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

Product Name: Wireless charger

MODEL No.: XTCG010

Trademark: N/A

FCC ID: 2ASHX-XTCG010

REPORT NO.: ES181225011E01

ISSUE DATE: March 25, 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
TEL: 86-755-26954280
FAX: 86-755-26954282

TABLE OF CONTENT

Test Report Description **Page**

1. SUMMARY OF TEST RESULTS 5

2. GENERAL INFORMATION 6

2.1. Description of Device (EUT) 6
2.2. Input / Output Ports 6
2.3. Independent Operation Modes 7
2.4. Description of Test Facility 7
2.5. Test Software 7
2.6. Description of Support Device 8
2.7. Measurement Uncertainty 8

3. MEASURING DEVICE AND TEST EQUIPMENT 9

3.1. For Power Line Conducted Emission Measurement 9
3.2. For Radiated Emission Measurement 9

4. 20 DB BANDWIDTH 10

4.1. Block Diagram of Test Setup 10
4.2. Test set-up 10
4.3. Test Results 10

5. POWER LINE CONDUCTED EMISSION MEASUREMENT 11

5.1. Block Diagram of Test Setup 11
5.2. Limits 11
5.3. Test Procedure 11
5.4. Measuring Results 12

6. RADIATED EMISSION TEST 17

6.1. Measurement Procedure 17
6.2. Test SET-UP (Block Diagram of Configuration) 17
6.3. Measurement Equipment Used 18
6.4. Radiated Emission Limit 18
6.5. Measurement Result 20

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.	:	XTCG010

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/Editor
Reviewer	:	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	ES181225011E01	/	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	:	XTCG010
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

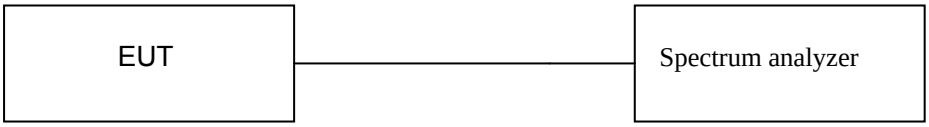
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☑	Test Receiver	Rohde & Schwarz	ESCS30	828985/018	May 20, 2018	1 Year
☑	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100191	May 20, 2018	1 Year
☑	50Ω Coaxial Switch	Anritsu	MP59B	M20531	May 20, 2018	1 Year
☑	Pulse Limiter	Rohde & Schwarz	ESH3-Z2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

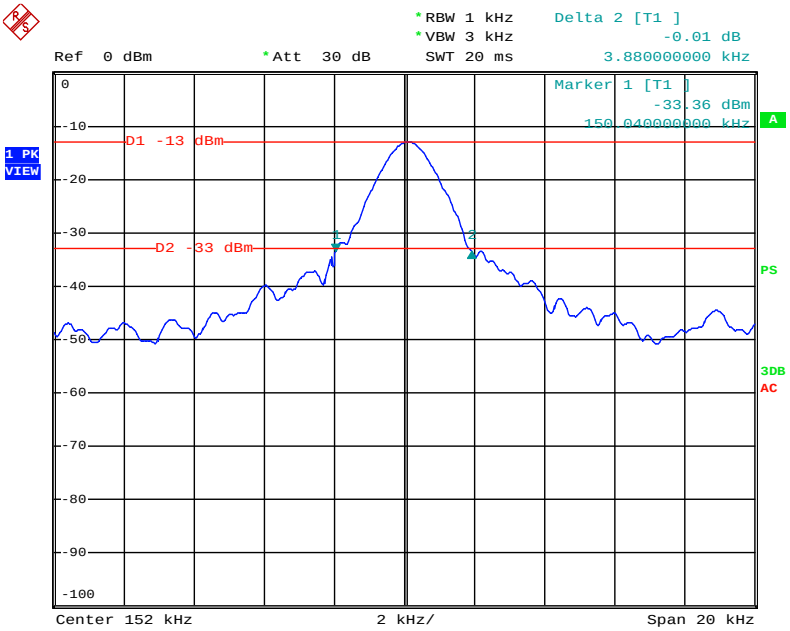
4.1. Block Diagram of Test Setup



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.

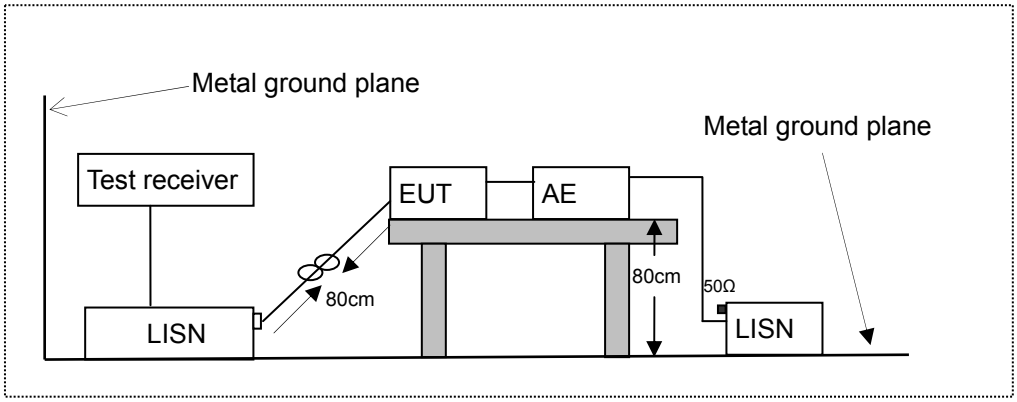
4.3. Test Results



Date: 19.MAR.2019 18:09:23

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.

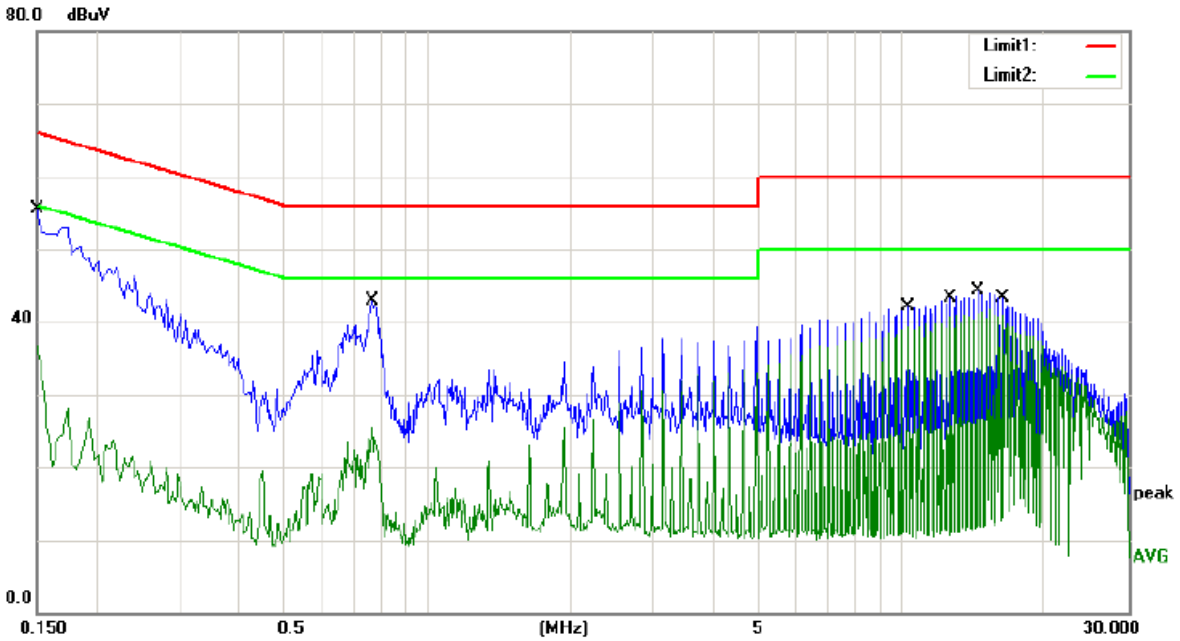
Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

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

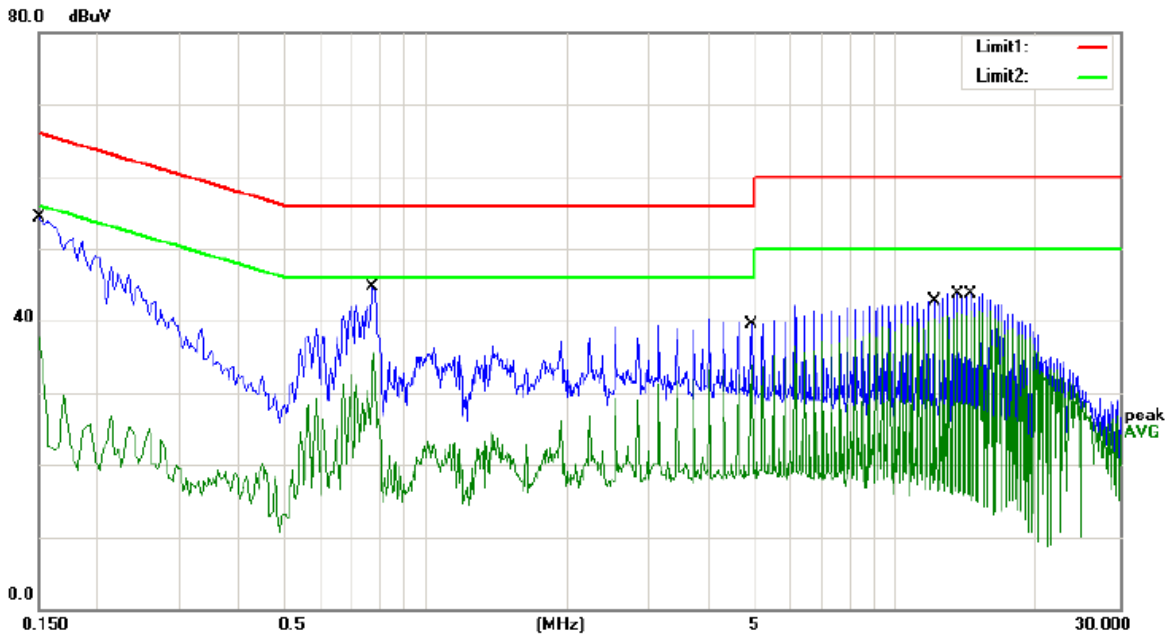
Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %

Mode: Mode 2

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	45.30	10.10	55.40	66.00	-10.60	QP	
2		0.1500	26.50	10.10	36.60	56.00	-19.40	AVG	
3		0.7660	32.90	10.03	42.93	56.00	-13.07	QP	
4		0.7660	15.50	10.03	25.53	46.00	-20.47	AVG	
5		10.3040	31.60	10.48	42.08	60.00	-17.92	QP	
6		10.3040	28.70	10.48	39.18	50.00	-10.82	AVG	
7		12.6920	32.70	10.51	43.21	60.00	-16.79	QP	
8		12.6920	30.20	10.51	40.71	50.00	-9.29	AVG	
9		14.4840	33.60	10.54	44.14	60.00	-15.86	QP	
10	*	14.4840	30.60	10.54	41.14	50.00	-8.86	AVG	
11		16.2760	32.80	10.56	43.36	60.00	-16.64	QP	
12		16.2760	30.20	10.56	40.76	50.00	-9.24	AVG	

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



Site site #1 Phase: N Temperature: 21

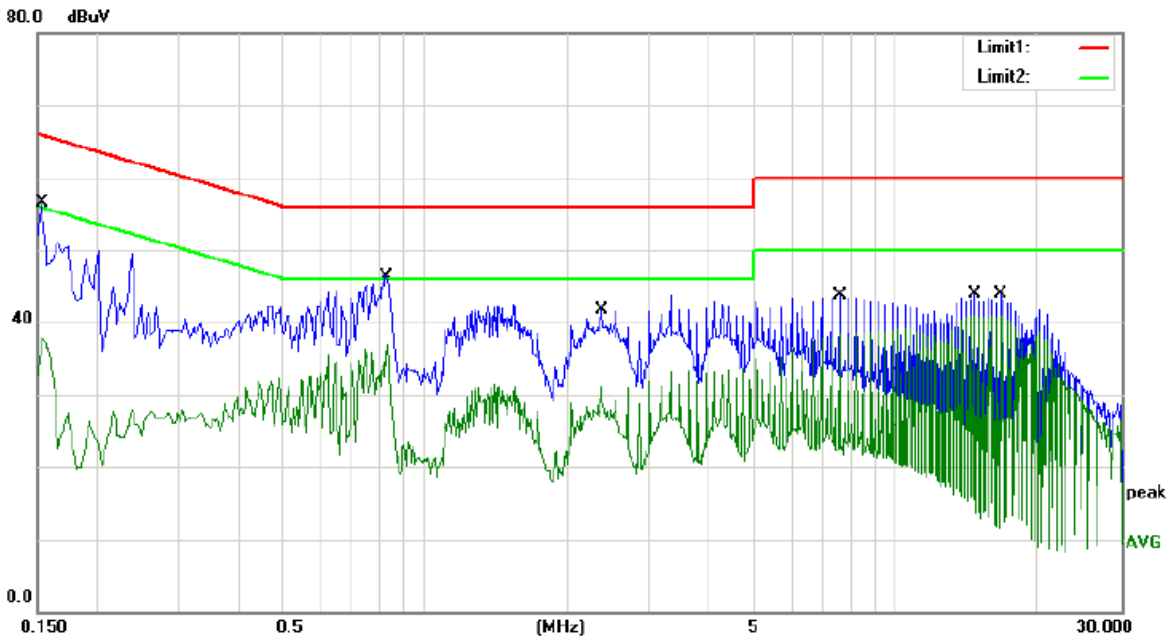
Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %

Mode: Mode 2

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	44.10	10.07	54.17	66.00	-11.83	QP	
2		0.1500	27.50	10.07	37.57	56.00	-18.43	AVG	
3		0.7740	34.60	9.97	44.57	56.00	-11.43	QP	
4		0.7740	25.50	9.97	35.47	46.00	-10.53	AVG	
5		4.9260	29.20	10.29	39.49	56.00	-16.51	QP	
6		4.9260	23.50	10.29	33.79	46.00	-12.21	AVG	
7		12.0920	32.10	10.58	42.68	60.00	-17.32	QP	
8		12.0920	29.70	10.58	40.28	50.00	-9.72	AVG	
9		13.5840	33.10	10.60	43.70	60.00	-16.30	QP	
10		13.5840	30.60	10.60	41.20	50.00	-8.80	AVG	
11		14.4800	33.10	10.60	43.70	60.00	-16.30	QP	
12	*	14.4800	30.70	10.60	41.30	50.00	-8.70	AVG	

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



Site site #1 Phase: N Temperature: 21

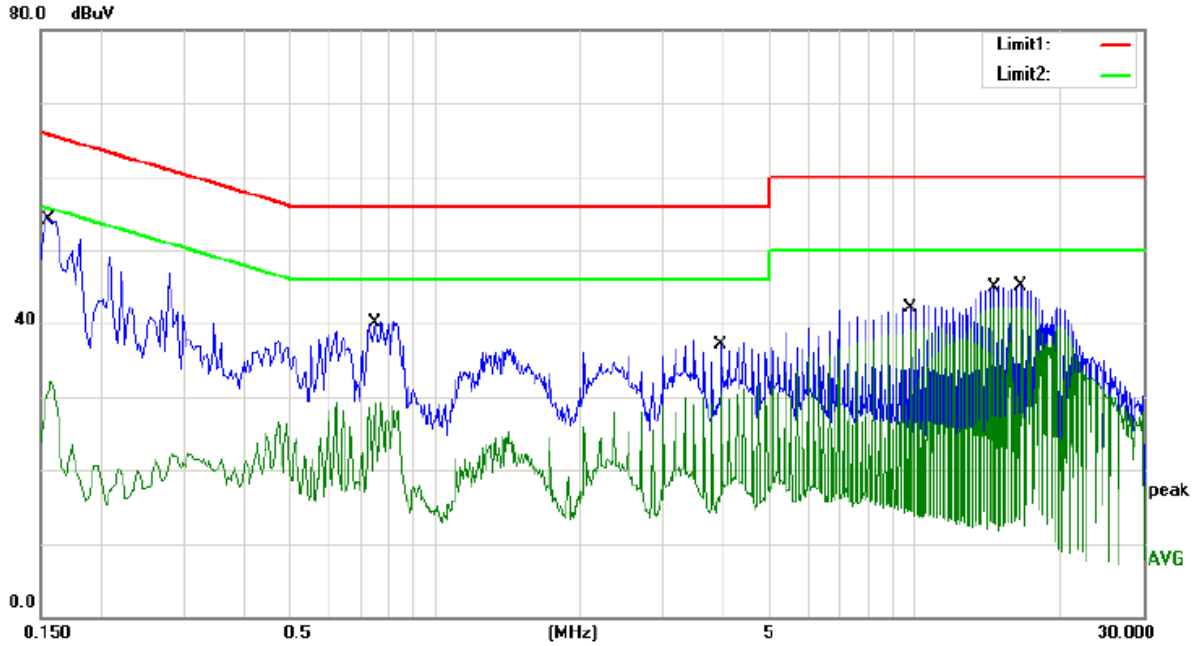
Limit: (CE)FCC PART 15 class B_QP Power: AC 240V/60Hz Humidity: 55 %

Mode: Mode 2

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1540	46.50	10.08	56.58	65.78	-9.20	QP	
2		0.1540	27.80	10.08	37.88	55.78	-17.90	AVG	
3		0.8300	36.30	9.95	46.25	56.00	-9.75	QP	
4	*	0.8300	26.90	9.95	36.85	46.00	-9.15	AVG	
5		2.3700	31.70	9.97	41.67	56.00	-14.33	QP	
6		2.3700	21.00	9.97	30.97	46.00	-15.03	AVG	
7		7.5840	33.20	10.43	43.63	60.00	-16.37	QP	
8		7.5840	28.10	10.43	38.53	50.00	-11.47	AVG	
9		14.6960	33.20	10.61	43.81	60.00	-16.19	QP	
10		14.6960	30.10	10.61	40.71	50.00	-9.29	AVG	
11		16.5920	33.20	10.63	43.83	60.00	-16.17	QP	
12		16.5920	30.20	10.63	40.83	50.00	-9.17	AVG	

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



Site site #1 Phase: *L1* 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		0.1580	43.70	10.10	53.80	65.57	-11.77	QP	
2		0.1580	22.00	10.10	32.10	55.57	-23.47	AVG	
3		0.7500	30.10	10.03	40.13	56.00	-15.87	QP	
4		0.7500	19.30	10.03	29.33	46.00	-16.67	AVG	
5		3.9500	26.80	10.27	37.07	56.00	-18.93	QP	
6		3.9500	20.00	10.27	30.27	46.00	-15.73	AVG	
7		9.8000	31.60	10.47	42.07	60.00	-17.93	QP	
8		9.8000	28.60	10.47	39.07	50.00	-10.93	AVG	
9		14.6960	34.40	10.54	44.94	60.00	-15.06	QP	
10		14.6960	31.60	10.54	42.14	50.00	-7.86	AVG	
11		16.5920	34.40	10.57	44.97	60.00	-15.03	QP	
12	*	16.5920	31.60	10.57	42.17	50.00	-7.83	AVG	

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

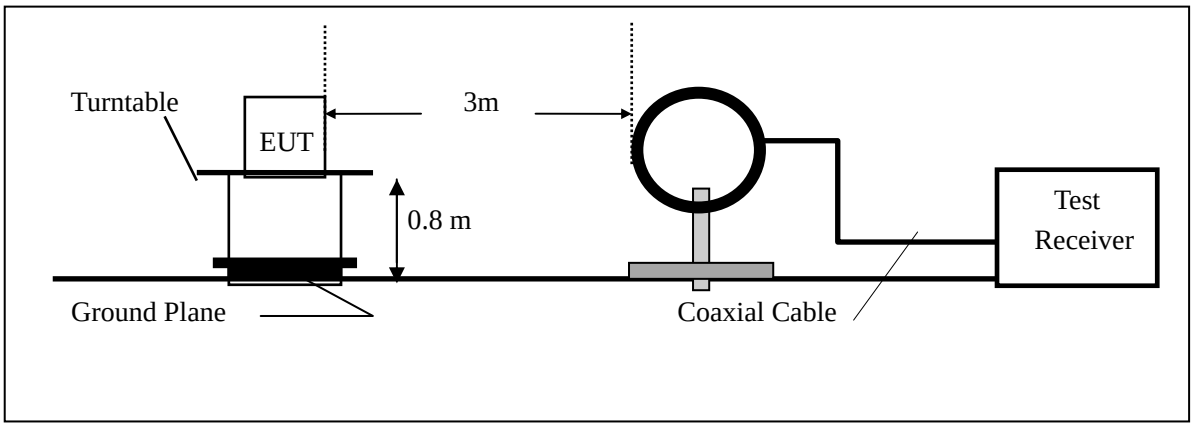
6. RADIATED EMISSION TEST

6.1. Measurement Procedure

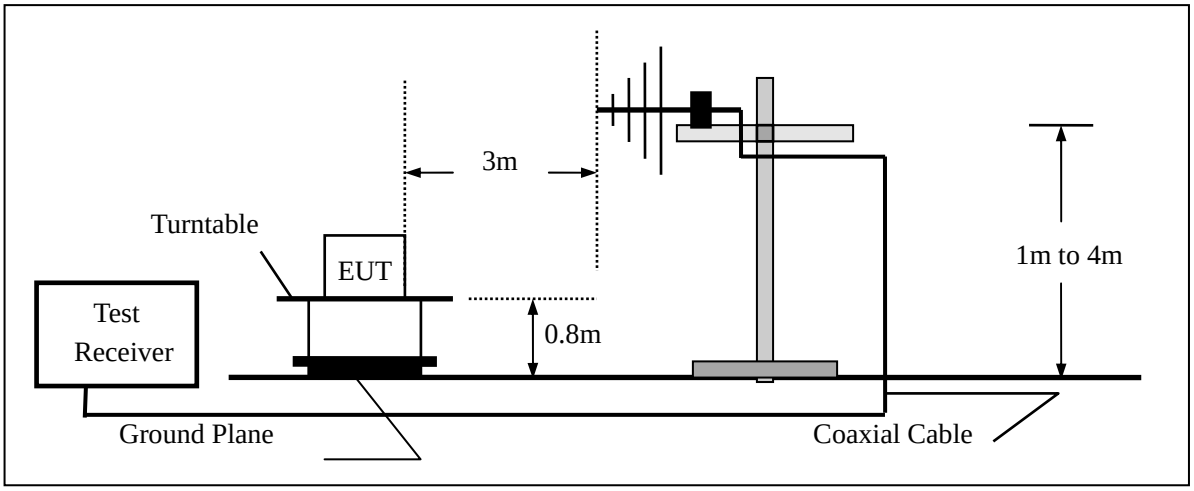
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above 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

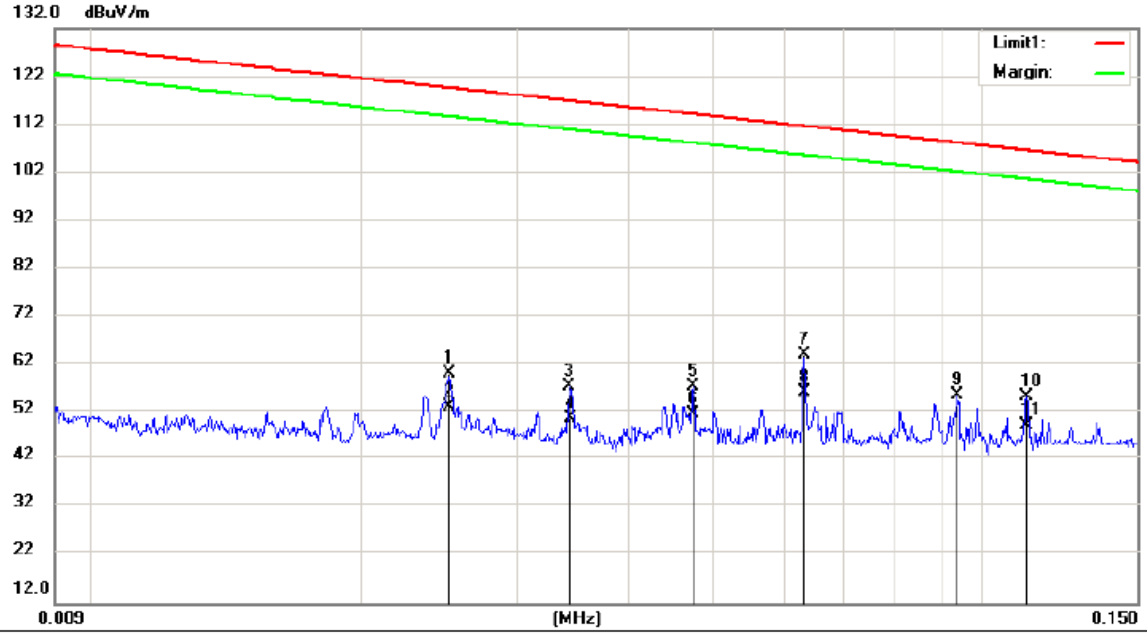
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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: *Horizontal* Temperature: 27 C

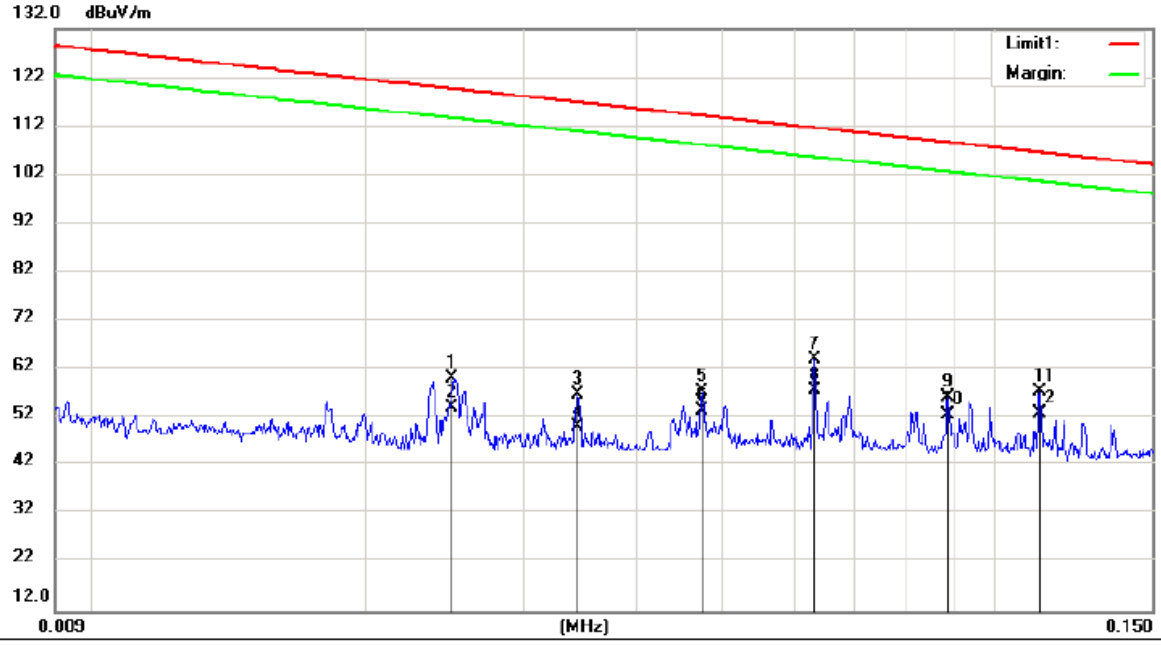
Limit: (RE)FCC PART 15.209(9K-30M) Power: AC 120V/60Hz Humidity: 43 %

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		0.0251	39.41	20.73	60.14	119.60	-59.46	peak			
2		0.0251	32.47	20.73	53.20	119.60	-66.40	AVG			
3		0.0342	36.54	20.89	57.43	116.91	-59.48	peak			
4		0.0343	29.81	20.89	50.70	116.89	-66.19	AVG			
5		0.0473	36.25	21.10	57.35	114.10	-56.75	peak			
6		0.0473	30.80	21.10	51.90	114.10	-62.20	AVG			
7	*	0.0630	43.18	20.73	63.91	111.61	-47.70	peak			
8		0.0630	35.57	20.73	56.30	111.61	-55.31	AVG			
9		0.0940	34.78	20.73	55.51	108.13	-52.62	QP			
10		0.1125	34.42	20.85	55.27	106.57	-51.30	peak			
11		0.1125	28.35	20.85	49.20	106.57	-57.37	AVG			

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



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

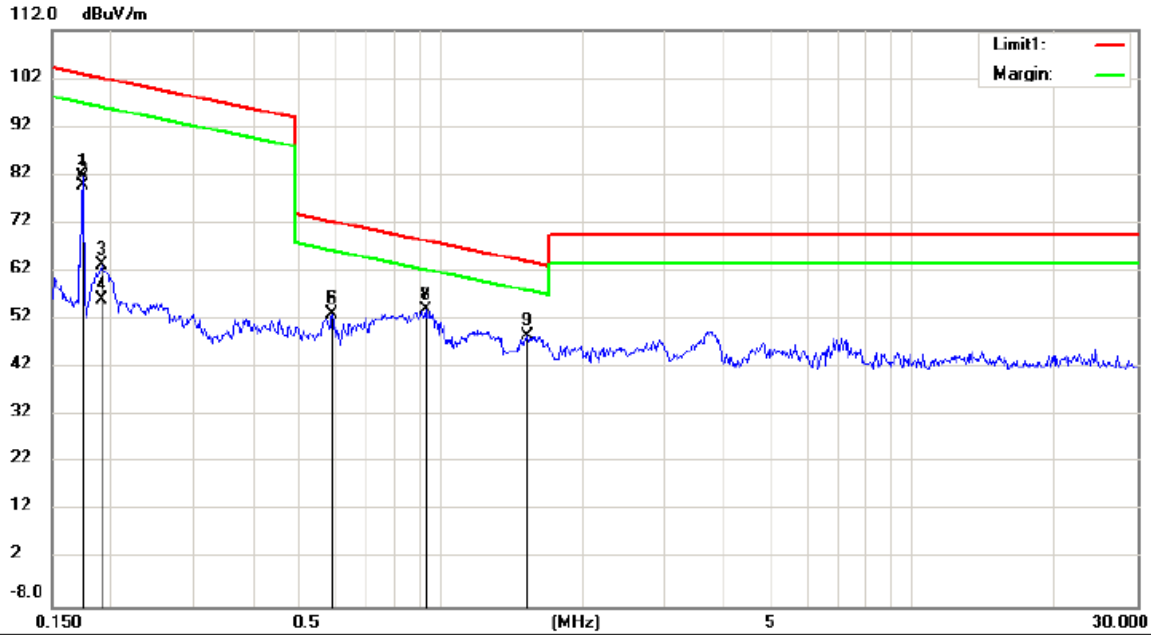
Limit: (RE)FCC PART 15.209(9K-30M) Power: AC 120V/60Hz Humidity: 43 %

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		0.0250	39.29	20.73	60.02	119.63	-59.61	peak			
2		0.0250	33.57	20.73	54.30	119.63	-65.33	AVG			
3		0.0343	36.08	20.89	56.97	116.89	-59.92	peak			
4		0.0343	29.21	20.89	50.10	116.89	-66.79	AVG			
5		0.0473	36.25	21.10	57.35	114.10	-56.75	peak			
6		0.0473	32.50	21.10	53.60	114.10	-60.50	AVG			
7	*	0.0630	43.26	20.73	63.99	111.61	-47.62	peak			
8		0.0630	37.17	20.73	57.90	111.61	-53.71	AVG			
9		0.0888	35.50	20.63	56.13	108.63	-52.50	peak			
10		0.0888	32.17	20.63	52.80	108.63	-55.83	AVG			
11		0.1125	36.46	20.85	57.31	106.57	-49.26	peak			
12		0.1125	32.25	20.85	53.10	106.57	-53.47	AVG			

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



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

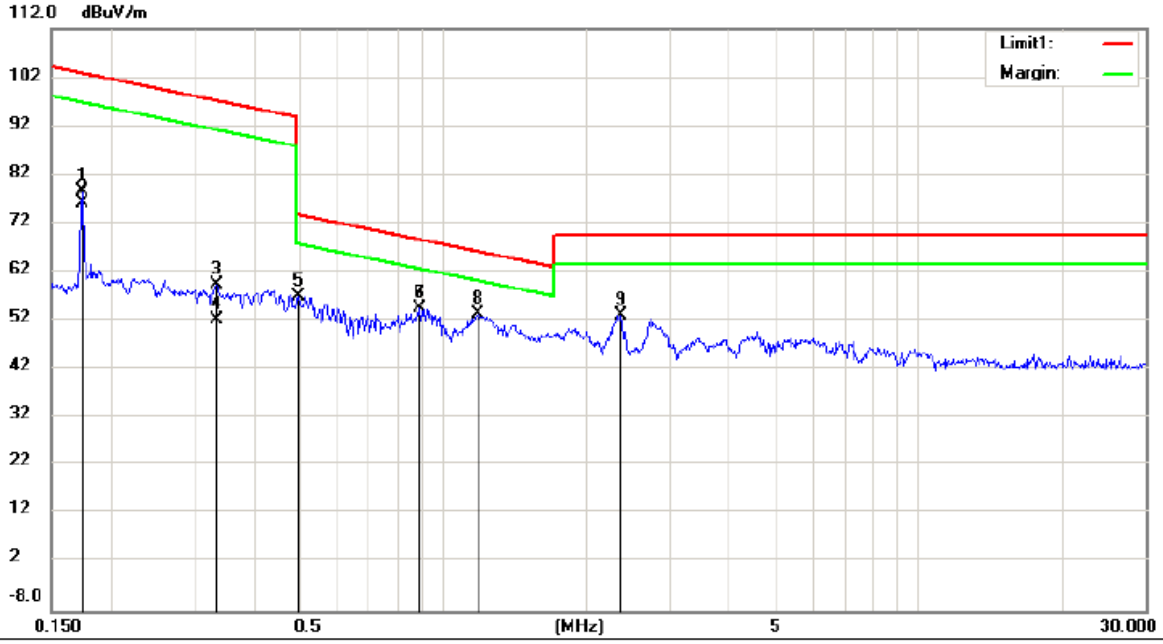
Limit: (RE)FCC PART 15.209(9K-30M) Power: AC 120V/60Hz Humidity: 43 %

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		0.1750	60.66	20.90	81.56	102.74	-21.18	peak			
2		0.1750	58.90	20.90	79.80	102.74	-22.94	AVG			
3		0.1912	42.27	20.93	63.20	101.97	-38.77	peak			
4		0.1912	35.23	20.93	56.16	101.97	-45.81	AVG			
5		0.5885	31.98	21.02	53.00	72.21	-19.21	QP			
6		0.5885	31.98	21.02	53.00	72.21	-19.21	QP			
7	*	0.9282	32.96	20.96	53.92	68.27	-14.35	QP			
8	*	0.9282	32.96	20.96	53.92	68.27	-14.35	QP			
9		1.5273	27.68	20.81	48.49	63.95	-15.46	QP			

*: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 %

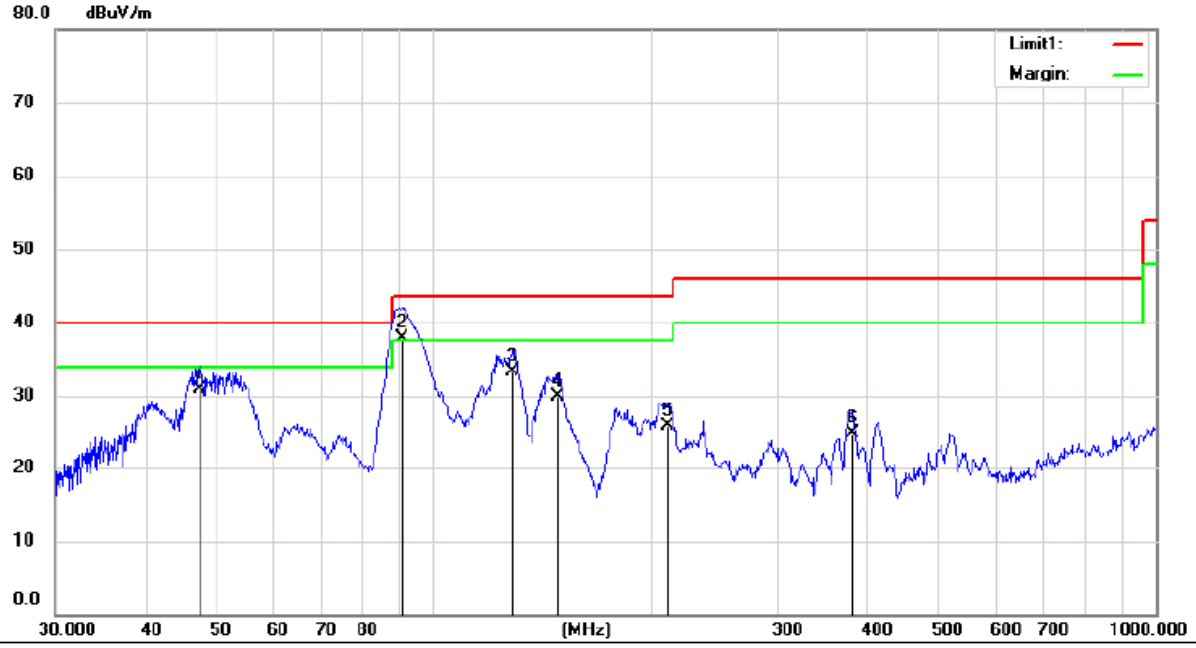
Mode:Mode 2

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		0.1750	57.70	20.90	78.60	102.74	-24.14	peak			
2		0.1750	55.40	20.90	76.30	102.74	-26.44	AVG			
3		0.3336	38.23	21.05	59.28	97.14	-37.86	peak			
4		0.3336	31.12	21.05	52.17	97.14	-44.97	AVG			
5		0.4964	35.77	21.05	56.82	73.69	-16.87	QP			
6		0.8941	33.73	20.96	54.69	68.59	-13.90	QP			
7		0.8941	33.73	20.96	54.69	68.59	-13.90	QP			
8	*	1.1840	32.44	20.90	53.34	66.16	-12.82	QP			
9		2.3710	32.59	20.56	53.15	69.50	-16.35	QP			

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

30MHz-1GHz:



Site site #1 Polarization: *Vertical* Temperature: 22 C

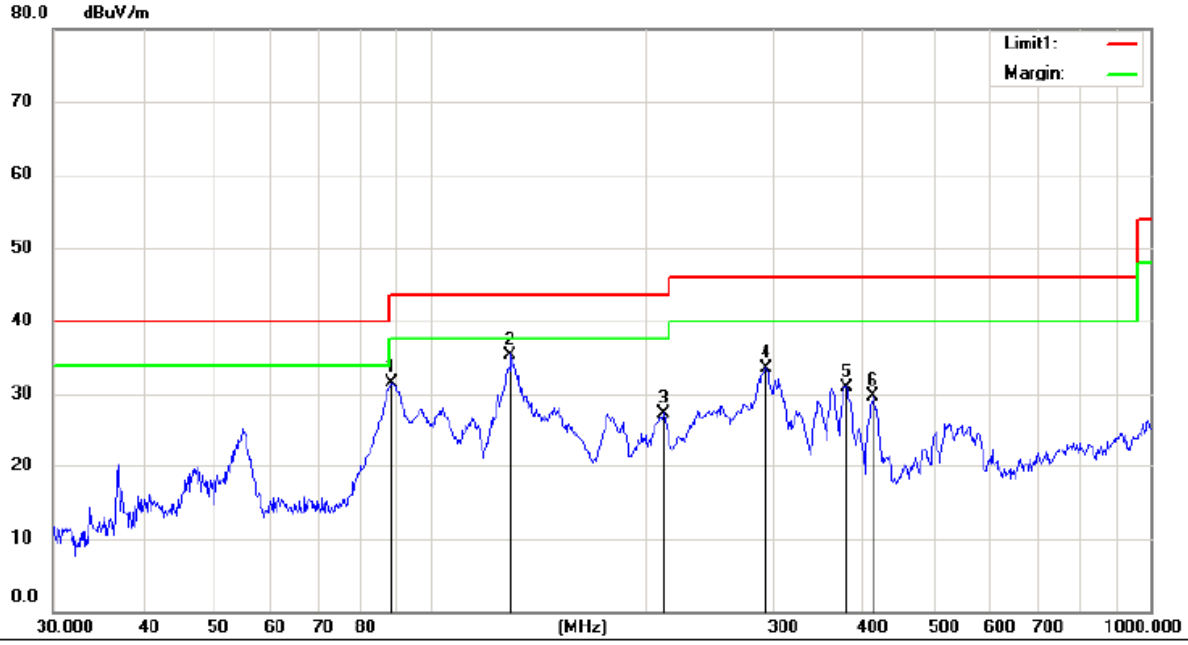
Limit: FCC Part15 Class B 3M Radiation Power: AC 120V/60Hz Humidity: 51 %

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		47.4917	50.77	-19.77	31.00	40.00	-9.00	QP			
2	*	90.5374	61.25	-23.25	38.00	43.50	-5.50	QP			
3		128.5630	58.13	-24.83	33.30	43.50	-10.20	QP			
4		148.4410	55.09	-25.19	29.90	43.50	-13.60	QP			
5		211.5264	48.54	-22.64	25.90	43.50	-17.60	QP			
6		379.9141	41.85	-16.85	25.00	46.00	-21.00	QP			

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



Site site #1 Polarization: ***Horizontal*** Temperature: 22 C

Limit: FCC Part15 Class B 3M Radiation Power: AC 120V/60Hz Humidity: 51 %

Mode:Mode 2

Note:

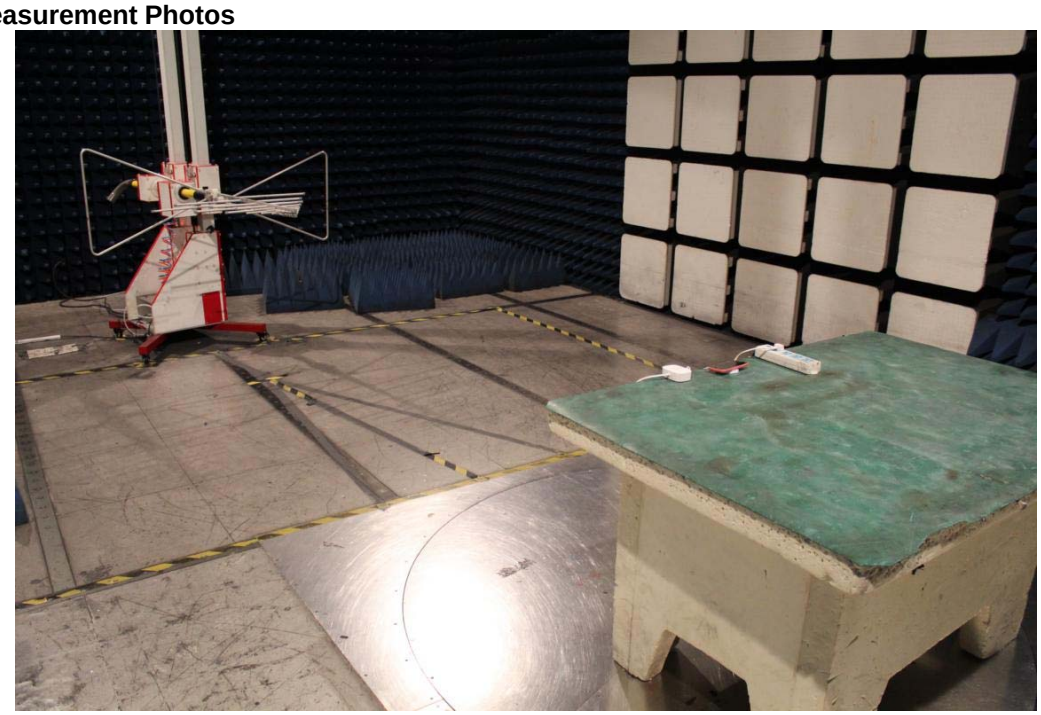
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		88.6524	55.33	-23.83	31.50	43.50	-12.00	QP			
2	*	129.4677	60.43	-25.03	35.40	43.50	-8.10	QP			
3		211.5264	50.04	-22.64	27.40	43.50	-16.10	QP			
4		293.0842	52.73	-19.13	33.60	46.00	-12.40	QP			
5		378.5842	47.92	-16.92	31.00	46.00	-15.00	QP			
6		411.8240	46.38	-16.68	29.70	46.00	-16.30	QP			

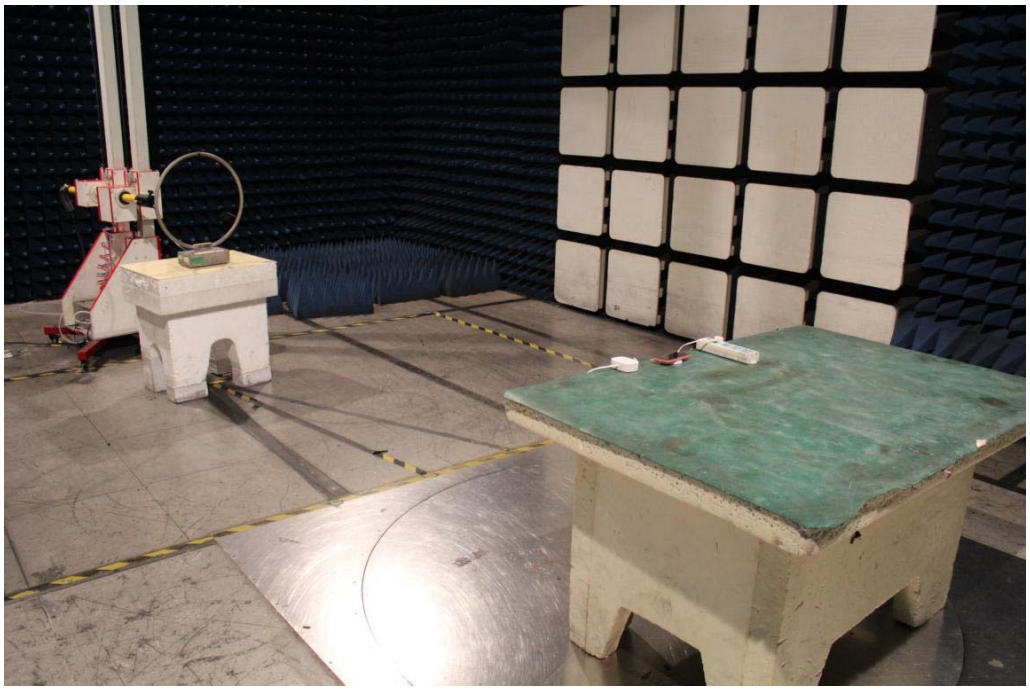
*:Maximum data x:Over limit !:over margin Operator: KK

7. PHOTOS OF SETUP

CONDUCTED EMISSION TEST

Radiated Measurement Photos





----------The end----------