



FCC Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2052-1,XT2052-5,XT2052-DL,XT2052-6
FCC ID : IHDT56YQ1
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification

The product was received on Dec. 21, 2019 and testing was completed on Dec. 30, 2019. 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

James Huang

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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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC9D2102	Rev. 01	Initial issue of report	Mar. 27, 2020

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 7.20 dB at 0.549 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 6.31 dB at 471.350 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 IL 60654 USA

1.2. Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2052-1,XT2052-5,XT2052-DL,XT2052-6
FCC ID	IHDT56YQ1
EUT supports Radios application	CDMA/GSM/WCDMA/LTE WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 Bluetooth BR/EDR/LE FM Receiver and GNSS
IMEI Code	Conduction: 351636110008238 Radiation: 351636110007768
HW Version	DVT2
SW Version	QPG30.69
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	
Tx Frequency	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 LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 25 : 1850.7 MHz ~ 1914.3 MHz LTE Band 26 : 814.7 MHz ~ 848.3 MHz LTE Band 38 : 2572.5 MHz ~ 2617.5 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz LTE Band 66 : 1710.7 MHz ~ 1779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5MHz CDMA2000 BC0: 824.70 MHz ~ 848.31 MHz CDMA2000 BC1: 1851.25 MHz ~ 1908.75 MHz CDMA2000 BC10: 817.9 MHz ~ 823.1 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Rx Frequency	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 LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 7 : 2622.5 MHz ~ 2687.5 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25 : 1930.7 MHz ~ 1994.3 MHz LTE Band 26 : 859.7 MHz ~ 893.3 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz LTE Band 66 : 2110.7 MHz~ 2199.3 MHz LTE Band 71: 619.5 MHz ~ 649.5MHz CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz CDMA2000 BC1: 1931.25 MHz ~ 1988.75 MHz CDMA2000 BC10: 862.9 MHz ~ 868.1 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz;

	5500 MHz ~ 5700 MHz 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GNSS : 1559 MHz ~ 1610 MHz FM: 88 MHz ~ 108 MHz
Antenna Type	WWAN : PIFA Antenna WLAN 2.4GHz : LOOP Antenna WLAN 5GHz : Monopole Antenna Bluetooth : LOOP Antenna GNSS: LOOP Antenna FM : External Earphone Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK (Uplink) HSDPA/DC-HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM (16QAM uplink is not supported) DC-HSDPA : 64QAM LTE: QPSK / 16QAM / 64QAM CDMA2000 1xRTT: QPSK CDMA2000 1xEV-DO: QPSK/8PSK 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK FM

Note: GNSS Rx = GLONASS + GPS + Galileo

1.5. Specification of Accessory

Specification of Accessory				
AC Adapter 1	Brand Name	Motorola (Chenyang)	Model Name	SC-61
	Power Rating	I/P: 100-240 Vac, 130mA, O/P: 5Vdc,1000mA		
AC Adapter 2	Brand Name	Motorola (Acbel)	Model Name	SC-61
	Power Rating	I/P: 100-240 Vac, 130mA, O/P: 5Vdc, 1000mA		
Battery	Brand Name	Motorola (NVT+ATL)	Model Name	LC40
	Power Rating	3.8Vdc,3340mAh	Type	Li-ion polymer
USB Cable	Brand Name	Motorola (SAIBAO)	Model Name	SLQ-A138A
	Signal Line Type	1.0 meter, shielded cable, without ferrite core		

1.6. Modification of EUT

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

1.7. 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 03CH06-KS	CN1257	314309

1.8. Test Software

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

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

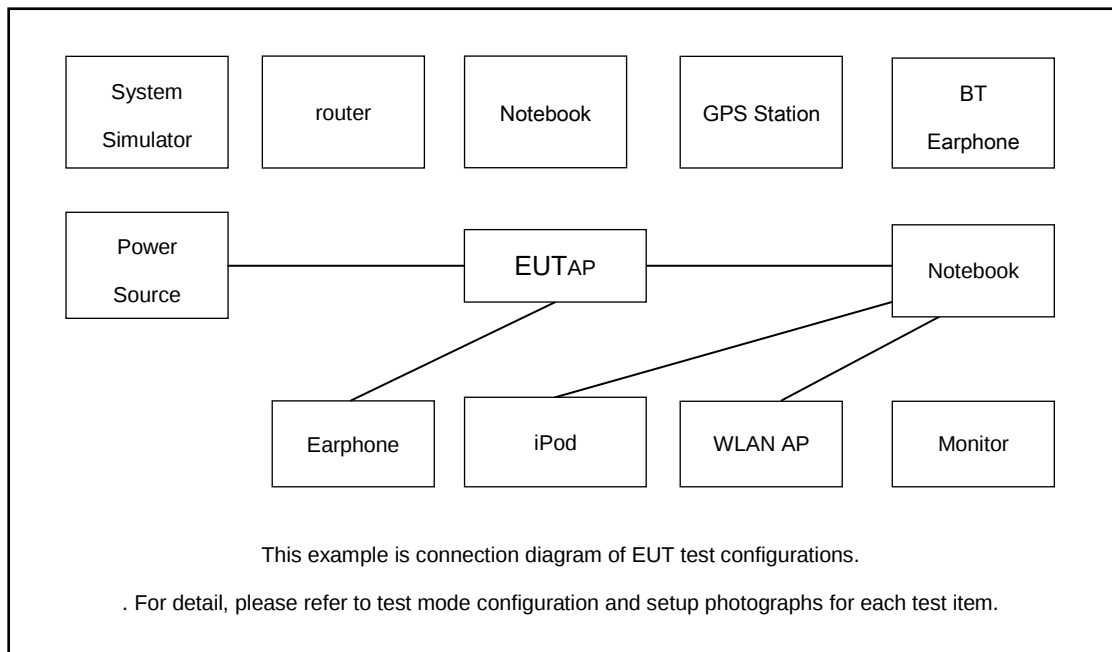
The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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: GSM850 Rx (Middle) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Earphone + USB Cable(Charging from Adapter 1)
	Mode 2: WCDMA Band II + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + USB Cable(Charging from Adapter 2)
	Mode 3: CDMA BC10 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + MP4 + Earphone + USB Cable(Charging from Adapter 2)
	Mode 4: LTE Band 13 Rx(High) + Bluetooth Idle + WLAN (5G) Idle + FM Rx(98MHz) + Earphone + USB Cable(Charging from Adapter 2)
	Mode 5: LTE Band 17 Rx(High) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + USB Cable(Charging from Adapter 2)
	Mode 6: LTE Band 26 Rx(Low) + Bluetooth Idle + WLAN (5G) Idle + GNSS Rx + Earphone + USB Cable(Data Link with Notebook)
	Mode 7: LTE Band 12 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + USB Cable(Charging from Adapter 2)
	Mode 8: LTE Band 71 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + USB Cable(Charging from Adapter 2)

Radiated Emissions	Mode 1: GSM850 Rx (Middle) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Earphone + USB Cable(Charging from Adapter 1) + SIM1 Mode 2: WCDMA Band II + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + USB Cable(Charging from Adapter 2) + SIM2 Mode 3: CDMA BC10 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + MP4 + Earphone + USB Cable(Charging from Adapter 1) + SIM1 Mode 4: LTE Band 13 Rx(High) + Bluetooth Idle + WLAN (5G) Idle + FM Rx(88MHz) + Earphone + USB Cable(Charging from Adapter 1) + SIM2 Mode 5: LTE Band 17 Rx(High) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + USB Cable(Charging from Adapter 1) + SIM1 Mode 6: LTE Band 26 Rx(Low) + Bluetooth Idle + WLAN (5G) Idle + GNSS Rx + Earphone + USB Cable(Data Link with Notebook) + SIM2 Mode 7: LTE Band 12 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + GNSS Rx + Earphone + USB Cable(Data Link with Notebook) + SIM1 Mode 8: LTE Band 71 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + GNSS Rx + Earphone + USB Cable(Data Link with Notebook) + SIM1
Remark: 1. The worst case of AC is mode 2; only the test data of this mode is reported. 2. The worst case of RE is mode 6; 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 for GSM 850/CDMA BC0/10/WCDMA Band V/LTE Band 5/12/13/17/26/71, 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.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
3.	Vector Signal Generator	R&S	SMBV100A	258305	N/A	N/A
4.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
5.	WLAN AP	TP-Link	TL-WDR5600	N/A	N/A	Unshielded,1.8m
6.	Earphone	Lenovo	SH100	N/A	N/A	N/A
7.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
8.	Bluetooth Earphone	Xiaomi	LYEJ02LM	N/A	N/A	N/A
9.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
10.	Notebook	Lenovo	V130-141KB001	N/A	N/A	Unshielded,1.8m
11.	Hard Disk	Lenovo	F310	DoC	Shielded, 1.2m	N/A
12.	SD Card	Kingston	8GB	N/A	N/A	N/A
13.	SD Card	SanDisk	Uitra	N/A	N/A	N/A
14.	Hard disk	Lenovo	FH310	Fcc DoC	Shielded, 1.2m	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or CDMA2000 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 FM receiver function to make the EUT receive continuous signals from FM station.
5. Turn on camera to capture images.

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

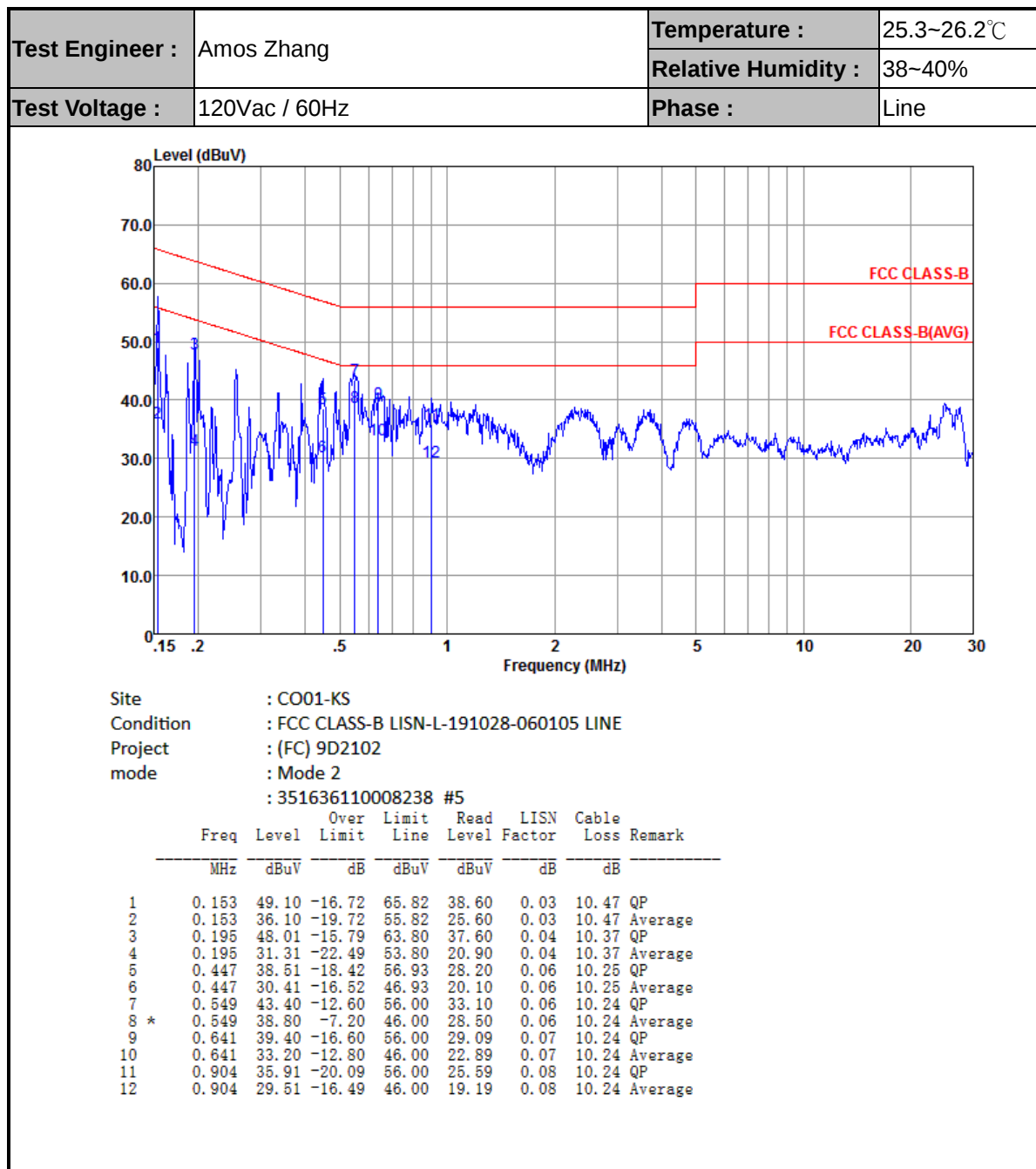
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.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



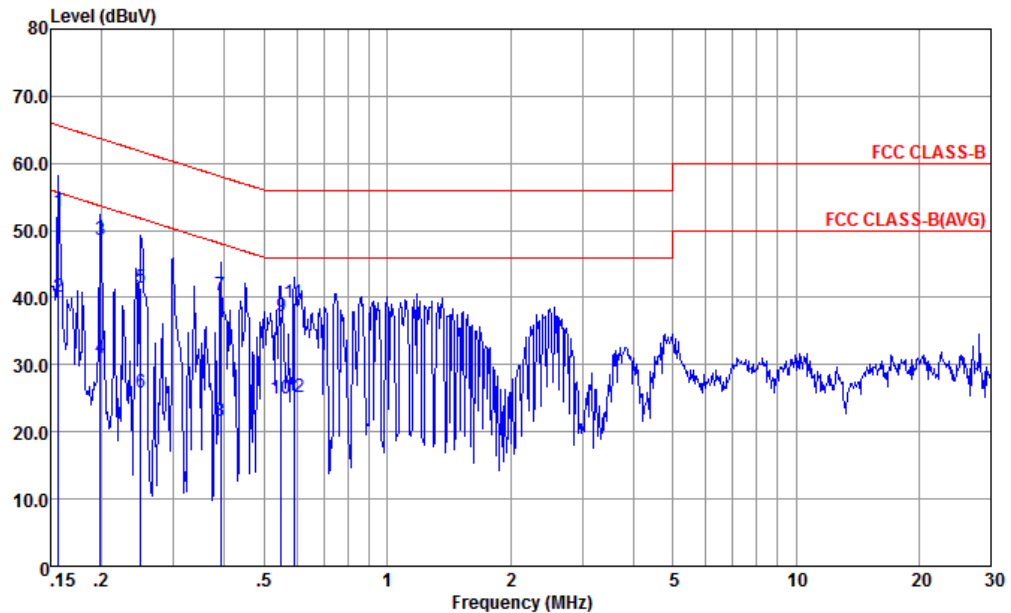


3.1.5 Test Result of AC Conducted Emission





Test Engineer :	Amos Zhang	Temperature :	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Site : CO01-KS
 Condition : FCC CLASS-B LISN-N-191028-060105 NEUTRAL
 Project : (FC) 9D2102
 mode : Mode 2
 : 351636110008238 #5

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.156	52.74	-12.91	65.65	42.20	0.08	10.46	QP
2	0.156	40.14	-15.51	55.65	29.60	0.08	10.46	Average
3	0.199	48.55	-15.12	63.67	38.10	0.08	10.37	QP
4	0.199	31.05	-22.62	53.67	20.60	0.08	10.37	Average
5	0.249	41.52	-20.26	61.78	31.11	0.08	10.33	QP
6	0.249	25.92	-25.86	51.78	15.51	0.08	10.33	Average
7	0.391	40.26	-17.77	58.03	29.90	0.09	10.27	QP
8	0.391	21.66	-26.37	48.03	11.30	0.09	10.27	Average
9	0.549	37.14	-18.86	56.00	26.80	0.10	10.24	QP
10	0.549	24.94	-21.06	46.00	14.60	0.10	10.24	Average
11	0.592	39.24	-16.76	56.00	28.90	0.10	10.24	QP
12	0.592	25.24	-20.76	46.00	14.90	0.10	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

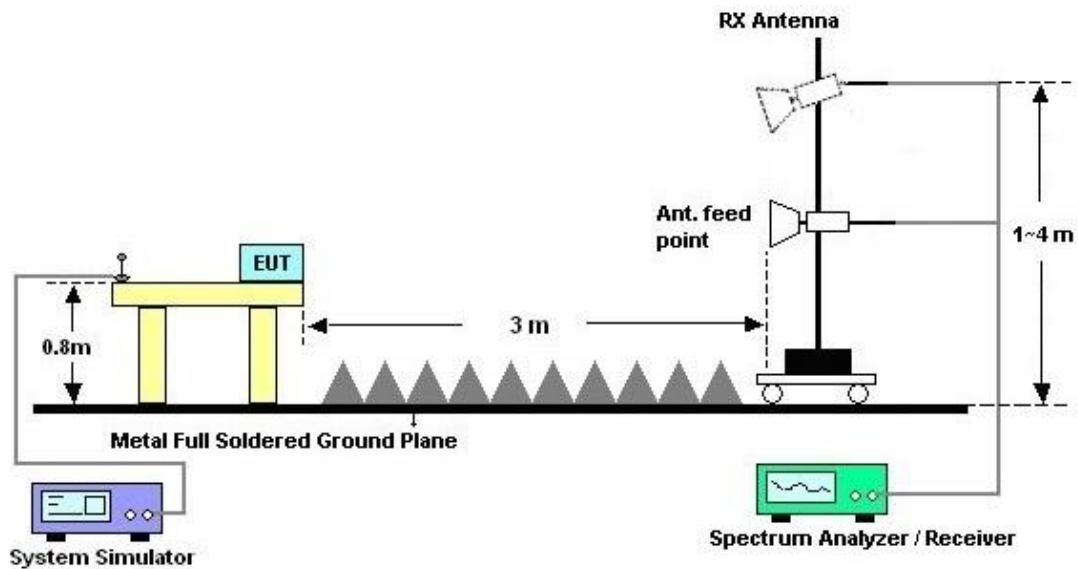
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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



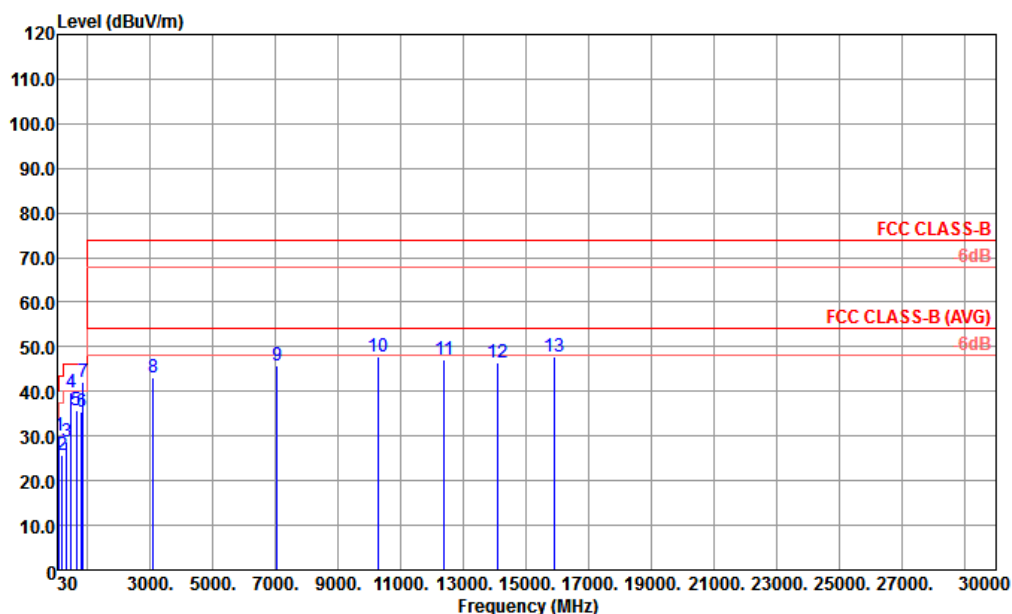
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

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

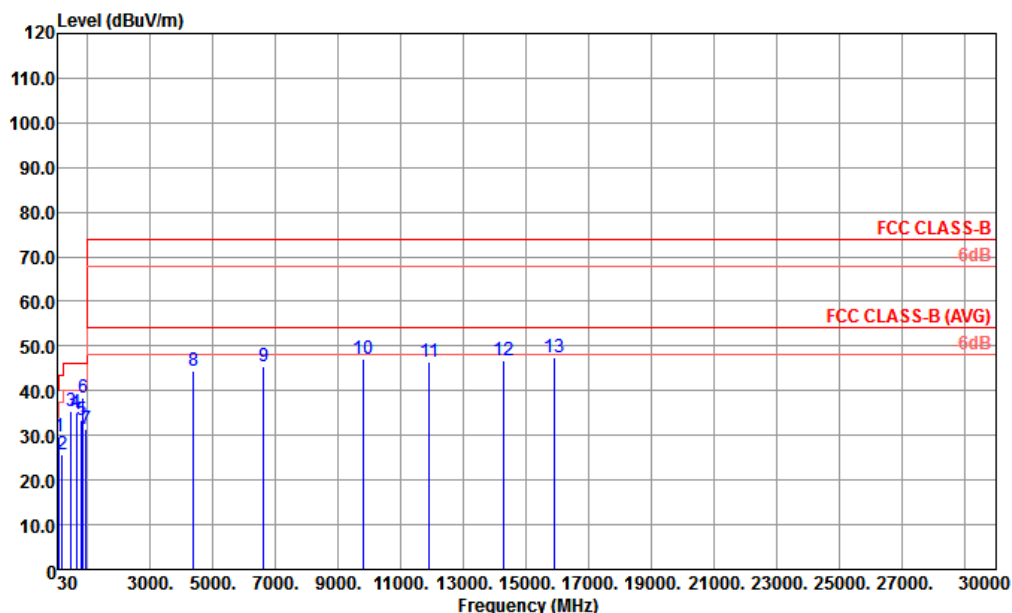


Site : 03CH06-KS
Condition : FCC CLASS-B 3m LF 49922-3M HORIZONTAL
Project : (FC)9D2102
Mode : 6
IMEI : 351636110007768#1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	90.140	30.23	-13.27	43.50	46.05	15.00	1.10	31.92	---	Peak
2	179.380	25.74	-17.76	43.50	40.16	15.96	1.54	31.92	---	Peak
3	317.120	28.78	-17.22	46.00	39.04	19.75	2.02	32.03	---	Peak
4	471.350	39.69	-6.31	46.00	45.95	23.52	2.46	32.24	100	0 Peak
5	639.160	35.83	-10.17	46.00	38.86	26.47	2.87	32.37	---	Peak
6	797.270	35.45	-10.55	46.00	36.10	28.22	3.26	32.13	---	Peak
7	861.290	42.00			41.06	29.28	3.37	31.71	---	Peak
8	3088.000	43.22	-30.78	74.00	35.60	33.55	6.45	32.38	---	Peak
9	7056.000	45.73	-28.27	74.00	30.83	36.22	9.99	31.31	---	Peak
10	10269.000	47.67	-26.33	74.00	28.71	37.94	12.76	31.74	---	Peak
11	12393.000	47.13	-26.87	74.00	25.62	39.26	14.02	31.77	---	Peak
12	14085.000	46.40	-27.60	74.00	22.92	39.32	15.58	31.42	---	Peak
13	15885.000	47.67	-26.33	74.00	22.28	40.40	16.77	31.78	---	Peak



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



Site : 03CH06-KS
Condition : FCC CLASS-B 3m LF 49922-3M VERTICAL
Project : (FC)9D2102
Mode : 6
IMEI : 351636110007768#1

	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	90.140	29.60	-13.90	43.50	45.42	15.00	1.10	31.92	---	Peak
2	181.320	25.69	-17.81	43.50	40.18	15.88	1.54	31.91	---	Peak
3	471.350	35.30	-10.70	46.00	41.56	23.52	2.46	32.24	100	Peak
4	644.980	35.07	-10.93	46.00	38.00	26.54	2.89	32.36	---	Peak
5	797.270	33.32	-12.68	46.00	33.97	28.22	3.26	32.13	---	Peak
6	861.290	38.37			37.43	29.28	3.37	31.71	---	Peak
7	958.290	31.44	-14.56	46.00	27.96	30.83	3.56	30.91	---	Peak
8	4376.000	44.32	-29.68	74.00	33.75	34.45	7.88	31.76	---	Peak
9	6616.000	45.49	-28.51	74.00	31.54	35.87	9.70	31.62	---	Peak
10	9774.000	47.20	-26.80	74.00	28.40	37.80	12.33	31.33	---	Peak
11	11907.000	46.51	-27.49	74.00	25.30	39.34	13.76	31.89	---	Peak
12	14256.000	46.70	-27.30	74.00	23.25	39.35	15.59	31.49	---	Peak
13	15912.000	47.44	-26.56	74.00	22.02	40.41	16.79	31.78	---	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	ESCI7	100768	9kHz~7GHz;	Apr. 16, 2019	Dec. 30, 2019	Apr. 15, 2020	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2019	Dec. 30, 2019	Oct. 10, 2020	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 18, 2019	Dec. 30, 2019	Oct. 17, 2020	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2019	Dec. 30, 2019	Oct. 10, 2020	Conduction (CO01-KS)
EMI Test Receiver	Keysight	N9038A	MY57290157	3Hz~8.5GHz;Max 30dBm	Jul. 18, 2019	Dec. 30, 2019	Jul. 17, 2020	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz~44GHz	Apr. 16, 2019	Dec. 30, 2019	Apr. 18, 2020	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	May. 30, 2019	Dec. 30, 2019	May. 29, 2020	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 27, 2019	Dec. 30, 2019	Jan. 26, 2020	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 09, 2019	Dec. 30, 2019	Jan.08, 2020	Radiation (03CH06-KS)
Amplifier	MITEQ	TTA1840-35-HG	2014749	18~40GHz	Jan. 14, 2019	Dec. 30, 2019	Jan.13, 2020	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2019	Dec. 30, 2019	Aug. 05, 2020	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 15, 2019	Dec. 30, 2019	Apr. 14, 2020	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 30, 2019	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 30, 2019	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 30, 2019	NCR	Radiation (03CH06-KS)

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% ($U = 2Uc(y)$)	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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