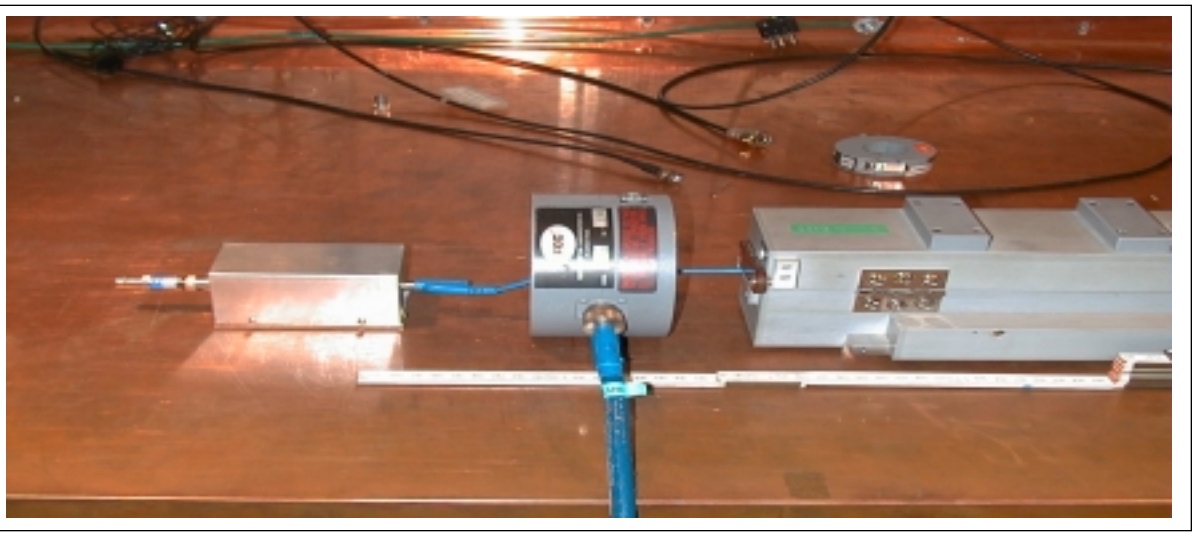
Information Material for FCC

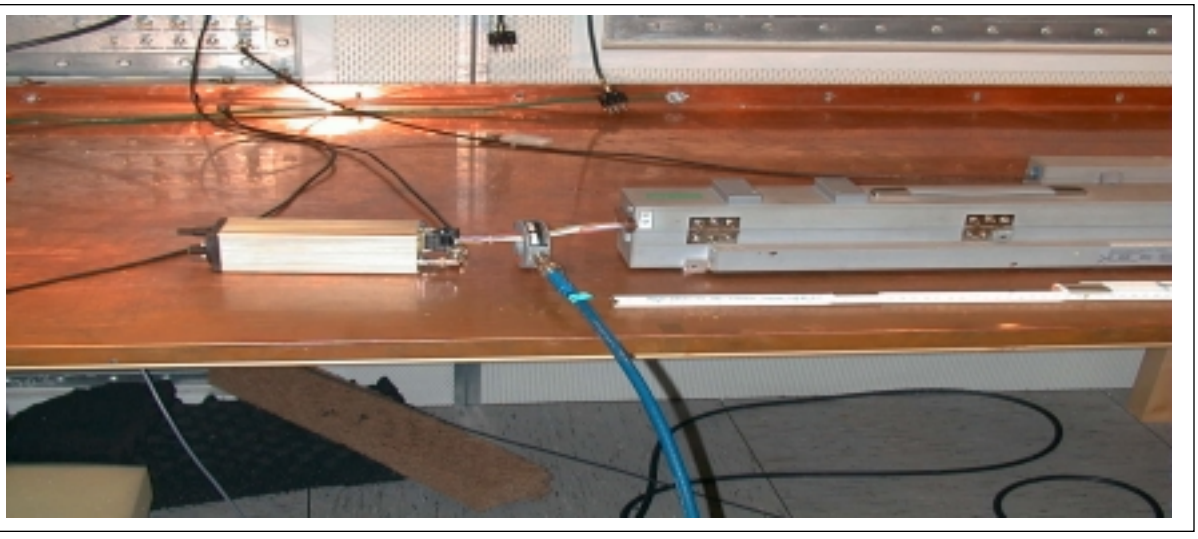
Extracted from Airborne Certification Test Setup, which was also used similarly for some FCC measurements.

CS Conducted Suszeptibility Test Equipment and Test Setup

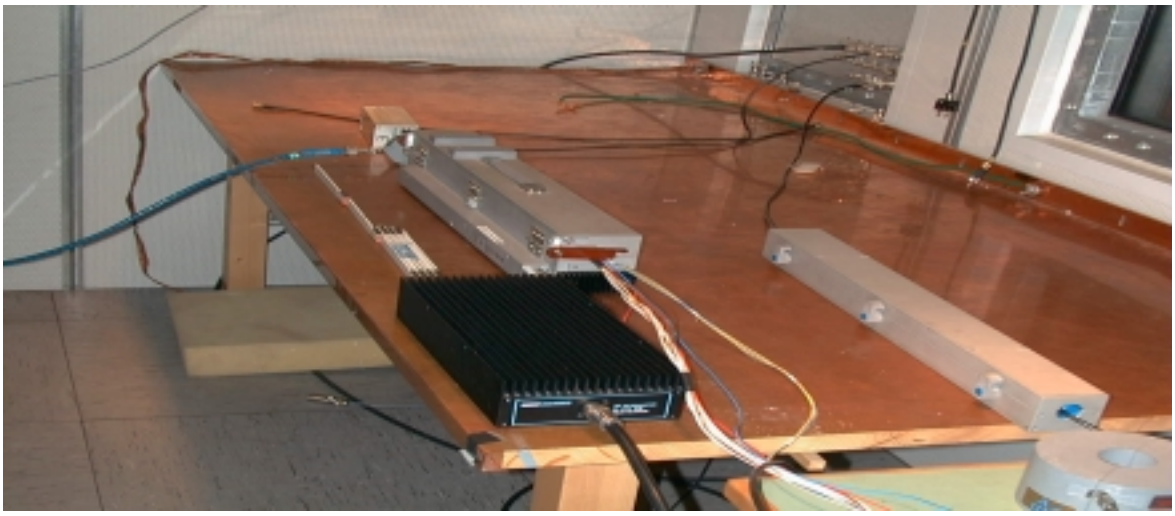
LISN	(SPITZENBERGER & SPIESS B 5976)
Injection Probe	(LÜTHI EM 101)
Monitor Probe 10 kHz –200 MHz	(FISCHER CUSTOM Model F-120-4)
Monitor Probe 200 MHz –400 MHz	(FISCHER CUSTOM Model F-62)
Signal generator / SINAD Meter	(ROHDE & SCHWARZ CMT 55)
Power Amplifier	(TRW CA 4800 + ROCHESTER 411A)
Spectrum Analyzer #1 +2	(HP 8565E)



*Monitor Probe Calibration 10 kHz –200 MHz (FISCHER CUSTOM Communications Model F-120-4) using a 50-Ohm Load. This results in a Category **T** Voltage of 1.125 V for 7.5 mA Test Current, and for 200 MHz – 400 MHz (FISCHER CUSTOM Communications Model F-62)*



FSG 2T Test Setup for 200 MHz – 400 MHz (FISCHER CUSTOM Communications Model F-62)



CS Test and Calibration Setup

RS Test Set-Up / Test Arrangement (EUROCAE ED-14D / RTCA DO-160D § 20.5c)

Set up of the EUT, wiring, associated interface circuitry and test equipment as per Figure 20-2.

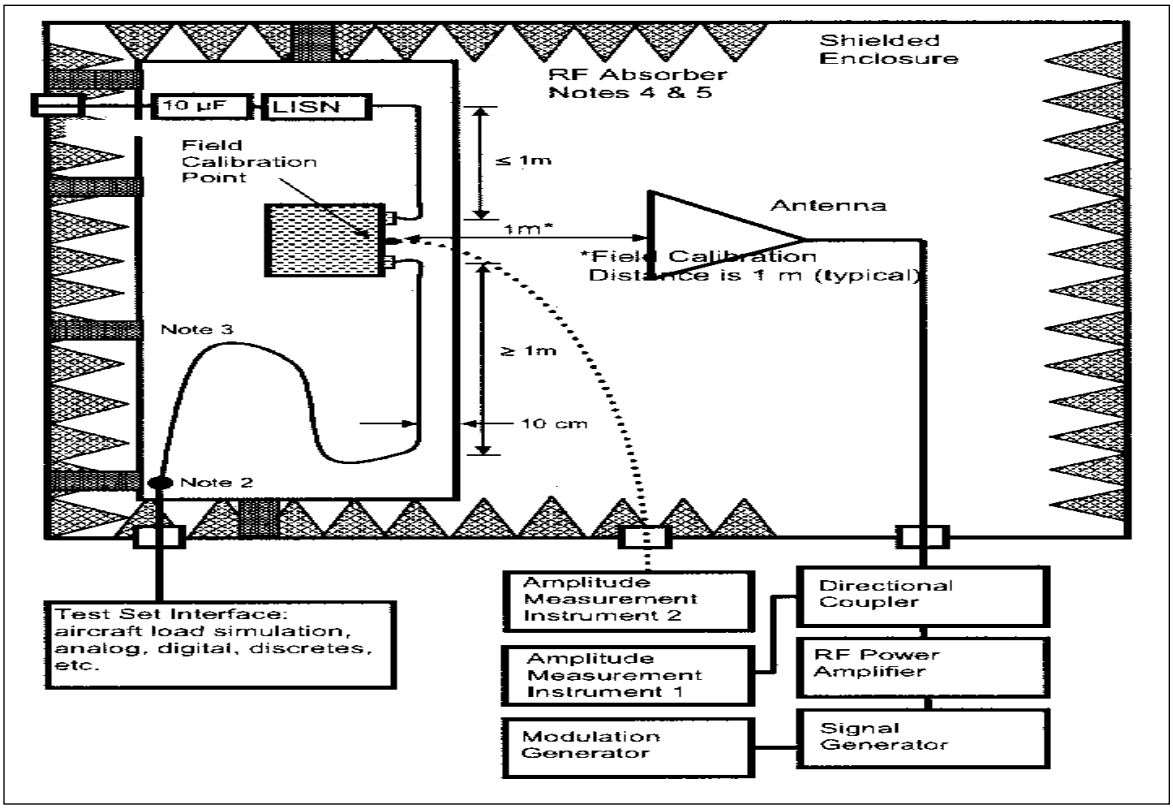


Figure 20-2 ***RS*** *Radiated Susceptibility Test Setup 2 – 8 GHz*

NOTE 1: See Section 20.3 for EUT general requirements.
NOTE 2: End of exposed cable. Unshielded cable may be shielded from here to the wall.
NOTE 3: Bonding Strap.
NOTE 4: RF absorber shall be placed above, behind, and on both sides of the test boundary, from ceiling to ground plane.

NOTE 5: RF absorber shall be placed behind the test antenna, from ceiling to floor. The distance between the absorber and the antenna shall be 30 cm.

RS Radiated Suszeptibility Test Equipment (CETECOM ICT Services)

LISN Line Impedance Stabilization Net	(SPITZENBERGER & SPIESS B5976)
Signal Generator 100 kHz - 2 000 MHz	(ROHDE & SCHWARZ SMG)
RF PA Amplifier 10 kHz - 200 MHz	(AMPLIFIER RESEARCH 250L)
RF PA Amplifier 25 MHz - 2000 MHz	(AMPLIFIER RESEARCH 100WM7)
Signal Generator 2 GHz - 8 GHz	(ROHDE & SCHWARZ CMD 65)
RF PA Amplifier 2 GHz - 20 GHz	(HEWLETT PACKARD 8349B)
UHF Log. Per. Antenna 80 MHz-2000 MHz	(ROHDE & SCHWARZ HL923A1)
UHF Wideband Horn Antenna 1 - 26 GHz	(EMCO 3115)
Field Strength Meter	(PMM 8053)
Field Strength Probe 0.8-800 V/m	(EP408 1 – 40 GHz)
Radio Tester	(ROHDE & SCHWARZ CMT 84)
Other test equipment	see § 3.2.6 Carrier Noise level

***RS** Radiated Susceptibility, Test Setup 2 – 8 GHz, most susceptible positioning*

Radio tester CMT 84