



FCC Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2128-1
FCC ID : IHDT56ZQ2
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification

The product was completed on Feb. 01, 2021. 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.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager



Sporton International (ShenZhen) Inc.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC120201-01	Rev. 01	Initial issue of report	Mar. 10, 2021
FC120201-01	Rev. 02	Update accessory list	Mar. 12, 2021



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 10.71 dB at 0.660 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 3.84 dB at 146.400 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.



1. General Description

1.1. Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza,Chicago,IL60654 USA

1.2. Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza,Chicago,IL60654 USA

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2128-1
FCC ID	IHDT56ZQ2
EUT supports Radios application	GSM/WCDMA/LTE WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE FM Receiver and GNSS
IMEI Code	Conduction: 354352850450070/867400020316620 Radiation: 354352850450062/867400020316620
HW Version	DVT2
SW Version	RTA31.09
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 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 66 : 1710 MHz ~ 1780 MHz 802.11b/g/n: 2400 MHz ~ 2483.5 MHz 802.11a/n/ac: 5150 MHz ~ 5250 MHz; 5250 MHz ~ 5350 MHz; 5470 MHz ~ 5725 MHz 5725 MHz ~ 5850 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz
Rx Frequency	GSM850: 869 MHz ~ 894 MHz GSM1900: 1930 MHz ~ 1990 MHz 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 66 : 2110 MHz~ 2180 MHz 802.11b/g/n: 2400 MHz ~ 2483.5 MHz 802.11a/n/ac: 5150 MHz ~ 5250 MHz; 5250 MHz ~ 5350 MHz; 5470 MHz ~ 5725 MHz 5725 MHz ~ 5850 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz GNSS : 1559 MHz ~ 1610 MHz FM : 88 MHz ~ 108 MHz
Antenna Type	WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GNSS: PIFA Antenna FM : Earphone Antenna
Type of Modulation	GSM/GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK HSPA : QPSK HSPA+ : 16QAM(16QAM uplink is not supported) DC-HSDPA : 64QAM LTE: QPSK / 16QAM / 64QAM 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n/ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) Bluetooth LE : GFSK



	Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK FM
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1.5. Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola (Chenyang)	Model Name	MC-101
AC Adapter 1(EU)	Brand Name	Motorola (Chenyang)	Model Name	MC-102
AC Adapter 1(AR)	Brand Name	Motorola (Chenyang)	Model Name	MC-106
AC Adapter 1(BR)	Brand Name	Motorola (Chenyang)	Model Name	MC-107
AC Adapter 2(US)	Brand Name	Motorola (Salcomp)	Model Name	MC-101
AC Adapter 2(EU)	Brand Name	Motorola (Salcomp)	Model Name	MC-102
AC Adapter 2(AR)	Brand Name	Motorola (Salcomp)	Model Name	MC-106
AC Adapter 2(Chile)	Brand Name	Motorola (Salcomp)	Model Name	MC-109
AC Adapter 3(US)	Brand Name	Motorola (Aohai)	Model Name	MC-101
AC Adapter 3(EU)	Brand Name	Motorola (Aohai)	Model Name	MC-102
AC Adapter 3(AR)	Brand Name	Motorola (Aohai)	Model Name	MC-106
AC Adapter 4 (BR Local build)	Brand Name	Motorola (Flex)	Model Name	MC-107
AC Adapter 5 (BR Local build)	Brand Name	Motorola (Salcomp)	Model Name	MC-107
Battery 1	Brand Name	Motorola (Sunwoda)	Model Name	JK50
Earphone 1	Brand Name	Motorola (Juwei)	Model Name	JWEP1123-T03
Earphone 2	Brand Name	Motorola (Juwei)	Model Name	JWEP1182-T03H
Earphone 3	Brand Name	Motorola (New Leader)	Model Name	NLD-EM313A-11SF
Earphone 4	Brand Name	Motorola (LIANYUN)	Model Name	SH38C81577
Earphone 5	Brand Name	Motorola (Lianchuang)	Model Name	SH38C81576
USB Cable 1	Brand Name	Motorola (Chuangyitong)	Model Name	88806-025
USB Cable 2	Brand Name	Motorola (Yihuaxing)	Model Name	T365-011B
USB Cable 3	Brand Name	Motorola (I SHENG)	Model Name	SC18C28955

1.6. Modification of EUT

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

1.7. 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		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-SZ	CN1256	421272

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272

1.8. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a
2.	CO01-SZ	AUDIX	E3	6.120613b

1.9. 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.

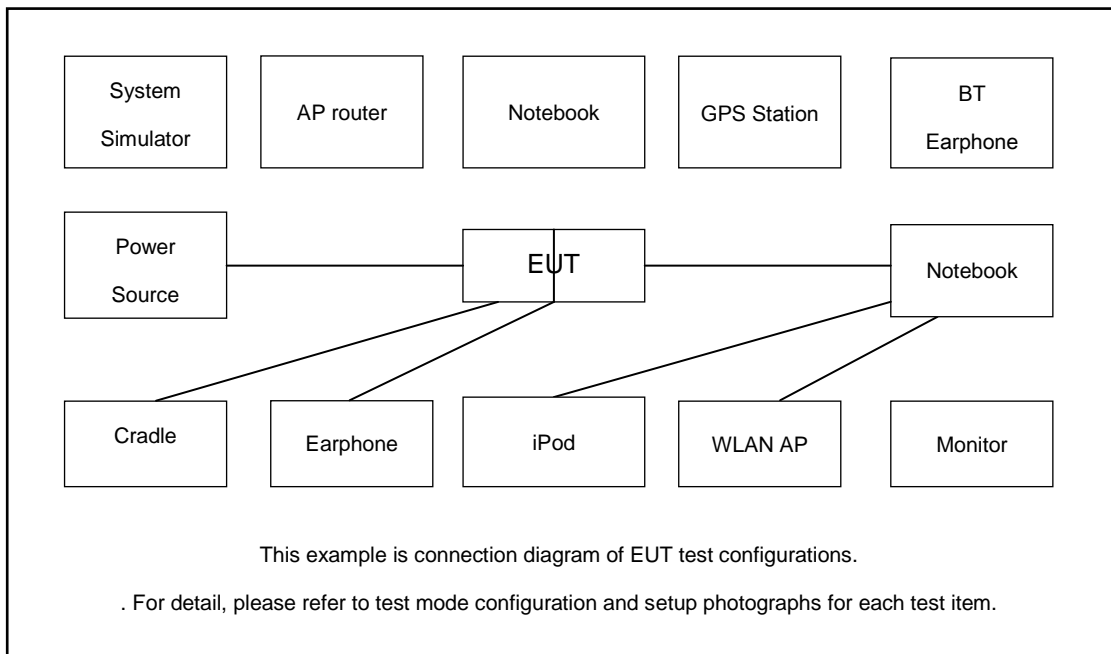
Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1: GSM 850 Idle(Middle CH) + Earphone 1 + Battery 1 + USB Cable 1(Charging from Adapter 1) + SIM 1 + Camera(Rear) + SD Card Load
	Mode 2: WCDMA Band V Idle(High CH) + Earphone 2 + Battery 1 + USB Cable 2(Charging from Adapter 2) + SIM 2 + Camera(Front) + SD Card Load
	Mode 3: LTE Band 2 Idle(Low CH) + Earphone 3 + Battery 1 + USB Cable 3(Charging from Adapter 3) + SIM 1 + MPEG4(Color bar) + SD Card Link
	Mode 4: LTE Band 5 Idle(Middle CH) + Earphone 4 + Battery 1 + USB Cable 1(Charging from Adapter 4) + SIM 2 + FM Rx(98Mhz) + SD Card Load
	Mode 5: LTE Band 7 Idle(High CH) + Earphone 5 + Battery 1 + USB Cable 1(Charging from Adapter 5) + SIM 1 + Camera(Rear) + SD Card Load
	Mode 6: GSM 850 Idle(Middle CH) + Earphone 1 + Battery 1 + USB Cable 1(Data Link with Notebook) + SIM 1 + H-Pattern + SD Card Link
	Mode 7: GSM 850 Idle(Middle CH) + Earphone 1 + Battery 1 + USB Cable 2(Data Link with Notebook) + SIM 1 + H-Pattern + SD Card Link
	Mode 8: GSM 850 Idle(Middle CH) + Earphone 1 + Battery 1 + USB Cable 3(Data Link with Notebook) + SIM 1 + H-Pattern + SD Card Link



Radiated Emissions	Mode 1: GSM 850 Idle(Middle CH) + Earphone 1 + Battery 1 + USB Cable 1(Charging from Adapter 1) + SIM 1 + Camera(Rear) + SD Card Load Mode 2: WCDMA Band V Idle(High CH) + Earphone 2 + Battery 1 + USB Cable 2(Charging from Adapter 2) + SIM 2 + Camera(Front) + SD Card Load Mode 3: LTE Band 2 Idle(Low CH) + Earphone 3 + Battery 1 + USB Cable 3(Charging from Adapter 3) + SIM 1 + MPEG4(Color bar) + SD Card Link Mode 4: LTE Band 5 Idle(Middle CH) + Earphone 4 + Battery 1 + USB Cable 1(Charging from Adapter 4) + SIM 2 + FM Rx(98Mhz) + SD Card Load Mode 5: LTE Band 7 Idle(High CH) + Earphone 5 + Battery 1 + USB Cable 1(Charging from Adapter 5) + SIM 1 + Camera(Rear) + SD Card Load Mode 6: GSM 850 Idle(Middle CH) + Earphone 1 + Battery 1 + USB Cable 1(Data Link with Notebook) + SIM 1 + H-Pattern + SD Card Link Mode 7: GSM 850 Idle(Middle CH) + Earphone 1 + Battery 1 + USB Cable 2(Data Link with Notebook) + SIM 1 + H-Pattern + SD Card Link Mode 8: GSM 850 Idle(Middle CH) + Earphone 1 + Battery 1 + USB Cable 3(Data Link with Notebook) + SIM 1 + H-Pattern + SD Card Link
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 1; only the test data of this mode is reported.3. Data Link with Notebook means data application transferred mode between EUT and Notebook.4. Pre-scanned Low/Middle/High channel, 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.	Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8m
2.	FM Station	R&S	SMB100A	N/A	N/A	Unshielded, 1.8m
3.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7m with Core
4.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded, 1.8m
5.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	IPod	SONY	SBH20	PY7-RD0010	Shielded, 1.0m	N/A
7.	IPod	apple	MC69029/A	Fcc DoC	Shielded, 1.0m	N/A
8.	SD Card	Kingston	3300-10000-078	Fcc DoC	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 to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, 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 camera to capture images.
3. Turn on MPEG4 function.
4. Turn on FM function to make the EUT receive continuous signals from FM 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

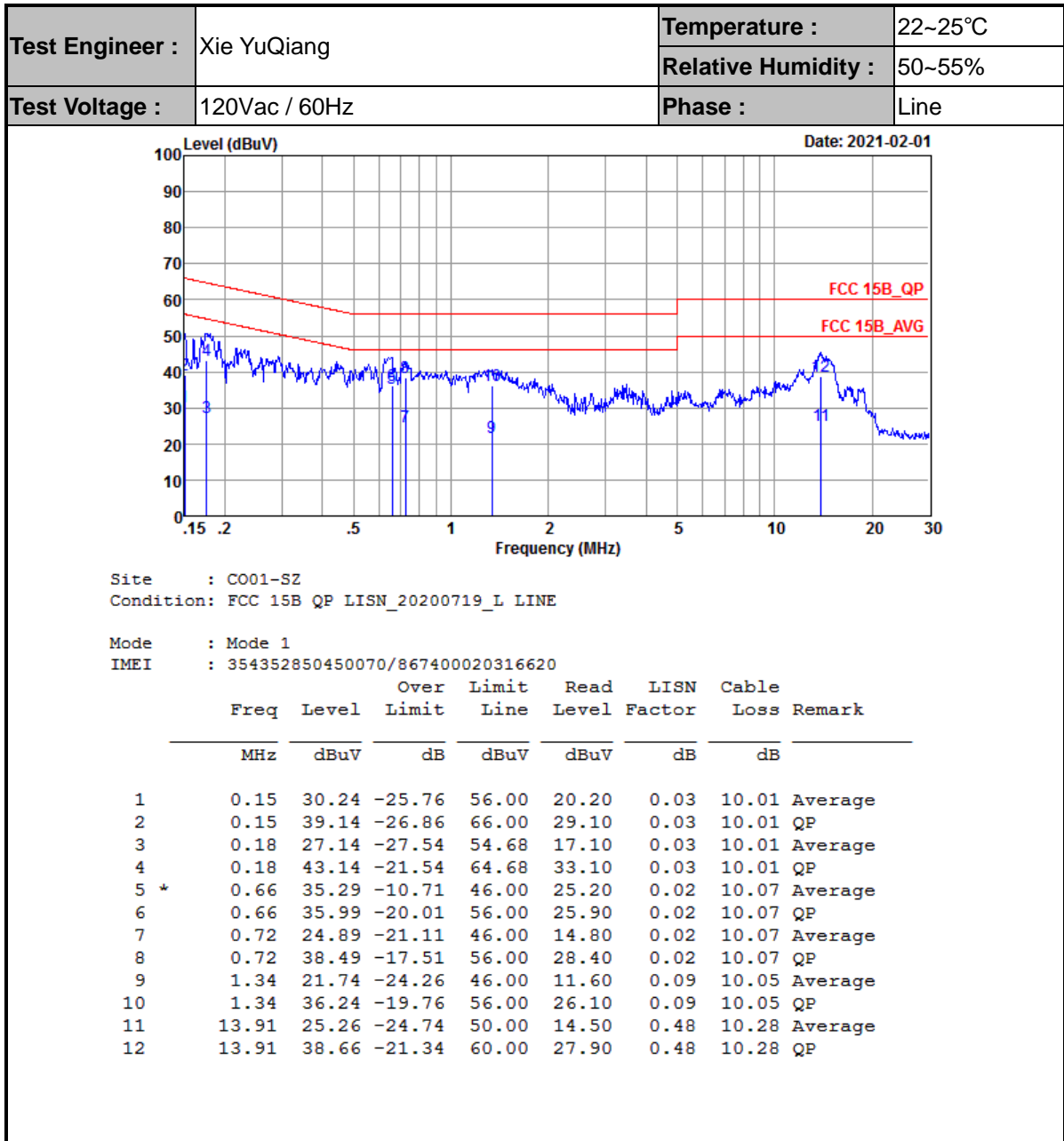
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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



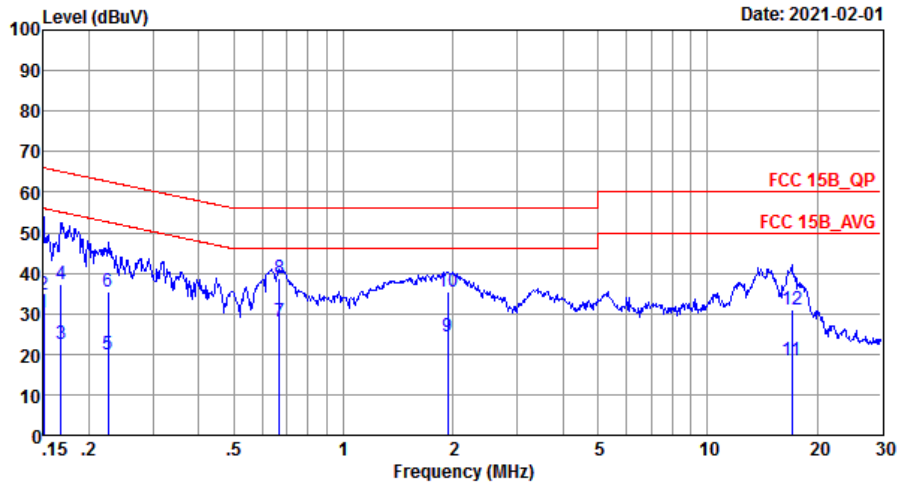


3.1.5 Test Result of AC Conducted Emission





Test Engineer :	Xie YuQiang	Temperature :	22~25°C
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Site : CO01-SZ
 Condition: FCC 15B QP LISN_20200719_N NEUTRAL

Mode : Mode 1
 IMEI : 354352850450070/867400020316620

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	30.24	-25.76	56.00	20.20	0.03	10.01	Average
2	0.15	34.64	-31.36	66.00	24.60	0.03	10.01	QP
3	0.17	22.44	-32.64	55.08	12.40	0.03	10.01	Average
4	0.17	37.24	-27.84	65.08	27.20	0.03	10.01	QP
5	0.23	20.04	-32.57	52.61	10.00	0.03	10.01	Average
6	0.23	35.44	-27.17	62.61	25.40	0.03	10.01	QP
7	0.67	27.89	-18.11	46.00	17.80	0.02	10.07	Average
8 *	0.67	38.89	-17.11	56.00	28.80	0.02	10.07	QP
9	1.94	24.20	-21.80	46.00	14.10	0.05	10.05	Average
10	1.94	35.50	-20.50	56.00	25.40	0.05	10.05	QP
11	17.02	18.63	-31.37	50.00	7.90	0.44	10.29	Average
12	17.02	31.03	-28.97	60.00	20.30	0.44	10.29	QP

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

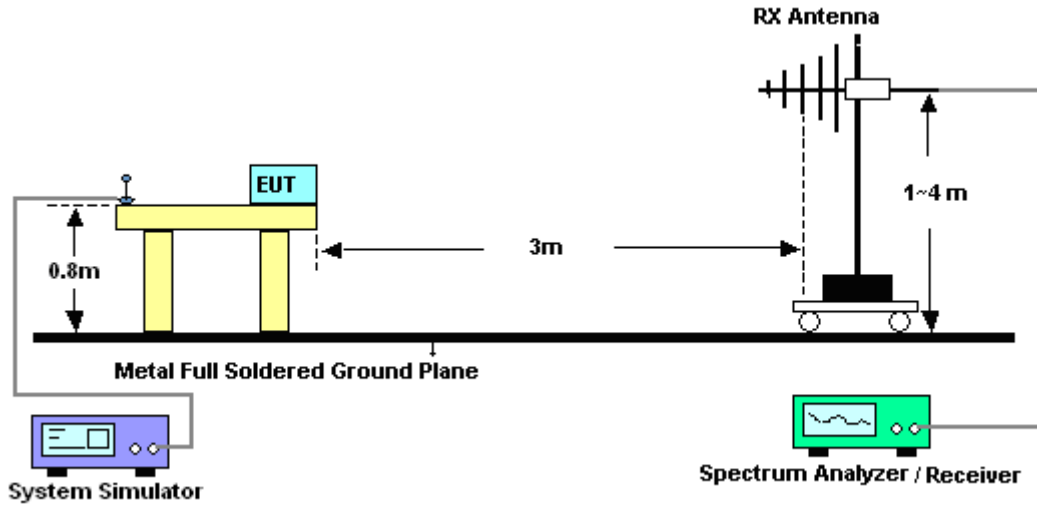
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

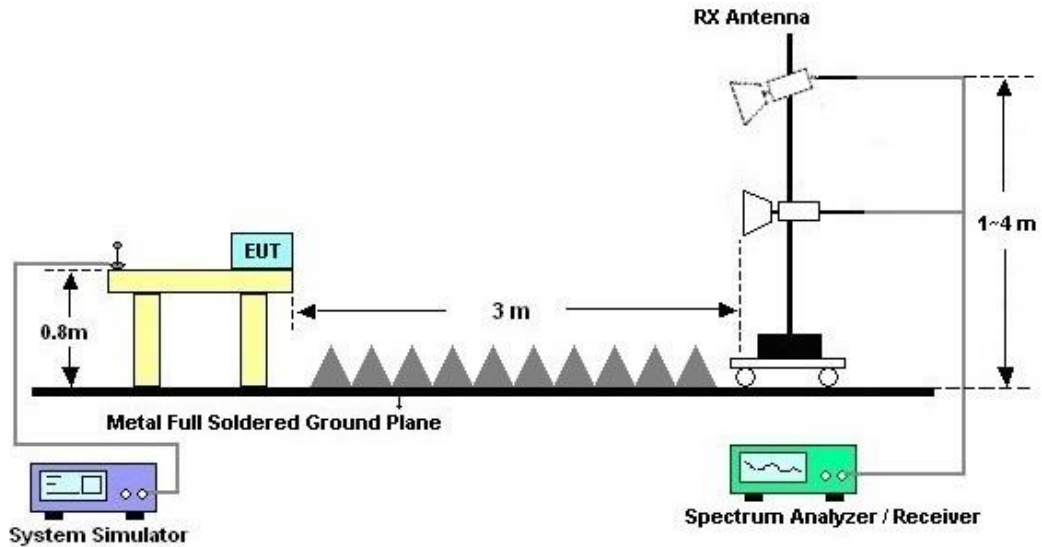
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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



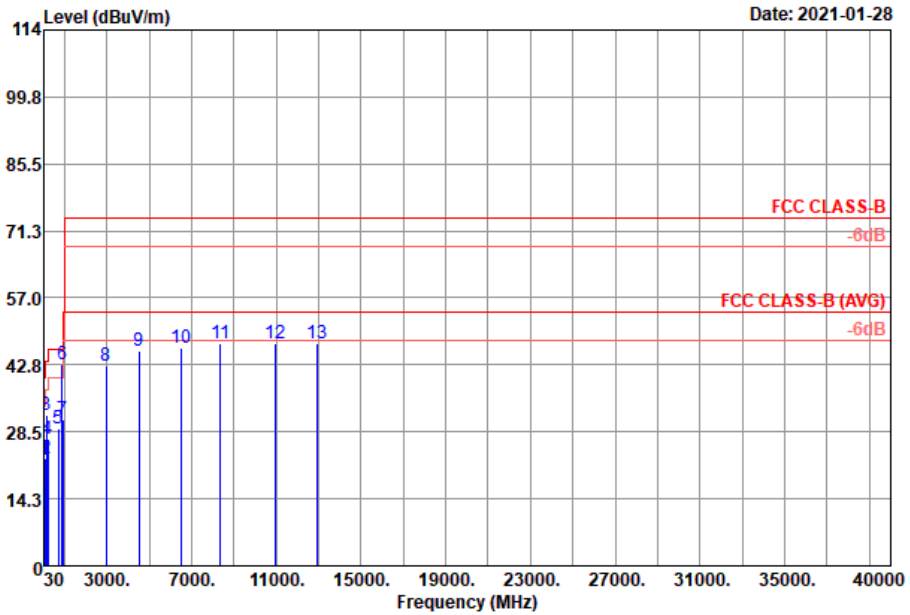
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Engineer :	Zhongmin Zhang	Temperature :	24~25°C
		Relative Humidity :	48~49%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		



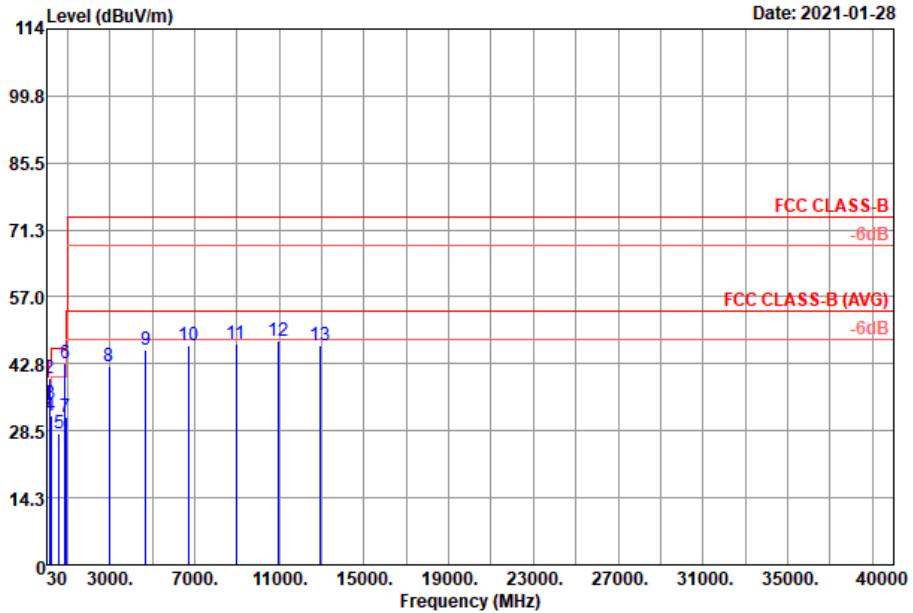
Site : 03CH02-SZ
 Condition : FCC CLASS-B 3m VULB9168-01001 HORIZONTAL

Mode : Mode 1
 IMEI : 354352850450062/867400020316620
 Plane : Y

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm deg
1	50.37	22.68	-17.32	40.00	35.26	20.29	2.23	35.10	--- --- Peak
2	106.63	23.02	-20.48	43.50	39.87	15.87	2.47	35.19	--- --- Peak
3	156.10	32.22	-11.28	43.50	45.45	19.30	2.57	35.10	100 262 Peak
4	237.58	26.84	-19.16	46.00	41.12	17.91	2.83	35.02	--- --- Peak
5	725.49	29.09	-16.91	46.00	32.35	27.24	3.95	34.45	--- --- Peak
6 *	881.40	42.87			44.10	28.88	4.19	34.30	--- --- Peak
7	929.19	31.08	-14.92	46.00	31.56	29.61	4.15	34.24	--- --- Peak
8	2966.00	42.42	-31.58	74.00	54.86	28.67	8.83	49.94	--- --- Peak
9	4530.00	45.76	-28.24	74.00	54.51	30.72	10.12	49.59	--- --- Peak
10	6538.00	46.34	-27.66	74.00	49.83	34.18	11.33	49.00	--- --- Peak
11	8366.00	47.21	-26.79	74.00	46.96	37.13	12.90	49.78	--- --- Peak
12	10958.00	47.36	-26.64	74.00	40.06	40.54	14.79	48.03	--- --- Peak
13	12947.00	47.43	-26.57	74.00	38.65	39.04	16.38	46.64	100 87 Peak



Test Engineer :	Zhongmin Zhang	Temperature :	24~25°C
		Relative Humidity :	48~49%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH02-SZ
 Condition : FCC CLASS-B 3m VULB9168-01001 VERTICAL

Mode : Mode 1
 IMEI : 354352850450062/867400020316620
 Plane : Y

	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	37.76	34.10	-5.90	40.00	47.65	19.47	1.98	35.00	---	---	Peak
2	146.40	39.66	-3.84	43.50	52.87	19.36	2.54	35.11	100	163	Peak
3	195.87	34.36	-9.14	43.50	50.19	16.54	2.73	35.10	---	---	Peak
4	235.64	31.72	-14.28	46.00	46.11	17.82	2.82	35.03	---	---	Peak
5	603.27	27.88	-18.12	46.00	32.67	25.82	3.89	34.50	---	---	Peak
6 *	881.40	42.82			44.05	28.88	4.19	34.30	---	---	Peak
7	943.74	31.43	-14.57	46.00	31.81	29.74	4.09	34.21	---	---	Peak
8	2978.00	42.36	-31.64	74.00	54.79	28.64	8.86	49.93	---	---	Peak
9	4696.00	45.84	-28.16	74.00	54.12	31.01	10.27	49.56	---	---	Peak
10	6746.00	46.55	-27.45	74.00	49.92	34.64	11.53	49.54	---	---	Peak
11	8958.00	47.10	-26.90	74.00	46.09	37.64	12.89	49.52	---	---	Peak
12	10964.00	47.51	-26.49	74.00	40.16	40.55	14.83	48.03	100	147	Peak
13	12917.00	46.76	-27.24	74.00	38.18	39.00	16.25	46.67	---	---	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	ESR7	101630	9kHz~7GHz;	Dec. 25, 2020	Feb. 01, 2021	Dec. 24, 2021	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2 LISN	00103912	9kHz~30MHz	Dec. 25, 2020	Feb. 01, 2021	Dec. 24, 2021	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 15, 2020	Feb. 01, 2021	Oct. 14, 2021	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 21, 2020	Feb. 01, 2021	Jul. 20, 2021	Conduction (CO01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 16, 2020	Jan. 28, 2021	Oct. 15, 2021	Radiation (03CH02-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 21, 2020	Jan. 28, 2021	Jul. 20, 2021	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Jul. 15, 2020	Jan. 28, 2021	Jul. 14, 2021	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 25, 2020	Jan. 28, 2021	Jul. 24, 2021	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 23, 2020	Jan. 28, 2021	Apr. 22, 2021	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 16, 2020	Jan. 28, 2021	Oct. 15, 2021	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 16, 2020	Jan. 28, 2021	Oct. 15, 2021	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz	Jul. 21, 2020	Jan. 28, 2021	Jul. 20, 2021	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	Jan. 28, 2021	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jan. 28, 2021	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jan. 28, 2021	NCR	Radiation (03CH02-SZ)

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% ($U = 2Uc(y)$)	2.7dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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

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

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