CALIFORNIA STATE SCIENCE FAIR
2010 PROJECT SUMMARY

Name(s)
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Project Number
J2210

Project Title
Which Type of Cell Phone Emits the Most Radiation?

Abstract

Objectives/Goals
In my experiment I tested four cell phones. I tested an LG env3, a Pantec Matrix, a Blackberry Curve and a Blackberry Pearl. My hypothesis was that the Blackberry Curve would emit the most RF Radiation.

Methods/Materials
LG env3, a Pantec Matrix, a Blackberry Curve and a Blackberry Pearl. I put one phone at a time on a table and waved the probe over it. Then I used my house phone to call that phone and waved the probe over it again. I repeated this with the other three phones and recorded all the data.

Results
The phone with the highest radiation was the Blackberry Curve, at 1.9mW/cm2. Then was the Blackberry Pearl at 1.3mW/cm2, then the Pantec Matrix at 1.26mW/cm2. The phone with the lowest RF radiation emissions was the LGenv3 at 1.16mW/cm2. These were the average of four separate trials.

Conclusions/Discussion
My testing proved my experiment correct. The Blackberry Curve had the most emissions.

Summary Statement
the amount of harmful, non ionizing radiation emitted by cell phones.

Help Received
Mother helped glue items on board.