

MRT Technology (Suzhou) Co., Ltd

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MEASUREMENT REPORT

FCC Part 15B

FCC ID: YZZGVC3200

APPLICANT: Grandstream Networks, Inc.

Application Type: Certification

Product: Full HD Video Conferencing System

Model No.: GVC3202

Brand Name: Grandstream

FCC Classification: FCC Class B Digital Device (JBP)

FCC Rule Part(s): FCC Part 15 Subpart B

Test Procedure(s): ANSI C63.4: 2014

Test Date: November 18 ~ 21, 2015

Reviewed By : Robin Wu

(Robin Wu)

Approved By: Marlinchen

(Marlin Chen)





The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2014. Test results reported herein relate only to the item(s) tested.

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Revision History

Report No.	Version	Description	Issue Date
1511RSU00505	Rev. 01	Initial report	11-24-2015

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§2.1033 General Information

Applicant:	Grandstream Networks, Inc.		
Applicant Address:	4th Floor, Rainbow Technology Building #16 New West Rd, Nanshan		
	Science & Technology Park (North District), Shenzhen,China		
	518057		
Manufacturer:	Grandstream Networks, Inc.		
Manufacturer Address:	4th Floor, Rainbow Technology Building #16 New West Rd, Nanshan		
	Science & Technology Park (North District), Shenzhen, China		
	518057		
Test Site:	MRT Technology (Suzhou) Co., Ltd.		
Test Site Address:	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong		
	Economic Development Zone, Suzhou, China		
MRT FCC Registration No.:	809388		
Model No.:	GVC3202		
FCC ID:	YZZGVC3200		
Test Device Serial No.:	N/A ☐ Production ☐ Pre-Production ☐ Engineering		

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-4179, G-814, C-4664, T-2206) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.



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1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2014 on September 30, 2013.



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2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	Full HD Video Conferencing System	
Model No.	GVC3202	
Components		
Adapter	M/N: NBS65A120500M3	
	NPUT: 100-240V ~ 50/60Hz, 1.5A	
	OUTPUT: 12.0Vdc, 5.0A	

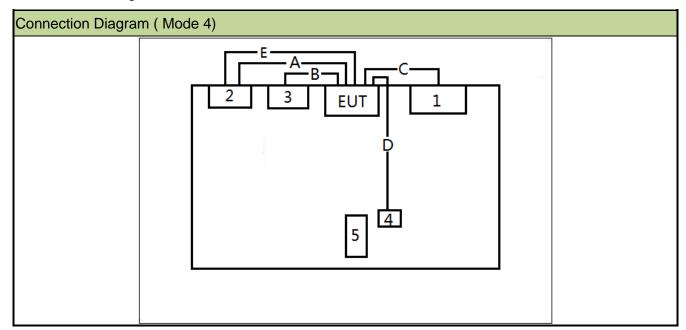
2.2. Test Mode

	Mode 1: UDMI In 8 UDMI 1 Output Mode
Pre-Test Mode	Mode 1: HDMI In & HDMI 1 Output Mode
	Mode 2: HDMI In & HDMI 2 Output Mode
	Mode 3: VGA In & HDMI 1 Output Mode
	Mode 4: VGA In & HDMI 2 Output Mode
Final Test Mode	Mode 4: VGA In & HDMI 2 Output Mode

Note: This report has assessed four pre-test modes, and showed the worst test mode.

2.3. Test Configuration

The EUT was tested per the guidance FCC Part 15 Subpart B: 2014 and ANSI C63.4: 2014 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.



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Signal	Cable Type	Signal Cable Description
Α	LAN Cable	Non-Shielding, 2m
В	USB Cable	Shielding, 2m
С	HDMI Cable	Shielding, 2m
E	VGA Cable	Shielding, 1.5m
D	USB Cable	Shielding, 1.8m

2.4. Test System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Produ	ct	Manufacturer	Model No.	Power Cord
1	HDMI Monitor	DELL	U2713Hb	Non-Shielding, 1.8m
2	Notebook	Lenovo	E430c	Non-Shielding, 1.8m
3	Thunder	InFocus	INA-TH150	Non-Shielding, 1.8m
4	USB Mouse	DELL	MS111-T	N/A
5	Remote Control	Grandstream	GVC3200RMT	N/A

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3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-2014) was used in the measurement of the Equipment under test.

Deviation from measurement procedure......None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, $50\Omega/50uH$ Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150 kHz to 30 MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or resolution, clock or data exchange speed, scrolling H pattern to the EUT and/or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site.

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Line conducted emissions test results are shown in Section 6.2.



3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, Full HD Video Conferencing Systemled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable. For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30 MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30 MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 0.8 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found. Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB beam-width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

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4. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2016/11/03
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2016/11/03
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2016/11/03
Temperature/Humidity Meter	Ouleinuo	N/A	MRTSUE06114	1 year	2016/11/20

Radiated Emission

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2016/11/03
Spectrum Analyzer	Agilent	E4447A	MRTSUE06028	1 year	2015/12/09
TRILOG Antenna	Schwarzbeck	VULB9162	MRTSUE06022	1 year	2016/11/07
Preamplifier	Agilent	83017A	MRTSUE06020	1 year	2015/12/13
Temperature/Humidity Meter	Ouleinuo	N/A	MRTSUE06115	1 year	2016/11/20

Software	Version	Function
e3	V8.3.5	EMI Test Software

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5. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

AC Conducted Emission Measurement

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

150kHz~30MHz: 3.5dB

Radiated Emission Measurement

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

9kHz ~ 1GHz: 4.18dB 1GHz ~ 18GHz: 4.76dB

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6. TEST RESULT

6.1. Summary

Company Name: <u>Grandstream Networks, Inc.</u>

FCC ID: <u>YZZGVC3200</u>
Worst-case Test Mode: <u>VGA Input Mode</u>

FCC Part Section(s)	Test Description	Test Result
15.107	Conducted Emissions	Pass
15.109	Radiated Emissions	Pass

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6.2. Conducted Emission Measurement

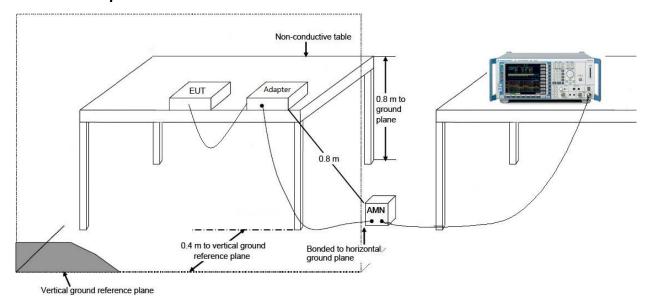
6.2.1. Test Limit

FCC Part 15.107 Limits				
Frequency (MHz)	QP (dBµV)	ΑV (dBμV)		
0.15 - 0.50	66 - 56	56 - 46		
0.50 - 5.0	56	46		
5.0 - 30	60	50		

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.2.2. Test Setup

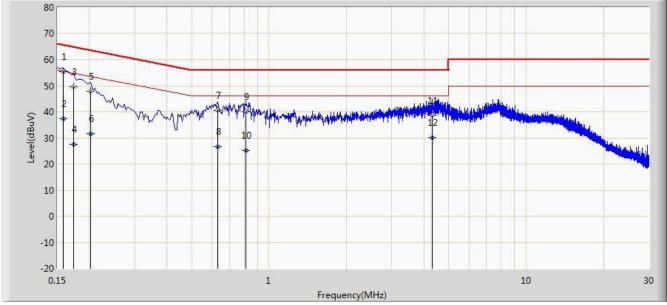


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6.2.3. Test Result of Conducted Emissions

Site: SR2	Time: 2015/11/21 - 12:01
Limit: FCC_Part15.107_CE_AC Power_ClassB	Engineer: Milo Li
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: Full HD Video Conferencing System	Power: AC 120V/60Hz
Note: Mode 4	



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1		*	0.158	55.340	45.029	-10.229	65.568	10.311	QP
2			0.158	37.291	26.980	-18.278	55.568	10.311	AV
3			0.174	49.581	39.513	-15.187	64.767	10.068	QP
4			0.174	27.657	17.589	-27.110	54.767	10.068	AV
5			0.202	47.779	37.786	-15.749	63.528	9.993	QP
6			0.202	31.597	21.604	-21.931	53.528	9.993	AV
7			0.630	40.593	30.493	-15.407	56.000	10.099	QP
8			0.630	26.625	16.526	-19.375	46.000	10.099	AV
9			0.814	39.873	29.869	-16.127	56.000	10.004	QP
10			0.814	25.344	15.341	-20.656	46.000	10.004	AV
11			4.306	38.451	28.472	-17.549	56.000	9.980	QP
12			4.306	30.186	20.207	-15.814	46.000	9.980	AV

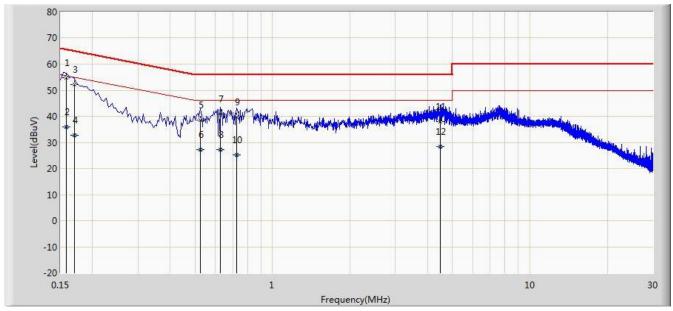
Note: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

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Site: SR2	Time: 2015/11/21 - 12:07		
Limit: FCC_Part15.107_CE_AC Power_ClassB	Engineer: Milo Li		
Probe: ENV216_101683_Filter On	Polarity: Neutral		
EUT: Full HD Video Conferencing System	Power: AC 120V/60Hz		
Note: Mode 4			



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1		*	0.158	54.812	44.522	-10.756	65.568	10.290	QP
2			0.158	36.052	25.762	-19.516	55.568	10.290	AV
3			0.170	52.234	42.170	-12.727	64.960	10.064	QP
4			0.170	32.832	22.768	-22.129	54.960	10.064	AV
5			0.526	38.591	28.419	-17.409	56.000	10.172	QP
6			0.526	27.225	17.053	-18.775	46.000	10.172	AV
7			0.626	40.863	30.746	-15.137	56.000	10.117	QP
8			0.626	27.348	17.231	-18.652	46.000	10.117	AV
9			0.726	39.693	29.633	-16.307	56.000	10.060	QP
10			0.726	25.145	15.085	-20.855	46.000	10.060	AV
11			4.498	37.969	27.970	-18.031	56.000	9.999	QP
12			4.498	28.413	18.414	-17.587	46.000	9.999	AV

Note: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

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6.3. Radiated Emission Measurement

6.3.1. Test Limit

FCC Part 15.109 Limits							
Frequency (MHz)	Distance (m)	Level (dBµV/m)					
30 - 88	3	40					
88 - 216	3	43.5					
216 - 960	3	46					
Above 960	3	54					

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 $(dB\mu V/m) = 20 \log E$ field strength (uV/m)

6.3.2. Test Frequency selected

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:

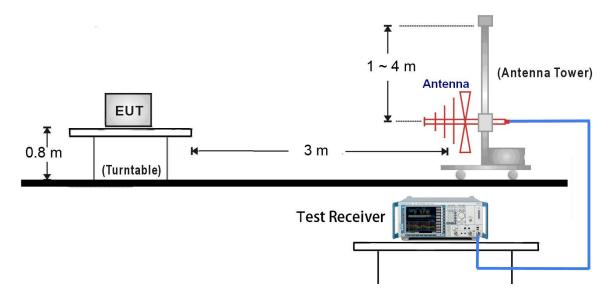
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

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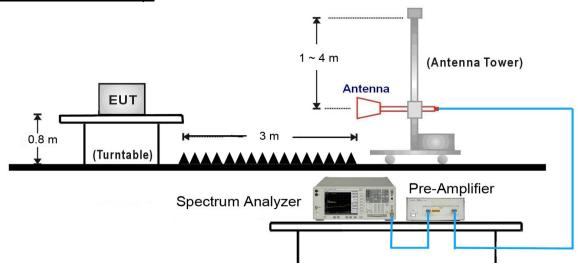


6.3.3. Test Setup

30MHz ~ 1GHz Test Setup:



1GHz ~18GHz Test Setup:

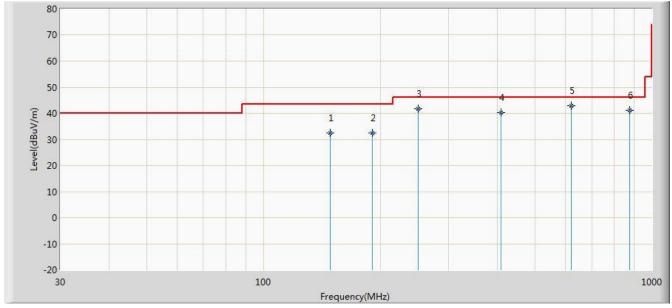


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6.3.4. Test Result of Radiated Emissions

Site: AC1	Time: 2015/11/21 - 18:35
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Milo Li
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal
EUT: Full HD Video Conferencing System	Power: AC 120V/60Hz
Note: Mode 4	



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			148.520	32.420	18.500	-11.080	43.500	13.920	QP
2			190.600	32.373	19.620	-11.127	43.500	12.754	QP
3			250.060	41.717	28.260	-4.283	46.000	13.457	QP
4			408.520	40.189	22.030	-5.811	46.000	18.159	QP
5		*	620.400	42.887	21.360	-3.113	46.000	21.527	QP
6			875.509	41.258	16.390	-4.742	46.000	24.868	QP

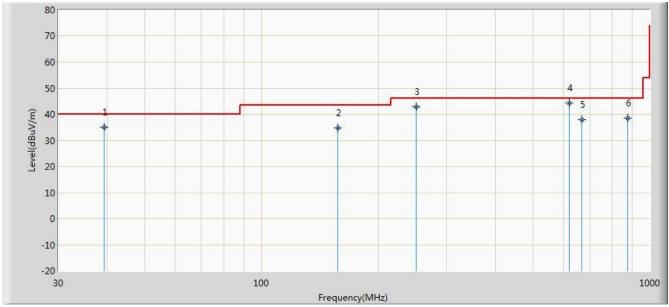
Note: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

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Site: AC1	Time: 2015/11/21 - 18:43
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Milo Li
Probe: VULB9162_0.03-8GHz	Polarity: Vertical
EUT: Full HD Video Conferencing System	Power: AC 120V/60Hz
Note: Mode 4	



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			39.410	35.115	21.090	-4.885	40.000	14.026	QP
2			157.210	34.739	21.070	-8.761	43.500	13.669	QP
3			250.300	42.971	29.300	-3.029	46.000	13.671	QP
4		*	621.400	44.443	22.900	-1.557	46.000	21.543	QP
5			667.300	37.947	15.930	-8.053	46.000	22.017	QP
6			875.090	38.655	14.200	-7.345	46.000	24.455	QP

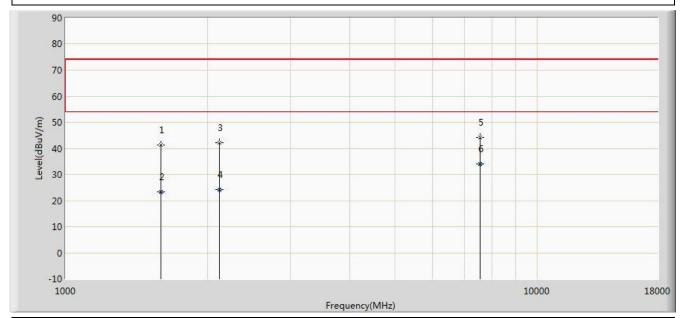
Note: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

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Site: AC1	Time: 2015/11/21 - 16:37
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Full HD Video Conferencing System	Power: AC 120V/60Hz
Note: Mode 4	·



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			1595.000	41.337	49.025	-32.663	74.000	-7.688	PK
2			1596.330	23.401	31.090	-30.599	54.000	-7.690	AV
3			2122.000	42.081	46.548	-31.919	74.000	-4.467	PK
4			2123.456	24.146	28.596	-29.854	54.000	-4.451	AV
5			7562.000	44.124	35.897	-29.876	74.000	8.227	PK
6		*	7563.576	33.918	25.693	-20.082	54.000	8.225	AV

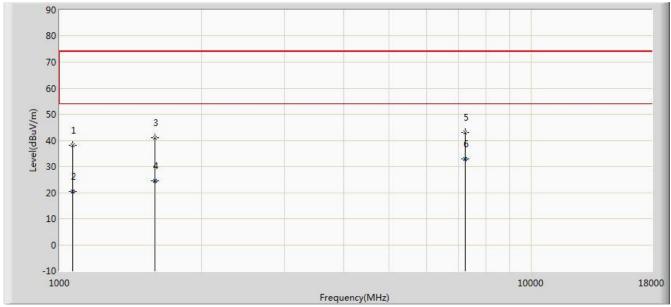
Note: Measure Level $(dB\mu V/m) = Reading Level (dB\mu V) + Factor (dB)$

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Site: AC1	Time: 2015/11/21 - 16:37
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Full HD Video Conferencing System	Power: AC 120V/60Hz
Note: Mode 4	



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			1068.000	38.139	48.909	-35.861	74.000	-10.770	PK
2			1068.832	20.296	31.055	-33.704	54.000	-10.759	AV
3			1595.000	41.092	48.780	-32.908	74.000	-7.688	PK
4			1596.325	24.398	32.087	-29.602	54.000	-7.690	AV
5			7239.000	43.054	35.230	-30.946	74.000	7.824	PK
6		*	7240.588	32.901	25.069	-21.099	54.000	7.832	AV

Note: Measure Level $(dB\mu V/m) = Reading Level (dB\mu V) + Factor (dB)$

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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7. CONCLUSION

The data collected relate only the item(s) tested and show that the **Full HD Video Conferencing**System FCC ID: YZZGVC3200 is in compliance with Part 15B of the FCC Rules.

The End