

04/29/2025

Devicor Medical Products Inc.  
300 E-Business Way, Fifth Floor  
Cincinnati, OH 45241  
USA

Dear Kyle Wagner,

Enclosed is the RF exposure test report for testing of the Devicor Medical Products Inc., Mammoth AutoCore Charging Base, tested to the requirements of FCC Part 1.1310 using the procedures from KDB 680106 D01 Wireless Power Transfer v04.

Thank you for using the services of Eurofins E&E North America. If you have any questions regarding these results or if MET can be of further service to you, please do feel free to contact me.

Sincerely,



Nancy LaBrecque  
Documentation Department  
Eurofins Electrical and Electronic Testing NA, Inc.

Reference: WIR121643-FCC KDB 680106 WPT\_R1



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## **RF Exposure Test Report**

for the

**Devicor Medical Products Inc.  
Mammotome AutoCore Charging Base**

**Tested under**

**FCC Part 1.1310**

**Report: WIR121643-FCC KDB 680106 WPT\_R1**

04/29/2025

**Prepared For:**

**300 E-Business Way, Fifth Floor  
Cincinnati, OH 45241  
USA**

**Prepared By:**  
**Eurofins E&E North America**  
13501 McCallen Pass,  
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Test Report**

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Bryan Taylor, Wireless Team Lead  
Electromagnetic Compatibility Lab



Nancy LaBrecque  
Documentation Department

**Engineering Statement:** The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of FCC Part 1.1310 under normal use and maintenance.



Matthew Hinojosa  
EMC Manager, Austin Electromagnetic Compatibility Lab

## Report Status Sheet

Revision	Report Date	Reason for Revision
0	04/02/2025	Initial Issue.
1	04/29/2025	Added measurements at multiple distances per KDB 680106

## List of Terms and Abbreviations

<b>AC</b>	<b>Alternating Current</b>
<b>ACF</b>	<b>Antenna Correction Factor</b>
<b>Cal</b>	<b>Calibration</b>
<b><i>d</i></b>	<b>Measurement Distance</b>
<b>dB</b>	<b>Decibels</b>
<b>dB<math>\mu</math>A</b>	<b>Decibels above one microamp</b>
<b>dB<math>\mu</math>V</b>	<b>Decibels above one microvolt</b>
<b>dB<math>\mu</math>A/m</b>	<b>Decibels above one microamp per meter</b>
<b>dB<math>\mu</math>V/m</b>	<b>Decibels above one microvolt per meter</b>
<b>DC</b>	<b>Direct Current</b>
<b>E</b>	<b>Electric Field</b>
<b>DSL</b>	<b>Digital Subscriber Line</b>
<b>ESD</b>	<b>Electrostatic Discharge</b>
<b>EUT</b>	<b>Equipment Under Test</b>
<b><i>f</i></b>	<b>Frequency</b>
<b>CISPR</b>	<b>Comite International Special des Perturbations Radioelectriques (International Special Committee on Radio Interference)</b>
<b>GRP</b>	<b>Ground Reference Plane</b>
<b>H</b>	<b>Magnetic Field</b>
<b>HCP</b>	<b>Horizontal Coupling Plane</b>
<b>Hz</b>	<b>Hertz</b>
<b>IEC</b>	<b>International Electrotechnical Commission</b>
<b>kHz</b>	<b>kiloHertz</b>
<b>kPa</b>	<b>kiloPascal</b>
<b>kV</b>	<b>kilovolt</b>
<b>LISN</b>	<b>Line Impedance Stabilization Network</b>
<b>MHz</b>	<b>MegaHertz</b>
<b><math>\mu</math>H</b>	<b>microHenry</b>
<b><math>\mu</math>F</b>	<b>microFarad</b>
<b><math>\mu</math>s</b>	<b>microseconds</b>
<b>PRF</b>	<b>Pulse Repetition Frequency</b>
<b>RF</b>	<b>Radio Frequency</b>
<b>RMS</b>	<b>Root-Mean-Square</b>
<b>V/m</b>	<b>Volts per meter</b>
<b>VCP</b>	<b>Vertical Coupling Plane</b>

**1.0 Requirements Summary**

Page Number	Test Name	Result
12	FCC Part 1.1310 E and H Field Measurements	Compliant

**Table 1. Summary of Test Results**

## 2.0 Equipment Configuration

### 2.1 Overview

Eurofins E&E North America was contracted by Devicor Medical Products Inc. to perform testing on the Mammotome AutoCore Charging Base.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the Devicor Medical Products Inc. Mammotome AutoCore Charging Base.

The results obtained relate only to the item(s) tested.

<b>Model(s) Tested:</b>	Mammotome AutoCore Charging Base	
<b>Model(s) Covered:</b>	MAHCB	
<b>FCCID:</b>	2ATMT-MAHCB01	
<b>Sample Number:</b>	22609-15	
<b>EUT Specifications:</b>	<b>Power Method</b>	5VDC via a 120VAC power adapter
	<b>Type of Modulation(s):</b>	ASK
	<b>Antenna Type:</b>	Coil Antenna
	<b>EUT Frequency Ranges:</b>	125kHz – 180kHz
<b>Environmental Test Conditions:</b>	Temperature: 15-35° C	
	Relative Humidity: 30-60%	
	Barometric Pressure: 860-1060 mbar	
<b>Evaluated by:</b>	Bryan Taylor	
<b>Report Date</b>	04/29/2025	
<b>Selected Operation Mode(s):</b>	Performing the wireless charging function with a sample in the charger and the battery at 0%, with the battery at 50%, and with the battery at 100% charged level.	
<b>Rationale for the selection of the Operation Mode(s):</b>	During the testing the Mammotome AutoCore Charging Base placed into the charging cradle in direct contact as is normal for this devices operation.	

**Table 2. EUT Summary Table**

## 2.2 Test Site

All testing was performed at Eurofins E&E North America, Austin, TX. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

## 2.3 References

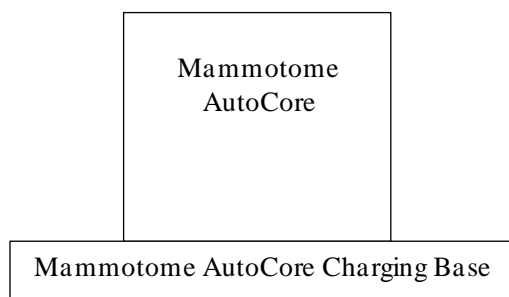
<b>FCC Rule Part 1.1310 for Mobile Exposure</b>	Radiofrequency Radiation Exposure Limits
<b>KDB 680106 D01 Wireless Power Transfer v04</b>	Equipment Authorization of Wireless Power Transfer Devices

**Table 3. References**

## 2.4 Description of Test Sample

<b>Name of EUT/Model:</b>	Mammotome AutoCore Charging Base / MAHCB
<b>Description of EUT and its intended use:</b>	The Mammotome AutoCore Single Insertion Core Biopsy System is a single insertion, automated, spring-loaded core needle device. The system is used to take breast biopsy samples. The system consists of a reusable motorized battery-powered holster, charging base, and disposable probes. The intended user is a breast surgeon in a hospital setting.

**Table 4. Equipment Overview and Test Configuration Information**



**Figure 1. Block Diagram of Test Configuration**

## 2.5 Support Equipment

The test sample was tested in a stand-alone configuration and did not have any support equipment

## 2.6 Ports and Cabling Information

Ref. ID	Port name on EUT	Cable Description or reason for no cable	Qty	Length as tested (m)	Max Length (m)	Shielded? (Y/N)	Termination Box ID & Port Name
a	DC Input to Charging Base	5VDC Cable	1	2m	2m	None	AC/DC Power Adapter

**Table 5. Ports and Cabling Information**

## 2.7 Modifications

### 2.7.1 Modifications to EUT

No modifications were made to the EUT.

### 2.7.2 Modifications to Test Standard

No modifications were made to the test standard.

## 2.8 Disposition of EUT

The test sample including all support equipment submitted to the Electro-Magnetic Compatibility Lab for testing was returned to Devicor Medical Products Inc. upon completion of testing.

### 3.0 RF Field Strength Limits per FCC Rule Part 1.1310

The RF field strength limits from FCC Part 1.1310 are shown in the table below. Note, per KDB 680106 D01 Wireless Power Transfer v04 for mobile exposure the MPE limits between 100kHz and 300kHz are to be considered the same as those at 300kHz shown in the table below.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
(i) LIMITS FOR OCCUPATIONAL/CONTROLLED EXPOSURE				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

*f* = frequency in MHz. \* = Plane-wave equivalent power density.

**Table 6. FCC Part 1.1310 Field Strength Limits**

## 4.0 Test Procedure

The electric field strength and magnetic field strength measurements were performed on the Mammotome AutoCore Charging Base at 20cm surrounding the device. Measurements were performed on the front, back, left, and right top, and bottom sides of the device and the results compared to the electric and magnetic field strength limits. These measurements were performed with the battery of the client device at 0%, 50%, and 100% charged states. The worst case of these modes was chosen for measurements at multiple distances from 20cm to 40cm in 5cm increments.

Per KDB 680106 D01 Wireless Power Transfer v04, the following items were noted:

- (1) The power transfer frequency is below 1 MHz.
- (2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts
- (3) A client device providing the maximum permitted load is placed in physical contact with the transmitter(i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)
- (4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).
- (5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power
- (6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.

## 5.0 Test Results

The Mammotome AutoCore Charging Base was **compliant** with the E and H field requirements from FCC Part 1.1310. The E-Field and H-Field measurements were all less than 50% of the applicable limit as shown in the tables below. The 0% battery mode was observed to be worst case and was used for measurements at 20cm through 40cm distances in 5cm increments.

**Test Engineer(s):** Bryan Taylor

**Test Date(s):** 4/11/2025 – 4/25/2025

Probe Position	E-Field (V/m)			H-Field (A/m)		
	Measured Value	Limit	Max % of Limit	Measured Value	Limit	% of Limit
Front	1.92	614	0.31	0.116	1.63	7.12
Left	1.34		0.22	0.072		4.42
Back	1.22		0.20	0.231		14.17
Right	1.49		0.24	0.054		3.31
Top	3.58		0.58	0.149		9.14
Bottom	1.32		0.21	0.051		3.13

**Table 7. Electric Field and Magnetic Field Measurement Results (0% Battery Level)**

Probe Position	E-Field (V/m)			H-Field (A/m)		
	Measured Value	Limit	Max % of Limit	Measured Value	Limit	% of Limit
Front	1.04	614	0.17	0.096	1.63	5.89
Left	1.62		0.26	0.042		2.58
Back	1.56		0.25	0.229		14.05
Right	1.62		0.26	0.035		2.15
Top	1.86		0.30	0.023		1.41
Bottom	1.09		0.18	0.078		4.79

**Table 8. Electric Field and Magnetic Field Measurement Results (50% Battery Level)**

Probe Position	E-Field (V/m)			H-Field (A/m)		
	Measured Value	Limit	Max % of Limit	Measured Value	Limit	% of Limit
Front	0.98	614	0.16	0.091	1.63	5.58
Left	1.49		0.24	0.043		2.64
Back	1.51		0.25	0.216		13.25
Right	1.6		0.26	0.033		2.02
Top	1.77		0.29	0.022		1.35
Bottom	1.02		0.17	0.071		4.36

**Table 9. Electric Field and Magnetic Field Measurement Results (100% Battery Level)**

Position	D (cm)	E (V/m) (Measured)	E Field Limit (V/m)	% of Limit
Front	20	1.920	614.00	0.31
	25	1.529	614.00	0.25
	30	1.229	614.00	0.20
	35	1.057	614.00	0.17
	40	0.945	614.00	0.15

Position	D (cm)	H (A/m) (Measured)	H Field Limit (A/m)	% of Limit
Front	20	0.116	1.63	7.12
	25	0.089	1.63	5.46
	30	0.081	1.63	4.97
	35	0.064	1.63	3.93
	40	0.059	1.63	3.62

**Table 10. Electric Field and Magnetic Field Measurement Results (Front Side)**

Position	D (cm)	E (V/m) (Measured)	E Field Limit (V/m)	% of Limit
Back	20	1.220	614.00	0.20
	25	0.982	614.00	0.16
	30	0.820	614.00	0.13
	35	0.687	614.00	0.11
	40	0.581	614.00	0.09

Position	D (cm)	H (A/m) (Measured)	H Field Limit (A/m)	% of Limit
Back	20	0.231	1.63	14.17
	25	0.179	1.63	10.98
	30	0.149	1.63	9.14
	35	0.136	1.63	8.34
	40	0.112	1.63	6.87

**Table 11. Electric Field and Magnetic Field Measurement Results (Back Side)**

Position	D (cm)	E (V/m) (Measured)	E Field Limit (V/m)	% of Limit
Left	20	1.340	614.00	0.22
	25	1.068	614.00	0.17
	30	0.887	614.00	0.14
	35	0.781	614.00	0.13
	40	0.665	614.00	0.11

Position	D (cm)	H (A/m) (Measured)	H Field Limit (A/m)	% of Limit
Left	20	0.072	1.63	4.42
	25	0.056	1.63	3.44
	30	0.051	1.63	3.13
	35	0.043	1.63	2.64
	40	0.038	1.63	2.33

**Table 12. Electric Field and Magnetic Field Measurement Results (Left Side)**

Position	D (cm)	E (V/m) (Measured)	E Field Limit (V/m)	% of Limit
Right	20	1.490	614.00	0.24
	25	1.189	614.00	0.19
	30	0.986	614.00	0.16
	35	0.812	614.00	0.13
	40	0.716	614.00	0.12

Position	D (cm)	H (A/m) (Measured)	H Field Limit (A/m)	% of Limit
Right	20	0.054	1.63	3.31
	25	0.041	1.63	2.52
	30	0.038	1.63	2.33
	35	0.033	1.63	2.02
	40	0.029	1.63	1.78

**Table 13. Electric Field and Magnetic Field Measurement Results (Right Side)**

Position	D (cm)	E (V/m) (Measured)	E Field Limit (V/m)	% of Limit
Top	20	3.580	614.00	0.58
	25	2.798	614.00	0.46
	30	2.413	614.00	0.39
	35	2.108	614.00	0.34
	40	1.719	614.00	0.28

Position	D (cm)	H (A/m) (Measured)	H Field Limit (A/m)	% of Limit
Top	20	0.149	1.63	9.14
	25	0.115	1.63	7.06
	30	0.101	1.63	6.20
	35	0.083	1.63	5.09
	40	0.072	1.63	4.42

**Table 14. Electric Field and Magnetic Field Measurement Results (Top Side)**

Position	D (cm)	E (V/m) (Measured)	E Field Limit (V/m)	% of Limit
Bottom	20	1.320	614.00	0.21
	25	1.073	614.00	0.17
	30	0.912	614.00	0.15
	35	0.789	614.00	0.13
	40	0.651	614.00	0.11

Position	D (cm)	H (A/m) (Measured)	H Field Limit (A/m)	% of Limit
Bottom	20	0.051	1.63	3.13
	25	0.043	1.63	2.64
	30	0.036	1.63	2.21
	35	0.027	1.63	1.66
	40	0.024	1.63	1.47

**Table 15. Electric Field and Magnetic Field Measurement Results (Bottom Side)**

Requirement of KDB 680106	Yes / No	Comment
The power transfer frequency is below 1 MHz	Yes	The device operation range is less than 1MHz
The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.	Yes	The maximum output power of the coil is 5W
A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)	Yes	The client device is placed into direct contact with the charging base during operation.
Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).	Yes	Mobile exposure conditions only
The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit	Yes	The E-field and H-field strengths at and beyond 20 cm surrounding the device from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.
For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded.	Yes	Testing was performed with the system fully loaded.

**Table 16. KDB 680106 D01 Wireless Power Transfer v04 Specific Items for Mobile Exposure**

## 6.0 Test Equipment

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

MET Asset #	Nomenclature	Manufacturer	Model	Last Cal Date	Cal Due Date
1A1239	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	9/17/2024	9/17/2026

**Table 17. Test Equipment Used**