

SAR

SAR is the measurement of the energy rate absorbed by the body when exposed to a radio frequency electromagnetic field.

The health effects of cell phone usage has received much attention in the media during recent years. The RF energy from mobile phones is known to generate heat in the body. Studies have not reached conclusive results as to whether this type of exposure has detrimental effects for people's health.

Nemko offers SAR testing (Specific Absorption Rate) for handheld telecom products.

We can arrange for SAR testing to be carried out in Europe or the USA. If the SAR testing is part of a larger test assignment at Nemko, we are able to offer both a very competitive price and a short lead time.

Nemko can also assist with the following

- Handling of test samples
- Documentation
- Test reports

SAR Requirements

- US: the FCC requires that phones sold have a SAR level at or below 1.6 W per kg (W/kg) taken over a volume of 1 gram of tissue.
- EU: EN standard specify SAR limits within the EU, following IEC standards. For mobile phones and other such handheld devices, the SAR limit is 2 W/kg averaged over 10 g of tissue IEC 62209

What happens if you make a mobile phone call? – your brain temperature increases

Source URL: <https://www.nemko.com/product-testing/wireless-telecom/sar>