ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C

Product Name: Wireless charger

MODEL No.: XTCG009

Trademark: N/A

FCC ID: 2ASHX-XTCG009

REPORT NO.: ES181225012W01

ISSUE DATE: March 26, 2019

Prepared for

BEL USA,LLC.

12610 NW 115 Avenue, Bldg. 200 Medley, FL 33178, USA

Prepared by

EMTEK (SHENZHEN) CO., LTD.

Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China
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TEST REPORT DESCRIPTION

Applicant	:	BEL USA,LLC. 12610 NW 115 Avenue, Bldg. 200 Medley, FL 33178, USA
Manufacturer	:	JMTEK Technology Co., Limited 14G, Innovation Tech building, Quanzhi Science and Technology innovation Park, Shajin Street, Bao'an District, Shenzhen, China
Trade Mark	:	N/A
EUT	:	Wireless charger
Model No.	:	XTCG009

We hereby certify that:

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15C

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

Date of Test	:	December 25, 2018 to March 22, 2019
Prepared by	:	Yaping Shen Yaping Shen/Editor
Reviewer	:	Joe Xia Joe Xia/Supervisor
Approved & Authorized Signer	:	Lisa Wang/Manager

EMTEK (SHENZHEN) CO., LTD. TESTING

Modified Information

Version	Report No.	Revision Data	Summary
Ver.1.0	ES181225012W01	/	Original Version

1. SUMMARY OF TEST RESULTS

EMISSION		
Description of Test Item	Standard & Limits	Results
Conducted Emission	FCC Part 15, Subpart C- Section 15.207 ANSI C63.10-2013	Pass
Radiated Emission	FCC Part 15, Subpart C- Section 15.209 ANSI C63.10-2013	Pass
20 dB Bandwidth	FCC Part 15, Subpart C- Section 15.215	Pass
Antenna Requirement	FCC Part 15, Subpart C- Section 15.203	Pass (See Notes)
Notes: The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	:	Wireless charger
Model Number	:	XTCG009
Power Supply	:	Input: DC 5V 2A Output: DC 5V 1000mA Max
Operating Frequency	:	112-205KHz
Modulation Technique	:	Induction
Classification	:	Type 3 (Category I Radio Apparatus)
Antenna Type	:	Integral Antenna(Induction coil)
Date of Received	:	December 25, 2018
Date of Test	:	December 25, 2018 to March 22, 2019

2.2. Input / Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	Enclosure	N/E	--	--	None
2	Type-C port	I/O	No	Shielded(1.2m)	1 ports

* Note: For the purposes of the present document, the following symbols apply:
AC AC Power Port
DC DC Power Port
N/E Non-Electrical
I/O Signal Input or Output Port (Not Involved in Process Control)
TP Telecommunication Ports

2.3. Independent Operation Modes

Pertest mode	Description
Mode 1	Standby mode
Mode 2	Mobile phone is charging at 1% battery power
Mode 3	Mobile phone is charging at 50% battery power
Mode 4	Mobile phone is charging at 99% battery power
Note: Only the worst case data is shown in the report.	

2.4. Description of Test Facility

Site Description

EMC Lab. : Accredited by CNAS, 2016.10.24
The certificate is valid until 2022.10.28
The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
The Certificate Registration Number is L2291.

Accredited by TUV Rheinland Shenzhen 2016.5.19
The Laboratory has been assessed according to the requirements ISO/IEC 17025.

Accredited by FCC, August 06, 2018
The certificate is valid until August 07, 2020
Designation Number: CN1204
Test Firm Registration Number: 882943

Accredited by Industry Canada, November 09, 2018
The Conformity Assessment Body Identifier is CN0008.

Accredited by A2LA, July 31, 2017
The Certificate Number is 4321.01.

Name of Firm : EMTEK (SHENZHEN) CO., LTD.

Site Location : Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

2.5. Test Software

Item		Software
Conducted Emission	:	EMTEK(Ver.CON-03A1)-Shenzhen
Radiated Emission	:	EMTEK(Ver.RA-03A1)-Shenzhen

2.6. Description of Support Device

No.	Equipment	Trade name	Model	S/N	Power Cord
1.	Adapter	BULL	GN-U2000	N/A	N/A

2.7. Measurement Uncertainty

Test Item		Uncertainty
Conducted Emission Uncertainty	:	3.16dB(9k~150kHz Conduction 2#) 2.90dB(150k-30MHz Conduction 2#)
Radiated Emission Uncertainty (3m Chamber)	:	3.78dB (30M~1GHz Polarize: H) 4.27dB (30M~1GHz Polarize: V) 4.46dB (1~6GHz)

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Power Line Conducted Emission Measurement

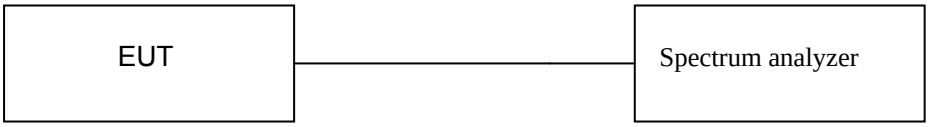
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☑	Test Receiver	Rohde & Schwarz	ESCS30	828985/018	May 20, 2018	1 Year
☑	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100191	May 20, 2018	1 Year
☑	50Ω Coaxial Switch	Anritsu	MP59B	M20531	May 20, 2018	1 Year
☑	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	May 20, 2018	1 Year

3.2. For Radiated Emission Measurement

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☑	EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	May 20, 2018	1 Year
☑	Pre-Amplifier	HP	8447F	2944A07999	May 20, 2018	1 Year
☑	Bilog Antenna	Schwarzbeck	VULB9163	142	May 20, 2018	1 Year
☑	Cable	Schwarzbeck	AK9513	ACRX1	May 20, 2018	1 Year
☑	Cable	Rosenberger	N/A	FP2RX2	May 20, 2018	1 Year
☑	Cable	Schwarzbeck	AK9513	CRPX1	May 20, 2018	1 Year
☑	Cable	Schwarzbeck	AK9513	CRRX2	May 20, 2018	1 Year
☑	EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	May 20, 2018	1 Year
☑	Pre-Amplifier	A.H.	PAM-0126	1415261	May 20, 2018	1 Year
☑	Horn Antenna	Schwarzbeck	BBHA 9120	707	May 20, 2018	1 Year
☑	Cable	H+B	0.5M SF104-26.5	289147/4	May 20, 2018	1 Year
☑	Cable	H+B	3M SF104-26.5	295838/4	May 20, 2018	1 Year
☑	Cable	H+B	6M SF104-26.5	295840/4	May 20, 2018	1 Year

4. 20 DB BANDWIDTH

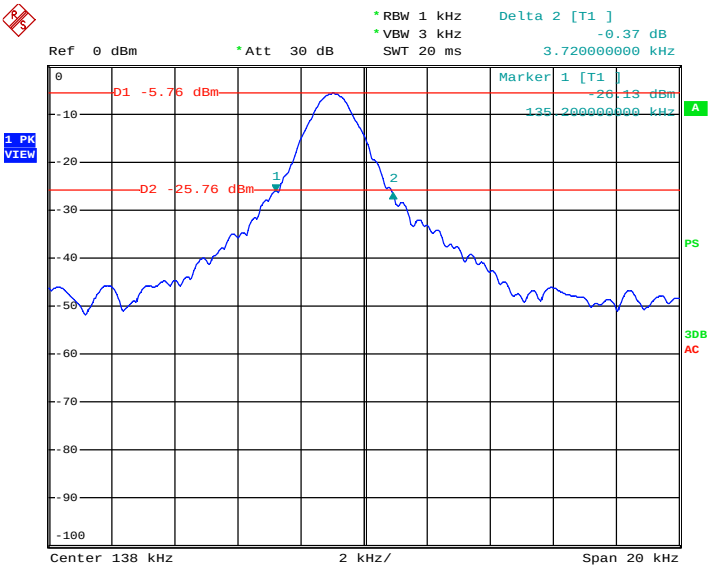
4.1. Block Diagram of Test Setup



4.2. Test set-up

a. Span = approximately 2 to 3 times the 20 dB bandwidth, RBW = greater than 1 % of the 20 dB bandwidth,
VBW = RBW, Sweep = auto, Detector = peak, Trace = max hold.
b. The marker-to-peak function to set the mark to the peak of the emission. Use the marker-delta function to measure 20 dB
down one side of the emission. Reset the function, and move the marker to the other side of the emission, until it is
(as close as possible to) even with the reference marker level.
The marker-delta reading at this point is 20 dB bandwidth of the emission.

4.3. Test Results



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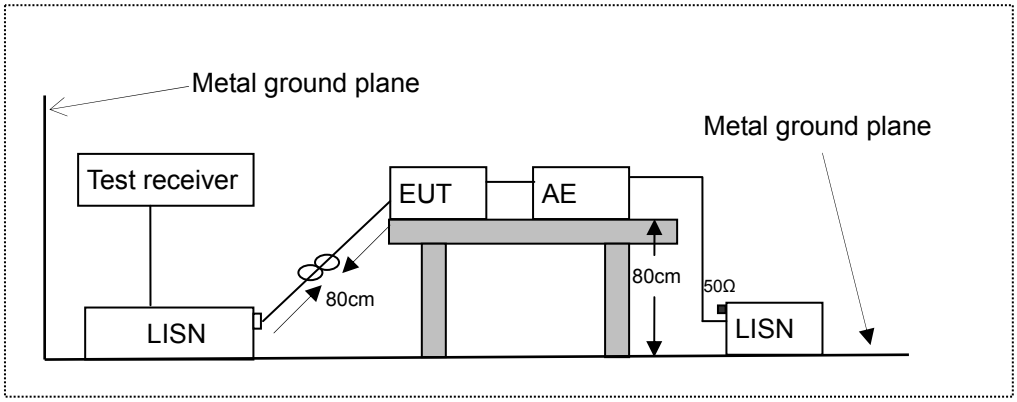
5. POWER LINE CONDUCTED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network
AE: Associated equipment
EUT: Equipment under test

5.2. Limits

FCC Part 15.207

Frequency (MHz)			Limit (dBμV)	
			Quasi-peak Level	Average Level
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50	~	5.00	56.0	46.0
5.00	~	30.00	60.0	50.0
NOTE1-The lower limit shall apply at the transition frequencies. NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.				

5.3. Test Procedure

The EUT was placed on a desk 0.8 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a line impedance stabilization network (LISN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

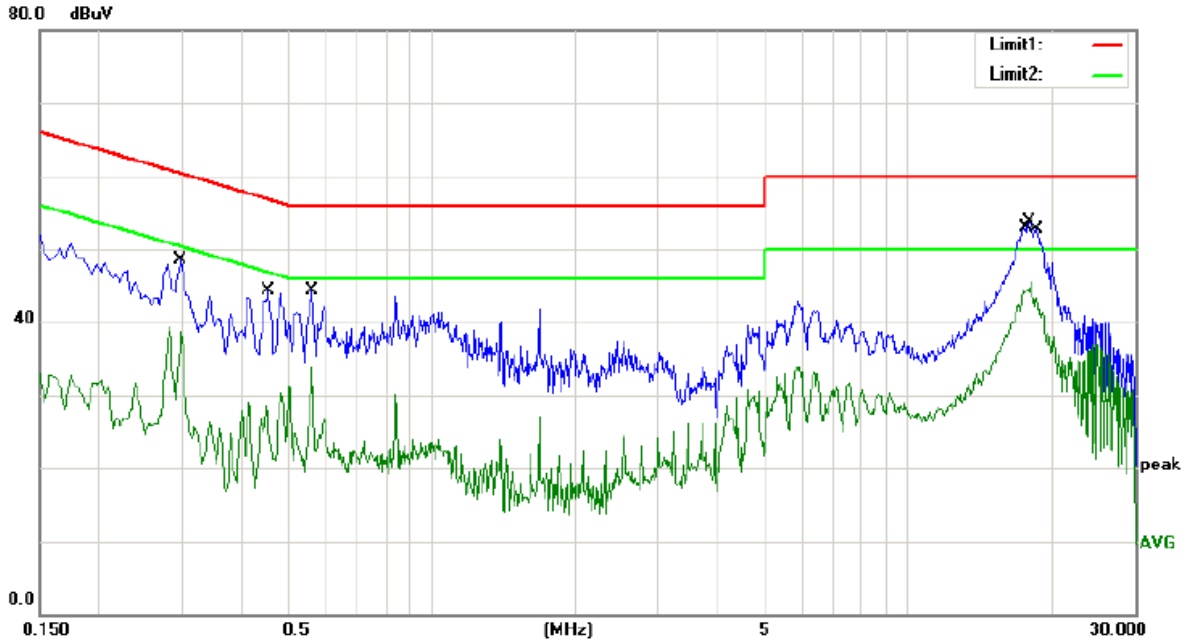
Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

Test results were obtained from the following equation:
Emission Level (dBμV) = LISN Factor (dB) + Cable Loss (dB) + Reading (dBμV)
Margin (dB) = Emission Level (dBμV) - Limit (dBμV)

5.4. Measuring Results

PASS.

Worst Case Operating Mode: Mode 2



Site site #1 Phase: *L1* Temperature: 21

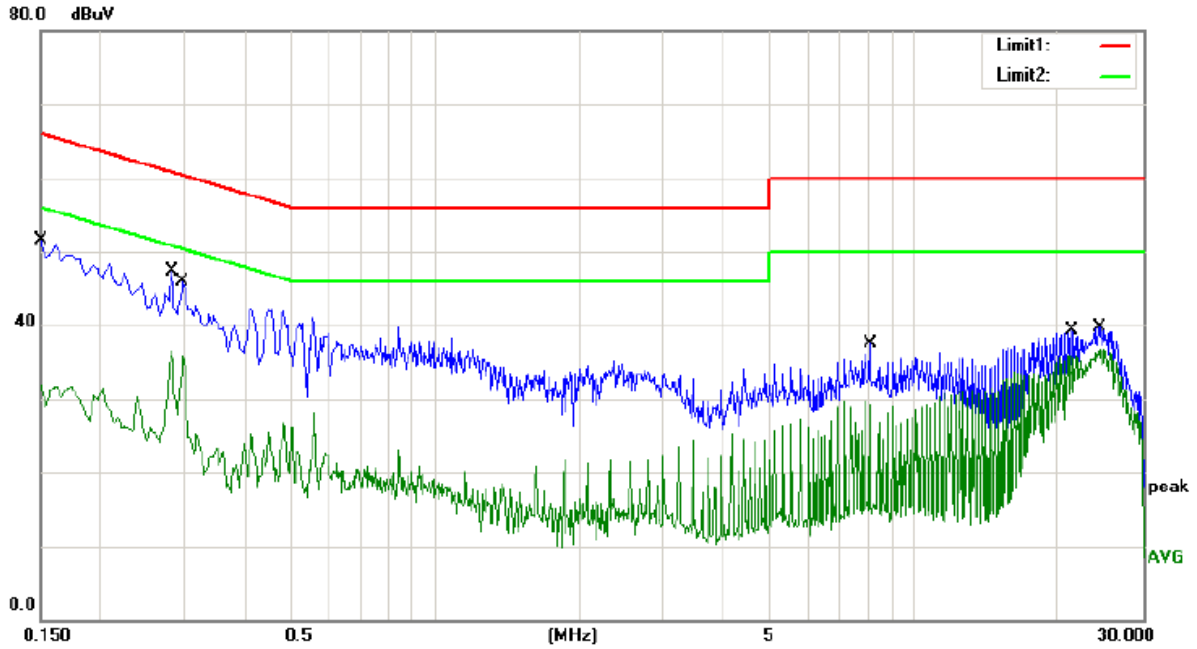
Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %

Mode: Mode 2

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2980	38.30	10.09	48.39	60.30	-11.91	QP	
2		0.2980	28.50	10.09	38.59	50.30	-11.71	AVG	
3		0.4540	34.10	10.07	44.17	56.80	-12.63	QP	
4		0.4540	15.40	10.07	25.47	46.80	-21.33	AVG	
5		0.5620	34.10	10.06	44.16	56.00	-11.84	QP	
6		0.5620	23.80	10.06	33.86	46.00	-12.14	AVG	
7		17.6360	42.10	10.58	52.68	60.00	-7.32	QP	
8	*	17.6360	33.50	10.58	44.08	50.00	-5.92	AVG	
9		17.9880	43.10	10.58	53.68	60.00	-6.32	QP	
10		17.9880	33.50	10.58	44.08	50.00	-5.92	AVG	
11		18.6400	42.10	10.59	52.69	60.00	-7.31	QP	
12		18.6400	32.60	10.59	43.19	50.00	-6.81	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: YYF



Site site #1 Phase: N Temperature: 18

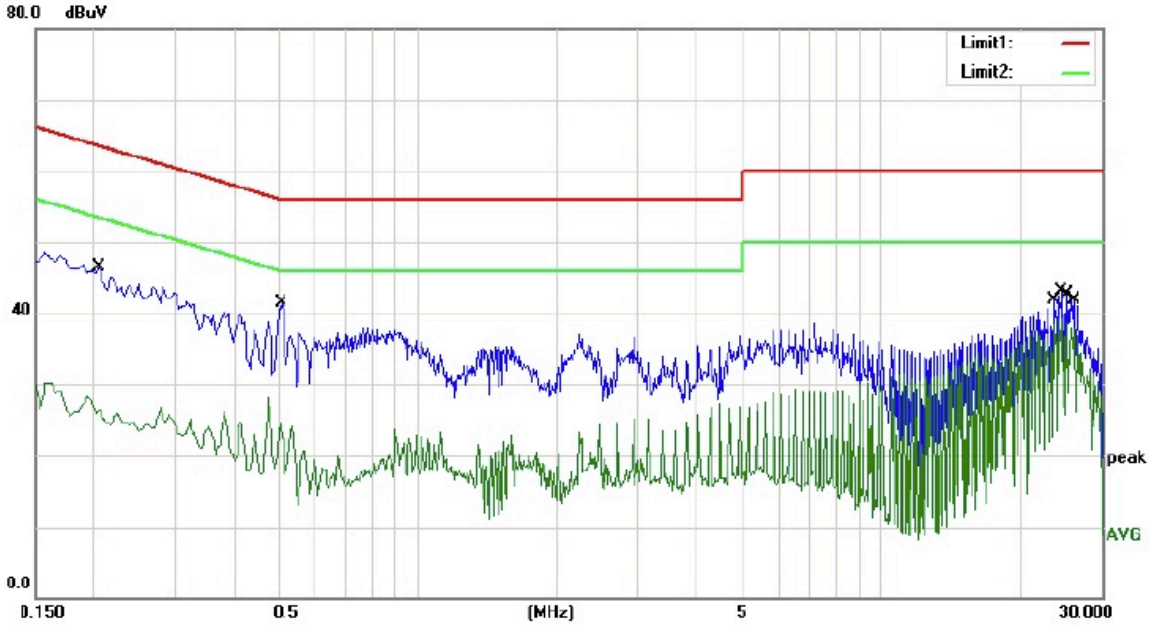
Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 43 %

Mode: Mode 2

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	41.40	10.07	51.47	66.00	-14.53	QP	
2		0.1500	21.80	10.07	31.87	56.00	-24.13	AVG	
3		0.2820	37.10	10.09	47.19	60.76	-13.57	QP	
4		0.2820	26.40	10.09	36.49	50.76	-14.27	AVG	
5		0.2980	35.70	10.09	45.79	60.30	-14.51	QP	
6		0.2980	25.80	10.09	35.89	50.30	-14.41	AVG	
7		8.0880	26.90	10.46	37.36	60.00	-22.64	QP	
8		8.0880	5.20	10.46	15.66	50.00	-34.34	AVG	
9		21.2960	28.50	10.62	39.12	60.00	-20.88	QP	
10		21.2960	25.20	10.62	35.82	50.00	-14.18	AVG	
11		24.4400	29.20	10.53	39.73	60.00	-20.27	QP	
12	*	24.4400	26.10	10.53	36.63	50.00	-13.37	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: YYF



Site site #1 Phase: L Temperature: 21

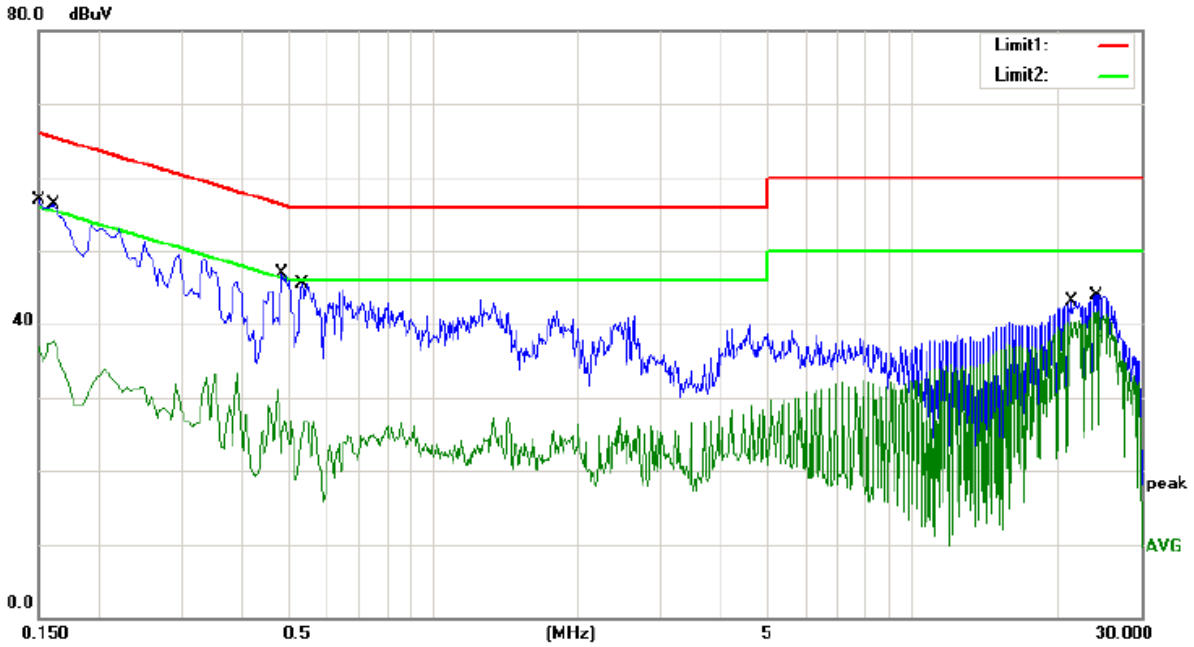
Limit: (CE)FCC PART 15 class B_QP Power: AC 240V/60Hz Humidity: 55 %

Mode: Mode 2

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2060	36.30	10.08	46.38	63.37	-16.99	QP	
2		0.2060	16.20	10.08	26.28	53.37	-27.09	AVG	
3		0.5100	31.30	10.10	41.40	56.00	-14.60	QP	
4		0.5100	12.40	10.10	22.50	46.00	-23.50	AVG	
5		23.5920	31.20	10.56	41.76	60.00	-18.24	QP	
6		23.5920	27.90	10.56	38.46	50.00	-11.54	AVG	
7		24.4880	32.50	10.53	43.03	60.00	-16.97	QP	
8	*	24.4880	28.80	10.53	39.33	50.00	-10.67	AVG	
9		25.1640	32.20	10.51	42.71	60.00	-17.29	QP	
10		25.1640	28.20	10.51	38.71	50.00	-11.29	AVG	
11		26.0600	31.40	10.48	41.88	60.00	-18.12	QP	
12		26.0600	27.60	10.48	38.08	50.00	-11.92	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: YYF



Site site #1 Phase: N Temperature: 21

Limit: (CE)FCC PART 15 class B_QP Power: AC 240V/60Hz Humidity: 55 %

Mode: Mode 2

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	46.80	10.07	56.87	66.00	-9.13	QP	
2		0.1500	26.80	10.07	36.87	56.00	-19.13	AVG	
3		0.1620	46.20	10.08	56.28	65.36	-9.08	QP	
4		0.1620	27.50	10.08	37.58	55.36	-17.78	AVG	
5		0.4860	36.70	10.11	46.81	56.24	-9.43	QP	
6		0.4860	15.30	10.11	25.41	46.24	-20.83	AVG	
7		0.5340	35.40	10.09	45.49	56.00	-10.51	QP	
8		0.5340	15.10	10.09	25.19	46.00	-20.81	AVG	
9		21.4880	32.50	10.62	43.12	60.00	-16.88	QP	
10		21.4880	29.50	10.62	40.12	50.00	-9.88	AVG	
11		24.2600	33.40	10.54	43.94	60.00	-16.06	QP	
12	*	24.2600	30.90	10.54	41.44	50.00	-8.56	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: YYF

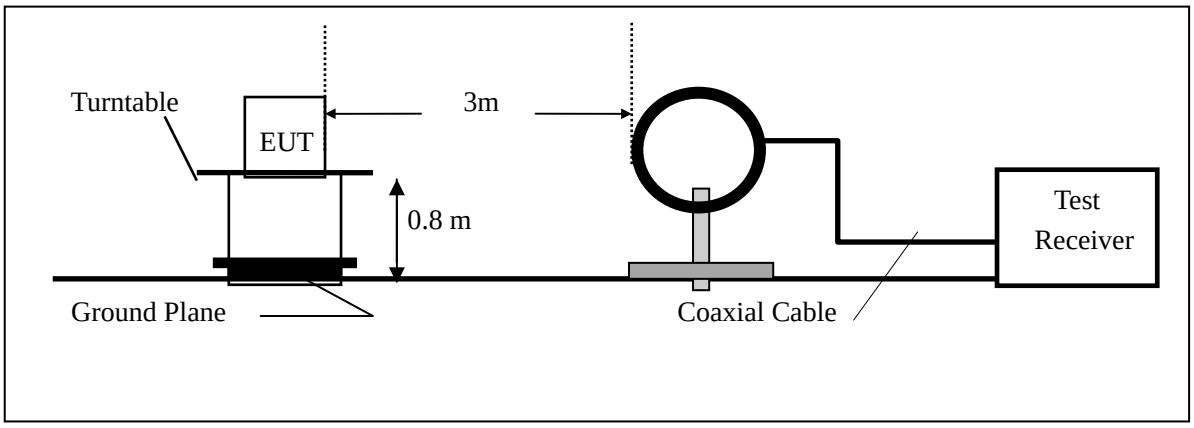
6. RADIATED EMISSION TEST

6.1. Measurement Procedure

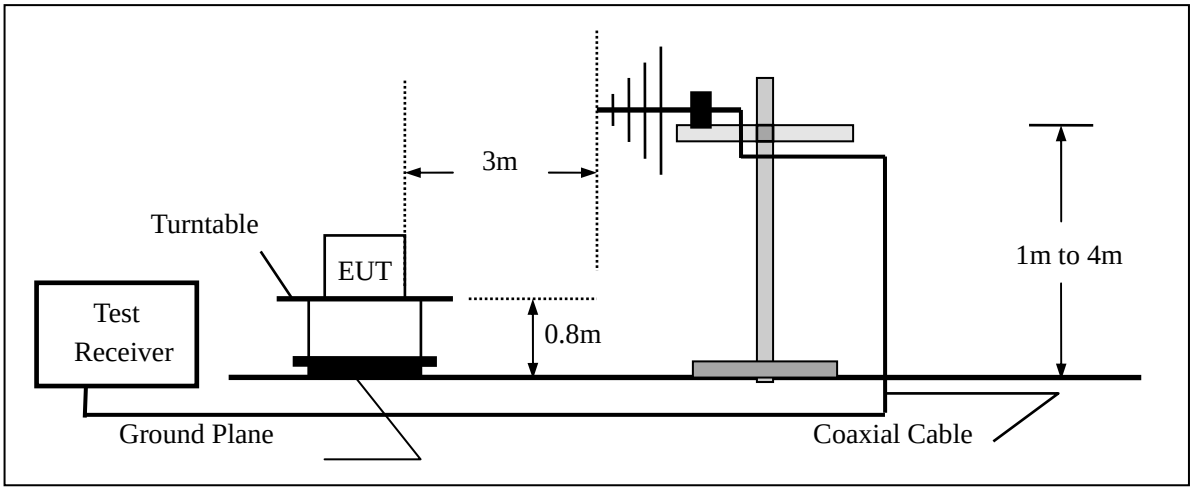
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.
5. Average detector is used for 9–90 KHz, 110–490 KHz and Quasi-Peak detector is used for ther frequency band. The IF bandwidth used for measurement of radiated signal strength was 10 KHz for emission below 30 MHz and 120 KHz for emission from 30 MHz to 1000 MHz.

6.2. Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



6.3. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/20/2018	05/19/2019
Pre-Amplifier	HP	8447D	2944A07999	05/20/2018	05/19/2019
Bilog Antenna	Schwarzbeck	VULB9163	142	05/20/2018	05/19/2019
Loop Antenna	ARA	PLA-1030/B	1029	05/20/2018	05/19/2019
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	05/20/2018	05/19/2019
Horn Antenna	Schwarzbeck	BBHA 9120	D143	05/20/2018	05/19/2019
Cable	Schwarzbeck	AK9513	ACRX1	05/20/2018	05/19/2019
Cable	Rosenberger	N/A	FP2RX2	05/20/2018	05/19/2019
Cable	Schwarzbeck	AK9513	CRPX1	05/20/2018	05/19/2019
Cable	Schwarzbeck	AK9513	CRRX2	05/20/2018	05/19/2019

6.4. Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100* 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500

15.205 Restricted bands of operation

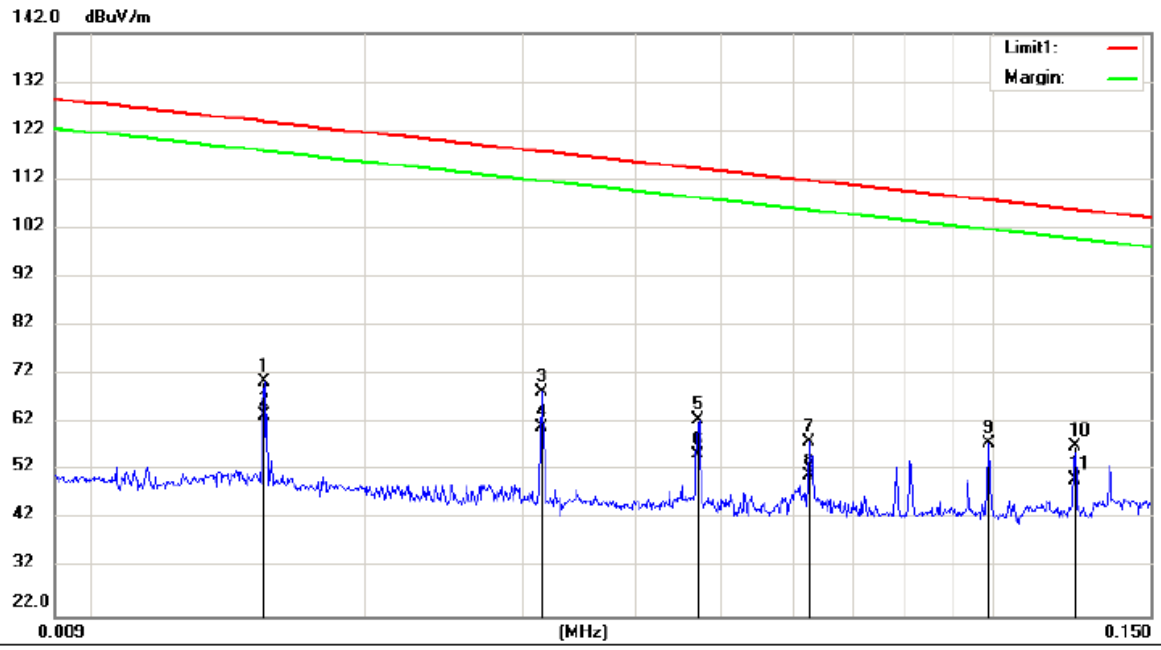
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])

Remark: 1. Emission level in dBuV/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

6.5. Measurement Result

Worst Case Operating Mode: Mode 2

9KHz-30MHz:



Site site #1 Polarization: *Vertical* Temperature: 27 C

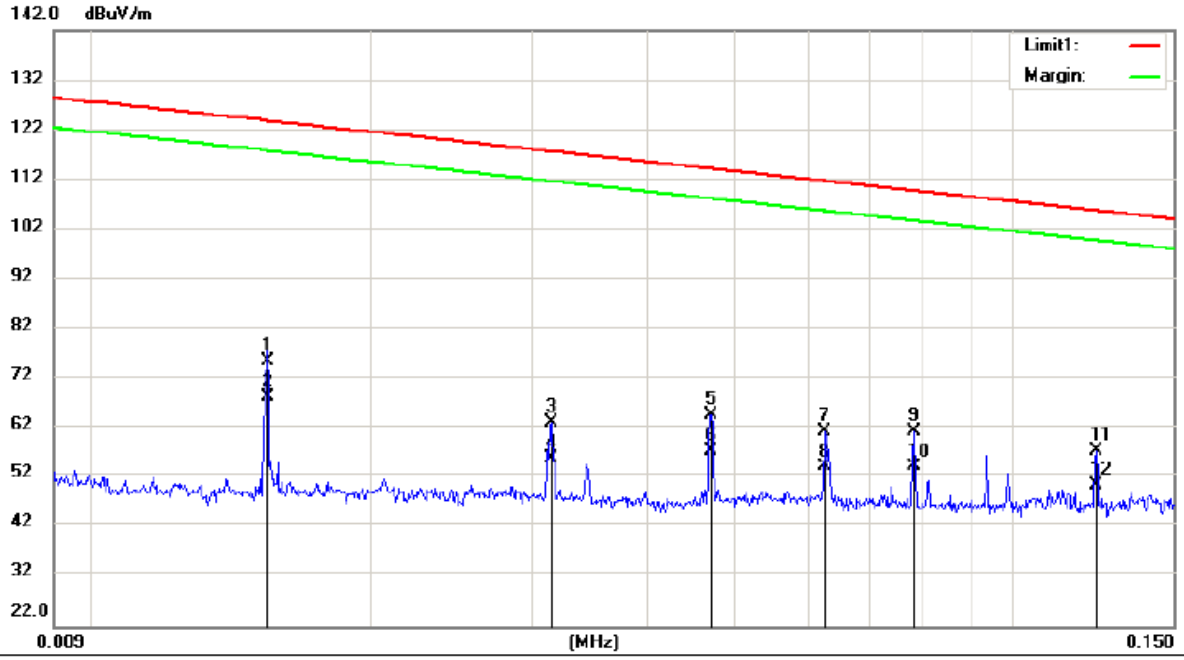
Limit: (RE)FCC PART 15.209(9K-30M) Power: AC 120V/60Hz Humidity: 43 %

Mode:Mode 2

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.0154	49.72	20.74	70.46	123.84	-53.38	peak			
2		0.0154	42.80	20.74	63.54	123.84	-60.30	AVG			
3		0.0313	47.41	20.84	68.25	117.68	-49.43	peak			
4		0.0313	40.29	20.84	61.13	117.68	-56.55	AVG			
5		0.0470	41.41	21.10	62.51	114.15	-51.64	peak			
6		0.0470	34.26	21.10	55.36	114.15	-58.79	AVG			
7		0.0623	37.34	20.76	58.10	111.70	-53.60	peak			
8		0.0623	30.32	20.76	51.08	111.70	-60.62	AVG			
9		0.0990	36.98	20.83	57.81	107.68	-49.87	QP			
10	*	0.1233	36.29	20.85	57.14	105.78	-48.64	peak			
11		0.1233	29.27	20.85	50.12	105.78	-55.66	AVG			

*:Maximum data x:Over limit l:over margin Operator: KK



Site site #1 Polarization: ***Horizontal*** Temperature: 27 C

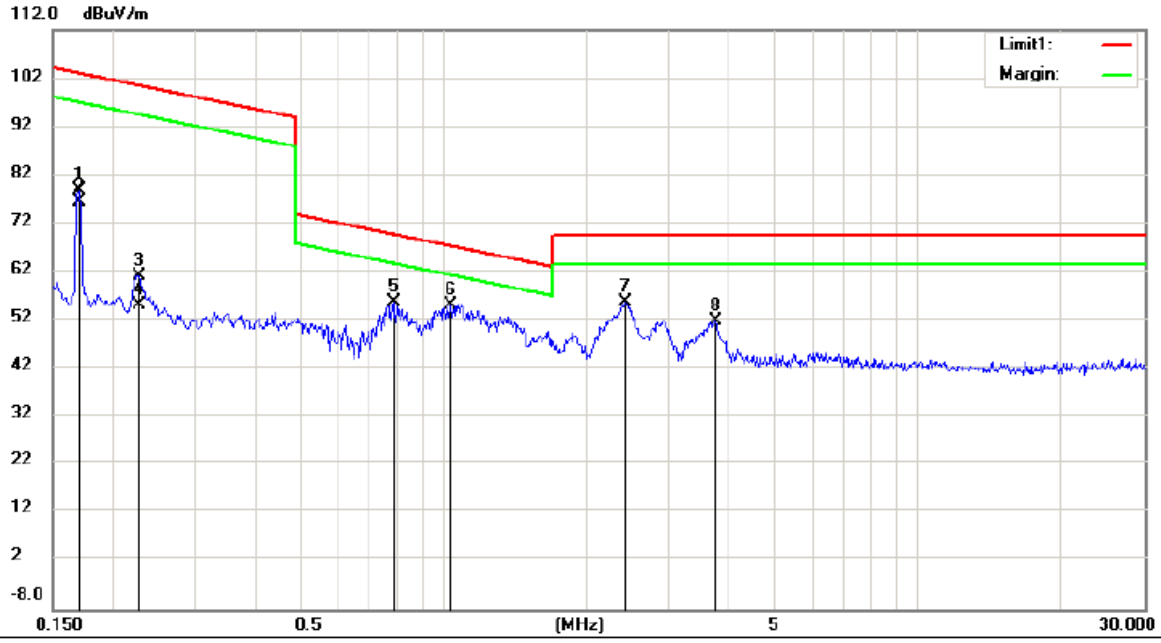
Limit: (RE)FCC PART 15.209(9K-30M) Power: AC 120V/60Hz Humidity: 43 %

Mode:Mode 2

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.0154	54.71	20.74	75.45	123.84	-48.39	peak			
2		0.0154	47.62	20.74	68.36	123.84	-55.48	AVG			
3		0.0313	42.36	20.84	63.20	117.68	-54.48	peak			
4		0.0313	35.31	20.84	56.15	117.68	-61.53	AVG			
5		0.0470	43.67	21.10	64.77	114.15	-49.38	peak			
6		0.0470	36.39	21.10	57.49	114.15	-56.66	AVG			
7		0.0625	40.65	20.75	61.40	111.68	-50.28	peak			
8		0.0625	33.46	20.75	54.21	111.68	-57.47	AVG			
9		0.0782	41.07	20.41	61.48	109.73	-48.25	peak			
10		0.0782	33.94	20.41	54.35	109.73	-55.38	AVG			
11	*	0.1234	36.74	20.85	57.59	105.77	-48.18	peak			
12		0.1234	29.50	20.85	50.35	105.77	-55.42	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK



Site site #1 Polarization: *Vertical* Temperature: 27 C

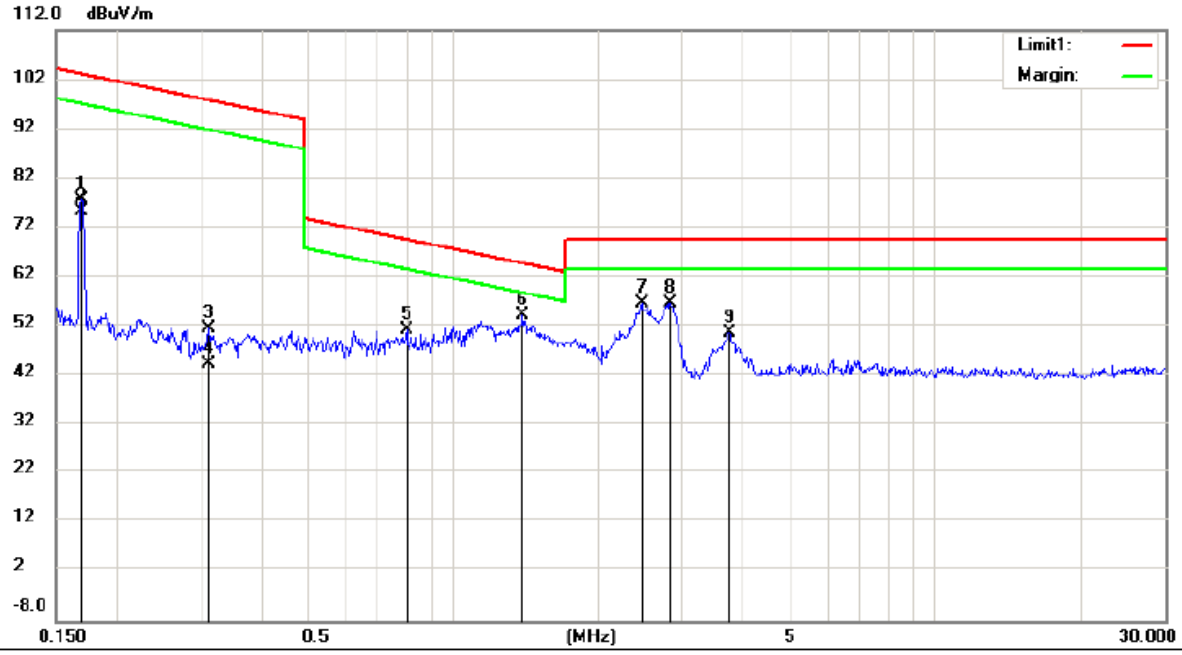
Limit: (RE)FCC PART 15.209(9K-30M) Power: AC 120V/60Hz Humidity: 43 %

Mode:Mode 2

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.1700	57.93	20.89	78.82	102.99	-24.17	peak			
2		0.1700	55.46	20.89	76.35	102.99	-26.64	AVG			
3		0.2280	40.20	21.01	61.21	100.44	-39.23	peak			
4		0.2280	34.11	21.01	55.12	100.44	-45.32	AVG			
5		0.7832	34.65	20.96	55.61	69.74	-14.13	QP			
6	*	1.0374	34.27	20.95	55.22	67.30	-12.08	QP			
7		2.4216	35.17	20.54	55.71	69.50	-13.79	QP			
8		3.7395	31.47	20.39	51.86	69.50	-17.64	QP			

*:Maximum data x:Over limit !:over margin Operator: KK



Site site #1 Polarization: ***Horizontal*** Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M) Power: AC 120V/60Hz Humidity: 43 %

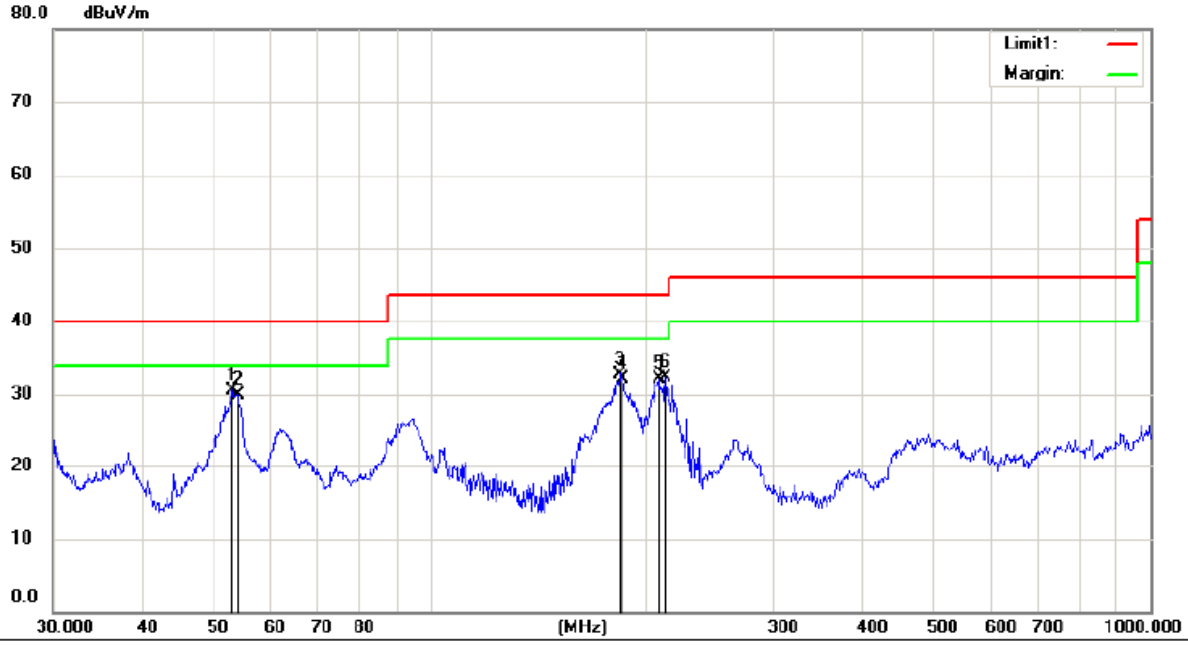
Mode:Mode 2

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.1700	56.63	20.89	77.52	102.99	-25.47	peak			
2		0.1700	54.37	20.89	75.26	102.99	-27.73	AVG			
3		0.3116	30.48	21.05	51.53	97.73	-46.20	peak			
4		0.3116	23.30	21.05	44.35	97.73	-53.38	AVG			
5		0.8002	30.32	20.96	51.28	69.55	-18.27	QP			
6	*	1.3958	33.39	20.84	54.23	64.73	-10.50	QP			
7		2.4605	36.22	20.53	56.75	69.50	-12.75	QP			
8		2.8240	36.22	20.43	56.65	69.50	-12.85	QP			
9		3.7395	30.33	20.39	50.72	69.50	-18.78	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

30MHz-1GHz:



Site site #1 Polarization: *Vertical* Temperature: 18 C

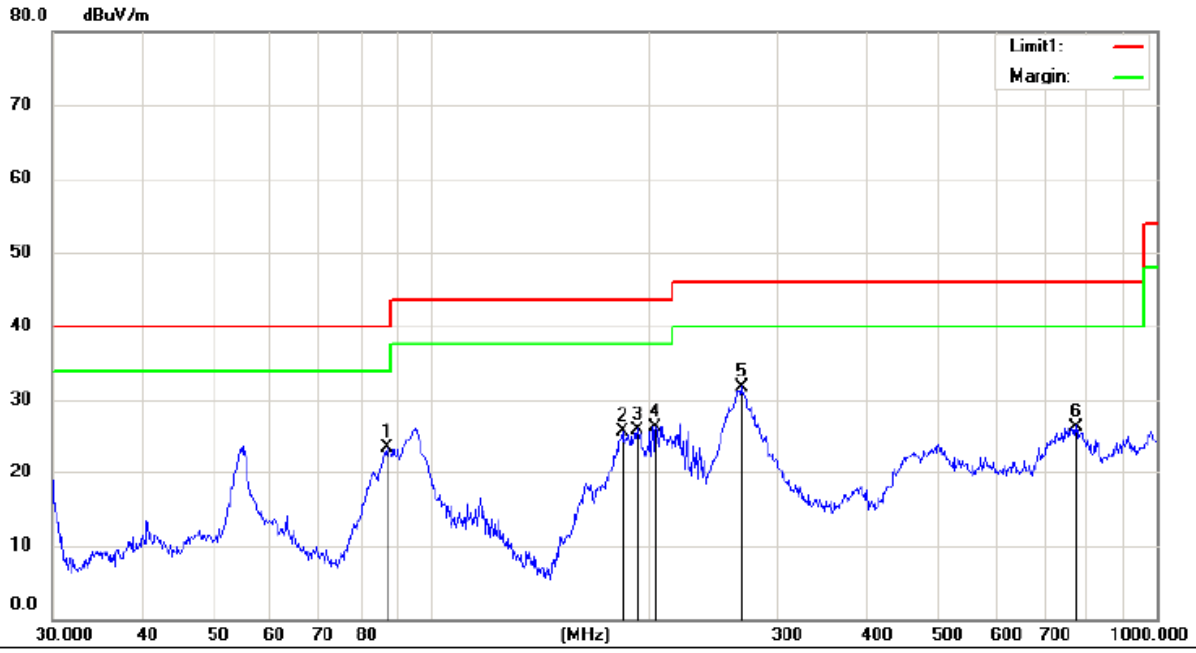
Limit: FCC Part15 Class B 3M Radiation Power: AC 120V/60Hz Humidity: 42 %

Mode:Mode 2

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	53.1313	50.16	-19.56	30.60	40.00	-9.40	QP			
2		54.0711	49.47	-19.57	29.90	40.00	-10.10	QP			
3		183.8440	56.75	-23.95	32.80	43.50	-10.70	QP			
4		185.1380	55.97	-23.77	32.20	43.50	-11.30	QP			
5		207.8501	54.54	-22.44	32.10	43.50	-11.40	QP			
6		212.2695	55.03	-22.63	32.40	43.50	-11.10	QP			

*:Maximum data x:Over limit !:over margin Operator: KK



Site site #1 Polarization: ***Horizontal*** Temperature: 18 C

Limit: FCC Part15 Class B 3M Radiation Power: AC 120V/60Hz Humidity: 42 %

Mode:Mode 2

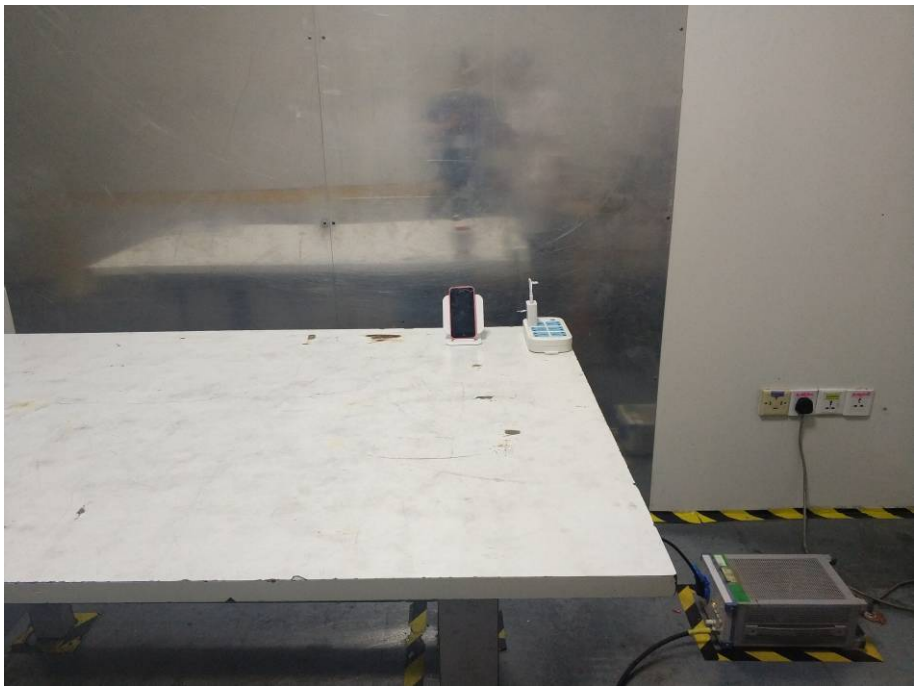
Note:

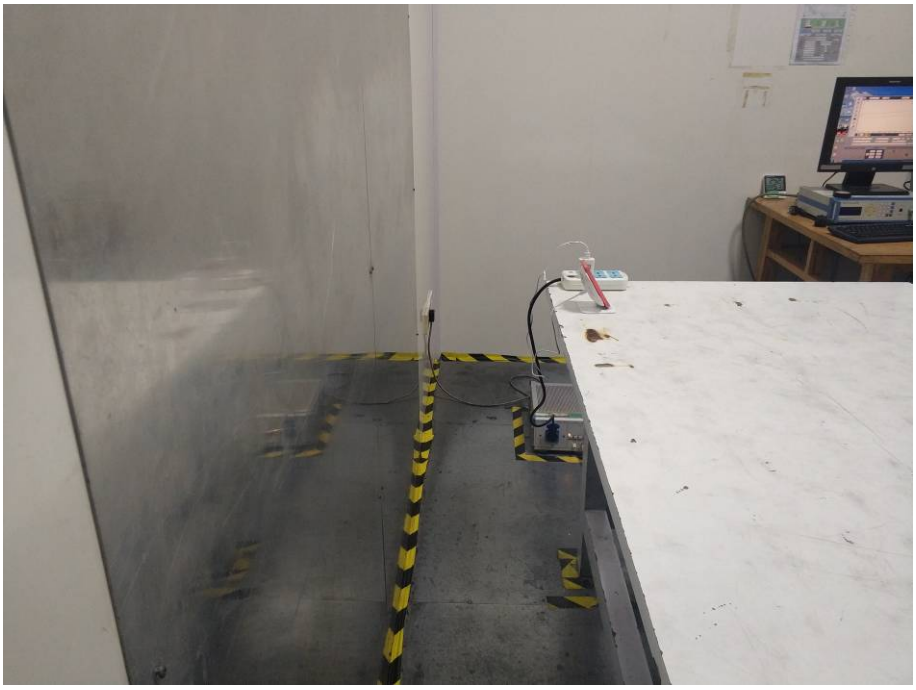
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		86.8068	48.11	-24.61	23.50	40.00	-16.50	QP			
2		183.2005	49.73	-24.03	25.70	43.50	-17.80	QP			
3		192.4186	47.95	-21.95	26.00	43.50	-17.50	QP			
4		203.5228	48.59	-22.29	26.30	43.50	-17.20	QP			
5	*	267.5455	52.05	-20.25	31.80	46.00	-14.20	QP			
6		774.1584	34.57	-8.17	26.40	46.00	-19.60	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

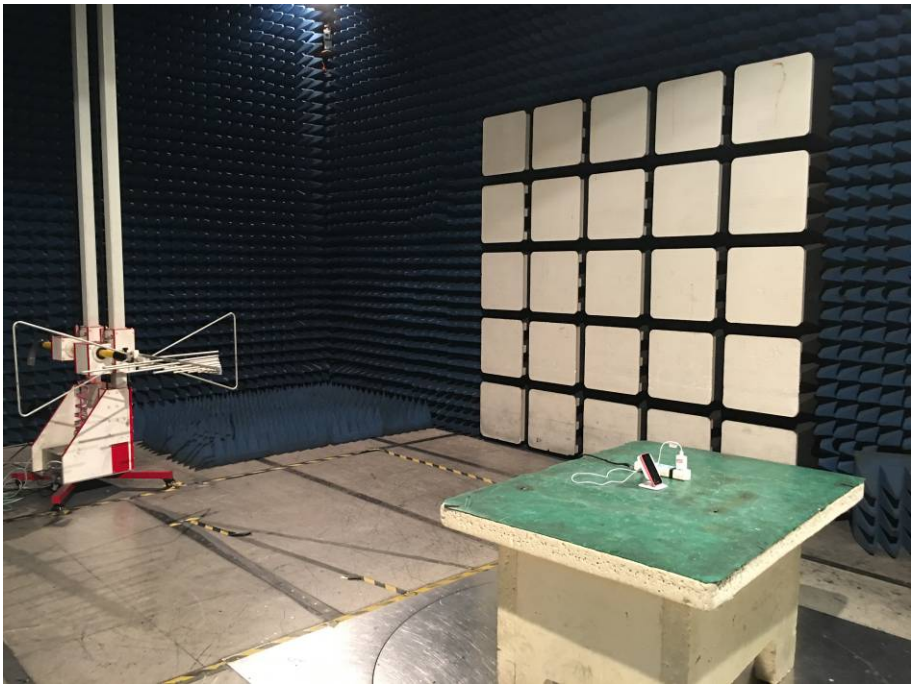
7. PHOTOS OF SETUP

CONDUCTED EMISSION TEST





Radiated Measurement Photos



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