ECMG
Electronic Technical Testing Corp.
www.ecmg-global.net

EMI TEST REPORT

Model Name: Hemispheric HD IP Video Door Phone

Model Number: GDS3710

Brand Name: Grandstream

Prepared for Grandstream Networks, Inc.

FCC ID Number: YZZGDS3710

Classification: Part 15 Class B Computing Device Peripheral(JBP)

According to FCC 47 CFR Part 15, Subpart B
Test Procedure: ANSI C63.4:2014

Test Report #: SHE-1608-11568-FCC

Prepared by: Nancy _____ *ECMG*
Nancy Han /Assistant *Company Name*

Reviewed by: _____ *ECMG*
Jawen Yin/ Senior Engineer *Company Name*

QC Manager: Swall Zhang _____ *ECMG*
Swall Zhang/QC Manager *Company Name*

Test Report Released by Swall Zhang _____ *February 8th, 2017*
Swall Zhang *Date*

Verdict

Test Result :	Pass*

*:In the configuration, the EUT complied with the standard specified above.

Revision History

Rev.	Issue date	Revision	Revised by
01	02/08/2017	Initial review	Jawen Yin
/	/	/	/

Test Location

Tests performed in a Certified ANSI Semi-Anechoic Chamber and Shielded Room.

Test Site Location:	*Shenzhen General Testing & Inspection Technology Co., Ltd.* *1F, 2 Block,Jiaquan Building, Guanlan High-tech Park Baoan District, Shenzhen, Guangdong, China.*
Tel:	*(86)-755- 27559792*
Fax:	*(86)-755- 86116468*

Accreditation Bodies

The test facility was recognized, certified, or accredited by the following organizations:

IC Registration No.: 9783A
The 3m alternate test site of Shenzhen GTI Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Aug, 2011.

FCC-Registration No.: 214666
Shenzhen GTI Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 214666, Sep 19, 2011

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List Attached Files

Exhibit Type	File Description	File Name
Test Report	Test Report	YZZGDS3710 _Test Report.pdf
Operation Description	Technical Description	YZZGDS3710 _Operation description.pdf
External Photos	External Photos	YZZGDS3710 _External Photos
Internal Photos	Internal Photos	YZZGDS3710 _Internal Photos
Block Diagram	Block Diagram	YZZGDS3710 _Block Diagram.pdf
Schematics	Circuit Diagram	YZZGDS3710 _Schematics.pdf
ID Label/Location	Label and Location	YZZGDS3710 _Label & Location.pdf
User Manual	User Manual	YZZGDS3710 _User Manual.pdf
Test setup photos	Test set-up photos	YZZGDS3710 _Test Set-up Photos

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Opinions and Interpretations

This test report relates to the abovementioned equipment under test (EUT). Without the permission of ECMG Electronic Technical Testing Corp (Shenzhen) Test Lab this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark on this or similar products. The manufacturer has sole responsibility of continued compliance of the device.

Statement of Measurement Uncertainty

The data and results referenced in the document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities that can account for a nominal measurement error. Furthermore, component and process variability of devices similar to that tested may result in additional deviation.

Administrative Data

Test Sample	*: Hemispheric HD IP Video Door Phone*
Model Numbers	*: GDS3710*
Model Tested	*: GDS3710*
Date of Receipt	*: September 10th, 2016*
Date Tested	*: September 14th,2016&February 6th ,2017*
Applicant	*: Grandstream Networks, Inc.*
Address	*126 Brookline Ave, 3rd Floor Boston, MA 02215, USA*
Telephone	*: +1 (617) 566-9300*
Fax	*: +1 (617) 249-1987*
Manufacturer	*: Grandstream Networks, Inc.*
Address	*126 Brookline Ave, 3rd Floor Boston, MA 02215, USA*
Telephone	*: +1 (617) 566-9300*
Fax	*: +1 (617) 249-1987*
Factory	*: Grandstream Networks, Inc.*
Address	*126 Brookline Ave, 3rd Floor Boston, MA 02215, USA*
Telephone	*: +1 (617) 566-9300*
Fax	*: +1 (617) 249-1987*

EUT Description

Grandstream Networks, Inc. Model Tested GDS3710 (referred to as the EUT in this report) is an Hemispheric HD IP Video Door Phone.

Rating(s) of EUT: Powered by PoE or DC 12V,1.0A

For other informations &features please refer to user's manual of EUT.

Frequency Range 0f Radiated Measurements

(b) For unintentional radiators:

(1) Except as otherwise indicated in paragraphs (b)(2) or (b)(3) of this section, for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30.
1.705-108	1000.
108-500	2000.
500-1000	5000.
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Note: Since the highest frequency operated of the EUT is 530MHz, so upper frequency of radiated emission test is up to 5GHz as per §15.33(b)(1).

Test Summary

The Electromagnetic Compatibility requirements on model GDS3710 for this test are stated below. All results listed in this report relate exclusively to this above-mentioned model as the Equipment under Test. This report confers no approval or endorsement upon any other component, host or subsystem used in the test set-up.

Emission Tests				
Specifications	**Description**	**Test Results**	**Test Point**	**Remark**
FCC Part 15.107 ANSI C63.4 - 2014	Conducted Emission	Passed	AC Input Port	Attachment 1
FCC Part 15.109 ANSI C63.4 - 2014	Radiated Emission	Passed	Enclosure	Attachment 2

Test Mode Justification

Pre-Scan has been conducted to determine the worst-case from all possible combination between available operation mode .Following mode(s) was (were) selected for the final test as listed below:

Pre-Test Mode	
EMI Test Mode	**Mode 1:** Communication with PC +PoE
	Mode 2: Communication with PC +Mass Power
Final Test Mode: Mode 1,2	

EUT Exercise Software

No Exercise software support this test.

Equipment Modification

Any modifications installed previous to testing by Grandstream Networks, Inc. will be incorporated in each production model sold or leased in United States.

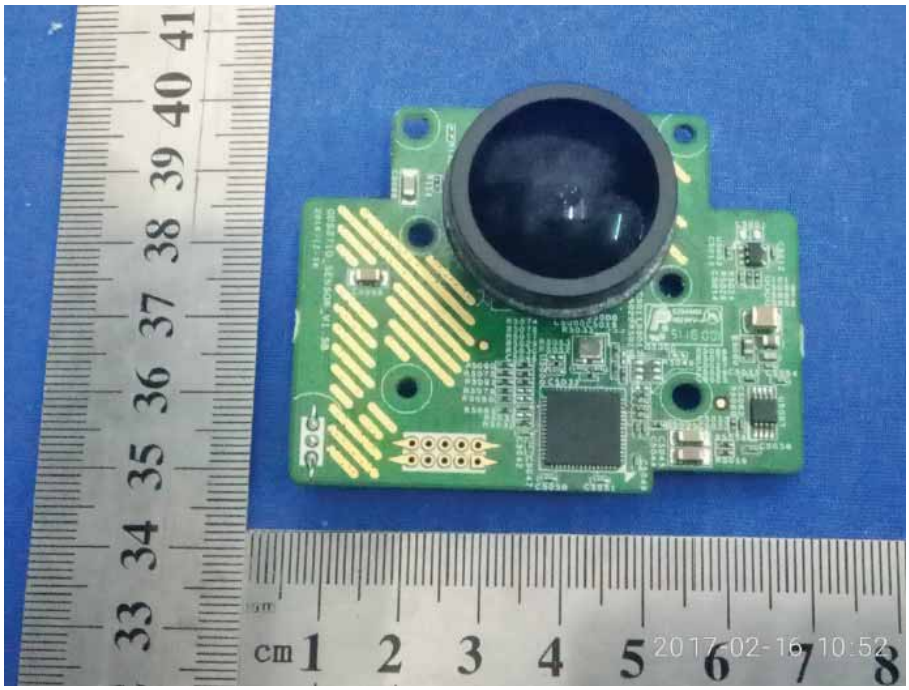
There were no modifications installed by ECMG Electronic Technical Testing Corp (Shenzhen).

EUT Sample Photos

EUT Exterior View

GRANDSTREAM

EUT Internal View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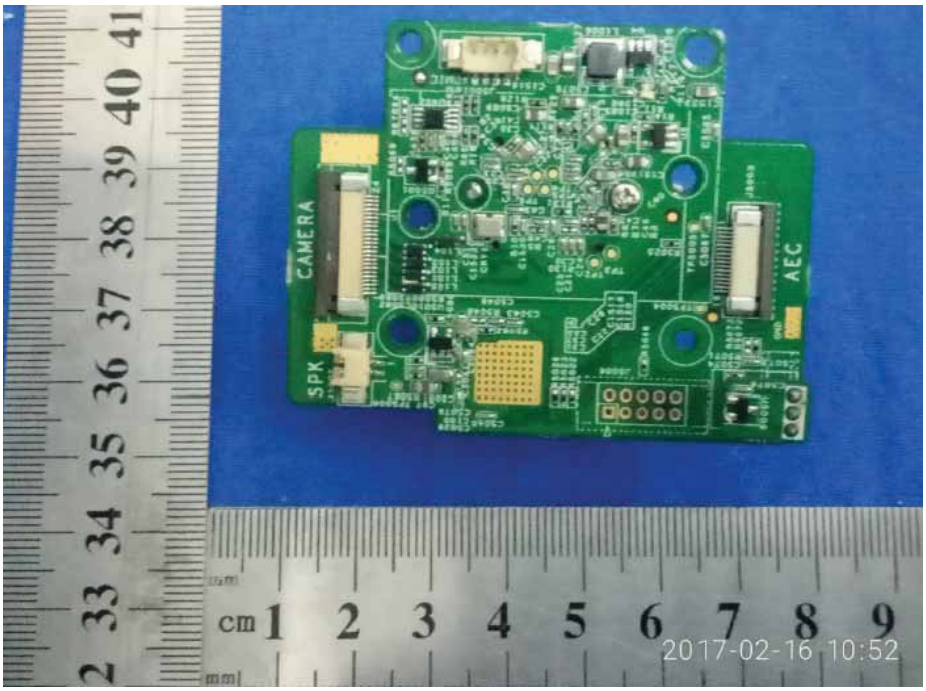
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SPK
AEC
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sensor
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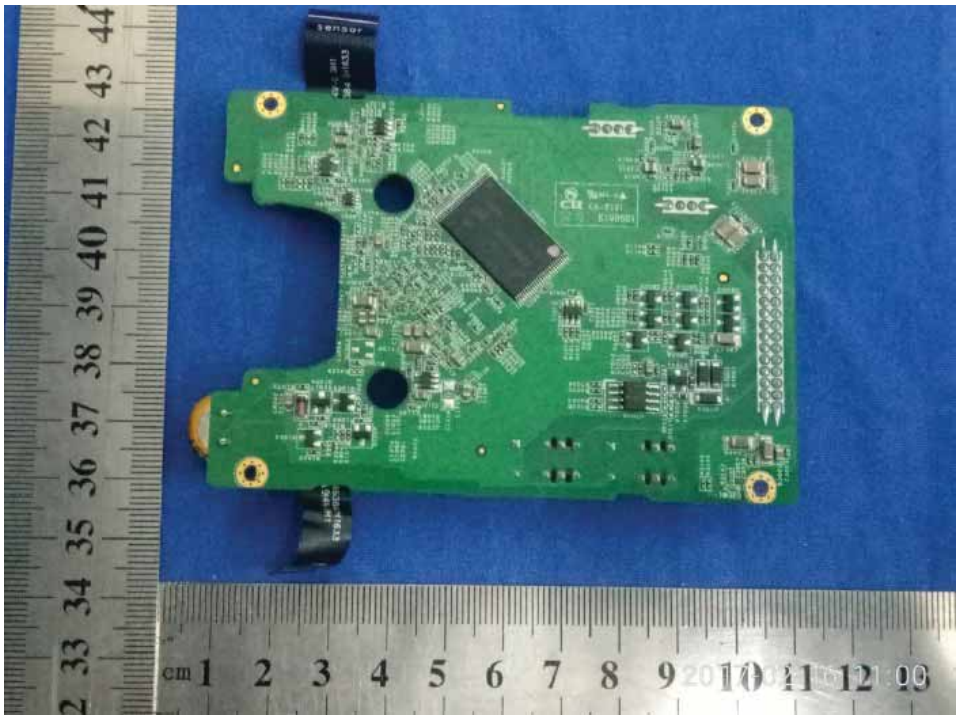
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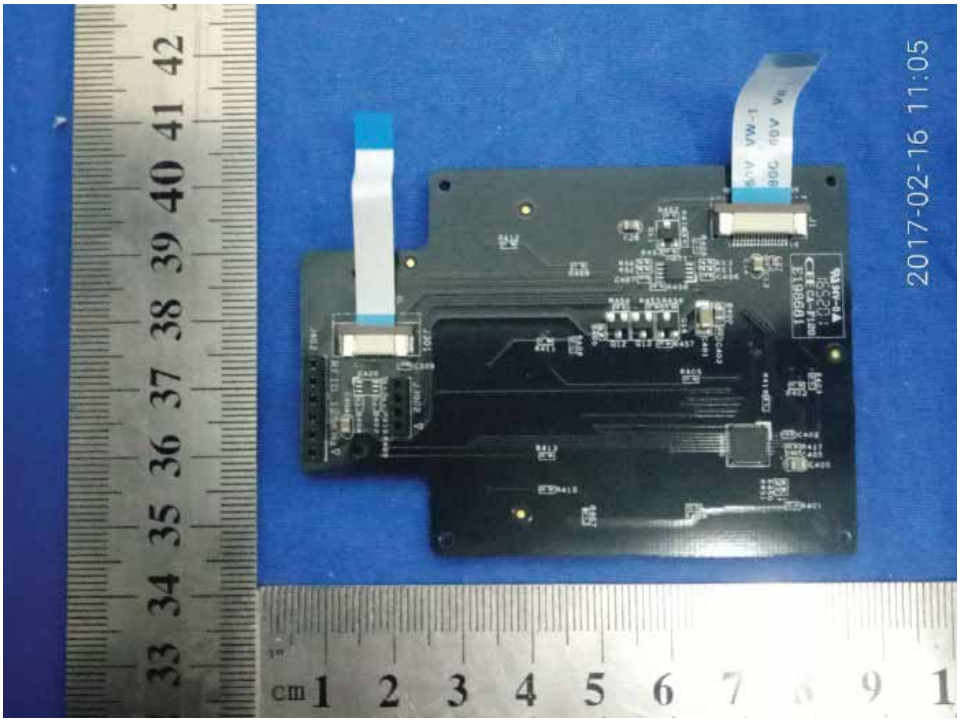
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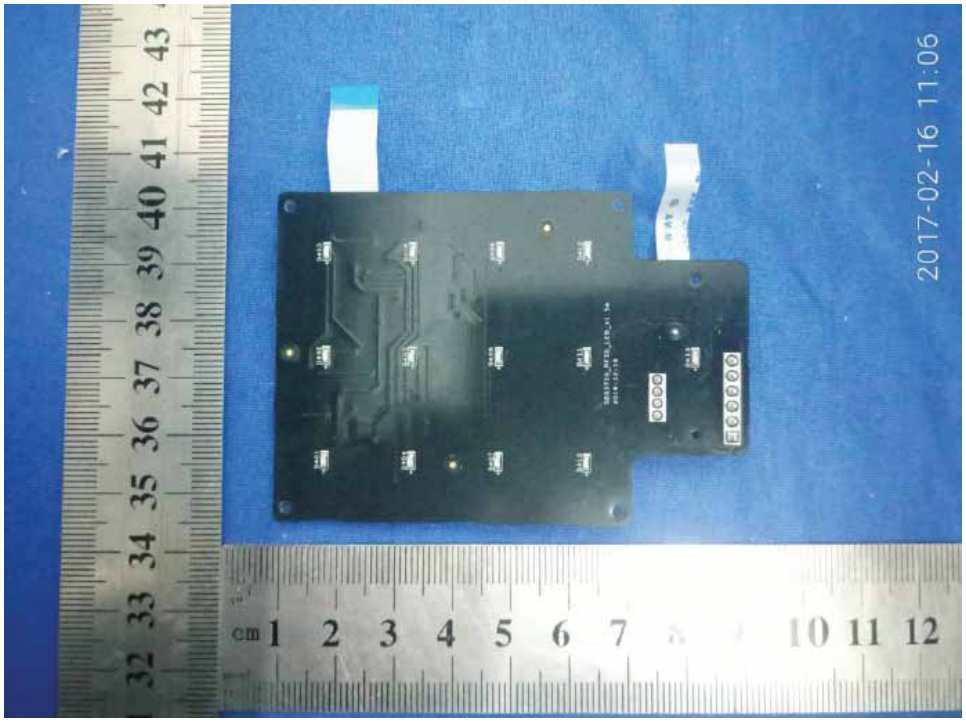
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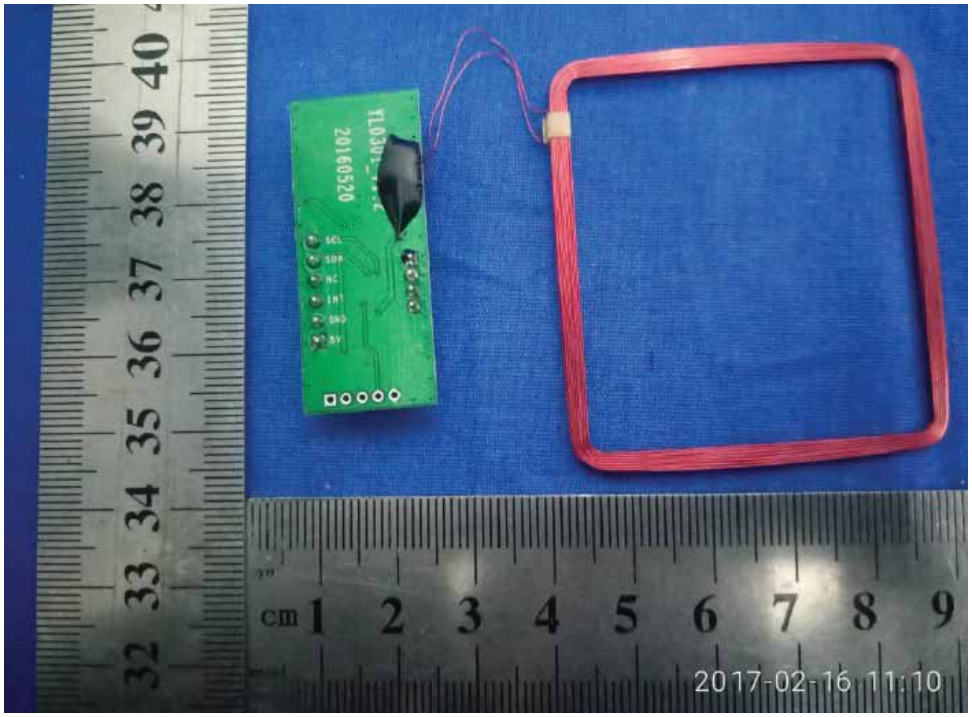
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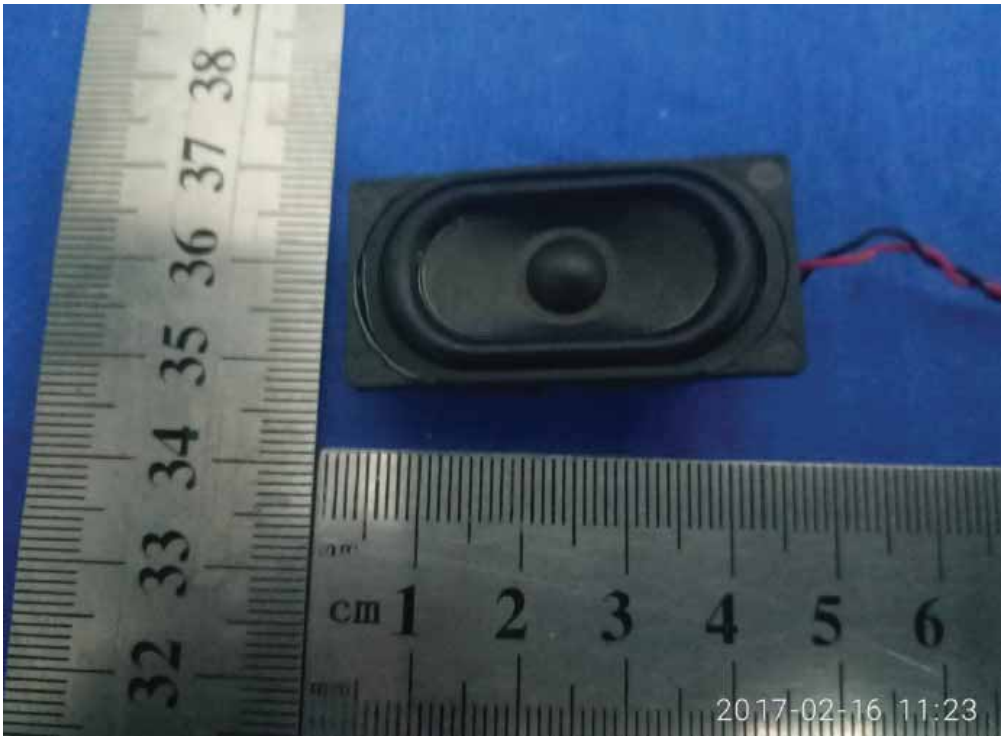
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2017-02-16 11:23

Test System Details

EUT	
Model Number:	GDS3710
Description:	Hemispheric HD IP Video Door Phone
Manufacturer:	Grandstream Networks, Inc.
Input Voltage:	Powered by PoE or DC12V

Support Equipment

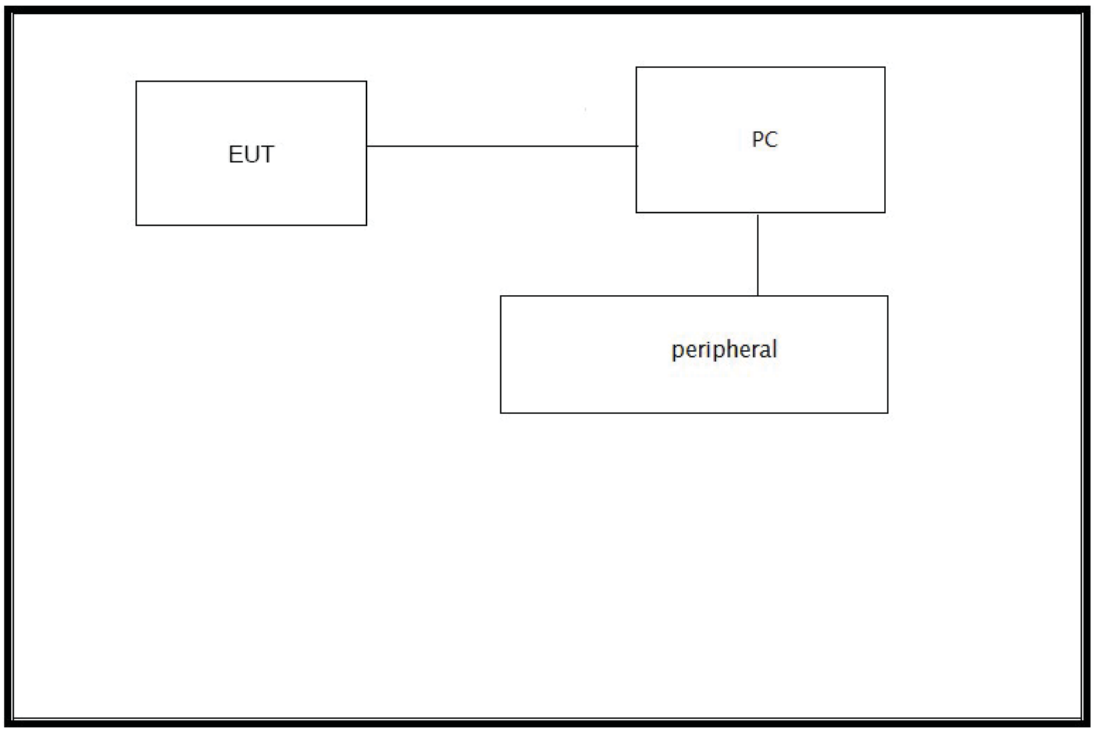
Description	Model Number	Serial Number	FCC Certificate	Manufacturer
PC	FV39JY1	34531671097	DoC	Dell
Monitor	U2142M	/	DoC	DELL
Printer	LBP2900	/	DoC	Canon
Keyboard	KH-0225	0683207	DoC	Lenovo
Mouse	N889	44AC107	DoC	DELL
Compact PoE switch	TL-POE160S	1164065000056	VoC	TP-Link
Power Adapter	SFF1200150A1BY	/	VoC	Mass Power

Cable Description

Cable No.	Type of Cable	From	To	Length (Meters)	Shielded (Y/N)	Ferrite (Y/N)
1	Network Cable	EUT	PC	1.5	N	N
2	Power cable	EUT	Plug	1.8	N	N
3	Printer Cable	EUT	Printer	1.2	Y	Y
4	VGA Cable	Monitor	PC	1.5	Y	Y
5	Keyboard Cable	Keyboard	PC	1.2	N	Y
6	Mouse Cable	Mouse	PC	1.2	N	Y

Note: *The EUT has been tested as an independent unit together with other necessary accessories or support units.the above support units or accessories were used to form a representative test configuration during the test tests.*

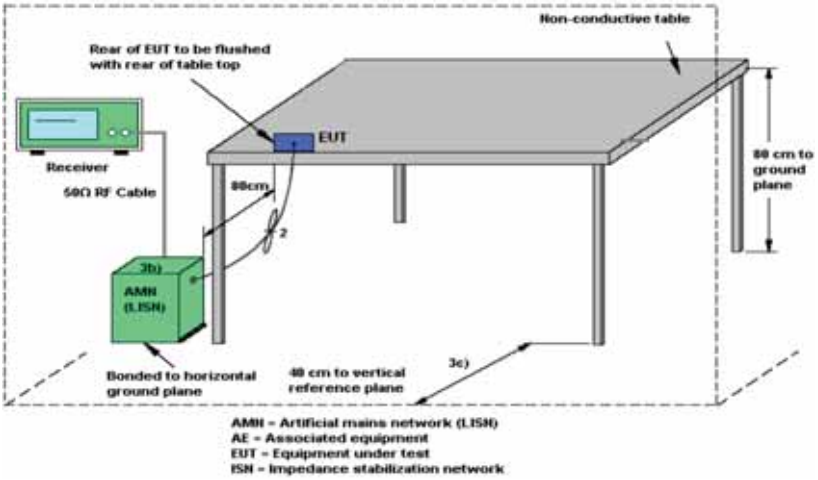
Configuration of Tested System



ATTACHMENT 1 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	Grandstream Networks, Inc.	**TEST STANDERD:**	Section 15.107
MODEL NUMBERS:	GDS3710	**PRODUCT:**	Hemispheric HD IP Video Door Phone
MODEL TESTED:	GDS3710	**EUT DESIGNATION:**	Home or Office
TEMPERATURE:	22°C	**HUMIDITY:**	48%
ATM PRESSURE:	103kPa	**GROUNDING:**	None
TESTED BY:	Alex Yu	**DATE OF TEST:**	September 14th, 2016
TEST REFERENCE:	ANSI C63.4- 2014		
TEST PROCEDURE:	The EUT was set up according to the guidelines of ANSI C63.4: 2014 for conducted emissions. The measurement was using a AMN on each line and an EMI receiver peak scan was made at the frequency measurement range. The six highest significant peaks were then marked, and these signals were then quasi-peaked and averaged. The frequency range investigated was from 150KHz to 30MHz. Corrected Amplitude & Over Limit Calculation. The basic equation as follow: VC = VR + AC + VDF; Herein, VC: corrected voltage amplitude VR: reading voltage amplitude AC: attenuation caused by cable loss VDF: voltage division factor of AMN or ISN. The “Over Limit” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a Over Limit of 7dB means the emission is 7dB below the maximum limit. The equation for Over Limit calculation is as follows: Over Limit = Limit - Corrected Amplitude.		
TEST MODE:	Mode 2		
TESTED RANGE:	150kHz to 30MHz		
TEST VOLTAGE:	AC 120V/60Hz by Power Adapter		
RESULTS:	The EUT meets the requirements of test reference for Conducted Emissions. The test results relate only to the equipment under test provided by client.		
CHANGES OR MODIFICATIONS:	There were no modifications installed by ECMG Electronic Technical Testing Corp(Shenzhen) test personnel.		
M. UNCERTAINTY:	The maximum measurement uncertainty is evaluated as: 150KHz~30MHz: 3.2dB. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.		

Continue on to next page…

TEST SET UP:	

EMI Receiver Set-up:

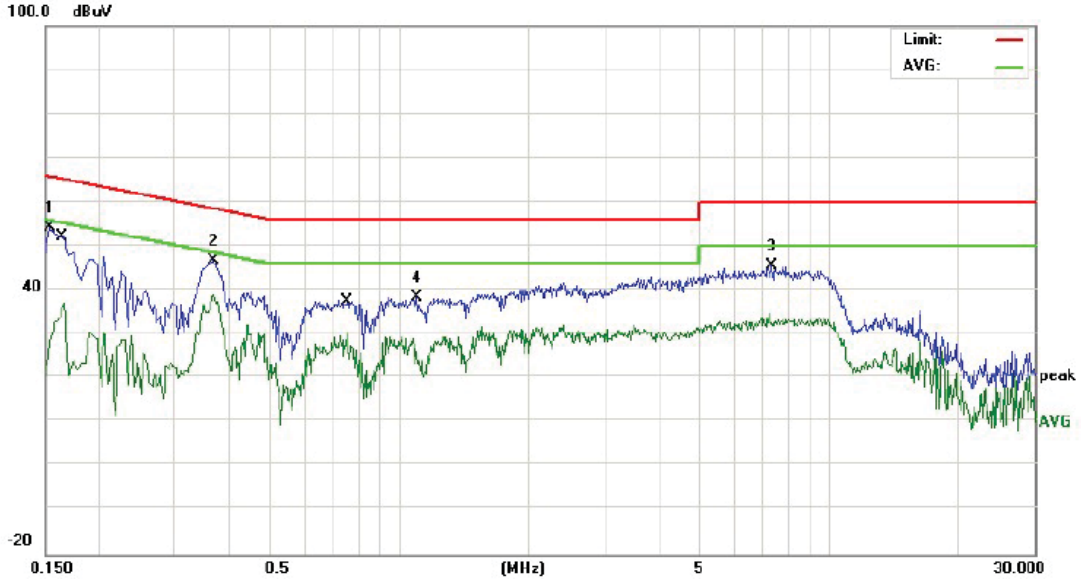
Frequency [MHz]	*IF B/W*
0.15 - 30	*9KHz*

Conducted Emission Limit:

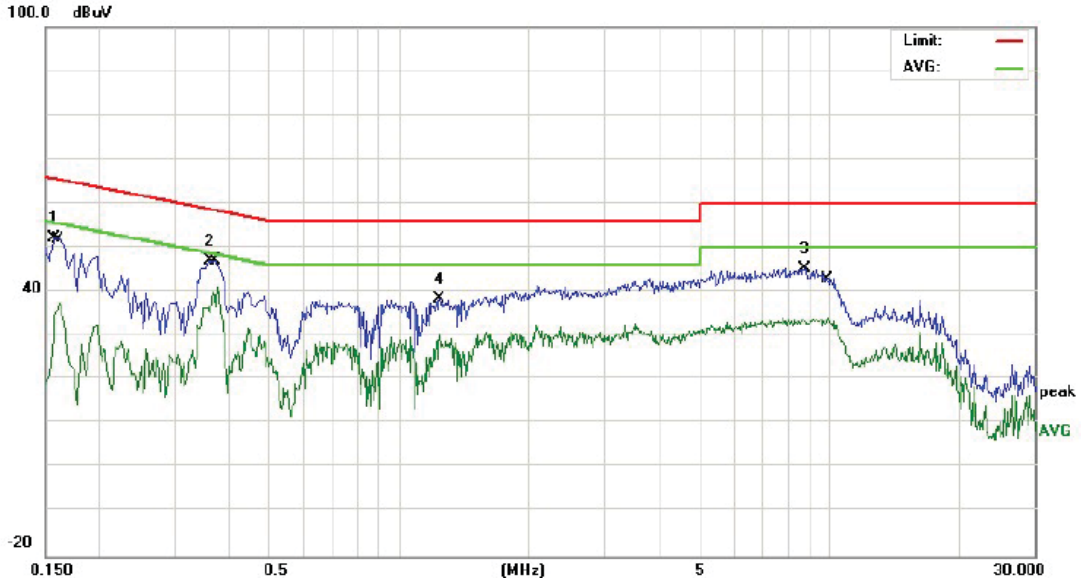
Frequency [MHz]	*Field strength [dBuV]*	
	Ouasi-peak	*Average*
0.15-0.5	*66 to 56**	*56 to 46**
0.5-5	*56*	*46*
5-30	*60*	*50*

**Decreases with the logatithm of the frequency.*

120VAC/60Hz Input



Line L Conducted Emission Graph



Line N Conducted Emission Graph

Test Data:

Lines	Frequency (MHz)	Corrected QP Level (dBuV)	Limits QP (dBuV)	Over Limit QP (dB)	Frequency (MHz)	Corrected AVE Level (dBuV)	Limits AVE (dBuV)	Over Limit AVE (dB)
L	0.154	54.26	65.78	-11.52	0.166	37.11	55.15	-18.04
L	0.370	46.65	58.50	-11.85	0.370	38.88	48.50	-9.62
L	7.334	45.63	60.00	-14.37	0.754	30.26	46.00	-15.74
L	/	/	/	/	/	/	/	/
L	/	/	/	/	/	/	/	/
N	0.158	52.14	65.56	-13.42	0.162	37.49	55.36	-17.87
N	0.362	47.10	58.68	-11.58	0.378	41.05	48.32	-7.27
N	8.738	45.29	60.00	-14.71	1.242	30.34	46.00	-15.66
N	/	/	/	/	/	/	/	/
N	/	/	/	/	/	/	/	/

Note:

1) All readings are using a bandwidth of 9 kHz, with a 500 ms sweep time. A video filter was not used.

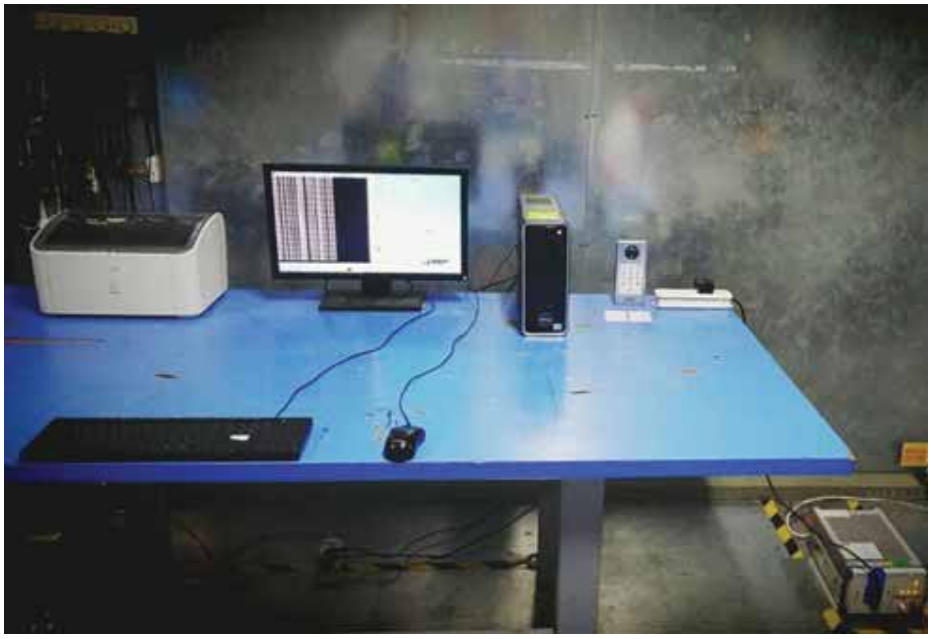
Test Equipment List:

Test Equipment	Model No.	Manufacturer	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	ECSI	R&S	100920	2017.01.05	2018.01.04
Line impedance stabilization network	ENV216	R&S	101112	2017.01.05	2018.01.04

Note: All testing were performed using internationally recognized standards. All test instruments were calibrated.

TESTED BY: _____ **ENGINEER**

REVIEWED BY: _____ **SENIOR ENGINEER**



Conducted Emission Test Set-up –Front view

Conducted Emission Test Set-up –Back view

ATTACHMENT 2 – RADIATED EMISSION MEASUREMENT

CLIENT:	Grandstream Networks, Inc.	**TEST STANDERD:**	Section 15.109
MODEL NUMBERS:	GDS3710	**PRODUCT:**	Hemispheric HD IP Video Door Phone
EUT MODEL:	GDS3710	**EUT DESIGNATION:**	Home or Office
TEMPERATURE:	22°C	**HUMIDITY:**	47%RH
ATM PRESSURE:	103.0kPa	**GROUNDING:**	None
TESTED BY:	Alex Yu	**DATE OF TEST:**	September 14th, 2016&Feb 6th,2017
TEST REFERENCE:	ANSI C63.4: 2014		
TEST PROCEDURE:	The EUT was set up according to the guidelines of ANSI C63.4: 2014 for radiated emissions. An EMI receiver peak scan was made at the frequency measurement range (pre-scan) in an Anechoic chamber.signal discrimination was then performed and the significant peaks marked.these peaks were then average and peak in the frequency range of 9KHz to 30MHz at an anechoic chamber,quasi-peaked in the frequency range of 30 MHz to 1GHz and average and peak in the frequency range of 1GHz to 5GHz at an anechoic chamber. The following data lists the significant emission frequencies, measured levels, correction factors (including cable and antenna correction factors), and the corrected readings against the limits. Explanation of the Correction Factor are given as follows: FS= RA + AF + CF - AG Where: FS = Field Strength RA = Receiver Amplitude AF = Antenna Factor CF = Cable Attenuation Factor AG = Amplifier Gain		
TEST MODE:	Mode 1,Mode 2		
TESTED RANGE:	9KHz to 30MHz and 30 to 5000MHz (Please see page 2 of 16)		
TEST VOLTAGE:	120VAC/60Hz and Powered by PoE		
RESULTS:	The EUT meet the requirements of test reference for radiated emissions.The test results relate only to the equipment under test provided by client.		
CHANGES OR MODIFICATIONS:	There were no modifications installed by ECMG Electronic Technical Testing Corp (Shenzhen). Test personnel.		
M. UNCERTAINTY:	The maximum measurement uncertainty is evaluated as : 30~1000MHz: 4.7dB;1~2GHz: 4.5dB. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.		

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EMI Receiver Set-up:

Frequency [MHz]	RBW	VBW	Detector
0.009-0.015	200Hz	1KHz	Quasi-peak
0.015-30	9KHz	30kHz	Quasi-peak
30-1000	120KHz	300KHz	Quasi-peak
Above 1GHz	1MHz	3MHz	Peak
	1MHz	10Hz	PK detector is for AV

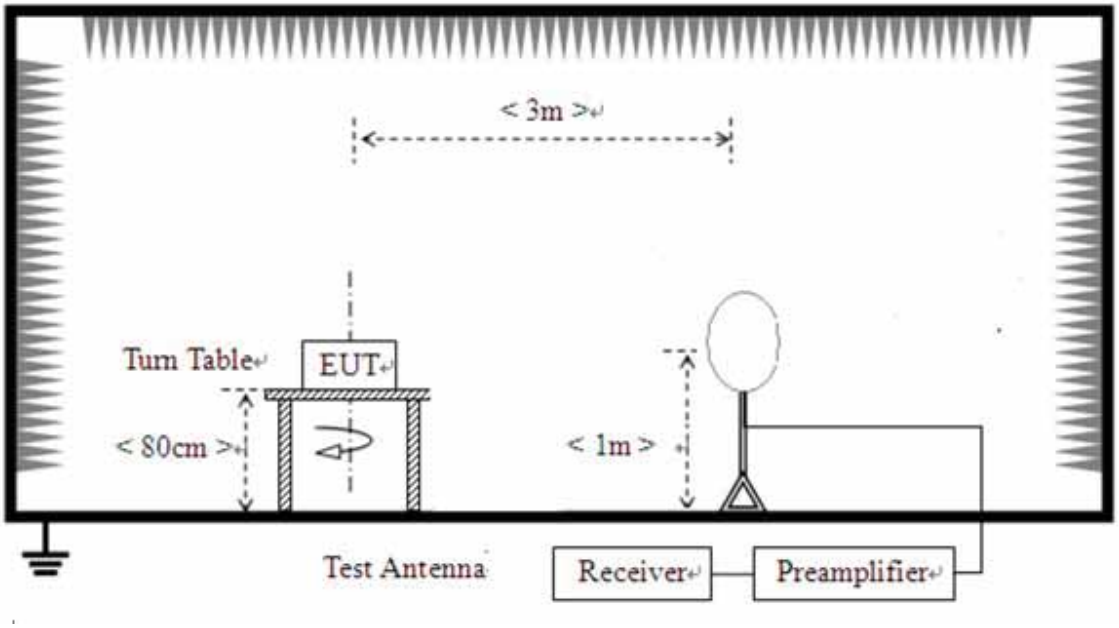
Note 1: In the emission table above, the tighter limit applies at the band edges.
Note 2: (d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Radiated Emission Limit:

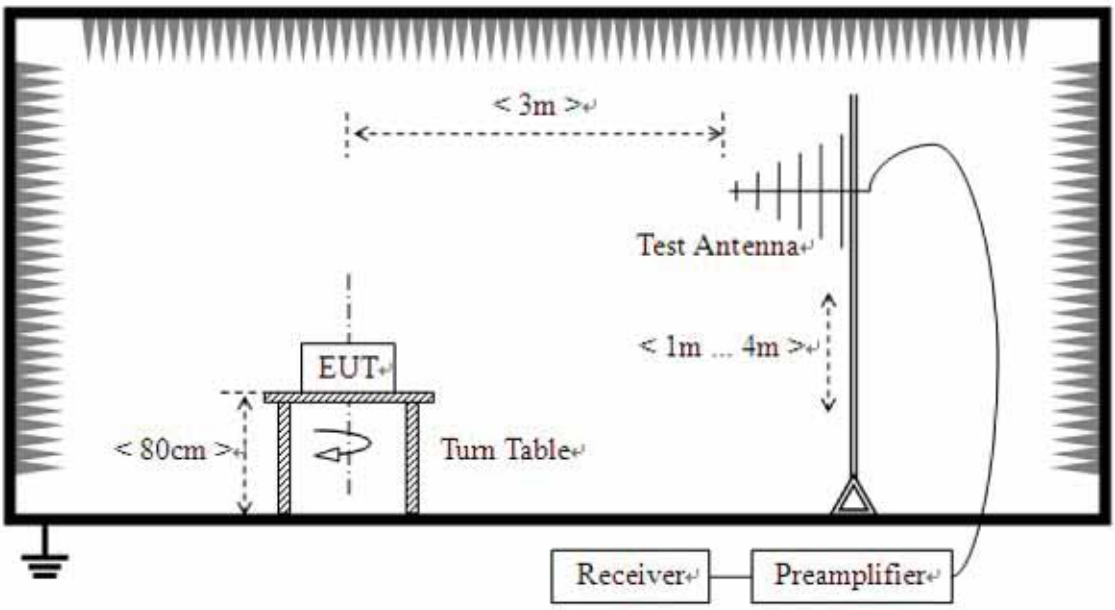
FCC Part 15 Subpart B&C Paragraph 15.109&15.209			
Frequency [MHz]	Field strength [uV/m]	Limit@3m (dBuV/m)	Distance [Meters]
0.009-0.490	2400/F(KHz)	128.5~93.8	300
0.490-1.705	24000/F(KHz)	73.8~63.0	30
1.705-30	30	69.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Note 1: The lower limit shall apply at the transition frequency.
Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
Note 3: E field strength (dBμV/m) = 20 log E field strength (uV/m)

Frequency measured at 9KHz to 30MHz:



Frequency measured at 30MHz to 1000MHz:



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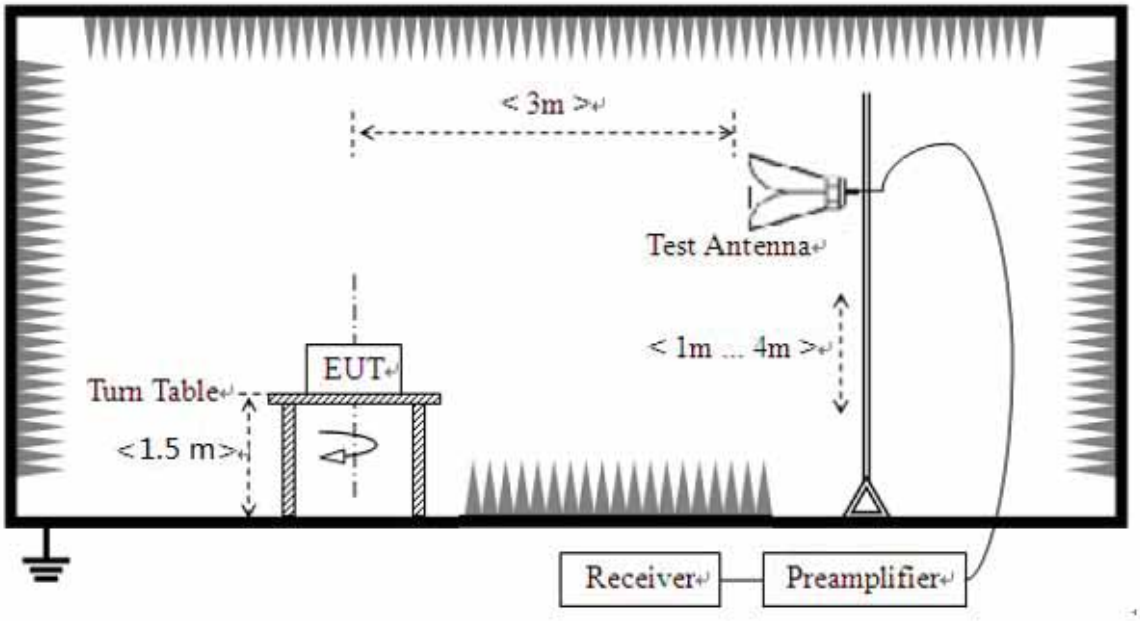
Frequency measured at Above 1GHz:



Radiated Emission Test Result For 9KHz to 30MHz:

The 120VAC/60Hz input mode was selected for final testing for 9KHz to 30MHz:

Test No.#:	Frequency (MHz)	Factor (dB)	Reading Level QP/AV (dBuV/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	/	/	/	/	/	/
2	/	/	/	/	/	/
3	/	/	/	/	/	/
4	/	/	/	/	/	/
5	/	/	/	/	/	/
6	/	/	/	/	/	/

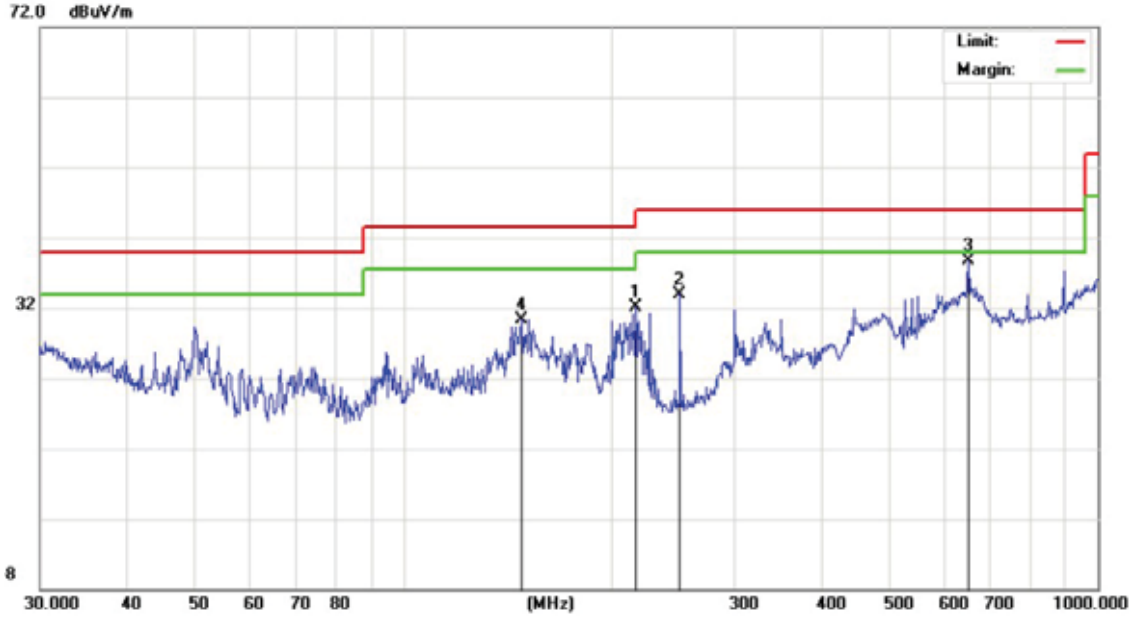
Note:

1. *The field strength is calculated by adding the antenna factor, cable factor. The basic equation with a sample calculation is as follows: Emission Level =Reading Level +Factor.*
2. *The limits shown are based on quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. the bandwidth of Test Receiver was set at 200Hz in frequency range of 9KHz to 150KHz, 9kHz in the frequency range of 150KHz to 30MHz.*
3. *All emission levels in the frequency range of 9KHz to 30MHz are 20dB below the official limits that are not reported.*

30-1000MHz:

AC 120V/60Hz :

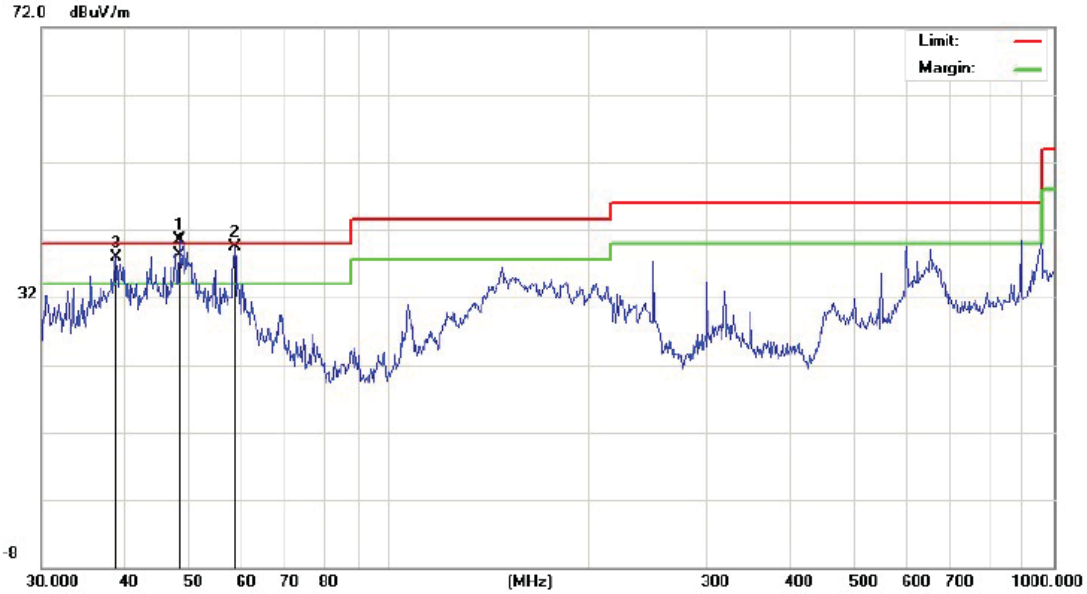
Horizontal: Radiated Emission Test Plot(30-1000MHz)



Vertical: Radiated Emission Test Plot(30-1000MHz)

PoE Mode:

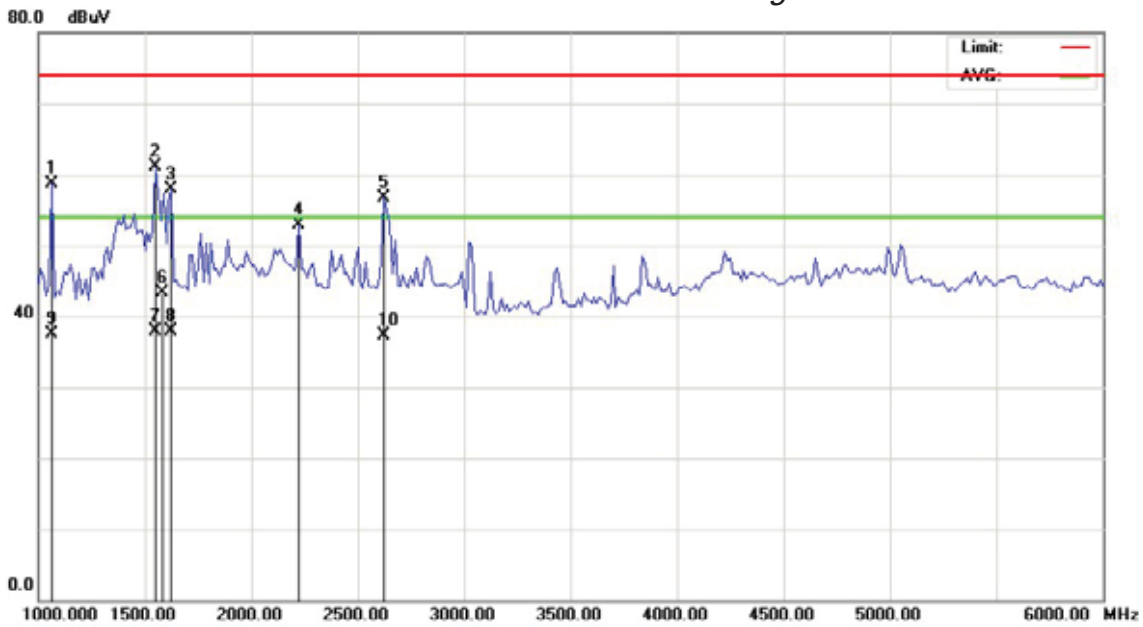
Horizontal: Radiated Emission Test Plot(30-1000MHz)



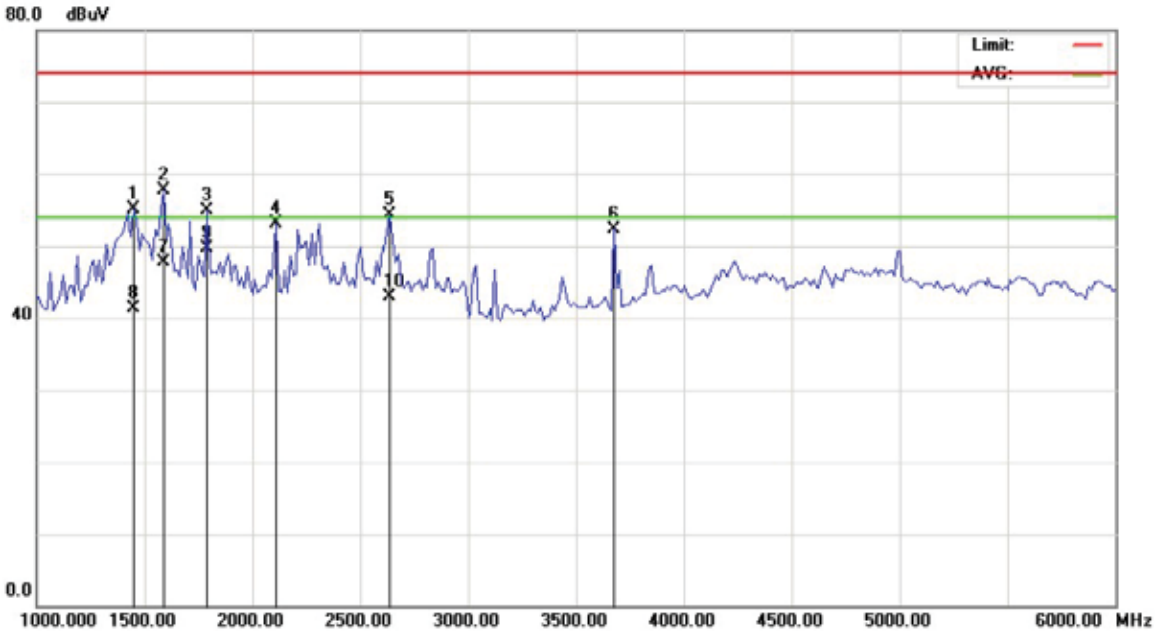
Vertical: Radiated Emission Test Plot(30-1000MHz)

1 to 5GHz:

The PoE mode was selected for final testing for above 1GHz:



Horizontal: Radiated Emission Test Plot-Max. hold(1-5000MHz)



Vertical: Radiated Emission Test Plot-Max. hold(1-5000MHz)

NOTE:POE is the worse case

Radiated Emission Test Data(30-1000MHz):

AC120V/60Hz Input:

Frequency (MHz)	Polarization (H/V)	Factor (dB)	Reading Level QP (dBuV/m)	Emission Level QP (dBuV/m)	Limit (dBuV/m)	Over Limt (dB)
218.3085	H	12.18	21.94	34.12	46	-11.88
893.8567	H	25.43	18.7	44.13	46	-1.87
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/
48.451	V	10.50	27.80	38.30	40	-1.70
58.613	V	6.94	30.50	37.44	40	-2.56
38.888	V	15.85	22.14	37.99	40	-2.01
893.8567	V	25.43	18.7	35.13	46	-10.87
/	/	/	/	/	/	/
/	/	/	/	/	/	/

Note:

1. All readings are quasi-peak unless stated otherwise, using a QPA bandwidth of 120kHz, with a 60 s sweep time. A video filter was not used.
2. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Emission Level =Reading Level + Antenna Factor + Cable Loss –Preamplifier Factor.
3. The other emission levels are 20dB below the official limits that are not reported.

PoE Mode:

Frequency (MHz)	Polarization(H/V)	Factor (dB)	Reading Level QP (dBuV/m)	Emission Level QP (dBuV/m)	Limit (dBuV/m)	Over Limt (dB)
218.3085	H	12.18	21.88	34.06	46	-11.94
300.3672	H	13.84	25.17	39.01	46	-6.99
893.8567	H	25.13	19.70	44.83	46	-1.17
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/
147.9214	V	12.65	17.58	30.23	43.5	-13.27
250.3012	V	12.12	21.82	33.94	46	-12.06
651.9417	V	21.63	17.06	38.69	46	-7.31
893.8567	V	25.43	16.7	33.13	46	-12.87
/	/	/	/	/	/	/
/	/	/	/	/	/	/

Note:

1. All readings are quasi-peak unless stated otherwise, using a QPA bandwidth of 120kHz, with a 60 s sweep time. A video filter was not used.
2. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Emission Level =Reading Level + Antenna Factor + Cable Loss –Preamplifier Factor.
3. The other emission levels are 20dB below the official limits that are not reported.

PoE Mode&Above 1GHz:

Frequency (MHz)	Factor (dB)	Reading Level (dBuV/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Antenna Polarization (H/V)
Peak Measurement						
1555.000	-13.29	74.42	61.13	74	-12.87	H
2625.000	-9.71	66.41	56.70	74	-17.30	H
/	/	/	/	/	/	/
/	/	/	/	/	/	/
1450.000	-13.10	68.12	55.02	74	-19.98	V
1587.500	-13.03	70.78	57.75	74	-16.25	V
/	/	/	/	/	/	/
/	/	/	/	/	/	/
Avarage Measurement						
1550.000	-13.29	51.29	38.00	54	-16.00	H
1583.300	-13.07	56.38	43.31	54	-10.69	H
/	/	/	/	/	/	/
/	/	/	/	/	/	/
1450.000	-13.10	54.40	41.30	54	-12.70	V
1587.500	-13.03	60.69	47.66	54	-6.34	V
1787.500	-12.10	61.90	49.80	54	-4.20	V
/	/	/	/	/	/	/

Note:

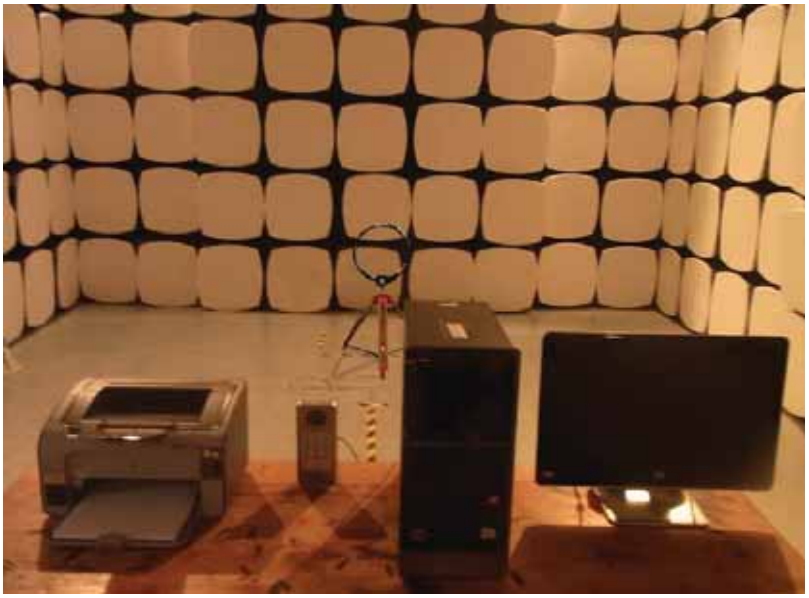
1. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Emission Level =Reading Level + Antenna Factor + Cable Loss –Preamplifier Factor.
2. The limits shown are based on Peak value and Average value detector above 1GHz,the bandwidth of Test Receiver was set at 1MHz above 1GHz.
3. The other emission levels are 20dB below the official limits that are not reported.

Test Equipment List:

Test Equipment	Manufacturer	Model	Cal. Interval	Serial No.	Cal. Due Date
EMI Test Receiver	R&S	ESCI	1 year	100967	2018.01.04
Loop Antenna	Schwarzbeck	FMZB1519	1 year	1519-037	2018.01.04
Bilog Antenna	Schwarzbeck	CBL6141A	1 year	4180	2018.01.04
Horn Antenna	Schwarzbeck	BBHA 9120D	1 year	647	2018.01.04
Low Noise Pre-Amplifier	HP	8447D	1 year	1937A03050	2018.01.04

TESTED BY: _____ **ENGINEER**

REVIEWED BY: _____ **SENIOR ENGINEER**



Radiated Emission Test Set-up(9KHz-30MHz)

Radiated Emission Test Set-up(30-1000MHz)

Radiated Emission Test Set-up(1-5GHz)

Radiated Emission Test Set-up-Rear View

※※※ End Of Report ※※※