EUT was mounted on a non-conductive support 0.1m above the supporting plane. For human body-mounted equipment, the EUT may be tested in the same manner as table top items. 2. If possible, a minimum of 1 m of cable is exposed to the electromagnetic field. Excess length of cables interconnecting units of the EUT shall be bundled low-inductively in the approximate center of the cable to form a bundle 30 cm to 40 cm in length. 3. The EUT was initially placed with one face coincident with the calibration plane. The EUT face being illuminated was contained within the UFA (Uniform Field Area). 4. The frequency ranges to be considered were swept with the signal modulated and pausing to adjust the RF signal level or to switch oscillators and antennas as necessary. Where the frequency range was swept incrementally, the step size was not exceed 1 % of the preceding frequency value. 5. The dwell time of the amplitude modulated carrier at each frequency was not be less than the time necessary for the EUT to be exercised and to respond, and was not less than 0,5 s. 6. The test normally was performed with the generating antenna facing each side of the EUT. 7. The polarization of the field generated by each antenna necessitates testing each selected side twice, once with the antenna positioned vertically and again with the antenna positioned horizontally. 8. The EUT was performed in a configuration to actual installation conditions, a video camera and/or a audio monitor were used to



	monitor the performance of the EUT.					
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1 010mbar					
Test Instruments:	Refer to see	ction 6.0 fo	r details			
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

Measurement Record:

Frequency	Level	Modulation	Antenna Polarization	EUT Face	Observations (Performance Criterion)
		1 kHz, 80 % Amp. Mod, 10 % increment, dwell time=3seconds	V H	Front	A A
			V		Α
			Н	Rear	Α
	3 V/m		V	1 - #	A
80 MHz-1 GHz			Н	Left	Α
1.4GHz-2.7GHz			V		Α
			Н	Right	Α
			V	Tak	Α
			Н	Тор	Α
			V		Α
			Н	Bottom	А

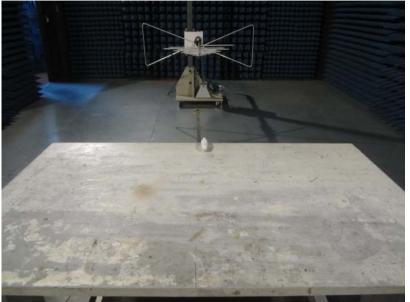
Remarks:

A: Normal performance within the specification limits.



8 Test Setup Photo

Radiated Emission







ESD



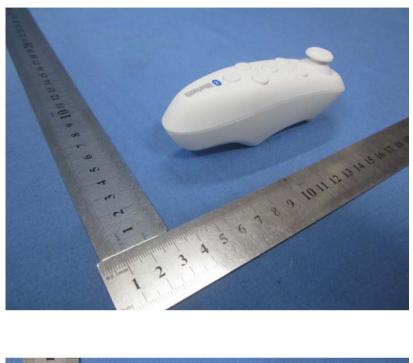


9 EUT Constructional Details









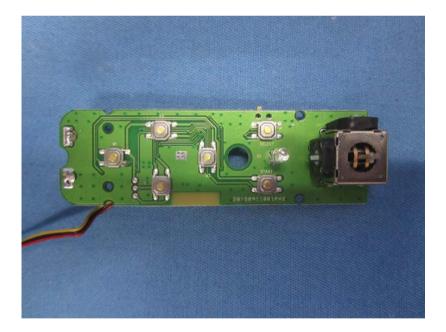




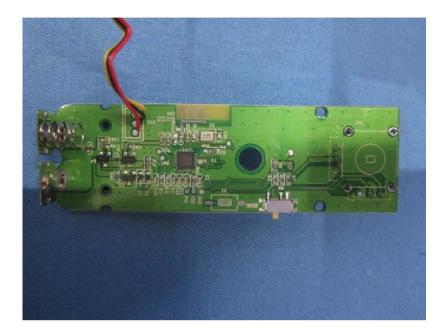












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