



166 South Carter, Genoa City, WI 53128

Company: Dentsply Professional  
Model Tested: 761255  
Report Number: 16681  
Project Number: 4349

## Code of Federal Regulations 47 Part 15 – Radio Frequency Devices

### Subpart C – Intentional Radiators

#### Section 15.249

Operation within the bands 902 - 928 MHz,  
2400 – 2483.5 MHz, 5725 – 5875 MHz,  
and 24.0 – 24.5 GHz

### THE FOLLOWING **MEETS** THE ABOVE TEST SPECIFICATION

Formal Name: MIDWEST ® RDH Freedom <sup>TM</sup> Cordless Prophy System  
Handpiece Inner Module

Kind of Equipment: Standalone battery operated handheld transceiver

Frequency Range: 2405 - 2480 MHz

Test Configuration: Battery operated handheld transceiver tested for intentional radiated emissions in three orthogonal planes.

Model Number(s): 761255 (Purple), 761160 (Teal), 761161 (Lavender)

Model(s) Tested: 761255

Serial Number(s): 7334-POD-1-OS-AA0054

Date of Tests: December 14 - 21, 2010

Test Conducted For: Dentsply Professional Division  
1301 Smile Way  
York, PA 17404, USA

**NOTICE:** “This test report relates only to the items tested and must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government”. Please see the "Description of Test Sample" page listed inside of this report.

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## SIGNATURE PAGE

Report By:

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Reviewed By:

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United States Department of Commerce  
National Institute of Standards and Technology



## Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 100276-0

**D.L.S. Electronic Systems, Inc.**  
Wheeling, IL

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:

### ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).

2010-10-01 through 2011-09-30

Effective dates



*Jolly A. Buces*  
For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)



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## 1.0 Summary of Test Report

It was determined that the Dentsply Professional Division MIDWEST® RDH Freedom™ Cordless Prophy System Hand piece Inner Module, Model 761255, complies with the requirements of CFR 47 Part 15 Subpart C Section 15.249.

### Subpart C Section 15.249 Applicable Technical Requirements Tested:

Section	Description	Procedure	Note	Compliant?
15.215(c)	20 dB Emission Bandwidth	ANSI C63.4-2009 & ANSI C63.10-2009	1,2	Yes
15.205	Band Edge Measurement Near a Restricted Band	ANSI C63.4-2009 & ANSI C63.10-2009	1,2	Yes
15.35(c)	Duty Cycle Correction for Pulsed operation	ANSI C63.4-2009 & ANSI C63.10-2009	1,2	Yes
15.249 & 15.205 / 15.209	Field Strength of Emissions Fundamental and Spurious	ANSI C63.4-2009 & ANSI C63.10-2009	1,2	Yes

Note 1: Tested in 3 orthogonal planes.

Note 2: Radiated emission measurement.

## 2.0 Introduction

On December 14 - 21, 2010 the MIDWEST® RDH Freedom™ Cordless Prophy System Handpiece Inner Module, Model 761255, as provided from Dentsply Professional Division was tested to the requirements of CFR 47 Part 15 Subpart C Section 15.249. To meet these requirements, the procedures contained within this report were performed by personnel of D.L.S Electronic Systems, Inc.

## 3.0 Test Facilities

D.L.S. Electronic Systems, Inc. is a full service EMC/Safety Testing Laboratory accredited to ISO 17025. NVLAP Certificate and Scope can be viewed at <http://www.dlsemc.com/certificate>. Our facilities are registered with the FCC, Industry Canada, and VCCI.

### Wisconsin Test Facility:

D.L.S. Electronic Systems, Inc.  
166 S. Carter Street  
Genoa City, Wisconsin 53128

### Wheeling Test Facility:

D.L.S. Electronic Systems, Inc.  
1250 Peterson Drive  
Wheeling, IL 60090



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#### **4.0 Description of Test Sample**

##### **Description:**

The RDH Freedom is a high-performance cordless prophylaxis hand piece with a wireless foot pedal for use with RHD Freedom disposable prophylaxis angles to clean and polish teeth. The hand piece circuit will wake up when rotated more than 45 degrees in any axis. Once awake, it will receive RF signals from the foot pedal. When the user presses the foot pedal, the hand piece will rotate at a speed that is dependent of the amount of travel while pressing the foot pedal. When the foot pedal is released, the hand piece must stop.

The handpiece will display the charge status of its rechargeable battery with one LED, which can change from green to yellow to orange. It will also display the battery status of the foot pedal with another LED. A third LED displays the detection of any anomaly in the system. Both units have a rechargeable Lithium-Ion battery, which charge up with the same power supply. The hand piece will sit in a cradle that makes the connection from the power supply to the hand piece contacts. While charging, the hand piece will not operate the motor. The foot pedal can plug directly into the power supply.

##### **Type of Equipment / Frequency Range:**

Handheld / 2405 - 2480 MHz

##### **Physical Dimensions of Equipment Under Test:**

Length: 130 mm x Width: 34 mm x Height: 34 mm

##### **Power Source:**

3.7 VDC Rechargeable Lithium-Ion battery (not user serviceable)

##### **Internal Frequencies:**

16 MHz, 1600 kHz (switching power supply)

##### **Transmit / Receive Frequencies Used For Test Purpose:**

2405, 2445, 2480 MHz

##### **Type of Modulation(s) / Antenna Type:**

O-QPSK / Integral trace antenna



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#### 4.0 Description of Test Sample (continued)

##### Description of Circuit Board(s) / Part Number:

Handpiece PCB Assembly	763875 Rev 4.2
Battery protection PCB assembly	761267 Rev 4.0

#### 5.0 Test Equipment

A list of the equipment used can be found in the table below. All primary equipment was calibrated against known reference standards with a verified traceable path to NIST.

##### D.L.S. Wisconsin – OATS 2 / G1 / Screen room

Description	Manufacturer	Model Number	Serial Number	Frequency Range	Cal Dates	Cal Due Dates
<b>G1 Emissions 30-1000 MHz</b>						
Receiver	Rohde & Schwarz	ESI 40	837808/005	20 Hz – 40 GHz	7/10	7/11
Preamplifier	Rohde & Schwarz	TS-PR10	032001/003	9 kHz – 1 GHz	1/10	1/11
Antenna	EMCO	3104C	9810-4849	20 MHz – 200 MHz	2/10	2/12
Antenna	EMCO	3146	1604	200 MHz – 1 GHz	8/10	8/12
<b>Screen room - AC Line Conducted</b>						
LISN	Solar	9252-50-R-24-BNC	961019	9 kHz – 30 MHz	7/10	7/11
Filter- High-Pass	SOLAR	7930-120	090702	120 kHz – 30 MHz	1/10	1/11
Limiter	Electro-Metrics	EM-7600	706	9 kHz – 30 MHz	1/10	1/11
<b>Site 2 Emissions – 1-26 GHz</b>						
Receiver	Rohde & Schwarz	ESI 26	837491/010	20 Hz – 26 GHz	5/10	5/11
Filter- High-Pass	Q-Microwave	100462	2	4.2GHz-18GHz	5/10	5/11
Preamp	Ciao	CA118-4010	101	1GHz-18GHz	1/10	1/11
Horn Antenna	EMCO	3115	9903-5731	1-18GHz	6/09	6/11
Preamp	Miteq	AMF-8B-180265-40-10P-H/S	438727	18GHz-26GHz	8/10	8/11
Horn Antenna	AH Systems	SAS-574	222	18 – 40GHz	5/10	4/12



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## 6.0 Test Arrangements

### Radiated Emissions Measurement Arrangement:

All radiated emission measurements were performed at D.L.S. Electronic Systems, Inc. and set up according to ANSI C63.4-2009 and ANSI C63.10-2009, unless otherwise noted. Description of procedures and measurements can be found in Appendix B – Measurement Data. See Appendix A for additional photos of the test set up.

Unless otherwise noted, the bandwidth of the measuring receiver / analyzer used during testing is shown below.

Frequency Range	Bandwidth (-6 dB)
10 to 150 kHz	200 Hz
150 kHz to 30 MHz	9 kHz
30 MHz to 1 GHz	120 kHz
Above 1 GHz	1 MHz

## 7.0 Test Conditions

### Test Conditions recorded during test:

#### Temperature and Humidity:

65°F at 25% RH

#### Battery Voltage:

3.7 VDC

## 8.0 Modifications Made To EUT For Compliance

None noted at time of test.





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## **9.0 Additional Descriptions**

Hyper-terminal was used to send commands to the radio to put the radio in special test modes. The EUT was tested in continuous transmit mode and continuous receive mode. The EUT was tested while set to channels 0, 8, and 15 (low, mid and high).

The unit does not transmit while docked in its charging base therefore AC Line Conducted Emissions are not applicable to this device under FCC Part 15.207. AC Line Conducted Emissions testing was performed on the EUT while charging and reported as FCC Part 15.107 emissions (DLS Report 16682).

The Handpiece has three model numbers, 761255 (Purple), 761160 (Teal), 761161 (Lavender) which only differ in external color.

## **10.0 Results**

Measurements were performed in accordance with ANSI C63.4-2009 and ANSI C63.10-2009. Graphical and tabular data can be found in Appendix B at the end of this report.

## **11.0 Conclusion**

The MIDWEST® RDH Freedom™ Cordless Prophylaxis System Handpiece Inner Module, Model 761255, as provided from Dentsply Professional Division tested on December 14 - 21, 2010 **meets** the requirements of CFR 47 Part 15 Subpart C Section 15.249.



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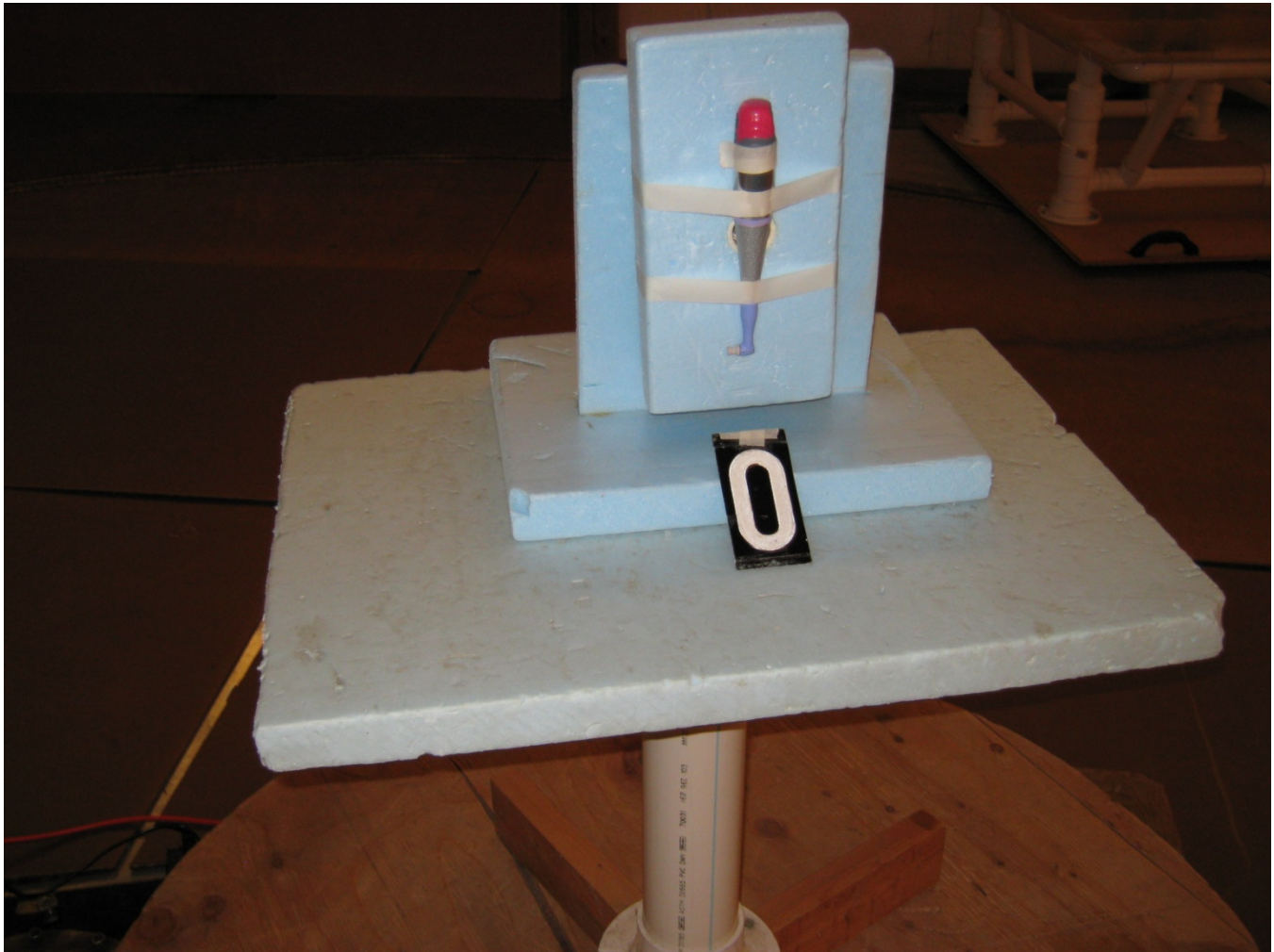
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## Appendix A – Test Photos

### Photo Information and Test Setup:

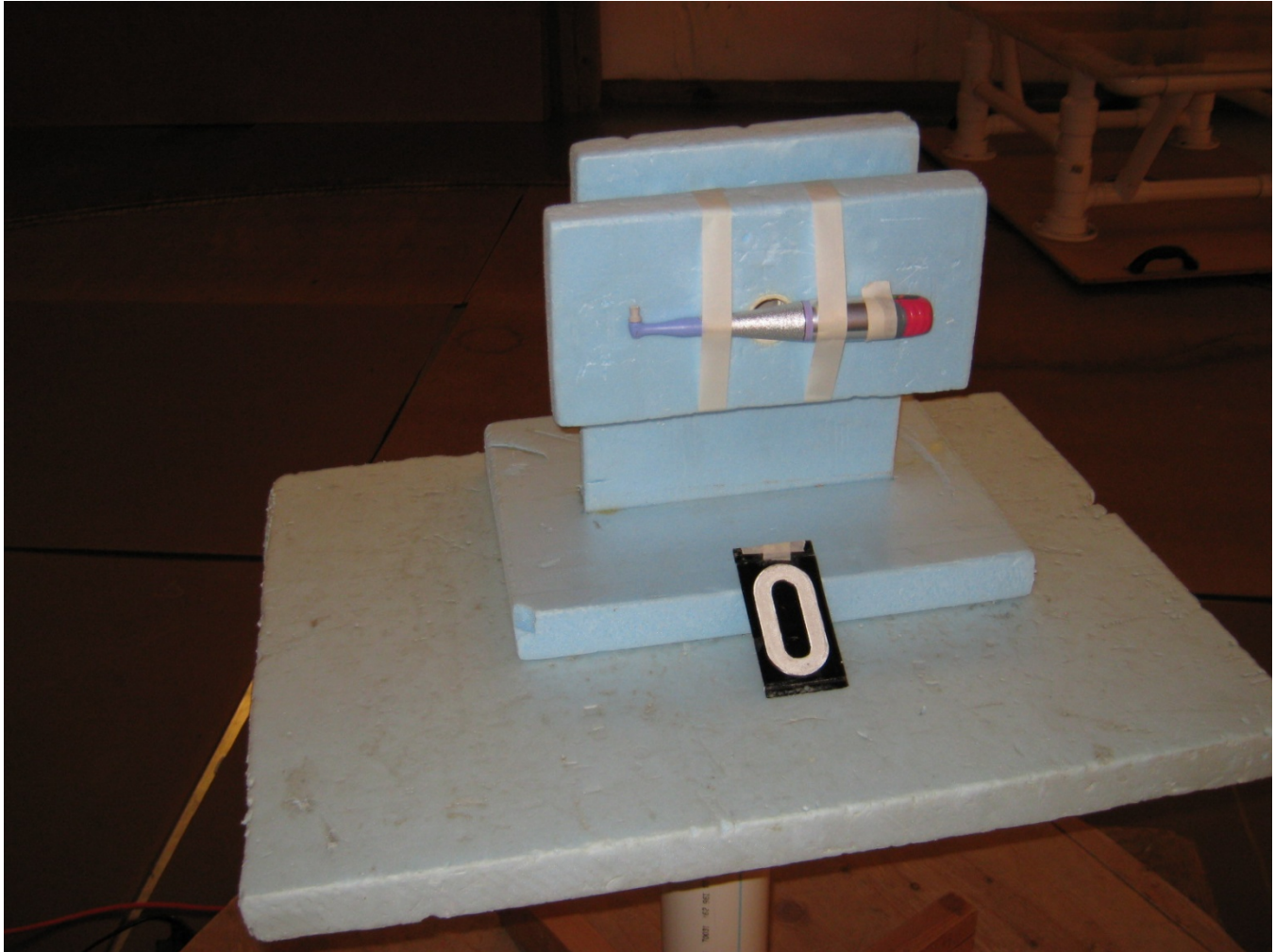
Item 0: RDH Freedom Cordless Prophy Handpiece Inner Module, Model 761255

#### Radiated Emissions – ‘Y’ Position



## Appendix A

### Radiated Emissions – ‘X’ Position





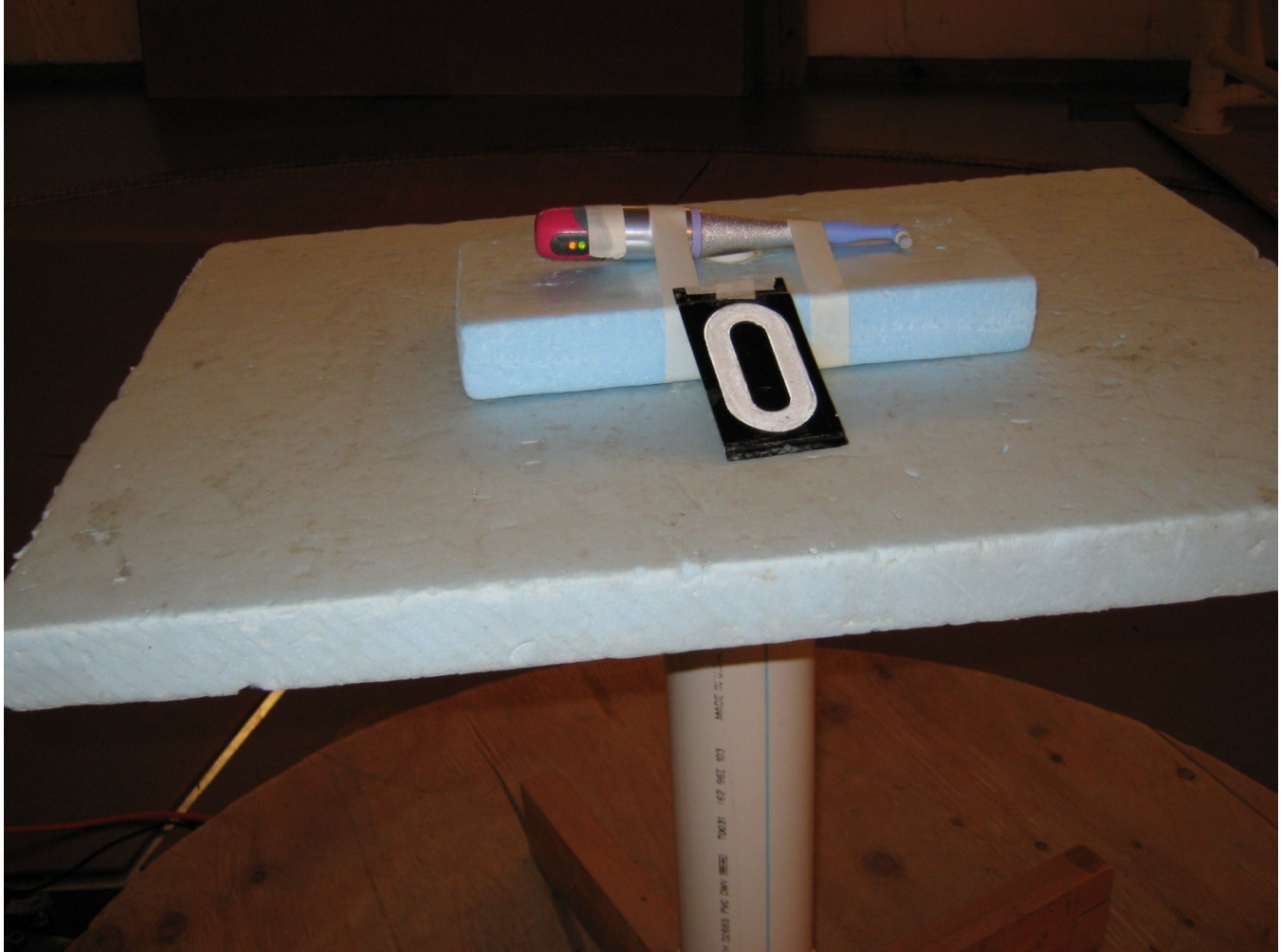


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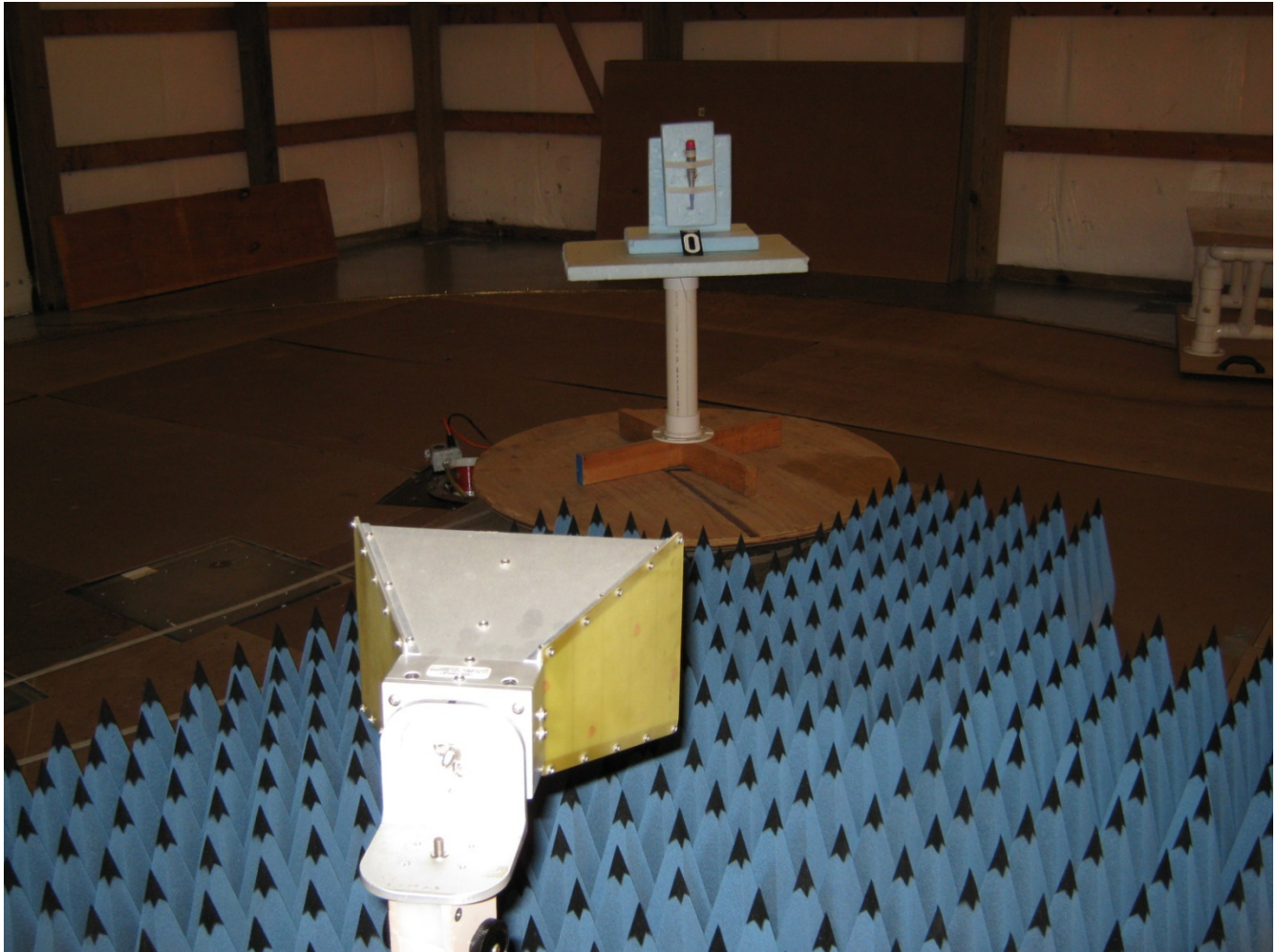
## Appendix A

### Radiated Emissions – ‘Z’ Position



## Appendix A

### Radiated Emissions – Above 1000 MHz





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## **Appendix B – Measurement Data**

### **1.0 Emission Bandwidth – 20 dB**

#### **Rule Part:**

Section 15.215 (c)

#### **Test Procedure:**

ANSI C63.4-2009 and ANSI C63.10-2009

#### **Limit:**

Informative

#### **Results:**

Compliant  
20 dB bandwidth: **2.7 MHz**

#### **Sample Equation(s):**

None

#### **Notes:**

This was a radiated emissions measurement. The maximum field strength of the emission was determined and the bandwidth was measured from the points at 20 dB down from the modulated carrier.



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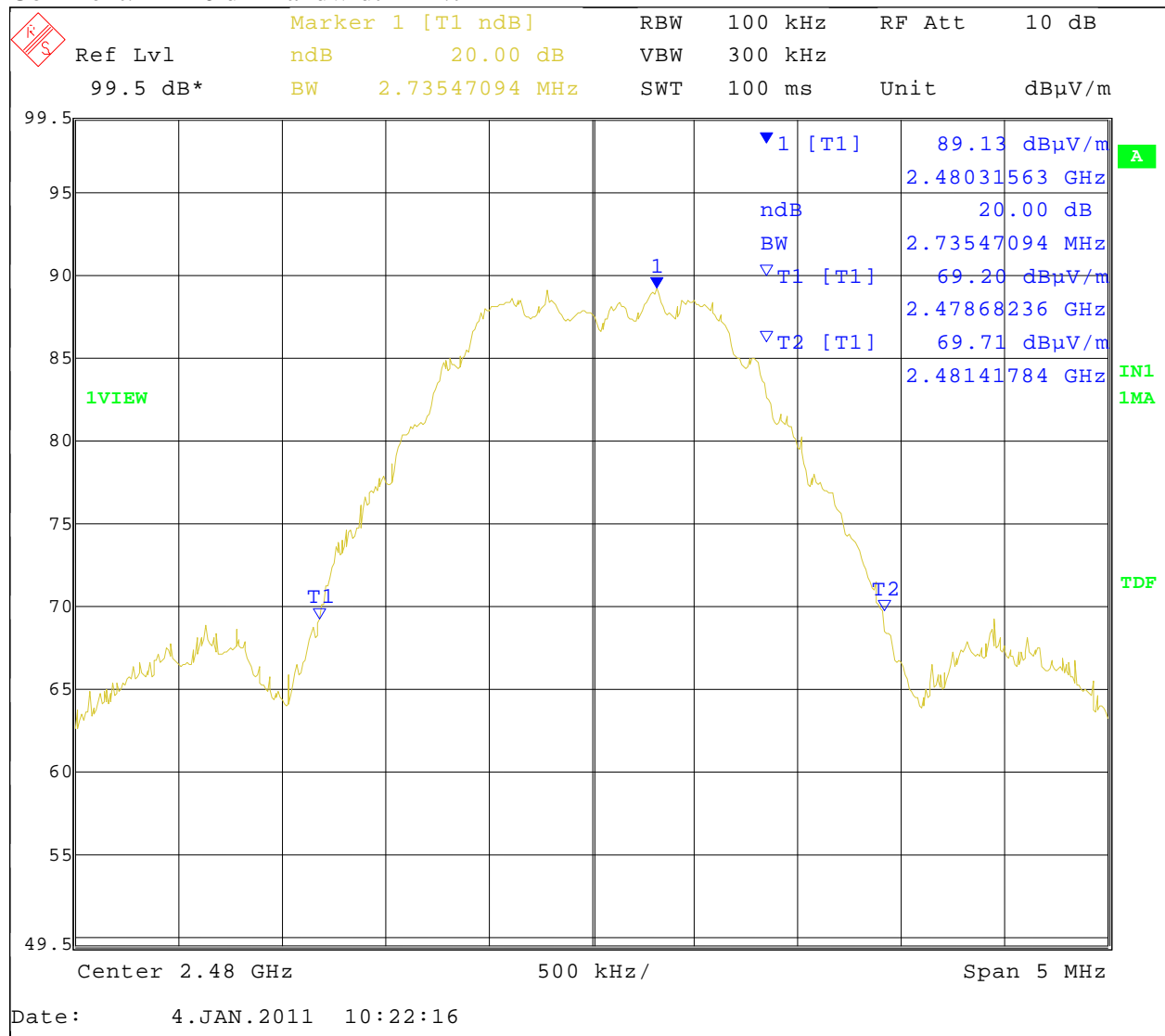
Company:  
Model Tested:  
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## Appendix B

Test Date: 1-4-2010  
Company: Dentsply Professional  
EUT: Prophy Solutions handpiece Model: 761255  
Test: 20 dB Bandwidth  
Operator: Cooper L.

Comment: 20 dB Bandwidth = 2.74 MHz





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## **Appendix B**

### **2.0 Band Edge Measurement**

#### **Rule Part:**

15.205

#### **Test Procedure:**

ANSI C63.4-2009 and ANSI C63.10-2009

#### **Limit:**

15.205 / 15.209

#### **Results:**

Compliant

#### **Sample Equation(s):**

None

#### **Notes:**

Test distance 1 meter.





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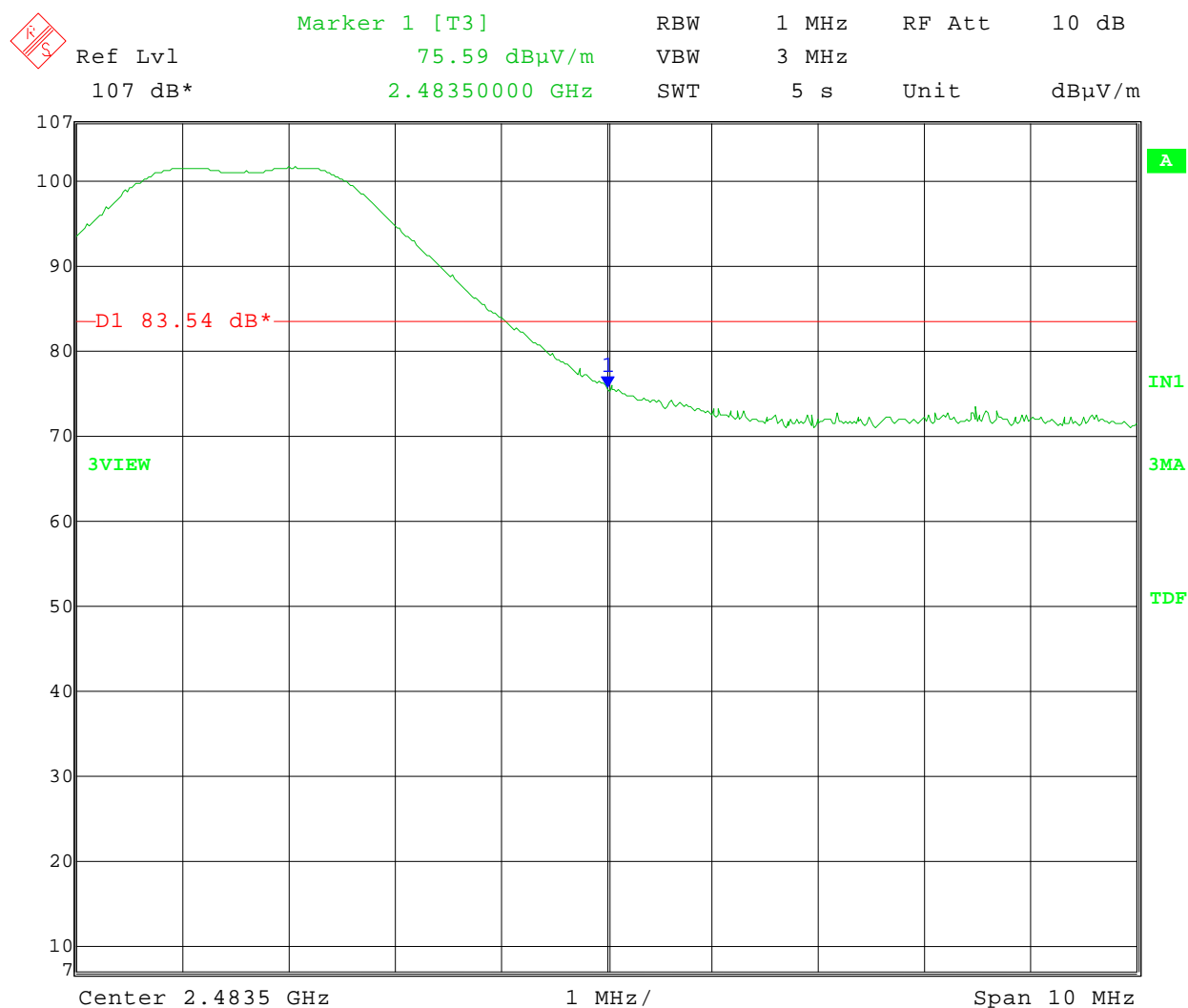
Company: Dentsply Professional  
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Test Date: 12-14-2010  
Company: Dentsply Professional  
EUT: Proply Solutions handpiece Model: 761255  
Test: Upper Band-Edge Radiated  
Rule part: FCC Part 15.249 and FCC Part 15.205  
Band-Edge Frequency: 2.4835 GHz  
Operator: Craig B  
Comment: High Channel: Frequency – 2.480 GHz  
Test distance: 1 meter

Peak Limit = 83.54; Average Limit 63.54

Measured peak level = 75.59 dBuV/m

Measured average level = 75.59 – 20 (duty cycle correction) = 55.59 dBuV/m



Date: 14.DEC.2010 13:35:30



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## Appendix B

### 3.0 Duty Cycle Correction

#### Rule Part:

15.35 (c)

#### Test Procedure:

ANSI C63.4-2009 and ANSI C63.10-2009

#### Limit:

Informative

#### Results:

Informative

#### Sample Equation(s):

See data

#### Notes:

The unit does not transmit continuously in normal operation. Compliance is determined measuring the EUT in continuous transmit mode, and comparing the peak data, minus duty cycle correction of normal operation, to the average limit. The peak limit is still applicable without duty cycle correction.



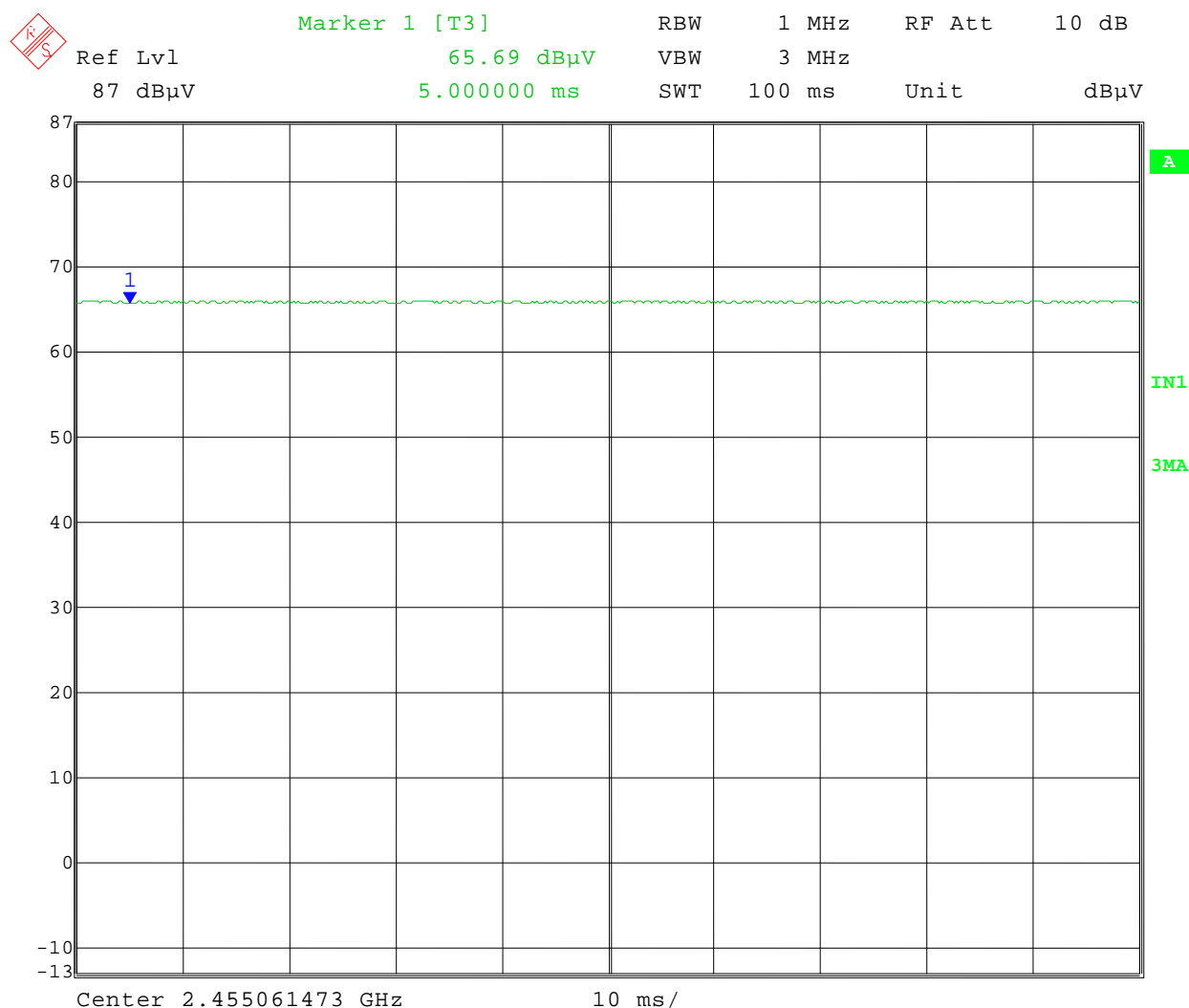
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## Appendix B

Test Date: 12-14-2010  
Company: Dentsply Professional  
EUT: Prophy Solutions handpiece Model: 761255  
Test: Duty Cycle – special mode for testing purposes  
Operator: Craig B

Comment: Continuous Transmit  
Total ON time in 100 ms = 100 ms



Date: 14.DEC.2010 10:59:32



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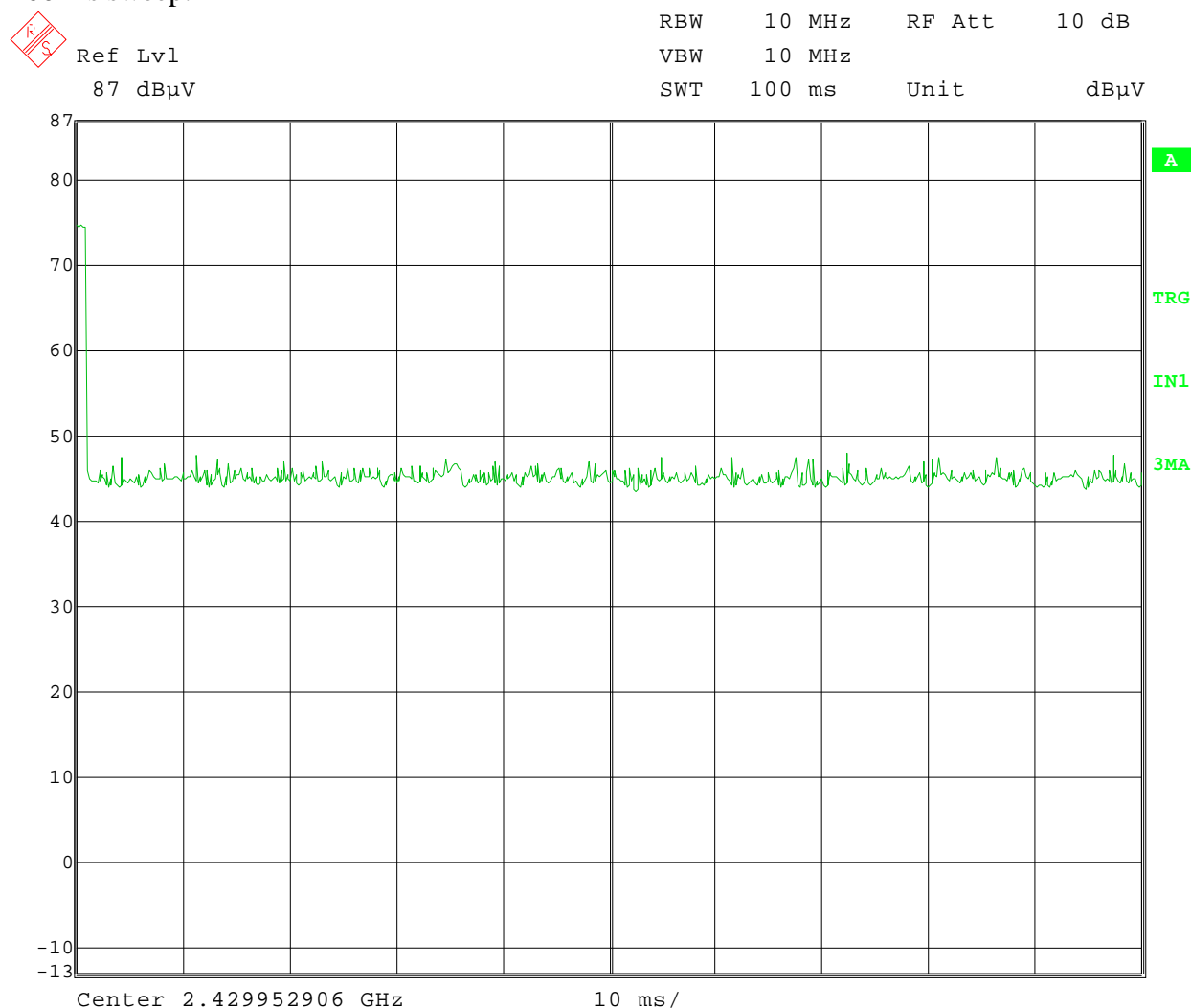
Company: Dentsply Professional  
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## Appendix B

Test Date: 12-14-2010  
Company: Dentsply Professional  
EUT: Prophy Solutions handpiece Model: 761255  
Test: Duty Cycle – worst case for normal operation  
Operator: Craig B

Comment: One pulse during 100 ms: 1.112224 ms  
Duty Cycle correction =  $20 \log(1.112224/100) = -39 \text{ dB}$

100 ms sweep:



Date: 14.DEC.2010 09:41:39



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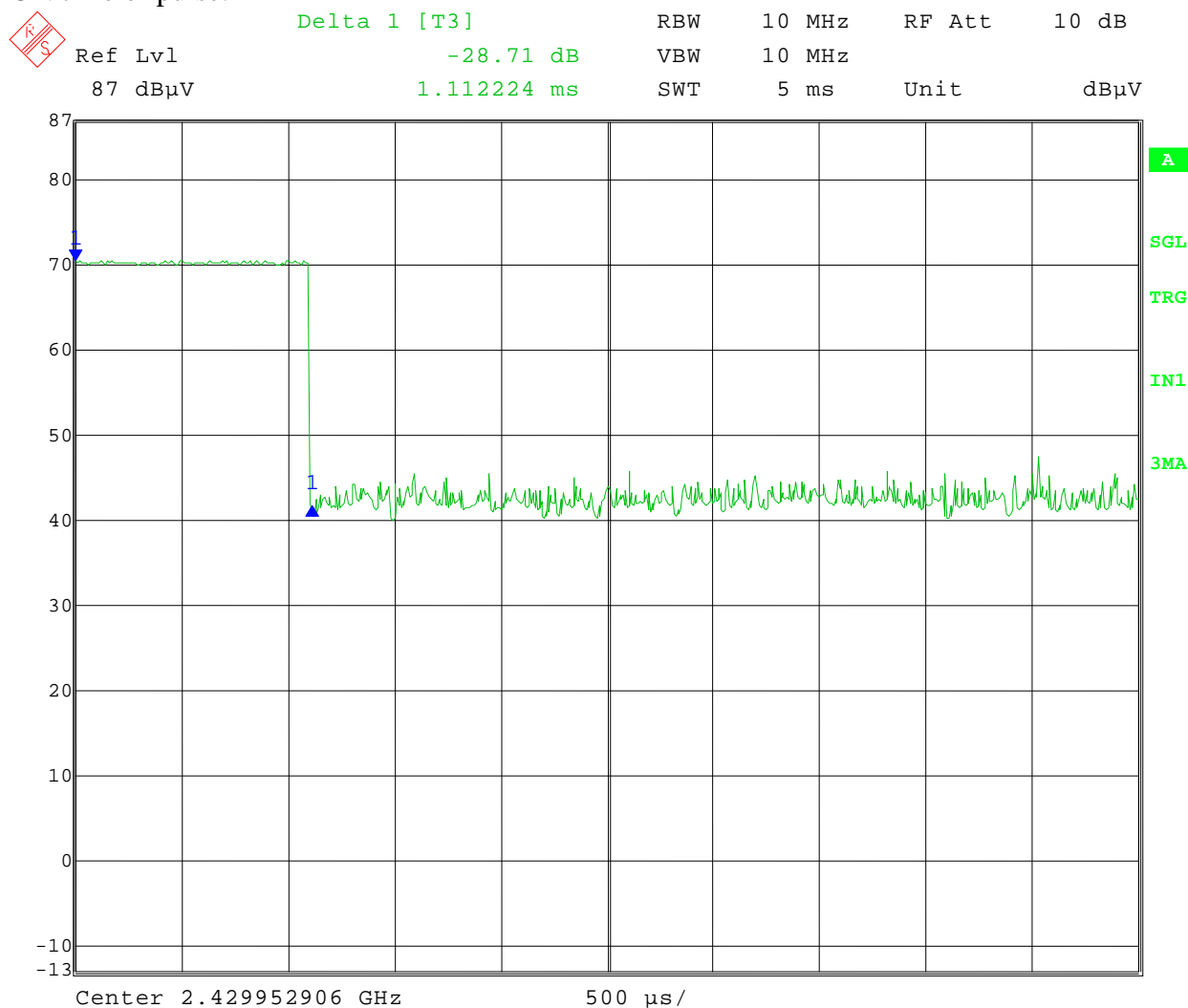
Company: Dentsply Professional  
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## Appendix B

Test Date: 12-14-2010  
Company: Dentsply Professional  
EUT: Prophy Solutions handpiece Model: 761255  
Test: Duty Cycle – worst case for normal operation  
Operator: Craig B

Comment: One pulse during 100 ms: 1.112224 ms  
Duty Cycle correction =  $20 \log(1.11224/100) = -39 \text{ dB}$

ON time of pulse:



Date: 14.DEC.2010 09:52:48



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## Appendix B

### 4.0 Field Strength of Emissions – Fundamental and Spurious

#### Rule Part:

15.249 including 15.205

#### Test Procedure:

ANSI C63.4-2009 and ANSI C63.10-2009

#### Limit:

15.249 (a)

#### Results:

Compliant

#### Sample Equation(s):

Final Corrected = Total Level - Duty Cycle Correction

Margin = Limit - Final Corrected

Level = Total Level - System Loss - Antenna Factor

#### Notes:

The EUT was rotated in 3 orthogonal planes and the highest emission was recorded. The unit does not transmit continuously in normal operation. Compliance is determined measuring the EUT in continuous transmit mode, and comparing the peak data, minus duty cycle correction of normal operation, to the average limit. The peak limit is still applicable without duty cycle correction.



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## Radiated Fundamental and Spurious Emissions – 1 GHz to 25 GHz

Tested at a 3 Meter Distance: 1-18 GHz

Tested at a 1 Meter Distance: 18-25 GHz

**EUT:** Prophy Solutions handpiece Model: 761255  
**Manufacturer:** Dentsply Professional  
**Operating Condition:** 65 deg F; 25% R.H.  
**Test Site:** Site 2  
**Operator:** Craig B  
**Test Specification:** FCC Part 15.249  
**Comment:** Battery Operated  
**Date:** 12-14-2010; 12-15-2010

**Notes:** All other emissions at least 20 dB under the limit.  
 All measurements were made with a peak detector.

### CHANNEL: 15

Frequency (GHz)	Measurement Type	Antenna Polarization	Level (dBuV)	Antenna Factor (dB/m)	System Loss (dB)	Total Level (dBuV/m)	Duty Cycle Correction	Final Corrected (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	EUT Angle (deg)	Comment
2.480	Max Peak	Vertical	57.54	28.69	3.1	89.33	0	89.33	114.00	24.7	1.2	120	F
	Average						20	69.33	94.00				
	Max Peak	Horizontal	62.51	28.69	3.1	94.30	0	94.3	114.00	19.7	1.1	75	
	Average						20	74.3	94.00				
4.960	Max Peak	Vertical	54.77	33.25	-34.9	53.12	0	53.12	74.00	20.9	1.2	90	H
	Average						20	33.12	54.00				
	Max Peak	Horizontal	52.36	33.25	-34.9	50.71	0	50.71	74.00	23.3	1.1	280	
	Average						20	30.71	54.00				
7.440	Max Peak	Vertical	47.34	36.54	-30.9	52.98	0	52.98	74.00	21.0	1.0	45	H
	Average						20	32.98	54.00				
	Max Peak	Horizontal	46.46	36.54	-30.9	52.10	0	52.1	74.00	21.9	1.0	315	
	Average						20	32.1	54.00				



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## Radiated Fundamental and Spurious Emissions – 1 GHz to 25 GHz

Tested at a 3 Meter Distance: 1-18 GHz

Tested at a 1 Meter Distance: 18-25 GHz

EUT: Prophy Solutions handpiece Model: 761255  
 Manufacturer: Dentsply Professional  
 Operating Condition: 65 deg F; 25% R.H.  
 Test Site: Site 2  
 Operator: Craig B  
 Test Specification: FCC Part 15.249  
 Comment: Battery Operated  
 Date: 12-14-2010; 12-15-2010

Notes: All other emissions at least 20 dB under the limit.  
 All measurements were made with a peak detector.

### CHANNEL: 0

Frequency (GHz)	Measurement Type	Antenna Polarization	Level (dBuV)	Antenna Factor (dB/m)	System Loss (dB)	Total Level (dBuV/m)	Duty Cycle Correction	Final Corrected (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	EUT Angle (deg)	Comment
2.405	Max Peak	Vertical	54.09	28.53	3.1	85.72	0	85.72	114.00	28.3	1.3	35	F
	Average						20	65.72	94.00				
	Max Peak	Horizontal	59.13	28.53	3.1	90.76	0	90.76	114.00	23.2	1.1	90	
	Average						20	70.76	94.00				
4.810	Max Peak	Vertical	55.32	32.84	-34.8	53.36	0	53.36	74.00	20.6	1.0	270	H
	Average						20	33.36	54.00				
	Max Peak	Horizontal	53.28	32.84	-34.8	51.32	0	51.32	74.00	22.7	1.0	300	
	Average						20	31.32	54.00				
7.215	Max Peak	Vertical	49.38	35.86	-32.3	52.94	0	52.94	74.00	21.1	1.1	60	H
	Average						20	32.94	54.00				
	Max Peak	Horizontal	50.25	35.86	-32.3	53.81	0	53.81	74.00	20.2	1.3	80	
	Average						20	33.81	54.00				





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## Radiated Fundamental and Spurious Emissions – 1 GHz to 25 GHz

Tested at a 3 Meter Distance: 1-18 GHz

Tested at a 1 Meter Distance: 18-25 GHz

EUT: Prophy Solutions handpiece Model: 761255  
 Manufacturer: Dentsply Professional  
 Operating Condition: 65 deg F; 25% R.H.  
 Test Site: Site 2  
 Operator: Craig B  
 Test Specification: FCC Part 15.249  
 Comment: Battery Operated  
 Date: 12-14-2010; 12-15-2010

Notes: All other emissions at least 20 dB under the limit.  
 All measurements were made with a peak detector.

### CHANNEL: 8

Frequency (GHz)	Measurement Type	Antenna Polarization	Level (dBu V)	Antenna Factor (dB/m)	System Loss (dB)	Total Level (dBu V/m)	Duty Cycle Correction	Final Corrected (dBu V/m)	Limit (dBu V/m)	Margin (dB)	Antenna Height (m)	EUT Angle (deg)	Comment
2.445	Max Peak	Vertical	54.74	28.62	3.1	86.46	0	86.46	114.00	27.5	1.1	120	F
	Average						20	66.46	94.00				
	Max Peak	Horizontal	59.53	28.62	3.1	91.25	0	91.25	114.00	22.8	1.1	270	
	Average						20	71.25	94.00				
4.890	Max Peak	Vertical	54.85	33.09	-34.7	53.24	0	53.24	74.00	20.8	1.0	110	H
	Average						20	33.24	54.00				
	Max Peak	Horizontal	52.54	33.09	-34.7	50.93	0	50.93	74.00	23.1	1.1	280	
	Average						20	30.93	54.00				
7.335	Max Peak	Vertical	49.3	36.41	-31.6	54.11	0	54.11	74.00	19.9	1.4	315	H
	Average						20	34.11	54.00				
	Max Peak	Horizontal	49.18	36.41	-31.6	53.99	0	53.99	74.00	20.0	1.0	300	
	Average						20	33.99	54.00				



166 South Carter, Genoa City, WI 53128

Company: Dentsply Professional  
Model Tested: 761255  
Report Number: 16681  
Project Number: 4349

## END OF REPORT

Revision #	Date	Comments	By
1.0	01-13-2011	Preliminary Release	AA