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Deutschen Kalibrierdienst



Deutsche
Akkreditierungsstelle
D-K-15070-01-01

Kalibrierschein
Calibration certificate

Kalibrierzeichen
Calibration mark

MUSTER

D-K-
15070-01-01

2017-05

Gegenstand
Object Network Analyzer

Hersteller
Manufacturer AGILENT DEUTSCHLAND GMBH

Typ
Type E5061A

Fabrikat/Serien-Nr.
Serial no. 12345

Auftraggeber
Customer Mustermann GmbH
DE-12345 Musterhausen

Auftragsnummer
Order no. 654321

Dieser Kalibrierschein dokumentiert die Rückführung auf nationale Normale zur Darstellung der Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI). Die DAkkS ist Unterzeichner der multilateralen Übereinkommen der European co-operation for Accreditation (EA) und der International Laboratory Accreditation Cooperation (ILAC) zur gegenseitigen Anerkennung der Kalibrierscheine. Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

This calibration certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI). The DAkkS is signatory to the multilateral agreements of the European co-operation for Accreditation (EA) and of the International Laboratory Accreditation Cooperation (ILAC) for the mutual recognition of calibration certificates. The user is obliged to have the object recalibrated at appropriate intervals.

Anzahl der Seiten des Kalibrierscheines - 15 -
Number of pages of the certificate

Datum der Kalibrierung
Date of calibration 04.05.2017

Dieser Kalibrierschein darf nur vollständig und unverändert weiterverbreitet werden. Auszüge oder Änderungen bedürfen der Genehmigung sowohl der Deutschen Akkreditierungsstelle als auch des ausstellenden Kalibrierlaboratoriums. Kalibrierscheine ohne Unterschrift haben keine Gültigkeit.

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V 5.0 / DE

Datum
Date

Leiter des Kalibrierlaboratoriums
Head of the calibration laboratory

Bearbeiter
Person in charge

01.08.2017

Max Mustermann

Max Mustermann

Kalibriergegenstand (KG) Calibration object

Equipment Nr. Equipment no. Network Analyzer
12345678

Inventar Nr. Inventory no. 123456

Prüfmittel Nr. Test equipment no. 1234567

Kalibrierverfahren Calibration procedure

Die Kalibrierung erfolgt nach Herstelleranweisung durch Vergleich der Anzeige des Kalibriergegenstandes mit den durch die Kalibriergeräte/Normale dargestellten Messwerten.
Bezug ist die Realisierung der Einheiten in den nationalen metrologischen Instituten (NMI).

The calibration is performed according to the manufacturer's procedure by direct comparison of the measured values of the calibration article with the reference-, or working-standard. The measurement is traceable to the national metrological institutes (NMI).

Verwendete Kalibrierprozedur Used calibration procedure Agilent:E5061A(150):kiz:HF-MP2:NWA:IEEE / Rev.2.00

Umgebungsbedingungen Ambient conditions

Temperatur Temperature (23 ± 1) °C
Relative Luftfeuchte Relative humidity (40 ± 20) %

Messeinrichtungen Measuring equipment

Referenz Reference	Rückführung Traceability	Rekal. Next cal.	Zertifikats Nr. Certificate-no.	Eq.-Nr. EQ-no.
Frequency Standard 910R	GPS locked	---	Support Device	10640562
Step Attenuator 8494H	15070-01-01	2017-10	E46778	10996969
Step Attenuator 8496H	15070-01-01	2017-10	E37520	10996970
Type N Calibration Kit 85032F	15070-01-01	2018-02	E44904	11103245
Synthesized Sweeper 83650L	GPS locked	---	Support device	11105539
Frequenzzähler 53152A	GPS locked	---	Support device	11105563
Power Meter E4417A	15070-01-01	2017-09	E40959	11287008
Power Sensor E9304A	15070-01-01	2017-08	E40071	11373066

Referenzzertifikate sind auf www.primasonline.com abrufbar Reference certificates are available at www.primasonline.com

Bereich Range	Referenzwert (Normal) Reference value	Messbedingung Measuring condition	Angezeigter Wert KG Indicated value UUT	Zulässige Abweichung Allowed deviation	Ausnutzung der zul. Abw. in % Utilization of Allowed deviation %	Messunsicher- heit (k=2) Measuring uncertainty (k=2)
Device Identification						
Manufacturer:----->Agilent Technologies						
Model:----->E5061A						
Softwarerevision:----->A.03.00						
Serialnummer----->MY44101852						
Frequency Accuracy Test						
	1500000000.0 Hz		1499999981 Hz	±7500Hz	0% pass	15 Hz
	50000000.0 Hz		49999999 Hz	±250Hz	0% pass	764 mHz
	300000.0 Hz		300000 Hz	±1.5Hz	0% pass	577 mHz
RF Level Output Level Accuracy and Flatness						
Port 1 Level Accuracy: Level = 0 dBm @ 50 MHz						
nominal = 0 dB						
	0.000 dB	50 MHz	0.10 dB	±0.8dB	--- pass	0.10 dB
Port 1 Flatness: Level = 0 dBm @ 9 kHz bis 1.5 GHz						
nominal = 0 dB						
	0.000 dB		0.15 dB	±1dB	--- pass	0.20 dB
Port 2 Level Accuracy: Level = 0 dBm @ 50 MHz						
nominal = 0 dBm						
	0.000 dB	50 MHz	0.11 dB	±0.8dB	--- pass	0.100 dB
Port 2 Flatness: Level = 0 dBm @ 9 kHz bis 1.5 GHz						
nominal = 0 dB						
	0.000 dB		0.16 dB	±1dB	--- pass	0.20 dB
RF Level Output Level Linearity Test						
Port 1						
nominal = 10 dB						
	10.000 dB	300 kHz	10.17 dB	±0.75dB	--- pass	0.099 dB
nominal = 7.5 dB						
	7.500 dB	300 kHz	7.67 dB	±0.75dB	--- pass	0.099 dB
nominal = 5 dB						
	5.000 dB	300 kHz	5.17 dB	±0.75dB	--- pass	0.098 dB
nominal = 2.5 dB						
	2.500 dB	300 kHz	2.67 dB	±0.75dB	--- pass	0.099 dB
nominal = 0 dB						
	0.000 dB	300 kHz	0.17 dB	±0.75dB	--- pass	0.099 dB

Bereich Range	Referenzwert (Normal) Reference value	Messbedingung Measuring condition	Angezeigter Wert KG Indicated value UUT	Zulässige Abweichung Allowed deviation	Ausnutzung der zul. Abw. in % Utilization of Allowed deviation %	Messunsicher- heit ($k=2$) Measuring uncertainty ($k=2$)
nominal = -2.5 dB	-2.500 dB	300 kHz	-2.36 dB	±0.75dB	--- pass	0.099 dB
nominal = -5 dB	-5.000 dB	300 kHz	-4.84 dB	±0.75dB	--- pass	0.099 dB
nominal = 10 dB	10.000 dB	50 MHz	10.19 dB	±0.75dB	--- pass	0.098 dB
nominal = 7.5 dB	7.500 dB	50 MHz	7.65 dB	±0.75dB	--- pass	0.099 dB
nominal = 5 dB	5.000 dB	50 MHz	5.13 dB	±0.75dB	--- pass	0.100 dB
nominal = 2.5 dB	2.500 dB	50 MHz	2.62 dB	±0.75dB	--- pass	0.100 dB
nominal = 0 dB	0.000 dB	50 MHz	0.12 dB	±0.75dB	--- pass	0.100 dB
nominal = -2.5 dB	-2.500 dB	50 MHz	-2.40 dB	±0.75dB	--- pass	0.10 dB
nominal = -5 dB	-5.000 dB	50 MHz	-4.90 dB	±0.75dB	--- pass	0.10 dB
nominal = 10 dB	10.000 dB	500 MHz	10.13 dB	±0.75dB	--- pass	0.100 dB
nominal = 7.5 dB	7.500 dB	500 MHz	7.59 dB	±0.75dB	--- pass	0.10 dB
nominal = 5 dB	5.000 dB	500 MHz	5.08 dB	±0.75dB	--- pass	0.10 dB
nominal = 2.5 dB	2.500 dB	500 MHz	2.56 dB	±0.75dB	--- pass	0.10 dB
nominal = 0 dB	0.000 dB	500 MHz	0.04 dB	±0.75dB	--- pass	0.10 dB
nominal = -2.5 dB	-2.500 dB	500 MHz	-2.46 dB	±0.75dB	--- pass	0.10 dB
nominal = -5 dB	-5.000 dB	500 MHz	-4.95 dB	±0.75dB	--- pass	0.10 dB
nominal = 10 dB	10.000 dB	1.4 GHz	10.12 dB	±0.75dB	--- pass	0.100 dB
nominal = 7.5 dB	7.500 dB	1.4 GHz	7.60 dB	±0.75dB	--- pass	0.10 dB
nominal = 5 dB	5.000 dB	1.4 GHz	5.09 dB	±0.75dB	--- pass	0.10 dB
nominal = 2.5 dB	2.500 dB	1.4 GHz	2.58 dB	±0.75dB	--- pass	0.10 dB
nominal = 0 dB	0.000 dB	1.5 GHz	0.08 dB	±0.75dB	--- pass	0.10 dB
nominal = -2.5 dB	-2.500 dB	1.5 GHz	-2.43 dB	±0.75dB	--- pass	0.10 dB
nominal = -5 dB	-5.000 dB	1.5 GHz	-4.92 dB	±0.75dB	--- pass	0.10 dB

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Port 2						
nominal = 10 dB	10.000 dB	300 kHz	10.23 dB	±0.75dB	--- pass	0.097 dB
nominal = 7.5 dB	7.500 dB	300 kHz	7.72 dB	±0.75dB	--- pass	0.097 dB
nominal = 5 dB	5.000 dB	300 kHz	5.22 dB	±0.75dB	--- pass	0.097 dB
nominal = 2.5 dB	2.500 dB	300 kHz	2.71dB	±0.75dB	--- pass	0.098 dB
nominal = 0 dB	0.000 dB	300 kHz	0.20 dB	±0.75dB	--- pass	0.098 dB
nominal = -2.5 dB	-2.500 dB	300 kHz	-2.33 dB	±0.75dB	--- pass	0.099 dB
nominal = -5 dB	-5.000 dB	300 kHz	-4.84 dB	±0.75dB	--- pass	0.099 dB
nominal = 10 dB	10.000 dB	50 MHz	10.20 dB	±0.75dB	--- pass	0.098 dB
nominal = 7.5 dB	7.500 dB	50 MHz	7.66 dB	±0.75dB	--- pass	0.099 dB
nominal = 5 dB	5.000 dB	50 MHz	5.15 dB	±0.75dB	--- pass	0.099 dB
nominal = 2.5 dB	2.500 dB	50 MHz	2.63 dB	±0.75dB	--- pass	0.099 dB
nominal = 0 dB	0.000 dB	50 MHz	0.13 dB	±0.75dB	--- pass	0.100 dB
nominal = -2.5 dB	-2.500 dB	50 MHz	-2.40 dB	±0.75dB	--- pass	0.10 dB
nominal = -5 dB	-5.000 dB	50 MHz	-4.89 dB	±0.75dB	--- pass	0.10 dB
nominal = 10 dB	10.000 dB	500 MHz	10.14 dB	±0.75dB	--- pass	0.099 dB
nominal = 7.5 dB	7.500 dB	500 MHz	7.59 dB	±0.75dB	--- pass	0.10 dB
nominal = 5 dB	5.000 dB	500 MHz	5.07 dB	±0.75dB	--- pass	0.10 dB
nominal = 2.5 dB	2.500 dB	500 MHz	2.55 dB	±0.75dB	--- pass	0.10 dB
nominal = 0 dB	0.000 dB	500 MHz	0.03 dB	±0.75dB	--- pass	0.10 dB
nominal = -2.5 dB	-2.500 dB	500 MHz	-2.49 dB	±0.75dB	--- pass	0.10 dB
nominal = -5 dB	-5.000 dB	500 MHz	-5.00 dB	±0.75dB	--- pass	0.10 dB
nominal = 10 dB						

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nominal = 7.5 dB	10.000 dB	1.5 GHz	10.12 dB	±0.75dB	--- pass	0.100 dB
nominal = 5 dB	7.500 dB	1.5 GHz	7.60 dB	±0.75dB	--- pass	0.10 dB
nominal = 2.5 dB	5.000 dB	1.5 GHz	5.09 dB	±0.75dB	--- pass	0.10 dB
nominal = 0 dB	2.500 dB	1.5 GHz	2.58 dB	±0.75dB	--- pass	0.10 dB
nominal = -2.5 dB	0.000 dB	1.5 GHz	0.07 dB	±0.75dB	--- pass	0.10 dB
nominal = -5 dB	-2.500 dB	1.5 GHz	-2.43 dB	±0.75dB	--- pass	0.10 dB
	-5.000 dB	1.5 GHz	-4.95 dB	±0.75dB	--- pass	0.10 dB
Trace Noise Test						
Trace Noise S21,300kHz - 1MHz TOL = <0.008 dB, U = N/A						
Port 1 Trace Noise = 0.0012 dB					pass	
Trace Noise S21,1MHz - 100MHz TOL = <0.005 dB, U = N/A						
Port 1 Trace Noise = 0.0038 dB					pass	
Trace Noise S21,100MHz - 1.5GHz TOL =<0.005 dB,U = N/A						
Port 1 Trace Noise = 0.0034 dB					pass	
Trace Noise S12,300kHz - 1MHz TOL = <0.008 dB, U = N/A						
Port 2 Trace Noise = 0.0035 dB					pass	
Trace Noise S12,1MHz - 100MHz TOL = <0.005 dB, U = N/A						
Port 2 Trace Noise = 0.0021 dB					pass	
Trace Noise S12,100MHz - 1.5GHz TOL =<0.005 dB,U = N/A						
Port 2 Trace Noise = 0.0048 dB					pass	
Crosstalk Test						
Port 1-->2						
Crosstalk 1-2, 300kHz - 100MHz TOL = <-110 dB, U = N/A						
Port 1-2 Crosstalk = -119.78 dB					pass	
Crosstalk 1-2, 100MHz - 1.5GHz TOL = <-110 dB, U = N/A						
Port 1-2 Crosstalk = -118.55 dB					pass	

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Port 2-->1						
Crosstalk 2-1, 300kHz - 100MHz TOL = <-110 dB, U = N/A						
Port 2-1 Crosstalk = -112.52 dB pass						
Crosstalk 2-1, 100MHz - 1.5GHz TOL = <-110 dB, U = N/A						
Port 2-1 Crosstalk = -114.81 dB pass						
<hr/>						
Dynamic Accuracy Test						
Reference Port 1 Power: -10 dBm @ 50 MHz = 0.00 dB						
Port 1 Power = -20 dBm						
	-10.0450 dB	50 MHz	-10.042 dB	±0.073dB	--- pass	0.040 dB
Port 1 Power = -30 dBm						
	-19.9390 dB	50 MHz	-19.932 dB	±0.087dB	--- pass	0.040 dB
Port 1 Power = -40 dBm						
	-29.9850 dB	50 MHz	-29.979 dB	±0.103dB	--- pass	0.060 dB
Port 1 Power = -50 dBm						
	-39.7020 dB	50 MHz	-39.660 dB	±0.121dB	--- pass	0.060 dB
Port 1 Power = -60 dBm						
	-49.7690 dB	50 MHz	-49.707 dB	±0.15dB	--- pass	0.060 dB
Port 1 Power = -70 dBm						
	-59.5730 dB	50 MHz	-59.607 dB	±0.211dB	--- pass	0.060 dB
Port 1 Power = -80 dBm						
	-69.7190 dB	50 MHz	-69.641 dB	±0.371dB	--- pass	0.12 dB
Port 1 Power = -90 dBm						
	-79.2890 dB	50 MHz	-79.288 dB	±0.841dB	--- pass	0.40 dB
<hr/>						
Reference Port 2 Power: -10 dBm @ 50 MHz = 0.00 dB						
Port 2 Power = -20 dBm						
	-10.0500 dB	50 MHz	-10.042 dB	±0.073dB	--- pass	0.040 dB
Port 2 Power = -30 dBm						
	-19.9350 dB	50 MHz	-19.932 dB	±0.087dB	--- pass	0.040 dB

Bereich Range	Referenzwert (Normal) Reference value	Messbedingung Measuring condition	Angezeigter Wert KG Indicated value UUT	Zulässige Abweichung Allowed deviation	Ausnutzung der zul. Abw. in % Utilization of Allowed deviation %	Messunsicher- heit ($k=2$) Measuring uncertainty ($k=2$)
Port 2 Power = -40 dBm	-29.9880 dB	50 MHz	-29.979 dB	±0.103dB	--- pass	0.060 dB
Port 2 Power = -50 dBm	-39.6570 dB	50 MHz	-39.660 dB	±0.121dB	--- pass	0.060 dB
Port 2 Power = -60 dBm	-49.6600 dB	50 MHz	-49.707 dB	±0.15dB	--- pass	0.060 dB
Port 2 Power = -70 dBm	-59.5710 dB	50 MHz	-59.607 dB	±0.211dB	--- pass	0.060 dB
Port 2 Power = -80 dBm	-69.6690 dB	50 MHz	-69.641 dB	±0.371dB	--- pass	0.12 dB
Port 2 Power = -90 dBm	-78.7800 dB	50 MHz	-79.288 dB	±0.841dB	--- n/a	0.40 dB
Uncorrected System Performance						
Directivity, Port 1						
	25.00 dB	300 kHz	58.8 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.06 GHz	64.0 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.12 GHz	64.3 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.18 GHz	62.8 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.24 GHz	61.5 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.29 GHz	63.6 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.35 GHz	61.4 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.41 GHz	62.5 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.47 GHz	62.8 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.53 GHz	61.5 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.59 GHz	62.6 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.65 GHz	64.2 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.71 GHz	61.9 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.76 GHz	61.7 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.82 GHz	62.3 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.88 GHz	62.5 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.94 GHz	63.1 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.00 GHz	63.6 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.06 GHz	64.0 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.12 GHz	63.8 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.18 GHz	62.6 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.24 GHz	62.2 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.29 GHz	62.6 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.35 GHz	62.4 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.41 GHz	63.5 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.47 GHz	62.9 dB	-0/ +1000dB	--- pass	0.12 dB

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Directivity, Port 2						
	25.00 dB	300 kHz	60.2 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.06 GHz	61.0 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.12 GHz	70.2 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.18 GHz	68.3 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.24 GHz	63.8 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.29 GHz	60.7 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.35 GHz	59.9 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.41 GHz	58.6 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.47 GHz	57.8 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.53 GHz	57.1 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.59 GHz	56.5 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.65 GHz	56.4 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.71 GHz	55.4 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.76 GHz	55.0 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.82 GHz	55.0 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.88 GHz	54.7 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.94 GHz	53.8 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.00 GHz	54.2 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.06 GHz	54.3 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.12 GHz	54.6 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.18 GHz	53.8 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.24 GHz	53.8 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.29 GHz	53.5 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.35 GHz	53.4 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.41 GHz	53.6 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.47 GHz	53.1 dB	-0/ +1000dB	--- pass	0.12 dB
Source Match, Port 1						
	25.00 dB	300 kHz	61.2 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.06 GHz	68.7 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.12 GHz	60.3 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.18 GHz	59.0 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.24 GHz	58.9 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.29 GHz	59.7 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.35 GHz	59.5 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.41 GHz	59.7 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.47 GHz	60.0 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.53 GHz	59.7 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.59 GHz	59.4 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.65 GHz	60.9 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.71 GHz	60.0 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.76 GHz	59.7 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.82 GHz	59.6 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.88 GHz	59.5 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.94 GHz	59.5 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.00 GHz	59.3 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.06 GHz	59.0 dB	-0/ +1000dB	--- pass	0.12 dB

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	25.00 dB	1.12 GHz	58.8 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.18 GHz	58.7 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.24 GHz	58.8 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.29 GHz	58.5 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.35 GHz	58.6 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.41GHz	57.7 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.47 GHz	57.8 dB	-0/ +1000dB	--- pass	0.12 dB
Source Match, Port 2						
	25.00 dB	300 kHz	46.9 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.06 GHz	47.7 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.12 GHz	46.0 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.18 GHz	45.4 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.24 GHz	45.3 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.29 GHz	45.2 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.35 GHz	45.0 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.41GHz	44.6 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.47 GHz	44.3 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.53 GHz	43.9 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.59 GHz	43.8 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.65 GHz	43.5 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.71GHz	43.4 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.76 GHz	43.2 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.82 GHz	43.0 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.88 GHz	42.7 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	0.94 GHz	42.4 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.00 GHz	42.3 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.06 GHz	42.2 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.12 GHz	42.2 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.18 GHz	42.0 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.24 GHz	41.8 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.29 GHz	41.8 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.35 GHz	41.6 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.41GHz	41.6 dB	-0/ +1000dB	--- pass	0.12 dB
	25.00 dB	1.47 GHz	41.6 dB	-0/ +1000dB	--- pass	0.12 dB
Reflection Tracking, Port 1						
	0.000 dB	300 kHz	0.02 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.06 GHz	0.01dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.12 GHz	0.00 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.18 GHz	0.01dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.24 GHz	0.01dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.29 GHz	0.01dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.35 GHz	0.02 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.41GHz	0.01dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.47 GHz	0.00 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.53 GHz	0.02 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.59 GHz	0.01dB	±1dB	--- pass	0.10 dB

Bereich Range	Referenzwert (Normal) Reference value	Messbedingung Measuring condition	Angezeigter Wert KG Indicated value UUT	Zulässige Abweichung Allowed deviation	Ausnutzung der zul. Abw. in % Utilization of Allowed deviation %	Messunsicher- heit ($k=2$) Measuring uncertainty ($k=2$)
	0.000 dB	0.65 GHz	-0.01dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.71 GHz	0.01dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.76 GHz	0.01dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.82 GHz	0.01dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.88 GHz	0.01dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.94 GHz	0.00 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.00 GHz	0.00 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.06 GHz	0.01dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.12 GHz	0.01dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.18 GHz	0.01dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.24 GHz	0.01dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.29 GHz	0.02 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.35 GHz	0.01dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.41 GHz	0.00 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.47 GHz	0.01dB	±1dB	--- pass	0.10 dB
Reflection Tracking, Port 2						
	0.000 dB	300 kHz	0.03 dB	±1.5dB	--- pass	0.10 dB
	0.000 dB	0.06 GHz	0.04 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.12 GHz	0.04 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.18 GHz	0.04 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.24 GHz	0.05 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.29 GHz	0.05 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.35 GHz	0.05 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.41 GHz	0.05 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.47 GHz	0.05 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.53 GHz	0.06 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.59 GHz	0.06 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.65 GHz	0.07 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.71 GHz	0.05 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.76 GHz	0.05 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.82 GHz	0.06 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.88 GHz	0.06 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.94 GHz	0.07 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.00 GHz	0.07 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.06 GHz	0.07 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.12 GHz	0.07 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.18 GHz	0.07 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.24 GHz	0.07 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.29 GHz	0.06 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.35 GHz	0.06 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.41 GHz	0.08 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.47 GHz	0.07 dB	±1dB	--- pass	0.10 dB
Load Match, Port 1						
	15.00 dB	300 kHz	22.0 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.06 GHz	33.1dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.12 GHz	33.4 dB	-0/ +1000dB	--- pass	0.12 dB

Bereich Range	Referenzwert (Normal) Reference value	Messbedingung Measuring condition	Angezeigter Wert KG Indicated value UUT	Zulässige Abweichung Allowed deviation	Ausnutzung der zul. Abw. in % Utilization of Allowed deviation %	Messunsicher- heit ($k=2$) Measuring uncertainty ($k=2$)
	15.00 dB	0.18 GHz	36.4 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.24 GHz	34.7 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.29 GHz	30.8 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.35 GHz	30.1dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.41GHz	30.9 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.47 GHz	29.6 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.53 GHz	28.0 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.59 GHz	28.7 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.65 GHz	32.1dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.71GHz	35.3 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.76 GHz	34.7 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.82 GHz	38.5 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.88 GHz	41.4 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.94 GHz	32.2 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	1.00 GHz	29.7 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	1.06 GHz	30.6 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	1.12 GHz	31.5 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	1.18 GHz	29.7 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	1.24 GHz	29.2 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	1.29 GHz	32.0 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	1.35 GHz	39.5 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	1.41GHz	37.7 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	1.47 GHz	35.7 dB	-0/ +1000dB	--- pass	0.12 dB
Load Match, Port 2						
	15.00 dB	300 kHz	22.0 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.06 GHz	33.4 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.12 GHz	34.1dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.18 GHz	36.3 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.24 GHz	33.5 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.29 GHz	30.4 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.35 GHz	30.0 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.41GHz	30.9 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.47 GHz	30.1dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.53 GHz	29.5 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.59 GHz	31.7 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.65 GHz	37.8 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.71GHz	37.5 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.76 GHz	35.2 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.82 GHz	36.2 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.88 GHz	32.6 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	0.94 GHz	29.3 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	1.00 GHz	29.3 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	1.06 GHz	32.1dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	1.12 GHz	34.4 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	1.18 GHz	33.6 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	1.24 GHz	36.4 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	1.29 GHz	65.0 dB	-0/ +1000dB	--- pass	0.12 dB
	15.00 dB	1.35 GHz	36.7 dB	-0/ +1000dB	--- pass	0.12 dB

Bereich Range	Referenzwert (Normal) Reference value	Messbedingung Measuring condition	Angezeigter Wert KG Indicated value UUT	Zulässige Abweichung Allowed deviation	Ausnutzung der zul. Abw. in % Utilization of Allowed deviation %	Messunsicher- heit ($k=2$) Measuring uncertainty ($k=2$)
	15.00 dB	1.41 GHz	33.9 dB	-0/ +1000 dB	--- pass	0.12 dB
	15.00 dB	1.47 GHz	36.9 dB	-0/ +1000 dB	--- pass	0.12 dB
Transmission Tracking, Port 1						
	0.000 dB	300 kHz	0.03 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.06 GHz	0.03 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.12 GHz	0.05 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.18 GHz	0.07 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.24 GHz	0.07 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.29 GHz	0.08 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.35 GHz	0.09 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.41 GHz	0.10 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.47 GHz	0.10 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.53 GHz	0.12 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.59 GHz	0.12 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.65 GHz	0.11 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.71 GHz	0.13 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.76 GHz	0.13 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.82 GHz	0.14 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.88 GHz	0.14 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.94 GHz	0.14 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.00 GHz	0.15 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.06 GHz	0.16 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.12 GHz	0.17 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.18 GHz	0.17 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.24 GHz	0.18 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.29 GHz	0.17 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.35 GHz	0.17 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.41 GHz	0.19 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.47 GHz	0.18 dB	±1dB	--- pass	0.10 dB
Transmission Tracking, Port 2						
	0.000 dB	300 kHz	-0.01 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.06 GHz	0.04 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.12 GHz	0.06 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.18 GHz	0.07 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.24 GHz	0.08 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.29 GHz	0.08 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.35 GHz	0.10 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.41 GHz	0.10 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.47 GHz	0.11 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.53 GHz	0.12 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.59 GHz	0.12 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.65 GHz	0.12 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.71 GHz	0.12 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.76 GHz	0.13 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.82 GHz	0.14 dB	±1dB	--- pass	0.10 dB
	0.000 dB	0.88 GHz	0.14 dB	±1dB	--- pass	0.10 dB

Bereich Range	Referenzwert (Normal) Reference value	Messbedingung Measuring condition	Angezeigter Wert KG Indicated value UUT	Zulässige Abweichung Allowed deviation	Ausnutzung der zul. Abw. in % Utilization of Allowed deviation %	Messunsicher- heit (k=2) Measuring uncertainty (k=2)
	0.000 dB	0.94 GHz	0.16 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.00 GHz	0.16 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.06 GHz	0.16 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.12 GHz	0.16 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.18 GHz	0.17 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.24 GHz	0.16 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.29 GHz	0.18 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.35 GHz	0.18 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.41 GHz	0.18 dB	±1dB	--- pass	0.10 dB
	0.000 dB	1.47 GHz	0.19 dB	±1dB	--- pass	0.10 dB

Bewertung der Konformität Determination of conformity

Gesamtkonformität: Overall conformity:

Keine Bewertung, da Messwerte im Unsicherheitsbereich ¹⁾

Indeterminate. Rating not applicable. ¹⁾

Zeichenerklärung zum Diagramm:
 ◆ blau = Normal (4Eck; µN normiert)
 ● grün = Kalibriergegenst. (Kreis; µ(KG) normiert)
 | rot = ± Zulässige Abweichung (normiert auf ±100%)
 H schwarz = erw. Messunsicherheit für k=2 (normiert)

Die Einhaltung der Spezifikation wird im Kalibrierzertifikat wie folgt angezeigt:

The compliance to specification is represented on the calibration certificate as follows:

Innerhalb der zulässigen Abweichung mit Berücksichtigung der Messunsicherheit Within specification, with measurement uncertainty taken into account	pass	
Keine Bewertung, da Messwert im Unsicherheitsbereich Indeterminate. Rating not applicable.	n/a	
Im Unsicherheitsbereich mit Berücksichtigung der Messunsicherheit Indeterminate, with measurement uncertainty taken into account	fail	
Ausserhalb der zulässigen Abweichung mit Berücksichtigung der Messunsicherheit Out-of-specification, with measurement uncertainty taken into account	fail	

Ausnutzung der zulässigen Abweichung in % = |Abweichung| / Zulässige Abweichung

Utilization of allowed deviation % = |deviation| / allowed deviation

¹⁾ Die Konformitätsaussage erfolgt entsprechend der Richtlinie DAkKS-DKD-5 unter Berücksichtigung der Messunsicherheit gemäß der Kalibrieranweisung QSA-TIS 7.5-02. Zulässige Abweichung gemäß Herstellerangabe.

¹⁾ The statement of conformity was made according to DAkKS-DKD-5 taking into account the measuring uncertainty according to calibration instruction QSA-TIS 7.5-02. Allowed deviation in accordance with manufacturer.

Messunsicherheit Measuring uncertainty

Angegeben ist die erweiterte Messunsicherheit, die sich aus der Standardmessunsicherheit durch Multiplikation mit dem Erweiterungsfaktor $k = 2$ ergibt. Sie wurde gemäß DAkkS-DKD-3 ermittelt. Der Wert der Messgröße liegt mit einer Wahrscheinlichkeit von 95 % im zugeordneten Werteintervall. Ein Anteil für die Langzeit-Instabilität ist nicht enthalten. Die dimensionslosen Anteile der Messunsicherheit sind als relative Messunsicherheiten bezogen auf den Messwert zu verstehen.

The expanded uncertainty of measurement corresponding to the measurement results is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2$. This was determined in accordance with DAkkS-DKD-3. Usually the true value is located in the corresponding interval with a probability of ca. 95%. The non-dimensional fractions of the measuring uncertainty are relative values in relation to the indicated value.

Bemerkungen Special remarks

Am Kalibriergegenstand ist eine Kalibriermarke angebracht, die mit der Kalibriernummer dieses DAkkS-Scheines, sowie mit dem Kalibriermonat und Jahr versehen wurde.

A calibration mark is attached to the calibration object which indicates the calibration number of this DAkkS certificate as well as the calibration month and year.

The German original text is valid in case of doubt.