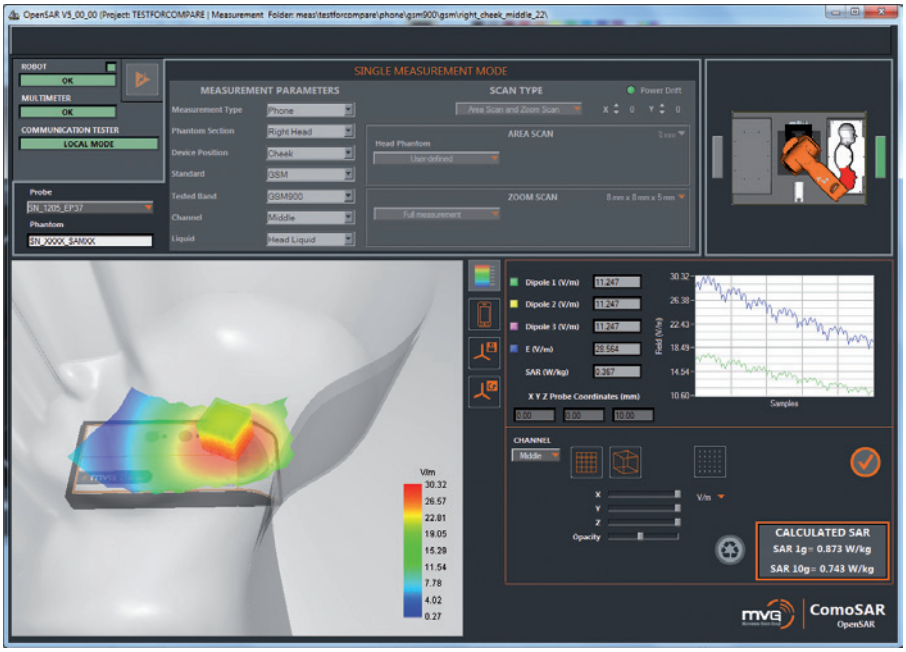
OPENSAR SW



OPENSAR software has been developed to perform SAR standard compliant measurements. It is part of MVG's COMOSAR bench and controls all the instrumentation delivered with this bench.

In addition, OPENSAR can easily integrate additional drivers upon customer request. OPENSAR software also uses optimized algorithms, particularly useful for the development phase of handset design.

Main features

Product category

- Software

Function

- Controls ComoSAR test bench instrumentation for both certification and fast R&D measurements

User profile

- SAR bench users

Related standard

- IEEE 1528; FCC OET Bulletin 65 (Ed. 97-01) supplement C and all related KDB ; IEC 62209-1/ IEC 62209-2; EN 50361:2001; EN 50383

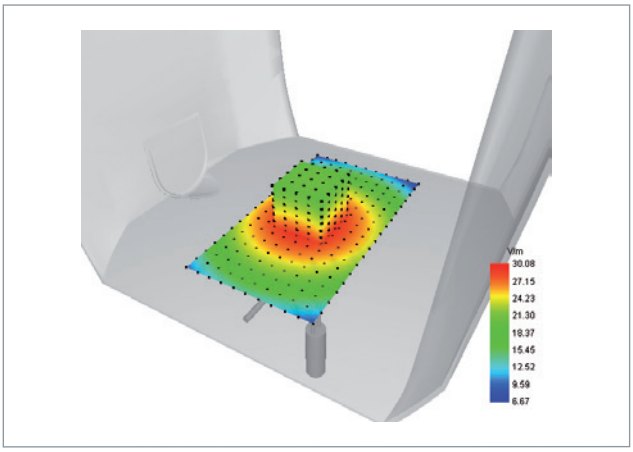
Related equipment

- Liquid measurement (LimeSAR)

Main Functions

OPENSAR is a user-friendly interface to supervise the proper functioning of the system:

- Configures measurement: once the measurement parameters have been defined, they will be loaded automatically.
- Imports handset 3D files to be used by the interface (3DS, IGES, STEP……).
- Defines easily the probe path and resolution in plane and volume mode.
- Generates Word reports automatically and customizes the format of these reports.
- Gives views of E field amplitude in 3 modes:
  - 3 D view of plane and volume measurements,
  - 2 D view for each sensor of the probe and cut plan of the points being currently measured during the volume scan measurement.



The measurement of liquid dielectric properties is a module that can be integrated in OPENSAR. This enables the liquid values to be automatically updated.

Optimized algorithms to reduce measurement time

Measurement time is a key factor in SAR calculation. OPENSAR uses optimized algorithms(1) to:

- Reduce the 2D and 3D scanning time from about 15 minutes (one phone, one position, 1 channel) down to 1 minute through 2D quick peak detection and 3D cube truncation algorithms.
- Halve the calculation time through handover between the low, middle and high channels within the same frequency.

(1) "SAR Measurement time reducing via optimization algorithms and interpolation scheme", Jérôme Luc, Romain Butet, Emmanuel Le Brusq, Yann Toutain, SATIMO, Plouzané, France. Presented at BEMS conference 2006, Cancun, Mexico. This paper is referenced in the IEC 62209-2 standard.

OPENSAR SW

Hardware requirements – in medium tower (no mini)

21" screen min	PC INTEL CORE I3
Cable link	1 LAN Ethernet
Operating system	Win7 / Win10
RAM	2 GB min (8 recommended)
Software	MS OFFICE (Word/Excel); any PDF reader
Ports	LAN + 2 slot PCI + min 6 USB ports

mvg Microwave Vision Group

Contact your local sales representative for more information
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