



FCC EMI TEST REPORT

FCC ID : 2AD9M-003A
Equipment : SMARTPHONE
Brand Name : LEOMO
Model Name : LEM-TS1
Marketing Name : LEOMO TYPE-S
Applicant : LEOMO, INC.
7-22-17 Nishi Gotanda TOC Bldg. 7F
Shinagawa-ku, Tokyo, 1410031, Japan
Manufacturer : LEOMO, INC.
2000 Central Avenue, Suite 150, Boulder CO 80301, USA
Standard : FCC 47 CFR FCC Part 15 Subpart B

The product was received on Apr. 24, 2019 and testing was started from May 25, 2019 and completed on Jun. 04, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FC942441	01	Initial issue of report	Jul. 15, 2019



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.107	AC Conducted Emission	Pass	Under limit 7.61 dB at 0.778 MHz
3.2	15.109	Radiated Emission	Pass	Under limit 5.22 dB at 33.880 MHz

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.

Reviewed by: Louis Wu

Report Producer: Ann Lee

1. General Description

1.1. Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n, NFC, GNSS, and ANT+

Product Specification subjective to this standard	
Antenna Type	WWAN: PIFA Antenna WLAN: Loop Antenna Bluetooth (WCN3660B): Loop Antenna Bluetooth (CYW2070): PIFA Antenna GPS / Glonass / BDS / Galileo: Monopole Antenna NFC: Loop Antenna ANT+: Monopole Antenna

1.2. Modification of EUT

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

1.3. Test Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory.
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. CO05-HY

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH10-HY

FCC Designation No. TW1093 and TW1098

1.4. Applicable Standards

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

- ♦ FCC 47 CFR FCC 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

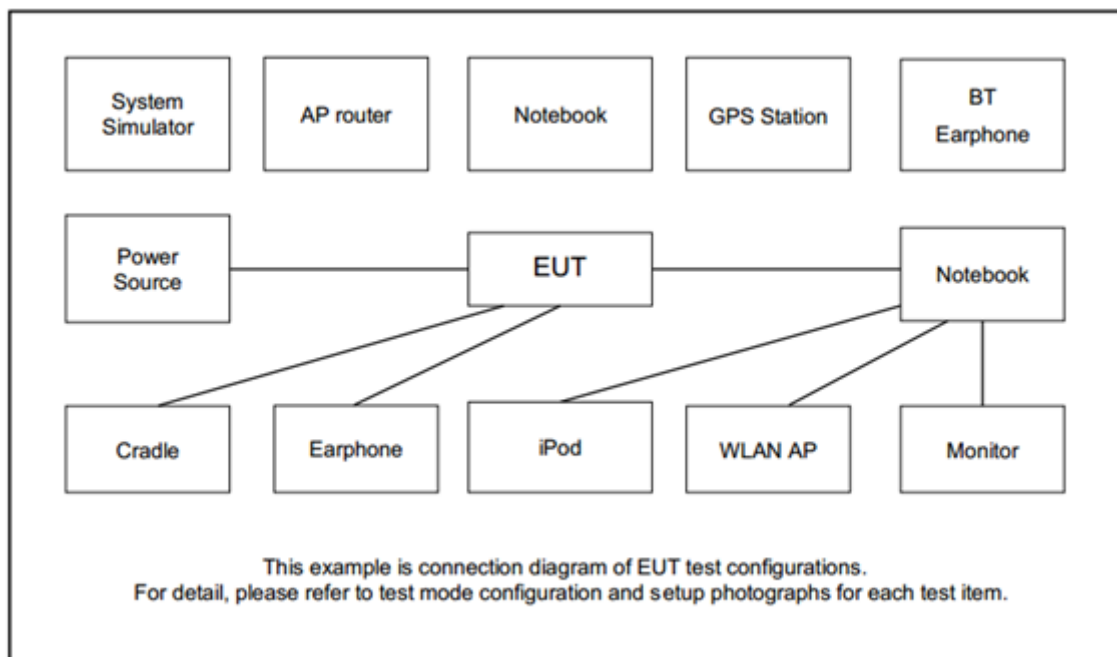
2.1. Test Mode

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 : GSM850 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + NFC On + ANT+ Idle + USB Cable (Charging from AC Adapter) + Multi-Sport Adapter
	Mode 2 : GSM1900 Idle + Bluetooth Idle + WLAN (5GHz) Idle + MPEG4 + ANT+ Idle + USB Cable (Charging from AC Adapter) + Multi-Sport Adapter
	Mode 3 : WCDMA Band V Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Camera (Front) + ANT+ Idle + USB Cable (Charging from AC Adapter) + Multi-Sport Adapter
	Mode 4 : LTE Band 12 Idle + Bluetooth Idle + WLAN (5GHz) Idle + Camera (Rear) + ANT+ Idle + USB Cable (Charging from AC Adapter) + Multi-Sport Adapter
	Mode 5 : LTE Band 17 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + GPS Rx + ANT+ Idle + USB Cable (Data Link with Notebook) Multi-Sport Adapter
	Mode 6 : LTE Band 17 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + GPS Rx + Power Bank + USB Cable (Charging from AC Adapter) + ANT+ Idle
Radiated Emissions	Mode 1 : GSM850 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + NFC On + ANT+ Idle + USB Cable (Charging from AC Adapter) + Multi-Sport Adapter
	Mode 2 : GSM1900 Idle + Bluetooth Idle + WLAN (5GHz) Idle + MPEG4 + ANT+ Idle + USB Cable (Charging from AC Adapter) + Multi-Sport Adapter
	Mode 3 : WCDMA Band V Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Camera (Front) + ANT+ Idle + USB Cable (Charging from AC Adapter) + Multi-Sport Adapter
	Mode 4 : LTE Band 12 Idle + Bluetooth Idle + WLAN (5GHz) Idle + Camera (Rear) + ANT+ Idle + USB Cable (Charging from AC Adapter) + Multi-Sport Adapter
	Mode 5 : LTE Band 17 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + GPS Rx + ANT+ Idle + USB Cable (Data Link with Notebook) Multi-Sport Adapter
	Mode 6 : GSM850 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + NFC On + Power Bank + USB Cable (Charging from AC Adapter) + ANT+ Idle
Remark: 1. The worst case of AC is mode 6; only the test data of this mode was reported. 2. The worst case of RE is mode 1; only the test data of this mode was reported. 3. For radiation emission after pre-scanned the cellular band between 30MHz ~ 960MHz (GSM850/WCDMA Band V/LTE Band 5/12/17); only the worst case for cellular band test data of this mode was reported.	

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.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
4.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
5.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
7.	iPod	Apple	A1199	FCC DoC	Shielded, 1.0 m	N/A
8.	Adapter	Nokia	AS-10WU	N/A	N/A	N/A
9.	Adapter	Sony	CAA-002016-TW	N/A	N/A	N/A
10.	USB Cable	Nokia	N/A	N/A	Shielded, 1 m	N/A
11.	Type C Cable	N/A	N/A	N/A	Shielded, 1.5 m	N/A
12.	ANT Plus	FIH	N/A	N/A	N/A	N/A
13.	Power Bank	LEOMO	LEM-PM1	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE idle mode during the testing. The EUT was synchronized with the BCCH, and had been continuous receiving mode by setting paging reorganization of the system simulator.

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. Execute "GPS Test" to make the EUT receive continuous signals from GPS station.
2. Execute "Video Player" to play MPEG4 files
3. Data application is transferred between Laptop and EUT via USB cable.
4. Turn on camera to capture images.
5. Turn on the NFC function
6. The EUT was attached to the ANT PLUS via Notebook.

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.

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.

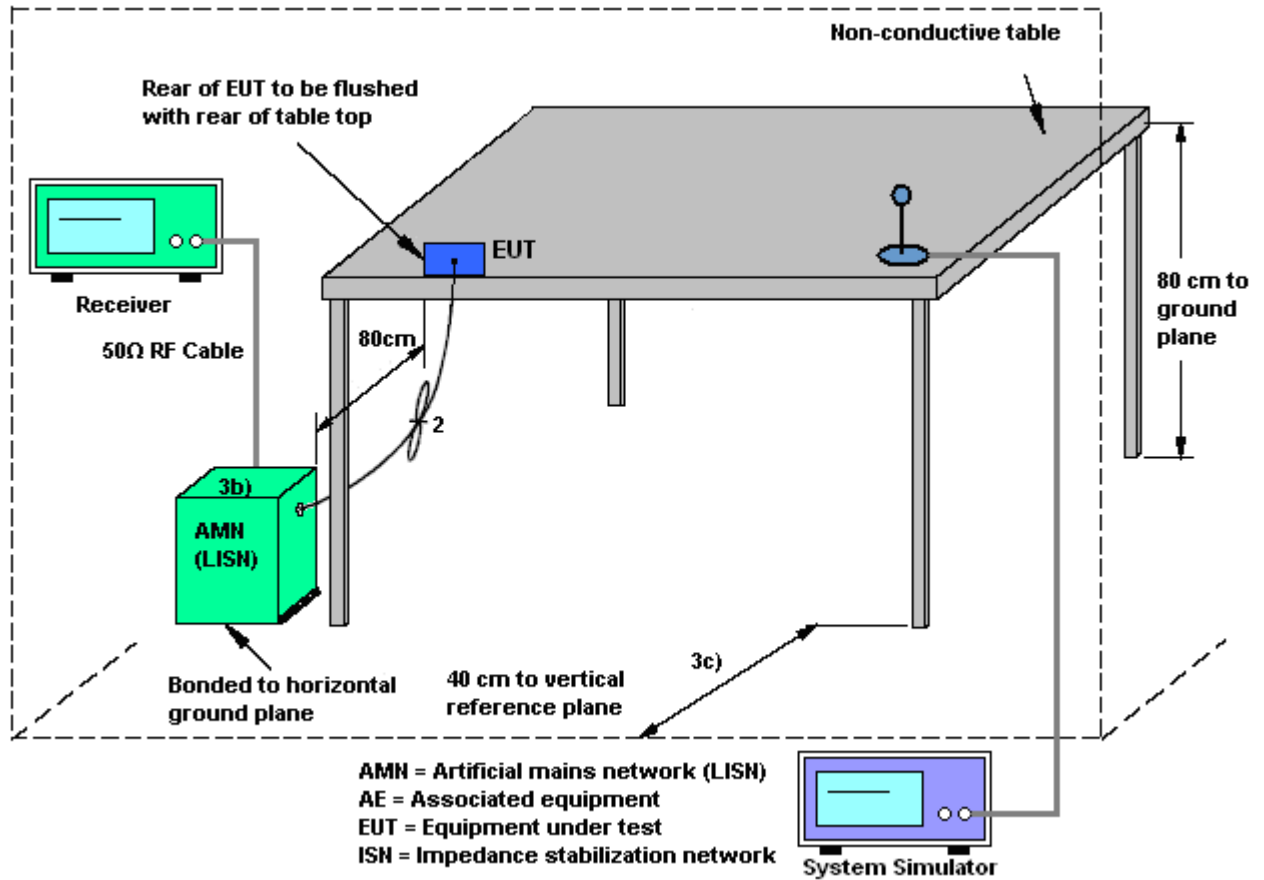
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in 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

Please refer to Appendix A.

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:

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

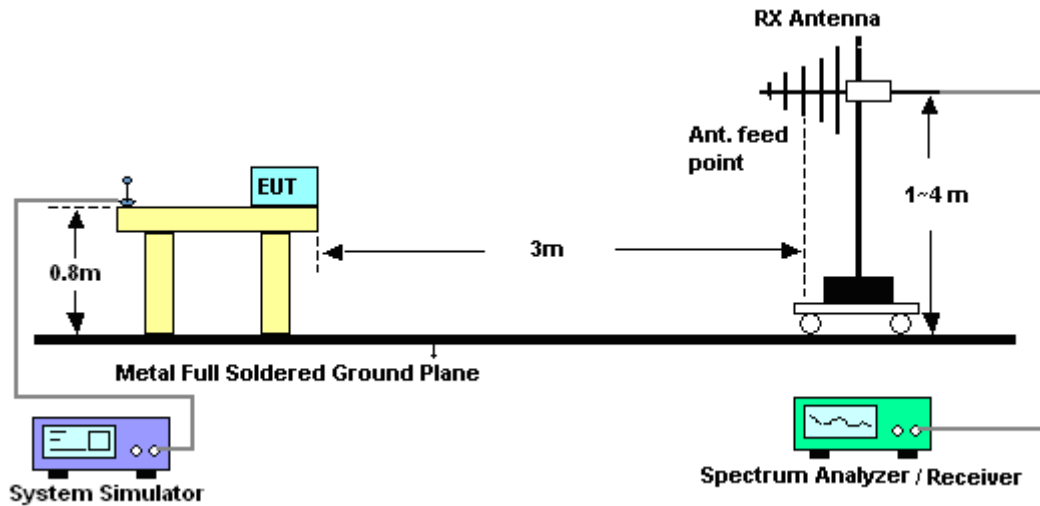
Refer a test equipment and calibration data table in this test report.

3.2.3. Test Procedures

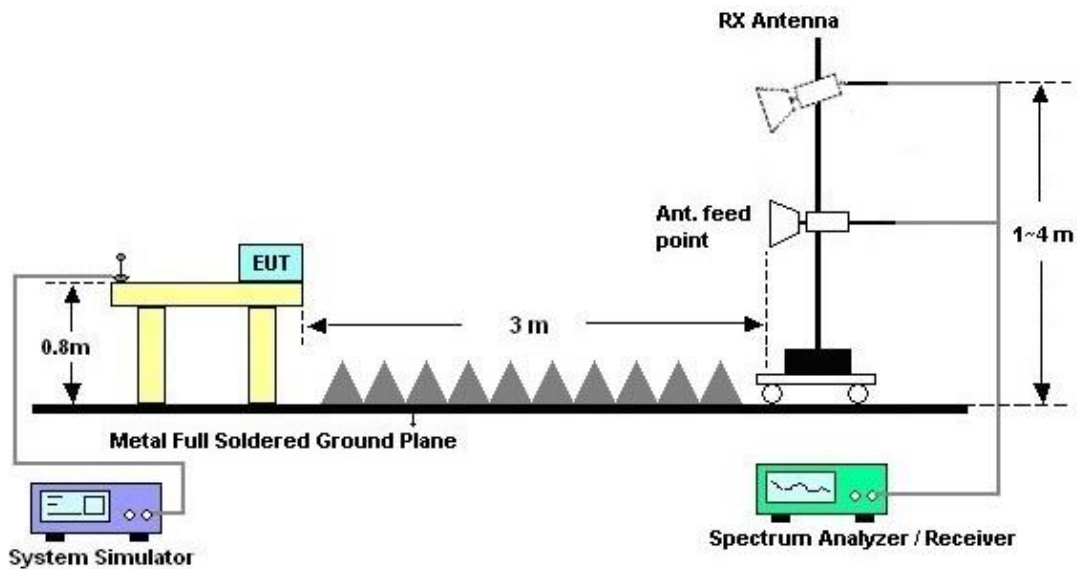
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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 μ V/m) = 20 log Emission level (μ V/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

Please refer to Appendix B.



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 23, 2018	Jun. 01, 2019~ Jun. 04, 2019	Oct. 22, 2019	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	35413&02	30MHz~1GHz	Feb. 12, 2019	Jun. 01, 2019~ Jun. 04, 2019	Feb. 11, 2020	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-132 5	1GHz ~ 18GHz	Oct. 02, 2018	Jun. 01, 2019~ Jun. 04, 2019	Oct. 01, 2019	Radiation (03CH10-HY)
Preamplifier	Jet-Power	JAP00101800 -30-10P	160118550 004	1GHz~18GHz	Apr. 16, 2019	Jun. 01, 2019~ Jun. 04, 2019	Apr. 15, 2020	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 85	10Hz ~ 44GHz	Nov. 02, 2018	Jun. 01, 2019~ Jun. 04, 2019	Nov. 01, 2019	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	Jun. 01, 2019~ Jun. 04, 2019	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Jun. 01, 2019~ Jun. 04, 2019	N/A	Radiation (03CH10-HY)
Software	Audix	E3 6.2009-8-24	RK-00104 2	N/A	N/A	Jun. 01, 2019~ Jun. 04, 2019	N/A	Radiation (03CH10-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY541300 85	20Hz ~ 8.4GHz	Jan. 19, 2019	Jun. 01, 2019~ Jun. 04, 2019	Jan. 20, 2020	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/ 4PE, MY11693/ 4PE, MY2855/2	30M-1G	Nov. 08, 2018	Jun. 01, 2019~ Jun. 04, 2019	Nov. 07, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/ 4PE, MY11693/ 4PE, MY2855/2	1G-18G	Nov. 08, 2018	Jun. 01, 2019~ Jun. 04, 2019	Nov. 07, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~18GHz	Oct. 16, 2018	Jun. 01, 2019~ Jun. 04, 2019	Oct. 15, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~18GHz	Oct. 16, 2018	Jun. 01, 2019~ Jun. 04, 2019	Oct. 15, 2019	Radiation (03CH10-HY)
Base Station	Anritsu	MT8820C	620143281 7	GSM / GPRS /WCDMA / LTE FDD/TDD with 44)	Dec. 12, 2018	Jun. 01, 2019~ Jun. 04, 2019	Dec. 11, 2020	Radiation (03CH10-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 25, 2019~ May 27, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	May 25, 2019~ May 27, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	May 25, 2019~ May 27, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	May 25, 2019~ May 27, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	May 25, 2019~ May 27, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	May 25, 2019~ May 27, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	May 25, 2019~ May 27, 2019	Dec. 30, 2019	Conduction (CO05-HY)

5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.2
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.6
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.9
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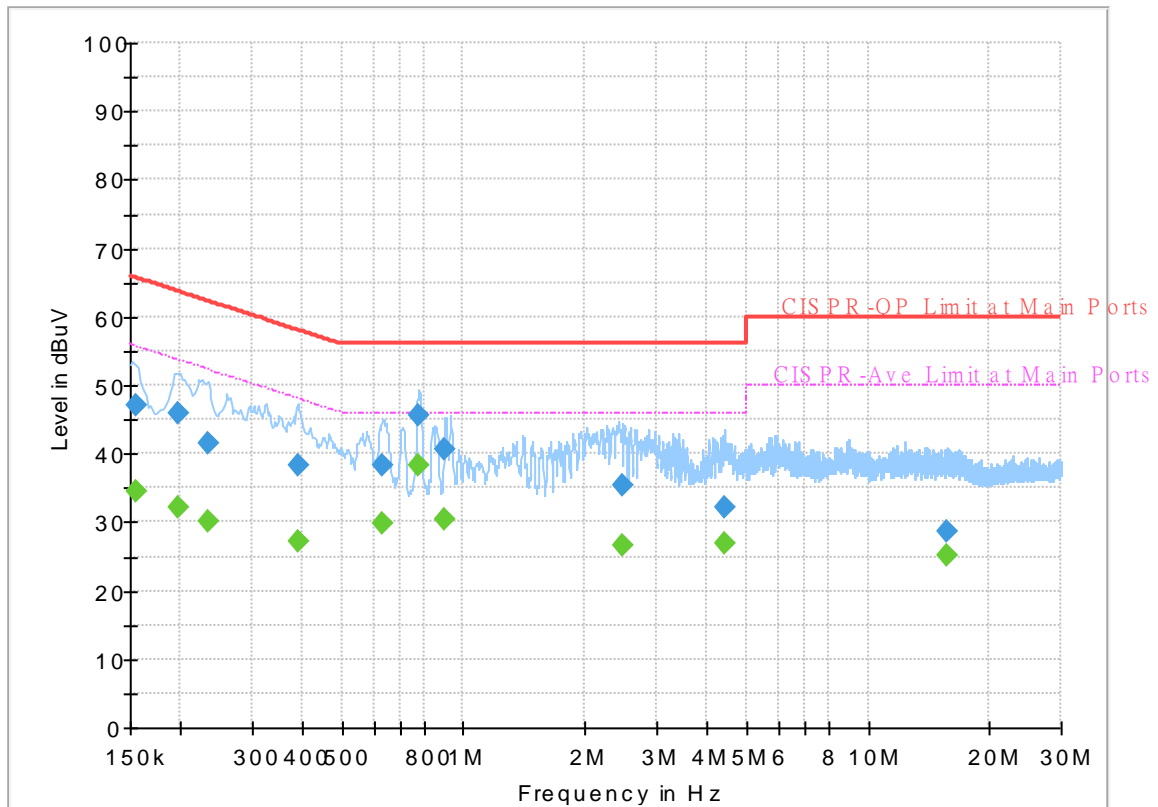
Appendix A. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	Temperature :	24~26°C
		Relative Humidity :	54~56%

EUT Information

Report NO : 942441
 Test Mode : Mode 6
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



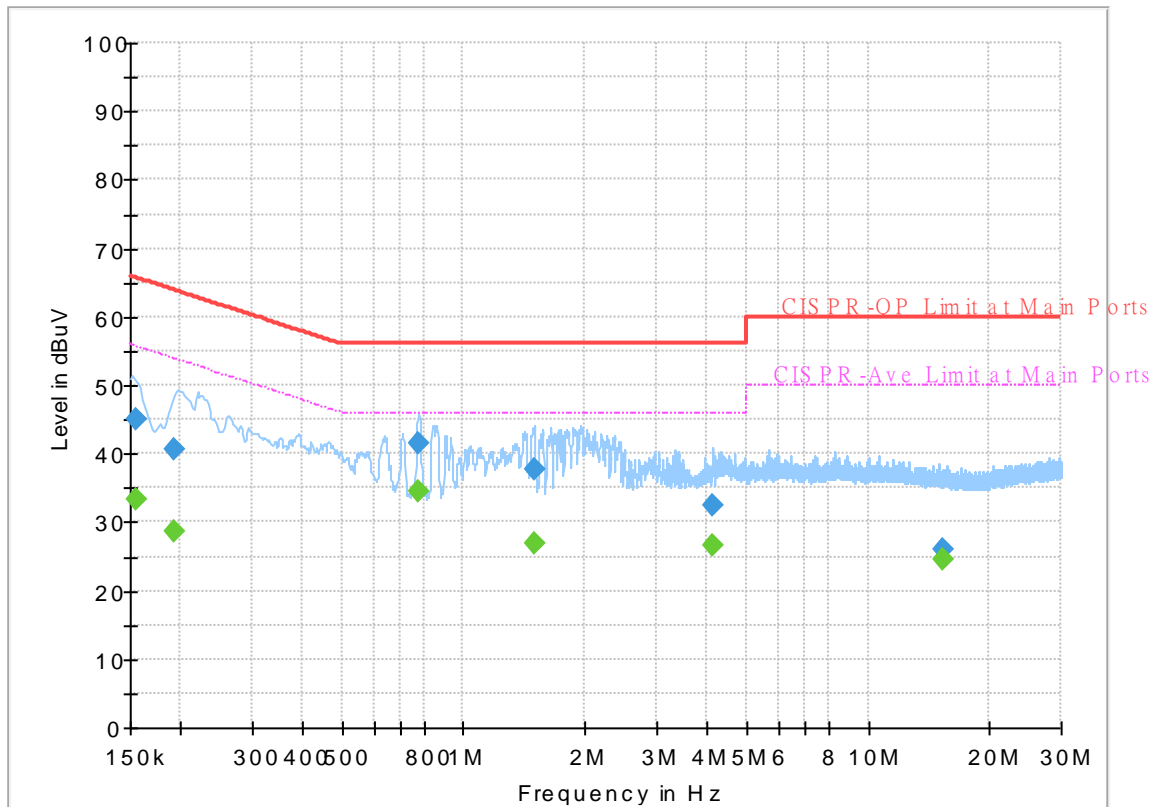
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	---	34.37	55.75	21.38	L1	OFF	19.5
0.154500	47.13	---	65.75	18.62	L1	OFF	19.5
0.197250	---	32.11	53.73	21.62	L1	OFF	19.5
0.197250	46.01	---	63.73	17.72	L1	OFF	19.5
0.233250	---	30.03	52.33	22.30	L1	OFF	19.5
0.233250	41.55	---	62.33	20.78	L1	OFF	19.5
0.388500	---	27.34	48.10	20.76	L1	OFF	19.5
0.388500	38.38	---	58.10	19.72	L1	OFF	19.5
0.629250	---	29.75	46.00	16.25	L1	OFF	19.6
0.629250	38.18	---	56.00	17.82	L1	OFF	19.6
0.777750	---	38.39	46.00	7.61	L1	OFF	19.6
0.777750	45.69	---	56.00	10.31	L1	OFF	19.6
0.901500	---	30.49	46.00	15.51	L1	OFF	19.6
0.901500	40.65	---	56.00	15.35	L1	OFF	19.6
2.467500	---	26.54	46.00	19.46	L1	OFF	19.6
2.467500	35.44	---	56.00	20.56	L1	OFF	19.6
4.436250	---	26.79	46.00	19.21	L1	OFF	19.7
4.436250	32.23	---	56.00	23.77	L1	OFF	19.7
15.582750	---	25.20	50.00	24.80	L1	OFF	20.1
15.582750	28.71	---	60.00	31.29	L1	OFF	20.1

EUT Information

Report NO : 942441
Test Mode : Mode 6
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



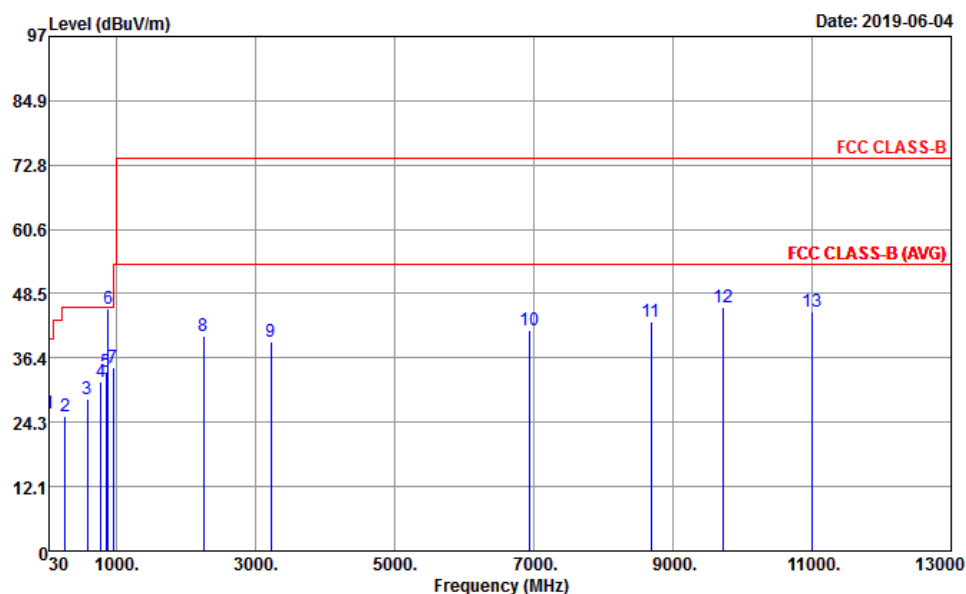
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	---	33.44	55.75	22.31	N	OFF	19.5
0.154500	44.90	---	65.75	20.85	N	OFF	19.5
0.192750	---	28.73	53.92	25.19	N	OFF	19.5
0.192750	40.53	---	63.92	23.39	N	OFF	19.5
0.777750	---	34.61	46.00	11.39	N	OFF	19.6
0.777750	41.57	---	56.00	14.43	N	OFF	19.6
1.495500	---	26.94	46.00	19.06	N	OFF	19.6
1.495500	37.59	---	56.00	18.41	N	OFF	19.6
4.116750	---	26.54	46.00	19.46	N	OFF	19.7
4.116750	32.33	---	56.00	23.67	N	OFF	19.7
15.328500	---	24.52	50.00	25.48	N	OFF	20.1
15.328500	26.07	---	60.00	33.93	N	OFF	20.1



Appendix B. Radiated Emission Test Result

Test Engineer :	Yu Wang	Temperature :	20~23°C
		Relative Humidity :	50~56%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		

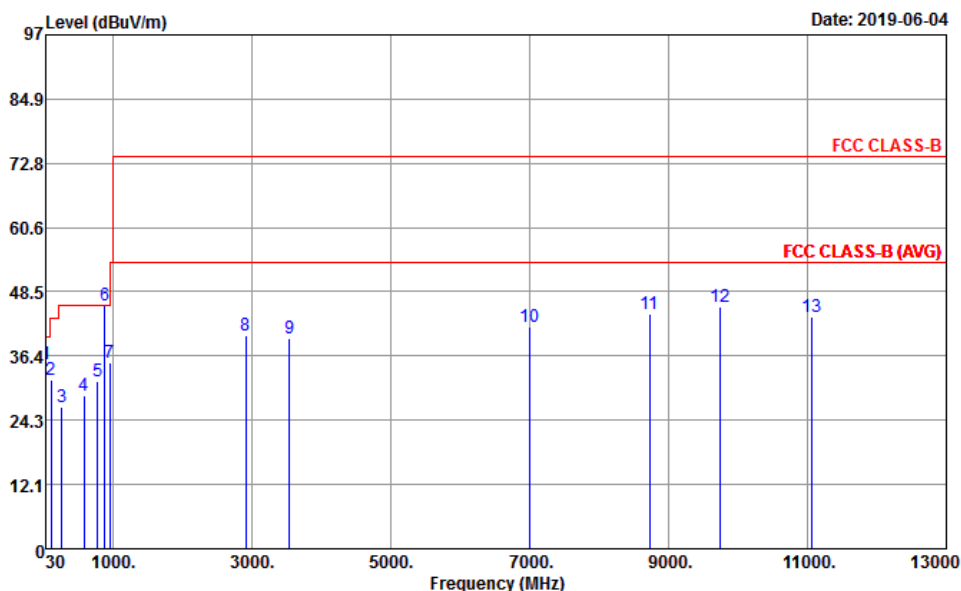


Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL
Project : 942441
Power : 120Vac/60Hz
Mode : 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.97	26.02	-13.98	40.00	33.54	24.81	0.45	32.78	---	---	Peak
2	261.83	25.51	-20.49	46.00	36.38	19.93	1.80	32.60	---	---	Peak
3	577.08	28.55	-17.45	46.00	32.58	25.96	2.71	32.70	---	---	Peak
4	780.78	31.94	-14.06	46.00	32.76	28.38	3.21	32.41	---	---	Peak
5	849.65	33.80	-12.20	46.00	33.24	29.29	3.37	32.10	---	---	Peak
6	881.66	45.78			45.22	29.07	3.41	31.92	---	---	Peak
7	952.47	34.46	-11.54	46.00	31.15	31.10	3.52	31.31	100	0	Peak
8	2254.00	40.51	-33.49	74.00	67.87	27.80	6.59	61.75	---	---	Peak
9	3216.00	39.51	-34.49	74.00	65.07	28.54	7.93	62.03	---	---	Peak
10	6934.00	41.52	-32.48	74.00	59.48	35.14	10.42	63.52	---	---	Peak
11	8688.00	43.36	-30.64	74.00	58.71	37.38	11.60	64.33	---	---	Peak
12	9726.00	45.82	-28.18	74.00	59.67	38.76	12.14	64.75	100	0	Peak
13	11006.00	45.14	-28.86	74.00	55.65	40.07	13.22	63.80	---	---	Peak



Test Engineer :	Yu Wang	Temperature :	20~23°C
		Relative Humidity :	50~56%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL
Project : 942441
Power : 120Vac/60Hz
Mode : 1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	33.88	34.78	-5.22	40.00	44.07	23.05	0.43	32.77	100	0 Peak
2	108.57	31.96	-11.54	43.50	46.72	16.76	1.14	32.66	---	---
3	258.92	26.65	-19.35	46.00	37.63	19.83	1.79	32.60	---	---
4	581.93	28.80	-17.20	46.00	32.89	25.90	2.72	32.71	---	---
5	779.81	31.51	-14.49	46.00	32.31	28.40	3.21	32.41	---	---
6	881.66	45.81			45.25	29.07	3.41	31.92	---	---
7	949.56	35.13	-10.87	46.00	31.99	30.96	3.51	31.33	---	---
8	2910.00	40.26	-33.74	74.00	66.35	28.22	7.57	61.88	---	---
9	3544.00	39.79	-34.21	74.00	65.13	28.76	8.11	62.21	---	---
10	6992.00	41.98	-32.02	74.00	59.82	35.37	10.38	63.59	---	---
11	8728.00	44.35	-29.65	74.00	59.54	37.51	11.67	64.37	---	---
12	9736.00	45.76	-28.24	74.00	59.54	38.82	12.15	64.75	100	0 Peak
13	11058.00	43.82	-30.18	74.00	54.56	39.81	13.26	63.81	---	---