

Satellite Electromagnetic Compatibility Test Lab (EMC)



Services Provided:

Performing the electromagnetic compatibility tests for equipment, subsystem and whole satellite system according to standard as follows:

- Radiation Emission test (RE)
- Radiation Susceptibility test (RS)
- Conduction Emission test (CE)
- Conduction Susceptibility test (CS)
- Electrostatic discharge Test (ESD)

Facilities Available:

- Semi-anechoic chamber Nanjing Lopu Co Ltd & BISEE
- EMI Test Receiver 9kHz to 26.5GHz (Rohde & Schwarz ESR 26)
- Oscilloscope: Sample rate: 5Gsample/s bandwidth 200MHz to 2GHz (R&S RTE1202)
- Different Antenna types from (10kHz-18GHz) (SCHWARZBECK / Rohde & Schwarz)
- Rohde & Schwarz, Power amplifiers (10kHz-18GHz)
- Different types of signal generators (Solar / Rohde & Schwarz / Keysight)
- (Solar) Injection probe, current probes and (WeinSchel) attenuators
- ESD gun (3Ctest ESD 30T)
- EMC test management software (Rohde & Schwarz EMC 32)
- Laboratory test accessories

Samples from our Projects / Products:

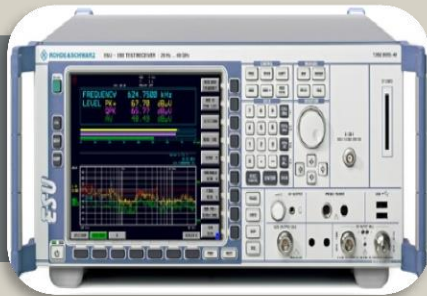
- Testing of MisrSat-2 Satellite



Part of our Facilities / Services:

Oscilloscope (R&S RTE1202).

2 channel oscilloscope with 2GHz Bandwidth, 5GSa/s sample rate, up to 16Bit A/D converter, 200Mpts memory depth and a 26.4cm touch display (1024x768 pixel). Upgradable to MSO with a 16 channel logic analyzer and power analyzer.

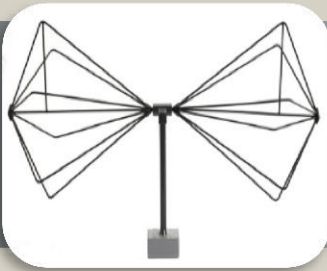


EMI test receiver (Rohde & Schwarz ESR 26).

The R&S®ESR is an EMI test receiver for the frequency range from 10Hz to 26.5GHz which complies with the CISPR 16-1-1 standard. It measures electromagnetic disturbances with the conventional stepped frequency scan or – at an extremely high speed – with an FFT-based time domain scan.

R&S®SMC100A signal generator

The R&S®SMC100A offers outstanding signal quality. It covers the frequency range from 9kHz to 1.1GHz or 3.2GHz. Output power type is > +17dBm. All important functions (AM, FM, φM, PM) are already integrated in the instrument. This makes the R&S®SMC100A signal generator a flexible and versatile instrument.



R&S®HK116E biconical antenna

The R&S®HK116E is a biconical dipole antenna for linearly polarized waves. The antenna features a wide frequency range, a radiation pattern virtually independent of frequency and low weight. Each R&S®HK116E is individually calibrated in line with ANSI C63.5 and SAE ARP 958 and is particularly suitable for radiated emission measurements in EMC test rooms.

Electrostatic discharge simulator

The ESD30T is a state of the art electrostatic discharge simulator available in 30kV. It is the most ergonomic ESD gun without an additional base control unit as per IEC/EN 61000-4-2.



And many others... Contact us to know more about our Services.