



較正完了通知書

Completion Notice of Calibration

| | | | |
|-------|---------------------------|---|----------------------|
| 申請者 | Customer | : | Intertek Japan K.K. |
| 所在地 | Address | : | 茨城県神栖市砂山3番地2 |
| 機器種別 | Type of Instrument(s) | : | スペクトル分析器 |
| 製造者 | Manufacturer | : | Agilent Technologies |
| 型式 | Model No. | : | E7401A |
| 製造番号 | Serial No. | : | US39440255 |
| 較正完了日 | Calibration Date | : | Dec. xx, 2012 |
| 発行日 | Date of Issue | : | Dec. xx, 2012 |
| 通知書番号 | Notice No. | : | JC12120xxx |
| 温度 | Temperature | : | 24 Degree C |
| 湿度 | Humidity | : | 60 % RH |
| 較正方法 | Calibration Procedure No. | : | RJP-CA006 |
| 備考 | Note | : | |

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上記の機器は、当社の規定、及び手順書に従って較正を行い、その結果が別紙の較正結果の通りであることを証明します。

Intertek Japan K.K. certifies that the above instrument was calibrated in accordance with applicable our calibration rule and calibration procedure.

Katsuyuki Tanakajima

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Equipment used for the calibration are traceable to SI units (national or international standards) via calibration services by manufacturer or recognized standards laboratories. This document shall not be reproduced, except in full.

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較 正 結 果

Calibration Report

| | | |
|-----------|-----------------------|------------------------|
| 機 器 種 別 | Type of Instrument(s) | : スペクトル分析器 |
| 製 造 者 | Manufacturer | : Agilent Technologies |
| 型 式 | Model No. | : E7401A |
| 製 造 番 号 | Serial No. | : US39440255 |
| 較 正 完 了 日 | Calibration Date | : Dec. xx, 2012 |
| 較 正 場 所 | Calibration Place | : Calibration room |
| 備 考 | Note | : |

| No. | Category・Standard / Calibration method |
|-----------|--|
| 1 | 正弦波電圧(周波数応答) |
| 2 | 周波数 |
| 3 | 周波数スパン |
| 4 | 基準レベル |
| 5 | 入力減衰器 |
| 6 | 分解能帯域幅 |
| Remarks : | |

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Calibration Equipment Used

| Instrument | Manufacturer | Model No. | Serial No | Expiry Date | Calibrated by |
|---------------------------|---------------|-----------|------------|-------------|---------------|
| Power Meter | Agilent | E4418B | GB38410272 | Apr. 2013 | NICT |
| Power Sensor | Agilent | E9304A | MY41498609 | Apr. 2013 | NICT |
| Standard Signal Generator | Rohde&Schwarz | SMA100A | 101599 | Jun. 2012 | Intertek |

| Calibration Uncertainty (Reported uncertainties represent expanded uncertainties expressed at approximately 95% confidence level using a coverage factor of $k=2$.) | | | |
|--|---------------------|---------------------------------|--------------------------|
| No. | Category · Standard | Frequency | Uncertainty [$k=2$] |
| 1 | 正弦波電圧(周波数応答) | 9 kHz to 1 GHz | 0.40 [dB] |
| | | 1 GHz to 18 GHz | 0.56 [dB] |
| 2 | 周波数 | 10 Hz to 18 GHz | 1.0×10^{-5} [%] |
| 3 | 周波数スパン | 10 Hz to 18 GHz | 1.0×10^{-5} [%] |
| 4 | 基準レベル | 60 dB μ V to 100 dB μ V | 0.50 [dB] |
| 5 | 入力減衰器 | 0 dB to 60 dB | 0.35 [dB] |
| 6 | 分解能帯域幅 | 200 Hz to 5 MHz | 2.7 [%] |

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1. 正弦波電圧 (周波数応答)

| | | | |
|--------------|--------------|----------------|------|
| VBW: | Auto | RF Attenuator: | 10dB |
| Input Level: | 97dB μ V | Log/Div.: | 10dB |

| Frequency [MHz] | Ref. [dB μ V] | Measured [dB μ V] | Dev. [dB] | Res BW [kHz] | SPAN [MHz] |
|--------------------|----------------------|--------------------------|--------------|-----------------|---------------|
| 0.009 | 97.01 | 97.01 | 0.00 | 1 | 0.01 |
| 0.100 | 97.00 | 97.01 | 0.01 | 1 | 0.01 |
| 1.000 | 97.02 | 97.00 | -0.01 | 10 | 0.1 |
| 10.000 | 97.01 | 97.01 | 0.00 | 10 | 0.1 |
| 30.000 | 97.00 | 96.98 | -0.02 | 10 | 0.1 |
| 50.000 | 97.00 | 97.02 | 0.02 | 10 | 0.1 |
| 100.000 | 97.01 | 96.94 | -0.07 | 10 | 0.1 |
| 300.000 | 97.02 | 96.96 | -0.06 | 10 | 0.1 |
| 500.000 | 97.01 | 96.94 | -0.07 | 10 | 0.1 |
| 1500.000 | 97.00 | 96.96 | -0.04 | 1000 | 10 |

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2. 周波数

2.1 Frequency counter mode

| Frequency [MHz] | Measured [MHz] | Remarks |
|-----------------|--------------------|---------|
| 0.00900 | 0.009000 | |
| 0.10000 | 0.100000 | |
| 1.00000 | 1.000000 | |
| 10.00000 | 10.000000 | |
| 30.00000 | 30.000000 | |
| 50.00000 | 50.000001 | |
| 100.00000 | 100.000001 | |
| 300.00000 | 300.000004 | |
| 500.00000 | 500.000006 | |
| 1500.00000 | 1500.000020 | |

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3. 周波数スパン

| | |
|----------------|--------|
| Frequency: | 100MHz |
| RF Attenuator: | 10dB |
| Log/Div.: | 10dB |

| Span [MHz] | Measured [MHz] | Remarks |
|------------|-------------------|---------------|
| 100.00 | 100.000002 | SAMPLE |
| 10.00 | 10.000001 | |
| 1.00 | 1.000000 | |
| 0.10 | 0.100000 | |
| 0.01 | 0.010000 | |
| | | |

4. 基準レベル

| | | | |
|-------------|--------|-----------------|--------|
| Frequency : | 100MHz | Span : | 100kHz |
| RBW : | 10kHz | RF Attenuator : | 10dB |
| VBW : | Auto | Log/Div. : | 10dB |

| Ref. Level [dBμV] | Measured [dBμV] | Remarks |
|-------------------|-----------------|---------------|
| 100 | 99.82 | SAMPLE |
| 90 | 89.82 | |
| 80 | 79.86 | |
| 70 | 69.90 | |
| 60 | 59.88 | |
| | | |


5. 入力減衰器

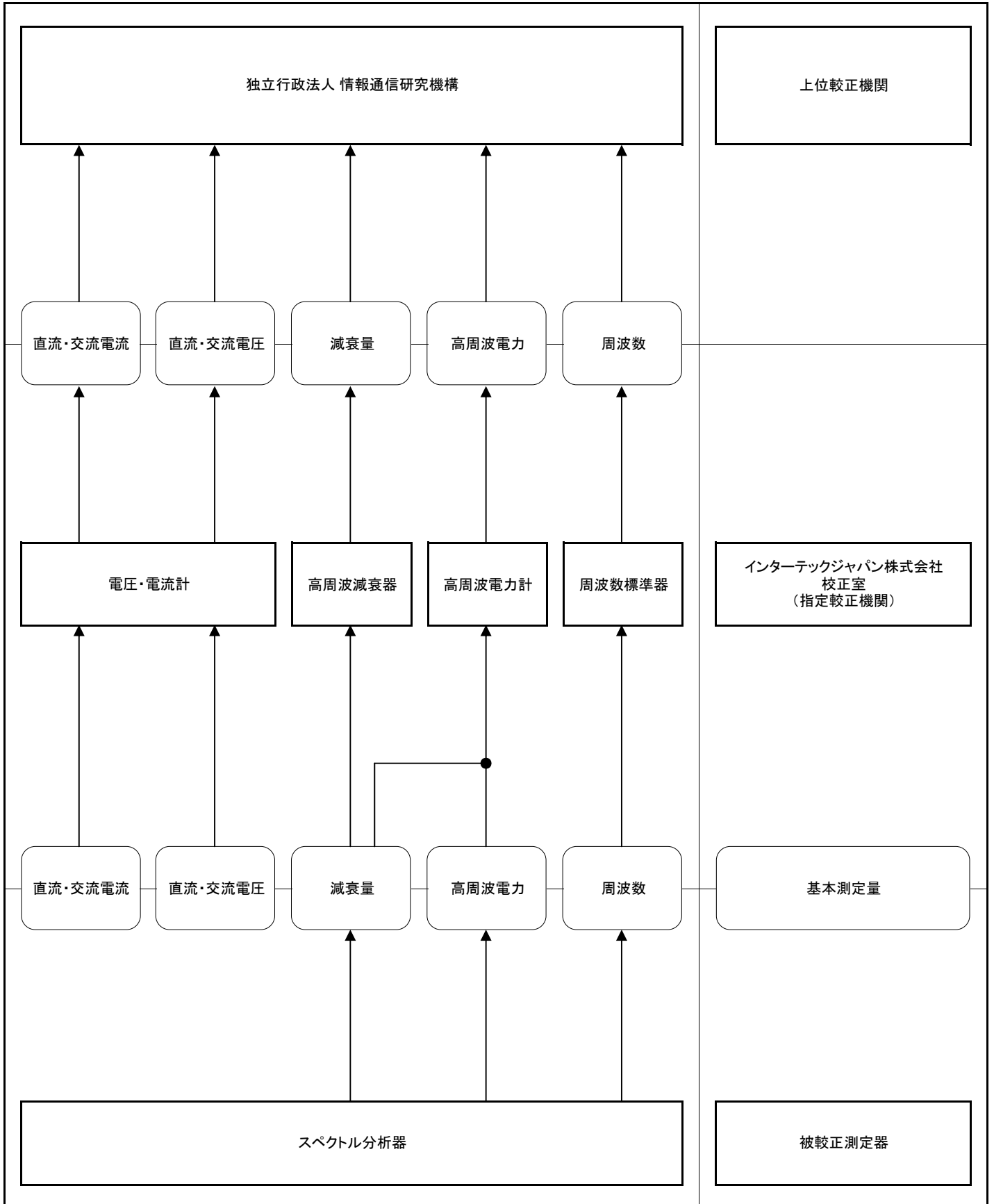
| | | | |
|-------------|--------|------------|--------|
| Frequency : | 100MHz | Span : | 100kHz |
| RBW : | 10kHz | Log/Div. : | 10dB |
| VBW : | Auto | | |

| Attenuator [dB] | Measured [dB] | Remarks |
|-----------------|---------------|---------------|
| 0 | 0.08 | SAMPLE |
| 10 | Ref | |
| 20 | 20.01 | |
| 30 | 29.95 | |
| 40 | 39.97 | |
| 50 | 49.91 | |
| | | |

6. 分解能帯域幅

| | |
|----------------|------|
| RF Attenuator: | Auto |
| Log/Div.: | 1dB |

| Frequency [MHz] | Resolution Bandwidth [Hz] | Resolution BW Setting [dB] | Measured [Hz] | Remarks | |
|-----------------|---------------------------|----------------------------|---------------|---|--|
| 50.00 | 3,000,000 | 3 | 3,070,000 |  | |
| 50.00 | 1,000,000 | 3 | 1,000,000 | | |
| 50.00 | 300,000 | 3 | 302,500 | | |
| 50.00 | 100,000 | 3 | 99,580 | | |
| 50.00 | 30,000 | 3 | 30,030 | | |
| 50.00 | 10,000 | 3 | 10,331 | | |
| 50.00 | 3,000 | 3 | 3,350 | | |
| 50.00 | 1,000 | 3 | 1,060 | | |
| 0.10 | 200 | 6 | 220 | | |
| 10.00 | 9,000 | 6 | 8,730 | | |
| 500.00 | 120,000 | 6 | 128,460 | | |
| 1500.00 | 1,000,000 | 6 | 960,000 | | |
| | | | | | |



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