

EMF ADVISORY UNIT FACT SHEET SERIES

ELECTROMAGNETIC FIELD SOURCES IN THE HOME

A description of sources of radio signals in the home

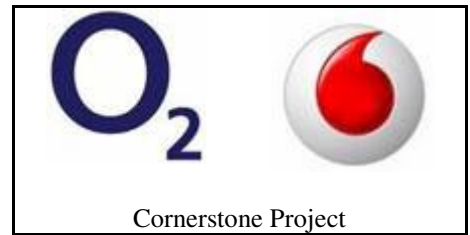
Radio frequency fields are a type of electromagnetic field. Virtually everyone in the modern world is exposed to electromagnetic fields generated by man-made sources. These include TV and radio, communications by the emergency services, medical sources and factory equipment. In the home, Wi Fi devices, baby-listening devices and any household appliances that use electricity produce electromagnetic fields in their normal operation.

Much like mobile phone base stations all these devices comply with the precautionary International Commission on Non-Ionizing Radiation Protection (ICNIRP) public exposure guidelines as adopted in a European Union recommendation. These guidelines, which have the formal backing of the World Health Organisation, have been set following a thorough review of the science and took into consideration **both thermal and non-thermal effects**. They are designed to protect all sectors of the population, 24 hours a day, wherever they are in relation to a radio base station.

| Appliance | Percentage of the ICNIRP public exposure guidelines (at publicly accessible locations) |
|---------------------------|--|
| Radio tuner | 3.5 |
| Microwave oven | 7.7 |
| Electric oven | 0.5 |
| Colour television | 1.2 |
| Vacuum cleaner | 20 |
| Refrigerator | 2.4 |
| Mobile phone base station | 2.2 |

CAPE EMF Fact Sheets
Owner: Dr. Rob Matthews
Electromagnetic Field Sources in The Home v1.0
2010 Cornerstone

The Cornerstone Team is comprised of individuals employed either by Telefónica O2 UK Limited or Vodafone UK Limited. It exists to facilitate network infrastructure sharing arrangements between the two companies, but not as an entity in its own right. Neither company is an agent for the other and the members of the Cornerstone Team employed by one company are not agents for the other company. The Cornerstone Team is not a partnership, nor is it incorporated as a limited company. It cannot enter into contracts, and cannot be responsible for debts, whether in its own name or on behalf of Telefónica O2 UK Limited or Vodafone UK Limited.



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