



EMC TEST REPORT FCC 47 CFR Part 15B Industry Canada RSS-Gen Electromagnetic compatibility - Unintentional radiators	
Report Reference No.	G0M-1202-1776-EF01-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	<div style="display: flex; justify-content: center; align-items: center;">   </div> <p style="text-align: center; margin-top: 5px;"> A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC OATS Filing assigned code: 3470A </p>
Applicant's name	Polycom Inc.
Address	4750 Willow Road 94588-2708 Pleasanton USA
Test specification:	
Standard.....	47 CFR Part 15 Subpart B RSS-Gen, Issue 3, 2010-12 ANSI C63.4:2009
Equipment under test (EUT):	
Product description	DECT6.0 PSTN Hands Free Conference Telephone
Model No.	SoundStation2W
Hardware version	2200-07800-160 Rev G L888
Firmware / Software version	1.85
	FCC-ID: M72-SS2WD6 IC: 1849C-SS2WD6
Test result	Passed

Possible test case verdicts:


- not applicable to test object : N/A
- test object does meet the requirement..... : P (Pass)
- test object does not meet the requirement..... : F (Fail)


Testing:

Date of receipt of test item : 2012-03-05

Date (s) of performance of tests : 2012-03-14 – 2012-03-16

Compiled by : Antje Bartusch

Tested by (+ signature)..... : Matthias Handrik 

Approved by (+ signature) : Jens Zimmermann 

Date of issue : 2012-03-29

Total number of pages : 26

General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Additional comments:

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1 Equipment (Test item) Description

Description	DECT6.0 PSTN Hands Free Conference Telephone
Model	SoundStation2W
Serial number	None
Hardware version	2200-07800-160 Rev G L888
Software / Firmware version	1.85
FCC ID	M72-SS2WD6
IC	1849C-SS2WD6
Power supply	120VAC
AC/DC-Adaptor	Model : SPS-12-009-120 Manufacturer : TSEC Input : 100-240VAC / 50-60Hz Output : 12VDC /1.0A
Manufacturer	Polycom Inc. 4750 Willow Road 94588-2708 Pleasanton USA
Highest emission frequency	> 1000MHz (up to 5th Harm)
Device classification	Class B
Equipment type	Tabletop
Number of tested samples	1

EUT SIDE VIEW FRONT – FIXED PART



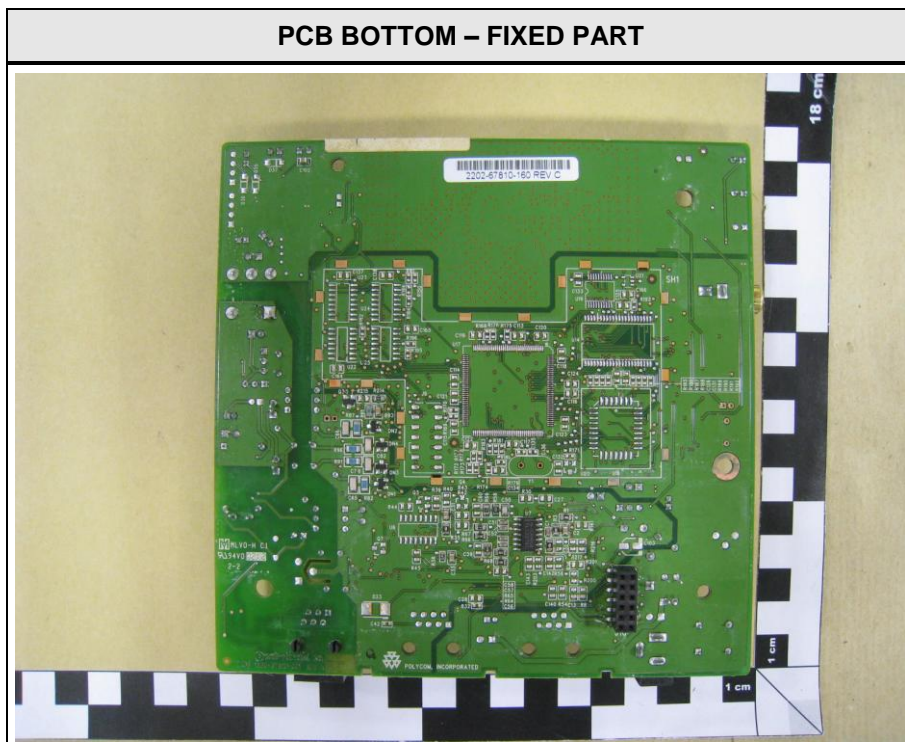
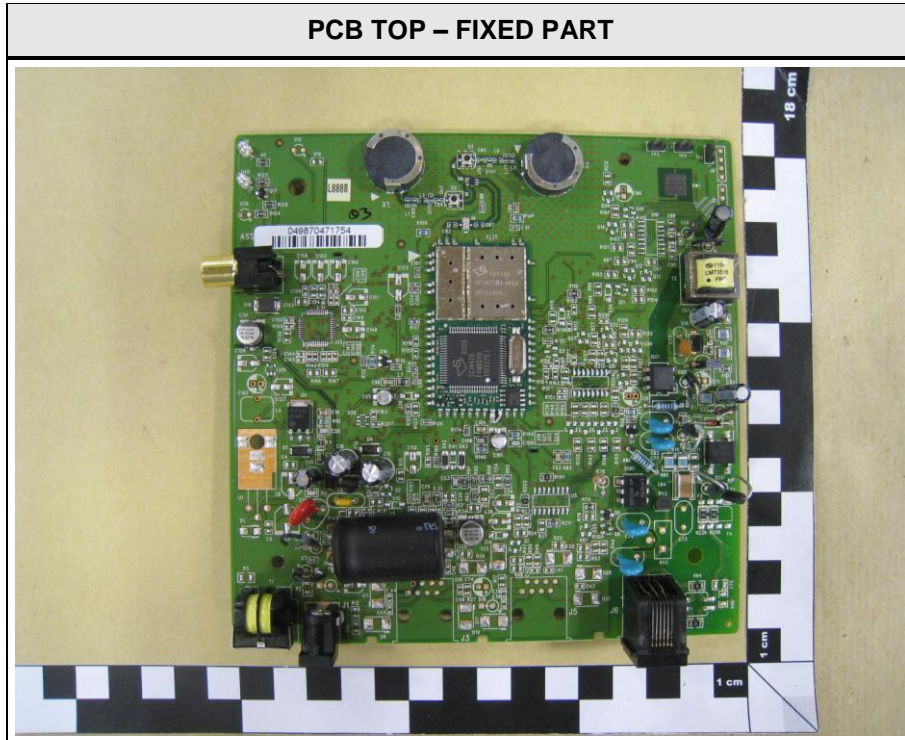
EUT SIDE VIEW BACK – FIXED PART



DEDICATED AC/DC ADAPTER



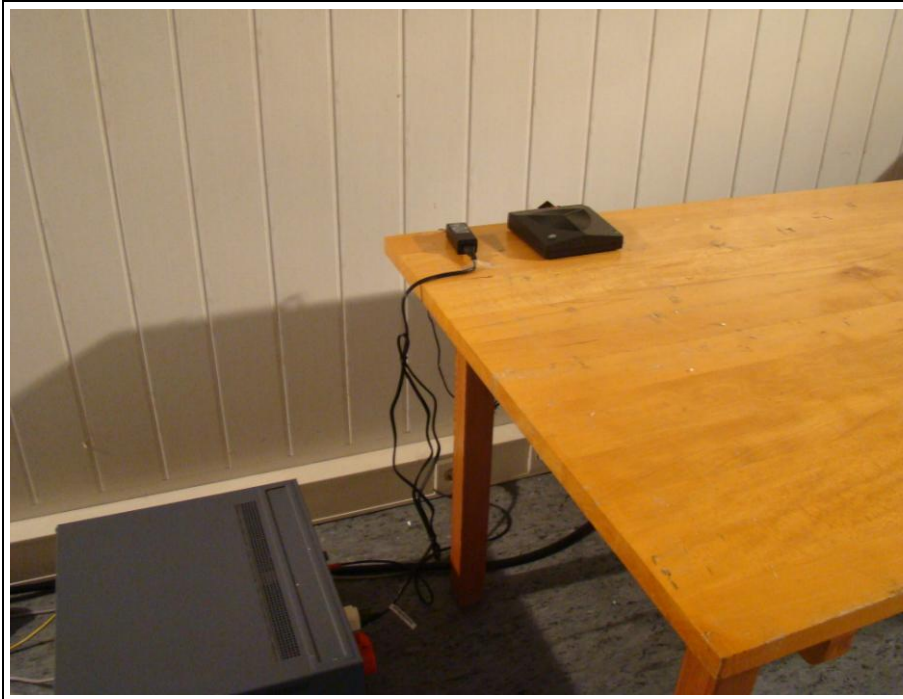
1.2 Photos – Equipment internal



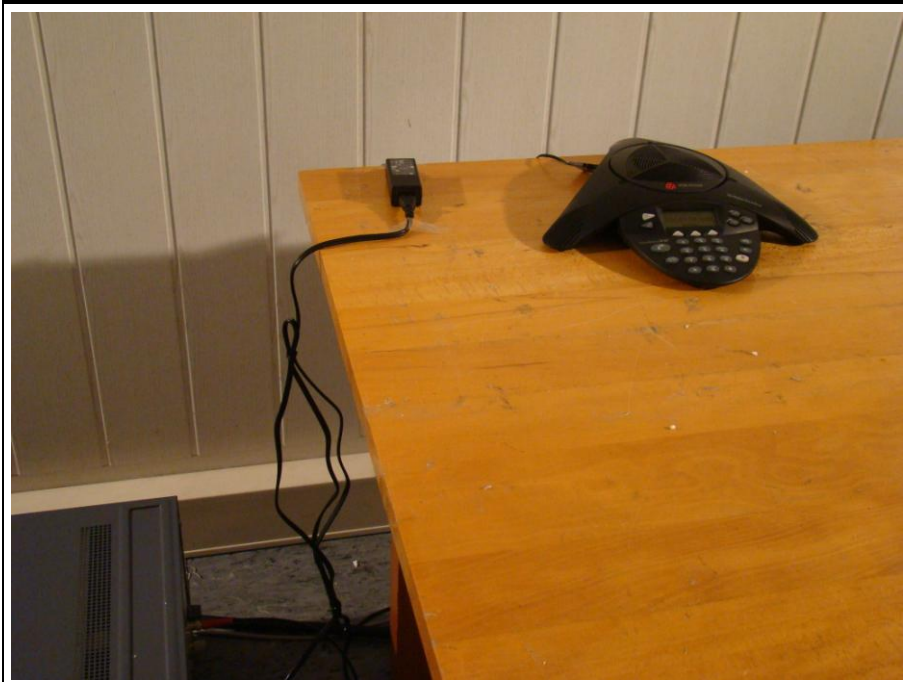
1.3 Photos – Test setup



CONDUCTED EMISSIONS



CONDUCTED EMISSIONS



1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
AE	TK-Anlage	Auerswald	ETS-2204	
AE	ISDN Telephone	DeTeWe	EuroMaster	

***Note:** Use the following abbreviations:

AE : Auxiliary/Associated Equipment, or

SIM : Simulator (Not Subjected to Test)

CABL : Connecting cables

1.5 Operating Modes

Mode #	Description
1	PP - charging DECT 6.0 Link to FP
2	FP – charging DECT 6.0 Link to PP

1.6 Test Equipment Used During Testing

Radiated emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Biconical Antenna	R&S	HK 116	Inv. No. 0012	Jan 10	Jan 13
LPD-Antenne	R&S	HL 223	Inv. No. 0295	Feb 11	Feb 13
LPD-Antenna	R&S	HL 025	Inv. No. 0512	Feb 10	Feb 13
EMI Test Receiver	R&S	ESU8	Inv. No. 0567	Dec 11	Dec 12
EMI Test Receiver	R&S	ESCS30	Inv. No. 0474	Jun 11	Jun 12

Conducted emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	R&S	ESH2-Z5	Inv. No. 0288	Sep 10	Sep 12
AMN	R&S	ESH3-Z5	Inv. No. 0040	Nov 10	Nov 12
EMI Test Receiver	R&S	ESCS 30	Inv. No. 0474	Jun 11	Jun 12

2 Result Summary

FCC 47 CFR Part 15B, Industry Canada RSS-Gen				
Product Specific Standard	Requirement – Test	Reference Method	Result	Remarks
47 CFR 15.109 RSS-Gen 4.9 & 4.10	Radiated emissions	ANSI C 63.4	PASS	
47 CFR 15.107 RSS-Gen 7.2.4	AC power line conducted emissions	ANSI C63.4	PASS	
Remarks:				

3 Test Conditions and Results

3.1 Test Conditions and Results – Radiated emissions

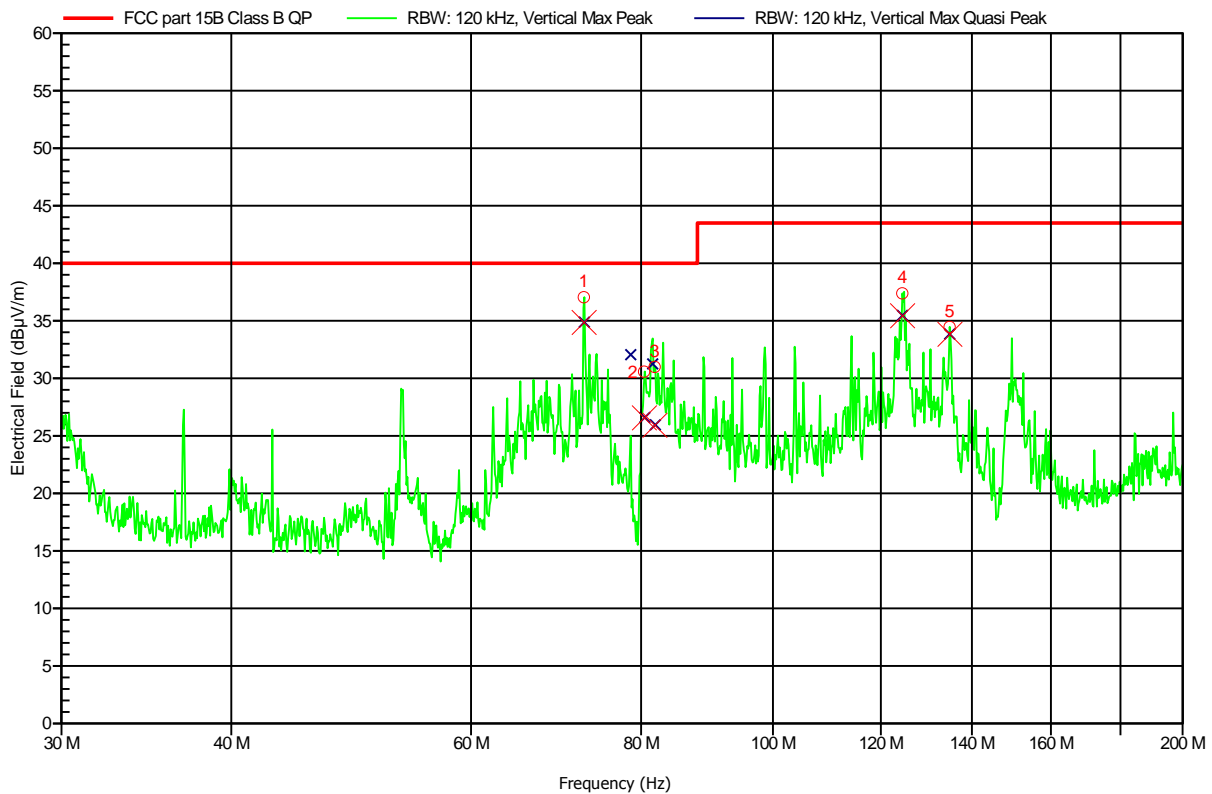
Radiated emissions acc. FCC 47 CFR 15.109 / IC RSS-Gen		Verdict: PASS				
Laboratory Parameters:	Required prior to the test	During the test				
Ambient Temperature	15 to 35°C	22°C				
Relative Humidity	30 to 60%	35%				
Test according referenced standards	Reference Method					
	ANSI C63.4					
Sample is tested with respect to the requirements of the equipment class	Equipment class					
	Class B					
Test frequency range determined from highest emission frequency	Highest emission frequency					
	> 1000MHz (up to 5th Harm)					
Fully configured sample scanned over the following frequency range	Frequency range					
	30MHz to 5GHz					
Operating mode	1					
Limits and results Class B						
Frequency [MHz]	Quasi-Peak [dBµV/m]	Result	Average [dBµV/m]	Result	Peak [dBµV/m]	Result
30 – 88	40	PASS	-		-	-
88 – 216	43.5	PASS	-		-	-
216 – 960	46	PASS	-		-	-
960 – 1000	54	PASS	-		-	-
> 1000	-	-	54	PASS	74	PASS
Comments:						

Spurious emissions under normal conditions according to FCC 15B

Project number: G0M-1202-1776

Manufacturer: Polycom Inc.
 EUT Name: DECT6.0 PSTM Hands Free Conference Telephone
 Model: SoundStation2W
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Unom: 120 V AC (AC/DC adaptor)
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3m
 Mode: PP: charging; PP↔FP: active DECT (UPCS) link
 Test Date: 15.03.2012
 Note:

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Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
72,612 MHz	34,88 dBµV/m	40 dBµV/m	-5,12 dB	Pass
80,407 MHz	26,59 dBµV/m	40 dBµV/m	-13,41 dB	Pass
81,859 MHz	25,95 dBµV/m	40 dBµV/m	-14,05 dB	Pass
124,446 MHz	35,46 dBµV/m	43,5 dBµV/m	-8,04 dB	Pass
134,82 MHz	33,85 dBµV/m	43,5 dBµV/m	-9,65 dB	Pass

Test Report No.: G0M-1202-1776-EF01-V01

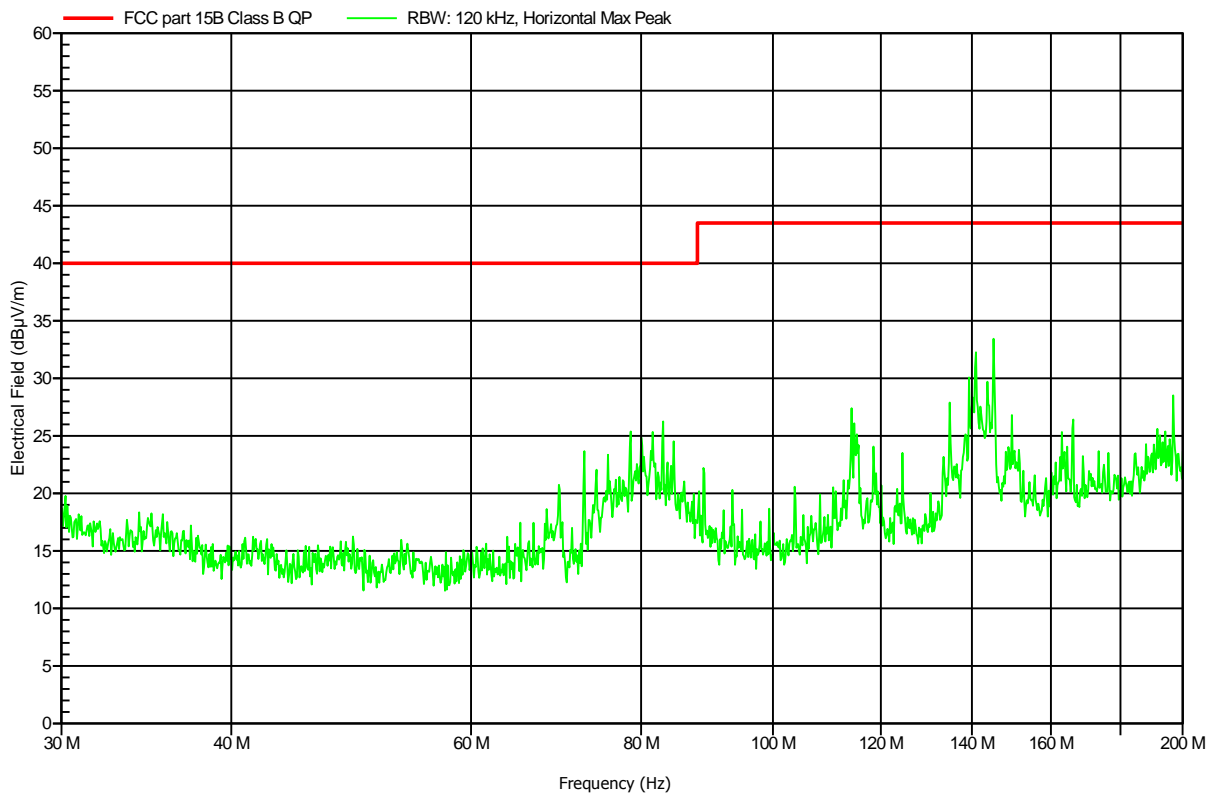
 Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions under normal conditions according to FCC 15B

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Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
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Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3m
Mode:	PP: charging; PP↔FP: active DECT (UPCS) link
Test Date:	15.03.2012
Note:	

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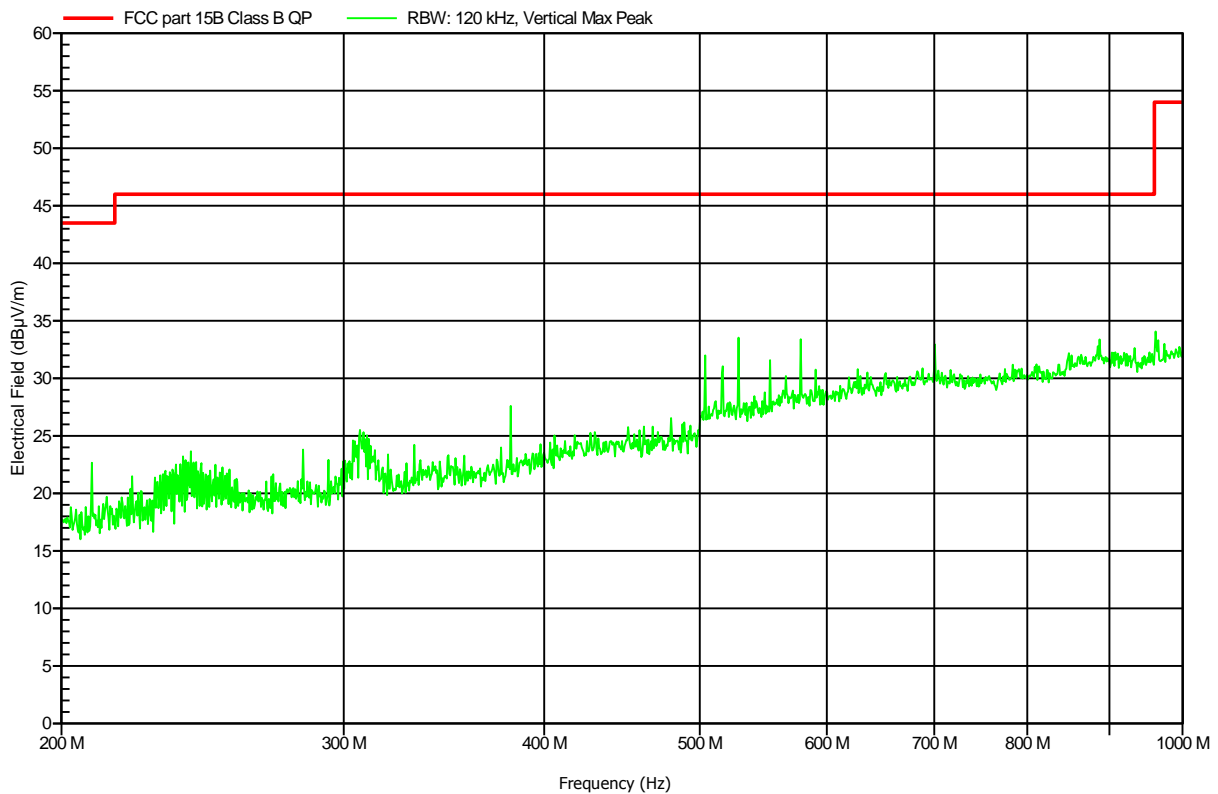


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Manufacturer:	Polycom Inc.
EUT Name:	DECT6.0 PSTM Hands Free Conference Telephone
Model:	SoundStation2W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Unom: 120 V AC (AC/DC adaptor)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3m
Mode:	PP: charging; PP↔FP: active DECT (UPCS) link
Test Date:	15.03.2012
Note:	

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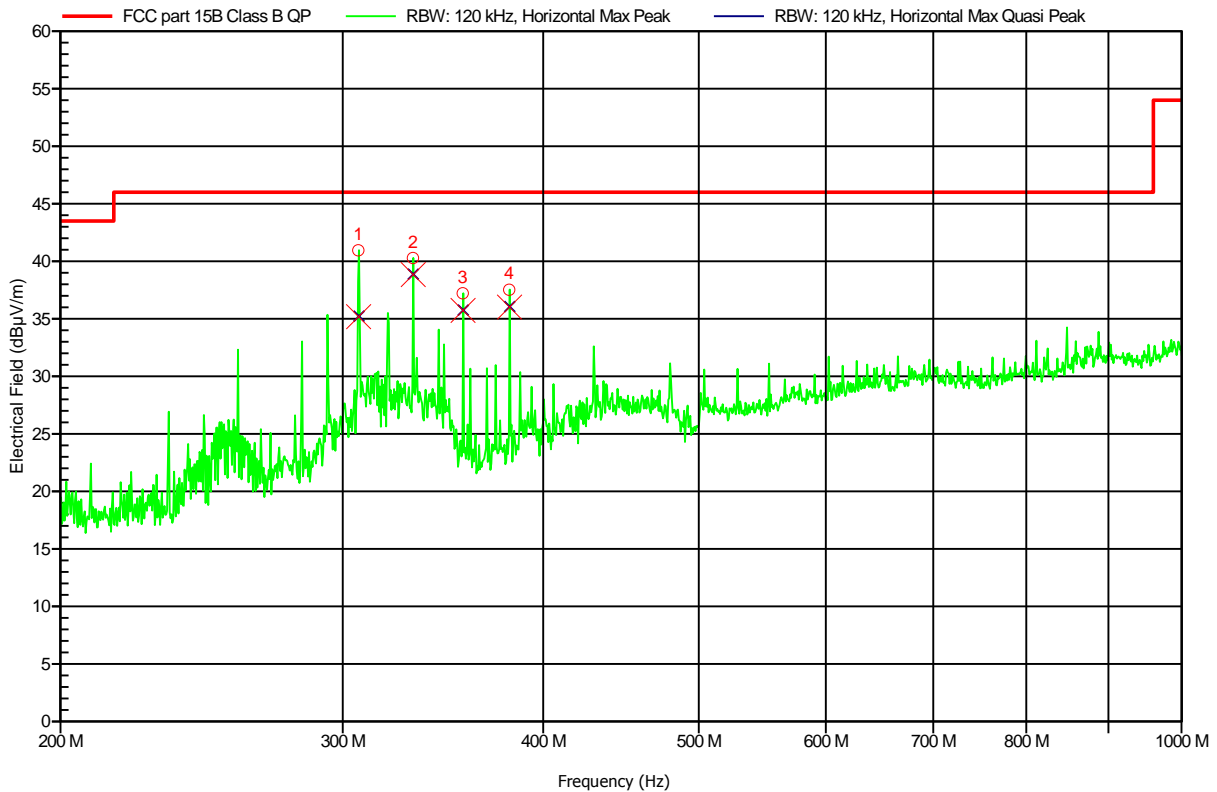


Spurious emissions under normal conditions according to FCC 15B

Project number: G0M-1202-1776

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 EUT Name: DECT6.0 PSTM Hands Free Conference Telephone
 Model: SoundStation2W
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Unom: 120 V AC (AC/DC adaptor)
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3m
 Mode: PP: charging; PP↔FP: active DECT (UPCS) link
 Test Date: 15.03.2012
 Note:

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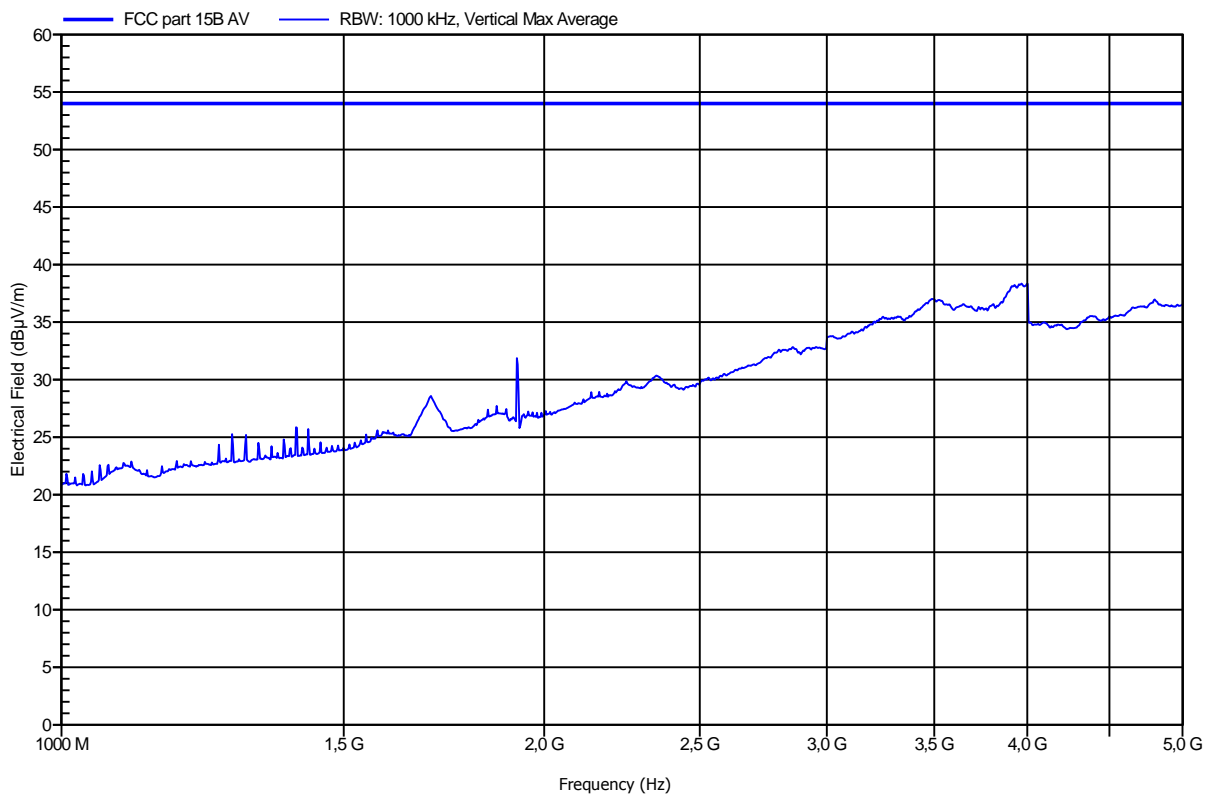
Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
306,764 MHz	35,21 dBµV/m	46 dBµV/m	-10,79 dB	Pass
331,796 MHz	38,87 dBµV/m	46 dBµV/m	-7,13 dB	Pass
356,36 MHz	35,75 dBµV/m	46 dBµV/m	-10,25 dB	Pass
380,942 MHz	36,04 dBµV/m	46 dBµV/m	-9,96 dB	Pass

Spurious emissions under normal conditions according to FCC 15B

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Manufacturer:	Polycom Inc.
EUT Name:	DECT6.0 PSTM Hands Free Conference Telephone
Model:	SoundStation2W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Unom: 120 V AC (AC/DC adaptor)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3m
Mode:	PP: charging; PP↔FP: active DECT (UPCS) link
Test Date:	16.03.2012
Note:	

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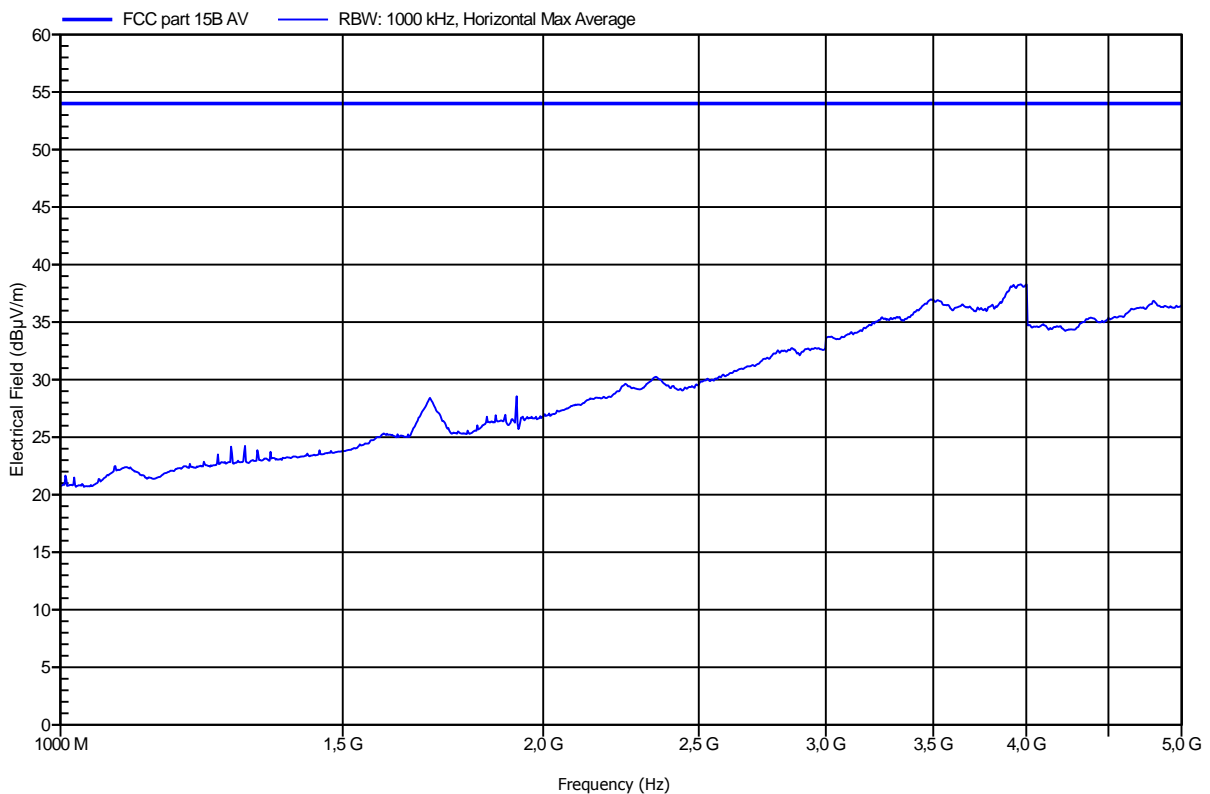


Spurious emissions under normal conditions according to FCC 15B

Project number: G0M-1202-1776

Manufacturer:	Polycom Inc.
EUT Name:	DECT6.0 PSTM Hands Free Conference Telephone
Model:	SoundStation2W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Unom: 120 V AC (AC/DC adaptor)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3m
Mode:	PP: charging; PP↔FP: active DECT (UPCS) link
Test Date:	16.03.2012
Note:	

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3.2 Test Conditions and Results – AC power line conducted emissions

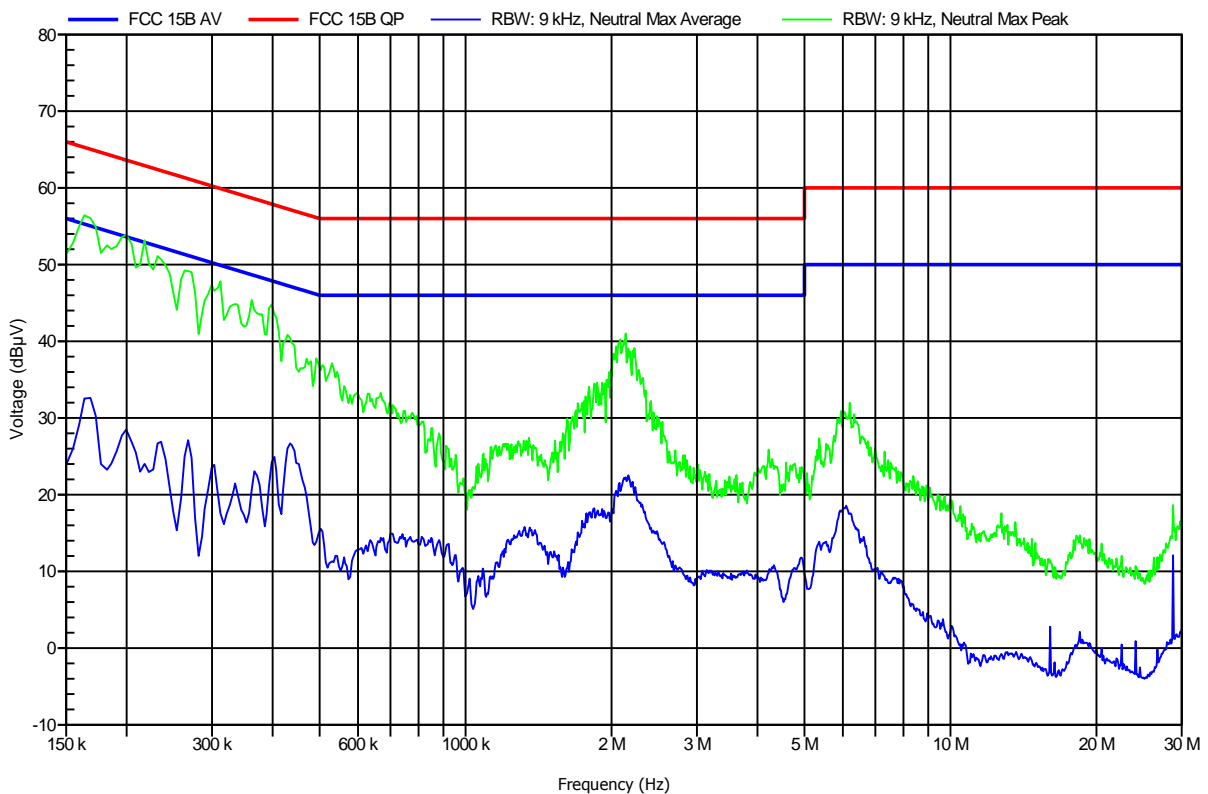
Conducted emissions acc. FCC 47 CFR 15.107 / IC RSS-Gen		Verdict: PASS		
Laboratory Parameters:	Required prior to the test	During the test		
Ambient Temperature	15 to 35°C	22°C		
Relative Humidity	30 to 60%	35%		
Test according referenced standards	Reference Method			
	ANSI C63.4			
Fully configured sample scanned over the following frequency range	Frequency range			
	0.15MHz to 30MHz			
Sample is tested with respect to the requirements of the equipment class	Equipment class			
	Class B			
Points of Application	Application Interface			
AC Mains	LISN			
Operating mode	1&2			
Limits and results Class B				
Frequency [MHz]	Quasi-Peak [dBµV]	Result	Average [dBµV]	Result
0.15 to 5	66 to 56*	PASS	56 to 46*	PASS
0.5 to 5	56	PASS	46	PASS
5 to 30	60	PASS	50	PASS
Comments:				
* Limit decreases linearly with the logarithm of the frequency.				

EMI voltage test in the ac-mains according to FCC 15B

Project number: G0M-1202-1776

Manufacturer:	Polycom Inc.
EUT Name:	DECT6.0 PSTM Hands Free Conference Telephone
Model:	SoundStation2W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Unom: 120 V AC (AC/DC adaptor)
LISN:	ESH2-Z5 N
Mode:	FP: active DECT (UPCS) link
Test Date:	16.03.2012
Note:	

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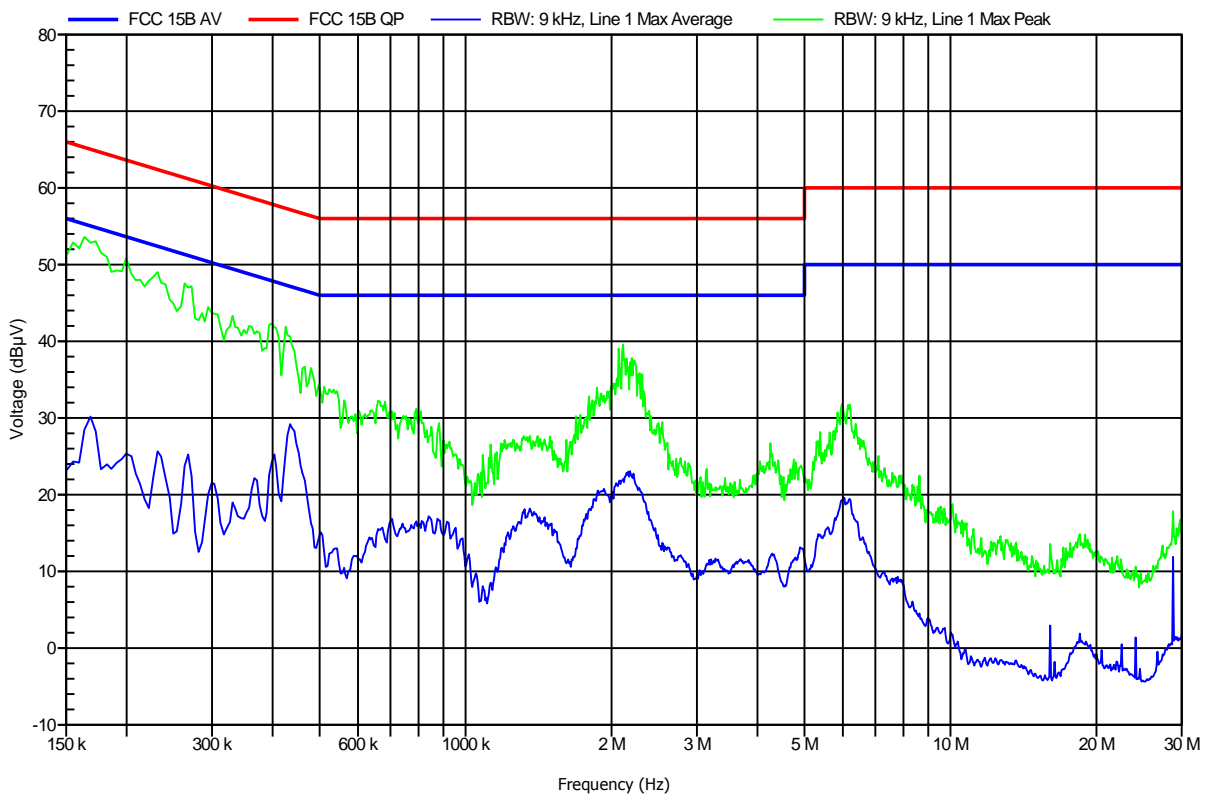


EMI voltage test in the ac-mains according to FCC 15B

Project number: G0M-1202-1776

Manufacturer:	Polycom Inc.
EUT Name:	DECT6.0 PSTM Hands Free Conference Telephone
Model:	SoundStation2W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Unom: 120 V AC (AC/DC adaptor)
LISN:	ESH2-Z5 L
Mode:	FP: active DECT (UPCS) link
Test Date:	16.03.2012
Note:	

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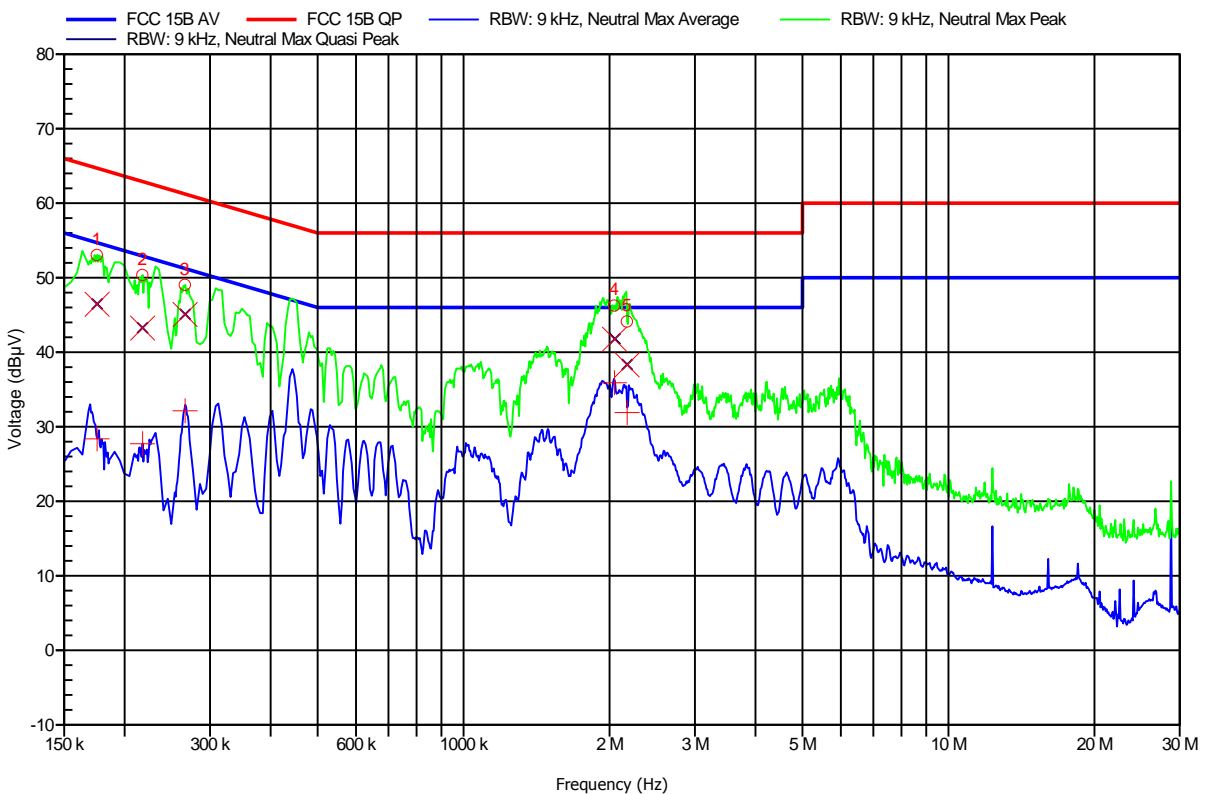


EMI voltage test in the ac-mains according to FCC 15B

Project number: G0M-1202-1776

Manufacturer: Polycom Inc.
 EUT Name: DECT6.0 PSTM Hands Free Conference Telephone
 Model: SoundStation2W
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Unom: 120 V AC (AC/DC adaptor)
 LISN: ESH2-Z5 N
 Mode: PP: charging; active DECT (UPCS) link
 Test Date: 14.03.2012
 Note:

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Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
175.2 kHz	46.48 dBµV	64.71 dBµV	-18.23 dB	Pass
217.5 kHz	43.28 dBµV	62.91 dBµV	-19.64 dB	Pass
266.1 kHz	45.09 dBµV	61.24 dBµV	-16.15 dB	Pass
2.044 MHz	41.8 dBµV	56 dBµV	-14.2 dB	Pass
2.172 MHz	38.35 dBµV	56 dBµV	-17.65 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
175.2 kHz	28.42 dBµV	54.71 dBµV	-26.29 dB	Pass
217.5 kHz	27.76 dBµV	52.91 dBµV	-25.16 dB	Pass
266.1 kHz	32.18 dBµV	51.24 dBµV	-19.06 dB	Pass
2.044 MHz	35.95 dBµV	46 dBµV	-10.05 dB	Pass
2.172 MHz	31.95 dBµV	46 dBµV	-14.05 dB	Pass

Test Report No.: G0M-1202-1776-EF01-V01

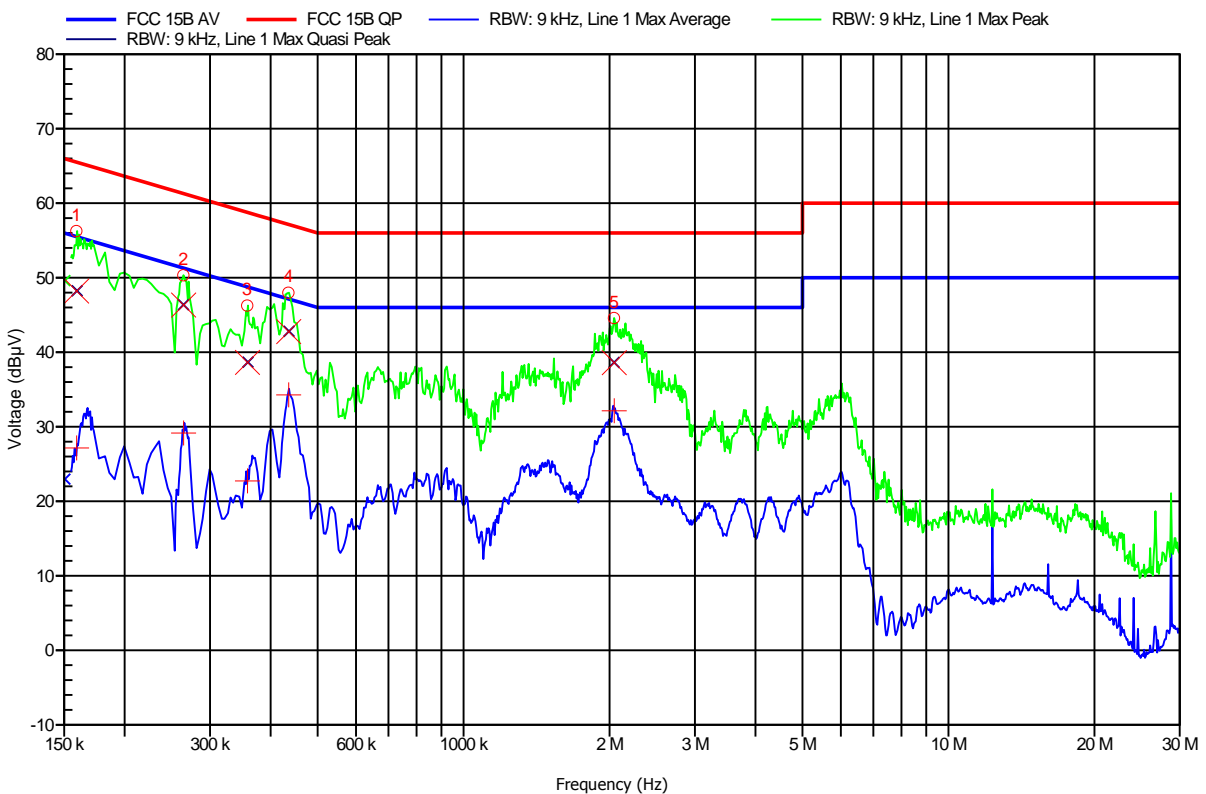
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

EMI voltage test in the ac-mains according to FCC 15B

Project number: G0M-1202-1776

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 Model: SoundStation2W
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Unom: 120 V AC (AC/DC adaptor)
 LISN: ESH2-Z5 L
 Mode: PP: charging; active DECT (UPCS) link
 Test Date: 14.03.2012
 Note:

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Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
159 kHz	48.25 dBµV	65.52 dBµV	-17.27 dB	Pass
264.3 kHz	46.37 dBµV	61.3 dBµV	-14.92 dB	Pass
357.9 kHz	38.67 dBµV	58.78 dBµV	-20.1 dB	Pass
435.3 kHz	42.81 dBµV	57.15 dBµV	-14.34 dB	Pass
2.043 MHz	38.64 dBµV	56 dBµV	-17.36 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
159 kHz	27.19 dBµV	55.52 dBµV	-28.33 dB	Pass
264.3 kHz	29.2 dBµV	51.3 dBµV	-22.09 dB	Pass
357.9 kHz	22.77 dBµV	48.78 dBµV	-26 dB	Pass
435.3 kHz	34.32 dBµV	47.15 dBµV	-12.83 dB	Pass
2.043 MHz	32.18 dBµV	46 dBµV	-13.82 dB	Pass

Test Report No.: G0M-1202-1776-EF01-V01

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