



FCC Test Report

APPLICANT : Positioning Universal Inc
EQUIPMENT : GPS TRACK
BRAND NAME : Positioning Universal
MODEL NAME : FT5000MW
FCC ID : 2AHRH-FT5000MW
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification
TEST DATE(S) : Jul. 16, 2021 ~ Jul. 22, 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.

Jason Jia

Reviewed by: Jason Jia / Supervisor

Alex Wang

Approved by: Alex Wang / Manager



Sporton International (Kunshan) Inc.

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



TABLE OF CONTENTS

REVISION HISTORY..... 3

SUMMARY OF TEST RESULT 4

1. GENERAL DESCRIPTION 5

 1.1. Applicant..... 5

 1.2. Manufacturer 5

 1.3. Product Feature of Equipment Under Test 5

 1.4. Product Specification of Equipment Under Test 5

 1.5. Modification of EUT 6

 1.6. Test Location 6

 1.7. Test Software 6

 1.8. Applicable Standards 7

2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST 8

 2.1. Test Mode 8

 2.2. Connection Diagram of Test System 9

 2.3. Support Unit used in test configuration and system 9

 2.4. EUT Operation Test Setup 10

3. TEST RESULT 11

 3.1. Test of AC Conducted Emission Measurement 11

 3.2. Test of Radiated Emission Measurement 15

4. LIST OF MEASURING EQUIPMENT 19

5. UNCERTAINTY OF EVALUATION 20

APPENDIX A. SETUP PHOTOGRAPHS



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 24.74 dB at 0.516 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 15.47 dB at 75.59 MHz for peak

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
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

Positioning Universal Inc
4660 La Jolla Village Drive, Suite 1100, SanDiego , CA92122

1.2. Manufacturer

Positioning Universal Inc
4660 La Jolla Village Drive, Suite 1100, SanDiego , CA92122

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	GPS TRACK
Brand Name	Positioning Universal
Model Name	FT5000MW
FCC ID	2AHRH-FT5000MW
EUT supports Radios application	GSM/LTE Cat M1/Bluetooth LE/GPS
IMEI Code	Conduction: 866833040135870 Radiation: N/A
HW Version	P2.1
SW Version	A0.15.5
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.

1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850MHz ~ 1910MHz LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 25 : 1850 MHz ~ 1915 MHz LTE Band 26 : 814 MHz ~ 849 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz LTE Band 85 : 698 MHz ~ 716 MHz Bluetooth LE : 2402 MHz ~ 2480 MHz
Rx Frequency	GSM850: 869 MHz ~ 894 MHz GSM1900: 1930 MHz ~ 1990 MHz LTE Band 2 : 1930 MHz ~ 1990 MHz



	LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 25 : 1930 MHz ~ 1995 MHz LTE Band 26 : 859 MHz ~ 894 MHz LTE Band 66 : 2110 MHz~ 2180 MHz LTE Band 85 : 728 MHz – 746 MHz Bluetooth LE : 2402 MHz ~ 2480 MHz GPS : 1559 MHz ~ 1610 MHz
Antenna Type	WWAN : PIFA Antenna GPS: PCB Antenna
Type of Modulation	GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK LTE: QPSK / 16QAM Bluetooth LE : GFSK GPS : 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.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	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		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH02-KS	CN1257	314309

1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-KS	AUDIX	E3	6.2009-8-24a
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

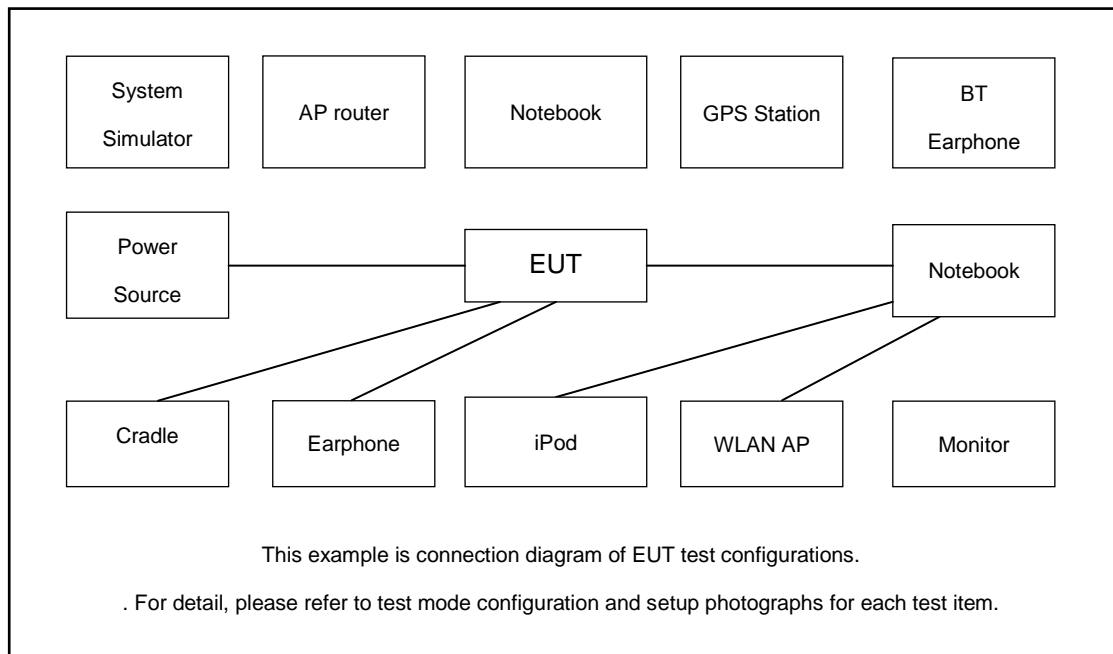
2.1. Test Mode

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: GSM 850 Rx(Middle) + Bluetooth Idle + GPS On + Power From AC Adaptor
	Mode 2: LTE Band 5 Rx(High) + Bluetooth Idle + GPS On + Power From AC Adaptor
	Mode 3: LTE Band 12 Rx(Low) + Bluetooth Idle + GPS On + Power From AC Adaptor
	Mode 4: LTE Band 13 Rx(Middle) + Bluetooth Idle + GPS On + Power From AC Adaptor
	Mode 5: LTE Band 26 Rx(Middle) + Bluetooth Idle + GPS On + Power From AC Adaptor
	Mode 6: LTE Band 85 Rx(Middle) + Bluetooth Idle + GPS On + Power From AC Adaptor
Radiated Emissions	Mode 1: GSM 850 Rx(Middle) + Bluetooth Idle + GPS On + Power From AC Adaptor
	Mode 2: LTE Band 5 Rx(High) + Bluetooth Idle + GPS On + Power From AC Adaptor
	Mode 3: LTE Band 12 Rx(Low) + Bluetooth Idle + GPS On + Power From AC Adaptor
	Mode 4: LTE Band 13 Rx(Middle) + Bluetooth Idle + GPS On + Power From AC Adaptor
	Mode 5: LTE Band 26 Rx(Middle) + Bluetooth Idle + GPS On + Power From AC Adaptor
	Mode 6: LTE Band 85 Rx(Middle) + Bluetooth Idle + GPS On + Power From AC Adaptor
Remark: <ol style="list-style-type: none"> 1. The worst case of AC is mode 1; only the test data of this mode is reported. 2. The worst case of RE is mode 5; only the test data of this mode is reported. 3. Pre-scanned Low/Middle/High channel for GSM 850/LTE Band 5/12/13 /26/85, the worst channel was recorded in this report. 	

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	Anritsu	MT8821C	N/A	N/A	Unshielded,1.8m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
3.	WLAN AP	TP-Link	TL-WDR5600	N/A	N/A	Unshielded,1.8m
4.	Bluetooth Earphone	Xiaomi	LYEJ02LM	N/A	N/A	N/A
5.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
6.	Notebook	Lenovo	S730-13IWL	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
7.	Vector Generator	Signal R&S	SMBV100A	258305	N/A	N/A
8.	SD Card	SanDisk	Uitra	N/A	N/A	N/A
9.	Hard disk	KINGSHARE	KSP6120G	Fcc DoC	Shielded, 1.2m	N/A



2.4. EUT Operation Test Setup

The EUT was in GSM 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. 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.

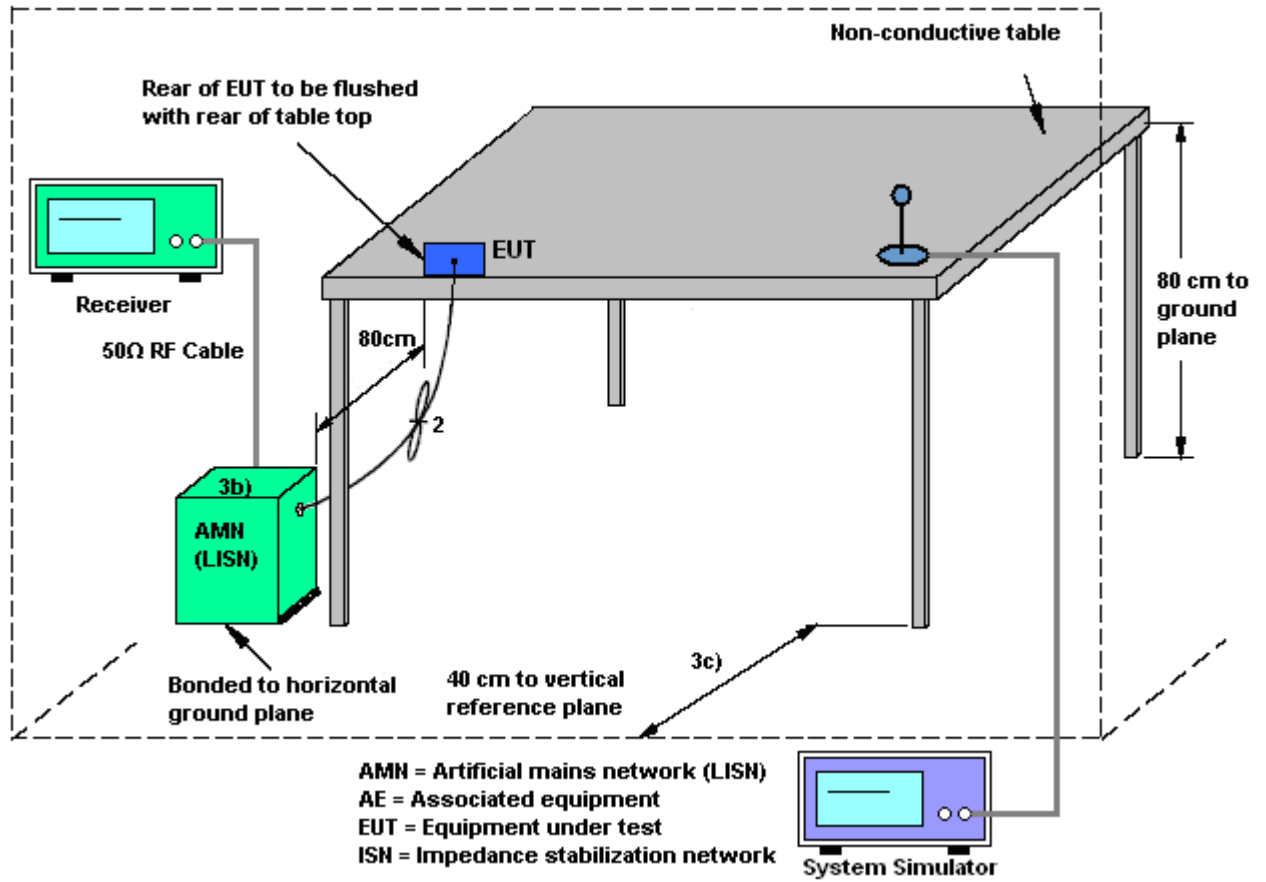
3.1.2 Measuring Instruments

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.

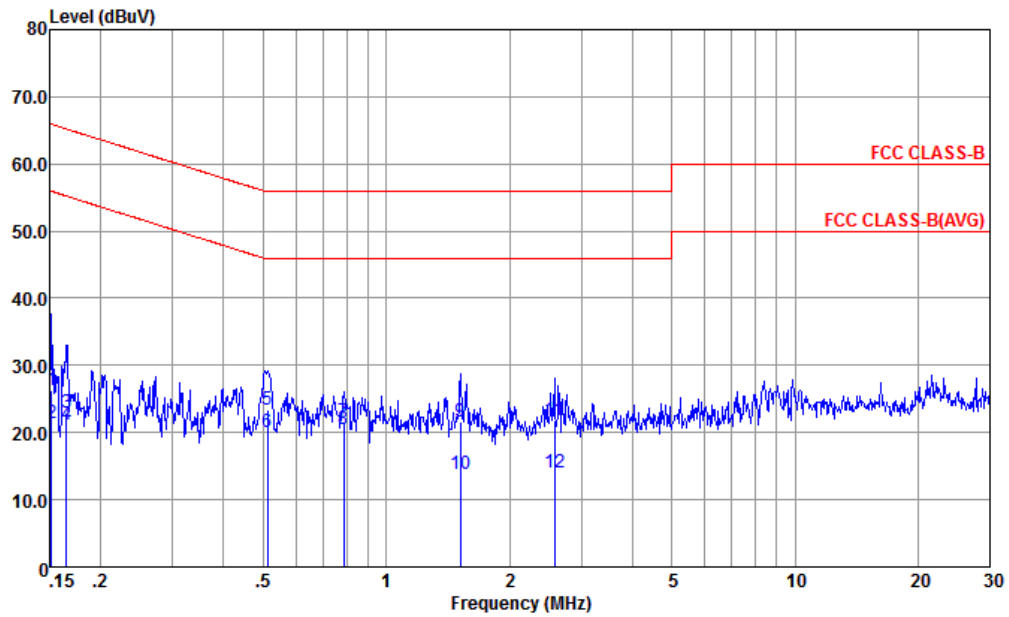
3.1.4 Test Setup





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.		

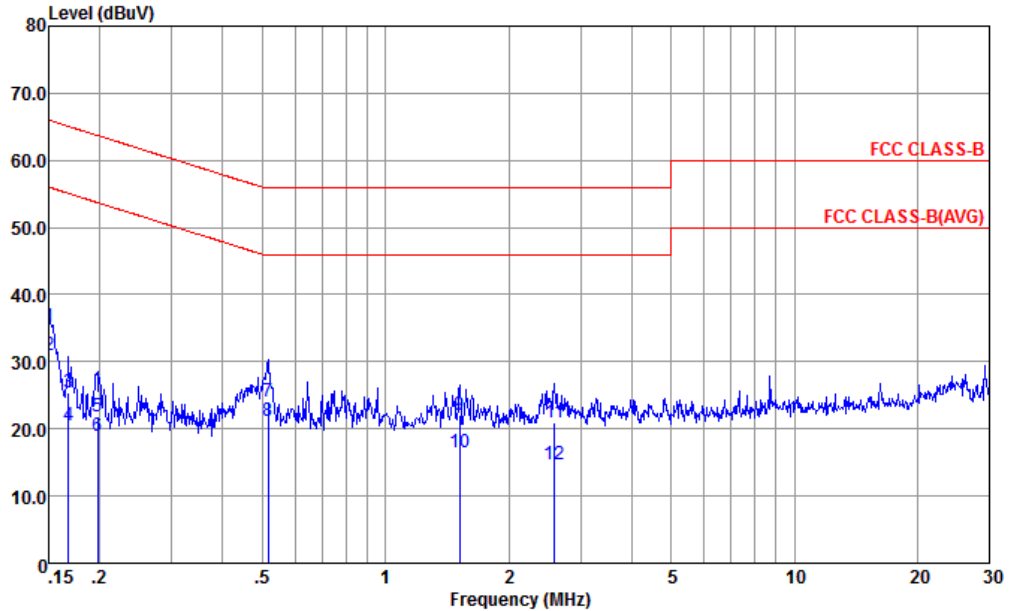


Site : CO01-KS
 Condition : FCC CLASS-B TWO-LISN-CN02-L LINE
 Project : (FC) 162602
 mode : Mode 1
 : 866833040135870 #10

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	26.31	-39.60	65.91	6.19	9.64	10.48	QP
2	0.152	21.31	-34.60	55.91	1.19	9.64	10.48	Average
3	0.165	22.98	-42.23	65.21	2.90	9.64	10.44	QP
4	0.165	21.28	-33.93	55.21	1.20	9.64	10.44	Average
5	0.513	23.49	-32.51	56.00	3.60	9.65	10.24	QP
6	0.513	20.09	-25.91	46.00	0.20	9.65	10.24	Average
7	0.788	21.51	-34.49	56.00	1.59	9.68	10.24	QP
8 *	0.788	20.51	-25.49	46.00	0.59	9.68	10.24	Average
9	1.519	21.58	-34.42	56.00	1.50	9.85	10.23	QP
10	1.519	13.88	-32.12	46.00	-6.20	9.85	10.23	Average
11	2.581	21.85	-34.15	56.00	1.59	10.02	10.24	QP
12	2.581	14.05	-31.95	46.00	-6.21	10.02	10.24	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
 Project : (FC) 162602
 mode : Mode 1
 : 866833040135870 #10

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.150	35.18	-30.82	66.00	14.90	9.80	10.48	QP
2	0.150	30.88	-25.12	56.00	10.60	9.80	10.48	Average
3	0.168	25.37	-39.71	65.08	5.10	9.84	10.43	QP
4	0.168	20.57	-34.51	55.08	0.30	9.84	10.43	Average
5	0.198	21.86	-41.85	63.71	1.60	9.89	10.37	QP
6	0.198	18.96	-34.75	53.71	-1.30	9.89	10.37	Average
7	0.516	24.16	-31.84	56.00	4.19	9.73	10.24	QP
8 *	0.516	21.26	-24.74	46.00	1.29	9.73	10.24	Average
9	1.519	22.17	-33.83	56.00	2.10	9.84	10.23	QP
10	1.519	16.47	-29.53	46.00	-3.60	9.84	10.23	Average
11	2.594	20.86	-35.14	56.00	0.60	10.02	10.24	QP
12	2.594	14.76	-31.24	46.00	-5.50	10.02	10.24	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

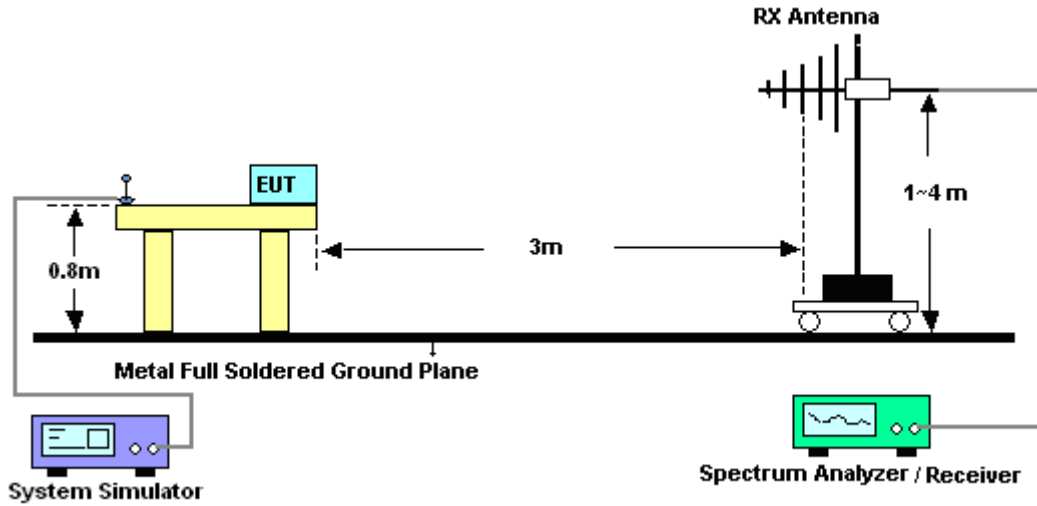
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

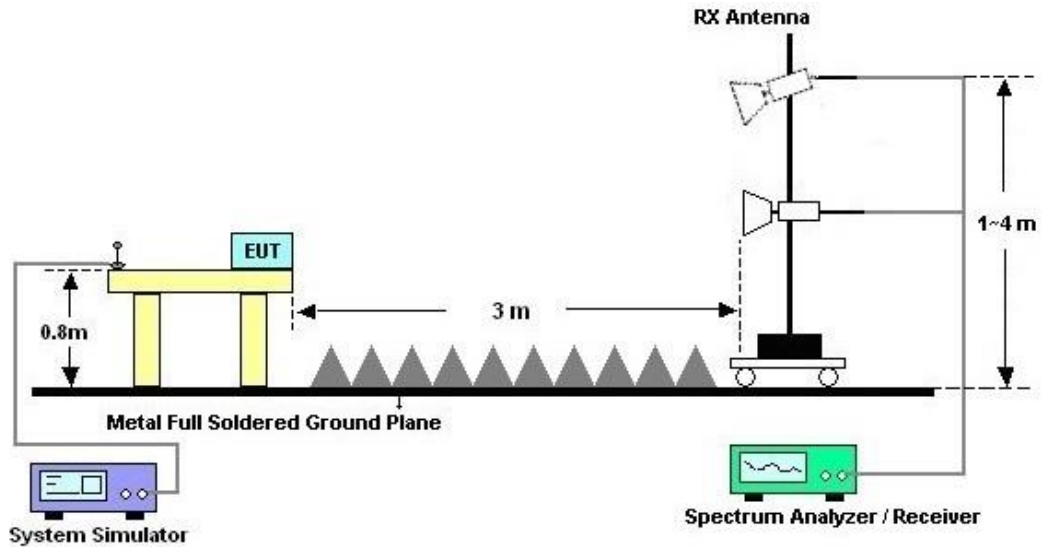
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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



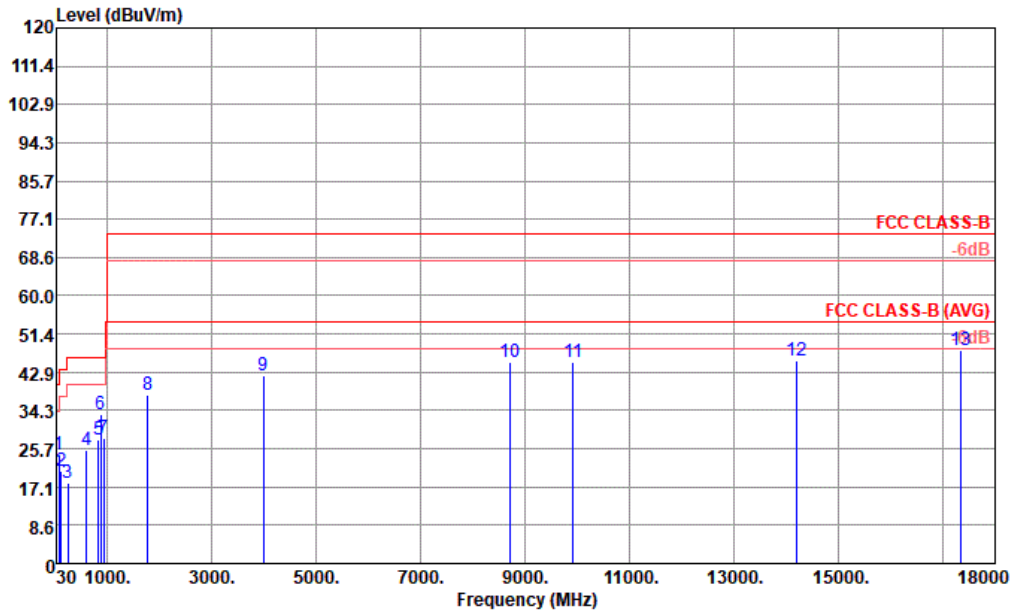
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Engineer :	Fang	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		

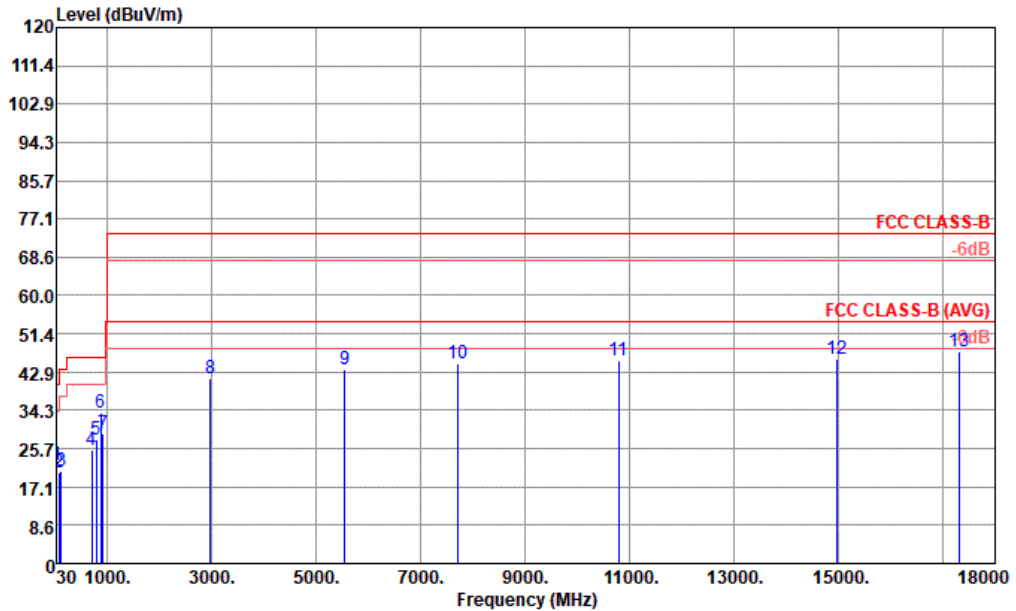


Site : 03CH02-KS
 Condition : FCC CLASS-B 3m LF 6111D SN44483 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	75.59	24.53	-15.47	40.00	42.14	13.10	1.49	32.20	200	192	Peak
2	122.15	20.59	-22.91	43.50	33.23	17.60	1.92	32.16	---	---	Peak
3	248.25	17.90	-28.10	46.00	28.61	18.74	2.75	32.20	---	---	Peak
4	607.15	25.24	-20.76	46.00	27.35	25.90	4.28	32.29	---	---	Peak
5	838.01	27.71	-18.29	46.00	26.02	29.04	5.03	32.38	---	---	Peak
6	880.81	33.51			31.46	29.19	5.15	32.29	---	---	Peak
7	939.86	28.20	-17.80	46.00	24.45	30.63	5.32	32.20	---	---	Peak
8	1784.00	37.72	-36.28	74.00	61.62	30.62	7.39	61.91	---	---	Peak
9	4000.00	41.97	-32.03	74.00	57.35	35.30	11.13	61.81	---	---	Peak
10	8712.00	45.25	-28.75	74.00	52.76	38.11	16.70	62.32	---	---	Peak
11	9918.00	44.98	-29.02	74.00	49.78	39.37	17.87	62.04	---	---	Peak
12	14193.00	45.51	-28.49	74.00	44.91	40.91	21.41	61.72	---	---	Peak
13	17343.00	47.63	-26.37	74.00	41.67	43.40	23.91	61.35	---	---	Peak



Test Engineer :	Fang	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH02-KS
 Condition : FCC CLASS-B 3m LF 6111D SN44483 VERTICAL

	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	30.00	21.93	-18.07	40.00	28.22	25.10	0.81	32.20	---	---	Peak
2	81.41	20.25	-19.75	40.00	37.15	13.72	1.56	32.18	---	---	Peak
3	118.27	20.80	-22.70	43.50	33.58	17.49	1.89	32.16	---	---	Peak
4	703.18	25.55	-20.45	46.00	26.36	26.79	4.61	32.21	---	---	Peak
5	787.57	27.90	-18.10	46.00	27.12	28.20	4.88	32.30	---	---	Peak
6	880.81	33.75	-		31.70	29.19	5.15	32.29	---	---	Peak
7	922.40	29.11	-16.89	46.00	26.07	29.96	5.28	32.20	100	174	Peak
8	2984.00	41.43	-32.57	74.00	60.00	33.40	9.60	61.57	---	---	Peak
9	5544.00	43.32	-30.68	74.00	56.29	35.56	13.10	61.63	---	---	Peak
10	7704.00	44.63	-29.37	74.00	53.08	37.84	15.53	61.82	---	---	Peak
11	10791.00	45.54	-28.46	74.00	49.46	39.42	18.58	61.92	---	---	Peak
12	14976.00	45.72	-28.28	74.00	44.65	41.16	22.11	62.20	---	---	Peak
13	17316.00	47.62	-26.38	74.00	41.70	43.39	23.89	61.36	---	---	Peak

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. 21, 2021	Jul. 22, 2021	Apr. 20, 2022	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 17, 2020	Jul. 22, 2021	Oct. 16, 2021	Conduction (CO01-KS)
AC LISN	R&S	ENV216	100334	9kHz~30MHz	Oct. 17, 2020	Jul. 22, 2021	Oct. 16, 2021	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 17, 2020	Jul. 22, 2021	Oct. 16, 2021	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Oct. 17, 2020	Jul. 16, 2021	Oct. 16, 2021	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 17, 2020	Jul. 16, 2021	Oct. 16, 2021	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Jan. 26, 2021	Jul. 16, 2021	Jan. 25, 2022	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 01, 2020	Jul. 16, 2021	Oct. 31, 2021	Radiation (03CH02-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 06, 2020	Jul. 16, 2021	Nov. 05, 2021	Radiation (03CH02-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 06, 2021	Jul. 16, 2021	Jan. 05, 2022	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Apr. 12, 2021	Jul. 16, 2021	Apr. 11, 2022	Radiation (03CH02-KS)
Amplifier	Keysight	83017A	MY53270316	500MHz~26.5G Hz	Oct. 17, 2020	Jul. 16, 2021	Oct. 16, 2021	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Jul. 16, 2021	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jul. 16, 2021	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jul. 16, 2021	NCR	Radiation (03CH02-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% ($U = 2Uc(y)$)	2.9dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9dB
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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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