NSG 4070B APPLICATION FOR ISO 11452-4:2011

Test parameter

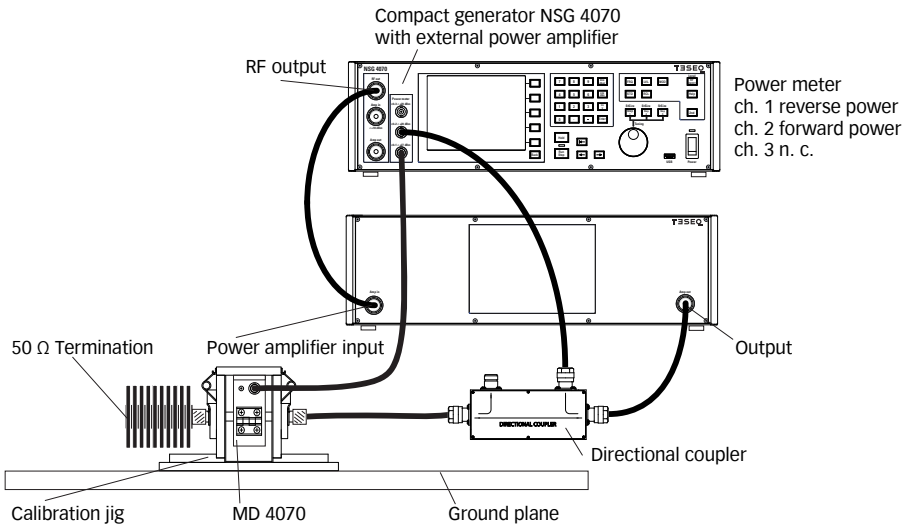
Standard:	ISO 11452-4:2011
Frequency range:	1 MHz to 400 MHz
Level 1 in mA:	20 to 60 to 30
Level 2 in mA:	33 to 100 to 50
Level 3 in mA:	50 to 150 to 75
Level 4 in mA:	66 to 200 to 100
Modulation:	e.g. CW, 1 kHz AM 80% (Peak conservation)
Test method:	Substitution method with optional monitoring probe, Closed loop method with power limitation
Monitoring probe:	only for information (substitutions method)

Equipment

Signal generation:	NSG 4070B-0
Modulator:	included in NSG 4070B-0
Power meter:	3x included in NSG 4070B-0
Power amplifier:	CBA 400M-110
Directional coupler:	DCP 0100A
Current injection probe:	CIP 9136A
Monitoring probe:	MD 4070
Calibration jig:	PCJ 9201B
Termination:	50 Ω 10 W
Attenuation:	20 dB 10 W
Software:	incl. in NSG 4070 or optional C5I or WIN 6000

WARNING: The power meter inputs are very sensitive. It is the user's responsibility to ensure that the selected test levels does not damage the equipment. Any hardware/setup changes should be calculated before starting the test.

Calibration set-up for monitoring probe



Remarks:
The monitoring probe MD 4070 needs to be calibrated in the way of its use (active, passive or with switching at a specific frequency from active to passive).

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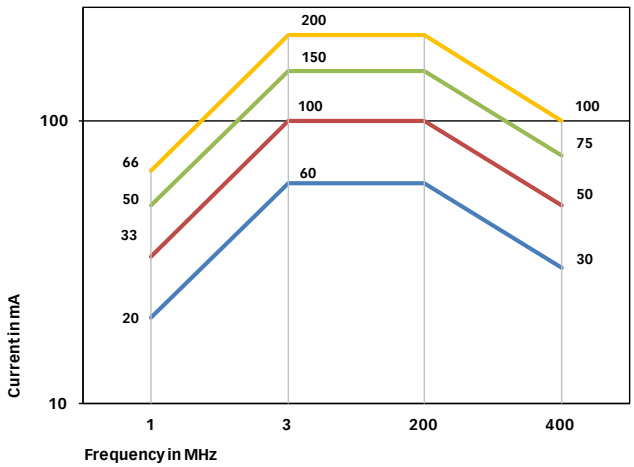
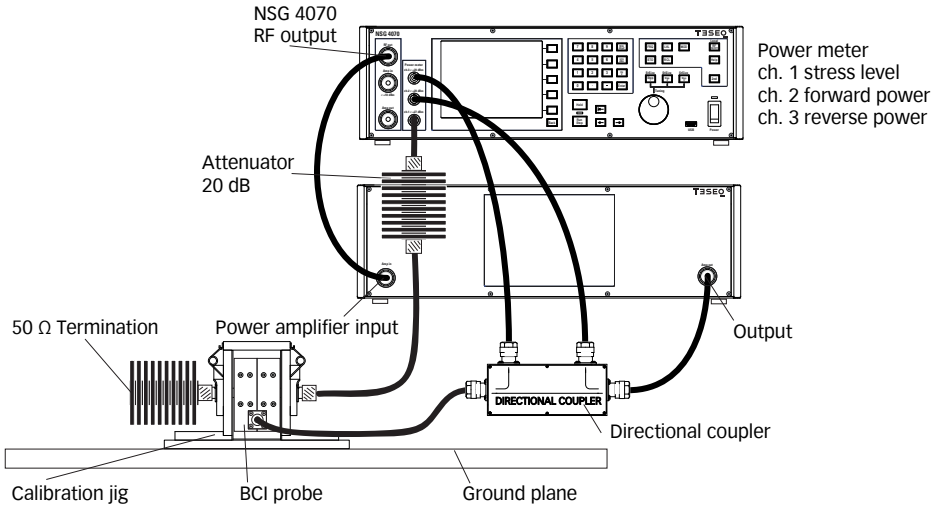


Test level — for ISO 11452-4:2011 Level 1
Test level — for ISO 11452-4:2011 Level 2
Test level — for ISO 11452-4:2011 Level 3
Test level — for ISO 11452-4:2011 Level 4

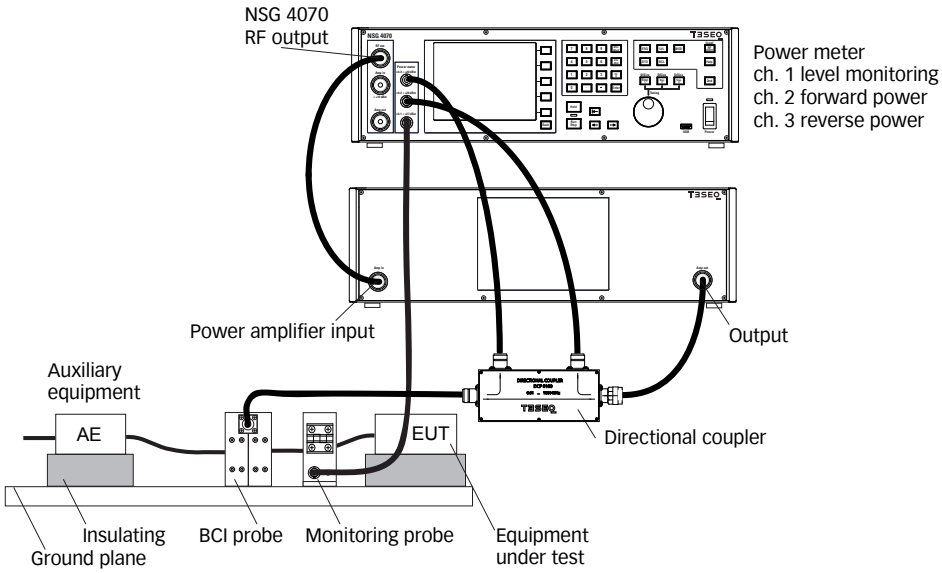
Calibration set-up for all levels



Attenuator: 20 dB, 10 W
Termination: 50 Ω 10 W

Remarks:
Power meter channel 1 needs to be protected with a 20 dB attenuator.

Test set-up with monitoring probe



Use of MD 4070 in the passive mode.

Caution:
The use of the MD 4070 in the active mode during tests with stress levels above 20 mA could damage power meter channel 1 of NSG 4070.

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