



# 校准证书

## CALIBRATION CERTIFICATE

证书编号:  
Certificate No.



J201905241881-01-0001

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委托方  
Client

优利德科技（中国）股份有限公司

委托方地址  
Address

广东省东莞松山湖高新技术产业开发区工业北一路6号

仪器名称  
Description

声级计

型号/规格  
Model/Type

UT352

制造厂  
Manufacturer

UNI-T

出厂编号  
Serial No.

C190663085

管理号  
Asset No.

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校准日期  
Date of Calibration

2019年08月13日

Y M D

样品接收日期  
Date of Receipt

2019年08月12日

Y M D

批准人:  
Approved Signatory

李平 (副主任)

审核:  
Inspected by

李俊峰

校准:  
Calibrated by

林友平



总部地址: 广东省广州市黄埔大道西平云路163号 (分场所地址见公司网站)

Headquarters Address: No.163.Pingyun Rd, West of HuangPu Ave.Guangzhou.  
Guangdong.China(Each Address Can be Found on The Company's Website)

联系电话(Tel.):020-38699960,66830999,400-602-0999

传真(Fax):020-38695185

邮政编码(Postcode):510656

网站(Website):http:// www.grgtest.com

电子邮件(E-mail):grgtest@grgtest.com



扫一扫验真伪

## 校准说明

### DIRECTIONS OF CALIBRATION

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1. 本实验室出具的数据均可溯源至国家计量基准和国际单位制(SI)。  
(All data issued by GRGTest are traced to National Primary Standards and International System of Units(SI).)
2. 本结果仅对当次被测样品有效, 如有疑问请在15个工作日内反馈。(The result is ONLY valid for the tested sample, please feedback to us within 15 working days if you have any question.)
3. 本证书编号具有唯一性, 后缀若带有“-Gx”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 "-Gx" 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.)
4. 证书中如有最大允许误差、判定结果, 仅供参考, 其中“P”代表“合格”, “F”代表“不合格”。使用人员还应结合实际测量要求, 评估校准结果测量不确定度对符合性评定的影响。(MPE & judgement result in the datasheet is only for reference, "P" represents "Pass" and "F" represents "Fail". Whereas users should evaluate the effects of measurement uncertainty of calibration results on conformity determination associated with actual measurement.)
5. 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。注: 详细的认可范围请查看CNAS网站中注册编号为L0446的证书附件。(Reference document and accredited scope by CNAS for calibration, beyond which isn't accredited. Please see the attachment of certificate No.L0446 on CNAS website for details.)  
JJG 188-2017 声级计检定规程(V.R. of Sound Level Meters):声压级:(30~130)dB

#### 6. 本次校准使用的主要测量标准(Main Standards of Measurement Used in the Calibration.):

名称 / 型号 Description / Model	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
噪声振动测试系统(麦克风)/4180	2787465	LSae2018-5136 2019-12-02	中国计量科学研究院	$U=(0.05\sim 0.20)\text{dB}$ ( $k=2$ )
声校准器/4231	3015716	LSae2018-5041 2019-11-26	中国计量科学研究院	1级
消声室校准装置/3160-A-042	3160-106973	J201907250706-0010 2020-07-28	广州广电计量检测股份有限公司	A级

#### 7. 校准地点、环境条件(Place and environmental conditions of the calibration):

地点 Place	广州计量振动声学室	温度 Temperature	23 °C	相对湿度 Relative Humidity	53 %
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8. 建议复校时间间隔: 1 年, 送校单位也可按实际使用情况自主决定。  
Suggested calibration interval is 1 year or it can be altered depending on the actual usage of the user.

校 准 结 果  
RESULTS OF CALIBRATION

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1、外观及各部分相互作用: 符合要求 声级计传声器是否可移除: 否

Apparent inspection and the function of each part of interaction: Whether detachable microphone

2、指示声级调整 (声校准器型号: 4231 标准声压级: 94.0 dB):

SPL Indication Adjustment Model: Standard level:  
校准前示值: 94.6 dB 校准后示值: 93.8 dB

Indication before Calibrated Indication after Adjusted:

3、频率计权 仪器频率范围: (20~8000) (Hz)

Frequency weighting Frequency range

3.1、A计权

A weighting

标称频率	A计权实测值	误差	接受限	结论
Nominal Frequency	A Weighting Measured Value	Error	Acceptance Limit	Conclusion
(Hz)	(dB)	(dB)	(dB)	(P/F)
20	-49.6	+0.9	±3.0	P
31.5	-39.7	-0.3	±3.0	P
63	-26.0	+0.2	±2.0	P
125	-16.2	-0.1	±1.5	P
250	-8.9	-0.3	±1.5	P
500	-2.9	+0.3	±1.5	P
1000	0.0	0.0	±1.0	P
2000	+0.9	-0.3	±2.0	P
4000	+1.4	+0.4	±3.0	P
8000	-0.3	+0.8	±5.0	P



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## 3.2、C计权 (声信号)

C weighting (Acoustic signal)

标称频率	C计权实测值	误差	接受限	结论
Nominal Frequency	C Weighting Measured Value	Error	Acceptance Limit	Conclusion
(Hz)	(dB)	(dB)	(dB)	(P/F)
20	-5.7	+0.5	±3.0	P
31.5	-2.7	+0.3	±3.0	P
63	-0.5	+0.3	±2.0	P
125	0.0	+0.2	±1.5	P
250	+0.5	+0.5	±1.5	P
500	+0.3	+0.3	±1.5	P
1000	-0.1	-0.1	±1.0	P
2000	-0.6	-0.4	±2.0	P
4000	-0.3	+0.5	±3.0	P
8000	-2.2	+0.8	±5.0	P

## 4、自生噪声

Authigenic noise

安装传声器

Microphone installed

A计权:

A weighting:

30.7

dB

备注:

Notes:

结论 (Conclusion): 所校项目符合2级要求

1.本报告中的扩展不确定度是由标准不确定度乘以包含概率约为95%时的包含因子 $k$ 。The expanded uncertainty is given in the report by the standard uncertainty multiplied by the probability of about 95% when the factor  $k$ .

(20~200)Hz

 $U=0.5\text{dB}$  ( $k=2$ );

(200~1250)Hz

 $U=0.4\text{dB}$  ( $k=2$ );

(1.25~8)kHz

 $U=0.6\text{dB}$  ( $k=2$ );

2.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)

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