

Radiation and Environmental Surveys

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## OPINION

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### **ASSESSMENT:**

#### **Research Report:**

**Influence of the Aires Shield electromagnetic anomaly neutralizer on changes in EEG parameters caused by a mobile phone's electromagnetic field**

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#### **Prepared for the submitters:**

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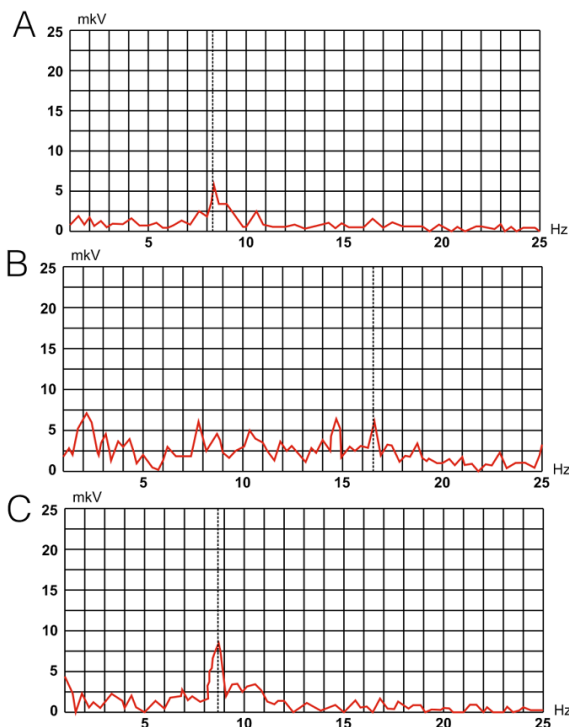
The purpose of the Research Report, *Influence of the Aires Shield electromagnetic anomaly neutralizer on changes in EEG parameters caused by a mobile phone's electromagnetic field* prepared by **L. Rybina** and **B. Alexandrov** is to examine the electroencephalographic (EEG) modifications associated with electromagnetic emissions from extremely low frequency to microwave band emissions from typical cellphone and like wireless communication devices, and the interaction of such modification with the presence of Aires technology devices.

To determine the influence on EEG parameters of, this research was conducted on what we consider, in our opinion to be an acceptable sample of individuals (15) for a non-child age cohort and for relevant exposure durations with the precaution of corrective 24-hour monitoring intervals.

It would be useful to consider also conducting such research on younger cohorts in view of the fact that children represent a significant segment of wireless users, worldwide while their EEG topology may differ.

We also note that the central nervous system/CNS functional-state indicators were conducted in due form for an appropriate range of physiological spectrum band (0.5 – 24 Hz). The choice of indicators for background standard stress, and then for realistic cell-phone, Wi-Fi user conditions (waiting, conversation and post-conversation modes) that, overall, properly reflect the various phases of actual communications signalling characteristics of intensity and waveforms.

The observations associated with effects induced with and without exposure to broadband electromagnetic microwave from current wireless communication devices are revealing.



In the Research Report’s figure (left), **Graph A** tracing, frequency amplitude intensity of electrical brain activity in “apparently healthy” individuals is typical. The degree of an individual’s coherence tends to peak consistently at near 7-8 Hz peaks (Schumann resonance), considered to indicate “attentiveness”. Smaller-peaking (cholinergic), at lower ranges (3 – 5 Hz) and at higher (adrenergic 10 + Hz), spectrum band emerge from all manner of CNS affects.

These smaller intensity peaks are dependent on numerous biological and psychological parameters, including trauma, similar to **PTSD (Post Trauma Stress Disorder)**, and are considered by neurophysiologists and trauma experts to involve the attempts by individuals to organize the meaning of incoming information, resulting in non-synchronized patterns, as the brain has trouble filtering out irrelevant information .

**Graph B**, which monitors brain activity subjected to exposure to broadband electromagnetic signalling indicates:

- 1) Coupling and entrainment effect from the 2Hz emissions from the wireless devices (which are known to induce subsequent heart frequency issues);
- 2) Dampening of the coherence of “attentiveness” (Schumann resonance)
- 3) Intensified processing of random, non-linear, stress-provoking information well into anomalous “disorganization”, adrenergic brainwave activity.

**Graph C** records that the presence of an **Aires** device not only restores the brain activity profile to a parallel pattern that is observable in a relatively wireless-free environment in “apparently healthy” individuals. This re-adjustment towards “attentiveness” is observed notwithstanding the considerable suppression and frequency-displacement of electromagnetic signalling affects.

It can be stated that with this adjustment, an individual’s brain retains an organization, (“coding” and “adaptation”) ability to pay careful attention to what is going on in “the present moment”, that is: also retaining the ability to “learn” during the immediate information processing. As has stated French psychologist, **Pierre Janet** in 1889, “Traumatic stress is an illness of not being able to be fully alive in the present”. Changing dysfunctional brain-wave patterns is a key to resolving adverse effects.

It may be useful to develop tests to collect information on how mental development in youth and in individuals , over a few months, might represent enhancement in clarifying their perception of the environment, learning, adaptation and their self-regulation – as a result of re-adjustment through the **Aires** technology.

The Research report’s Figure 2 articulates the above findings, such as the relative “overdrive” of brain activity, which can, for example trigger such physiological responses as sweating, heart and blood pressure modifications, from the release of stress hormones and the CNS nervous system response. This EEG spectral distribution analysis is appropriate in helping to identify the paths associated with disturbed and re-adjustment of the **Aires** system.

The remaining Figures 3, 4 and 5 articulate the nature of the filtering process of irrelevant “information” that is enabled in particularly vulnerable and affect brain regions and their inter-nodal potential differentials. This is kind of **Aires**-affected compensatory adjustment that should decrease deleterious effects through the CNS and its regulatory processes. This type of analysis (and software application) is of an advanced nature and deserves considerable development towards the understanding the bioenergetics associated with environmental exposure of the full range of the electromagnetism.

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In conclusion, we find this Research Report to be impressive, well-conducted and expressed to represent real, *in-vivo* conditions associated with portable wireless technology devices and their effects on the CNS through interaction with brain activity, as well as an explanation of the nature of the effectiveness of the Aires technology to re-adjust compatibly such affectation into more “normal” conditions. The nature of the findings are aligned with the clinical observations Neurophysiological and Neuroscience experts worldwide, generally since a decade or so into brain processing of “information”.

This study’s results demonstrate the effectiveness of Aires technology in reducing the deleterious affectation from portable wireless technology devices associated with the central nervous system via brain activity.



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