

EMI TEST REPORT

Ω n	Model	Name:	IP M	Inltime	dia	Phone
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Model Number: GXV3175

Brand Name: Grandstream

Prepared for Grandstream Networks, INC

FCC ID Number: YZZGXV3175-P

According to FCC 47 CFR Part 15, Subpart B

Test Report #: SHE-1212-10918-FCC

Tested by: Galanz Company Name

Reviewed by: <

Company Name Senior Engineer

QC Manager: **ECMG** Company Name QC Manager

Test Report Released by: January 9th, 2013 Date

Swall Zhang

Test Location

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

Test Site Location : Galanz

25 South Ronggui Rd., Shunde, Foshan, Guangdong, China

Tel : (86)-757-23612785

Fax : (86)-757-23612537

Test Facility

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

- CNAL LAB Code: L2244
- Galanz EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.
- FCC Registration No.: 580210 Galanz EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC was maintained in our files.

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List Attached Files

Exhibit Type	File Description	File Name
Test Report	Test Report	YZZGXV3175-P_Test report.pdf
Operation Description	Technical Description	YZZGXV3175-P_operation description.pdf
External Photos	External Photos	YZZGXV3175-P_External Photos.pdf
Internal Photos	Internal Photos	YZZGXV3175-P_Internal Photos.pdf
Block Diagram	Block Diagram	YZZGXV3175-P_Block Diagram.pdf
Schematics	Circuit Diagram	YZZGXV3175-P_Schematics.pdf
ID Label/Location	Label and Location	YZZGXV3175-P _Label & Location.pdf
User Manual	User Manual	YZZGXV3175-P_User Manual.pdf
Test setup photos	Test setup photos	YZZGXV3175-P_Test Setup Photos.pdf

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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 : IP Multimedia Phone

Model Numbers : GXV3175

Model Tested : GXV3175

Receipt Date : December 6th, 2012

Date Tested : December 6th to 26th, 2012

Applicant : Grandstream Networks, INC

Address 5F, Bldg #1, No.2 Kefa Rd., Science &

Technology Park, Shenzhen, China

Telephone : (86)-755-26014600

Fax : (86)-755-26014601

Manufacturer : Grandstream Networks, INC

Address 5F, Bldg #1, No.2 Kefa Rd., Science &

Technology Park, Shenzhen, China

Telephone : (86)-755-26014600

Fax : (86)-755-26014601

Factory : Grandstream Networks, INC

Address 5F, Bldg #1, No.2 Kefa Rd., Science &

Technology Park, Shenzhen, China

Telephone : (86)-755-26014600

Fax : (86)-755-26014601

EUT Description

Grandstream Networks, INC., model tested GXV3175 (referred to as the EUT in this report) is an IP Multimedia Phone.

Technical specifications of the EUT are as below:

Parameter		Range
Basic	Rated voltage	12VDC
parameters	Rated Current	1.5A
	Home Button	Press Home button to navigate to main screen
	Camera	1.3M pixel adjustable CMOS camera with privacy shutter
	PC Ethernet Port	10/100Mbps RJ-45 port connecting to PC
	Network Ethernet Port	10/100Mbps RJ-45 port connecting to Ethernet
I/O Ports	Power Jack	12V DC Power connector port
	RJ11 Jack	Phone handset connector port
	Camera Adjust Wheel	Scroll the wheel to turn on/off the camera; Adjust the camera position and lens angle
	Stylus	Stylus for touch screen (optional)
	USB Port	USB devices may be connected via the USB port. For example, you can connect a USB flash drive to save captured pictures and plug in USB keyboard or mouse for the built-in web browser
	SD Card Slot	SD card could be inserted in for picture/music/video files storage
	HDMI	High-Definition Multimedia Interface
	Headset Jack	3.5mm stereo headset connector port
Power	Input	100-240VAC 50/60Hz 0.4A
	Output	12 VDC, 1.5A,
Adapter	Model	SFF1200150A1BB
	Brand name	Mass

NOTE: For more detailed informations or features please refer to user's manual of EUT.

Test Summary

The Electromagnetic Compatibility requirements on model GXV3175 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 -2003	Conducted Emission	Passed	AC Input Port	Attachment 1		
FCC Part 15.109 ANSI C63.4 -2003	Radiated Emission	Passed	Enclosure	Attachment 2		

Test Mode Justification

Pre-scan has been conducted to determine the worst-case modes from all possible combinations between available operational modes, the following modes were chosen for the final test as described below.

IP Call mode:

Connected the EUT to another an IP Phone by an RJ-45 cable and established a video call communication between them. Then connected a notebook PC to PC port of the EUT by another an RJ-45 cable and ping "192.168.0.160 -t" to EUT and measured it.

For PoE Mode:

Removed AC Adaptor of EUT, Let EUT powered by PoE mode and measu red it.

EUT Exercise Software

No test sofware 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). Test personnel.



EUT- Front View



EUT -Rear View



EUT Uncovered View #1



EUT Uncovered View #2



Mainboard -Front View



Mainboard -Rear View



Power Adaptor View (Manufacturer: Mass Power)

Test System Details

EUT

Model Number:

GXV3175

Model Tested:

GXV3175

Description:

IP Multimedia Phone

Input:

DC12V

Manufacturer:

Grandstream Networks, INC

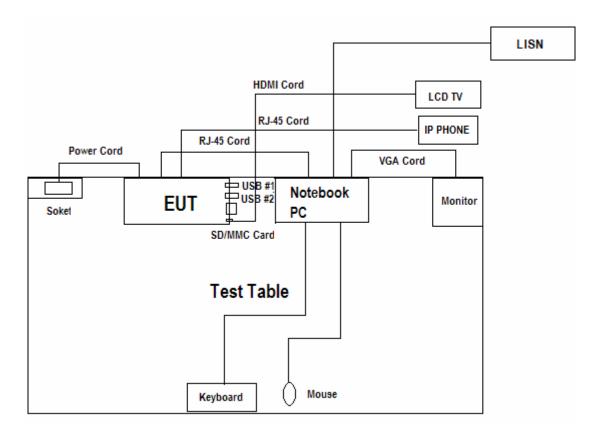
Support Equipment						
Description	Model Number	Serial Number	Manufacturer			
Notebook PC	NC4000	CNU4122BCL	HP			
Power Adapter Of Notebook PC	PPP009H	239427-003	HP			
Mouse	MO32B0	23-033131	HP			
Keyboard	SK-1788	N/A	LENOVO			
Monitor	177V+	N/A	AOC			
LCD TV	KLV-32BX320	N/A	SONY			
Power Over Ethernet Adapter base unit	DWL-P200	E405162001002	D-Link			
PoE Power Adaptor	FJ-SW2545XY	2004010807120622	FUJIA			

Continue on to next page...

Description	From	То	Length (Meters)	Shielded (Y/N)	Ferrite (Y/N)
Adapter Cord Of	Power Adapter	Notebook PC	1.6	N	Y
Notebook	Power Adapter	AC Plug	1.2	N	Y
Mouse Cord	Mouse	Plug	1.2	N	Υ
Keyboard Cord	keyboard	Plug	1.2	N	Y
VGA Cable	Monitor	Notebook	1.2	Y	Y
RJ-45 Cord #1	EUT	Notebook PC	1.5	N	N
RJ-45 Cord #2	EUT	Another IP Multimedia Phone	>3.0	N	N
HDMI Cable	EUT	LCD TV	1.2	Y	Y
Headphone Cable	EUT	Headphone	1.2	N	N
PoE power Cable	PoE	Plug	1.6	N	Y
Power Adapter cord of EUT	EUT	Plug	2.4	N	N

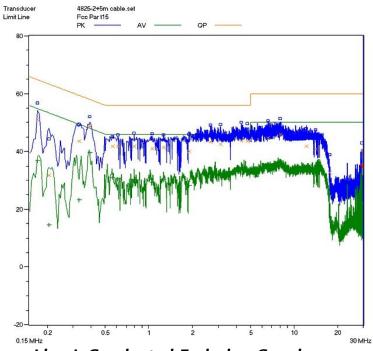
NOTE: The EUT has been tested as an independent unit together with other necessary accessories or support units. The above support units or accessories were used to form a representative test configuration during the test tests.

Configuration of Tested System

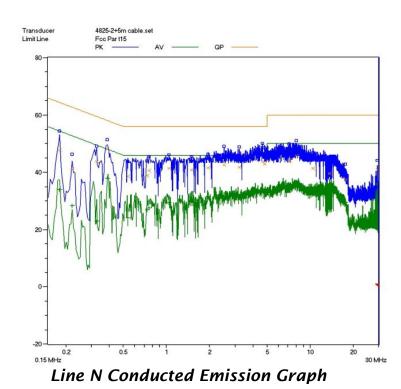


ATTACHMENT 1 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	Grandstream Networks, INC	TEST STANDERD:	FCC Part 15, Subpart B, Section 15.107		
MODEL NUMBERS:	GXV3175 PRODUCT :		IP Multimedia Phone		
MODEL TESTED:	GXV3175	EUT DESIGNATION:	Home or Office		
TEMPERATURE:	23°C	HUMIDITY:	51%		
ATM PRESSURE:	103kPa	GROUNDING:	None		
TESTED BY:	Daomen	DATE OF TEST:	December 7 th , 2012		
TEST REFERENCE:	ANSI C63.4- 2003				
TEST PROCEDURE:	The EUT was set up according to the guidelines of ANSI C63.4- 2003 for conduc ted emissions. The measurement was using a AMN on each line and an EMI recei ver 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.				
DESCRIPTION OF TEST MODE	IP Call mode				
TEST SET UP	Support stand 80cm LISN 80cm Ground plane Testreceive				
TESTED RANGE:	150kHz to 30MHz				
TEST VOLTAGE:	AC 120V/60Hz				
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:	Freq. ± 2x10 ⁻⁷ x Center Freq.,	Amp ± 2.6 dB			



Line L Conducted Emission Graph



FCC Test Report #: SHE-1212-10918-FCC Prepared for Grandstream Networks, INC Prepared by ECMG Electronic Technical Testing Corp (Shenzhen)

Test Data:

Lines (L/N)	Frequency (MHz)	Corrected QP Level (dBuV)	Limits QP (dBuV)	Margin QP (dB)	Frequency (MHz)	Corrected AV Level (dBuV)	Limits AV (dBuV)	Margin QP (dB)
L	0.170	51.1	64.9	-13.8	0.170	36.9	54.9	-18.0
L	0.390	48.0	58.0	-10.0	0.390	39.7	48.0	-8.3
L	7.890	45.9	60.0	-14.1	7.890	36.6	50.0	-13.4
N	0.180	47.8	64.4	-16.6	0.180	33.9	54.4	-20.5
N	0.385	48.1	58.2	-10.1	0.385	37.8	48.2	-10.4
N	7.995	45.7	60.0	-14.3	7.995	36.6	50.0	-13.4

- 1) All readings are using a bandwidth of 9 kHz, with a 500 ms sweep time. A video filter was not use.
- 2) "QP" means "Quasi-Peak" values, "AV" means "Average" values.
- 3) The other reading are too low against official limits that are not be recorded.

Test Equipment List:

Test Equipment	Model No.	Manufacturer	Serial No.	Last Cal.	Cal. Interval
Receiver	SMR4503	SCHAFFNER	11725	2012.07.08	2013.07.08
Line impedance stabilization network	4825/2	ETS	1161	2012.07.08	2013.07.08

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

TESTED	BY:	Laomen	Galanz
		ENGINEER	COMPANY NAME

REVIEWED BY: ECMG
SENIOR ENGINEER COMPANY NAME

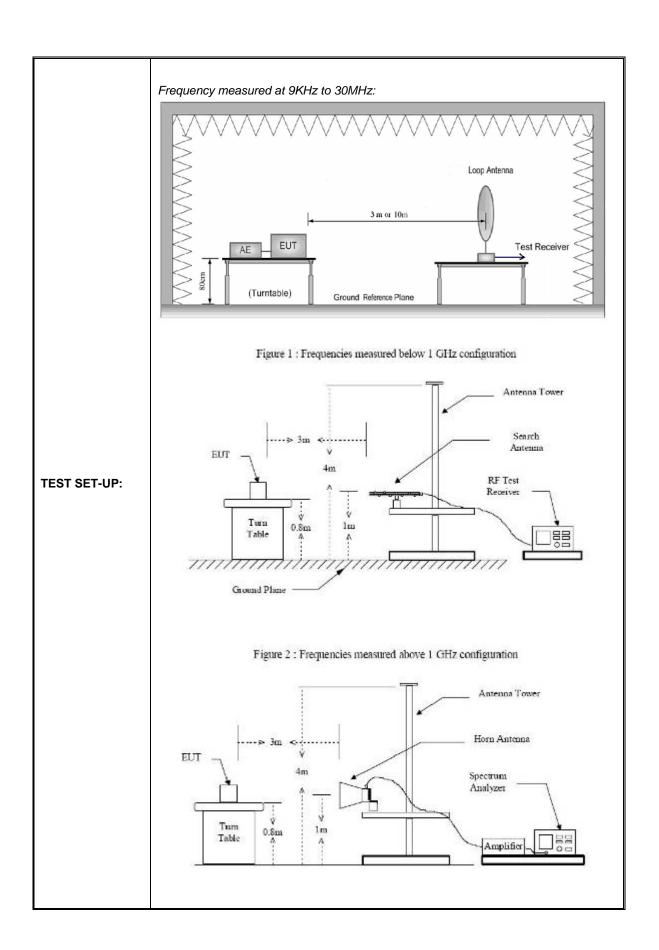


Conducted Emission Test Set-up

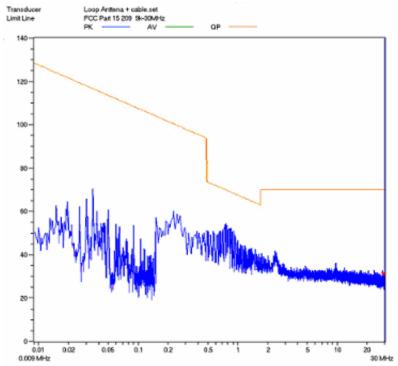
ATTACHMENT 2 - RADIATED EMISSION MEASUREMENT

CLIENT: G	Grandstream Networks, INC TEST STANDERD: FCC Part 15,Subpa Section 15.109		FCC Part 15,Subpart B, Section 15.109		
MODEL NUMBERS: G	XV3175	PRODUCT:	IP Multimedia Phone		
EUT MODEL: G	XV3175	EUT DESIGNATION:	Home or Office		
TEMPERATURE: 23	3°C	HUMIDITY:	49%RH		
ATM PRESSURE: 10	03.0kPa	GROUNDING:	None		
TESTED BY: Da	aomen	DATE OF TEST:	December 7 th , 2012		
TEST REFERENCE: A	NSI C63.4- 2003				
er ra ar fre	The EUT was set up according to the guidelines of ANSI C63.4- 2003 for emissions. An EMI receiver peak scan was made at the frequency meas range (pre-scan) in an Anechoic chamber.signal discrimination was then peand the significant peaks marked.these peaks were then quasi-peaked frequency range of 30 MHz to 1GHz and average and peak in the frequency of 1GHz to 3GHz at an anechoic chamber.		frequency measurement ation was then performed nen quasi-peaked in the		
CC	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	FS= RA + AF + CF - AG				
W	Where: FS = Field Strength				
R	RA = Receiver Amplitude				
Al	AF = Antenna Factor				
C	CF = Cable Attenuation Factor				
A	AG = Amplifier Gain				
TEST MODE IP	IP Call mode,PoE mode				
TESTED RANGE: 9H	9K-30MHz and 30MHz to 8GHz				
TEST VOLTAGE: A	AC 120V/60Hz				
	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 TH	There were no modifications installed by ECMG Electronic Technical Testing Corp (Shenzhen). Test personnel.				
MODIFICATIONS: (S		D by ECINIC Electronic	reclinical results corp		

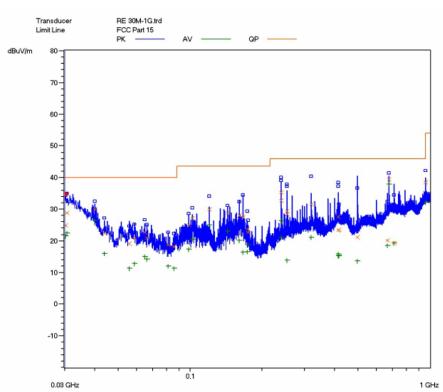
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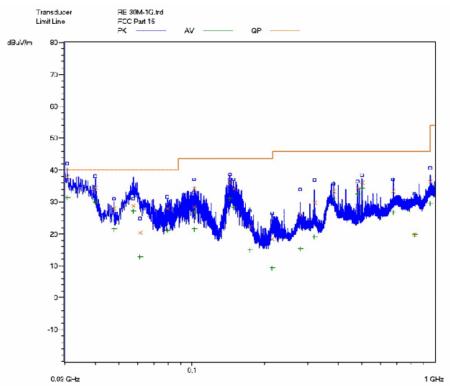
For IP Call Mode:



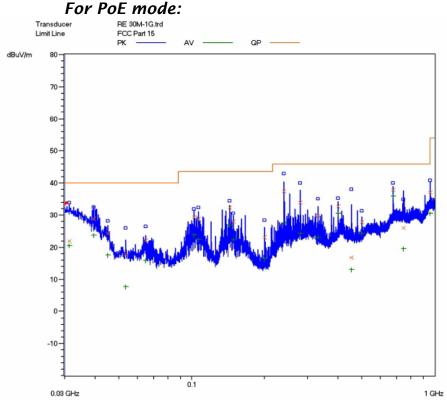
Radiated Filed Strength Emission Test Plot(9KHz-30MHz)



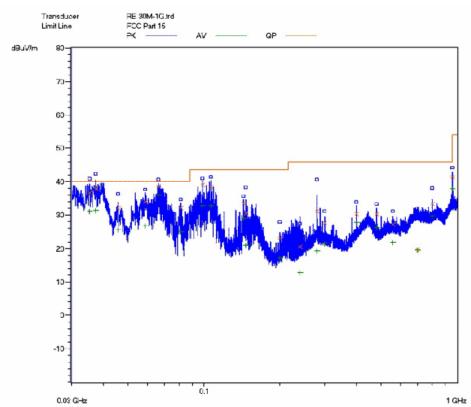
Horizontal:Radiated Emission Test Plot(30MHz-1000MHz)



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



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



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

Test Data:

IP Call mode/9KHz to 30MHz:

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

- 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 + Antenna Factor + Cable Loss.
- 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.

IP Call Mode/Below 1GHz:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB)	Preamp Factor (dB)	Reading Level QP (dBuV/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)			
	Horizontal									
30.240	0.02	16.8	/	8.08	24.9	40.0	-15.1			
58.640	0.02	5.5	/	15.18	20.7	40.0	-19.3			
98.480	0.02	7.7	/	17.28	25.0	43.5	-18.5			
174.960	0.02	7.8	/	14.98	22.8	43.5	-20.7			
414.720	0.20	15.3	/	7.9	23.4	46.0	-22.6			
960.000	0.44	23.9	/	14.16	38.5	46.0	-7.5			
			Ver	tical						
47.840	0.02	10.1	/	17.88	28.0	40.0	-12.0			
61.280	0.02	5.6	/	14.68	20.3	40.0	-19.7			
213.440	0.12	7.9	/	10.38	18.4	43.5	-25.1			
280.080	0.15	13.2	/	12.45	25.8	46.0	-20.2			
320.080	0.16	13.4	/	16.14	29.7	46.0	-16.3			
671.920	0.36	20.1	/	12.94	33.4	46.0	-12.6			

- 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.

IP Call Mode/Above 1GHz:

Frequency (GHz)	Cable Loss (dB)	Antenna Factor (dB)	Preamp Factor (dB)	Reading Level (dBuV/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polarizat ion (H/V)		
	Peak Measurement									
1.660	1.82	27.3	33.0	1.92	60.2	74	-13.8	Н		
2.320	2.25	29.2	33.0	6.99	57.46	74	-16.54	Н		
3.320	2.61	32.0	32.1	14.23	52.48	74	-21.52	Н		
1.630	1.82	27.3	33.0	2.98	65.1	74	-8.9	V		
2.205	2.15	28.6	33.0	5.99	57.76	74	-16.24	V		
2.315	2.25	29.2	33.0	7.93	56.52	74	-17.48	V		
			Averag	e Measu	rement					
1.660	1.82	27.3	33.0	13.02	49.1	54	-4.9	Н		
2.320	2.25	29.2	33.0	21.55	42.9	54	-11.1	Н		
3.320	2.61	32.0	32.1	23.31	43.4	54	-10.6	Н		
1.630	1.82	27.3	33.0	13.22	48.9	54	-5.1	V		
2.205	2.15	28.6	33.0	21.65	42.1	54	-11.9	V		
2.315	2.25	29.2	33.0	20.05	44.4	54	-9.6	V		

- 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.

PoE Mode/Below 1GHz:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB)	Preamp Factor (dB)	Reading Level QP (dBuV/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)			
	Horizontal									
31.280	0.02	17.0	/	4.88	21.9	40.0	-18.1			
64.800	0.02	5.1	/	17.08	22.2	40.0	-17.8			
148.080	0.12	8.6	/	19.38	28.1	43.5	-15.4			
280.000	0.15	13.2	/	20.65	34.0	46.0	-12.0			
672.000	0.36	20.1	/	17.54	38.0	46.0	-8.0			
960.000	0.44	23.9	/	12.86	37.2	46.0	-8.8			
			Ver	tical						
35.280	0.02	18.2	/	18.48	36.7	40.0	-3.3			
45.760	0.02	12.9	/	19.28	32.2	40.0	-7.8			
146.640	0.02	8.3	/	22.08	30.4	43.5	-13.1			
279.920	0.15	13.2	/	17.95	31.3	46.0	-14.7			
480.000	0.20	17.5	/	12.80	30.5	46.0	-15.5			
800.000	0.39	22.2	/	10.71	33.3	46.0	-12.7			

- 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 (GHz)	Cable Loss (dB)	Antenna Factor (dB)	Preamp Factor (dB)	Reading Level (dBuV/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polarizat ion (H/V)		
	Peak Measurement									
1.460	1.71	25.2	33.6	19.38	41.13	74	-32.87	Н		
1.656	1.82	27.3	33.0	2.08	64.2	74	-9.8	Н		
1.990	1.98	27.8	33.0	14	48.78	74	-25.22	Н		
1.627	1.79	27.0	33.0	1.29	60.5	74	-13.5	V		
1.635	1.79	27.0	33.0	0.59	61.2	74	-12.8	V		
1.665	1.82	27.3	33.0	0.18	62.3	74	-11.7	V		
			Avera	ge Meas	urement					
1.460	1.71	25.2	33.6	29.08	31.43	54	-22.57	Н		
1.656	1.82	27.3	33.0	13.02	49.1	54	-4.9	Н		
1.990	1.98	27.8	33.0	29.65	33.13	54	-20.87	Н		
1.627	1.79	27.0	33.0	13.09	48.7	54	-5.3	V		
1.635	1.79	27.0	33.0	12.49	49.3	54	-4.7	V		
1.665	1.82	27.3	33.0	13.42	48.7	54	-5.3	V		

- 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	Model No.	Manufacturer	Serial No.	Last Cal.	Cal. Due
Receiver	SMR4503	SCHAFFNER	11725	2012.07.08	2013.07.07
HF Loop Antenna	HLA6120	TESEQ	26348	2012.09.27	2013.09.26
Double-ridged Wave guide horn	3115	ETS	6587	2012.08.02	2013.08.01
Microwave system amplifier	83017A	Agilent	MY39500438	2012.07.11	2013.07.10
Biconilog Antenna	3142C	ETS	00042672	2012.09.28	2013.09.27
Band-pass Filter	BRM50702	Micro-Tronic	S/N-030	2012.11.30	2013.11.29
Spectrum Analyzer	FSP30	R&S	100755	2012.11.30	2013.11.29

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

TESTED	BY:	Daomen	Galanz
		ENGINEER	COMPANY NAME
		SENIOR ENCINEER	
REVIEWI	ED BY		<u>ECMG</u>
		SENIOR ENGINEER	COMPANY NAME



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



Radiated Emission Test Set-up (Below 1GHz)



Radiated Emission Test Set-up (Above 1GHz)