FCC Test Report

Report No.: AGC06924160501FE03

FCC ID : 2AFOYLEGFS-201

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: LeEco Wireless Arcade Joystick

BRAND NAME : LeEco

MODEL NAME : LeGFS-201

CLIENT : Le Shi Zhi Xin Electronic Technology (Tian jin) Limited

DATE OF ISSUE : Jun.18, 2016

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15 Rules

REPORT VERSION V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	Jun.18, 2016	Valid	Original Report

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1. VERIFICATION OF CONFORMITY

Applicant	Le Shi Zhi Xin Electronic Technology (Tian jin) Limited		
Address	201-427 2F B1 District, Anime building, No.126 Anime Middle Road, Eco-city Tianjin, China		
Manufacturer Le Shi Zhi Xin Electronic Technology (Tian jin) Limited			
Address 201-427 2F B1 District, Anime building, No.126 Anime Middle Road, E Tianjin, China			
Product Designation	LeEco Wireless Arcade Joystick		
Brand Name	LeEco		
Test Model	LeGFS-201		
Date of test	Jun.07, 2016 to Jun.08, 2016		
Deviation	None		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BR/RF		

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

Reviewed by

Reviewed by

Rock Huang(Huang Dinglue)

Solger Zhang(Zhang Hongyi)
Authorized Officer

Jun.18, 2016

Jun.18, 2016

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

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Operation Frequency	2.402GHz to 2.478GHz		
Maximum field strength	79.21dBuV/m@3m(AV)		
Modulation	GFSK		
Number of channels	77		
Antenna Gain	0dBi		
Antenna Designation	PCB Antenna (Met 15.203 Antenna requirement)		
Hardware Version	LBA-196-A-V1.1		
Software Version	N/A		
Power Supply	DC 3.7V by battery		

Note: The EUT is not active when charging.

The USB port is used for charging and can exchange data with PC.

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2.2. TABLE OF CARRIER FREQUENCY

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402	27	2428	53	2454
2	2403	28	2429	54	2455
3	2404	29	2430	55	2456
4	2405	30	2431	56	2457
5	2406	31	2432	57	2458
6	2407	32	2433	58	2459
7	2408	33	2434	59	2460
8	2409	34	2435	60	2461
9	2410	35	2436	61	2462
10	2411	36	2437	62	2463
11	2412	37	2438	63	2464
12	2413	38	2439	64	2465
13	2414	39	2440	65	2466
14	2415	40	2441	66	2467
15	2416	41	2442	67	2468
16	2417	42	2443	68	2469
17	2418	43	2444	69	2470
18	2419	44	2445	70	2471
19	2420	45	2446	71	2472
20	2421	46	2447	72	2473
21	2422	47	2448	73	2474
22	2423	48	2449	74	2475
23	2424	49	2450	75	2476
24	2425	50	2451	76	2477
25	2426	51	2452	77	2478
26	2427	52	2453		

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y $\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 % \circ

No.	Item	Uncertainty
1	Conducted Emission Test	±3.18dB
2	All emissions,radiated	±3.91dB
3	Temperature	±0.5°C
4	Humidity	±2%

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX in GFSK modulation
2	Middle channel TX in GFSK modulation
3	High channel TX in GFSK modulation
4	TX OFF

Note:

- 1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure :

EUT

5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	LeEco Wireless Arcade Joystick	LeGFS-201	FCC ID:2AFOYLEGFS-201	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.215	20dB bandwidth	Compliant

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6. TEST FACILITY

Site	Dongguan Precise Testing Service Co., Ltd.
Location Building D, Baoding Technology Park, Guangming Road2, Dongcheng Dis Dongguan, Guangdong, China.	
FCC Registration No.	371540
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.10:2013.

ALL TEST EQUIPMENT LIST

Radiated Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2015	July 3, 2016
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2015	July 3, 2016
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2015	July 3, 2016
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 3, 2016	June 2, 2017
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 3, 2016	June 2, 2017
Spectrum analyzer	Agilent	E4407B	MY46185649	June 3, 2016	June 2, 2017
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	June 3, 2016	June 2, 2017
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 3, 2016	June 2, 2017

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7. RADIATED EMISSION

7.1TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental	Field Strength of Harmonics	
	(millivolts/meter)	(microvolts/meter)	
900-928MHz	50	500	
2400-2483.5MHz	50	500	
5725-5875MHz	50	500	
24.0-24.25GHz	250	2500	

Standard FCC 15.209

Frequency	Distance	Field Strengths Limit			
(MHz)	Meters	μ V/m	dB(μV)/m		
0.009 ~ 0.490	300	2400/F(kHz)			
0.490 ~ 1.705	30	24000/F(kHz)			
1.705 ~ 30	30	30			
30 ~ 88	3	100	40.0		
88 ~ 216	3	150	43.5		
216 ~ 960	3	200	46.0		
960 ~ 1000	3	500	54.0		
Above 1000	3	Other:74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)			

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

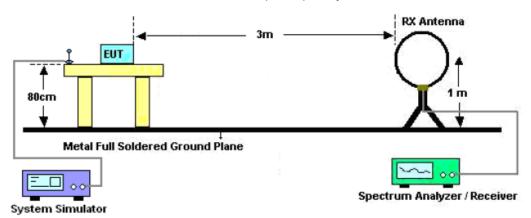
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

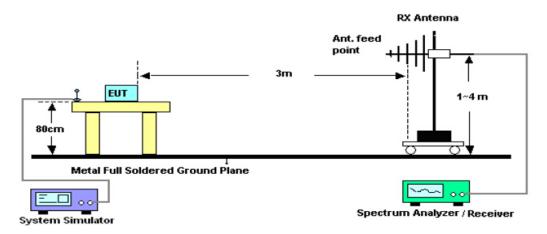
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7.3. TEST SETUP

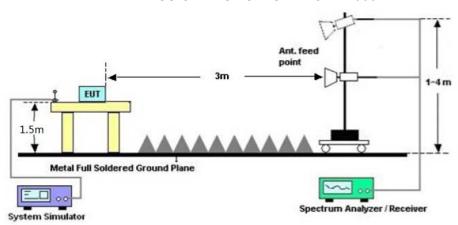
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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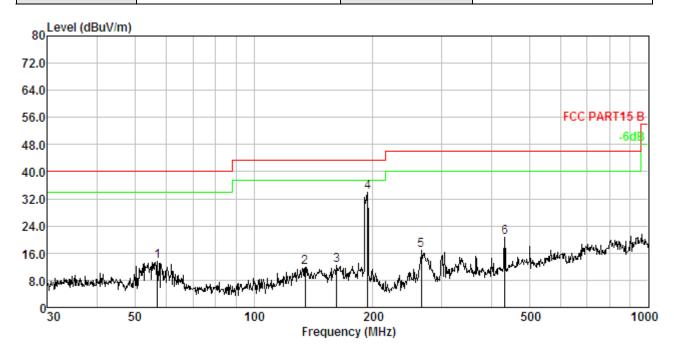
7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION 30MHz-1GHZ

EUT:	LeEco Wireless Arcade Joystick	Model Name. :	LeGFS-201
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 1	Polarization :	Horizontal

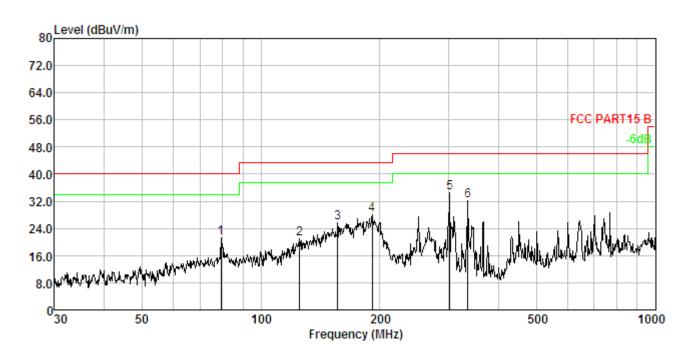


No.	Freq MHz	Cable Loss dB		Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	56.991	1.64	12.01	30.07	30.19	13.53	40.00	-26.47	Peak
2.	135.032	2.42	13.00	26.85	30.49	11.78	43.50	-31.72	Peak
3.	162.041	2.58	13.76	26.72	30.56	12.50	43.50	-31.00	Peak
4.	194.453	2.75	10.77	51.11	30.62	34.01	43.50	-9.49	Peak
5.	265.676	3.03	12.33	32.15	30.73	16.78	46.00	-29.22	Peak
6.	432.546	3.47	16.02	32.18	30.90	20.77	46.00	-25.23	Peak

RESULT: PASS

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EUT:	LeEco Wireless Arcade Joystick	Model Name. :	LeGFS-201
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 1	Polarization :	Vertical



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	O∨er Limit dB	Remark
1.	79.243	1.93	8.93	40.64	30.31	21.19	40.00	-18.81	Peak
2.	125.446	2.35	12.36	36.86	30.47	21.10	43.50	-22.40	Peak
3.	156.458	2.55	13.89	39.72	30.54	25.62	43.50	-17.88	Peak
4.	191.745	2.73	10.97	45.10	30.62	28.18	43.50	-15.32	Peak
5.	301.422	3.14	13.22	48.90	30.77	34.49	46.00	-11.51	Peak
6.	334.859	3.24	13.98	45.68	30.81	32.09	46.00	-13.91	Peak

RESULT: PASS

Note:

Factor=Antenna Factor + Cable loss, Margin=Result-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

The mode 1 is the worst case, and only the data of the worst case recorded in this test report.

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RADIATED EMISSION ABOVE 1GHZ

EUT:	LeEco Wireless Arcade Joystick	Model Name. :	LeGFS-201
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 1	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2402.013	98.45	-9.37	89.08	114	-24.92	peak
2402.013	88.58	-9.37	79.21	94	-14.79	AVG
4804.026	48.52	3.74	52.26	74	-21.74	peak
4804.026	38.24	3.74	41.98	54	-12.02	AVG
7206.039	42.57	8.14	50.71	74	-23.29	peak
7206.039 32.33 8.14 40.47 54 -13.53 AVG						
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT:	LeEco Wireless Arcade Joystick	Model Name. :	LeGFS-201
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 1	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
2402.013	96.74	-9.37	87.37	114	-26.63	peak		
2402.013	86.14	-9.37	76.77	94	-17.23	AVG		
4804.026	47.53	3.74	51.27	74	-22.73	peak		
4804.026	37.44	3.74	41.18	54	-12.82	AVG		
7206.039	7206.039 41.52 8.14 49.66 74 -24.34 peak							
7206.039	7206.039 31.48 8.14 39.62 54 -14.38 AVG							
Remark:								
Factor = Ante	enna Factor + Ca	able Loss – P	re-amplifier.					

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EUT:	LeEco Wireless Arcade Joystick	Model Name. :	LeGFS-201
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 2	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2441.016	98.42	-9.63	88.79	114	-25.21	peak
2441.016	87.94	-9.63	78.31	94	-15.69	AVG
4882.032	47.25	3.76	51.01	74	-22.99	peak
4882.032	37.02	3.76	40.78	54	-13.22	AVG
7323.048	42.15	8.17	50.32	74	-23.68	peak
7323.048	33.21	8.17	41.38	54	-12.62	AVG
Remark:						
Factor = Ante	-actor = Antenna Factor + Cable Loss – Pre-amplifier.					

EUT:	LeEco Wireless Arcade Joystick	Model Name. :	LeGFS-201
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 2	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2441.016	96.37	-9.63	86.74	114	-27.26	peak
2441.016	86.22	-9.63	76.59	94	-17.41	AVG
4882.032	46.33	3.76	50.09	74	-23.91	peak
4882.032	36.12	3.76	39.88	54	-14.12	AVG
7323.048	41.55	8.17	49.72	74	-24.28	peak
7323.048	32.07	8.17	40.24	54	-13.76	AVG
Remark:						
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.					

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EUT:	LeEco Wireless Arcade Joystick	Model Name. :	LeGFS-201
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 3	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2478.021	97.94	-9.61	88.33	114	-25.67	peak
2478.021	87.53	-9.61	77.92	94	-16.08	AVG
4956.042	48.21	3.83	52.04	74	-21.96	peak
4956.042	37.64	3.83	41.47	54	-12.53	AVG
7434.063	42.33	8.21	50.54	74	-23.46	peak
7434.063 32.64 8.21 40.85 54 -13.15 AVG						
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT:	LeEco Wireless Arcade Joystick	Model Name. :	LeGFS-201
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 3	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2478.021	95.88	-9.61	86.27	114	-27.73	peak
2478.021	85.34	-9.61	75.73	94	-18.27	AVG
4956.042	47.12	3.83	50.95	74	-23.05	peak
4956.042	36.87	3.83	40.7	54	-13.3	AVG
7434.063	41.86	8.21	50.07	74	-23.93	peak
7434.063 31.75 8.21 39.96 54 -14.04 AVG						
Remark:						
Factor = Ante	enna Factor + Ca	able Loss – P	re-amplifier.			

Note: Other emissions from 8G to 25 GHz are considered as ambient noise. No recording in the test report. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

The spurious emissions of mode 4 are considered as ambient noise. No recording in the test report.

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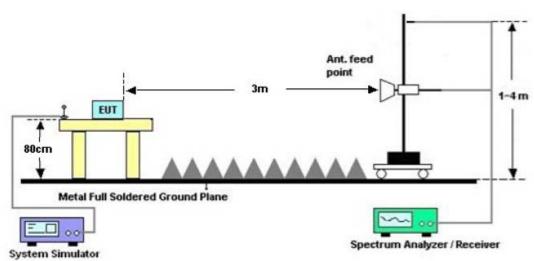
8. BAND EDGE EMISSION

8.1. MEASUREMENT PROCEDURE

- 1. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setp 1,and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
- (b) AVERAGE: RBW=1MHz; VBW=1/on time(1KHz) / Sweep=AUTO

8.2 TEST SETUP

RADIATED EMISSION TEST SETUP



8.3 RADIATED TEST RESULT

Note:

- 1. Factor=Antenna Factor + Cable loss Amplifier gain. Field Strength=Factor + Reading level
- 2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

EUT:	LeEco Wireless Arcade Joystick	Model Name. :	LeGFS-201
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 1	Polarization :	Horizontal

PK Value



AV Value



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EUT:	LeEco Wireless Arcade Joystick	Model Name. :	LeGFS-201
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 1	Polarization :	Vertical

PK Value



AV Value



EUT:	LeEco Wireless Arcade Joystick	Model Name. :	LeGFS-201
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 3	Polarization :	Horizontal

PK Value



AV Value



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EUT:	LeEco Wireless Arcade Joystick	Model Name. :	LeGFS-201
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 3	Polarization :	Vertical

PK Value



AV Value



Note:

Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

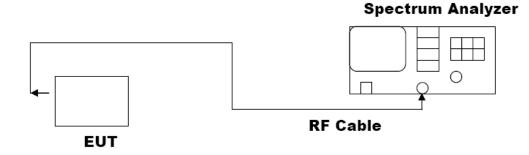
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9. 20DB BANDWIDTH

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 1% of SPAN, VBW≥ 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



9.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODE	Mode1;Mode2;Mode3

Test Data (MHz)		Criteria
Low Channel	1.191	PASS
Middle Channel	1.255	PASS
High Channel	1.798	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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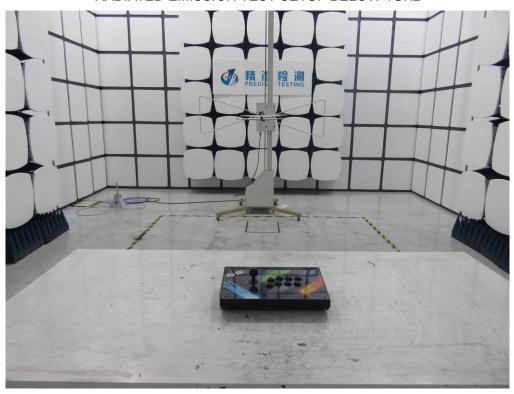
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



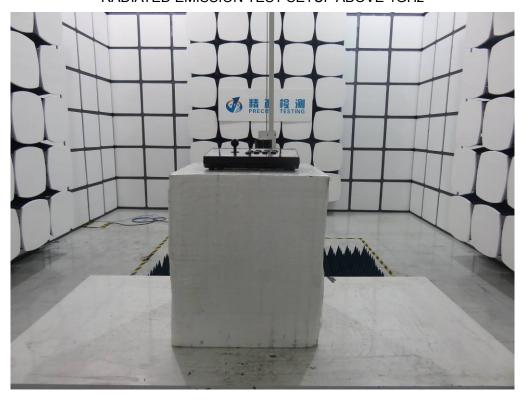
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHz



RADIATED EMISSION TEST SETUP ABOVE 1GHz



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APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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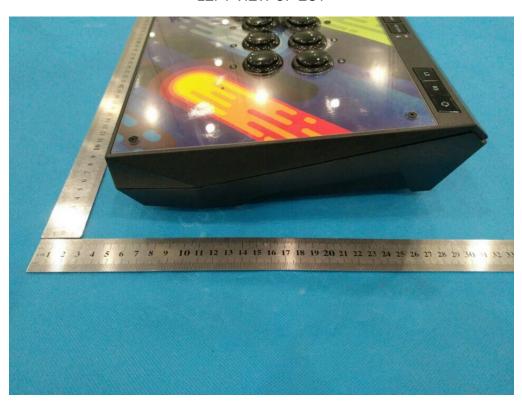
FRONT VIEW OF EUT



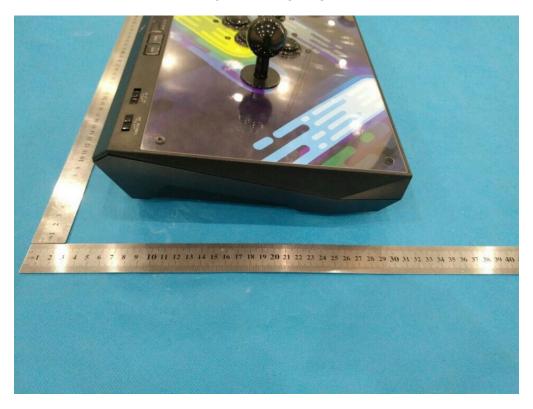
BACK VIEW OF EUT



LEFT VIEW OF EUT



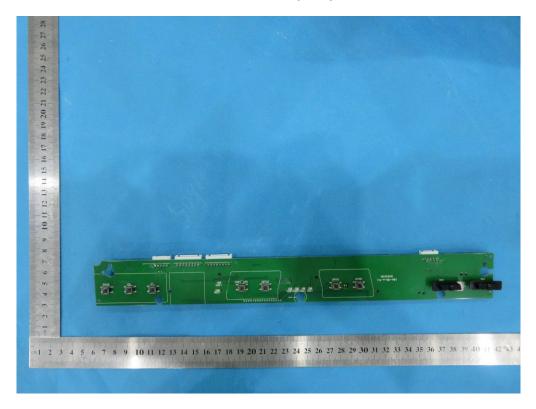
RIGHT VIEW OF EUT



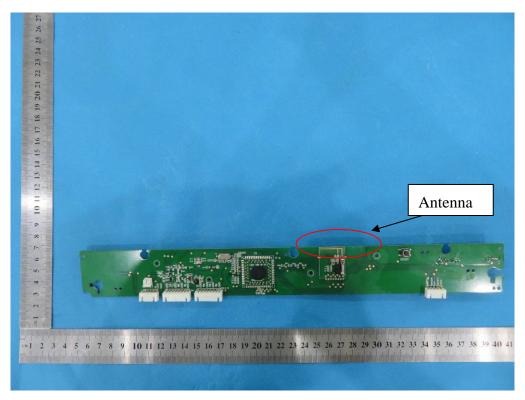
OPEN VIEW OF EUT



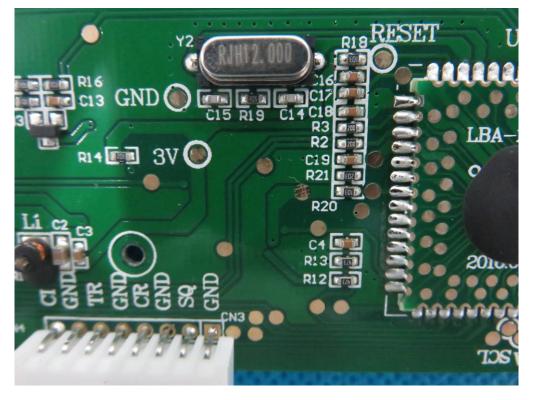
INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



----END OF REPORT----