

校准证书
CALIBRATION CERTIFICATE

证书编号:

Certificate No.



J202405233745-0001

第 1 页 共 5 页

Page

of

委托方

Client

北京优锶科技有限公司

联络信息

Contact Inf.

北京市朝阳区酒仙桥乙21号佳丽饭店内一层B-38

仪器名称

Description

功率计探头

型号/规格

Model/Type

U8488A

制造厂

Manufacturer

KEYSIGHT

出厂编号

Serial No.

MY59330008

管理号

Asset No.

接收日期

Receipt Date

2024年05月27日

校准日期

Cal. Date

2024年05月28日

Y M D

发布日期

Issued Date

2024年05月28日

Y M D

批准

Approved by

李文兴

李文兴

审核

Inspected by

张勇

张勇

校准

Calibrated by

杨文福

杨文福

证书专用章

(Stamp)

总部地址(Headquarters Add.): 广东省广州市黄埔大道西平云路163号

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

实验室地址(Add.of the Lab): 广东省广州市黄埔大道西平云路163号

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

联系电话(Tel.):400-602-0999

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

证书编号: J202405233745-0001

第 2 页 共 5 页

Certificate No.

Page of

- 1.本实验室的质量管理体系符合ISO/IEC 17025:2017标准的要求,校准结果均可溯源至国际单位制(SI)单位。
(The quality system is in accordance with ISO/IEC 17025:2017,the calibration results are traceable to the International System of Units (SI).)
 - 2.本结果仅对本次校准样品有效。未经实验室批准,不得部分复制。如有疑问请在15个工作日内反馈。
(The result is only valid for the calibrated sample.The certificate shall not be reproduced except in full,without the written approval of our laboratory .please feedback to us within 15 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”,“N/A”代表“不适用”。使用人员应结合实际测量需求,评估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" is "Pass" , "F" is "Fail" and "N/A" is "Not Applicable".Whereas users should evaluate the effects of MU of calibration results on conformance assessment by actual measurement.)
 - 5.校准地点、环境条件(Place and environmental conditions of the calibration):
地点: 广州计量无线电室
Place Guangzhou Metrology Radio Room
温度: 23℃ 相对湿度: 52%
Temperature Relative Humidity
 - 6.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.
 - 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网站证书附件。(Reference document and accredited scope by CNAS for calibration, beyond which isn't accredited. Please see the attachment of certificate on CNAS website for details.)
- JJF 1887-2020 射频与微波功率传感器校准规范(C.S.for RF & Microwave Power Sensors) 校准因子:
(0.01~25)mW(9kHz~110GHz) 驻波比: 1~5,(9kHz~67GHz)

校准说明
DIRECTIONS OF CALIBRATION

证书编号: J202405233745-0001

第 3 页 共 5 页

Certificate No.

Page of

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

名称	编号	证书号/有效期	溯源机构	技术特征
Description	Serial No.	Certificate No./ Due Date	Traceability Institute	Technique Character
双通道功率指示器	MY62330003	J202308236107- 0004 2024-09-12	广电计量检测集 团股份有限公司	功率指示线性: $\pm 0.5\%$, 参考 源: $\pm 0.5\%$
微波信号源 Signal Generator	MY59140096	XDxh2024-00339 2025-02-28	中国计量科学研 究院/NIM	频率: 250kHz~67GHz, MPE: $\pm 7.5E-8$; Level: $\pm$ (0.6~2.0)dB
功率计探头 Power Sensor	MY59260005	XDgp2023-02968 2024-08-28	中国计量科学研 究院	频率: 10MHz~67GHz; 校准因 子: $U_{rel} = (0.7 \sim 5.0) \% (k=2)$

校准结果
RESULTS OF CALIBRATION

证书编号: J202405233745-0001

第 4 页 共 5 页

Certificate No.

Page of

1、外观以及一般性检查: 正常

In view of External and Generality check : Pass

2、校准因子

Calibration factor

频率 Frequency (MHz)	校准因子 Cal Factor /	不确定度 $U_{rel}(k=2)$ /
10	98.7%	1.5%
50	99.1%	1.5%
100	99.2%	1.5%
500	99.1%	1.5%
1000	99.1%	1.5%
2000	99.0%	1.5%
3000	98.8%	2.0%
4000	98.8%	2.0%
5000	98.7%	2.0%
6000	98.0%	2.0%
7000	98.3%	2.0%
8000	98.0%	2.0%
9000	98.2%	2.4%
10000	98.3%	2.4%
11000	97.8%	2.4%
12000	97.3%	2.4%
13000	97.2%	3.0%
14000	97.3%	3.0%
15000	96.8%	3.0%
16000	97.1%	3.0%
17000	98.0%	3.0%
18000	97.0%	3.0%
19000	97.7%	3.0%
20000	97.2%	3.0%
21000	98.5%	3.5%
22000	97.8%	3.5%
23000	97.0%	3.5%
24000	98.6%	3.5%
25000	97.7%	3.5%
26000	98.1%	3.5%
26500	97.7%	3.5%

校准结果
RESULTS OF CALIBRATION

证书编号: J202405233745-0001

第 5 页 共 5 页

Certificate No.

Page of

频率 Frequency (MHz)	校准因子 Cal Factor /	不确定度 $U_{rel}(k=2)$ /
27000	97.3%	4.0%
28000	97.7%	4.0%
29000	98.1%	4.0%
30000	97.5%	4.0%
31000	98.1%	4.0%
32000	97.2%	4.0%
33000	98.3%	4.0%
34000	97.4%	4.0%
35000	98.4%	4.0%
36000	98.3%	4.0%
37000	98.9%	4.0%
38000	99.3%	4.0%
39000	97.6%	4.0%
40000	99.4%	4.0%
41000	98.1%	4.5%
42000	97.9%	4.5%
43000	99.1%	4.5%
44000	98.5%	4.5%
45000	98.6%	4.5%
46000	98.6%	4.5%
47000	98.5%	4.5%
48000	97.1%	4.5%
49000	97.6%	4.5%
50000	97.4%	4.8%
55000	102.4%	5.0%
60000	98.0%	5.0%
65000	97.2%	5.5%
66000	98.1%	5.5%
67000	98.6%	5.5%

备注:

Notes:

结论 (Conclusion): 按校准结果使用

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 .

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)

(以下空白)

(The below is blank)