# **FCC Test Report**

APPLICANT : BLU Products, Inc.

**EQUIPMENT**: Smart Phone

BRAND NAME : BLU
MODEL NAME : VIEW 1

FCC ID : YHLBLUB100DL

STANDARD : 47 CFR Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on Apr. 17, 2019 and testing was completed on May 14, 2019. We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.

Derreck Chen

Reviewed by: Derreck Chen / Supervisor

Fire Shih

Approved by: Eric Shih / Manager

Sporton International (ShenZhen) Inc.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055
People's Republic of China

Sporton International (Shenzhen) Inc.

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Cert #5145.01

**Report No. : FC941714** 

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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC941714	Rev. 01	Initial issue of report	Jun. 03, 2019

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## **SUMMARY OF TEST RESULT**

Report Section	FCC Rule	Description	Limit	Result	Remark		
					Under limit		
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	7.59 dB at		
					0.18 MHz		
	15.109 Radiated Emission						Under limit
2.0		45 400 11 11	DAGG	3.61 dB at			
3.2		15.109   Radiated Emission	< 15.109 limits	PASS	30.00 MHz		
					for Quasi-Peak		

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## 1. General Description

## 1.1. Applicant

**BLU Products, Inc.** 

10814 NW 33rd St # 100 Doral, FL 33172,USA

### 1.2. Product Feature of Equipment Under Test

Product Feature						
Equipment	Smart Phone					
Brand Name	BLU					
Model Name	VIEW 1					
FCC ID	YHLBLUB100DL					
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/HSPA+/LTE WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth BR/EDR/LE GNSS/FM Receiver					
IMEI Code	Conduction: 356074100004311 Radiation: 356074100020267					
HW Version	V1.0					
SW Version	BLU_B100DL_V9.0.01.05.01.06_GENERIC_FSec					
EUT Stage	Production Unit					

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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## 1.3. Product Specification of Equipment Under Test

Standards-related Product Specification					
Otariuarus	GSM850: 824.2 MHz ~ 848.8 MHz				
	GSM1900: 1850.2 MHz ~ 1909.8MHz				
	WCDMA Band V: 826.4 MHz ~ 846.6 MHz				
	WCDMA Band IV : 1712.4 MHz ~ 1752.6 MHz				
	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz				
	LTE Band 2: 1850.7 MHz ~ 1909.3 MHz				
T., F.,	LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz				
Tx Frequency	LTE Band 5 : 824.7 MHz ~ 848.3 MHz				
	LTE Band 12 : 699.7 MHz ~ 715.3 MHz				
	LTE Band 13 : 779.5 MHz ~ 784.5 MHz				
	LTE Band 66 : 1710.7 MHz ~ 1779.3 MHz				
	LTE Band 71: 665.5 MHz ~ 695.5MHz				
	802.11b/g/n: 2412 MHz ~ 2462 MHz				
	Bluetooth: 2402 MHz ~ 2480 MHz				
	GSM850: 869.2 MHz ~ 893.8 MHz				
	GSM1900: 1930.2 MHz ~ 1989.8 MHz				
	WCDMA Band V: 871.4 MHz ~ 891.6 MHz				
	WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz				
	WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz				
	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz				
	LTE Band 4: 2110.7 MHz ~ 2154.3 MHz				
Rx Frequency	LTE Band 5 : 869.7 MHz ~ 893.3 MHz				
100 Trequency	LTE Band 12 : 729.7 MHz ~ 745.3 MHz				
	LTE Band 13 : 748.5 MHz ~ 753.5 MHz				
	LTE Band 66 : 2110.7 MHz~ 2179.3 MHz				
	LTE Band 71: 619.5 MHz ~ 649.5MHz				
	802.11b/g/n: 2412 MHz ~ 2462 MHz				
	Bluetooth: 2402 MHz ~ 2480 MHz				
	GNSS: 1559 MHz ~ 1610 MHz				
	FM: 88 MHz - 108 MHz				
	WWAN: PIFA Antenna				
Antenna Type	Bluetooth /WLAN /GNSS : PIFA Antenna				
	FM : External Handset Antenna				
	GSM: GMSK				
	GPRS: GMSK				
	EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK				
	WCDMA: BPSK				
	HSPA: QPSK				
	HSPA+: 16QAM				
	DC-HSDPA: 64QAM				
Type of Modulation	LTE: QPSK / 16QAM / 64QAM				
1.750 or modulation	802.11b: DSSS (DBPSK / DQPSK / CCK)				
	802.11g/n: OFDM (BPSK/QPSK/16QAM/64QAM)				
	Bluetooth LE : GFSK				
	Bluetooth (1Mbps) : GFSK				
	Bluetooth (2Mbps) : π /4-DQPSK				
	Bluetooth (3Mbps) : 8-DPSK				
	GNSS: BPSK				
	FM				

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Note: GNSS = GLONASS + GPS

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#### 1.4. Modification of EUT

No modifications are made to the EUT during all test items.

#### 1.5. Test Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.							
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589							
	FAX: +86-755-86379595							
Toot Site No	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.					
Test Site No.	CO01-SZ	CN1256	421272					
Test Firm Sporton International (Shenzhen) Inc.								
	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan							

Test Firm	Sporton International (Shenzhen) Inc.					
	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan					
Test Site Location	Shenzhen, 518055 People's Republic of China					
	TEL: +86-755-3320-2398	3				
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.			
rest site No.	03CH03-SZ	CN1256	421272			

## 1.6. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart B
- ANSI C63.4-2014

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

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## 2. Test Configuration of Equipment Under Test

#### 2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
	Mode 1: GSM850 Idle (Middle) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + USB Cable (Charging from Adapter) + Earphone
	Mode 2: LTE Band 71 Idle (Middle) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + USB Cable (Charging from Adapter) + Earphone
AC Conducted	Mode 3: LTE Band 13 Idle (low) + Bluetooth Idle + WLAN (2.4G) Idle + MPEG4 (Colur bar) + USB Cable (Charging from Adapter) + Earphone
Emission	Mode 4: LTE Band 2 Idle (High) + Bluetooth Idle + WLAN (2.4G) Idle + H- Pattan + USB Cable (Charging from Adapter) + Earphone
	Mode 5: LTE Band 4 Idle (Middle) + Bluetooth Idle + WLAN (2.4G) Idle + FM(98MHz) Rx + USB Cable (Charging from Adapter) + Earphone
	Mode 6: LTE Band 12 Idle (Middle) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS RX + USB Cable (Data Link with Notebook) + Earphone
	Mode 1: GSM850 Idle (Middle) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + USB Cable (Charging from Adapter) + Earphone
	Mode 2: LTE Band 71 Idle (Middle) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + USB Cable (Charging from Adapter) + Earphone
Radiated	Mode 3: LTE Band 13 Idle (low) + Bluetooth Idle + WLAN (2.4G) Idle + MPEG4 (Colur bar) + USB Cable (Charging from Adapter) + Earphone
Emissions	Mode 4: LTE Band 2 Idle (High) + Bluetooth Idle + WLAN (2.4G) Idle + H- Pattan + USB Cable (Charging from Adapter) + Earphone
	Mode 5: LTE Band 4 Idle (Middle) + Bluetooth Idle + WLAN (2.4G) Idle + FM(98MHz) Rx + USB Cable (Charging from Adapter) + Earphone
	Mode 6: LTE Band 12 Idle (Middle) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS RX + USB Cable (Data Link with Notebook) + Earphone

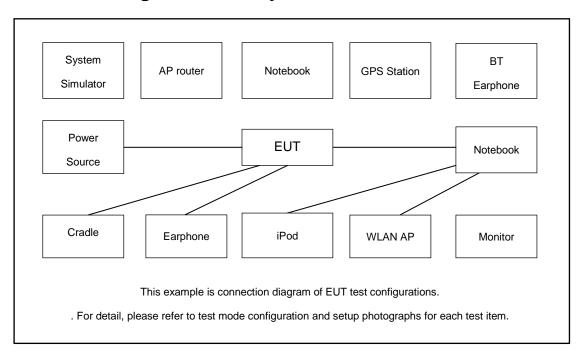
#### Remark:

- 1. The worst case of AC is mode 6; only the test data of this mode is reported.
- 2. The worst case of RE is mode 1; only the test data of this mode is reported.
- Data Link with Notebook means data application transferred mode between EUT and Notebook.

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## 2.2. Connection Diagram of Test System



### 2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station(LTE)	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	LABS ATGPS Simulator	RACELOGIC	RLLS03-2P	Fcc DoC	N/A	Unshielded,1.8m
3.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A
4.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
5.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,2.7m with Core
6.	NOTE BOOK	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
7.	Labsat	RACELOGIC	18645	N/A	N/A	Unshielded, 1.8 m
8.	FM Base Station	R&S	SMB100A	N/A	N/A	Unshielded,1.8m
9.	iPod	Apple	MC69029/A	N/A	N/A	Unshielded,1.8m
10.	IPod	Apple	MC525 ZP/A	Fcc DoC	Shielded, 1.0m	N/A
11.	SD Card	Kingston	3300-10000-078	Fcc DoC	N/A	N/A
12.	SD Card	N/A	MicroSD HC	FCC DoC	N/A	N/A

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### 2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Data application is transferred between Notebook and EUT via USB cable.
- 2. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.
- 3. Turn on camera to capture images.
- 4. Turn on MPEG4 function.
- 5. Execute "H Pattern" to show H Pattern via HDMI Cable on the Monitor.
- 6. Turn on FM Function.

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#### 3. Test Result

#### 3.1. Test of AC Conducted Emission Measurement

#### 3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

#### <Class B Limit>

Frequency of emission	Conducted limit (dBuV)			
(MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		

<sup>\*</sup>Decreases with the logarithm of the frequency.

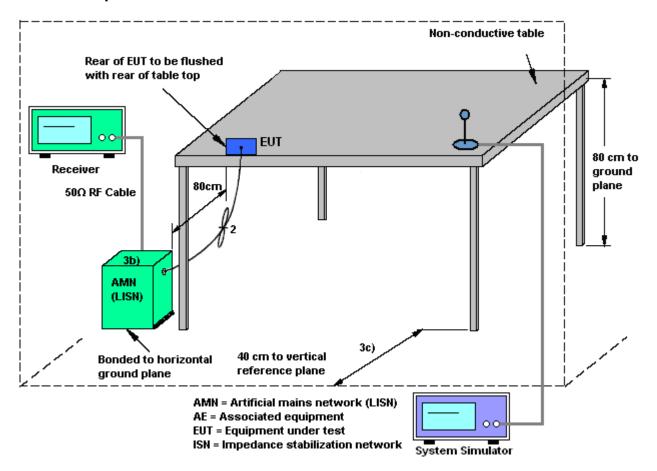
#### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

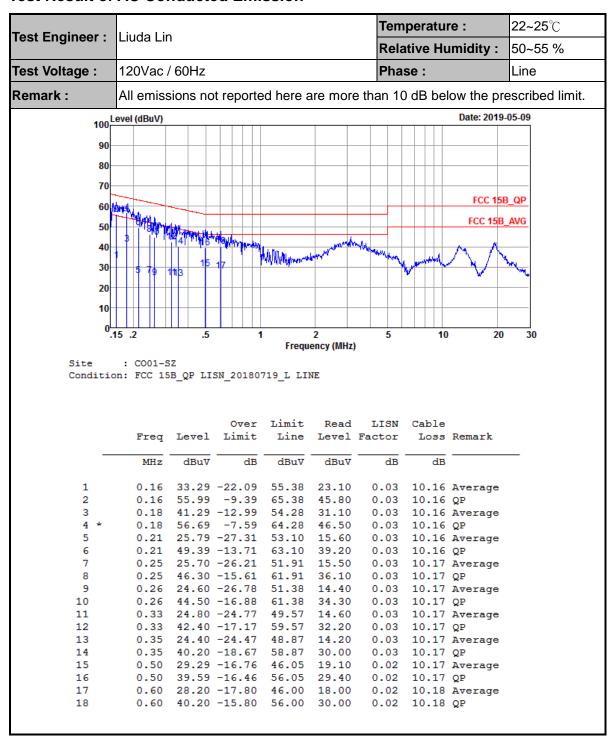
#### 3.1.4 Test Setup



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#### 3.1.5 Test Result of AC Conducted Emission

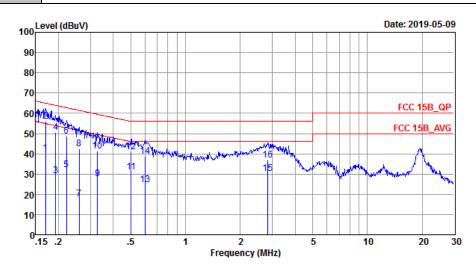


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Test Engineer :	Liuda Lin	Temperature : 22~25°C		
rest Engineer.		Relative Humidity :	50~55 %	
Test Voltage :	120Vac / 60Hz	Phase :	Neutral	
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.			



: CO01-SZ

Condition: FCC 15B\_QP LISN\_20180719\_N NEUTRAL

				Over	Limit	Read	LISN	Cable	
		Freq	Level	Limit	Line	Level	Factor	Loss	Remark
		MHz	dBuV	dB	dBuV	dBu₹	dB	dB	
1		0.17	40.39	-14.55	54.94	30.20	0.03	10.16	Average
2	*	0.17	56.19	-8.75	64.94	46.00	0.03	10.16	QP
3		0.19	28.99	-24.90	53.89	18.80	0.03	10.16	Average
4		0.19	50.59	-13.30	63.89	40.40	0.03	10.16	QP
5		0.22	32.09	-20.65	52.74	21.90	0.03	10.16	Average
6		0.22	48.69	-14.05	62.74	38.50	0.03	10.16	QP
7		0.26	17.80	-33.62	51.42	7.60	0.03	10.17	Average
8		0.26	42.30	-19.12	61.42	32.10	0.03	10.17	QP
9		0.33	27.50	-21.99	49.49	17.30	0.03	10.17	Average
10		0.33	41.20	-18.29	59.49	31.00	0.03	10.17	QP
11		0.50	30.89	-15.11	46.00	20.70	0.02	10.17	Average
12		0.50	40.89	-15.11	56.00	30.70	0.02	10.17	QP
13		0.60	24.80	-21.20	46.00	14.60	0.02	10.18	Average
14		0.60	38.90	-17.10	56.00	28.70	0.02	10.18	QP
15		2.84	30.23	-15.77	46.00	20.00	0.03	10.20	Average
16		2.84	36.83	-19.17	56.00	26.60	0.03	10.20	QP

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### **Test of Radiated Emission Measurement**

#### 3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

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#### <Class B Limit>

Frequency	Field Strength	Measurement Distance	
(MHz)	(microvolts/meter)	(meters)	
30 – 88	100	3	
88 – 216	150	3	
216 - 960	200	3	
Above 960	500	3	

### 3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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#### 3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

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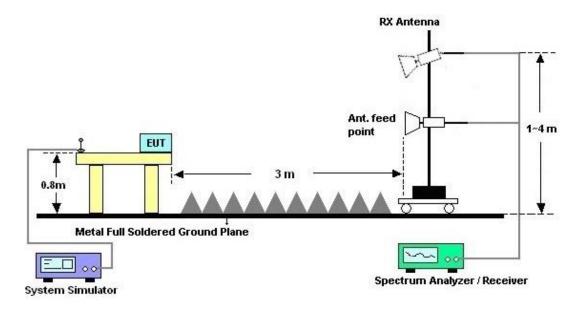
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### 3.2.4. Test Setup of Radiated Emission

#### For radiated emissions from 30MHz to 1GHz



#### For radiated emissions above 1GHz

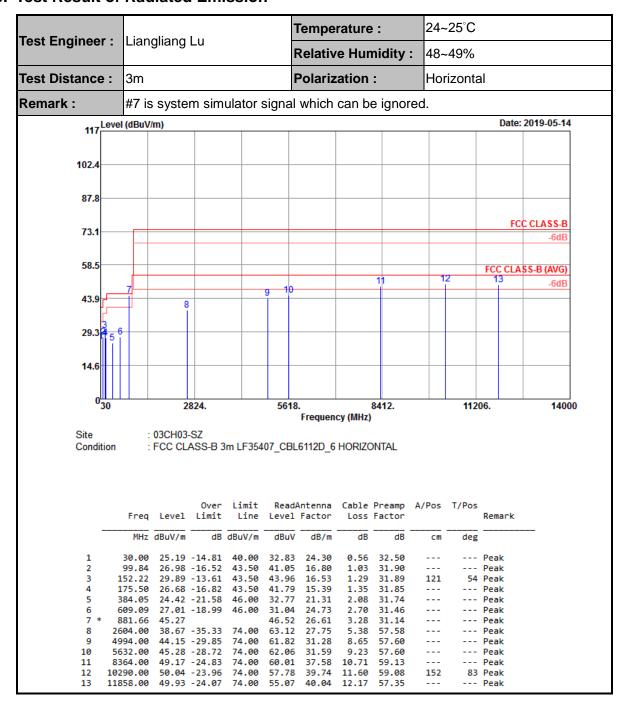


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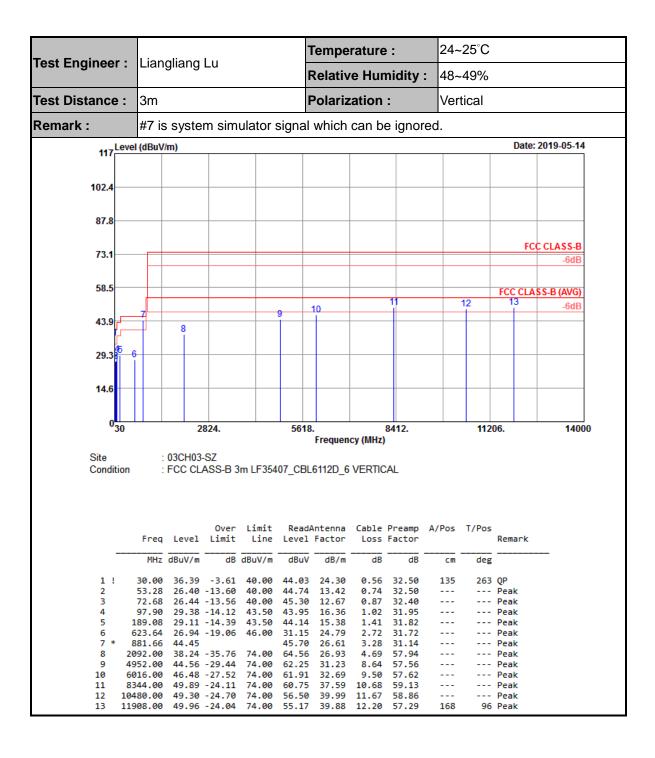
#### 3.2.5. Test Result of Radiated Emission



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## 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Dec. 23, 2018	May 09, 2019	Dec. 22, 2019	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Oct. 18, 2018	May 09, 2019	Oct. 17, 2019	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Dec. 23, 2018	May 09, 2019	Dec. 22, 2019	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Jul. 18, 2018	May 09, 2019	Jul. 17, 2019	Conduction (CO01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2018	May 14, 2019	Oct. 18, 2019	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 19, 2019	May 14, 2019	Apr. 18, 2020	Radiation (03CH03-SZ
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jun. 05, 2018	May 14, 2019	Jun. 04, 2019	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 07, 2019	May 14, 2019	Jan. 06, 2020	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Mar. 30, 2019	May 14, 2019	Mar. 29, 2020	Radiation (03CH03-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2018	May 14, 2019	Oct. 17, 2019	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1707137	1GHz~18GHz	Oct. 20, 2018	May 14, 2019	Oct. 19, 2019	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz	Jul. 16, 2018	May 14, 2019	Jul. 25, 2019	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	May 14, 2019	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 14, 2019	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 14, 2019	NCR	Radiation (03CH03-SZ)

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## 5. Uncertainty of Evaluation

#### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2.6dB
of 95% (U = 2Uc(y))	2.000

#### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	5 O.J.D.
of 95% (U = 2Uc(y))	5.0dB

#### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence	4.8dB
of 95% (U = 2Uc(y))	4.0UD

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