

Masimo Corporation

Radical 7C+

Report No. MASI0057

Report Prepared By



www.nwemc.com
1-888-EMI-CERT

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EMC Test Report



22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test
Last Date of Test: May 5, 2010
Masimo Corporation
Model: Radical 7C+

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Spurious Radiated Emissions	FCC 15.247:2010	ANSI C63.10:2009	Pass
AC Powerline Conducted Emissions	FCC 15.207:2010	ANSI C63.10:2009	Pass

Modifications made to the product

See the Modifications section of this report

Test Facility

The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
41 Tesla Ave.
Irvine, CA 92618

Phone: (503) 844-4066 Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada (Site filing #2834B-2).

Approved By:

Don Fecteau, IS Manager



NVLAP Lab Code: 200676-0

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.

Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test.

Revision Number	Description	Date	Page Number
00	None		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.



Accreditations and Authorizations

FCC

Accredited by NVLAP for performance of FCC radio, digital, and ISM device testing. Our Open Area Test Sites, certification chambers, and conducted measurement facilities have been fully described in reports filed with the FCC and accepted by the FCC in letters maintained in our files. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by the FCC as a Telecommunications Certification Body (TCB). This allows Northwest EMC to certify transmitters to FCC specifications in accordance with 47 CFR 2.960 and 2.962.



NVLAP

Northwest EMC, Inc. is accredited under the United States Department of Commerce, National Institute of Standards and Technology, and National Voluntary Laboratory Accreditation Program for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 2004/108/EC, and ANSI C63.4. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.



NVLAP LAB CODE 200629-0
NVLAP LAB CODE 200630-0
NVLAP LAB CODE 200676-0
NVLAP LAB CODE 200761-0
NVLAP LAB CODE 200881-0

Industry Canada

Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS-Gen, Issue 2 and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements. (*Site Filing Numbers - Hillsboro: 2834D-1, 2834D-2, Sultan: 2834C-1, Irvine: 2834B-1, 2834B-2, Brooklyn Park: 2834E-1*)



CAB

Designated by NIST and validated by the European Commission as a Conformity Assessment Body (CAB) to conduct tests and approve products to the EMC directive and transmitters to the R&TTE directive, as described in the U.S. - EU Mutual Recognition Agreement.



NEMKO

Assessed and accredited by NEMKO (Norwegian testing and certification body) for European emissions and immunity testing. As a result of NEMKO's laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification (Authorization No. ELA 119).



Australia/New Zealand

The National Association of Testing Authorities (NATA), Australia has been appointed by the ACA as an accreditation body to accredit test laboratories and competent bodies for EMC standards. Accredited test reports or assessments by competent bodies must carry the NATA logo. Test reports made by an overseas laboratory that has been accredited for the relevant standards by an overseas accreditation body that has a Mutual Recognition Agreement (MRA) with NATA are also accepted as technical grounds for product conformity. The report should be endorsed with the respective logo of the accreditation body (NVLAP).



VCCI

Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. (Registration Numbers. - Hillsboro: C-1071, R-1025, G-84, C-2687, T-1658, and R-2318, Irvine: R-1943, G-85, C-2766, and T-1659, Sultan: R-871, G-83, C-1784, and T-1511, Brooklyn Park: R-3125, G-86, G-141, C-3464, and T-1634).



BSMI

Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement (US0017). License No.SL2-IN-E-1017.



GOST

Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification



KCC

Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157)



VIETNAM

Vietnam MIC has approved Northwest EMC as an accredited test lab. Per Decision No. 194/QD-QLCL (dated December 15, 2009), Northwest EMC test reports can be used for Vietnam approval submissions.



SCOPE

For details on the Scopes of our Accreditations, please visit:

<http://www.nwemc.com/accreditations/>



Northwest EMC Locations



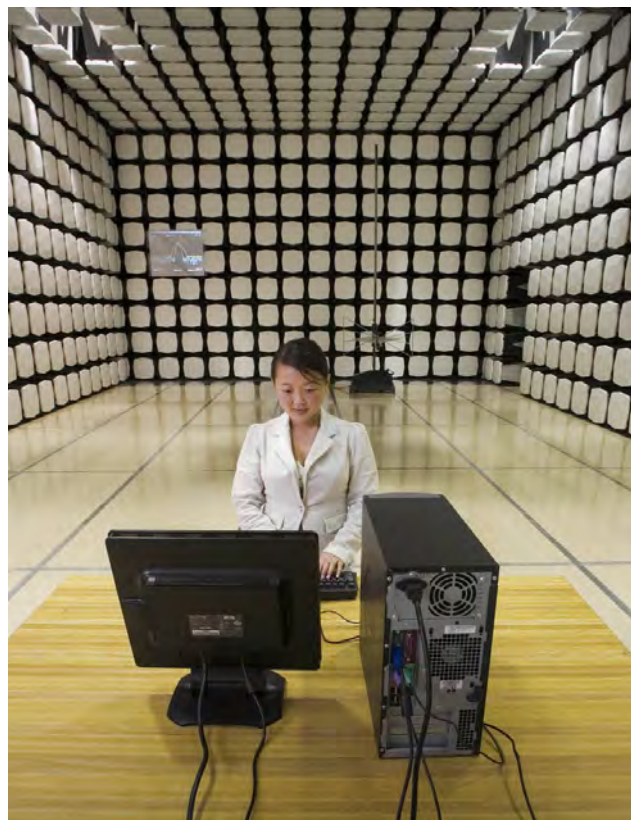
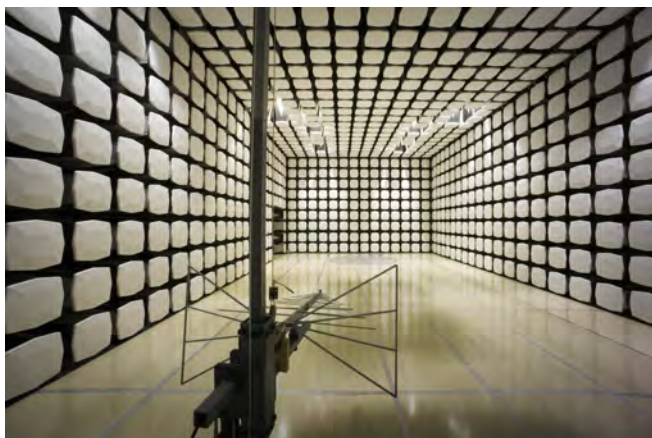
Oregon
Labs EV01-EV12
22975 NW Evergreen Pkwy
Suite 400
Hillsboro, OR 97124
(503) 844-4066

California
Labs OC01-OC13
41 Tesla
Irvine, CA 92618
(949) 861-8918

Minnesota
Labs MN01-MN08
9349 W Broadway Ave.
Brooklyn Park,
MN 55445
(763) 425-2281

Washington
Labs SU01-SU07
14128 339th Ave. SE
Sultan, WA 98294
(360) 793-8675

New York
Labs WA01-WA04
4939 Jordan Rd.
Elbridge, NY 13060
(315) 685-0796



Party Requesting the Test

Company Name:	Masimo Corporation
Address:	40 Parker
City, State, Zip:	Irvine, CA 92618
Test Requested By:	Paul Lewandowski
Model:	Radical 7C+
First Date of Test:	May 3, 2010
Last Date of Test:	May 5, 2010
Receipt Date of Samples:	May 3, 2010
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):

One 802.11a/b/g radio module installed in a medical monitoring device that will be connected to hospital wireless network.

Testing Objective:

Seeking to demonstrate compliance under FCC 15.247 for operation in the 2.4 and 5.8 GHz bands

EUT Photo





CONFIGURATION 1 MASI0057**EUT**

Description	Manufacturer	Model/Part Number	Serial Number
Pulse Oximeter	Masimo	Radical 7C+	E00680

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
SpO2 Cable Adapter	Masimo	None	E09H383

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Patient Cable	No	4.7m	No	SpO2 Cable Adapter	Unterminated
Patient Cable	No	4.0m	No	SpO2 Cable Adapter	Unterminated
AC Cable	No	1.8m	No	EUT	AC Mains
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Equipment modifications					
Item	Date	Test	Modification	Note	Disposition of EUT
1	5/3/2010	AC Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	5/5/2010	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

CHANNELS INVESTIGATED

Channel 1, 2412 MHz

Channel 6, 2437 MHz

Channel 11, 2462 MHz

Channel 149, 5745 MHz

Channel 157, 5785 MHz

Channel 165, 5825 MHz

DATA RATES INVESTIGATED

1 Mbps, 11 Mbps, 6 Mbps, 36 Mbps, 54 Mbps

AXIS INVESTIGATED

X -Axis

Y -Axis

Z -Axis

MODE USED FOR FINAL DATA

Channels 1, 6, 11. 1 Mbps, Z-Axis

Channels 149, 157, 165. 6 Mbps, Z-Axis

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	40 GHz
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CLOCKS AND OSCILLATORS

2412 MHz, 2437 MHz, 2462 MHz, 5745 MHz, 5785 MHz, 5825 MHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
High Pass Filter	Micro-Tronics	HPM50111	HGC	11/20/2009	13
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AOI	5/3/2010	13
Antenna, Horn	EMCO	3160-09	AHN	NCR	0
OC floating Cable	N/A	18-26GHz RE Cables	OCK	5/3/2010	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVP	12/21/2009	13
Antenna, Horn	EMCO	3160-08	AHK	NCR	0
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVL	4/11/2010	13
Antenna, Horn	ETS	3160-07	AHX	NCR	0
OC11 Cables	N/A	12-18GHz RE Cables	OCS	4/11/2010	13
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVJ	9/10/2009	13
Antenna, Horn	EMCO	3115	AHB	9/11/2009	24
OC11 Cables	N/A	1-8GHz RE Cables	OCR	3/19/2010	13
Pre-Amplifier	Miteq	AM-1551	AOU	2/11/2009	24

MEASUREMENT BANDWIDTHS

Frequency Range	Peak Data	Quasi-Peak Data	Average Data
(MHz)	(kHz)	(kHz)	(kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. The measurement uncertainty estimation is available upon request.

TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axes, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

NORTHWEST		PSA 2008.07.21 EMI 2009.8.29																																																																																																																																																																																																																																												
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<table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>Freq (MHz)</th> <th>Amplitude (dBuV)</th> <th>Factor (dB)</th> <th>Azimuth (degrees)</th> <th>Height (meters)</th> <th>Distance (meters)</th> <th>External Attenuation (dB)</th> <th>Polarity</th> <th>Detector</th> <th>Distance Adjustment (dB)</th> <th>Adjusted dBuV/m</th> <th>Spec. Limit dBuV/m</th> <th>Compared to Spec. (dB)</th> <th>Comments</th> </tr> </thead> <tbody> <tr><td>4823.980</td><td>48.0</td><td>4.2</td><td>140.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>52.2</td><td>54.0</td><td>-1.8</td><td>Z-Axis</td></tr> <tr><td>4823.980</td><td>47.4</td><td>4.2</td><td>234.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>51.6</td><td>54.0</td><td>-2.4</td><td>X-Axis</td></tr> <tr><td>4823.980</td><td>47.1</td><td>4.2</td><td>269.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>51.3</td><td>54.0</td><td>-2.7</td><td>Y-Axis</td></tr> <tr><td>4823.973</td><td>45.9</td><td>4.2</td><td>309.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>50.1</td><td>54.0</td><td>-3.9</td><td>X-Axis</td></tr> <tr><td>4823.980</td><td>44.7</td><td>4.2</td><td>182.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>48.9</td><td>54.0</td><td>-5.1</td><td>Y-Axis</td></tr> <tr><td>7233.023</td><td>34.3</td><td>9.7</td><td>355.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>44.0</td><td>54.0</td><td>-10.0</td><td>X-Axis</td></tr> <tr><td>7238.909</td><td>31.1</td><td>9.7</td><td>351.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>40.8</td><td>54.0</td><td>-13.2</td><td>X-Axis</td></tr> <tr><td>4823.950</td><td>32.1</td><td>4.2</td><td>249.0</td><td>1.9</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>36.3</td><td>54.0</td><td>-17.7</td><td>Z-Axis</td></tr> <tr><td>4823.990</td><td>49.1</td><td>4.2</td><td>140.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>53.3</td><td>74.0</td><td>-20.7</td><td>Z-Axis</td></tr> <tr><td>4824.020</td><td>48.7</td><td>4.2</td><td>234.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>52.9</td><td>74.0</td><td>-21.1</td><td>X-Axis</td></tr> <tr><td>4824.030</td><td>48.1</td><td>4.2</td><td>269.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>52.3</td><td>74.0</td><td>-21.7</td><td>Y-Axis</td></tr> <tr><td>4823.970</td><td>47.2</td><td>4.2</td><td>309.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>51.4</td><td>74.0</td><td>-22.6</td><td>X-Axis</td></tr> <tr><td>4823.820</td><td>46.3</td><td>4.2</td><td>182.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>50.5</td><td>74.0</td><td>-23.5</td><td>Y-Axis</td></tr> <tr><td>7232.130</td><td>39.0</td><td>9.7</td><td>355.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>48.7</td><td>74.0</td><td>-25.3</td><td>X-Axis</td></tr> <tr><td>7240.010</td><td>37.5</td><td>9.7</td><td>351.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>47.2</td><td>74.0</td><td>-26.8</td><td>X-Axis</td></tr> <tr><td>4823.910</td><td>37.4</td><td>4.2</td><td>249.0</td><td>1.9</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>41.6</td><td>74.0</td><td>-32.4</td><td>Z-Axis</td></tr> </tbody> </table>	Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments	4823.980	48.0	4.2	140.0	1.2	3.0	0.0	H-Horn	AV	0.0	52.2	54.0	-1.8	Z-Axis	4823.980	47.4	4.2	234.0	1.2	3.0	0.0	V-Horn	AV	0.0	51.6	54.0	-2.4	X-Axis	4823.980	47.1	4.2	269.0	1.2	3.0	0.0	V-Horn	AV	0.0	51.3	54.0	-2.7	Y-Axis	4823.973	45.9	4.2	309.0	1.2	3.0	0.0	H-Horn	AV	0.0	50.1	54.0	-3.9	X-Axis	4823.980	44.7	4.2	182.0	1.2	3.0	0.0	H-Horn	AV	0.0	48.9	54.0	-5.1	Y-Axis	7233.023	34.3	9.7	355.0	1.2	3.0	0.0	V-Horn	AV	0.0	44.0	54.0	-10.0	X-Axis	7238.909	31.1	9.7	351.0	1.2	3.0	0.0	V-Horn	AV	0.0	40.8	54.0	-13.2	X-Axis	4823.950	32.1	4.2	249.0	1.9	3.0	0.0	V-Horn	AV	0.0	36.3	54.0	-17.7	Z-Axis	4823.990	49.1	4.2	140.0	1.2	3.0	0.0	H-Horn	PK	0.0	53.3	74.0	-20.7	Z-Axis	4824.020	48.7	4.2	234.0	1.2	3.0	0.0	V-Horn	PK	0.0	52.9	74.0	-21.1	X-Axis	4824.030	48.1	4.2	269.0	1.2	3.0	0.0	V-Horn	PK	0.0	52.3	74.0	-21.7	Y-Axis	4823.970	47.2	4.2	309.0	1.2	3.0	0.0	H-Horn	PK	0.0	51.4	74.0	-22.6	X-Axis	4823.820	46.3	4.2	182.0	1.2	3.0	0.0	H-Horn	PK	0.0	50.5	74.0	-23.5	Y-Axis	7232.130	39.0	9.7	355.0	1.2	3.0	0.0	V-Horn	PK	0.0	48.7	74.0	-25.3	X-Axis	7240.010	37.5	9.7	351.0	1.2	3.0	0.0	V-Horn	PK	0.0	47.2	74.0	-26.8	X-Axis	4823.910	37.4	4.2	249.0	1.9	3.0	0.0	V-Horn	PK	0.0	41.6	74.0	-32.4	Z-Axis
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4823.980	48.0	4.2	140.0	1.2	3.0	0.0	H-Horn	AV	0.0	52.2	54.0	-1.8	Z-Axis																																																																																																																																																																																																																																	
4823.980	47.4	4.2	234.0	1.2	3.0	0.0	V-Horn	AV	0.0	51.6	54.0	-2.4	X-Axis																																																																																																																																																																																																																																	
4823.980	47.1	4.2	269.0	1.2	3.0	0.0	V-Horn	AV	0.0	51.3	54.0	-2.7	Y-Axis																																																																																																																																																																																																																																	
4823.973	45.9	4.2	309.0	1.2	3.0	0.0	H-Horn	AV	0.0	50.1	54.0	-3.9	X-Axis																																																																																																																																																																																																																																	
4823.980	44.7	4.2	182.0	1.2	3.0	0.0	H-Horn	AV	0.0	48.9	54.0	-5.1	Y-Axis																																																																																																																																																																																																																																	
7233.023	34.3	9.7	355.0	1.2	3.0	0.0	V-Horn	AV	0.0	44.0	54.0	-10.0	X-Axis																																																																																																																																																																																																																																	
7238.909	31.1	9.7	351.0	1.2	3.0	0.0	V-Horn	AV	0.0	40.8	54.0	-13.2	X-Axis																																																																																																																																																																																																																																	
4823.950	32.1	4.2	249.0	1.9	3.0	0.0	V-Horn	AV	0.0	36.3	54.0	-17.7	Z-Axis																																																																																																																																																																																																																																	
4823.990	49.1	4.2	140.0	1.2	3.0	0.0	H-Horn	PK	0.0	53.3	74.0	-20.7	Z-Axis																																																																																																																																																																																																																																	
4824.020	48.7	4.2	234.0	1.2	3.0	0.0	V-Horn	PK	0.0	52.9	74.0	-21.1	X-Axis																																																																																																																																																																																																																																	
4824.030	48.1	4.2	269.0	1.2	3.0	0.0	V-Horn	PK	0.0	52.3	74.0	-21.7	Y-Axis																																																																																																																																																																																																																																	
4823.970	47.2	4.2	309.0	1.2	3.0	0.0	H-Horn	PK	0.0	51.4	74.0	-22.6	X-Axis																																																																																																																																																																																																																																	
4823.820	46.3	4.2	182.0	1.2	3.0	0.0	H-Horn	PK	0.0	50.5	74.0	-23.5	Y-Axis																																																																																																																																																																																																																																	
7232.130	39.0	9.7	355.0	1.2	3.0	0.0	V-Horn	PK	0.0	48.7	74.0	-25.3	X-Axis																																																																																																																																																																																																																																	
7240.010	37.5	9.7	351.0	1.2	3.0	0.0	V-Horn	PK	0.0	47.2	74.0	-26.8	X-Axis																																																																																																																																																																																																																																	
4823.910	37.4	4.2	249.0	1.9	3.0	0.0	V-Horn	PK	0.0	41.6	74.0	-32.4	Z-Axis																																																																																																																																																																																																																																	

EUT:	Radical 7C+	Work Order:	MAI0057
Serial Number:	113683	Date:	05/04/10
Customer:	Masimo Corporation	Temperature:	21.7
Attendees:	None	Humidity:	41%
Project:	None	Barometric Pres.:	1020.5mb
Tested by:	Jaemi Suh	Power:	120VAC/60Hz
		Job Site:	OC11

TEST SPECIFICATIONS

Test Method

FCC 15.247:2010

ANSI C63.10:2009

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

Channel 6, Speed 1 mbps

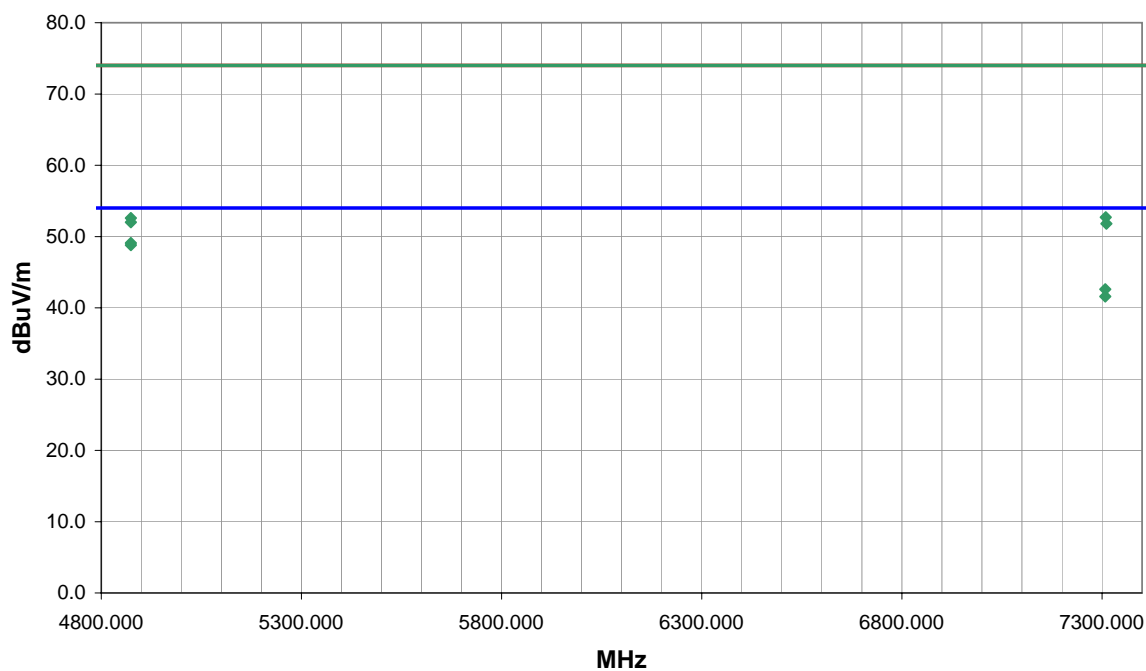
EUT OPERATING MODES

Transmit Mode

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	2	Signature 
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
4873.981	44.8	4.3	299.0	1.2	3.0	0.0	H-Horn	AV	0.0	49.1	54.0	-4.9
4873.983	44.5	4.3	228.0	1.2	3.0	0.0	V-Horn	AV	0.0	48.8	54.0	-5.2
7307.876	32.6	10.0	344.0	1.7	3.0	0.0	V-Horn	AV	0.0	42.6	54.0	-11.4
7308.197	31.6	10.0	72.0	1.2	3.0	0.0	H-Horn	AV	0.0	41.6	54.0	-12.4
7309.200	42.7	10.0	344.0	1.7	3.0	0.0	V-Horn	PK	0.0	52.7	74.0	-21.3
4873.850	48.3	4.3	299.0	1.2	3.0	0.0	H-Horn	PK	0.0	52.6	74.0	-21.4
4874.110	47.7	4.3	228.0	1.2	3.0	0.0	V-Horn	PK	0.0	52.0	74.0	-22.0
7310.760	41.8	10.0	72.0	1.2	3.0	0.0	H-Horn	PK	0.0	51.8	74.0	-22.2

EUT:	Radical 7C+	Work Order:	MA5I0057
Serial Number:	113683	Date:	05/04/10
Customer:	Masimo Corporation	Temperature:	21.7
Attendees:	None	Humidity:	41%
Project:	None	Barometric Pres.:	1020.5mb
Tested by:	Jaemi Suh	Power:	120VAC/60Hz
		Job Site:	OC11

TEST SPECIFICATIONS

Test Method

FCC 15.247:2010

ANSI C63.10:2009

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

Channel 11, Speed 1 mbps

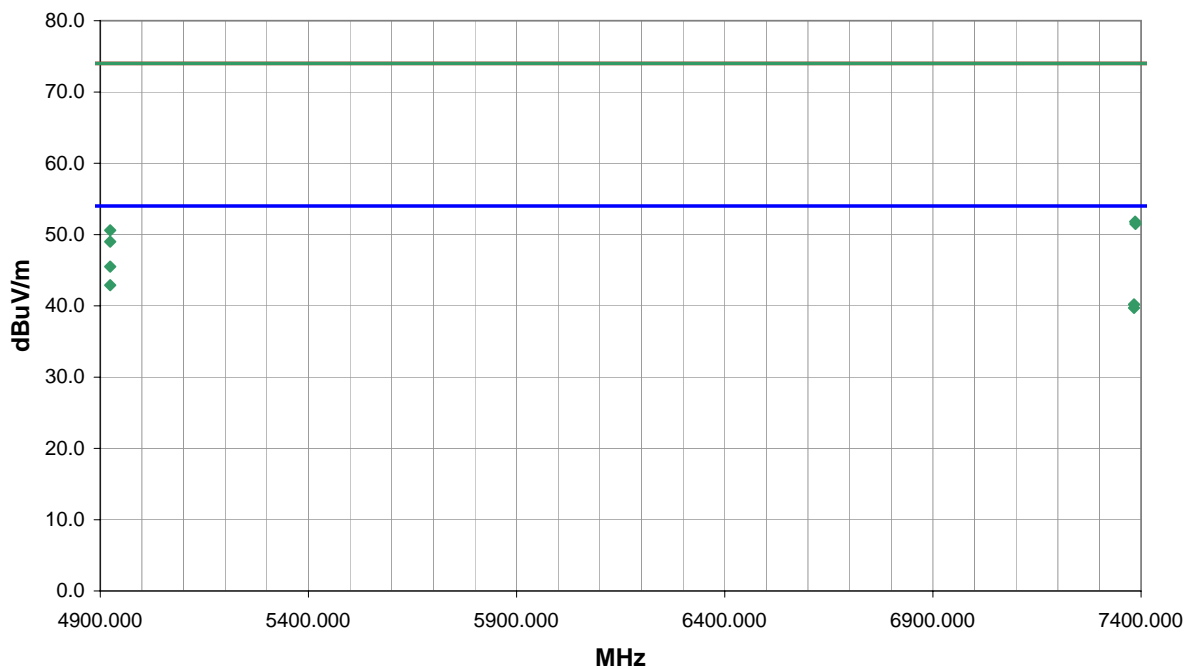
EUT OPERATING MODES

Transmit Mode


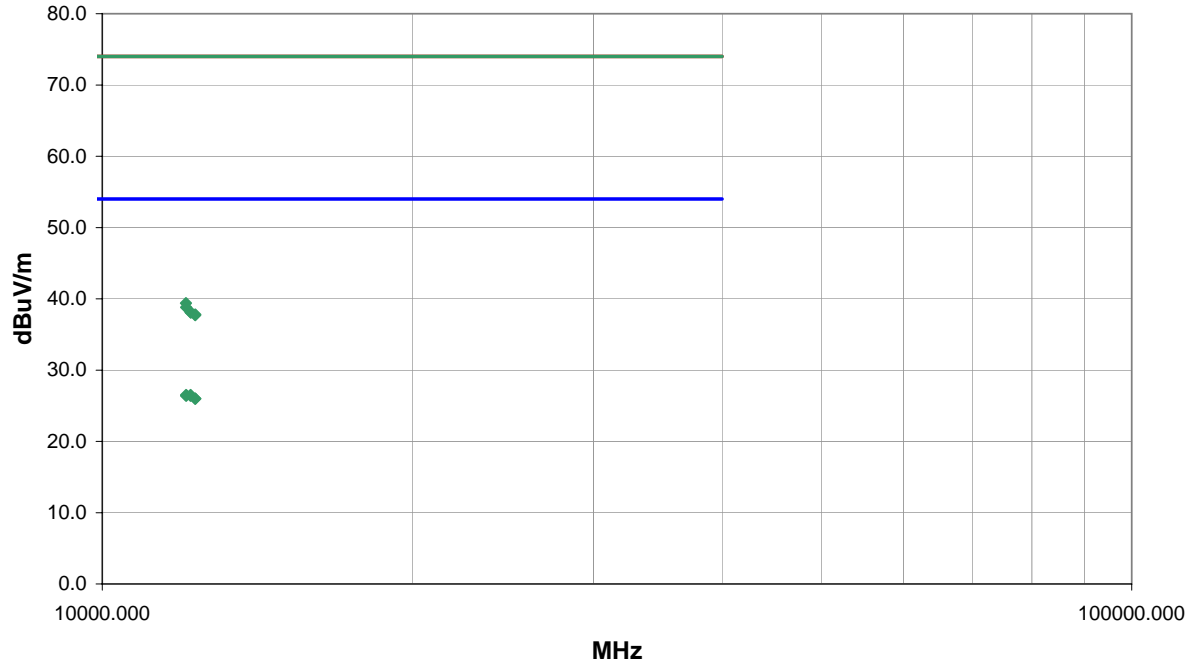
DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	4	Signature 
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
4923.966	41.0	4.5	230.0	1.2	3.0	0.0	V-Horn	AV	0.0	45.5	54.0	-8.5
4923.989	38.4	4.5	99.0	1.2	3.0	0.0	H-Horn	AV	0.0	42.9	54.0	-11.1
7383.164	30.1	10.1	165.0	1.2	3.0	0.0	H-Horn	AV	0.0	40.2	54.0	-13.8
7383.011	29.5	10.2	345.0	1.2	3.0	0.0	V-Horn	AV	0.0	39.7	54.0	-14.3
7385.740	41.7	10.1	165.0	1.2	3.0	0.0	H-Horn	PK	0.0	51.8	74.0	-22.2
7386.400	41.4	10.1	345.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.5	74.0	-22.5
4924.010	46.1	4.5	230.0	1.2	3.0	0.0	V-Horn	PK	0.0	50.6	74.0	-23.4
4923.820	44.5	4.5	99.0	1.2	3.0	0.0	H-Horn	PK	0.0	49.0	74.0	-25.0

NORTHWEST		SPURIOUS RADIATED EMISSIONS DATA SHEET		PSA 2008.07.21								
EMC				EMI 2009.8.29								
EUT: Radical 7C+			Work Order: MASI0057									
Serial Number: 113683			Date: 05/04/10									
Customer: Masimo Corporation			Temperature: 21.7									
Attendees: None			Humidity: 41%									
Project: None			Barometric Pres.: 1020.5mb									
Tested by: Jaemi Suh		Power: 120VAC/60Hz		Job Site: OC11								
TEST SPECIFICATIONS			Test Method									
FCC 15.247:2010			ANSI C63.10:2009									
TEST PARAMETERS												
Antenna Height(s) (m)		1 - 4		Test Distance (m) 0								
COMMENTS												
Channel 1, 6, 11. Speed 1 mbps												
EUT OPERATING MODES												
Transmit Mode												
DEVIATIONS FROM TEST STANDARD												
No deviations.												
Run #		3		Signature 								
Configuration #		1										
Results		Pass										
												
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
12185.970	34.9	-8.4	1.0	1.3	0.0	0.0	H-Horn	AV	0.0	26.5	54.0	-27.5
12064.290	35.3	-8.8	198.0	1.0	0.0	0.0	H-Horn	AV	0.0	26.5	54.0	-27.5
12182.810	34.8	-8.4	149.0	1.0	0.0	0.0	V-Horn	AV	0.0	26.4	54.0	-27.6
12063.920	35.3	-8.9	78.0	1.0	0.0	0.0	V-Horn	AV	0.0	26.4	54.0	-27.6
12309.110	34.0	-8.0	201.0	4.0	0.0	0.0	V-Horn	AV	0.0	26.0	54.0	-28.0
12311.450	34.1	-8.1	218.0	1.0	0.0	0.0	H-Horn	AV	0.0	26.0	54.0	-28.0
12059.190	48.3	-8.9	78.0	1.0	0.0	0.0	V-Horn	PK	0.0	39.4	74.0	-34.6
12062.140	47.7	-8.9	198.0	1.0	0.0	0.0	H-Horn	PK	0.0	38.8	74.0	-35.2
12186.320	46.5	-8.4	149.0	1.0	0.0	0.0	V-Horn	PK	0.0	38.1	74.0	-35.9
12187.320	46.5	-8.4	1.0	1.3	0.0	0.0	H-Horn	PK	0.0	38.1	74.0	-35.9
12311.180	45.9	-8.1	218.0	1.0	0.0	0.0	H-Horn	PK	0.0	37.8	74.0	-36.2
12312.470	45.8	-8.1	201.0	4.0	0.0	0.0	V-Horn	PK	0.0	37.7	74.0	-36.3

NORTHWEST		PSA 2008.07.21 EMI 2009.8.29																																																																																																																																																																																																																																																																																																							
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Customer: Masimo Corporation		Temperature: 21.7																																																																																																																																																																																																																																																																																																							
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TEST SPECIFICATIONS		Test Method																																																																																																																																																																																																																																																																																																							
FCC 15.247:2010		ANSI C63.10:2009																																																																																																																																																																																																																																																																																																							
TEST PARAMETERS																																																																																																																																																																																																																																																																																																									
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3																																																																																																																																																																																																																																																																																																						
COMMENTS																																																																																																																																																																																																																																																																																																									
Channel 1, Speed 1 mbps. Worst case mode, worst case frequency.																																																																																																																																																																																																																																																																																																									
EUT OPERATING MODES																																																																																																																																																																																																																																																																																																									
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DEVIATIONS FROM TEST STANDARD																																																																																																																																																																																																																																																																																																									
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Results	Pass																																																																																																																																																																																																																																																																																																								
<table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>Freq (MHz)</th> <th>Amplitude (dBuV)</th> <th>Factor (dB)</th> <th>Azimuth (degrees)</th> <th>Height (meters)</th> <th>Distance (meters)</th> <th>External Attenuation (dB)</th> <th>Polarity</th> <th>Detector</th> <th>Distance Adjustment (dB)</th> <th>Adjusted dBuV/m</th> <th>Spec. Limit dBuV/m</th> <th>Compared to Spec. (dB)</th> <th>Comments</th> </tr> </thead> <tbody> <tr><td>4823.980</td><td>46.8</td><td>4.2</td><td>178.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>51.0</td><td>54.0</td><td>-3.0</td><td>1 Mbps</td></tr> <tr><td>4823.970</td><td>42.0</td><td>4.2</td><td>271.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>46.2</td><td>54.0</td><td>-7.8</td><td>1 Mbps</td></tr> <tr><td>4822.320</td><td>34.6</td><td>4.2</td><td>186.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>38.8</td><td>54.0</td><td>-15.2</td><td>36 Mbps</td></tr> <tr><td>4823.500</td><td>34.2</td><td>4.2</td><td>310.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>38.4</td><td>54.0</td><td>-15.6</td><td>11 Mbps</td></tr> <tr><td>4822.170</td><td>34.0</td><td>4.2</td><td>325.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>38.2</td><td>54.0</td><td>-15.8</td><td>36 Mbps</td></tr> <tr><td>4822.440</td><td>33.9</td><td>4.2</td><td>76.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>38.1</td><td>54.0</td><td>-15.9</td><td>54 Mbps</td></tr> <tr><td>4823.600</td><td>33.3</td><td>4.2</td><td>178.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>37.5</td><td>54.0</td><td>-16.5</td><td>11 Mbps</td></tr> <tr><td>4821.960</td><td>32.7</td><td>4.2</td><td>70.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>36.9</td><td>54.0</td><td>-17.1</td><td>6 Mbps</td></tr> <tr><td>4824.060</td><td>32.5</td><td>4.2</td><td>202.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>36.7</td><td>54.0</td><td>-17.3</td><td>6 Mbps</td></tr> <tr><td>4825.610</td><td>30.1</td><td>4.2</td><td>152.0</td><td>1.3</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>34.3</td><td>54.0</td><td>-19.7</td><td>54 Mbps</td></tr> <tr><td>4823.900</td><td>49.5</td><td>4.2</td><td>178.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>53.7</td><td>74.0</td><td>-20.3</td><td>1 Mbps</td></tr> <tr><td>4824.320</td><td>47.3</td><td>4.2</td><td>310.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>51.5</td><td>74.0</td><td>-22.5</td><td>11 Mbps</td></tr> <tr><td>4824.040</td><td>46.8</td><td>4.2</td><td>325.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>51.0</td><td>74.0</td><td>-23.0</td><td>36 Mbps</td></tr> <tr><td>4821.510</td><td>46.6</td><td>4.2</td><td>186.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>50.8</td><td>74.0</td><td>-23.2</td><td>36 Mbps</td></tr> <tr><td>4825.060</td><td>46.6</td><td>4.2</td><td>178.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>50.8</td><td>74.0</td><td>-23.2</td><td>11 Mbps</td></tr> <tr><td>4825.500</td><td>46.2</td><td>4.2</td><td>76.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>50.4</td><td>74.0</td><td>-23.6</td><td>54 Mbps</td></tr> <tr><td>4823.970</td><td>46.1</td><td>4.2</td><td>271.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>50.3</td><td>74.0</td><td>-23.7</td><td>1 Mbps</td></tr> <tr><td>4822.900</td><td>45.2</td><td>4.2</td><td>70.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>49.4</td><td>74.0</td><td>-24.6</td><td>6 Mbps</td></tr> <tr><td>4821.730</td><td>44.9</td><td>4.2</td><td>202.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>49.1</td><td>74.0</td><td>-24.9</td><td>6 Mbps</td></tr> <tr><td>4825.510</td><td>42.0</td><td>4.2</td><td>152.0</td><td>1.3</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>46.2</td><td>74.0</td><td>-27.8</td><td>54 Mbps</td></tr> </tbody> </table>				Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments	4823.980	46.8	4.2	178.0	1.1	3.0	0.0	H-Horn	AV	0.0	51.0	54.0	-3.0	1 Mbps	4823.970	42.0	4.2	271.0	1.1	3.0	0.0	V-Horn	AV	0.0	46.2	54.0	-7.8	1 Mbps	4822.320	34.6	4.2	186.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.8	54.0	-15.2	36 Mbps	4823.500	34.2	4.2	310.0	1.1	3.0	0.0	V-Horn	AV	0.0	38.4	54.0	-15.6	11 Mbps	4822.170	34.0	4.2	325.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	36 Mbps	4822.440	33.9	4.2	76.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	54 Mbps	4823.600	33.3	4.2	178.0	1.1	3.0	0.0	H-Horn	AV	0.0	37.5	54.0	-16.5	11 Mbps	4821.960	32.7	4.2	70.0	1.1	3.0	0.0	V-Horn	AV	0.0	36.9	54.0	-17.1	6 Mbps	4824.060	32.5	4.2	202.0	1.0	3.0	0.0	H-Horn	AV	0.0	36.7	54.0	-17.3	6 Mbps	4825.610	30.1	4.2	152.0	1.3	3.0	0.0	H-Horn	AV	0.0	34.3	54.0	-19.7	54 Mbps	4823.900	49.5	4.2	178.0	1.1	3.0	0.0	H-Horn	PK	0.0	53.7	74.0	-20.3	1 Mbps	4824.320	47.3	4.2	310.0	1.1	3.0	0.0	V-Horn	PK	0.0	51.5	74.0	-22.5	11 Mbps	4824.040	46.8	4.2	325.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.0	74.0	-23.0	36 Mbps	4821.510	46.6	4.2	186.0	1.0	3.0	0.0	H-Horn	PK	0.0	50.8	74.0	-23.2	36 Mbps	4825.060	46.6	4.2	178.0	1.1	3.0	0.0	H-Horn	PK	0.0	50.8	74.0	-23.2	11 Mbps	4825.500	46.2	4.2	76.0	1.0	3.0	0.0	V-Horn	PK	0.0	50.4	74.0	-23.6	54 Mbps	4823.970	46.1	4.2	271.0	1.1	3.0	0.0	V-Horn	PK	0.0	50.3	74.0	-23.7	1 Mbps	4822.900	45.2	4.2	70.0	1.1	3.0	0.0	V-Horn	PK	0.0	49.4	74.0	-24.6	6 Mbps	4821.730	44.9	4.2	202.0	1.0	3.0	0.0	H-Horn	PK	0.0	49.1	74.0	-24.9	6 Mbps	4825.510	42.0	4.2	152.0	1.3	3.0	0.0	H-Horn	PK	0.0	46.2	74.0	-27.8	54 Mbps
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments																																																																																																																																																																																																																																																																																												
4823.980	46.8	4.2	178.0	1.1	3.0	0.0	H-Horn	AV	0.0	51.0	54.0	-3.0	1 Mbps																																																																																																																																																																																																																																																																																												
4823.970	42.0	4.2	271.0	1.1	3.0	0.0	V-Horn	AV	0.0	46.2	54.0	-7.8	1 Mbps																																																																																																																																																																																																																																																																																												
4822.320	34.6	4.2	186.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.8	54.0	-15.2	36 Mbps																																																																																																																																																																																																																																																																																												
4823.500	34.2	4.2	310.0	1.1	3.0	0.0	V-Horn	AV	0.0	38.4	54.0	-15.6	11 Mbps																																																																																																																																																																																																																																																																																												
4822.170	34.0	4.2	325.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	36 Mbps																																																																																																																																																																																																																																																																																												
4822.440	33.9	4.2	76.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	54 Mbps																																																																																																																																																																																																																																																																																												
4823.600	33.3	4.2	178.0	1.1	3.0	0.0	H-Horn	AV	0.0	37.5	54.0	-16.5	11 Mbps																																																																																																																																																																																																																																																																																												
4821.960	32.7	4.2	70.0	1.1	3.0	0.0	V-Horn	AV	0.0	36.9	54.0	-17.1	6 Mbps																																																																																																																																																																																																																																																																																												
4824.060	32.5	4.2	202.0	1.0	3.0	0.0	H-Horn	AV	0.0	36.7	54.0	-17.3	6 Mbps																																																																																																																																																																																																																																																																																												
4825.610	30.1	4.2	152.0	1.3	3.0	0.0	H-Horn	AV	0.0	34.3	54.0	-19.7	54 Mbps																																																																																																																																																																																																																																																																																												
4823.900	49.5	4.2	178.0	1.1	3.0	0.0	H-Horn	PK	0.0	53.7	74.0	-20.3	1 Mbps																																																																																																																																																																																																																																																																																												
4824.320	47.3	4.2	310.0	1.1	3.0	0.0	V-Horn	PK	0.0	51.5	74.0	-22.5	11 Mbps																																																																																																																																																																																																																																																																																												
4824.040	46.8	4.2	325.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.0	74.0	-23.0	36 Mbps																																																																																																																																																																																																																																																																																												
4821.510	46.6	4.2	186.0	1.0	3.0	0.0	H-Horn	PK	0.0	50.8	74.0	-23.2	36 Mbps																																																																																																																																																																																																																																																																																												
4825.060	46.6	4.2	178.0	1.1	3.0	0.0	H-Horn	PK	0.0	50.8	74.0	-23.2	11 Mbps																																																																																																																																																																																																																																																																																												
4825.500	46.2	4.2	76.0	1.0	3.0	0.0	V-Horn	PK	0.0	50.4	74.0	-23.6	54 Mbps																																																																																																																																																																																																																																																																																												
4823.970	46.1	4.2	271.0	1.1	3.0	0.0	V-Horn	PK	0.0	50.3	74.0	-23.7	1 Mbps																																																																																																																																																																																																																																																																																												
4822.900	45.2	4.2	70.0	1.1	3.0	0.0	V-Horn	PK	0.0	49.4	74.0	-24.6	6 Mbps																																																																																																																																																																																																																																																																																												
4821.730	44.9	4.2	202.0	1.0	3.0	0.0	H-Horn	PK	0.0	49.1	74.0	-24.9	6 Mbps																																																																																																																																																																																																																																																																																												
4825.510	42.0	4.2	152.0	1.3	3.0	0.0	H-Horn	PK	0.0	46.2	74.0	-27.8	54 Mbps																																																																																																																																																																																																																																																																																												

EUT:	Radical 7C+	Work Order:	MAI0057
Serial Number:	113683	Date:	05/04/10
Customer:	Masimo Corporation	Temperature:	21.7
Attendees:	None	Humidity:	41%
Project:	None	Barometric Pres.:	1020.5mb
Tested by:	Jaemi Suh	Power:	120VAC/60Hz
		Job Site:	OC11

TEST SPECIFICATIONS	Test Method
FCC 15.247:2010	ANSI C63.10:2009

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

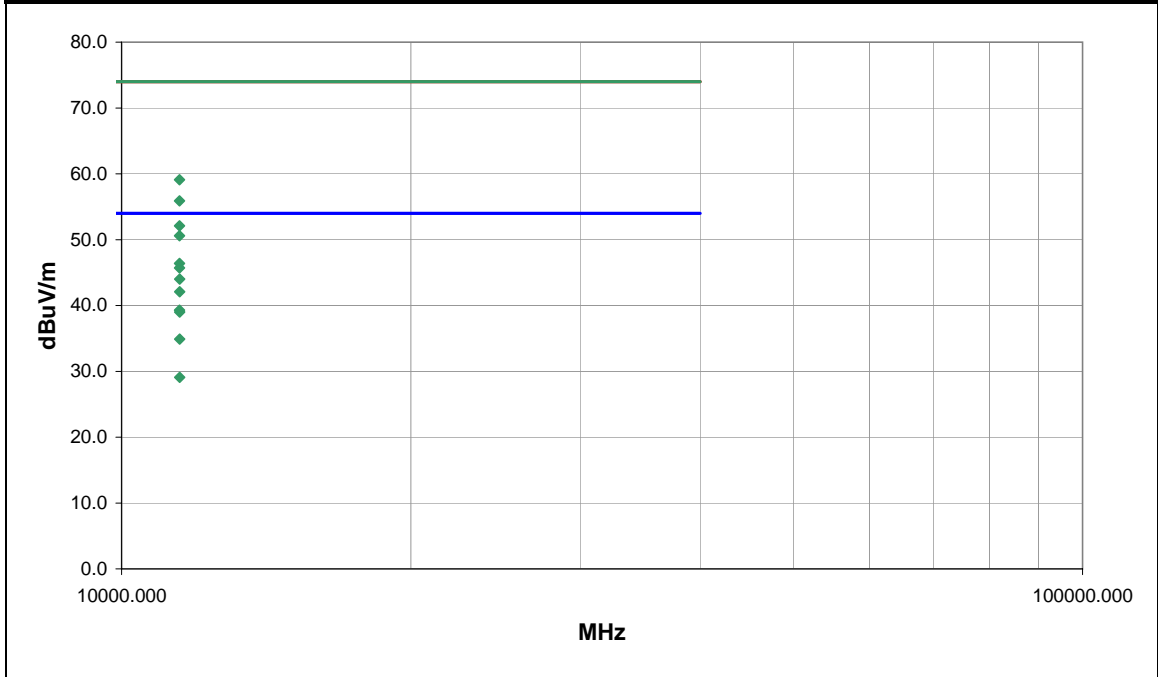
COMMENTS
Channel 149, Speed 6 mbps

EUT OPERATING MODES
Ant 1 Transmit Mode

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	6	Signature 
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
11489.930	56.2	-10.5	44.0	1.1	0.0	0.0	H-Horn	AV	0.0	45.7	54.0	-8.3	6 mbps
11491.410	54.5	-10.5	45.0	1.1	0.0	0.0	H-Horn	AV	0.0	44.0	54.0	-10.0	54 mbps
11489.950	49.8	-10.5	65.0	1.2	0.0	0.0	V-Horn	AV	0.0	39.3	54.0	-14.7	6 mbps
11490.370	69.6	-10.5	44.0	1.1	0.0	0.0	H-Horn	PK	0.0	59.1	74.0	-14.9	6 mbps
11491.510	49.5	-10.5	111.0	1.2	0.0	0.0	V-Horn	AV	0.0	39.0	54.0	-15.0	54 mbps
11488.830	66.4	-10.5	45.0	1.1	0.0	0.0	H-Horn	PK	0.0	55.9	74.0	-18.1	54 mbps
11491.500	45.4	-10.5	11.0	1.3	0.0	0.0	V-Horn	AV	0.0	34.9	54.0	-19.1	36 mbps
11489.980	62.6	-10.5	65.0	1.2	0.0	0.0	V-Horn	PK	0.0	52.1	74.0	-21.9	6 mbps
11488.590	61.1	-10.5	111.0	1.2	0.0	0.0	V-Horn	PK	0.0	50.6	74.0	-23.4	54 mbps
11491.290	39.6	-10.5	359.0	1.2	0.0	0.0	H-Horn	AV	0.0	29.1	54.0	-24.9	36 mbps
11489.600	56.9	-10.5	11.0	1.3	0.0	0.0	V-Horn	PK	0.0	46.4	74.0	-27.6	36 mbps
11492.050	52.6	-10.5	359.0	1.2	0.0	0.0	H-Horn	PK	0.0	42.1	74.0	-31.9	36 mbps

EUT:	Radical 7C+	Work Order:	MASI0057
Serial Number:	113683	Date:	05/04/10
Customer:	Masimo Corporation	Temperature:	21.7
Attendees:	None	Humidity:	41%
Project:	None	Barometric Pres.:	1020.5mb
Tested by:	Jaemi Suh	Power:	120VAC/60Hz
		Job Site:	OC11

TEST SPECIFICATIONS	Test Method
FCC 15.247:2010	ANSI C63.10:2009

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
Channel 157, Speed 6 mbps

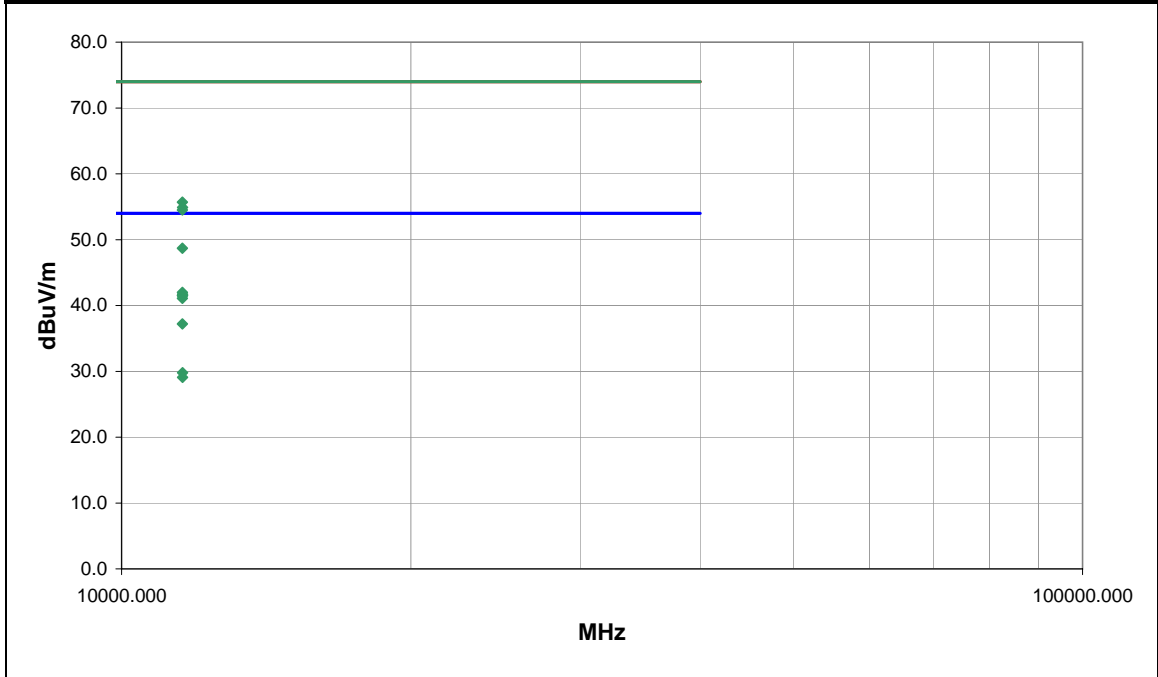
EUT OPERATING MODES

Ant 1 Transmit Mode

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	7	Signature 
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
11569.090	52.3	-10.3	49.0	1.2	3.0	0.0	H-Horn	AV	0.0	42.0	54.0	-12.0	54 mbps
11571.110	51.8	-10.3	46.0	1.2	3.0	0.0	H-Horn	AV	0.0	41.5	54.0	-12.5	36 mbps
11570.010	51.4	-10.3	133.0	1.2	3.0	0.0	H-Horn	AV	0.0	41.1	54.0	-12.9	6 mbps
11568.870	47.5	-10.3	118.0	1.1	3.0	0.0	V-Horn	AV	0.0	37.2	54.0	-16.8	54 mbps
11570.440	66.0	-10.3	133.0	1.2	3.0	0.0	H-Horn	PK	0.0	55.7	74.0	-18.3	6 mbps
11571.010	65.2	-10.3	46.0	1.2	3.0	0.0	H-Horn	PK	0.0	54.9	74.0	-19.1	36 mbps
11568.100	64.8	-10.3	49.0	1.2	3.0	0.0	H-Horn	PK	0.0	54.5	74.0	-19.5	54 mbps
11571.250	40.1	-10.3	176.0	1.1	3.0	0.0	V-Horn	AV	0.0	29.8	54.0	-24.2	36 mbps
11572.190	39.4	-10.3	172.0	1.5	3.0	0.0	V-Horn	AV	0.0	29.1	54.0	-24.9	6 mbps
11568.490	59.0	-10.3	118.0	1.1	3.0	0.0	V-Horn	PK	0.0	48.7	74.0	-25.3	54 mbps
11571.400	52.0	-10.3	176.0	1.1	3.0	0.0	V-Horn	PK	0.0	41.7	74.0	-32.3	36 mbps
11570.020	51.8	-10.3	172.0	1.5	3.0	0.0	V-Horn	PK	0.0	41.5	74.0	-32.5	6 mbps

EUT:	Radical 7C+	Work Order:	MAI0057
Serial Number:	113683	Date:	05/04/10
Customer:	Masimo Corporation	Temperature:	21.7
Attendees:	None	Humidity:	41%
Project:	None	Barometric Pres.:	1020.5mb
Tested by:	Jaemi Suh	Power:	120VAC/60Hz
		Job Site:	OC11


TEST SPECIFICATIONS	Test Method
FCC 15.247:2010	ANSI C63.10:2009

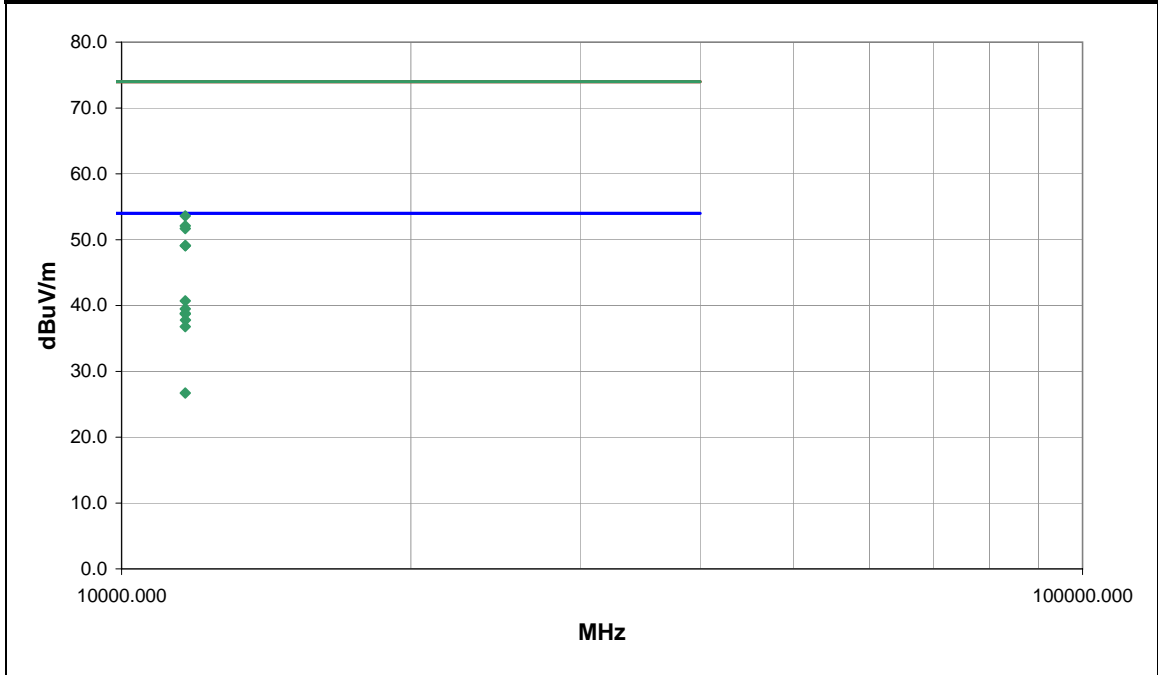
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
Channel 165, Speed 6 mbps

EUT OPERATING MODES
Ant 1 Transmit Mode

DEVIATIONS FROM TEST STANDARD

No deviations.		
Run #	8	<div>Signature </div>
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
11648.540	50.9	-10.2	95.0	1.4	3.0	0.0	H-Horn	AV	0.0	40.7	54.0	-13.3	36 mbps
11649.970	49.7	-10.2	127.0	1.2	3.0	0.0	H-Horn	AV	0.0	39.5	54.0	-14.5	6 mbps
11648.370	49.0	-10.2	2.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.8	54.0	-15.2	36 mbps
11651.470	48.0	-10.2	168.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.8	54.0	-16.2	54 mbps
11648.010	47.0	-10.2	132.0	1.2	3.0	0.0	V-Horn	AV	0.0	36.8	54.0	-17.2	6 mbps
11648.320	63.8	-10.2	95.0	1.4	3.0	0.0	H-Horn	PK	0.0	53.6	74.0	-20.4	36 mbps
11648.120	62.3	-10.2	127.0	1.2	3.0	0.0	H-Horn	PK	0.0	52.1	74.0	-21.9	6 mbps
11650.110	61.9	-10.2	2.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.7	74.0	-22.3	36 mbps
11649.830	59.3	-10.2	132.0	1.2	3.0	0.0	V-Horn	PK	0.0	49.1	74.0	-24.9	6 mbps
11650.850	59.3	-10.2	168.0	1.0	3.0	0.0	H-Horn	PK	0.0	49.1	74.0	-24.9	54 mbps
11647.690	36.9	-10.2	188.0	1.0	3.0	0.0	V-Horn	AV	0.0	26.7	54.0	-27.3	54 mbps
11650.140	48.9	-10.2	188.0	1.0	3.0	0.0	V-Horn	PK	0.0	38.7	74.0	-35.3	54 mbps

EUT:	Radical 7C+	Work Order:	MAI0057
Serial Number:	113683	Date:	05/04/10
Customer:	Masimo Corporation	Temperature:	21.7
Attendees:	None	Humidity:	41%
Project:	None	Barometric Pres.:	1020.5mb
Tested by:	Jaemi Suh	Power:	120VAC/60Hz
		Job Site:	OC11


TEST SPECIFICATIONS	Test Method
FCC 15.247:2010	ANSI C63.10:2009

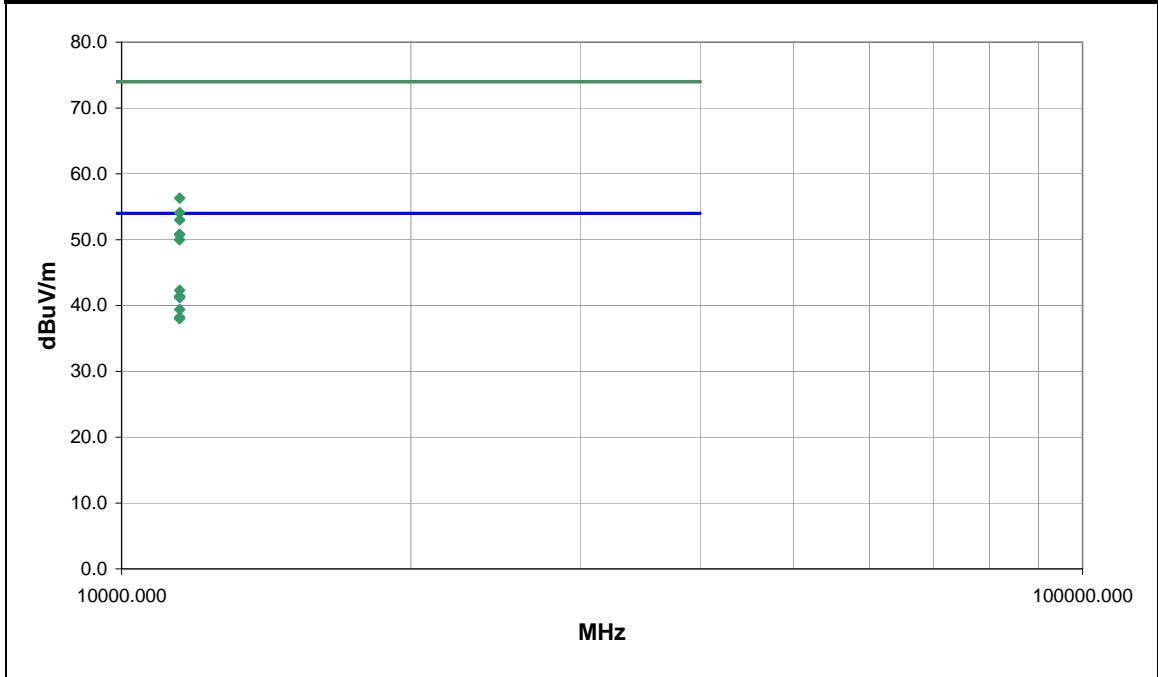
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
Channel 149, Speed 6 mbps

EUT OPERATING MODES
An t 2 Transmit Mode

DEVIATIONS FROM TEST STANDARD

No deviations.		
Run #	9	
Configuration #	1	
Results	Pass	
		Signature 



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
11492.130	52.8	-10.5	50.0	1.2	3.0	0.0	H-Horn	AV	0.0	42.3	54.0	-11.7	6 mbps
11491.530	51.9	-10.5	50.0	1.2	3.0	0.0	H-Horn	AV	0.0	41.4	54.0	-12.6	36 mbps
11491.560	51.7	-10.5	81.0	1.1	3.0	0.0	H-Horn	AV	0.0	41.2	54.0	-12.8	54 mbps
11491.400	49.9	-10.5	10.0	1.2	3.0	0.0	V-Horn	AV	0.0	39.4	54.0	-14.6	54 mbps
11491.390	48.7	-10.5	1.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	36 mbps
11490.010	48.5	-10.5	1.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.0	54.0	-16.0	6 mbps
11494.580	66.8	-10.5	50.0	1.2	3.0	0.0	H-Horn	PK	0.0	56.3	74.0	-17.7	6 mbps
11491.170	64.6	-10.5	50.0	1.2	3.0	0.0	H-Horn	PK	0.0	54.1	74.0	-19.9	36 mbps
11490.970	63.5	-10.5	81.0	1.1	3.0	0.0	H-Horn	PK	0.0	53.0	74.0	-21.0	54 mbps
11487.710	61.3	-10.5	1.0	1.2	3.0	0.0	V-Horn	PK	0.0	50.8	74.0	-23.2	6 mbps
11491.320	61.3	-10.5	10.0	1.2	3.0	0.0	V-Horn	PK	0.0	50.8	74.0	-23.2	54 mbps
11488.240	60.5	-10.5	1.0	1.2	3.0	0.0	V-Horn	PK	0.0	50.0	74.0	-24.0	36 mbps

NORTHWEST		PSA 2008.07.21 EMI 2009.8.29																																																																																																																																																																																							
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<table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>Freq (MHz)</th> <th>Amplitude (dBuV)</th> <th>Factor (dB)</th> <th>Azimuth (degrees)</th> <th>Height (meters)</th> <th>Distance (meters)</th> <th>External Attenuation (dB)</th> <th>Polarity</th> <th>Detector</th> <th>Distance Adjustment (dB)</th> <th>Adjusted dBuV/m</th> <th>Spec. Limit dBuV/m</th> <th>Compared to Spec. (dB)</th> <th>Comments</th> </tr> </thead> <tbody> <tr><td>11571.520</td><td>51.0</td><td>-10.3</td><td>142.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>40.7</td><td>54.0</td><td>-13.3</td><td>36 mbps</td></tr> <tr><td>11569.100</td><td>50.9</td><td>-10.3</td><td>143.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>40.6</td><td>54.0</td><td>-13.4</td><td>54 mbps</td></tr> <tr><td>11571.670</td><td>47.0</td><td>-10.3</td><td>115.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>36.7</td><td>54.0</td><td>-17.3</td><td>36 mbps</td></tr> <tr><td>11570.030</td><td>45.8</td><td>-10.3</td><td>114.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>35.5</td><td>54.0</td><td>-18.5</td><td>6 mbps</td></tr> <tr><td>11569.990</td><td>45.4</td><td>-10.3</td><td>94.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>35.1</td><td>54.0</td><td>-18.9</td><td>6 mbps</td></tr> <tr><td>11568.920</td><td>43.6</td><td>-10.3</td><td>143.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>33.3</td><td>54.0</td><td>-20.7</td><td>54 mbps</td></tr> <tr><td>11570.530</td><td>63.6</td><td>-10.3</td><td>142.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>53.3</td><td>74.0</td><td>-20.7</td><td>36 mbps</td></tr> <tr><td>11572.540</td><td>62.6</td><td>-10.3</td><td>143.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>52.3</td><td>74.0</td><td>-21.7</td><td>54 mbps</td></tr> <tr><td>11569.720</td><td>59.6</td><td>-10.3</td><td>94.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>49.3</td><td>74.0</td><td>-24.7</td><td>6 mbps</td></tr> <tr><td>11570.960</td><td>59.6</td><td>-10.3</td><td>115.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>49.3</td><td>74.0</td><td>-24.7</td><td>36 mbps</td></tr> <tr><td>11571.420</td><td>58.2</td><td>-10.3</td><td>114.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>47.9</td><td>74.0</td><td>-26.1</td><td>6 mbps</td></tr> <tr><td>11571.550</td><td>54.1</td><td>-10.3</td><td>143.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>43.8</td><td>74.0</td><td>-30.2</td><td>54 mbps</td></tr> </tbody> </table>				Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments	11571.520	51.0	-10.3	142.0	1.2	3.0	0.0	H-Horn	AV	0.0	40.7	54.0	-13.3	36 mbps	11569.100	50.9	-10.3	143.0	1.2	3.0	0.0	H-Horn	AV	0.0	40.6	54.0	-13.4	54 mbps	11571.670	47.0	-10.3	115.0	1.2	3.0	0.0	V-Horn	AV	0.0	36.7	54.0	-17.3	36 mbps	11570.030	45.8	-10.3	114.0	1.2	3.0	0.0	V-Horn	AV	0.0	35.5	54.0	-18.5	6 mbps	11569.990	45.4	-10.3	94.0	1.2	3.0	0.0	H-Horn	AV	0.0	35.1	54.0	-18.9	6 mbps	11568.920	43.6	-10.3	143.0	1.1	3.0	0.0	V-Horn	AV	0.0	33.3	54.0	-20.7	54 mbps	11570.530	63.6	-10.3	142.0	1.2	3.0	0.0	H-Horn	PK	0.0	53.3	74.0	-20.7	36 mbps	11572.540	62.6	-10.3	143.0	1.2	3.0	0.0	H-Horn	PK	0.0	52.3	74.0	-21.7	54 mbps	11569.720	59.6	-10.3	94.0	1.2	3.0	0.0	H-Horn	PK	0.0	49.3	74.0	-24.7	6 mbps	11570.960	59.6	-10.3	115.0	1.2	3.0	0.0	V-Horn	PK	0.0	49.3	74.0	-24.7	36 mbps	11571.420	58.2	-10.3	114.0	1.2	3.0	0.0	V-Horn	PK	0.0	47.9	74.0	-26.1	6 mbps	11571.550	54.1	-10.3	143.0	1.1	3.0	0.0	V-Horn	PK	0.0	43.8	74.0	-30.2	54 mbps
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments																																																																																																																																																																												
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NORTHWEST		PSA 2008.07.21 EMI 2009.8.29																																																																																																																																																																																							
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Results	Pass																																																																																																																																																																																								
<table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>Freq (MHz)</th> <th>Amplitude (dBuV)</th> <th>Factor (dB)</th> <th>Azimuth (degrees)</th> <th>Height (meters)</th> <th>Distance (meters)</th> <th>External Attenuation (dB)</th> <th>Polarity</th> <th>Detector</th> <th>Distance Adjustment (dB)</th> <th>Adjusted dBuV/m</th> <th>Spec. Limit dBuV/m</th> <th>Compared to Spec. (dB)</th> <th>Comments</th> </tr> </thead> <tbody> <tr><td>11649.960</td><td>49.2</td><td>-10.2</td><td>134.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>39.0</td><td>54.0</td><td>-15.0</td><td>6 mbps</td></tr> <tr><td>11651.200</td><td>48.5</td><td>-10.2</td><td>133.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>38.3</td><td>54.0</td><td>-15.7</td><td>36 mbps</td></tr> <tr><td>11648.910</td><td>47.5</td><td>-10.2</td><td>135.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>37.3</td><td>54.0</td><td>-16.7</td><td>54 mbps</td></tr> <tr><td>11648.880</td><td>46.7</td><td>-10.2</td><td>131.0</td><td>1.5</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>36.5</td><td>54.0</td><td>-17.5</td><td>54 mbps</td></tr> <tr><td>11649.880</td><td>46.1</td><td>-10.2</td><td>120.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>35.9</td><td>54.0</td><td>-18.1</td><td>6 mbps</td></tr> <tr><td>11645.850</td><td>62.1</td><td>-10.2</td><td>134.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>51.9</td><td>74.0</td><td>-22.1</td><td>6 mbps</td></tr> <tr><td>11647.380</td><td>61.4</td><td>-10.2</td><td>133.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>51.2</td><td>74.0</td><td>-22.8</td><td>36 mbps</td></tr> <tr><td>11649.290</td><td>59.5</td><td>-10.2</td><td>120.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>49.3</td><td>74.0</td><td>-24.7</td><td>6 mbps</td></tr> <tr><td>11648.600</td><td>59.2</td><td>-10.2</td><td>135.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>49.0</td><td>74.0</td><td>-25.0</td><td>54 mbps</td></tr> <tr><td>11651.090</td><td>58.3</td><td>-10.2</td><td>131.0</td><td>1.5</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>48.1</td><td>74.0</td><td>-25.9</td><td>54 mbps</td></tr> <tr><td>11651.170</td><td>37.9</td><td>-10.2</td><td>168.0</td><td>1.5</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>27.7</td><td>54.0</td><td>-26.3</td><td>36 mbps</td></tr> <tr><td>11648.940</td><td>50.2</td><td>-10.2</td><td>168.0</td><td>1.5</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>40.0</td><td>74.0</td><td>-34.0</td><td>36 mbps</td></tr> </tbody> </table>				Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments	11649.960	49.2	-10.2	134.0	1.2	3.0	0.0	H-Horn	AV	0.0	39.0	54.0	-15.0	6 mbps	11651.200	48.5	-10.2	133.0	1.2	3.0	0.0	H-Horn	AV	0.0	38.3	54.0	-15.7	36 mbps	11648.910	47.5	-10.2	135.0	1.2	3.0	0.0	H-Horn	AV	0.0	37.3	54.0	-16.7	54 mbps	11648.880	46.7	-10.2	131.0	1.5	3.0	0.0	V-Horn	AV	0.0	36.5	54.0	-17.5	54 mbps	11649.880	46.1	-10.2	120.0	1.2	3.0	0.0	V-Horn	AV	0.0	35.9	54.0	-18.1	6 mbps	11645.850	62.1	-10.2	134.0	1.2	3.0	0.0	H-Horn	PK	0.0	51.9	74.0	-22.1	6 mbps	11647.380	61.4	-10.2	133.0	1.2	3.0	0.0	H-Horn	PK	0.0	51.2	74.0	-22.8	36 mbps	11649.290	59.5	-10.2	120.0	1.2	3.0	0.0	V-Horn	PK	0.0	49.3	74.0	-24.7	6 mbps	11648.600	59.2	-10.2	135.0	1.2	3.0	0.0	H-Horn	PK	0.0	49.0	74.0	-25.0	54 mbps	11651.090	58.3	-10.2	131.0	1.5	3.0	0.0	V-Horn	PK	0.0	48.1	74.0	-25.9	54 mbps	11651.170	37.9	-10.2	168.0	1.5	3.0	0.0	V-Horn	AV	0.0	27.7	54.0	-26.3	36 mbps	11648.940	50.2	-10.2	168.0	1.5	3.0	0.0	V-Horn	PK	0.0	40.0	74.0	-34.0	36 mbps
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments																																																																																																																																																																												
11649.960	49.2	-10.2	134.0	1.2	3.0	0.0	H-Horn	AV	0.0	39.0	54.0	-15.0	6 mbps																																																																																																																																																																												
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11648.880	46.7	-10.2	131.0	1.5	3.0	0.0	V-Horn	AV	0.0	36.5	54.0	-17.5	54 mbps																																																																																																																																																																												
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11645.850	62.1	-10.2	134.0	1.2	3.0	0.0	H-Horn	PK	0.0	51.9	74.0	-22.1	6 mbps																																																																																																																																																																												
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11648.600	59.2	-10.2	135.0	1.2	3.0	0.0	H-Horn	PK	0.0	49.0	74.0	-25.0	54 mbps																																																																																																																																																																												
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11651.170	37.9	-10.2	168.0	1.5	3.0	0.0	V-Horn	AV	0.0	27.7	54.0	-26.3	36 mbps																																																																																																																																																																												
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NORTHWEST										PSA 2008.07.21 EMI 2009.8.29			
EMC SPURIOUS RADIATED EMISSIONS DATA SHEET													
EUT: Radical 7C+								Work Order: MASI0057					
Serial Number: 113683								Date: 05/05/10					
Customer: Masimo Corporation								Temperature: 21.7					
Attendees: None								Humidity: 41%					
Project: None								Barometric Pres.: 1020.5mb					
Tested by: Jaemi Suh				Power: 120V/60Hz				Job Site: OC11					
TEST SPECIFICATIONS													
FCC 15.247:2010								Test Method ANSI C63.10:2009					
TEST PARAMETERS													
Antenna Height(s) (m)				1 - 4				Test Distance (m)				1	
COMMENTS													
Channels 149, 157, 165. 6 Mbps.													
EUT OPERATING MODES													
Transmit Mode													
DEVIATIONS FROM TEST STANDARD													
No deviations.													
Run #		17		<div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;">Signature</div> </div>									
Configuration #		1											
Results		Pass											
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted unknown units	Spec. Limit unknown units	Compared to Spec. (dB)	
23299.92	42.2	-0.4	104.0	1.0	1.0	0.0	-I-High Horr	AV	-9.5	32.3	54.0	-21.7	
23141.17	41.5	-0.4	103.0	1.0	1.0	0.0	-I-High Horr	AV	-9.5	31.6	54.0	-22.4	
22979.6	41.2	-0.3	106.0	1.0	1.0	0.0	√-High Horr	AV	-9.5	31.4	54.0	-22.6	
23292.25	56.8	-0.4	104.0	1.0	1.0	0.0	-I-High Horr	PK	-9.5	46.9	74.0	-27.1	
23301.5	36.4	-0.4	59.0	1.0	1.0	0.0	√-High Horr	AV	-9.5	26.5	54.0	-27.5	
23147.75	56.0	-0.4	103.0	1.0	1.0	0.0	-I-High Horr	PK	-9.5	46.1	74.0	-27.9	
23140.5	35.6	-0.4	58.0	1.0	1.0	0.0	√-High Horr	AV	-9.5	25.7	54.0	-28.3	
22979.68	35.4	-0.3	36.0	1.0	1.0	0.0	√-High Horr	AV	-9.5	25.6	54.0	-28.4	
22972.68	54.0	-0.3	106.0	1.0	1.0	0.0	√-High Horr	PK	-9.5	44.2	74.0	-29.8	
23288.25	49.5	-0.5	59.0	1.0	1.0	0.0	√-High Horr	PK	-9.5	39.5	74.0	-34.5	
23147.33	47.6	-0.4	58.0	1.0	1.0	0.0	√-High Horr	PK	-9.5	37.7	74.0	-36.3	
22981.02	47.2	-0.3	36.0	1.0	1.0	0.0	√-High Horr	PK	-9.5	37.4	74.0	-36.6	

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

CHANNELS INVESTIGATED

Channel 1, 2412 MHz

Channel 6, 2437 MHz

Channel 11, 2462 MHz

Channel 149, 5745 MHz

Channel 157, 5785 MHz

Channel 165, 5825 MHz

DATA RATES INVESTIGATED

1, 6, Mbps

POWER SETTINGS INVESTIGATED

120V/60Hz

CONFIGURATIONS INVESTIGATED

MASI0057 - 1

SAMPLE CALCULATIONS

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
LISN	Solar	9252-50-24-BNC	LIA	4/29/2009	13 mo
Attenuator	Pasternack	6N10W-20	AWC	1/27/2010	13 mo
High Pass Filter	TTE	H97-100K-50-720B	HFP	3/8/2010	13 mo
OC06 Cables	N/A	CE Cables	OCM	3/8/2010	13 mo
Receiver	Rohde & Schwarz	ESCI	ARF	3/30/2010	13 mo

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0


Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

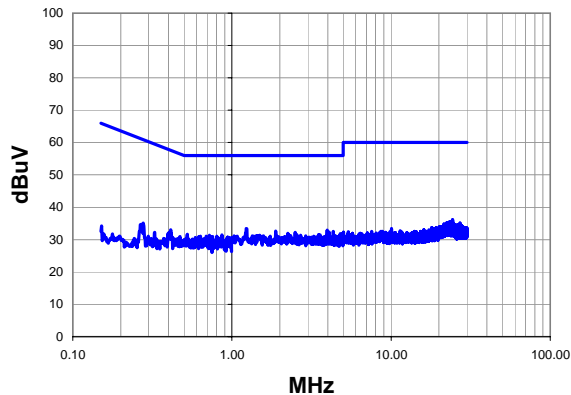
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

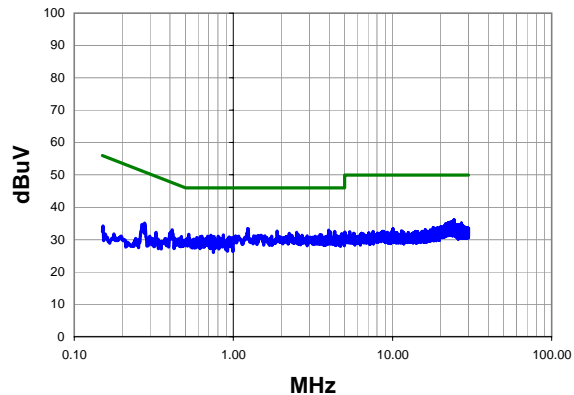
Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50ohm measuring port is terminated by a 50ohm EMI meter or a 50ohm resistive load. All 50ohm measuring ports of the LISN are terminated by 50ohm.

Work Order:	MASI0057	Date:	05/03/10		
Project:	None	Temperature:	21.38		
Job Site:	OC06	Humidity:	42.06		
Serial Number:	113683	Barometric Pres.:	1020.5mb	Tested by: Mark Baytan	
EUT:	Radical 7C+				
Configuration:	1				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	120V/60Hz				
Operating Mode:	Transmit Mode				
Deviations:	None				
Comments:	Channel 1, Speed 1mbps				
Test Specifications FCC 15.207:2010			Test Method ANSI C63.10:2009		
Run #	2	Line:	High Line	Ext. Attenuation: 20	Results Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit




Peak Data - vs - Quasi Peak Limit

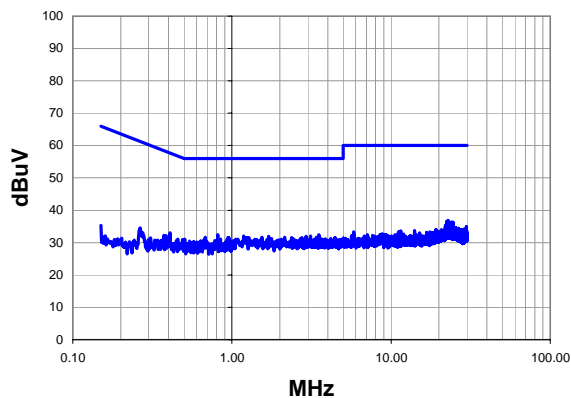
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
1.232	13.3	20.1	33.4	56.0	-22.6
3.960	12.7	20.2	32.9	56.0	-23.1
1.880	12.5	20.1	32.6	56.0	-23.4
4.336	12.3	20.2	32.5	56.0	-23.5
4.088	12.1	20.2	32.3	56.0	-23.7
2.496	12.1	20.1	32.2	56.0	-23.8
24.380	14.7	21.4	36.1	60.0	-23.9
24.240	14.6	21.4	36.0	60.0	-24.0
2.240	11.8	20.1	31.9	56.0	-24.1
4.976	11.6	20.3	31.9	56.0	-24.1
0.524	11.6	20.1	31.7	56.0	-24.3
3.504	11.4	20.2	31.6	56.0	-24.4
0.866	11.4	20.1	31.5	56.0	-24.5
23.210	14.2	21.3	35.5	60.0	-24.5
23.560	14.1	21.3	35.4	60.0	-24.6
0.723	11.3	20.1	31.4	56.0	-24.6
0.412	12.9	20.1	33.0	57.6	-24.6
4.464	11.1	20.2	31.3	56.0	-24.7
22.940	14.0	21.3	35.3	60.0	-24.7
22.450	13.9	21.3	35.2	60.0	-24.8

Peak Data - vs - Average Limit

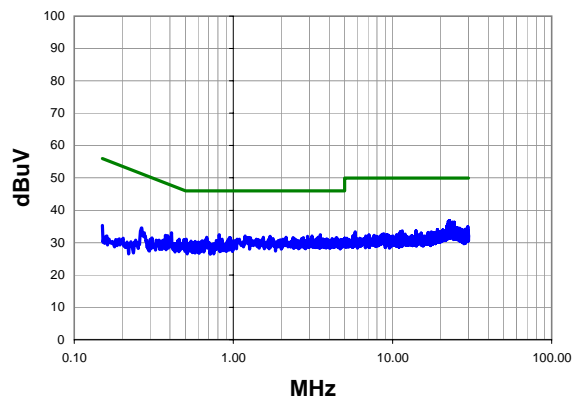
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
1.232	13.3	20.1	33.4	46.0	-12.6
3.960	12.7	20.2	32.9	46.0	-13.1
1.880	12.5	20.1	32.6	46.0	-13.4
4.336	12.3	20.2	32.5	46.0	-13.5
4.088	12.1	20.2	32.3	46.0	-13.7
2.496	12.1	20.1	32.2	46.0	-13.8
24.380	14.7	21.4	36.1	50.0	-13.9
24.240	14.6	21.4	36.0	50.0	-14.0
2.240	11.8	20.1	31.9	46.0	-14.1
4.976	11.6	20.3	31.9	46.0	-14.1
0.524	11.6	20.1	31.7	46.0	-14.3
3.504	11.4	20.2	31.6	46.0	-14.4
0.866	11.4	20.1	31.5	46.0	-14.5
23.210	14.2	21.3	35.5	50.0	-14.5
23.560	14.1	21.3	35.4	50.0	-14.6
0.723	11.3	20.1	31.4	46.0	-14.6
0.412	12.9	20.1	33.0	47.6	-14.6
4.464	11.1	20.2	31.3	46.0	-14.7
22.940	14.0	21.3	35.3	50.0	-14.7
22.450	13.9	21.3	35.2	50.0	-14.8

Work Order:	MASI0057	Date:	05/03/10				
Project:	None	Temperature:	21.38				
Job Site:	OC06	Humidity:	42.06				
Serial Number:	113683	Barometric Pres.:	1020.5mb	Tested by: Mark Baytan			
EUT:	Radical 7C+						
Configuration:	1						
Customer:	Masimo Corporation						
Attendees:	None						
EUT Power:	120V/60Hz						
Operating Mode:	Transmit Mode						
Deviations:	None						
Comments:	Channel 1, Speed 1mbps						
Test Specifications FCC 15.207:2010			Test Method ANSI C63.10:2009				
Run #	3	Line:	Neutral	Ext. Attenuation:	20	Results	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit




Peak Data - vs - Quasi Peak Limit

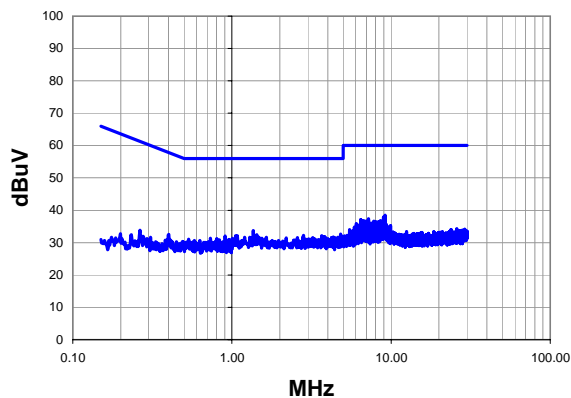
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
22.840	15.5	21.3	36.8	60.0	-23.2
22.430	15.3	21.3	36.6	60.0	-23.4
0.815	12.3	20.1	32.4	56.0	-23.6
3.520	12.2	20.2	32.4	56.0	-23.6
23.880	14.9	21.4	36.3	60.0	-23.7
24.480	14.9	21.4	36.3	60.0	-23.7
1.184	11.9	20.1	32.0	56.0	-24.0
3.112	11.8	20.2	32.0	56.0	-24.0
1.704	11.8	20.1	31.9	56.0	-24.1
2.928	11.7	20.2	31.9	56.0	-24.1
0.679	11.6	20.1	31.7	56.0	-24.3
1.544	11.6	20.1	31.7	56.0	-24.3
2.144	11.6	20.1	31.7	56.0	-24.3
3.408	11.5	20.2	31.7	56.0	-24.3
0.944	11.5	20.1	31.6	56.0	-24.4
1.272	11.5	20.1	31.6	56.0	-24.4
2.752	11.4	20.2	31.6	56.0	-24.4
22.170	14.3	21.3	35.6	60.0	-24.4
0.959	11.4	20.1	31.5	56.0	-24.5
4.416	11.3	20.2	31.5	56.0	-24.5

Peak Data - vs - Average Limit

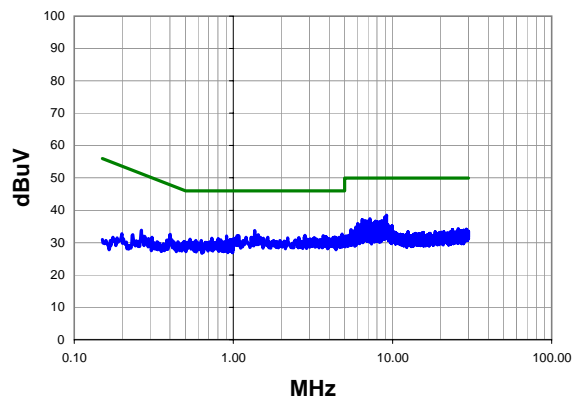
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
22.840	15.5	21.3	36.8	50.0	-13.2
22.430	15.3	21.3	36.6	50.0	-13.4
0.815	12.3	20.1	32.4	46.0	-13.6
3.520	12.2	20.2	32.4	46.0	-13.6
23.880	14.9	21.4	36.3	50.0	-13.7
24.480	14.9	21.4	36.3	50.0	-13.7
1.184	11.9	20.1	32.0	46.0	-14.0
3.112	11.8	20.2	32.0	46.0	-14.0
1.704	11.8	20.1	31.9	46.0	-14.1
2.928	11.7	20.2	31.9	46.0	-14.1
0.679	11.6	20.1	31.7	46.0	-14.3
1.544	11.6	20.1	31.7	46.0	-14.3
2.144	11.6	20.1	31.7	46.0	-14.3
3.408	11.5	20.2	31.7	46.0	-14.3
0.944	11.5	20.1	31.6	46.0	-14.4
1.272	11.5	20.1	31.6	46.0	-14.4
2.752	11.4	20.2	31.6	46.0	-14.4
22.170	14.3	21.3	35.6	50.0	-14.4
0.959	11.4	20.1	31.5	46.0	-14.5
4.416	11.3	20.2	31.5	46.0	-14.5

Work Order:	MASI0057	Date:	05/03/10		
Project:	None	Temperature:	21.38		
Job Site:	OC06	Humidity:	42.06		
Serial Number:	113683	Barometric Pres.:	1020.5mb	Tested by: Mark Baytan	
EUT:	Radical 7C+				
Configuration:	1				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	120V/60Hz				
Operating Mode:	Transmit Mode				
Deviations:	None				
Comments:	Channel 6, Speed 1mbps				
Test Specifications FCC 15.207:2010			Test Method ANSI C63.10:2009		
Run #	4	Line:	High Line	Ext. Attenuation: 20	Results Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit




Peak Data - vs - Quasi Peak Limit

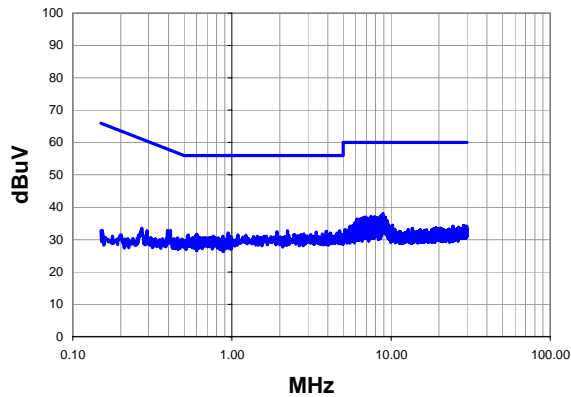
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
9.160	18.0	20.5	38.5	60.0	-21.5
8.960	17.5	20.4	37.9	60.0	-22.1
1.360	13.6	20.1	33.7	56.0	-22.3
7.220	17.0	20.4	37.4	60.0	-22.6
6.450	16.7	20.3	37.0	60.0	-23.0
8.570	16.4	20.4	36.8	60.0	-23.2
6.650	16.4	20.4	36.8	60.0	-23.2
6.830	16.3	20.4	36.7	60.0	-23.3
7.030	16.3	20.4	36.7	60.0	-23.3
4.816	12.4	20.3	32.7	56.0	-23.3
7.800	16.2	20.4	36.6	60.0	-23.4
8.440	16.1	20.4	36.5	60.0	-23.5
7.990	16.0	20.4	36.4	60.0	-23.6
8.190	16.0	20.4	36.4	60.0	-23.6
7.250	15.9	20.4	36.3	60.0	-23.7
8.780	15.9	20.4	36.3	60.0	-23.7
2.816	12.0	20.2	32.2	56.0	-23.8
1.056	12.0	20.1	32.1	56.0	-23.9
3.672	11.9	20.2	32.1	56.0	-23.9
7.610	15.7	20.4	36.1	60.0	-23.9

Peak Data - vs - Average Limit

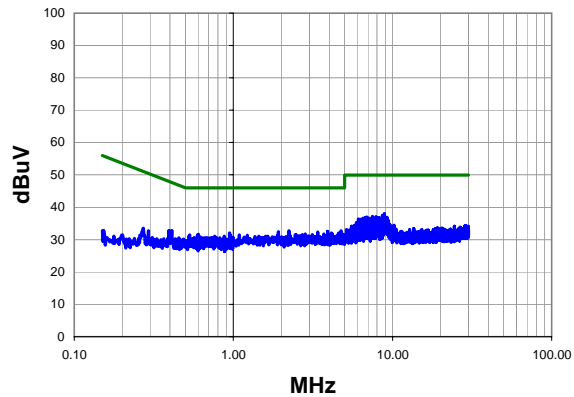
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
9.160	18.0	20.5	38.5	50.0	-11.5
8.960	17.5	20.4	37.9	50.0	-12.1
1.360	13.6	20.1	33.7	46.0	-12.3
7.220	17.0	20.4	37.4	50.0	-12.6
6.450	16.7	20.3	37.0	50.0	-13.0
8.570	16.4	20.4	36.8	50.0	-13.2
6.650	16.4	20.4	36.8	50.0	-13.2
6.830	16.3	20.4	36.7	50.0	-13.3
7.030	16.3	20.4	36.7	50.0	-13.3
4.816	12.4	20.3	32.7	46.0	-13.3
7.800	16.2	20.4	36.6	50.0	-13.4
8.440	16.1	20.4	36.5	50.0	-13.5
7.990	16.0	20.4	36.4	50.0	-13.6
8.190	16.0	20.4	36.4	50.0	-13.6
7.250	15.9	20.4	36.3	50.0	-13.7
8.780	15.9	20.4	36.3	50.0	-13.7
2.816	12.0	20.2	32.2	46.0	-13.8
1.056	12.0	20.1	32.1	46.0	-13.9
3.672	11.9	20.2	32.1	46.0	-13.9
7.610	15.7	20.4	36.1	50.0	-13.9

Work Order:	MASI0057	Date:	05/03/10		
Project:	None	Temperature:	21.38		
Job Site:	OC06	Humidity:	42.06		
Serial Number:	113683	Barometric Pres.:	1020.5mb		
EUT:	Radical 7C+				
Configuration:	1				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	120V/60Hz				
Operating Mode:	Transmit Mode				
Deviations:	None				
Comments:	Channel 6, Speed 1mbps				
Test Specifications FCC 15.207:2010				Test Method ANSI C63.10:2009	
Run #	5	Line:	Neutral	Ext. Attenuation:	20
Results				Pass	

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit




Peak Data - vs - Quasi Peak Limit

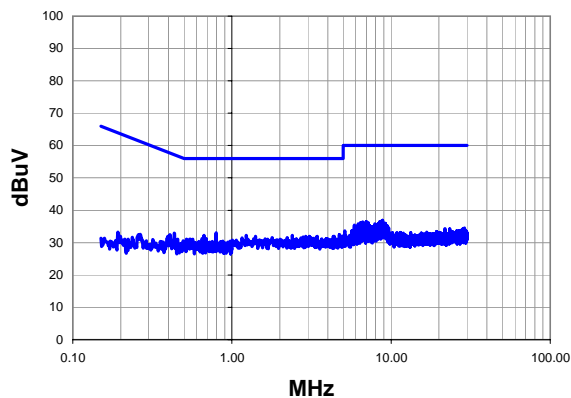
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.860	17.7	20.4	38.1	60.0	-21.9
8.640	17.0	20.4	37.4	60.0	-22.6
7.470	16.8	20.4	37.2	60.0	-22.8
6.890	16.6	20.4	37.0	60.0	-23.0
7.870	16.6	20.4	37.0	60.0	-23.0
8.700	16.6	20.4	37.0	60.0	-23.0
9.220	16.4	20.5	36.9	60.0	-23.1
2.232	12.6	20.1	32.7	56.0	-23.3
4.744	12.5	20.2	32.7	56.0	-23.3
7.090	16.3	20.4	36.7	60.0	-23.3
8.060	16.3	20.4	36.7	60.0	-23.3
8.250	16.3	20.4	36.7	60.0	-23.3
8.890	16.3	20.4	36.7	60.0	-23.3
6.700	16.3	20.4	36.7	60.0	-23.3
6.500	16.2	20.4	36.6	60.0	-23.4
3.912	12.3	20.2	32.5	56.0	-23.5
1.920	12.3	20.1	32.4	56.0	-23.6
6.110	16.1	20.3	36.4	60.0	-23.6
6.310	16.0	20.3	36.3	60.0	-23.7
3.384	12.1	20.2	32.3	56.0	-23.7

Peak Data - vs - Average Limit

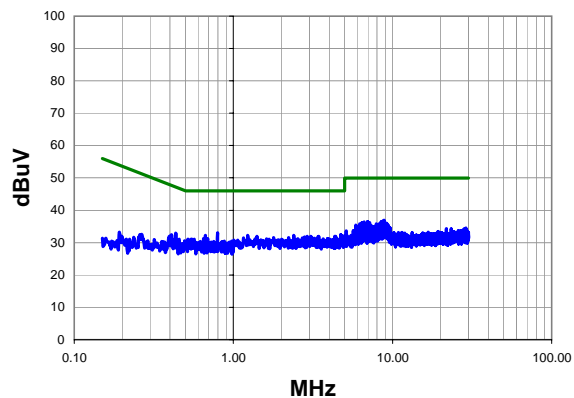
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.860	17.7	20.4	38.1	50.0	-11.9
8.640	17.0	20.4	37.4	50.0	-12.6
7.470	16.8	20.4	37.2	50.0	-12.8
6.890	16.6	20.4	37.0	50.0	-13.0
7.870	16.6	20.4	37.0	50.0	-13.0
8.700	16.6	20.4	37.0	50.0	-13.0
9.220	16.4	20.5	36.9	50.0	-13.1
2.232	12.6	20.1	32.7	46.0	-13.3
4.744	12.5	20.2	32.7	46.0	-13.3
7.090	16.3	20.4	36.7	50.0	-13.3
8.060	16.3	20.4	36.7	50.0	-13.3
8.250	16.3	20.4	36.7	50.0	-13.3
8.890	16.3	20.4	36.7	50.0	-13.3
6.700	16.3	20.4	36.7	50.0	-13.3
6.500	16.2	20.4	36.6	50.0	-13.4
3.912	12.3	20.2	32.5	46.0	-13.5
1.920	12.3	20.1	32.4	46.0	-13.6
6.110	16.1	20.3	36.4	50.0	-13.6
6.310	16.0	20.3	36.3	50.0	-13.7
3.384	12.1	20.2	32.3	46.0	-13.7

Work Order:	MASI0057	Date:	05/03/10		
Project:	None	Temperature:	21.38		
Job Site:	OC06	Humidity:	42.06		
Serial Number:	113683	Barometric Pres.:	1020.5mb	Tested by: Mark Baytan	
EUT:	Radical 7C+				
Configuration:	1				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	120V/60Hz				
Operating Mode:	Transmit Mode				
Deviations:	None				
Comments:	Channel 11, Speed 1mbps				
Test Specifications FCC 15.207:2010			Test Method ANSI C63.10:2009		
Run #	6	Line:	High Line	Ext. Attenuation:	20
Results				Pass	

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit




Peak Data - vs - Quasi Peak Limit

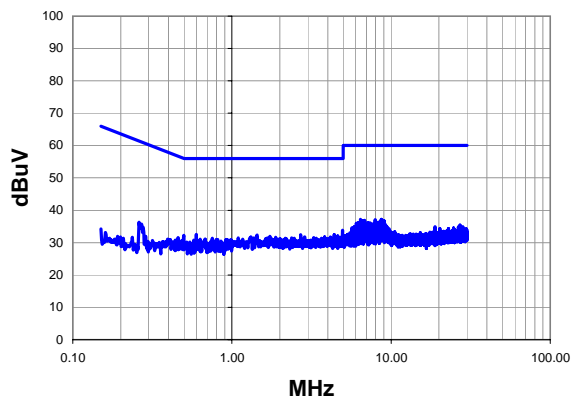
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.794	12.9	20.1	33.0	56.0	-23.0
8.840	16.5	20.4	36.9	60.0	-23.1
8.650	16.2	20.4	36.6	60.0	-23.4
6.980	16.1	20.4	36.5	60.0	-23.5
4.728	12.2	20.2	32.4	56.0	-23.6
8.470	16.0	20.4	36.4	60.0	-23.6
6.640	16.0	20.4	36.4	60.0	-23.6
2.400	12.1	20.1	32.2	56.0	-23.8
0.667	12.1	20.1	32.2	56.0	-23.8
1.232	12.1	20.1	32.2	56.0	-23.8
7.160	15.8	20.4	36.2	60.0	-23.8
6.420	15.8	20.3	36.1	60.0	-23.9
9.030	15.6	20.4	36.0	60.0	-24.0
4.936	11.7	20.3	32.0	56.0	-24.0
9.160	15.5	20.5	36.0	60.0	-24.0
1.408	11.8	20.1	31.9	56.0	-24.1
2.912	11.7	20.2	31.9	56.0	-24.1
3.056	11.7	20.2	31.9	56.0	-24.1
3.440	11.7	20.2	31.9	56.0	-24.1
4.336	11.7	20.2	31.9	56.0	-24.1

Peak Data - vs - Average Limit

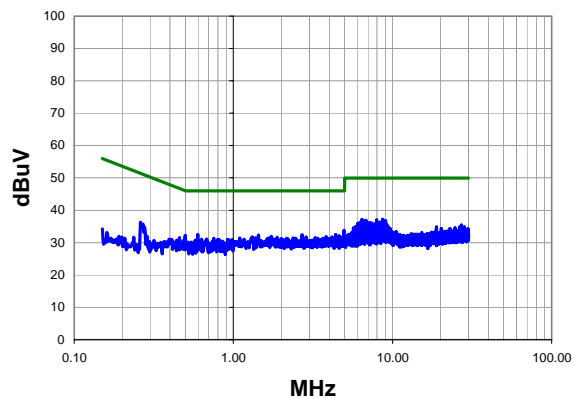
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.794	12.9	20.1	33.0	46.0	-13.0
8.840	16.5	20.4	36.9	50.0	-13.1
8.650	16.2	20.4	36.6	50.0	-13.4
6.980	16.1	20.4	36.5	50.0	-13.5
4.728	12.2	20.2	32.4	46.0	-13.6
8.470	16.0	20.4	36.4	50.0	-13.6
6.640	16.0	20.4	36.4	50.0	-13.6
2.400	12.1	20.1	32.2	46.0	-13.8
0.667	12.1	20.1	32.2	46.0	-13.8
1.232	12.1	20.1	32.2	46.0	-13.8
7.160	15.8	20.4	36.2	50.0	-13.8
6.420	15.8	20.3	36.1	50.0	-13.9
9.030	15.6	20.4	36.0	50.0	-14.0
4.936	11.7	20.3	32.0	46.0	-14.0
9.160	15.5	20.5	36.0	50.0	-14.0
1.408	11.8	20.1	31.9	46.0	-14.1
2.912	11.7	20.2	31.9	46.0	-14.1
3.056	11.7	20.2	31.9	46.0	-14.1
3.440	11.7	20.2	31.9	46.0	-14.1
4.336	11.7	20.2	31.9	46.0	-14.1

Work Order:	MASI0057	Date:	05/03/10				
Project:	None	Temperature:	21.38				
Job Site:	OC06	Humidity:	42.06				
Serial Number:	113683	Barometric Pres.:	1020.5mb	Tested by: Mark Baytan			
EUT:	Radical 7C+						
Configuration:	1						
Customer:	Masimo Corporation						
Attendees:	None						
EUT Power:	120V/60Hz						
Operating Mode:	Transmit Mode						
Deviations:	None						
Comments:	Channel 11, Speed 1mbps						
Test Specifications FCC 15.207:2010			Test Method ANSI C63.10:2009				
Run #	7	Line:	Neutral	Ext. Attenuation:	20	Results	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit




Peak Data - vs - Quasi Peak Limit

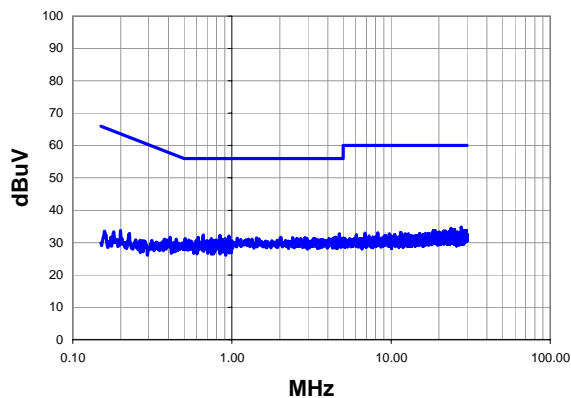
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
4.944	13.5	20.3	33.8	56.0	-22.2
8.680	16.8	20.4	37.2	60.0	-22.8
6.430	16.8	20.3	37.1	60.0	-22.9
7.930	16.7	20.4	37.1	60.0	-22.9
6.810	16.5	20.4	36.9	60.0	-23.1
8.860	16.4	20.4	36.8	60.0	-23.2
9.050	16.3	20.4	36.7	60.0	-23.3
6.630	16.3	20.4	36.7	60.0	-23.3
0.597	12.4	20.1	32.5	56.0	-23.5
2.704	12.2	20.2	32.4	56.0	-23.6
4.392	12.2	20.2	32.4	56.0	-23.6
8.490	16.0	20.4	36.4	60.0	-23.6
1.440	12.2	20.1	32.3	56.0	-23.7
8.300	15.9	20.4	36.3	60.0	-23.7
6.250	15.9	20.3	36.2	60.0	-23.8
0.499	12.1	20.1	32.2	56.0	-23.8
7.180	15.7	20.4	36.1	60.0	-23.9
7.370	15.7	20.4	36.1	60.0	-23.9
4.624	11.8	20.2	32.0	56.0	-24.0
6.060	15.7	20.3	36.0	60.0	-24.0

Peak Data - vs - Average Limit

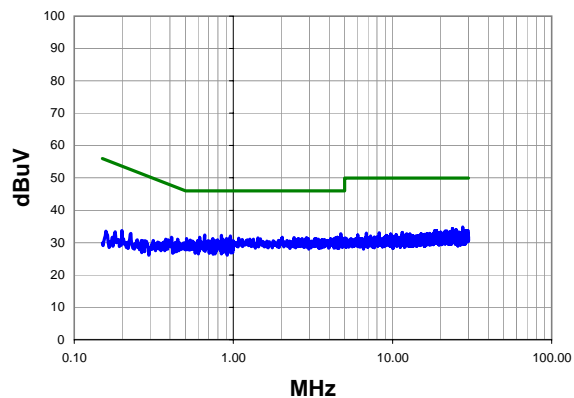
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
4.944	13.5	20.3	33.8	46.0	-12.2
8.680	16.8	20.4	37.2	50.0	-12.8
6.430	16.8	20.3	37.1	50.0	-12.9
7.930	16.7	20.4	37.1	50.0	-12.9
6.810	16.5	20.4	36.9	50.0	-13.1
8.860	16.4	20.4	36.8	50.0	-13.2
9.050	16.3	20.4	36.7	50.0	-13.3
6.630	16.3	20.4	36.7	50.0	-13.3
0.597	12.4	20.1	32.5	46.0	-13.5
2.704	12.2	20.2	32.4	46.0	-13.6
4.392	12.2	20.2	32.4	46.0	-13.6
8.490	16.0	20.4	36.4	50.0	-13.6
1.440	12.2	20.1	32.3	46.0	-13.7
8.300	15.9	20.4	36.3	50.0	-13.7
6.250	15.9	20.3	36.2	50.0	-13.8
0.499	12.1	20.1	32.2	46.0	-13.8
7.180	15.7	20.4	36.1	50.0	-13.9
7.370	15.7	20.4	36.1	50.0	-13.9
4.624	11.8	20.2	32.0	46.0	-14.0
6.060	15.7	20.3	36.0	50.0	-14.0

Work Order:	MASI0057	Date:	05/03/10				
Project:	None	Temperature:	21.38				
Job Site:	OC06	Humidity:	42.06				
Serial Number:	113683	Barometric Pres.:	1020.5mb	Tested by: Mark Baytan			
EUT:	Radical 7C+						
Configuration:	1						
Customer:	Masimo Corporation						
Attendees:	None						
EUT Power:	120V/60Hz						
Operating Mode:	Transmit Mode						
Deviations:	None						
Comments:	Channel 149, Speed 6mbps						
Test Specifications FCC 15.207:2010			Test Method ANSI C63.10:2009				
Run #	8	Line:	High Line	Ext. Attenuation:	20	Results	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit




Peak Data - vs - Quasi Peak Limit

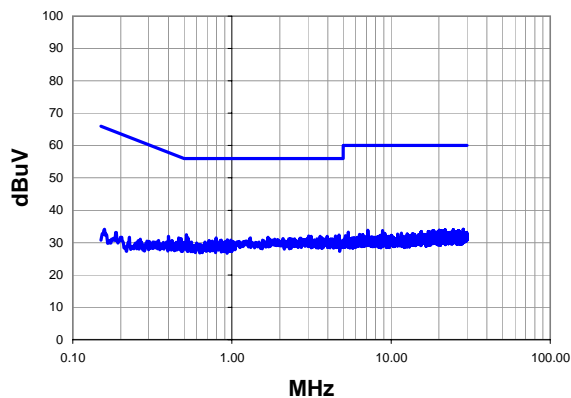
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
4.736	12.5	20.2	32.7	56.0	-23.3
0.660	12.2	20.1	32.3	56.0	-23.7
0.842	12.1	20.1	32.2	56.0	-23.8
0.959	11.9	20.1	32.0	56.0	-24.0
0.614	11.6	20.1	31.7	56.0	-24.3
2.032	11.6	20.1	31.7	56.0	-24.3
4.496	11.5	20.2	31.7	56.0	-24.3
2.880	11.4	20.2	31.6	56.0	-24.4
4.400	11.4	20.2	31.6	56.0	-24.4
2.408	11.4	20.1	31.5	56.0	-24.5
1.424	11.4	20.1	31.5	56.0	-24.5
0.951	11.3	20.1	31.4	56.0	-24.6
1.080	11.3	20.1	31.4	56.0	-24.6
0.509	11.2	20.1	31.3	56.0	-24.7
0.743	11.2	20.1	31.3	56.0	-24.7
0.905	11.2	20.1	31.3	56.0	-24.7
3.248	11.1	20.2	31.3	56.0	-24.7
0.857	11.0	20.1	31.1	56.0	-24.9
0.796	10.8	20.1	30.9	56.0	-25.1
0.534	10.7	20.1	30.8	56.0	-25.2

Peak Data - vs - Average Limit

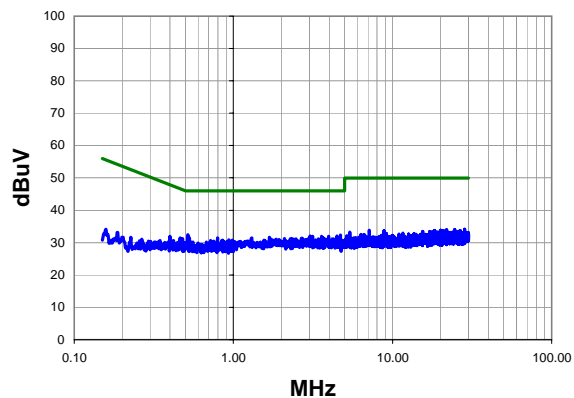
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
4.736	12.5	20.2	32.7	46.0	-13.3
0.660	12.2	20.1	32.3	46.0	-13.7
0.842	12.1	20.1	32.2	46.0	-13.8
0.959	11.9	20.1	32.0	46.0	-14.0
0.614	11.6	20.1	31.7	46.0	-14.3
2.032	11.6	20.1	31.7	46.0	-14.3
4.496	11.5	20.2	31.7	46.0	-14.3
2.880	11.4	20.2	31.6	46.0	-14.4
4.400	11.4	20.2	31.6	46.0	-14.4
2.408	11.4	20.1	31.5	46.0	-14.5
1.424	11.4	20.1	31.5	46.0	-14.5
0.951	11.3	20.1	31.4	46.0	-14.6
1.080	11.3	20.1	31.4	46.0	-14.6
0.509	11.2	20.1	31.3	46.0	-14.7
0.743	11.2	20.1	31.3	46.0	-14.7
0.905	11.2	20.1	31.3	46.0	-14.7
3.248	11.1	20.2	31.3	46.0	-14.7
0.857	11.0	20.1	31.1	46.0	-14.9
0.796	10.8	20.1	30.9	46.0	-15.1
0.534	10.7	20.1	30.8	46.0	-15.2

Work Order:	MASI0057	Date:	05/03/10		
Project:	None	Temperature:	21.38		
Job Site:	OC06	Humidity:	42.06		
Serial Number:	113683	Barometric Pres.:	1020.5mb	Tested by: Mark Baytan	
EUT:	Radical 7C+				
Configuration:	1				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	120V/60Hz				
Operating Mode:	Transmit Mode				
Deviations:	None				
Comments:	Channel 149, Speed 6mbps				
Test Specifications FCC 15.207:2010			Test Method ANSI C63.10:2009		
Run #	9	Line:	Neutral	Ext. Attenuation: 20	Results Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit




Peak Data - vs - Quasi Peak Limit

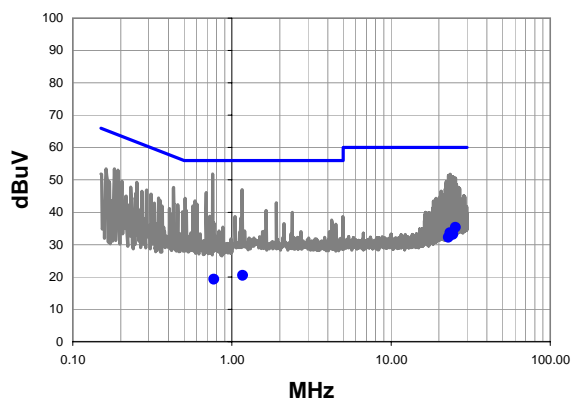
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.517	12.3	20.1	32.4	56.0	-23.6
4.704	12.1	20.2	32.3	56.0	-23.7
3.040	11.8	20.2	32.0	56.0	-24.0
4.472	11.8	20.2	32.0	56.0	-24.0
3.576	11.7	20.2	31.9	56.0	-24.1
3.960	11.7	20.2	31.9	56.0	-24.1
1.688	11.6	20.1	31.7	56.0	-24.3
3.648	11.4	20.2	31.6	56.0	-24.4
0.529	11.4	20.1	31.5	56.0	-24.5
0.794	11.4	20.1	31.5	56.0	-24.5
1.304	11.4	20.1	31.5	56.0	-24.5
2.328	11.2	20.1	31.3	56.0	-24.7
2.280	11.1	20.1	31.2	56.0	-24.8
0.478	11.2	20.1	31.3	56.4	-25.1
0.937	10.8	20.1	30.9	56.0	-25.1
0.463	11.4	20.1	31.5	56.6	-25.1
0.983	10.7	20.1	30.8	56.0	-25.2
0.718	10.6	20.1	30.7	56.0	-25.3
0.752	10.4	20.1	30.5	56.0	-25.5
0.864	10.3	20.1	30.4	56.0	-25.6

Peak Data - vs - Average Limit

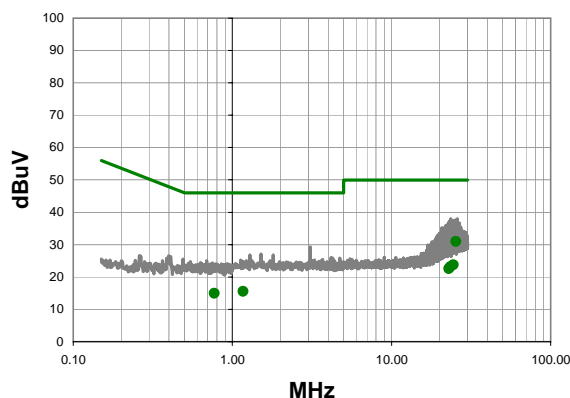
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.517	12.3	20.1	32.4	46.0	-13.6
4.704	12.1	20.2	32.3	46.0	-13.7
3.040	11.8	20.2	32.0	46.0	-14.0
4.472	11.8	20.2	32.0	46.0	-14.0
3.576	11.7	20.2	31.9	46.0	-14.1
3.960	11.7	20.2	31.9	46.0	-14.1
1.688	11.6	20.1	31.7	46.0	-14.3
3.648	11.4	20.2	31.6	46.0	-14.4
0.529	11.4	20.1	31.5	46.0	-14.5
0.794	11.4	20.1	31.5	46.0	-14.5
1.304	11.4	20.1	31.5	46.0	-14.5
2.328	11.2	20.1	31.3	46.0	-14.7
2.280	11.1	20.1	31.2	46.0	-14.8
0.478	11.2	20.1	31.3	46.4	-15.1
0.937	10.8	20.1	30.9	46.0	-15.1
0.463	11.4	20.1	31.5	46.6	-15.1
0.983	10.7	20.1	30.8	46.0	-15.2
0.718	10.6	20.1	30.7	46.0	-15.3
0.752	10.4	20.1	30.5	46.0	-15.5
0.864	10.3	20.1	30.4	46.0	-15.6

Work Order:	MASI0057	Date:	05/03/10		
Project:	None	Temperature:	21.38		
Job Site:	OC06	Humidity:	42.06		
Serial Number:	113683	Barometric Pres.:	1020.5mb		
EUT:	Radical 7C+				
Configuration:	1				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	120V/60Hz				
Operating Mode:	Transmit Mode				
Deviations:	None				
Comments:	Channel 157, Speed 6mbps				
Test Specifications FCC 15.207:2010			Test Method ANSI C63.10:2009		
Run #	10	Line:	High Line	Ext. Attenuation:	20
				Results	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit




Quasi Peak Data - vs - Quasi Peak Limit

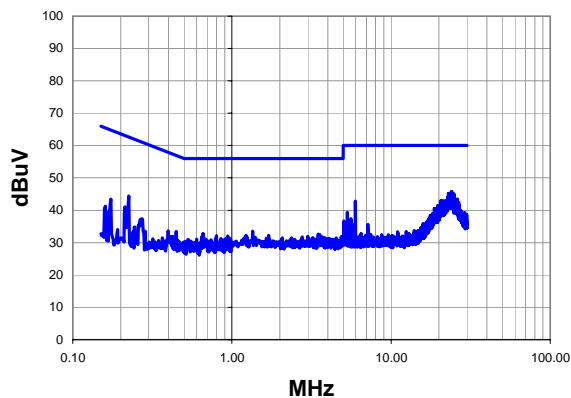
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
25.422	14.0	21.3	35.3	60.0	-24.7
23.454	12.3	21.3	33.6	60.0	-26.4
24.532	11.8	21.4	33.2	60.0	-26.8
22.928	10.9	21.3	32.2	60.0	-27.8
1.168	0.4	20.1	20.5	56.0	-35.5
0.769	-0.8	20.1	19.3	56.0	-36.7

Average Data - vs - Average Limit

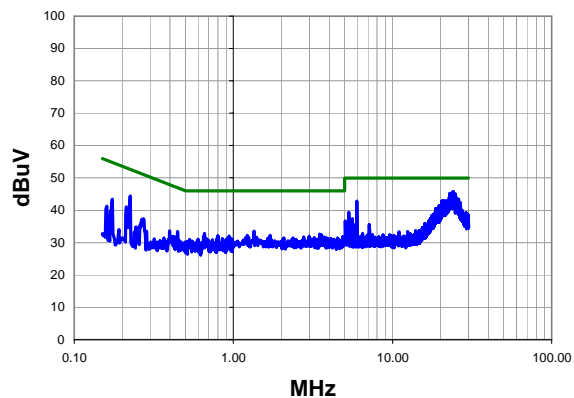
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
25.422	9.6	21.3	30.9	50.0	-19.1
24.532	2.4	21.4	23.8	50.0	-26.2
23.454	1.8	21.3	23.1	50.0	-26.9
22.928	1.3	21.3	22.6	50.0	-27.4
1.168	-4.6	20.1	15.5	46.0	-30.5
0.769	-5.2	20.1	14.9	46.0	-31.1

Work Order:	MASI0057	Date:	05/03/10		
Project:	None	Temperature:	21.38		
Job Site:	OC06	Humidity:	42.06		
Serial Number:	113683	Barometric Pres.:	1020.5mb	Tested by: Mark Baytan	
EUT:	Radical 7C+				
Configuration:	1				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	120V/60Hz				
Operating Mode:	Transmit Mode				
Deviations:	None				
Comments:	Channel 157, Speed 6mbps				
Test Specifications FCC 15.207:2010			Test Method ANSI C63.10:2009		
Run #	11	Line:	Neutral	Ext. Attenuation: 20	Results Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit




Peak Data - vs - Quasi Peak Limit

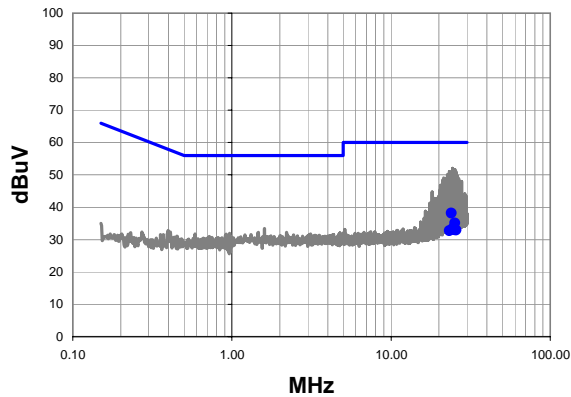
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
24.020	24.4	21.4	45.8	60.0	-14.2
23.600	24.0	21.3	45.3	60.0	-14.7
22.900	23.9	21.3	45.2	60.0	-14.8
23.320	23.9	21.3	45.2	60.0	-14.8
24.840	23.7	21.3	45.0	60.0	-15.0
23.720	23.5	21.3	44.8	60.0	-15.2
24.790	23.2	21.3	44.5	60.0	-15.5
24.570	23.1	21.4	44.5	60.0	-15.5
24.980	23.1	21.3	44.4	60.0	-15.6
22.750	22.7	21.3	44.0	60.0	-16.0
23.930	22.5	21.4	43.9	60.0	-16.1
24.280	22.5	21.4	43.9	60.0	-16.1
26.030	22.1	21.3	43.4	60.0	-16.6
25.410	21.8	21.3	43.1	60.0	-16.9
21.060	21.7	21.2	42.9	60.0	-17.1
22.170	21.6	21.3	42.9	60.0	-17.1
5.970	22.5	20.3	42.8	60.0	-17.2
20.400	21.6	21.2	42.8	60.0	-17.2
20.740	21.6	21.2	42.8	60.0	-17.2
21.590	21.5	21.3	42.8	60.0	-17.2

Peak Data - vs - Average Limit

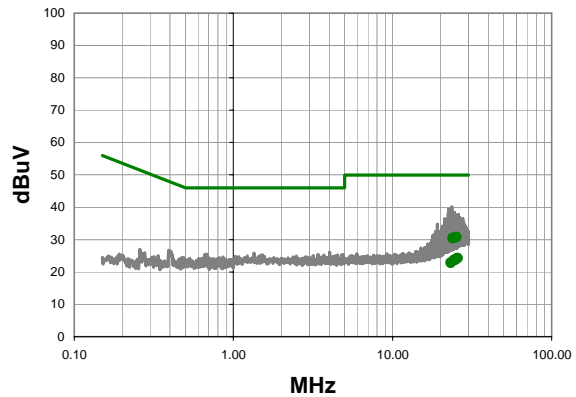
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
24.020	24.4	21.4	45.8	50.0	-4.2
23.600	24.0	21.3	45.3	50.0	-4.7
22.900	23.9	21.3	45.2	50.0	-4.8
23.320	23.9	21.3	45.2	50.0	-4.8
24.840	23.7	21.3	45.0	50.0	-5.0
23.720	23.5	21.3	44.8	50.0	-5.2
24.790	23.2	21.3	44.5	50.0	-5.5
24.570	23.1	21.4	44.5	50.0	-5.5
24.980	23.1	21.3	44.4	50.0	-5.6
22.750	22.7	21.3	44.0	50.0	-6.0
23.930	22.5	21.4	43.9	50.0	-6.1
24.280	22.5	21.4	43.9	50.0	-6.1
26.030	22.1	21.3	43.4	50.0	-6.6
25.410	21.8	21.3	43.1	50.0	-6.9
21.060	21.7	21.2	42.9	50.0	-7.1
22.170	21.6	21.3	42.9	50.0	-7.1
5.970	22.5	20.3	42.8	50.0	-7.2
20.400	21.6	21.2	42.8	50.0	-7.2
20.740	21.6	21.2	42.8	50.0	-7.2
21.590	21.5	21.3	42.8	50.0	-7.2

Work Order:	MASI0057	Date:	05/03/10		
Project:	None	Temperature:	21.38		
Job Site:	OC06	Humidity:	42.06		
Serial Number:	113683	Barometric Pres.:	1020.5mb		
EUT:	Radical 7C+				
Configuration:	1				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	120V/60Hz				
Operating Mode:	Transmit Mode				
Deviations:	None				
Comments:	Channel 165, Speed 6mbps				
Test Specifications FCC 15.207:2010			Test Method ANSI C63.10:2009		
Run #	12	Line:	High Line	Ext. Attenuation:	20
Results				Pass	

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit




Quasi Peak Data - vs - Quasi Peak Limit

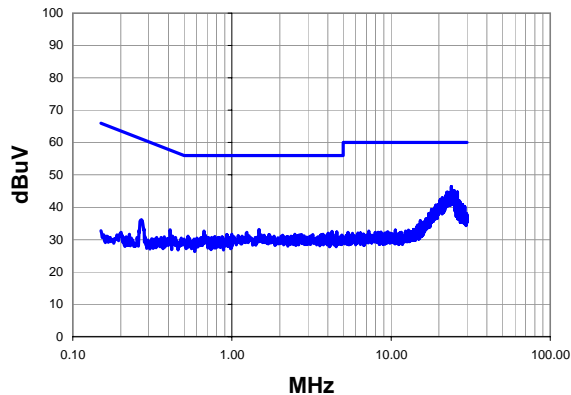
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
23.928	16.8	21.4	38.2	60.0	-21.8
25.222	13.8	21.3	35.1	60.0	-24.9
24.382	12.0	21.4	33.4	60.0	-26.6
24.950	11.7	21.3	33.0	60.0	-27.0
25.694	11.6	21.3	32.9	60.0	-27.1
23.296	11.4	21.3	32.7	60.0	-27.3

Average Data - vs - Average Limit

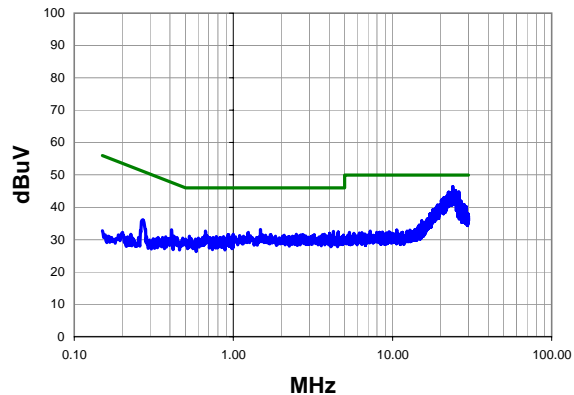
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
25.222	9.4	21.3	30.7	50.0	-19.3
23.928	9.1	21.4	30.5	50.0	-19.5
25.694	2.9	21.3	24.2	50.0	-25.8
24.950	2.5	21.3	23.8	50.0	-26.2
24.382	2.3	21.4	23.7	50.0	-26.3
23.296	1.5	21.3	22.8	50.0	-27.2

Work Order:	MASI0057	Date:	05/03/10		
Project:	None	Temperature:	21.38		
Job Site:	OC06	Humidity:	42.06		
Serial Number:	113683	Barometric Pres.:	1020.5mb	Tested by: Mark Baytan	
EUT:	Radical 7C+				
Configuration:	1				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	120V/60Hz				
Operating Mode:	Transmit Mode				
Deviations:	None				
Comments:	Channel 165, Speed 6mbps				
Test Specifications FCC 15.207:2010			Test Method ANSI C63.10:2009		
Run #	13	Line:	Neutral	Ext. Attenuation: 20	Results Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
23.930	25.0	21.4	46.4	60.0	-13.6
24.480	23.8	21.4	45.2	60.0	-14.8
24.900	23.8	21.3	45.1	60.0	-14.9
26.150	23.4	21.3	44.7	60.0	-15.3
22.670	23.4	21.3	44.7	60.0	-15.3
22.410	23.3	21.3	44.6	60.0	-15.4
25.450	23.1	21.3	44.4	60.0	-15.6
23.080	23.1	21.3	44.4	60.0	-15.6
23.650	23.0	21.3	44.3	60.0	-15.7
25.170	23.0	21.3	44.3	60.0	-15.7
23.360	23.0	21.3	44.3	60.0	-15.7
25.030	22.9	21.3	44.2	60.0	-15.8
24.760	22.8	21.3	44.1	60.0	-15.9
25.970	22.5	21.3	43.8	60.0	-16.2
25.590	22.3	21.3	43.6	60.0	-16.4
22.470	22.3	21.3	43.6	60.0	-16.4
21.970	22.2	21.3	43.5	60.0	-16.5
25.480	21.9	21.3	43.2	60.0	-16.8
25.840	21.8	21.3	43.1	60.0	-16.9
21.000	21.7	21.2	42.9	60.0	-17.1

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
23.930	25.0	21.4	46.4	50.0	-3.6
24.480	23.8	21.4	45.2	50.0	-4.8
24.900	23.8	21.3	45.1	50.0	-4.9
26.150	23.4	21.3	44.7	50.0	-5.3
22.670	23.4	21.3	44.7	50.0	-5.3
22.410	23.3	21.3	44.6	50.0	-5.4
25.450	23.1	21.3	44.4	50.0	-5.6
23.080	23.1	21.3	44.4	50.0	-5.6
23.650	23.0	21.3	44.3	50.0	-5.7
25.170	23.0	21.3	44.3	50.0	-5.7
23.360	23.0	21.3	44.3	50.0	-5.7
25.030	22.9	21.3	44.2	50.0	-5.8
24.760	22.8	21.3	44.1	50.0	-5.9
25.970	22.5	21.3	43.8	50.0	-6.2
25.590	22.3	21.3	43.6	50.0	-6.4
22.470	22.3	21.3	43.6	50.0	-6.4
21.970	22.2	21.3	43.5	50.0	-6.5
25.480	21.9	21.3	43.2	50.0	-6.8
25.840	21.8	21.3	43.1	50.0	-6.9
21.000	21.7	21.2	42.9	50.0	-7.1

