

FUSION**IONZ** EMF

# PR**TECT**<sup>TM</sup>

ELECTROMAGNETIC PROTECTION



LABORATORY TEST RESULTS

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**Laboratory Test to identify the efficacy of the Fusion  
IONZ EMF PROTECT in regards to EMF radiation  
reduction, Negative Ion Output and Cell Phone  
Reception**

**Date of Testing:** 12/5/2014

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# **Independent Laboratory EMF Emissions Test**

**Abstract:** The purpose of today's laboratory experiment was to test the EMF or electro magnetic frequency emissions of an Apple Iphone 5 smartphone with and without the Fusion IONZ EMF Protect insert to measure it's efficacy in removing radiation. In addition, we tested the negative ion output of the insert and the ionic environment at face level. Finally, we tested the signal strength during a call to measure the insert's effect on signal strength.

## **Equipment Used:**

- Com Systems, INC 3010 PRO Negative Ion Meter
- Cell Sensor, Cellular EMF Detection Meter

## **Testing Facility:**

Laboratory Controlled Environment

## **Testing Standards:**

The testing standards for this laboratory test were as follows. Fusion IONZ provided the testing equipment and testing instructions. The laboratory technicians then independently conducted the tests. The laboratory is not making any inference, suggestion or endorsement of the efficacy of the Fusion IONZ EMF Protect insert, or the proposed product claims. This is not a function of the laboratory. The laboratory simply conducts scientific tests under lab-controlled standards and reports the results.

## **Negative Ion Output**

The negative ion output of the Fusion IONZ EMF Protect cell insert was tested.

**Recorded Negative Ion Output: 10,490**

Results Summary: Fusion IONZ EMF Protect was tested to emit 10,490 negative ions per CC, per second.

### **EMF Emissions Testing**

We tested the EMF Emission from the cell phone in a variety of scenarios. We recorded in milligauss, which is the standard of measure commonly used in tested electromagnetic fields and radiation output. We tested approximately .25 of an inch from the face, this is the estimated face placement during a phone conversation.

**Baseline Environmental Test: 9.8**

Cell Phone Turned on at Rest: **72.6**

Cell Phone Turned on at Rest w/ Insert: **12.1**

Cell Phone Turned on and Connected: **87** (Maxed Out)

Cell Phone Turned on and Connected w/ Insert: **13.4**

### **Summary**

When the cell phone was at rest the Fusion IONZ EMF reduced the radiation output by **97.64%**. When the phone was actively making a phone call the Fusion IONZ EMF Protect reduced the radiation output by **96.54%**. However, this may be skewed because the meter maxed out at **87** and we cannot confirm the highest peak.

### **Ionic Environment Test**

We tested the ionic environment roughly .25 inches above the cell phone. This would be the estimated face position.

Base ionic reading: **15 Negative Ions**

Cell Phone turned on: **0 (We can't calculate positive ions)**

Cell Phone turned on at rest with Insert: **764 negative ions**

Cell Phone turned on and connected with Insert: **568 negative ions**

### **Summary:**

The cell phone at rest and connected, without the insert did not show any negative ion activity. The addition of the insert created a negative ion environment in the hundreds per second at projected face level.

### **Cell Phone Signal Test**

We tested the Cell Phone for signal strength with and without the insert. For this test we are using the dBm measurement, which is the signal power ratio in decibels.

Signal strength during call: -82

Signal strength during call with insert: -82

**Summary:** Cell phone signal strength did not change when Fusion IONZ insert was applied.