

# Certificate of Calibration

Gigahertz Solutions GmbH

August 6, 2021

## Abstract

Certificate no.:	035000000702-20210806
Item:	NFA-1000
Manufacturer:	Gigahertz Solutions GmbH
Serial no.:	035000000702
Calibration procedure:	see text
Date of calibration:	August 6, 2021
Date of issue:	August 6, 2021
Editor:	J. Frankenberger
Number of pages:	4

All equipment used for the calibration is subject to continuous monitoring.

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J. Frankenberger

# 1 Absolute Value of Electric Field Strength

Absolute value of calibration at 50 Hz

## 1.1 Testing procedure

E-field generator with a plate distance of 100 cm from AC voltage source. The instrument is calibrated without holster.

## 1.2 Testing equipment used

4 sqm homogeneous E-field generator EG50, Gigahertz Solutions  
Signal generator WG 1475, MRR Systems  
LF power amplifier FPA-12A, Fidek  
Multimeter Fluke 289

## 1.3 Result

Axis	Voltage on field plates [V rms]	DUT [V/m rms]
X	100.02	100.1
Y	100.02	99.7
Z	100.02	100.1

# 2 Absolute Value of Magnetic Flux Density

## 2.1 Testing procedure

Precision current measurement on a Helmholtz coil uninfluential of the skin-effect in the conductors

## 2.2 Testing equipment used

Broadband Helmholtz coil HS1001, Gigahertz Solutions  
Selectable power source GB101, Gigahertz Solutions  
D/A transducer USRP 1, Ettus Research  
Multimeter 289 Fluke  
Power supply PS-2403D

## 2.3 Result

Voltage on high precision measurement resistor: 1.6519 V  $\Rightarrow$  nominal value 991.7842 nT

Axis	DUT [nT]
X	986
Y	992
Z	988

### 3 Frequency Response of Electrical Field Strength

#### 3.1 Testing procedure

Capacitive coupling of a logarithmic sine sweep from 1 Hz to 4 MHz.

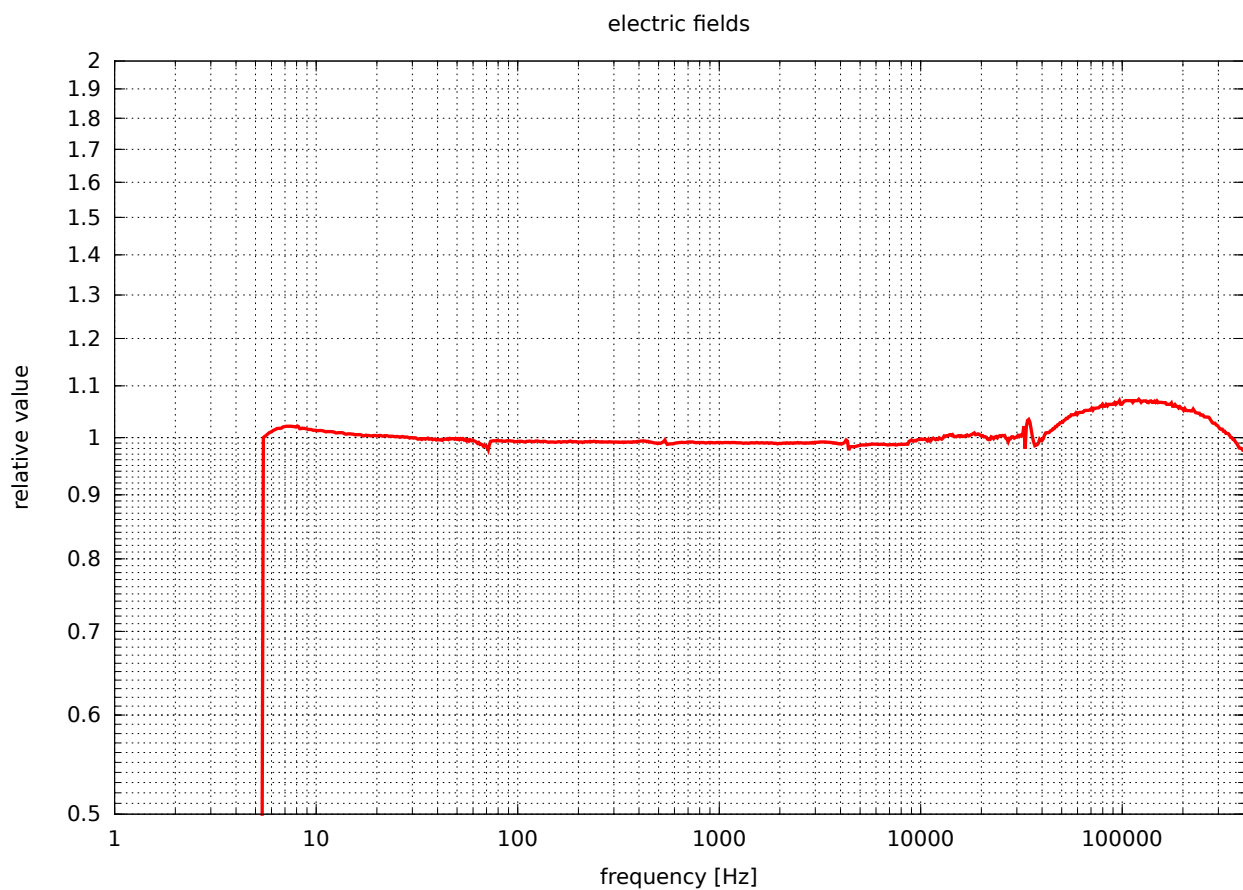
#### 3.2 Testing equipment used

Device for capacitive MDR-coupling E-HIP-P0, Gigahertz Solutions

D/A transducer USRP 1, Ettus Research

LF-high precision amplifier, Gigahertz Solutions

#### 3.3 Result



For technical reasons calibration protocols can be issued up to 400 kHz only for the time being.

## 4 Frequency Response of Magnetic Flux Density

### 4.1 Testing procedure

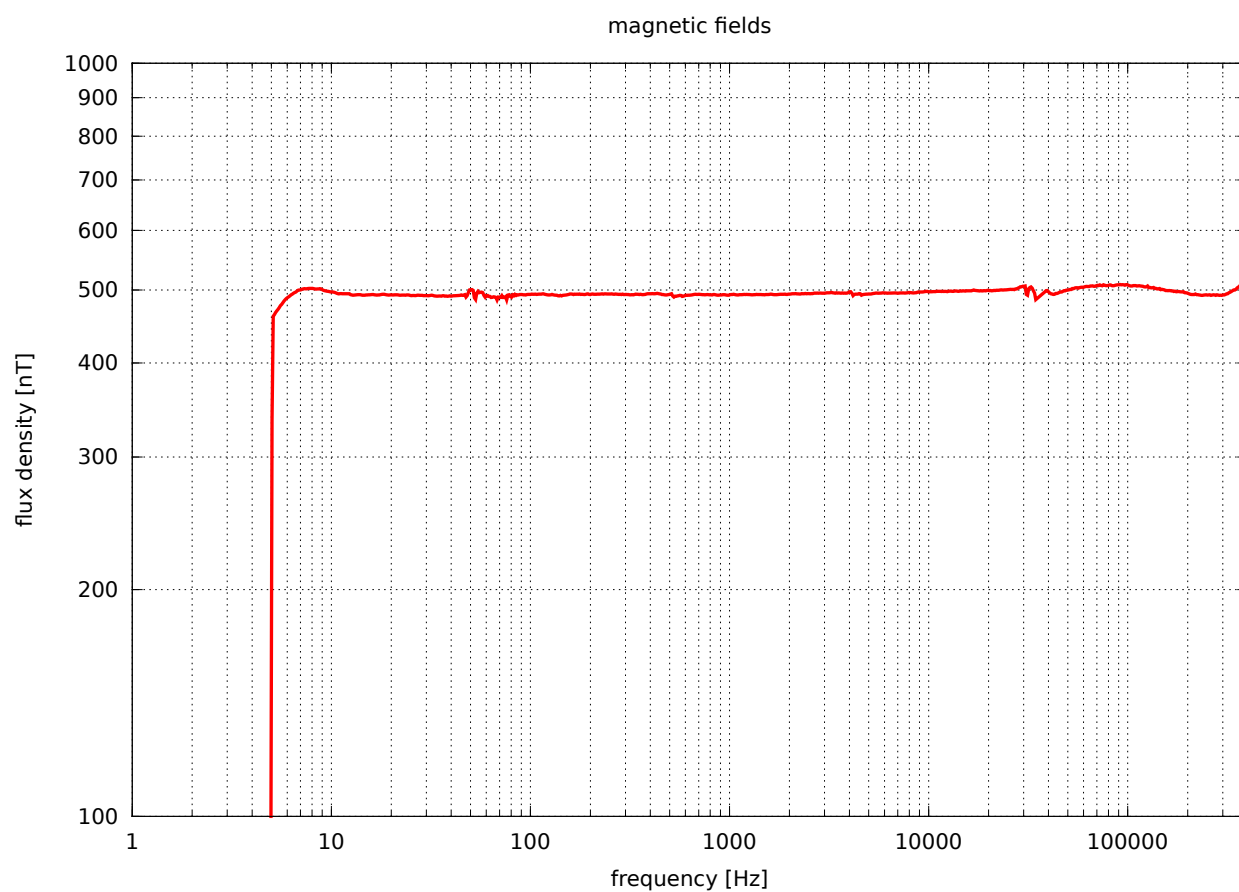
see 2.1

Nominal value: 500nT

### 4.2 Testing equipment used

see 2.2

### 4.3 Result



For technical reasons calibration protocols can be issued up to 400 kHz only for the time being.

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und Dipl. Wl.-Ing. Niels Dornedde

Handelsregister: HRB 6459 Fürth/Bayern

Langenzenn, 23.8.2021

### Certificate of Conformity

Gigahertz Solutions GmbH hereby certifies that the below instrument(s) for measuring alternating fields have been examined in the past days and are conform to their specifications.

Meter	Serial Number
FF10 Filkr	053012000271

Gigahertz Solutions GmbH further certifies that the laboratory instrumentation used to prove the instruments' quality have been calibrated to a laboratory standard directly traceable to the German "Physikalisch-Technische Bundesanstalt", the National Institute of Standards, or natural physical constants at planned intervals.

Gigahertz Solutions' "Total Quality" System is monitored by VDE, the German Association for Electrical, Electronic & Information Technologies to assure the compliance of the manufactured products to published specifications, especially for the safety of the produced demand switches.

Niels Dornedde



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Langenzenn, 23.8.2021

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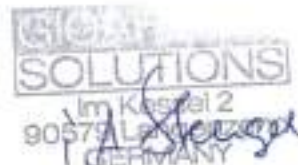
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Meter	Serial Number
UBB27-63	053030017574

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Langenzenn, 23.8.2021

**Certificate of Conformity**

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Meter	Serial Number
HF59B	053000018861
LOGPER-Antenna	053030033141

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Langenzenn, 11.05.2020

### Certificate of Conformity

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Meter	Serial Number
HF38B	053000040869

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Langenzenn, *Sept. 19, 2020*

### Certificate of Conformity

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Meter	Serial Number
<i>HFW 59 D</i>	<i>0530 0004 1417</i>

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Langenzenn, *June 22, 2020*

### Certificate of Conformity

Gigahertz Solutions GmbH hereby certifies that the below instrument(s) for measuring alternating fields have been examined in the past days and are conform to their specifications.

Meter	Serial Number
<i>HF583</i>	<i>053000029876</i>

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Langenzenn, 7.5.2020

### Certificate of Conformity

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Meter	Serial Number
HF38B	053000040817

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Langenzenn, 29.06.2020

### Certificate of Conformity

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Meter	Serial Number
HF38B	053000012013

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Langenzenn, Aug 08, 2019

### Certificate of Conformity

Gigahertz Solutions GmbH hereby certifies that the below instrument(s) for measuring alternating fields have been examined in the past days and are conform to their specifications.

Meter	Serial Number
NFA 30 M	0350 0000 0886

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Langenzenn, 5.7.2019

### Certificate of Conformity

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Meter	Serial Number
NFA 30M	035000000613

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Langenzenn, 5.7.2019

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Meter	Serial Number
HF38B	053000036809

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Niels Dornedde



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Langenzenn, 27.05.19

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Meter	Serial Number
HF 38B	0530 0003 8825

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Niels Dernetde

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Langenzenn, 23. 01. 2019

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NFA 30 M	0350 00002027

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Langenzenn, 27.10.18

### Certificate of Conformity

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HF 38 B	053000027739

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Langenzenn, 7.3.2018

### Certificate of Conformity

Gigahertz Solutions GmbH hereby certifies that the below instrument(s) for measuring alternating fields have been examined in the past days and are conform to their specifications.

Meter	Serial Number
NFA 30M	035000001274

Gigahertz Solutions GmbH further certifies that the laboratory instrumentation used to prove the instruments' quality have been calibrated to a laboratory standard directly traceable to the German "Physikalisch-Technische Bundesanstalt", the National Institute of Standards, or natural physical constants at planned intervals.

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Langenzenn, January 11, 2018

### Certificate of Conformity

Gigahertz Solutions GmbH hereby certifies that the below instrument(s) for measuring alternating fields have been examined in the past days and are conform to their specifications.

HF38B serial number 053000015719

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*i.A. S. B. R.*  
Niels Dornedde

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Langenzenn, Dec. 20, 2017

### Certificate of Conformity

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Meter	Serial Number
HF 38 B	053000035393

Gigahertz Solutions GmbH further certifies that the laboratory instrumentation used to prove the instruments' quality have been calibrated to a laboratory standard directly traceable to the German "Physikalisch-Technische Bundesanstalt", the National Institute of Standards, or natural physical constants at planned intervals.

Gigahertz Solutions' "Total Quality" System is monitored by VDE, the German Association for Electrical, Electronic & Information Technologies to assure the compliance of the manufactured products to published specifications, especially for the safety of the produced demand switches.

  
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Langenzenn, 28.11.2017

### Certificate of Conformity

Gigahertz Solutions GmbH hereby certifies that the below instrument(s) for measuring alternating fields have been examined in the past days and are conform to their specifications.

Meter	Serial Number
HE 3030B	013000059393

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