# PR "SignalShark EMF"

## SignalShark EMF – Narda STS sets a new standard in EMF measurement

***EMF measurements and interference detection perfectly combined in one device***

**Pfullingen, September 16, 2025** – With its latest development, the SignalShark EMF, Narda STS is redefining EMF measurement technology. To achieve this, the engineers at the pioneer and world-leading provider of high-quality measurement technology in the field of electromagnetic fields have combined state-of-the-art EMF functions with the SignalShark, their powerful and highly precise spectrum analyzer & receiver. Its simple, intuitive operation opens up a world in which perfect precision and speed, reliability, and professionalism are not just empty promises, but reality for experts and beginners alike.

Thanks to its new modular application software, the robust portable device now not only masters state-of-the-art real-time spectrum analysis, signal monitoring, and localization, but also frequency-selective EMF measurement and complete, standard-compliant EMF assessment, including intelligent extrapolation of real 5G traffic signals.

**Future requirements in the field of EMF safety**

With this step, Narda STS is primarily responding to the numerous new fields of application in the area of EMF safety, which will place new demands on performance, speed, and flexibility in the foreseeable future. In addition to the 5G|5G-Advanced & 6G standards, these include developments such as TDD and Massive MIMO, beamforming and dynamic traffic, as well as all market requirements that will result from these in the future.

That is why the engineers at Narda STS have developed a "modern big brother" to complement the SRM-3006, which has established itself worldwide over many years as the industry standard for selective EMF safety measurements between 9 kHz and 6 GHz. A high-end device with the important spectrogram function (frequency over time), which measures up to 8 GHz with its isotropic antenna and whose domain is already the new 5G/6G standards with their new usable frequency bands.

**Typical users**

Narda STS is targeting the SignalShark EMF at regulatory authorities and telecommunications providers, environmental and occupational safety experts, EMF specialists, and technical service providers who perform reproducible field strength measurements in demanding, high-frequency environments—such as 5G mobile cells, radar, or broadcast transmitters.

The new device is also aimed at measurement technicians who, in the future, will have to take on demanding measurement tasks in both areas, EMF measurements and interference detection, for example, due to the merging of individual departments. All of these users now have access to a single measuring device that does not compromise on technology in either area. A single measuring instrument for all tasks means time and cost savings: only one purchase and only one training session required, only one device to calibrate and maintain. Of course, users only pay for the functions they actually use. The SignalShark EMF can be expanded with new functions at any time via a software option.

If, for example, a network operator needs to prove site approval, they can use the SignalShark EMF to start an EMF-compliant traffic simulation remotely via smartphone. The result is extrapolated live, stored with georeferencing, and output directly as a percentage value of the standard – and the measurement report is ready.

**Using the new SignalShark EMF**

With the launch of the new SignalShark EMF, Narda is merging the previously separate areas of EMF safety and RF test & measurement into a single device. And all this with just a firmware update. This means that anyone who already has a SignalShark can perform basic EMF measurements with a firmware update. For more complex, highly automated measurements such as 4G or 5G decoders, Narda offers numerous additional software options.

Measurement technicians in the field of EMF safety who already use an SRM-3006 and are considering purchasing a new device will enjoy numerous advantages with the SignalShark EMF. Narda customers can continue to use all their SRM antennas, including all cables, with the SignalShark without any problems. In addition, they can measure higher frequencies and benefit from intuitive ease of use and modern functionalities such as the spectrogram or additional storage and documentation options. If they want to go up to 8 GHz, they can purchase the 8 GHz antenna at particularly favorable conditions.

**The advantages**

The list of outstanding advantages of the SignalShark EMF is long. Highlights include the extremely high measurement speed, automatic evaluation of the limit value and its high immunity to interference, continuous calibration, voice

comments, SCPI control, and, last but not least, a well-designed, user-friendly EMF user interface. Together with extremely fast measurements and a high degree of automation, this ensures precise, reliable measurements with minimal risk of error. The SignalShark EMF also offers the option of performing parallel measurements.

**Ease of use**

One of the developers' goals was to keep the operation as intuitive and simple as possible, even though 5G/6G communication signals are becoming increasingly complex and complicated, and a powerful measuring device must be able to do more accordingly. There are many good reasons for this. Not only does this enable experts to fully utilize the comprehensive potential of the SignalShark EMF after a short time, but even laypeople quickly feel confident in using the device in their everyday measurement work and can quickly perform valid measurements in the field on their own. An expert sets up the device once with setups and measurements, and the user can then perform the same measurements with the device. Even laypeople quickly feel confident in using the device in their everyday measurement work and can quickly perform valid measurements in the field on their own. An expert sets up the device once with professional setups and measurement routines. As a result, even less experienced users are then able to operate it safely and without errors. The bottom line is that simple and intuitive handling, e.g., via automated measurement routines, reduces the risk of errors in series measurements or measurement campaigns, which are quite common in the field of EMF safety.

Its high user-friendliness has been achieved by using modern tiles or windows on the display, similar to a Windows interface. These take the user by the hand with clear illustrations, explanatory short texts, and concise instructions, guiding them through the menu. But no matter how easy the operation may be in the end, Narda never leaves its customers alone with a new device. User training courses and seminars on all of its sophisticated instruments are offered on a regular basis.

**Accredited calibration**

Every SignalShark EMF is delivered calibrated. Accredited calibration will follow in early 2026. Calibrated antenna and cable data ensure highly accurate and traceable field strength measurements. Narda also reports the measurement uncertainty, including cable and antenna, which is particularly important. This is mandatory as the official measure of measurement quality for every measurement report that must be legally valid in court. Not to mention the reproducibility, high measurement quality, and reliability of all measurement results.

**Built to be robust for field use**

EMF measurements are usually about finding out whether a certain level at a specific location is within the permitted limit range. Unlike a laboratory analyzer, the SignalShark is specifically designed for outdoor use in harsh environments, is very robust (IP54), and is equipped with extremely high radiation resistance up to 200 V/m. It is also MIL-certified. This seal of approval represents the military's strict testing standards, which specify the environmental conditions that devices must withstand, such as extreme temperatures, humidity, shock, vibration, and dust.

And finally, to address the potential conflict between the extremely high sensitivity required for interference finding or radio monitoring and the ability to withstand very high electromagnetic fields, the SignalShark has a switchable internal attenuator of up to 30 dB. This is just one more fine detail among many that proves that Narda engineers have put all their know-how and extensive industry experience into its development and thought of everything. This makes the SignalShark EMF the perfect companion for measurement technicians and a reliable partner for anyone who demands the highest standards from their measurement equipment and will not tolerate any compromises.

[8,698 characters]

**This text and press photos can also be found at [www.narda-sts.com](http://www.narda-sts.com) under the heading: Company > Press**

**[Image 01]**

**Image 1: SignalShark EMF with isotropic LNB antenna for frequency-selective EMF measurements. Its high user-friendliness has been achieved by using modern tiles and windows on the display, similar to a Windows interface.**

**[Image 02]**

**Image 2: SignalShark EMF—the professional standard for frequency-selective EMF analysis and complete, standard-compliant EMF assessment, including intelligent extrapolation of real 5G traffic signals.**

**[Image 03]**

**Image 3: SignalShark EMF is a precise real-time analyzer for EMF measurements in complex RF environments.**

**Narda** is a leading provider of measurement technology in the fields of EMF safety, RF test & measurement, and EMC. The EMF safety product range includes broadband and frequency-selective measuring instruments, monitors for comprehensive area monitoring, and wearable warning devices for personal safety. The RF Test & Measurement division includes analyzers and devices for measuring and identifying radio sources. The EMC division offers measuring instruments for the electromagnetic compatibility of devices under the PMM brand name. Services include maintenance, calibration—including accredited calibration—and ongoing training programs. The company operates its management system in accordance with ISO 9001:2015 and maintains a calibration laboratory that is accredited according to DIN EN ISO/IEC 17025:2018.

Narda develops and manufactures at its locations in Pfullingen, Germany, and Cisano, Italy, and is represented by its own representative office in Beijing, China. A global network of sales partners guarantees customer proximity.

® Names and logos are registered trademarks of Narda Safety Test Solutions GmbH – trade names are trademarks of their respective owners.

**For further information**:

**Texterei Jungmann**
[Press contact]
Thomas Jungmann
Am Steinberg 33
D-96450 Coburg
Phone.: +49 – 172 6827066
Email: info@texterei-jungmann.de
http://texterei-jungmann.de

**Narda Safety Test Solutions GmbH**
Sandwiesenstr. 7
D-72793 Pfullingen
Tel.: +49 - 7121 / 97 32 - 0
Fax: +49 - 7121 / 97 32 - 790
E-mail: info@narda-sts.com
www.narda-sts.com