

FCC Test Report

Report No.: AGC02707180601FE01

FCC ID : 2AP7L-ETHOS
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Mobile Phone
BRAND NAME : MI
MODEL NAME : ETHOS
CLIENT : Whoop International Trading Limited
DATE OF ISSUE : July 05, 2018
STANDARD(S) : FCC Part 15B Rules
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	July 05, 2018	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Whoop International Trading Limited
Address	Flat-B 8/F Chong Gming Building 72 Cheung Sha Wan Road, Kowloon, Hong Kong, China
Manufacturer	Shenzhen Fortune Ship Technology Co.,Ltd.
Address	6-7th Floor, Kingson Building, New energy and innovation industrial park, 1st Chuangsheng Road , Xili town, Nanshan District, Shenzhen, China
Product Designation	Mobile Phone
Brand Name	MI
Test Model	ETHOS
Hardware Version	YK736_MB_V0.2
Software Version	MI_ETHOS_V1.2_20180623
Date of test	June 12, 2018~July 05, 2018
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-IT/AC

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2014. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested By

Nice.xie

Nice Xie(Xie xiaosong)

July 05, 2018

Reviewed By

Bart.xie

Bart Xie(Xie Xiaobin)

July 05, 2018

Approved By

Forrest.lei

Forrest Lei(Lei Yonggang)
Authorized Officer

July 05, 2018

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2. SYSTEM DESCRIPTION

EUT test procedure:

1. Connect EUT and peripheral devices (PC) through USB port.
2. Power on the EUT, use the software to transfer data between EUT and PC.
3. Make sure the EUT operates normally during the test.

Test Mode

TEST MODE DESCRIPTION		
NO.	TEST MODE DESCRIPTION	WORST
1	USB (connection for data transferring)	V
Note: 1. V means EMI worst mode		

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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB

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4. PRODUCT INFORMATION

Housing Type	Plastic and metal
Hardware Version	YK736_MB_V0.2
Software Version	MI_ETHOS_V1.0_20180521
EUT Input Rating	DC3.8V by battery or DC 5V by Micro-USB

I/O Port Information (☒ Applicable ☐ Not Applicable)

Item	Equipment	Model No.	ID or Specification	Remark
1	Mobile Phone	ETHOS	2AP7L-ETHOS	EUT
2	Adapter	TPA-46B050100UU	DC 5.0V 1A	Accessory
3	Battery	ETHOS-B01	DC 3.8V/2450mAh	Accessory
4	Earphone	N/A	N/A	Accessory
5	USB Cable	N/A	N/A	Accessory

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5. SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
PC	Apple Inc.	--	--	--	0.8m Unshielded
Adapter	Apple Inc.	--	--	--	1.25m Unshielded

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

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6. TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP LAB CODE	600153-0
Designation Number	CN5028
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.12, 2018	Jun.11, 2019
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.12, 2018	Jun.11, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May.18, 2017	May.17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.12, 2018	Jun.11, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018

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7. TEST ITEMS AND THE RESULTS

Test item	Test Requirement	Test Method	Class/Severity	Result
CONDUCTED EMISSION	FCC Part 15.107 Rules	ANSI C63.4:2014	Class B	Pass
RADIATED EMISSION	FCC Part 15.109 Rules	ANSI C63.4:2014	Class B	Pass

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8. FCCLINE CONDUCTED EMISSION TEST

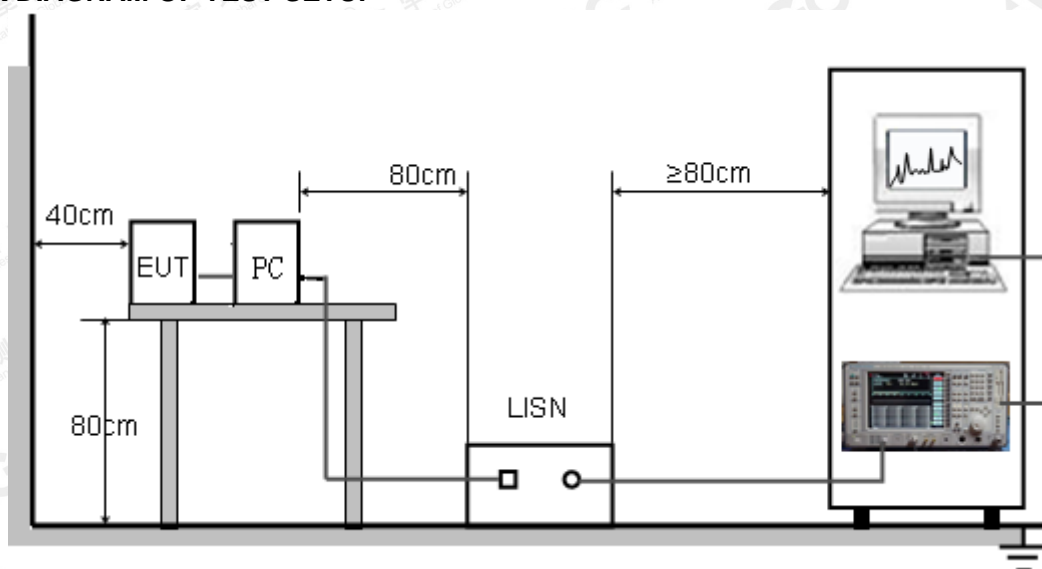
8.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

8.2. BLOCK DIAGRAM OF TEST SETUP



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8.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST

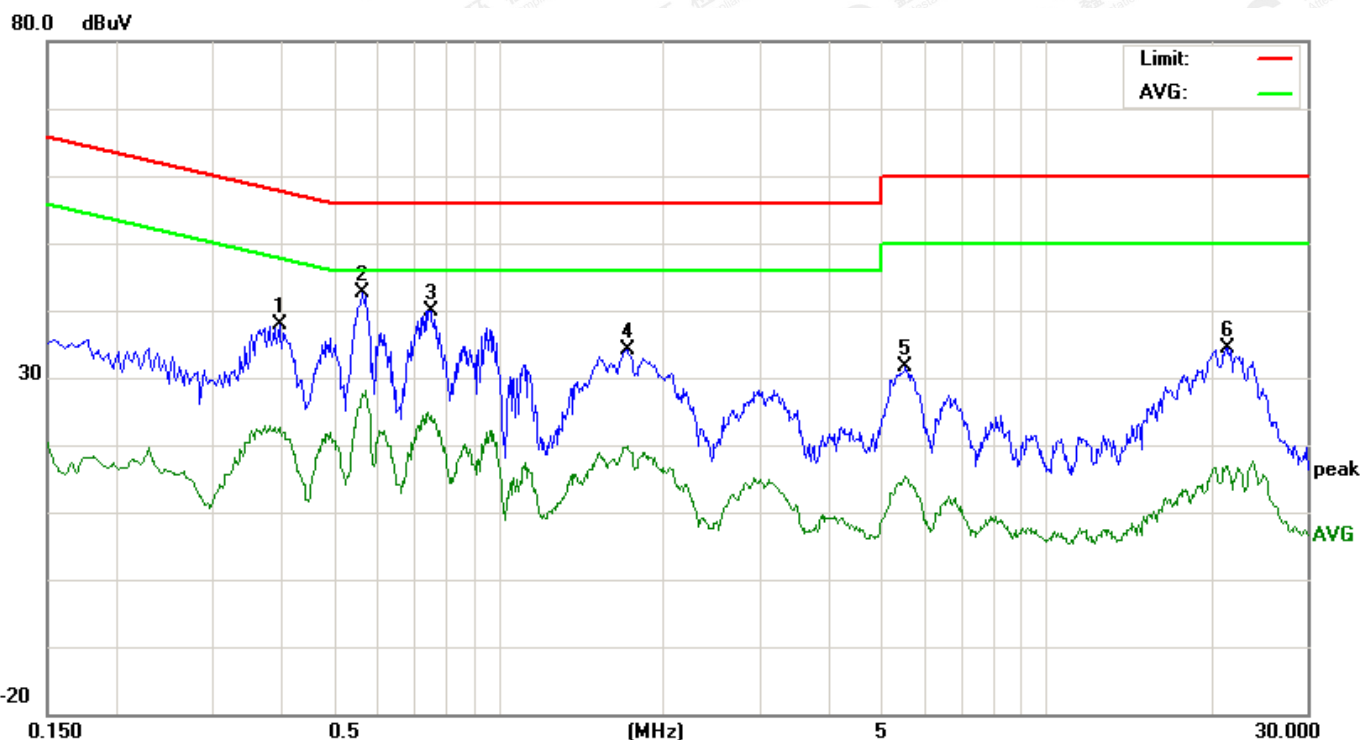
- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per ANSI C63.4.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- (4) The EUT received DC5V power from PC with receive AC120V/60Hz power from a LISN.
- (5) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- (6) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- (7) During the above scans, the emissions were maximized by cable manipulation.
- (8) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions.
- (9) Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

The test data of the worst case condition (mode 1) was reported on the Summary Data page.

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8.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

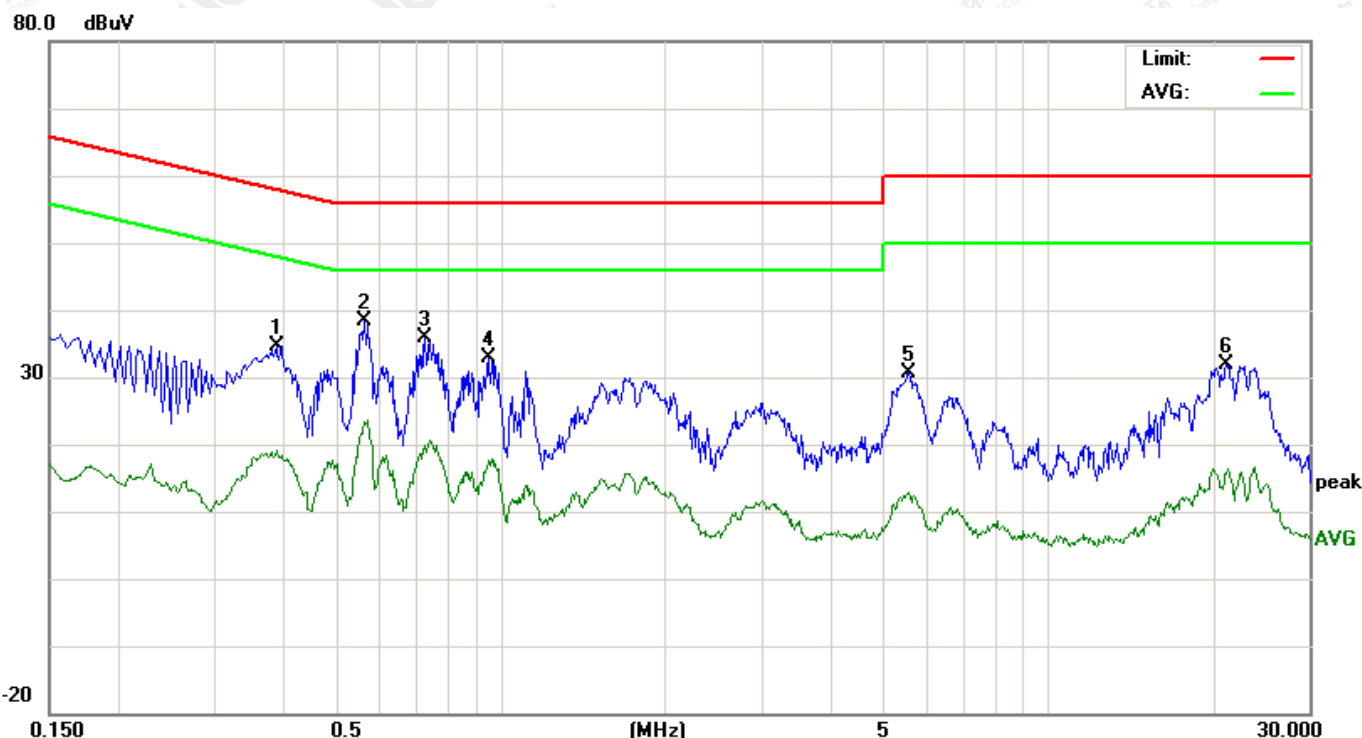
LINE CONDUCTED EMISSION TEST-L



No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor (dB)	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.3980	27.47		12.34	10.33	37.80		22.67	57.89	47.89	-20.09	-25.22	P	
2	0.5660	32.21		17.24	10.34	42.55		27.58	56.00	46.00	-13.45	-18.42	P	
3	0.7539	29.65		14.09	10.31	39.96		24.40	56.00	46.00	-16.04	-21.60	P	
4	1.7180	23.85		9.47	10.31	34.16		19.78	56.00	46.00	-21.84	-26.22	P	
5	5.5579	21.36		5.09	10.25	31.61		15.34	60.00	50.00	-28.39	-34.66	P	
6	21.4740	24.18		6.63	10.13	34.31		16.76	60.00	50.00	-25.69	-33.24	P	

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LINE CONDUCTED EMISSION TEST-N



No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor (dB)	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.3899	24.23		8.87	10.33	34.56		19.20	58.06	48.06	-23.50	-28.86	P	
2	0.5660	28.09		12.98	10.34	38.43		23.32	56.00	46.00	-17.57	-22.68	P	
3	0.7300	25.52		9.60	10.33	35.85		19.93	56.00	46.00	-20.15	-26.07	P	
4	0.9500	22.41		7.24	10.39	32.80		17.63	56.00	46.00	-23.20	-28.37	P	
5	5.5739	20.30		2.65	10.25	30.55		12.90	60.00	50.00	-29.45	-37.10	P	
6	21.2500	21.86		5.40	10.13	31.99		15.53	60.00	50.00	-28.01	-34.47	P	

RESULT: PASS

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9. FCC RADIATED EMISSION TEST

9.1. EXCEPT FOR CLASS A DIGITAL DEVICES, THE FIELD STRENGTH OF RADIATED EMISSIONS FROM UNINTENTIONAL RADIATORS AT A DISTANCE OF 3 METERS SHALL NOT EXCEED THE FOLLOWING VALUES:

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m/ Q.P.)
30~88	3	40.0
88~216	3	43.5
216~960	3	46.0
Above 960	3	54.0

Note: The lower limit shall apply at the transition frequency.

9.1.1 The following table is the setting of spectrum analyzer and receiver:

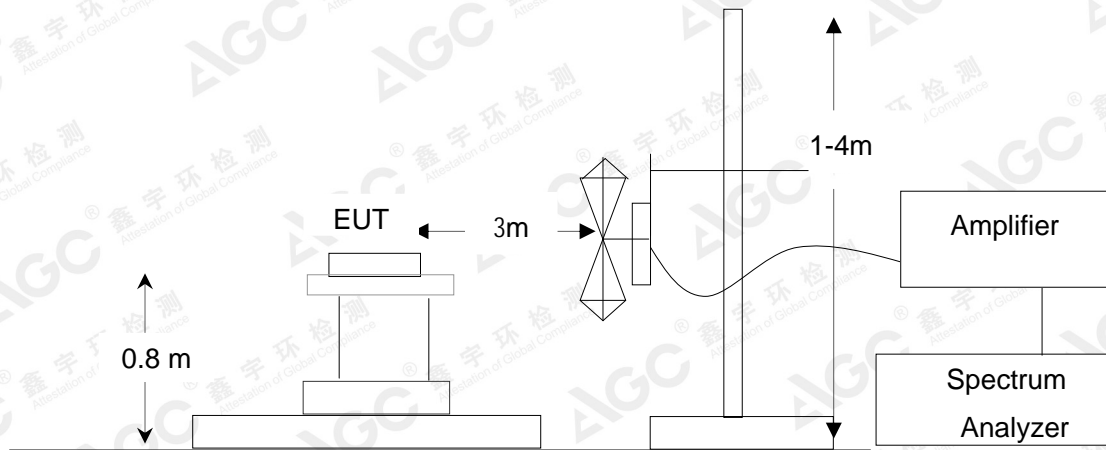
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

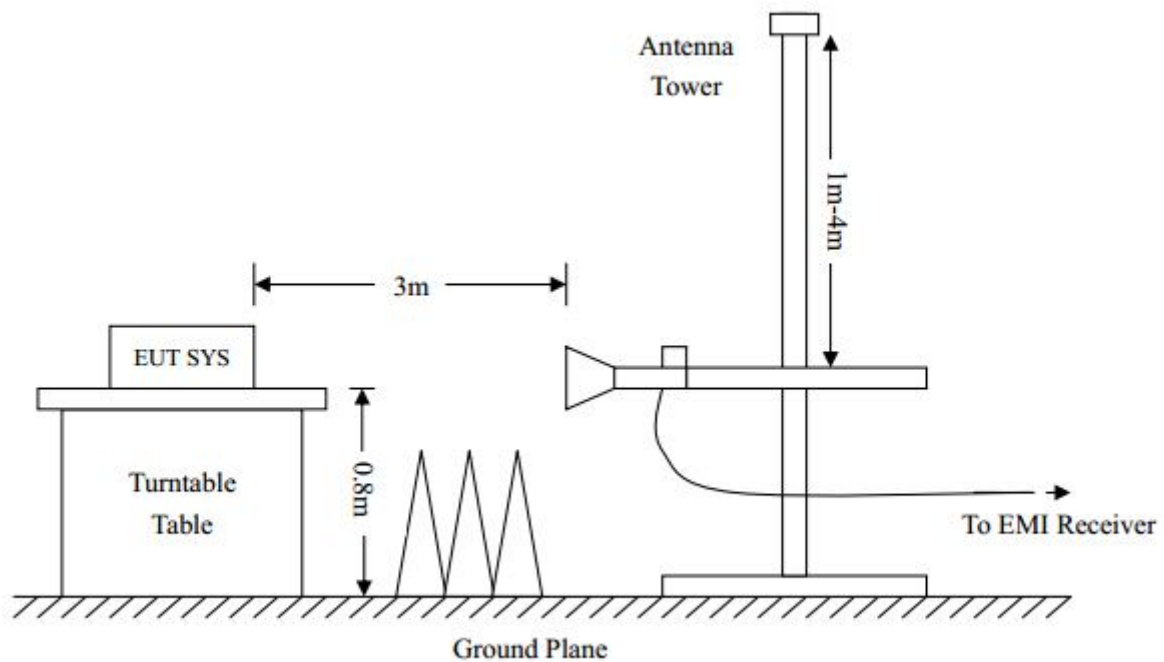
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9.2. BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.3. PROCEDURE OF RADIATED EMISSION TEST

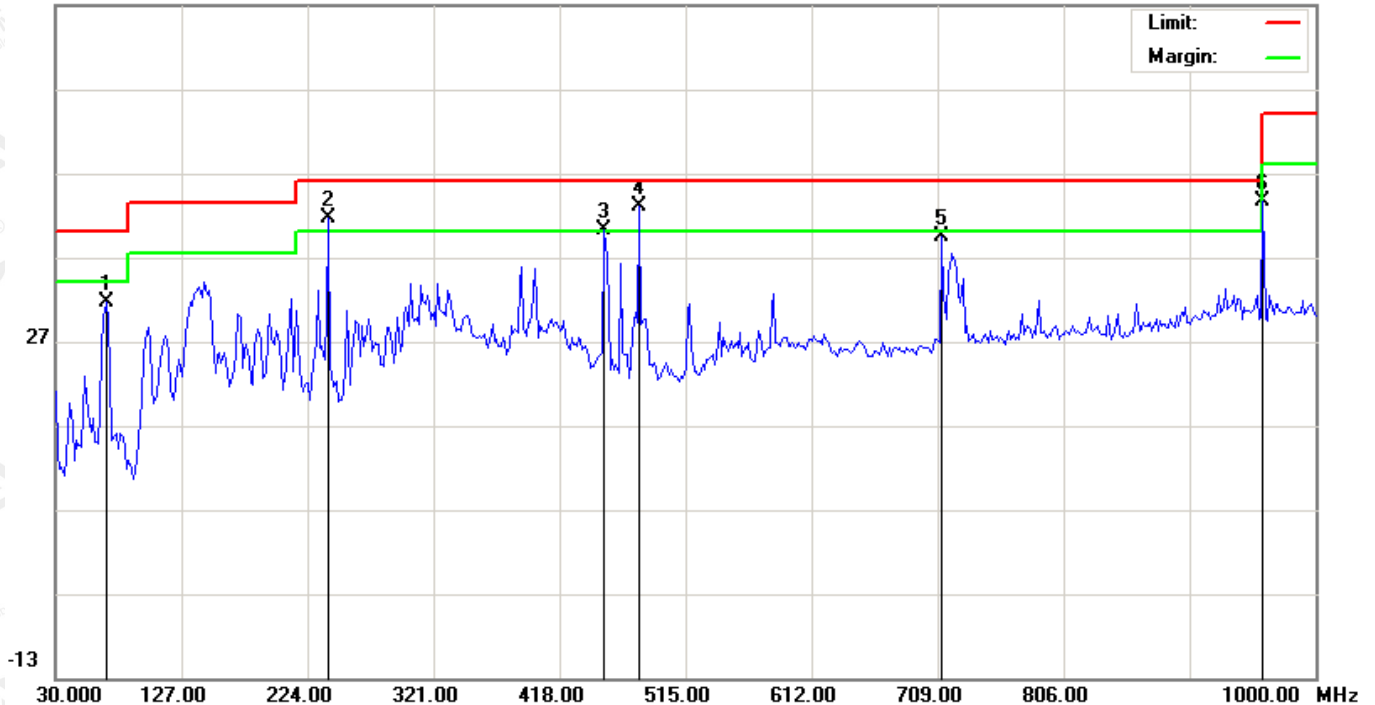
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Then 1MHz RBW and 3MHz VBW for average reading in spectrum analyzer. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.
11. The test data of the worst case condition (mode 1) was reported on the Summary Data page.

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9.4. TEST RESULT OF RADIATED EMISSION TEST

RADIATED EMISSION TEST AT 3M DISTANCE-HORIZONTAL

66.9 dBuV/m

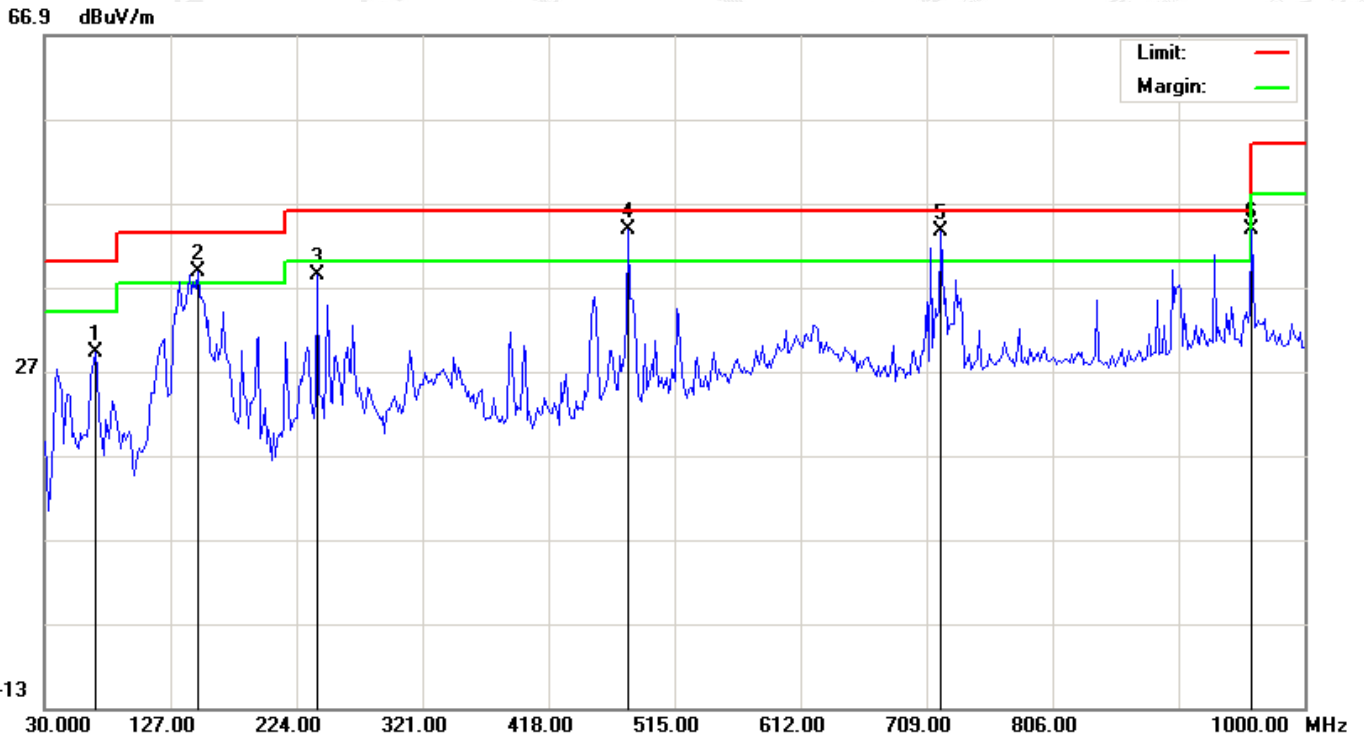


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		68.8000	22.59	9.09	31.68	40.00	-8.32	peak			
2	!	240.1667	33.72	7.90	41.62	46.00	-4.38	peak			
3	!	451.9500	19.65	20.61	40.26	46.00	-5.74	peak			
4	!	479.4333	22.06	20.91	42.97	46.00	-3.03	peak			
5		712.2333	13.89	25.56	39.45	46.00	-6.55	peak			
6	*	959.5833	13.60	29.91	43.51	46.00	-2.49	peak			

RESULT: PASS

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RADIATED EMISSION TEST AT 3M DISTANCE-VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		68.8000	24.55	4.73	29.28	40.00	-10.72	peak			
2	!	148.0166	23.60	15.25	38.85	43.50	-4.65	peak			
3		240.1667	25.43	12.94	38.37	46.00	-7.63	peak			
4	*	479.4333	22.93	20.91	43.84	46.00	-2.16	peak			
5	!	720.3167	17.87	25.78	43.65	46.00	-2.35	peak			
6	!	959.5833	13.89	29.91	43.80	46.00	-2.20	peak			

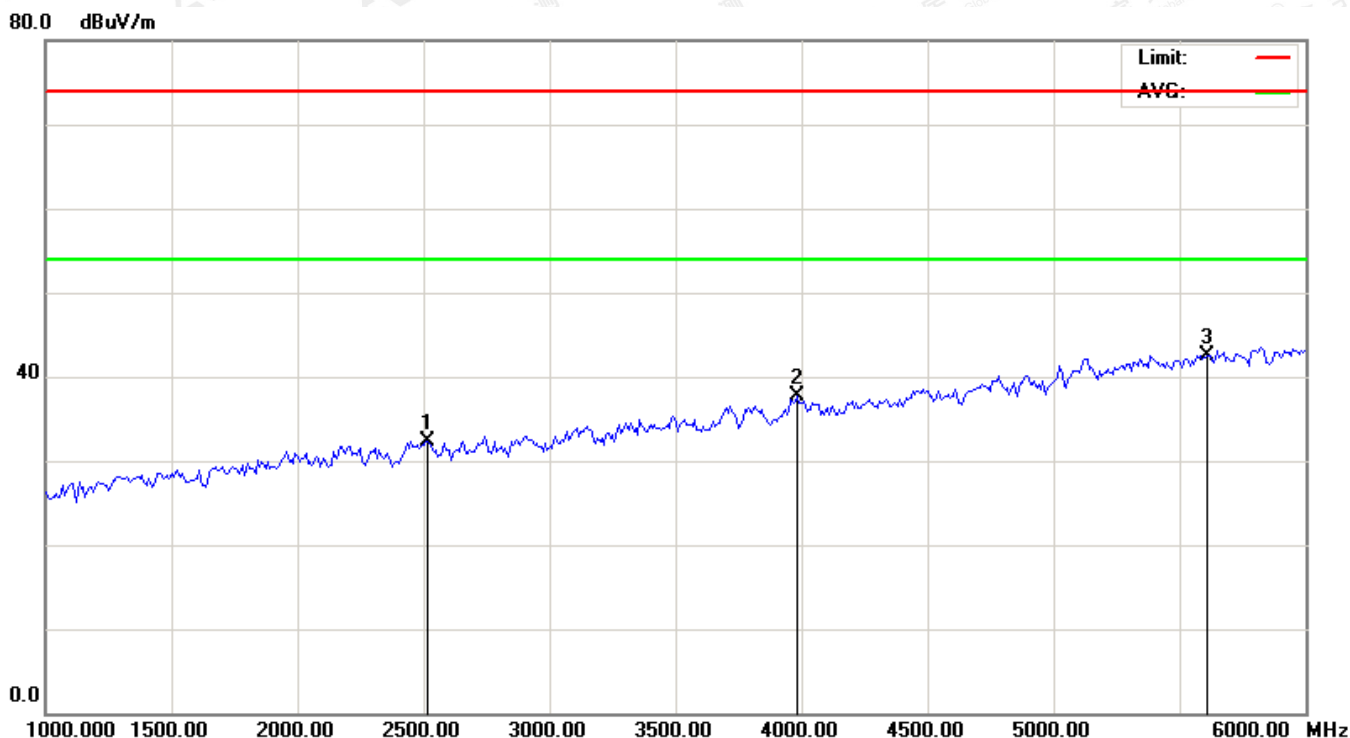
RESULT: PASS

Note: 1.Measurement = Reading + Factor, Over = Measurement – Limit.

2. The “Factor” value can be calculated automatically by software of measurement system.

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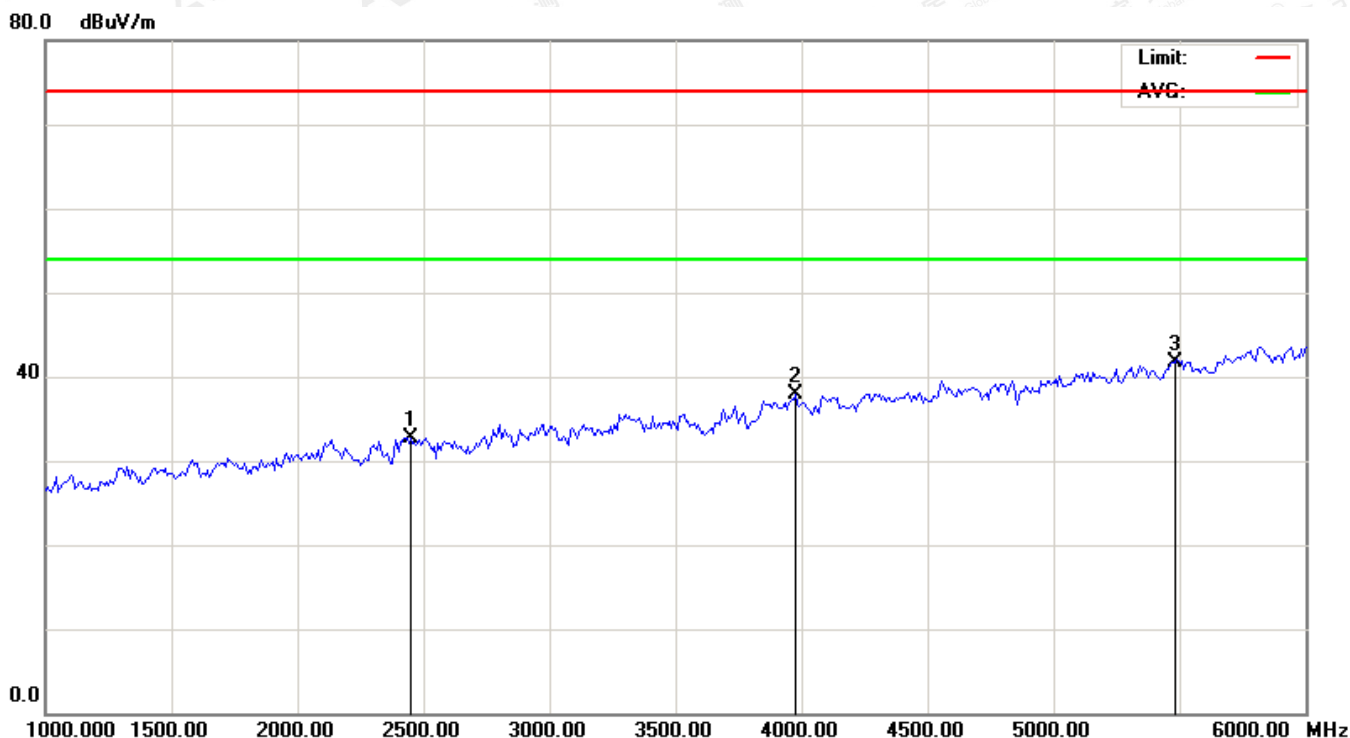
RADIATED EMISSION ABOVE 1GHZ (1-10TH HARMONICS) –HORIZONTAL



No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2516.667	16.64	15.69	32.33	74.00	-41.67	peak			
2		3983.333	20.55	17.18	37.73	74.00	-36.27	peak			
3	*	5608.333	26.66	15.86	42.52	74.00	-31.48	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10TH HARMONICS) –VERTICAL



No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2450.000	17.13	15.66	32.79	74.00	-41.21	peak			
2		3975.000	20.69	17.16	37.85	74.00	-36.15	peak			
3	*	5483.333	25.95	15.83	41.78	74.00	-32.22	peak			

- Note:** 1. Emissions range from 6GHz to 12.5GHz have 20dB margin. No recording in the test report.
2. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.
3. The "Factor" value can be calculated automatically by software of measurement system.

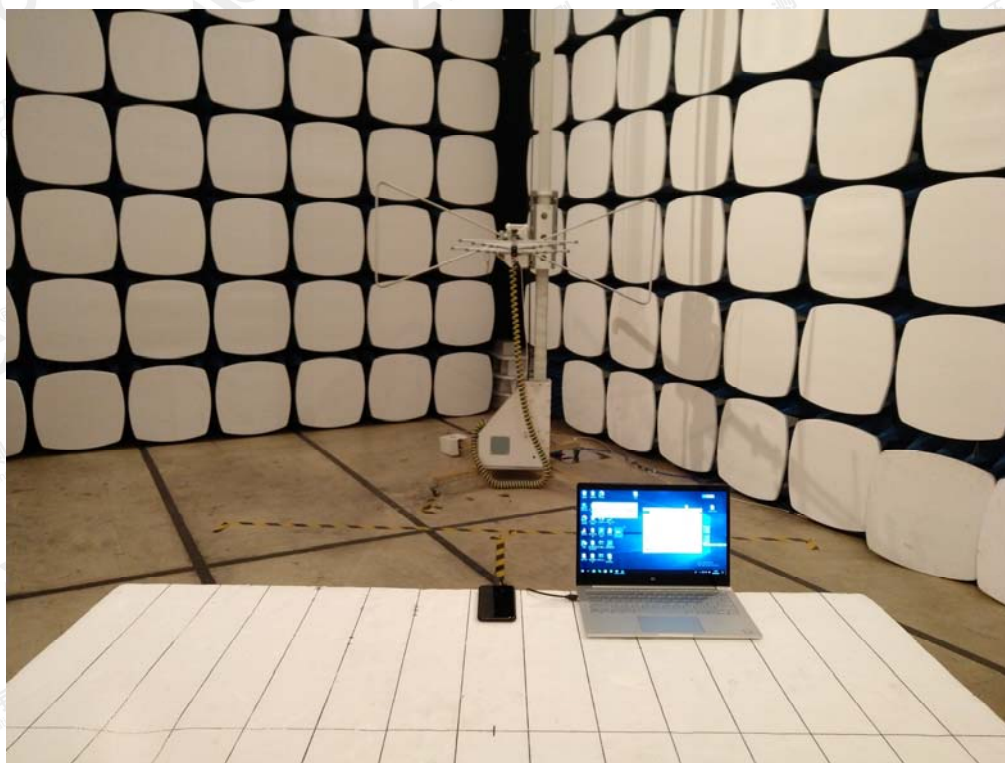
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP

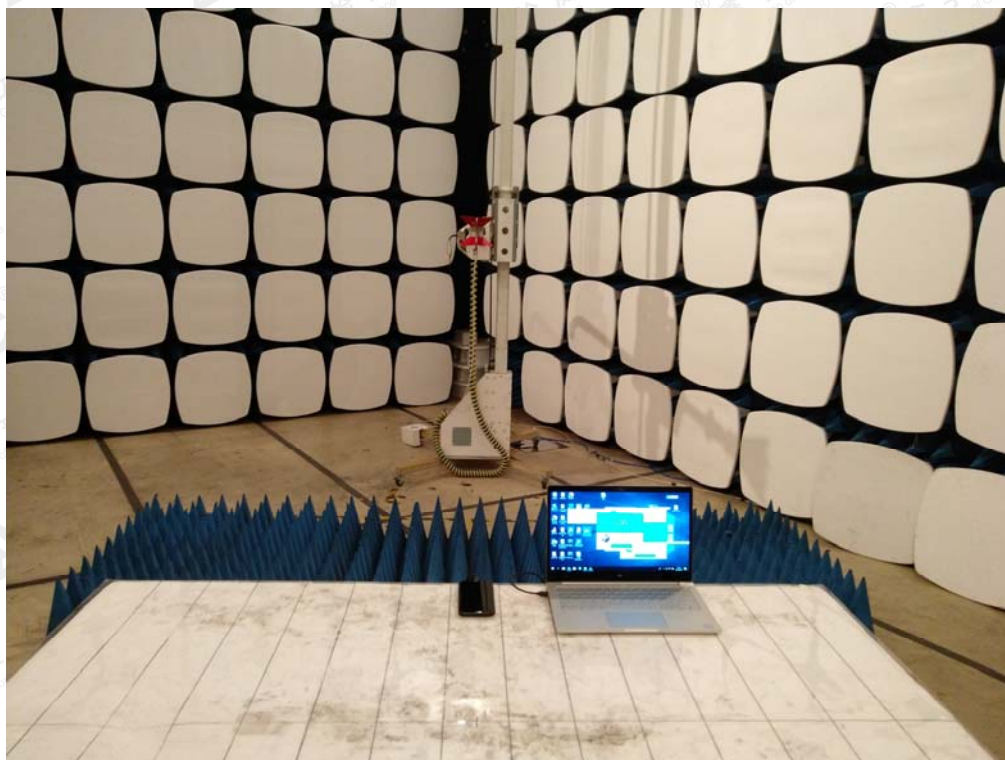


FCC RADIATED EMISSION TEST SETUP



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FCC RADIATED EMISSION TEST SETUP



-----END OF REPORT-----

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