



# FCC Test Report

**APPLICANT** : Fibocom Wireless Inc.  
**EQUIPMENT** : LTE Module  
**BRAND NAME** : Fibocom  
**MODEL NAME** : L860-GL-16  
**FCC ID** : ZMOL860GL16  
**STANDARD** : 47 CFR Part 15 Subpart B  
**CLASSIFICATION** : Certification

The product was received on Oct. 30, 2020 and testing was completed on Jan. 12, 2021. We, Sporton International (Kunshan) 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 (Kunshan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Jason Jia / Supervisor

Approved by: James Huang / Manager



**Sporton International (Kunshan) Inc.**

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China



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### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 18.51 dB at 0.654 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 6.10 dB at 54.250 MHz

<b>Declaration of Conformity:</b>
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
<b>Comments and Explanations:</b>
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



# 1. General Description

## 1.1. Applicant

**Fibocom Wireless Inc.**

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

## 1.2. Manufacturer

**Fibocom Wireless Inc.**

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

## 1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	LTE Module
Brand Name	Fibocom
Model Name	L860-GL-16
FCC ID	ZMOL860GL16
EUT supports Radios application	WCDMA/LTE/GNSS
HW Version	V1.3
SW Version	18601.5001.00.01.01.01
EUT Stage	Identical Prototype

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

## 1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
<b>Tx Frequency</b>	WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV : 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 14 : 788 MHz ~ 798 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 25 : 1850 MHz ~ 1915 MHz LTE Band 26 : 814 MHz ~ 849 MHz LTE Band 30 : 2305 MHz ~ 2315 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz



	LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 48 : 3550 MHz ~ 3700 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz
<b>Rx Frequency</b>	WCDMA Band II: 1930 MHz ~ 1990 MHz WCDMA Band IV : 2110 MHz ~ 2155 MHz WCDMA Band V: 869 MHz ~ 894 MHz LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 14 : 758 MHz ~ 768 MHz LTE Band 17 : 734 MHz ~ 746 MHz LTE Band 25 : 1930 MHz ~ 1995 MHz LTE Band 26 : 859 MHz ~ 894 MHz LTE Band 29 : 717 MHz ~ 728 MHz LTE Band 30 : 2350 MHz ~ 2360 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 48 : 3550 MHz ~ 3700 MHz LTE Band 66 : 2110 MHz~ 2180 MHz LTE Band 71: 617 MHz ~ 652 MHz GNSS : 1559 MHz ~ 1610 MHz
<b>Antenna Type</b>	WWAN : PIFA Antenna GNSS: Ceramic Antenna
<b>Type of Modulation</b>	WCDMA : BPSK HSPA : QPSK HSPA+ : 16QAM DC-HSDPA : 64QAM LTE: QPSK / 16QAM / 64QAM GNSS : BPSK

### 1.5. Modification of EUT

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



### 1.6. Test Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International (Kunshan) Inc.		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	CO01-KS 03CH06-KS	CN1257	314309

### 1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH06-KS	AUDIX	E3	6.2009-8-24al
2.	CO01-KS	AUDIX	E3	6.2009-8-24

### 1.8. 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.



## 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

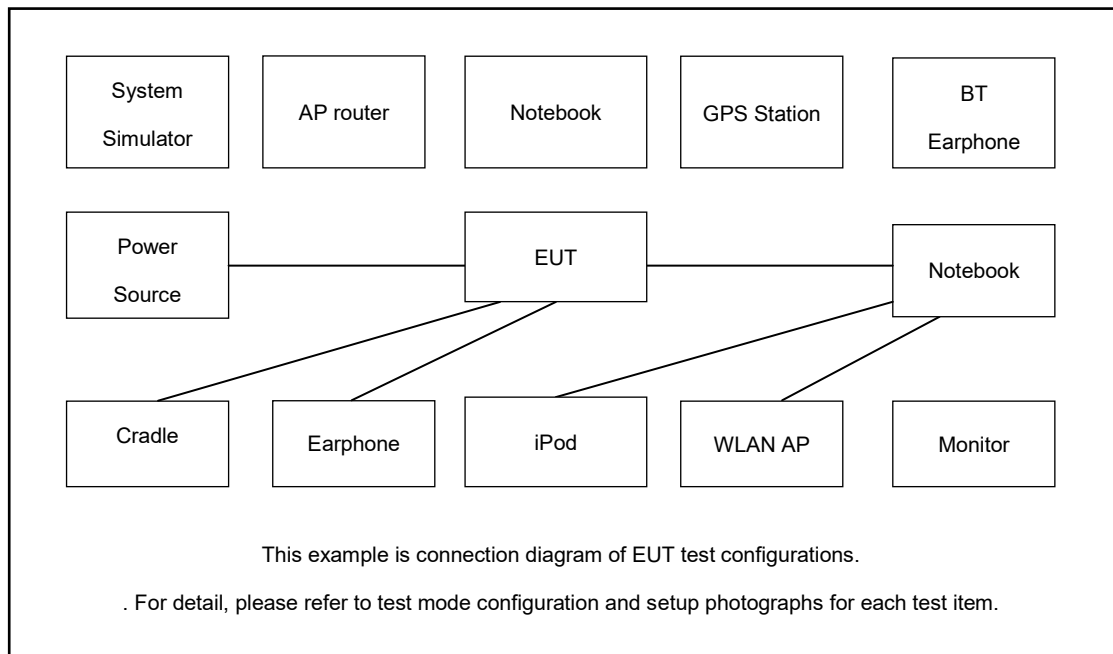
The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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
AC Conducted Emission	Mode 1: WCDMA FDD V Rx(Middle) + Adaptor With test jig + GNSS Rx Mode 2: WCDMA FDD II Rx + Adaptor With test jig + GNSS Rx Mode 3: LTE Band 12 Rx(Middle) + Adaptor With test jig + GNSS Rx Mode 4: LTE Band 13 Rx(High) + Adaptor With test jig + GNSS Rx Mode 5: LTE Band 26 Rx(Low) + Adaptor With test jig + GNSS Rx Mode 6: LTE Band 71 Rx(Middle) + Adaptor With test jig + GNSS Rx Mode 7: LTE Band 48 Rx + Adaptor With test jig + GNSS Rx
Radiated Emissions	Mode 1: WCDMA FDD V Rx(Middle) + Adaptor With test jig + GNSS Rx Mode 2: WCDMA FDD II Rx + Adaptor With test jig + GNSS Rx Mode 3: LTE Band 12 Rx(Middle) + Adaptor With test jig + GNSS Rx Mode 4: LTE Band 13 Rx(High) + Adaptor With test jig + GNSS Rx Mode 5: LTE Band 26 Rx(Low) + Adaptor With test jig + GNSS Rx Mode 6: LTE Band 71 Rx(Middle) + Adaptor With test jig + GNSS Rx Mode 7: LTE Band 48 Rx + Adaptor With test jig + GNSS Rx
<b>Remark:</b> <ol style="list-style-type: none"> <li>1. The worst case of AC is mode 3; only the test data of this mode is reported.</li> <li>2. The worst case of RE is mode 3; only the test data of this mode is reported.</li> <li>3. Pre-scanned Low/Middle/High channel for the band of below 1G, the worst channel was recorded in this report.</li> <li>4. GNSS Rx = BDS Rx + Galileo Rx + GPS Rx</li> </ol>	



## 2.2. Connection Diagram of Test System



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

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

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	Signal Generator	R&S	SMBV100A	N/A	N/A	Unshielded,1.8m
3.	Test jig	N/A	N/A	N/A	N/A	N/A

## 2.4. EUT Operation Test Setup

The EUT was in 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.

1. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.

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

\*Decreases with the logarithm of the frequency.

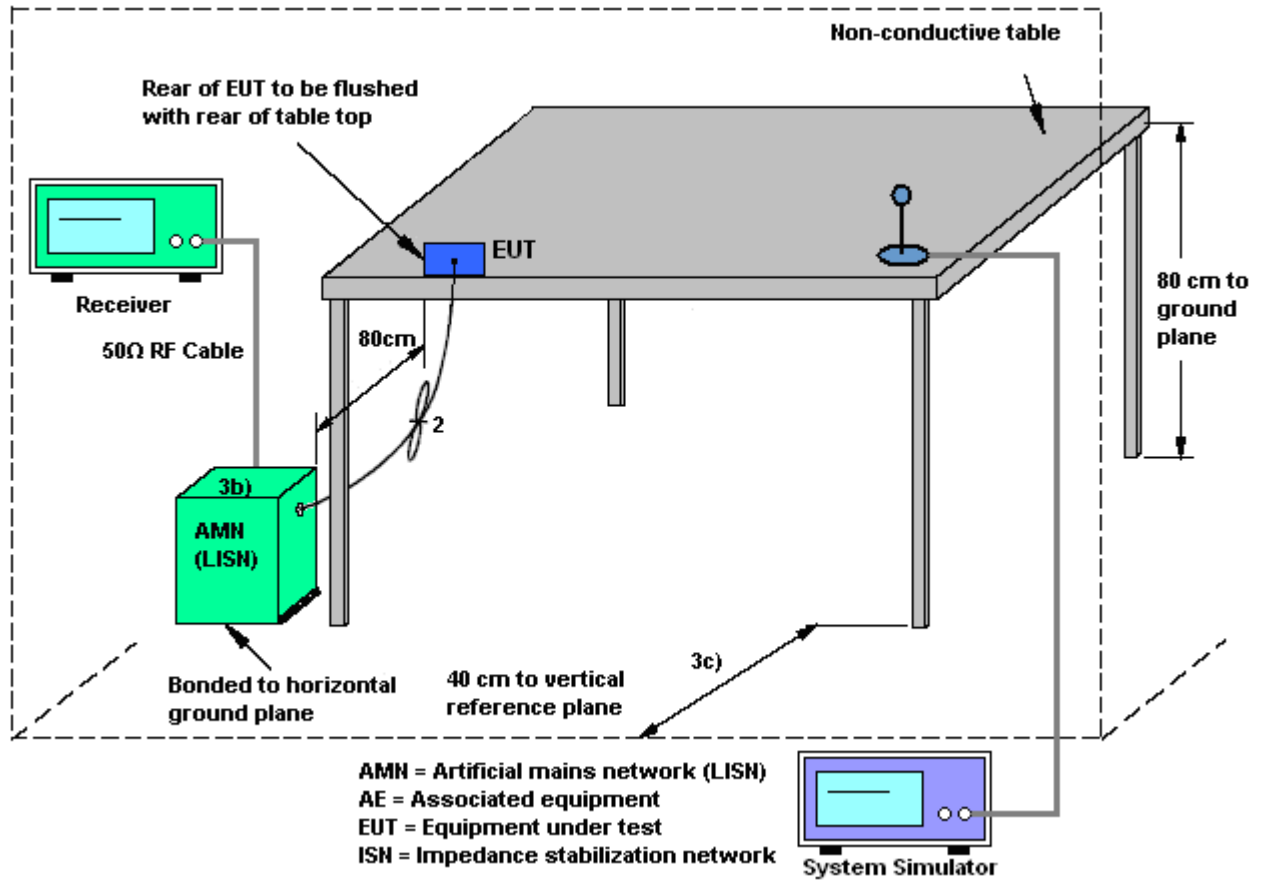
##### 3.1.2 Measuring Instruments

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.

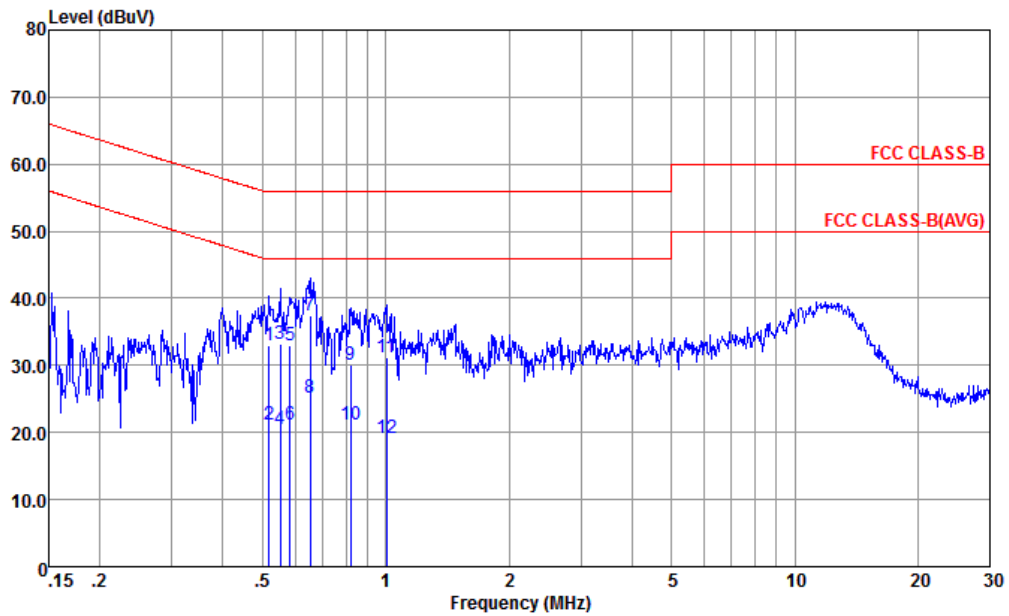
### 3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

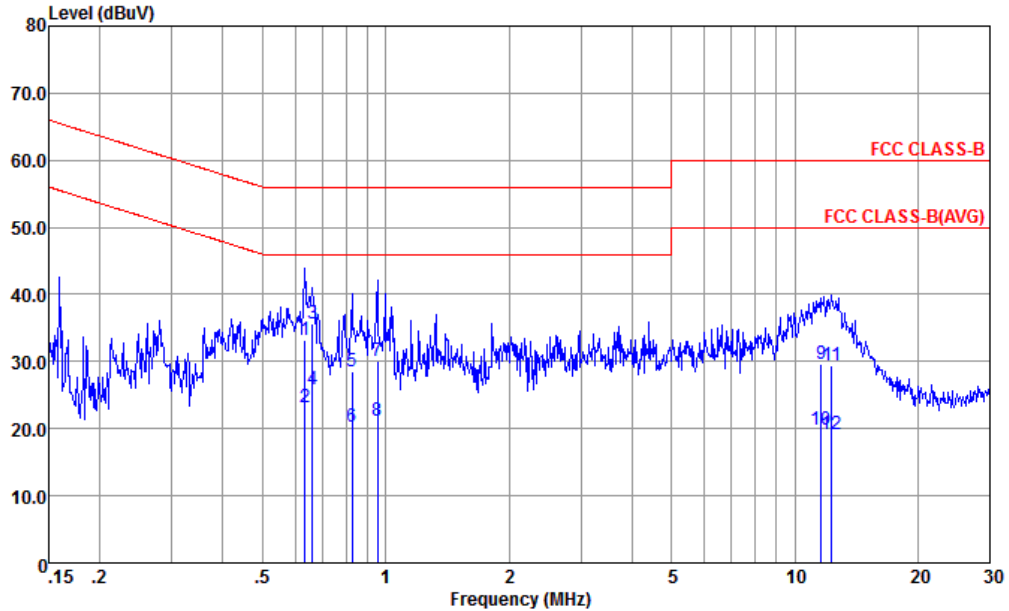


Site : CO01-KS  
 Condition : FCC CLASS-B TWO-LISN-CN02-L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.518	33.09	-22.91	56.00	13.20	9.65	10.24	QP
2	0.518	21.09	-24.91	46.00	1.20	9.65	10.24	Average
3	0.552	33.19	-22.81	56.00	13.30	9.65	10.24	QP
4	0.552	20.49	-25.51	46.00	0.60	9.65	10.24	Average
5	0.582	33.09	-22.91	56.00	13.20	9.65	10.24	QP
6	0.582	21.09	-24.91	46.00	1.20	9.65	10.24	Average
7 *	0.654	37.49	-18.51	56.00	17.59	9.66	10.24	QP
8	0.654	25.19	-20.81	46.00	5.29	9.66	10.24	Average
9	0.822	30.12	-25.88	56.00	10.20	9.68	10.24	QP
10	0.822	21.22	-24.78	46.00	1.30	9.68	10.24	Average
11	1.005	31.14	-24.86	56.00	11.20	9.71	10.23	QP
12	1.005	19.14	-26.86	46.00	-0.80	9.71	10.23	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS  
 Condition : FCC CLASS-B TWO-LISN-CN02-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.634	33.26	-22.74	56.00	13.29	9.73	10.24	QP
2	0.634	23.16	-22.84	46.00	3.19	9.73	10.24	Average
3	0.661	35.56	-20.44	56.00	15.59	9.73	10.24	QP
4 *	0.661	25.76	-20.24	46.00	5.79	9.73	10.24	Average
5	0.826	28.56	-27.44	56.00	8.60	9.72	10.24	QP
6	0.826	20.26	-25.74	46.00	0.30	9.72	10.24	Average
7	0.953	30.15	-25.85	56.00	10.20	9.71	10.24	QP
8	0.953	21.25	-24.75	46.00	1.30	9.71	10.24	Average
9	11.621	29.69	-30.31	60.00	8.60	10.73	10.36	QP
10	11.621	19.79	-30.21	50.00	-1.30	10.73	10.36	Average
11	12.318	29.37	-30.63	60.00	8.20	10.80	10.37	QP
12	12.318	19.07	-30.93	50.00	-2.10	10.80	10.37	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



### 3.2. 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:

<Class B Limit>

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

#### 3.2.2. Measuring Instruments

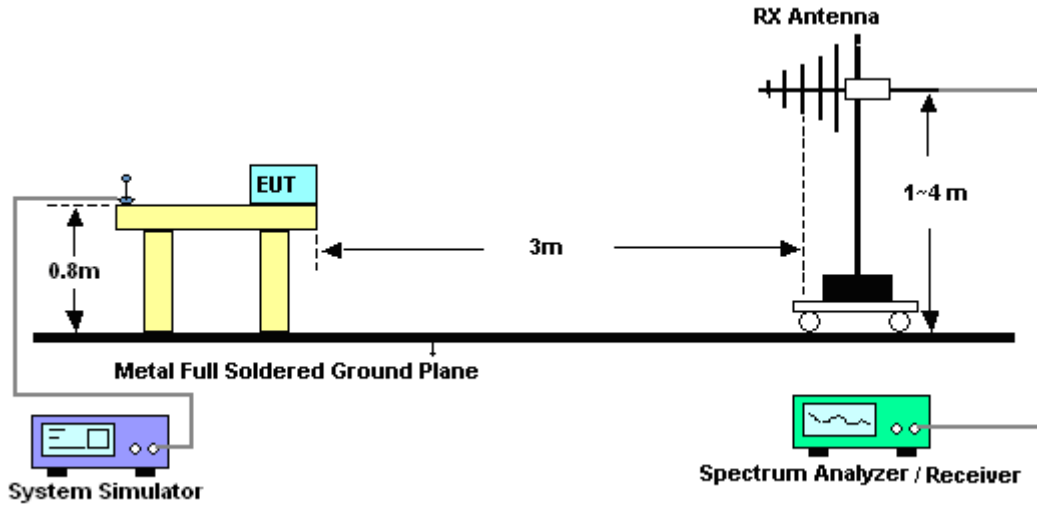
The measuring equipment is listed in the section 4 of this test report.

#### 3.2.3. Test Procedures

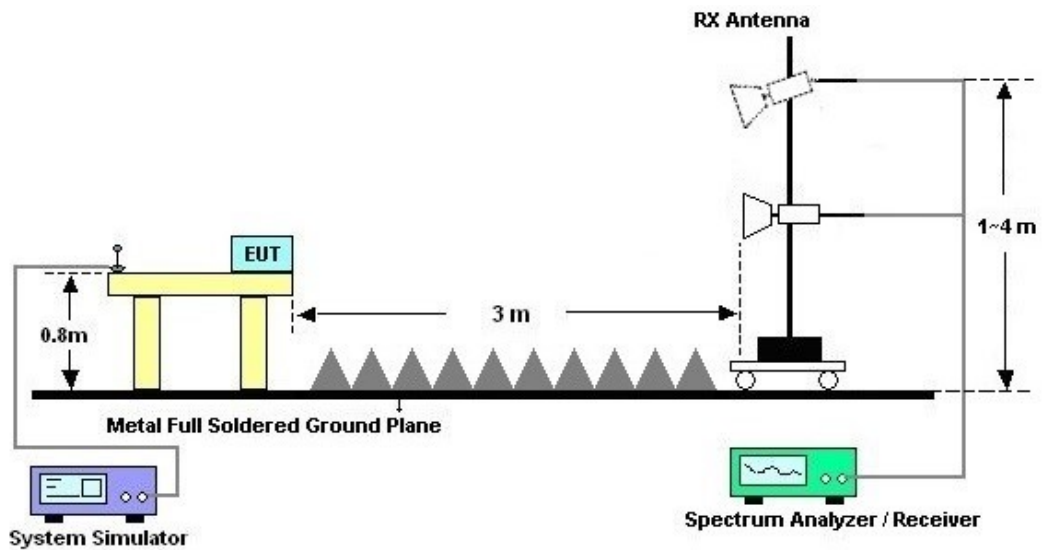
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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 (dBµV/m) = 20 log Emission level (µV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

### 3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



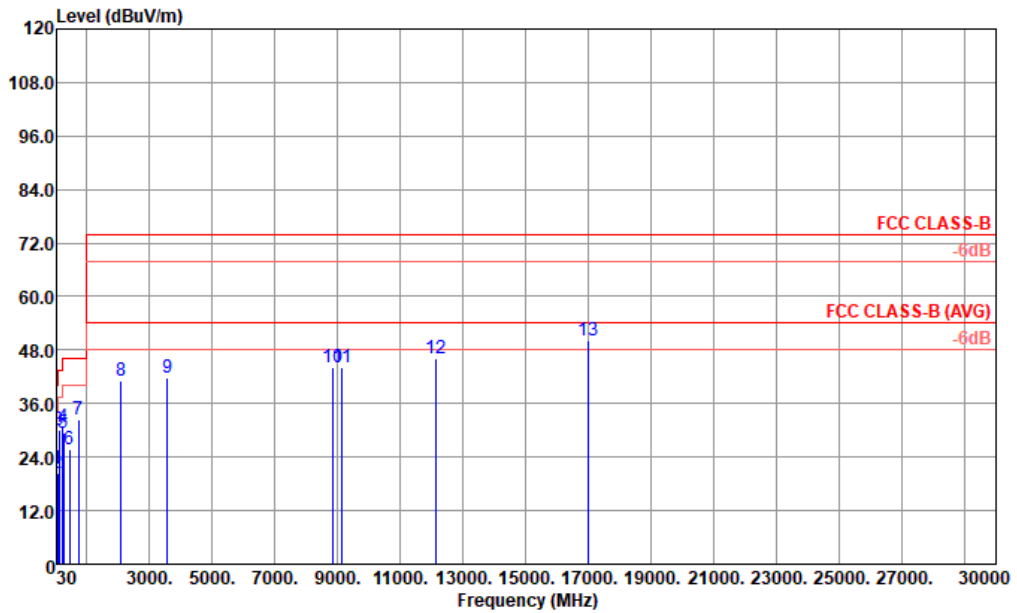
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Engineer :	wang	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#7 is system simulator signal which can be ignored.		



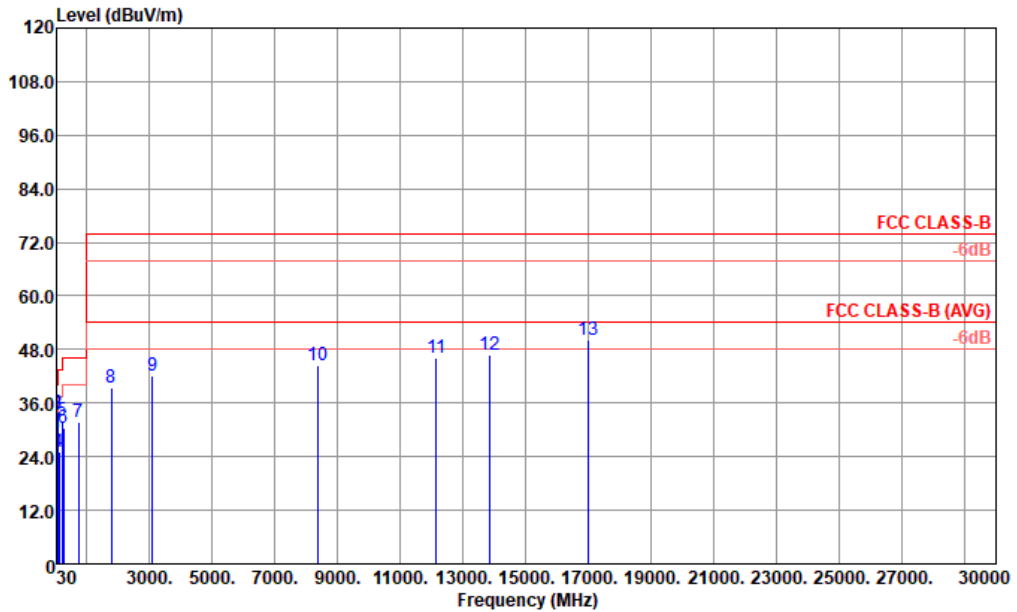
Site : 03CH06-KS  
 Condition : FCC CLASS-B 3m CBL6112D SN23188 HORIZONTAL  
 Project : (FC)003022

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.94	21.39	-18.61	40.00	29.68	23.88	0.73	32.90	---	---	Peak
2	74.62	20.49	-19.51	40.00	39.43	12.76	1.20	32.90	---	---	Peak
3	119.24	30.12	-13.38	43.50	44.49	16.93	1.56	32.86	200	0	Peak
4	221.09	30.76	-15.24	46.00	44.88	16.77	2.21	33.10	---	---	Peak
5	259.89	29.37	-16.63	46.00	41.35	18.66	2.42	33.06	---	---	Peak
6	444.19	25.65	-20.35	46.00	32.45	22.70	3.21	32.71	---	---	Peak
7	734.22	32.49			35.39	25.65	4.18	32.73	---	---	Peak
8	2080.00	40.98	-33.02	74.00	61.88	31.58	7.05	59.53	---	---	Peak
9	3568.00	41.93	-32.07	74.00	59.61	32.97	9.27	59.92	---	---	Peak
10	8832.00	44.23	-29.77	74.00	54.39	36.23	14.80	61.19	---	---	Peak
11	9153.00	44.05	-29.95	74.00	53.57	36.42	15.28	61.22	---	---	Peak
12	12141.00	45.96	-28.04	74.00	49.53	38.98	17.53	60.08	---	---	Peak
13	17010.00	50.17	-23.83	74.00	44.78	42.57	21.00	58.18	---	---	Peak





Test Engineer :	wang	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH06-KS  
 Condition : FCC CLASS-B 3m CBL6112D SN23188 VERTICAL  
 Project : (FC) 003022

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	30.97	29.46	-10.54	40.00	36.57	24.98	0.71	32.80	---	---
2	54.25	33.90	-6.10	40.00	51.69	14.36	1.01	33.16	100	0
3	57.16	33.38	-6.62	40.00	51.63	13.88	1.03	33.16	---	---
4	112.45	24.95	-18.55	43.50	38.37	17.95	1.51	32.88	---	---
5	220.12	32.09	-13.91	46.00	45.44	17.55	2.20	33.10	---	---
6	257.95	30.44	-15.56	46.00	41.57	19.53	2.41	33.07	---	---
7	736.16	31.79			34.05	26.28	4.19	32.73	---	---
8	1776.00	39.58	-34.42	74.00	62.88	30.14	6.53	59.97	---	---
9	3096.00	42.05	-31.95	74.00	60.30	32.90	8.62	59.77	---	---
10	8384.00	44.36	-29.64	74.00	54.79	36.05	14.42	60.90	---	---
11	12141.00	45.96	-28.04	74.00	49.53	38.98	17.53	60.08	---	---
12	13824.00	46.91	-27.09	74.00	49.27	38.84	18.87	60.07	---	---
13	17010.00	50.17	-23.83	74.00	44.78	42.57	21.00	58.18	---	---

Note:

- Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)



### 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESC17	100768	9kHz~7GHz;	Apr. 14, 2020	Nov. 24, 2020	Apr. 13, 2021	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 17, 2020	Nov. 24, 2020	Oct. 16, 2021	Conduction (CO01-KS)
AC LISN	R&S	ENV216	100334	9kHz~30MHz	Oct. 17, 2020	Nov. 24, 2020	Oct. 16, 2021	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 17, 2020	Nov. 24, 2020	Oct. 16, 2021	Conduction (CO01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;M ax 30dBm	Oct. 17, 2020	Jan. 12, 2021	Oct. 16, 2021	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44GHz	Apr. 14, 2020	Jan. 12, 2021	Apr.13, 2021	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	May. 29, 2020	Jan. 12, 2021	May. 28, 2021	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 27, 2020	Jan. 12, 2021	Apr. 26, 2021	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Jun. 05, 2020	Jan. 12, 2021	Jun. 04, 2021	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 06, 2021	Jan. 12, 2021	Jan. 05, 2022	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Apr. 14, 2020	Jan. 12, 2021	Apr. 13, 2021	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5G Hz	Apr. 15, 2020	Jan. 12, 2021	Apr.14, 2021	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jan. 12, 2021	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jan. 12, 2021	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jan. 12, 2021	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required



## 5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.94dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.0dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.0dB
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.0dB
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