NSG 4070 APPLICATION NOTE
RADIATED IMMUNITY WITH GTEM 750

Test requirements

- Standards applied: IEC 61000-4-20
- Frequency range: (100 kHz) 30 to 1000 MHz
- Level 1: 1 V/m
- Level 2: 3 V/m
- Level 3: 10 V/m
- Modulation: AM, 1 kHz, 80%

Equipment

- Signal generator: NSG 4070-0
- Power meter: NSG 4070-0
- Directional coupler: DCP 0100A
- Power amplifier: CBA 9479
  (100 kHz - 1 GHz 18/15 Watts)
- Software: C3I or GTEM3I
- Lowest forward power: 15 dBm*
- Lowest field strength: 1 V/m at 600 mm septum height*
- Highest forward power: 41 dBm*
- Highest field strength: approx. 18 V/m at 600 mm septum height*
- Field probe: e.g. HI 6005

*Note: Values caused by measuring range of the power meter, factor of the directional coupler, gain of the power amplifier and AM with 80%

Test set-up

[Diagram of test set-up with equipment connections and labels for NSG 4070 RF output, Power meter, Power amplifier input, Directional coupler, GTEM cell, and PC with control software]