DATE: 09/19/2025

TITLE: **SGX1000 RF Signal Generator Letter of Volatility QSP-09-011 REV. NEW**

The Maury model SGX10XX RF Signal Generator contains the following memory devices:

1. RAM LPDDR4, 2, 4, or 8 GB
   Volatility: Volatile
   Contents: Operating system and application data
   Read/Write Access: No documented read/write methods are available to SGX10XX users.
   All data is erased by unplugging the instrument for 60 seconds.

2. EEPROM, 512 KB
   Volatility: Non-volatile
   Contents: Bootloader (executable software)
   Read / Write Access: No documented read / write methods are available to SGX10XX users.

3. EEPROM, 128 KB
   Volatility: Non-volatile
   Contents: Product serial number and feature licenses
   Read / Write Access: No documented read / write methods are available to SGX10XX users.

4. Internal Micro-SD card, 32 GB (units without SECURE option)
   Volatility: Non-volatile
   Contents: Operating system, file structure, and instrument data/settings
   Read / Write Access: Consistent with other Micro-SD cards readily available in the market.
   Santization by opening instrument case and physically removing/destroying Micro-SD card.

   NOTE: The internal Micro-SD card can be optionally replaced with a removable external USB drive with the PMX40-SECURE option for use in secure environments. *

5. Microcontroller, 128KB RAM (inside internal synthesizer module)
   (two for the SGX1018)
   Volatility: Volatile
   Contents: Device processor and serial communication data
   Read/Write Access: No documented read / write methods are available to SGX10XX users.
   All data is erased by unplugging the instrument for 60 seconds.

6. Microcontroller, 512KB flash memory (inside internal synthesizer module)
   (two for the SGX1018)
   Volatility: Non-volatile
   Contents: Application program
   Read/Write Access: No documented read / write methods are available to SGX10XX users.

7. Microcontroller, 12KB flash memory (inside internal synthesizer module)
   (two for the SGX1018)
   Volatility: Non-volatile
   Contents: Bootloader (executable software)
   Read/Write Access: No documented read / write methods are available to SGX10XX users.

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8. EEPROM, 1Mbit (inside internal synthesizer module)
(two for the SGX1018)
Volatility: Non-volatile
Contents: Firmware version, instrument serial number, calibration factors. Instrument setting if internal synthesizer module (HSM) is used alone. However, when used as part of the SGX1000, the SGX1000 does not store or recall instrument settings to/from this location.
Read / Write Access: No documented read / write methods are available to SGX10XX users.

9. External USB drive 32 GB (units with SECURE option)*
Volatility: Non-volatile
Contents: Operating system, file structure, and instrument data/settings
Read / Write Access: Consistent with other USB drives readily available in the market.

* The SGX10XX secure operation options can be obtained at the time of initial purchase (SGX1K-SECURE) or afterwards from the Maury Service Department (SGX1K-2SECOP) at which time the instrument must be returned to the factory.

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