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Production Test for Device

Tango

Serial Number: CONFIDENTIAL

microphone capsule is: CONFIDENTIAL

This device was tested according ISO 61672, ISO 60651 and the internal test specifications of the SINUS Messtechnik GmbH.

Date:	19-Jun-2017
Recommended Interval:	24 months
Next Production Test:	Jun-2019
Operator:	TUL

Signature:


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Summary

The results of the testing procedure can be found in the table below. Testing equipment:

Generator: DS360, Stanford Research Systems (serialnumber: 33965)
calibration certificate (3512087) valid until: 20 Dec 2017

Software: testing program version is 1.20.11
driver version is 5.4.31.630

All measured data can be ordered in MATLAB file format for an additional price.

The following Tests are done:

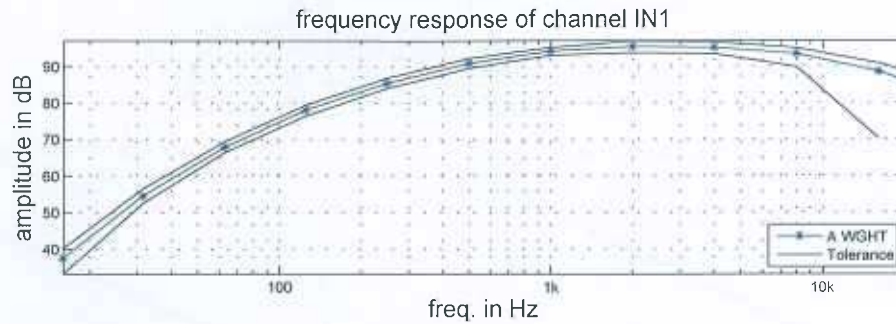
Channel	Frequency Response	Level Linearity
IN1	passed	passed

The serial number of the microphone capsule is: CONFIDENTIAL

Frequency Response Test passed!

Tolerance according EN 61672-1:2003.

The reference value is: 94 dB at 1kHz

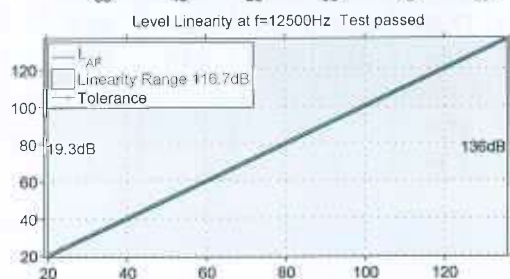
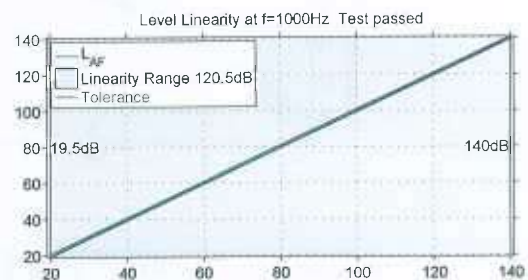
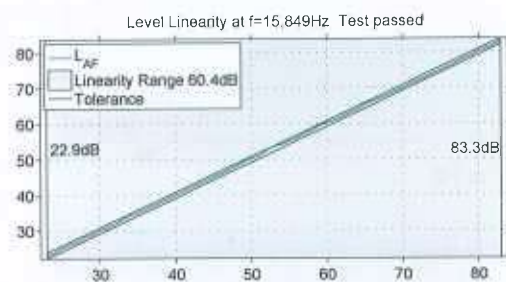


frequency in Hz	16.00	31.50	63.00	125.00	250.00	500.00	1000.00	2000.00
amplitude in dB	37.4	54.4	67.725	77.85	85.3	90.7	94	95.2
diff to norm in dB	-0.17	-0.07	-0.05	0.04	-0.02	-0.05	0.00	-0.00
frequency in Hz	4000.00	8000.00	16000.00	20000.00				
amplitude in dB	95	93.3	88.4	85.9				
diff to norm in dB	0.04	0.44	1.10	1.24				

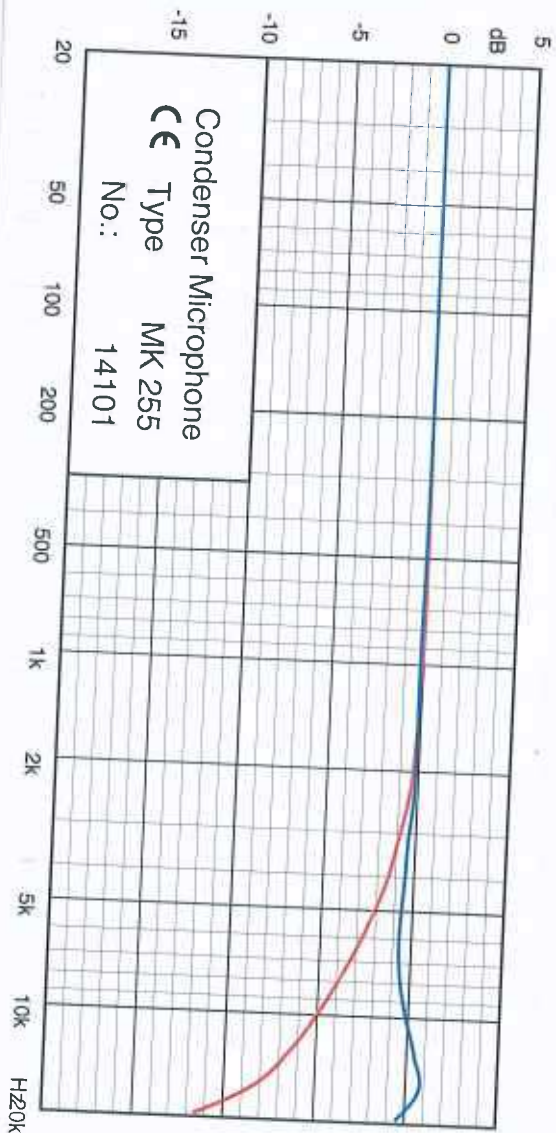
Level Linearity Test according ISO 61672 passed!

For tolerance see the table below.

Frequency	Status	lower	upper	diff	Tolerance
		in dB			
15.849Hz	passed	22.9	83.3	60.4	20
1kHz	passed	19.5	140	120.5	100
12.5kHz	passed	19.3	136	116.7	100



Measured inherent noise: 5.53dB status: passed reference value: < 20 dB



Calibration Chart

Sensitivity S_o :
equivalent to :

Cartridge Capacitance :

Polarization Voltage :

Ambient Static Pressure :

Ambient Temperature :

Relative Humidity :

— Zero Degree Incidence

— Actuator Pressure Response

Date : 25.04.2017

Signature : P. K. Z

-26.7 dB re 1V/Pa
46.4 mV/Pa
16.0 pF

0 V
94.0 kPa
23 °C
27 %

MICROTECH GEFELL GMBH

