

EMI TEST REPORT

On Model Name: Analog Telephone Adapter
Model Number: HT503
Brand Name: Grandstream
Prepared for Grandstream Networks, INC
FCC ID Number: YZZHT503V2
According to FCC 47 CFR Part 15, Subpart B
Test Report #: SHE-1308-11040-FCC
Tested by: Galanz Daomen /Engineer Company Name
Reviewed by: ECMG
Jawen Yin/ Senior Engineer Company Name
QC Manager: ECMG
Swall Zhang/QC Manager Company Name
Test Report Released by: Swall Thank September 13, 2013

Swall Zhang

Date

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 CN AL/AC01:2002 accreditation criteria for testing laboratories (identic al 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	YZZHT503V2_Test report.pdf
Operation Description	Technical Description	YZZHT503V2_operation description.pdf
External Photos	External Photos	YZZHT503V2_External Photos
Internal Photos	Internal Photos	YZZHT503V2_Internal Photos
Block Diagram	Block Diagram	YZZHT503V2_Block Diagram.pdf
Schematics	Circuit Diagram	YZZHT503V2_Schematics.pdf
ID Label/Location	Label and Location	YZZHT503V2_Label & Location.pdf
User Manual	User Manual	YZZHT503V2 _User Manual.pdf
Test set-up photos	Test set-up photos	YZZHT503V2 _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 : Analog Telephone Adapter

Model Numbers : HT503

Model Tested : HT503

Receipt Date : September 6th, 2013

Date Tested : September 11st, 2013

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 HT503 (referred to as the EUT in this report) is an Analog Telephone Adapter.

Technical specifications of the EUT are as below:

Parameter	·	Range		
Basic Rated voltage		12VDC		
parameters	Rated Current	0.5A		
	Power Cable	Power adapter connection		
	WAN Port (RJ-45)	Connect the WAN port to the internal LAN network or router.		
I/O Ports	LAN Port (RJ-45)	Connect the LAN port with an Ethernet cable to your PC.		
1,01010	RESET	Factory Reset button. Press for 7 seconds to reset factory default settings.		
	PHONE (RJ-11)	FXS port to be connected to analog phones / fax machines.		
LINE (RJ-11)		FXO port should be connected to the PSTN line.		
	Input	100-240VAC 50/60Hz 0.15A		
Power Adapter	Output	12VDC,0.5A,		
#1	Model	WCF1200050A1BA		
	Brand name	Mass power		
	Input	100-240VAC 50/60Hz 0.2A		
Power Adapter	Output	12VDC,0.5A		
#2	Model	UE06L8-120050SPAU		
	Brand name	UE		

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

Test Summary

The Electromagnetic Compatibility requirements on model HT503 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 operation modes. IP call modes was chosen for the final test as described below.

IP Call mode:

Connected LAN port and FXS port of the EUT to an IP phone and a telephone by an RJ-45 cord and RJ-11 cord and established an call link between them, then connected PC port of the EUT to a notebook PC and ping "192.168.0.160 -t" to EUT and measured 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 Sample Photos for model HT503



EUT- Front View

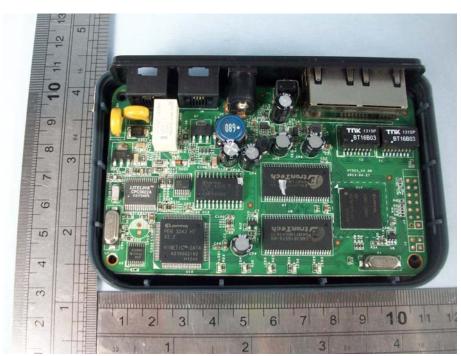


EUT- Rear View

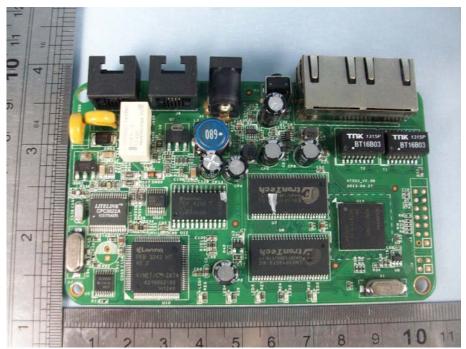
FCC Test Report #: SHE-1308-11040-FCC Prepared for Grandstream Networks, INC Prepared by ECMG Electronic Technical Testing Corp (Shenzhen)



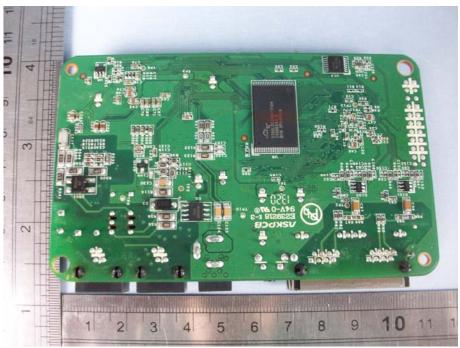
EUT -I/O Ports View



EUT-Uncovered View



Main board- Top View



Main board- Bottom View



Power Adaptor #1 View (Manufacturer: Mass Power)



Power Adaptor #2 View (Manufacturer: UE power)

Test System Details

		EUT	
Model Number:	HT503		
Model Tested:	HT503		
Description:	Analog Telephone Ada	pter	
Input:	AC 120V/60Hz		
Manufacturer:	Grandstream Network	s, INC	
	Suppo	rt Equipment	
Description	Model Number	Serial Number	Manufacturer
Notebook PC	ThinkPad X121e		Lenovo
Adapter Of Notebook PC	ThinkPad 57Y4614		Lenovo
Mouse	MO32B0	23-033131	IBM
Keyboard	SK-1788		Lenovo
Monitor	TFT1780PS	B8879HA021638	AOC
IP phone	GXP2100		Grandstream
Telephone	HCD129P/ TSDL 2953		DAERXUN

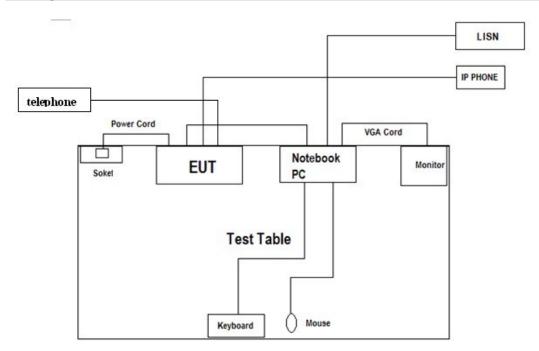
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	Cable	e Description			
Description	From	То	Length (Meters)	Shielded (Y/N)	Ferrite (Y/N)
Power Cord Of	Adapter	Notebook PC	1.6	N	Y
Notebook PC	Adapter	Plug	1.2	N	Υ
Mouse cord	Mouse	Plug	1.2	N	Y
Keyboard cord	Keyboard	Plug	1.2	N	Y
VGA Cord	Monitor	PC	1.2	Y	Y
RJ-45 Cord #1	EUT	Notebook PC	1.5	N	N
RJ-45 Cord #2	EUT	IP Phone	>3.0	N	N
Power Adapter #1 cord of EUT	EUT	Plug	1.8	N	٨
Power Adapter #2 cord of EUT	EUT	Plug	1.8	N	N

Note:The "EUT" means "Analog Telephone Adapter".

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.

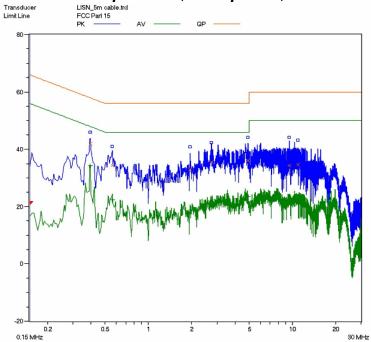
Configuration of Tested System



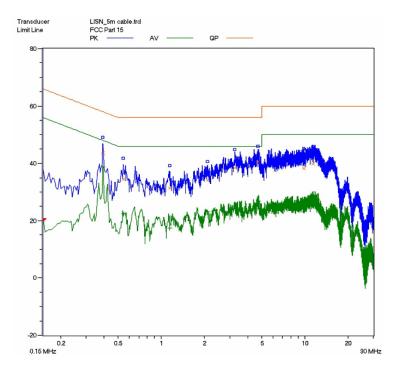
ATTACHMENT 1 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	Grandstream Networks, INC	TEST STANDERD:	FCC Part 15, Subpart B, Section 15.107	
MODEL NUMBERS:	HT503	PRODUCT:	Analog Telephone Adapter	
MODEL TESTED:	HT503	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	23°C	HUMIDITY:	51%	
ATM PRESSURE:	103kPa	GROUNDING:	None	
TESTED BY:	Daomen	DATE OF TEST:	September 11 st ,2013	
TEST REFERENCE:	ANSI C63.4 -2003			
TEST PROCEDURE:	The EUT was set up according to the guidelines of ANSI C63.4 -2003 for conduct ed 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 si gnificant 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	EUT & Support stand 80cm Testreceive	Ground plan	ne	
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 in (Shenzhen). test personnel.	stalled by ECMG Electronic	Technical Testing Corp	
M. UNCERTAINTY:	Freq. ± 2x10 ⁻⁷ x Center Freq.,	Amp ± 2.6 dB		

Power Adaptor #1:(Mass power)

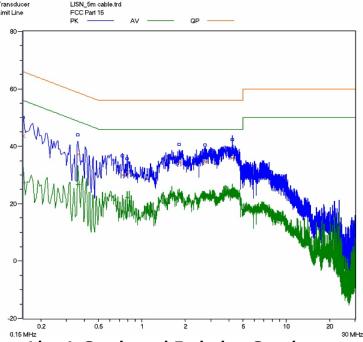


Line L Conducted Emission Graph

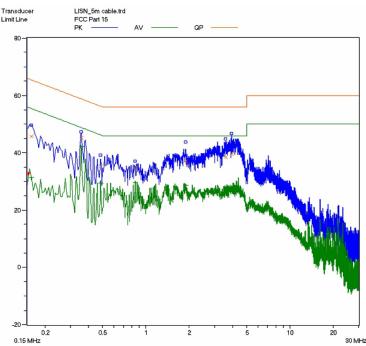


Line N Conducted Emission Graph

Power Adaptor #2:(UE power)



Line L Conducted Emission Graph



Line N Conducted Emission Graph

Test Data:

Power Adaptor #1 (Mass power)

Lines (L/N)	Frequency (MHz)	Correcte d QP Level (dBuV)	Limits QP (dBuV)	Margin QP (dB)	Frequenc y (MHz)	Correcte d AV Level (dBuV)	Limits AV (dBuV)	Margin QP (dB)
L	0.395	41.9	58	-16.1	0.395	34.3	48	-13.7
L	0.560	34.4	56	-21.6	0.560	22.3	46	-23.7
L	1.950	32.9	56	-23.1	1.950	18.7	46	-27.3
N	0.390	43.5	58.1	-14.6	0.390	38.6	48.1	-9.5
N	0.545	34.6	56	-21.4	0.545	22.5	46	-23.5
N	1.150	31.6	56	-24.4	1.150	17.4	46	-28.6

Note:

- 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.

Power Adaptor #2(UE power)

Lines (L/N)	Frequency (MHz)	Correcte d QP Level (dBuV)	Limits QP (dBuV)	Margin QP (dB)	Frequenc y (MHz)	Correcte d AV Level (dBuV)	Limits AV (dBuV)	Margin QP (dB)
L	0.150	43.6	66	-22.4	0.150	27.3	56	-28.7
L	0.360	37.3	58.7	-21.4	0.360	26.6	48.7	-22.1
L	0.730	30.0	56	-26	0.730	17.1	46	-28.9
N	0.160	45.7	65.5	-19.8	0.160	31.3	55.5	-24.2
N	0.355	45.3	58.8	-13.5	0.355	42.3	48.8	-6.5
N	0.485	35.3	56.3	-21	0.485	29.4	46.3	-16.9

- 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	2013.07.08	2014.07.08
Line impedance stabilization network	4825/2	ETS	1161	2013.07.08	2014.07.08

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

TESTED	BY:	Daomen	GALANZ
		ENGINEER	COMPANY NAME
		: Jamemym : SENIOR ENGINEER	
REVIEWE	ED BY	0	ECMG
		SENIOR ENGINEER	COMPANY NAME



Conducted Emission Test Set-up -front view

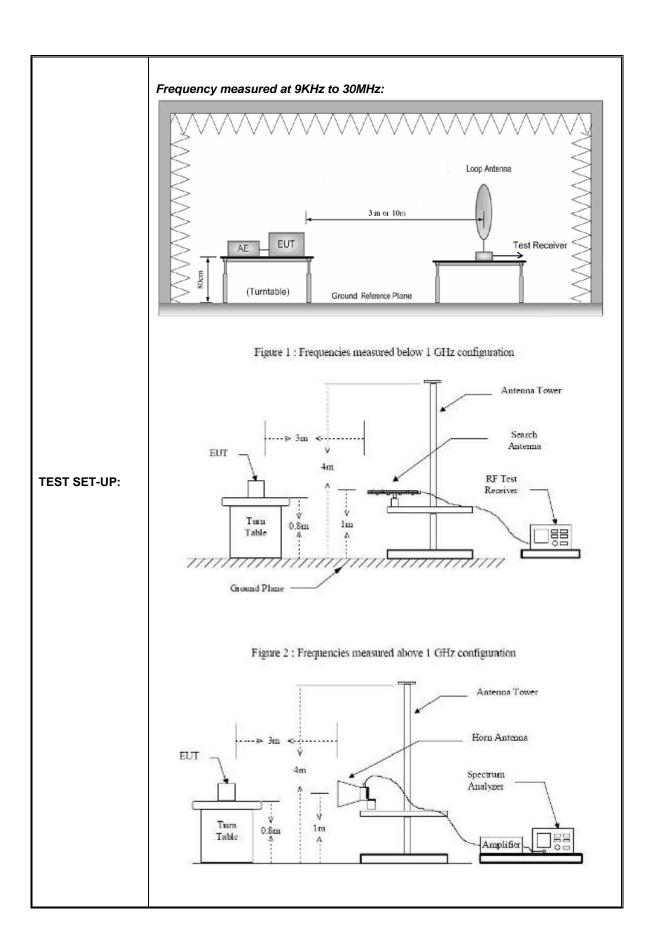


Conducted Emission Test Set-up -rear view

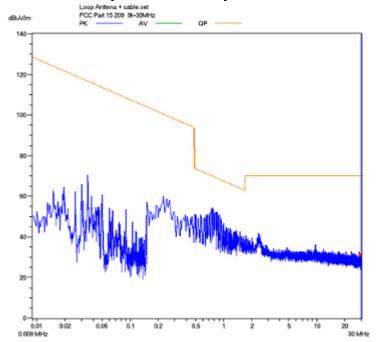
ATTACHMENT 2 - RADIATED EMISSION MEASUREMENT

			FCC Part 15,Subpart B,			
CLIENT:	Grandstream Networks, INC	TEST STANDERD:	Section 15.109			
MODEL NUMBERS:	HT503	PRODUCT:	Analog Telephone Adapter			
EUT MODEL:	HT503	EUT DESIGNATION:	Home or Office			
TEMPERATURE:	23°C	HUMIDITY:	49%RH			
ATM PRESSURE:	103.0kPa	GROUNDING:	None			
TESTED BY:	Daomen	DATE OF TEST:	September 11 st , 2013			
TEST REFERENCE:	ANSI C63.4 -2003					
The EUT was set up according to the guidelemissions. An EMI receiver peak scan was range (pre-scan) in an Anechoic chamber.sig and the significant peaks marked.these peakency range of 30 MHz to 1GHz and average GHz to 5GHz at an anechoic chamber. The following data lists the significant emissions.			frequency measurement ation was then performed quasi-peaked in the frequ the frequency range of 1 as, measured levels, corre			
TEST PROCEDURE:	ction 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	IP Call Mode					
TESTED RANGE:	9K-30MHz and 30MHz to 5GHz					
TEST VOLTAGE:	AC 120V/60Hz					
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:	Freq. ± 2x10 ⁻⁷ x Center Freq., A	mp ± 2.6 dB				

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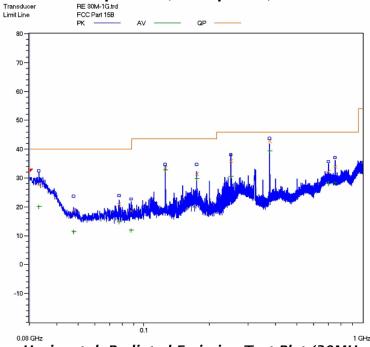


Power Adaptor #1 (Mass power)

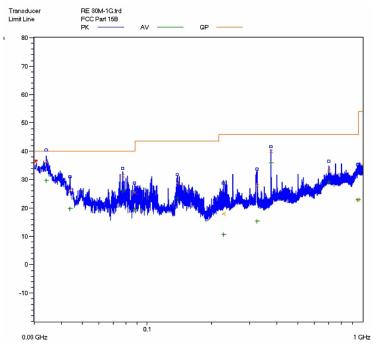


Radiated Filed Strength Emission Test Plot(9KHz-30MHz)

Power Adaptor #1 (Mass power)

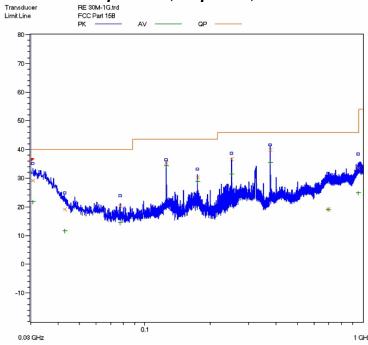


Horizontal: Radiated Emission Test Plot (30MHz-1000MHz)

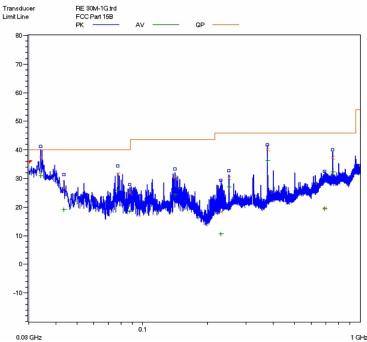


Vertical: Radiated Emission Test Plot (30MHz-1000MHz)





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	/	/	/	/	/	/	/

- 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. For band in 9KHz to 30MHz,Pre-scan has been conducted to determine the worst-case from power apaptor #1 and apaptor #2. Apaptor #1 was selected for the fina testing.
- 3. 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.
- 4. All emission levels in the frequency range of 9KHz to 30MHz are 20dB below the official limits that are not reported.

Test Data:
Power Adaptor #1 (Mass power):
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									
124.980	0.02	6.3	/	27.18	33.5	43.5	-10.0		
175.020	0.02	7.8	/	23.68	31.5	43.5	-12.0		
249.960	0.12	11.8	/	24.08	36.0	46	-10.0		
375.000	0.16	13.8	/	28.74	42.7	46	-3.3		
700.020	0.36	20.4	/	11.54	32.3	46	-13.7		
750.000	0.39	21.1	/	12.51	34.0	46	-12.0		
			Ver	tical					
34.080	0.02	17.9	/	18.48	36.4	40	-3.6		
77.220	0.02	5.3	/	26.08	31.4	40	-8.6		
138.420	0.02	7.8	/	21.08	28.9	43.5	-14.6		
375.000	0.16	13.8	/	26.14	40.1	46	-5.9		
700.020	0.36	20.4	/	12.44	33.2	46	-12.8		
951.240	0.44	24	/	-1.54	22.9	46	-23.1		

- 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)	Margi n (dB)	Antenna Polariza tion (H/V)
Peak Measurement								
1.000	1.39	23.9	33.6	-3.63	55.26	74	-18.74	Н
1.330	1.58	24.7	33.6	-6.72	53.16	74	-20.84	Н
1.520	1.71	26.8	33.6	-11.39	50.72	74	-23.28	Н
1.326	1.58	24.7	33.6	-8.76	51.12	74	-22.88	V
2.400	2.3	29.3	33	-15.89	48.71	74	-25.29	V
1.858	1.93	27.5	33.6	-7.4	55.63	74	-18.37	V
		A	verage	Measure	ement			
1.329	1.58	24.7	33.6	-22.68	37.20	54	-16.80	Н
1.331	1.58	24.7	33.6	-24.75	35.13	54	-18.87	Н
1.855	1.93	27.5	33.6	-26.03	37.00	54	-17.00	Н
1.326	1.58	24.7	33.6	-21.59	38.29	54	-15.71	V
2.400	2.3	29.3	33	-31.5	33.10	54	-20.90	V
1.858	1.93	27.5	33.6	-30.92	32.11	54	-21.89	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.

Power Adaptor #2(UE power): 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									
30.720	0.02	16.7	/	12.48	29.2	40	-10.8		
125.040	0.02	6.9	/	28.38	35.3	43.5	-8.2		
175.040	0.02	7.8	/	22.58	30.4	43.5	-13.1		
250.000	0.12	11.8	/	24.78	36.7	46	-9.3		
374.960	0.16	13.7	/	26.04	39.9	46	-6.1		
954.240	0.44	24	/	9.16	33.6	46	-12.4		
			Ver	tical					
34.080	0.02	17.9	/	19.58	37.5	40	-2.5		
43.520	0.02	13.9	/	12.78	26.7	40	-13.3		
77.200	0.02	5.3	/	26.28	31.6	40	-8.4		
250.000	0.12	11.8	/	18.18	30.1	46	-15.9		
374.960	0.16	13.7	/	26.34	40.2	46	-5.8		
750.000	0.39	21.1	/	15.91	37.4	46	-8.6		

- 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:

Frequenc y (GHz)	Cable Loss	Antenna Factor	Preamp Factor	Reading Level	Emission Level	Limit (dBuV/m)	Margin (dB)	Antenna Polarizati		
y (G/12)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(ubu v / III)	(UD)	on (H/V)		
	Peak Measurement									
1.000	1.39	23.9	33.6	-2.09	56.80	74	-17.20	Н		
1.330	1.58	24.7	33.6	-4.67	55.21	74	-18.79	Н		
1.520	1.71	26.8	33.6	-4.94	57.17	74	-16.83	Н		
1.326	1.58	24.7	33.6	-5.99	53.89	74	-20.11	V		
2.400	2.3	29.3	33	-14.47	50.13	74	-23.87	V		
1.858	1.93	27.5	33.6	-10.26	52.77	74	-21.23	V		
			Averag	e Measu	irement					
1.329	1.58	24.7	33.6	-24.19	35.69	54	-18.31	Н		
1.331	1.58	24.7	33.6	-23.16	36.72	54	-17.28	Н		
1.855	1.93	27.5	33.6	-29.82	33.21	54	-20.79	Н		
1.326	1.58	24.7	33.6	-24.22	35.66	54	-18.34	V		
2.400	2.3	29.3	33	-31.85	32.75	54	-21.25	V		
1.858	1.93	27.5	33.6	-26.93	36.10	54	-17.90	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	2013.07.08	2014.07.07
HF Loop Antenna	HLA6120	TESEQ	26348	2013.09.27	2014.09.26
Double-ridged Wave guide horn	3115	ETS	6587	2013.08.02	2014.08.01
Microwave system amplifier	83017A	Agilent	MY39500438	2013.07.11	2014.07.10
Biconilog Antenna	3142C	ETS	00042672	2013.09.28	2014.09.27
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.

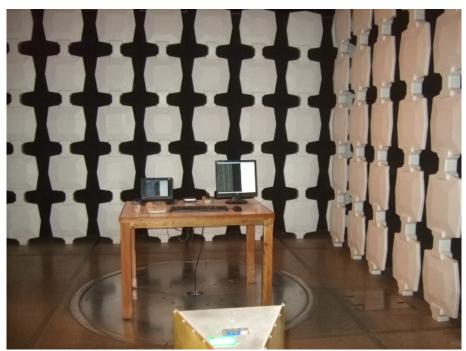
TESTED	BY:	Saomen	GALANZ		
		ENGINEER	COMPANY NAME		
		Janenym			
REVIEWE	ED BY	0	ECMG		
		SENIOR ENGINEER	COMPANY NAME		



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



Radiated Emission Test Set-up (Below 1GHz)



Radiated Emission Test Set-up (Above 1GHz)