



校准证书
CALIBRATION CERTIFICATE



扫一扫验真伪
1GA21090110767-0116

证书编号:
Certificate No.



委托方:
Client 东莞市诺尔检测科技有限公司

委托方地址:
Address 东莞市南城区周溪隆溪路5号高盛科技园D栋101、102、103、202室

仪器名称:
Description EMF测试仪

型号/规格:
Model/Type ELT-400

制造厂商:
Manufacturer Narda

出厂编号:
Serial No. O-0167 管理号:
Asset No. NTCS-286

样品接收日期:
Date of Receipt 2021-09-15
Y M D

结果:
Conclusion 所校准项目合格(Passed at Calibration Items)

校准日期:
Date of Calibration 2021-09-15 建议下次校准日期:
Due Date 2022-09-14
Y M D Y M D

校准:
Calibration by 廖衡

审核:
Inspected by 肖晖

授权签字人:
Approved Signatory 方文潮



证书专用章
(Stamp)

本实验室地址: 广东省广州市番禺区石碁镇农科所南街8号

Address: No.8.South Street Shi Ji Institute Guangzhou.Guangdong.China

联系电话(Tel): 020-31134076

投诉电话(CT): 020-31104772

传真(Fax): 020-31134076

邮政编码(Post): 511400

公司网址(Web): www.lisaitest.com

电子邮件(E-mail): cal@lisaitest.com



校准说明

DIRECTIONS OF CALIBRATION

证书编号:
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本机构质量管理体系符合ISO/IEC17025标准要求。

The quality system is in accordance with ISO/IEC17025.

1. 证书内页中"P"代表"合格","F"代表"不合格","N/A"代表"不适用"。

In the datasheet,"P" represents "Pass" and "F" represents "Fail" and "N/A" represents "Not Applicable".

2. 本证书编号具有唯一性, 后缀若带有"A~Z"的证书为替换证书, 自发出后原证书即刻作废。

Each certificate has a unique number, The suffix of "A~Z" will be added to the number as a replacement of the old version. The original certificate will be officially invalid once the new certificate number is issued.

3. 环境条件。(Environmental condition during the calibration).

温度(Temperature): 22°C 相对湿度 (Relative Humidity): 58 %

4. 校准地点。(Place of the Calibration).

广州总部实验室(五楼场强室)

5. 报告无检测单位印章无效,未加盖“检测/证书报告专用章”无效,报告无主检、审核、批准人签章无效。

The report is invalid without the official stamp, report is invalid without 'report stamp', The report is invalid without the signatures of Approval and Reviewer.

6. 样品及生产/研制方的相关信息由委托方提供并由委托方承担相应责任。

The information of the samples and the manufacturer/developer shall be provided by the applicants and applicant shall bear the corresponding responsibilities.

7. 本次校准的技术依据及CNAS认可范围, 超出范围的内容未被认可。详细认可范围请查看CNAS网站中注

册编号为L7127的证书附件。(Reference documents and accredited scope by CNAS for the Calibration beyond which isn't accredited. Please see the attachment of certificate No.L7127 on CNAS website for details.)

JJG 1049-2009 弱磁场交变磁强计检定规程 V.R. of Alternating Tesla-Meter for Weak Magnetic Field

8. 本次校准使用的主要计量标准器具。(Main standards of measurement used in the Calibration).

| 名称 Description | 出厂编号 Serial No. | 证书号/有效期 Certificate No./ Due Date | 溯源机构 Traceability Institute | 技术特征 Technique Character |
|-------------------|--------------------|--------------------------------------|-----------------------------------|---|
| 数字万用表 | MY45016840 | DBS202109416 / 2022-08-18 | 华南国家计量测试中心 | DCV:Urel=0.001%,ACV:Urel=0.01% DCI:Urel=0.015%,ACI:Urel=0.02% OHM:Urel=0.0035%(k=2) |
| 函数信号发生器 | MY40023947 | 3GC20120354841-0012 / 2021-12-23 | 广州力赛计量检测有限公司 | 频率: 2E-06, 幅度: ±1% |
| 亥姆霍兹线圈 | MF171031220 | 3GC21072792147-2235 / 2021-10-24 | 广州力赛计量检测有限公司 | ±0.8dB |
| 电压放大器 | 046558 | 3GC21040272447-4123 / 2022-04-29 | 广州力赛计量检测有限公司 | 10:1 |
| 辐射仪 | 2244/80 | 3GC20090138960-11149 / 2021-09-29 | 广州力赛计量检测有限公司 | U=1.6dB |





广州力赛计量检测有限公司

Guangzhou LiSai Calibration and Testing Co., Ltd



中国认可
国际互认
校准
CALIBRATION
CNAS L7127

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1、外观以及一般性检查: 正常
In view of External and Generality check : Pass

2、场强测量准确度 (Field Strength Measuring Accuracy):

| 频率 Frequency | 标准值 Reference | 指示值 Indicated | 误差 Error | 不确定度 Uncertainty | 允许误差 MPE | 结论 Conclusion |
|-----------------|------------------|------------------|-------------|---------------------|-------------|------------------|
| (Hz) | (μ T) | (μ T) | (μ T) | (%) | (μ T) | (Pass/Fail) |
| 5 | 2.000 | 2.021 | 0.021 | 1.0 | \pm 0.12 | P |
| 10 | 20.00 | 20.20 | 0.20 | 1.0 | \pm 1.20 | P |
| 20 | 20.00 | 20.32 | 0.32 | 1.0 | \pm 1.20 | P |
| 50 | 20.00 | 20.28 | 0.28 | 1.0 | \pm 1.20 | P |
| 100 | 20.00 | 20.35 | 0.35 | 1.0 | \pm 1.20 | P |
| 200 | 20.00 | 20.16 | 0.16 | 1.0 | \pm 1.20 | P |
| 500 | 20.00 | 20.15 | 0.15 | 1.0 | \pm 1.20 | P |
| (kHz) | (μ T) | (μ T) | (μ T) | (%) | (μ T) | |
| 1 | 20.00 | 20.24 | 0.24 | 1.0 | \pm 1.20 | P |
| 2 | 2.000 | 2.016 | 0.016 | 1.0 | \pm 0.12 | P |
| 5 | 2.000 | 2.016 | 0.016 | 1.0 | \pm 0.12 | P |
| 10 | 2.000 | 2.016 | 0.016 | 1.0 | \pm 0.12 | P |
| 20 | 2.000 | 2.024 | 0.024 | 1.0 | \pm 0.12 | P |
| 100 | 2.000 | 2.016 | 0.016 | 1.0 | \pm 0.12 | P |
| 400 | 2.000 | 2.021 | 0.021 | 1.0 | \pm 0.12 | P |

3、示值线性 (Indication Linearity):

| 频率 Frequency | 标准值 Reference | 指示值 Indicated | 误差 Error | 不确定度 Uncertainty | 允许误差 MPE | 结论 Conclusion |
|-----------------|------------------|------------------|-------------|---------------------|-------------|------------------|
| (Hz) | (μ T) | (μ T) | (μ T) | (%) | (μ T) | (Pass/Fail) |
| 50 | 100.0 | 100.00 | Ref. | 1.0 | / | / |
| | 50.00 | 50.12 | 0.12 | 1.0 | \pm 3.00 | P |
| | 20.00 | 20.06 | 0.06 | 1.0 | \pm 1.20 | P |
| | 10.00 | 10.05 | 0.05 | 1.0 | \pm 0.60 | P |
| | 5.000 | 5.02 | 0.02 | 1.0 | \pm 0.30 | P |
| | 2.000 | 2.01 | 0.01 | 1.0 | \pm 0.12 | P |





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4、探头各向同性 (Probe Isotropy):

| 轴向 | 标准值 | 指示值 | 误差 | 不确定度 | 允许误差 | 结 论 |
|------|-------------|-------------|-------------|-------------|-------------|-------------|
| Axis | Reference | Indicated | Error | Uncertainty | MPE | Conclusion |
| | (μT) | (μT) | (μT) | (%) | (μT) | (Pass/Fail) |
| X | 10.00 | 10.09 | 0.09 | 1.0 | ± 0.60 | P |
| Y | 10.00 | 10.15 | 0.15 | 1.0 | ± 0.60 | P |
| Z | 10.00 | 10.11 | 0.11 | 1.0 | ± 0.60 | P |

附： 关于测量结果不确定度的说明:

appendix: Directions of uncertainty in the calibration

1.依据(Reference document)

JJF 1059.1-2012测量不确定度评定与表示

(JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

2.测量结果扩展不确定度 (Expanded uncertainty of the measurement results)

k=2

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