



广州广电计量检测股份有限公司
GUANG ZHOU GRG METROLOGY & TEST CO.,LTD.



中国认可
国际互认
校准
CALIBRATION
CNAS L0446

校准证书

CALIBRATION CERTIFICATE



证书编号:
Certificate No.

J201708048199-05-0001-G1

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委托方
Client

优利德科技（中国）有限公司

委托方地址
Address

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

UT353BT

制造厂
Manufacturer

UNI-T

出厂编号
Serial No.

H170379886

管理号
Asset No.

校准日期

2017年11月20日

Date of Calibration

Y M D

样品接收日期

2017年11月17日

Date of Receipt

Y M D

批准人:

Approved Signatory

李平 (副主任)

审核:

Inspected by

胡加林

校准:

Calibrated by

林友平

证书专用章
(Stamp)

地址: 广东省广州市黄埔大道西平云路163号

Address: No.163.Pingyun Rd, West of HuangPu Ave.Guangzhou.Guangdong.China

计量校准机构备案号 (The record number): [2012]粤量校S003号

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

传真 (Fax): 020-38698685

网站 (Website): <http://www.grgtest.com>

邮政编码 (Postcode): 510656

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”。证书中结论判定是指测得值是否符合规定要求的限定值, 而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". The judgement is made on the basis of whether the measured value conforms to the limited value specified in the regulation, 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 188-2002 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.	证书编号 Certificate No.	证书有效期 Due Date	技术特征 Technique Character
噪声振动测试系统(麦克风)/4180	2787465	LSae2017-1054	2018-02-28	$U=(0.05\sim0.12)\text{dB}$ ($k=2$)
噪声振动测试系统(主机)/3160-A-042	3160-105620	LSae2017-1149	2018-03-05	MPE: $\pm 0.1\text{dB}$
声校准器/4231	3015716	J201702136245-151-0010	2018-04-06	1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	22 °C	相对湿度 Relative Humidity	49 %
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8. 建议复校时间间隔:
Suggested calibration interval is

1 年, 送校单位也可按实际使用情况自主决定。

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

Apparent inspection and the function of each part of interaction:

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

Level Calibration

Model:

Standard level:

校准前示值:

95.0 dB

校准后示值:

93.8 dB

Indication before Calibrated

Indication after Adjusted:

3、频率A计权校准:

Calibration of the Frequency A weighings:

标称频率	实测值A计权	允许范围	结论
Nominal	Measured	Tolerance	Conclusion
(Hz)	(dB)	(dB)	(P/F)
31.5	-38.2	-42.9~-35.9	P
63	-27.8	-28.7~-23.7	P
125	-17.9	-18.1~-14.1	P
250	-9.2	-10.5~-6.7	P
500	-2.6	-5.1~-1.3	P
1000 (ref)	0.0	-1.4~+1.4	P
2000	-0.3	-1.4~+3.8	P
4000	+1.4	-2.6~+4.6	P
8000	-1.2	-6.7~+4.5	P



校准结果 RESULTS OF CALIBRATION

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4、级线性 (参考频率 1kHz)

Level Change Error(Reference frequency 1kHz)

4.1、级程变化误差 (量程: 30dB~130dB ; 参考频率: 1000Hz)

Level Change Error(Range: 30dB~130dB;Reference frequency 1000Hz)

标准值	实测值	误差	允差	结论
Reference	Measured	Error	Tolerance	Conclusion
(dB)	(dB)	(dB)	(dB)	(P/F)
40	40.8	+0.8	±1.0	P
50	50.4	+0.4		P
60	60.2	+0.2		P
70	70.3	+0.3		P
80	80.0	0.0		P
90(ref)	90.0	0.0		P
100	99.9	-0.1		P
110	109.8	-0.2		P
120	119.7	-0.3		P
130	129.3	-0.7		P

4.2、参考级量程

Reference range:

起始点指示声级: 90 dB

Start point:

起始点以上间隔1dB点的最大误差: 0.0 dB

Maximum Error for each 1dB above start point:

起始点以下间隔1dB点的最大误差: 0.0 dB

Maximum Error for each 1dB above below point:

5、本机噪声: A计权: 34.5 dB

Residual noise: A-weighting:

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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 .频率计权: (10~200)Hz $U=0.4\text{dB}$ ($k=2$); (250~400)Hz $U=0.5\text{dB}$ ($k=2$);Frequency weighting 500Hz~1.25kHz $U=0.6\text{dB}$ ($k=2$); (1.6~8)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)