Measurement routines

With the SRM-3006 you can combine several measurement setups into routines, which you can run automatically or one at a time manually. The advantages:

- **Gain confidence.** The measurements always run in the same way without any risk of incorrect settings or missing out a reading.
- **Set internal standards for your company** and adhere to them automatically. Whoever does the measurement, results are comparable and can be displayed and formatted identically. Public authorities can simply enter the results in their databases. Operators can be sure that their process instructions are followed.
- **Turn everyone into an expert.** Using the SRM-3006 and prepared measurement routines, even semi-skilled staff can obtain reliable results.

The Selective Radiation Meter SRM-3006 from Narda Safety Test Solutions has been specially developed for environmental and safety measurements in electromagnetic fields. Using isotropic measuring antennas, the instrument covers the entire frequency range from 9 kHz to 6 GHz. It can therefore be used equally well to investigate safety in the near field region of long wave transmitters, make measurements on radio and TV broadcast transmitters, and determine exposure levels caused by the latest generation of mobile telecommunications services.

Configuration

Measurement Routine

Setup Name	Storing Condition	Measurement Time	No. of Runs	Automatic Next Step	Text
GERM_OVERVIEW_SENSITIVE	Time	00:06:00	1	ON	Automatic next step after 8 Minutes
GERM_OVER.BROADCAST_SENSITIVE	No. of Runs	00:08:00	500	OFF	Manual next step.
GERM_FM-RADIO_SENSITIVE	Time	00:06:00	1	OFF	FM Radio varies local!
GERM_MOBILE_OVERVIEW_SENSITIVE	No. of Runs	00:08:00	268	OFF	Wait for 6min AVG
GERM_MOBILE_GSM-900_SENSITIVE	User	00:08:00	1	OFF	Threshold to identify the BCCHs
GERM_MOBILE_GSM-1800_SENSITIVE	User	00:08:00	1	OFF	% per operator on total field
GERM_MOBILE_UMTS_SENSITIVE	Time	00:06:00	1	OFF	% per operator on total field

Figure 1: Example of a measurement routine generated on a PC using the SRM-3006 Tools software. Either the measurement time or the number of runs can be specified. You can also specify whether the instrument proceeds to the next step automatically or not until a button is pressed.

The procedure for putting measurement routines together is as follows:

- **Generate setups** on the SRM-3006 basic unit.
- Use the SRM-3006 Tools PC software to **download them to a PC.**
- Under "Measurement routines", **combine the setups** into a measurement routine.
- **Upload the routine** to the SRM-3006.

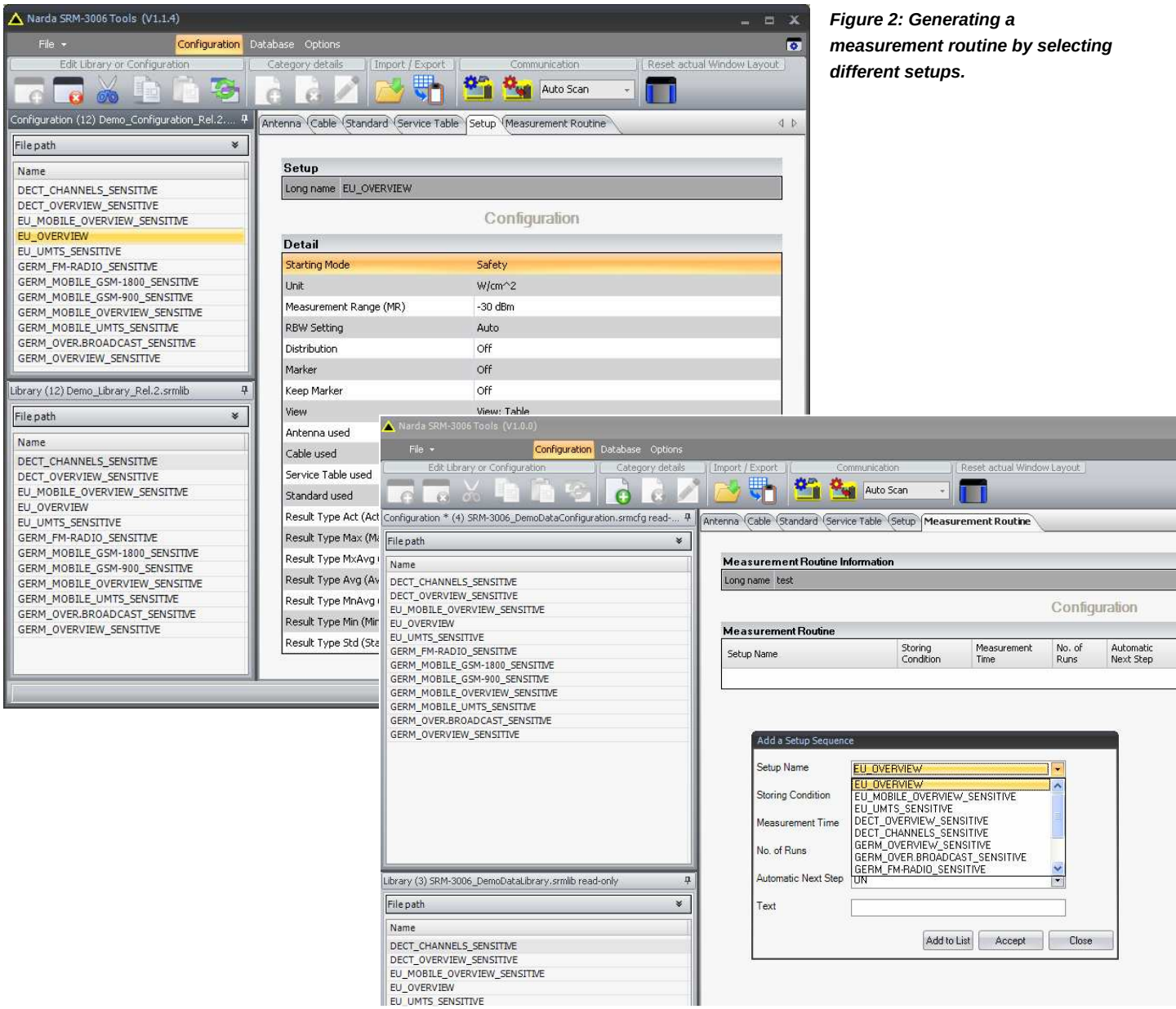

Figure 2: Generating a measurement routine by selecting different setups.

Technical Notes from Narda Safety Test Solutions

These notes report, in no particular order, on the possible applications of Narda measuring equipment. Typical applications for the Selective Radiation Meter SRM-3006 are safety measurements on

- **Radio and TV transmitters (AM, FM, DAB, DVB-T)**
- **Mobile phone stations (GSM-900, GSM-1800, UMTS, CDMA, W-CDMA, LTE)**
- **Wireless communications networks (WiFi, WLAN, WiMAX, DECT, ZigBee, Bluetooth)**
- **Radio controls using ISM frequencies**

The Technical Notes are found on www.narda-sts.de under Literature ▶ High Frequency

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