



Electromagnetic Fields

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If you're reading this page, I can take it that you have seen the TV shows, read up on paranormal research or are having suspected paranormal events happening to you. You have probably seen or read about EMF's and wondered what they are all about.

We are surrounded by natural EM forces our whole lives not only by naturally occurring EMF fields produced by the Earth, but also from manufactured sources. It affects the behaviour of charged objects in the vicinity of the field. The field can be viewed as the combination of an electric field and a magnetic field. The electric field is produced by stationary charges, and the magnetic field by moving charges; these two are often described as the sources of the field. In fact, right now you in the middle of a low-level EMF field right now. Your computer, cell phone, lights, TV, in fact anything in your house creates an EMF field. Studies have found that these are *not detrimental to your health*.

There are many theories out there, and one that is highly propagated in the media, is that these EMF fields are a sign that ghosts are present. While this field is primarily theory based, this is a theory that I cannot subscribe to. But, there is a correlation between areas where there are high EMF readings and where ghosts are seen. And this is data that cannot be ignored and should not be.

So instead of jumping from A, *there's a high EMF field* to C, *there are ghosts present* we have to look at B, *what is the EMF doing to our neurochemistry?*

So let's look at B. What IS EMF doing to our neurochemistry? The central nervous system (CNS) is dependent on electrical signalling and forms appropriate, complex connections and networks. The CNS is therefore potentially among the most important targets for electromagnetic field (EMF) effects. Immune cells are reportedly among the most sensitive cells to EMF effects. Brain microglia, *the resident immune cells of the CNS*, can be stimulated to produce a number of cytokines, which have been shown to be important in certain aspects of brain function, as well as in inflammatory and neurotoxic responses to brain injury in adults.

When your neurochemistry is being affected by a high EMF field, it can cause you to see things, hear things, feel nervous or any other number of feelings or hallucinations. Once your CNS is being misdirected by a high EMF field, it is entirely possible for your brain to attempt to make sense of the orders it is being given by creating any of the above phenomena.

Most paranormal investigators, including the Paranormal Research Association of Boston, use meters that measure in mG (*mili-Gauss*) or Gauss, which measures magnetic force. The field that surrounds an object is not linear; instead it is spherical, as with most forms of energy. It surrounds an object in a dome so to speak. The further away from the center of the EMF source you go, the readings dissipate exponentially. This graph from the EPA shows the different EMF output from common appliances

Distance from source	6"	1'	2'	4'
Fluorescent Lighting				
Lowest	20	-	-	-
Median	40	6	2	-
Highest	100	30	8	4
Ceiling Fans				
Lowest	-	-	-	-
Median	3	-	-	-
Highest	50	6	1	-
Microwave Ovens				
Lowest	100	1	1	-
Median	200	40	10	2
Highest	300	200	30	20

Paranormal investigators can use this data to explain possible paranormal phenomena, or more to the point perceived paranormal phenomena. And a good investigator always looks at the whole area before jumping to a conclusion.