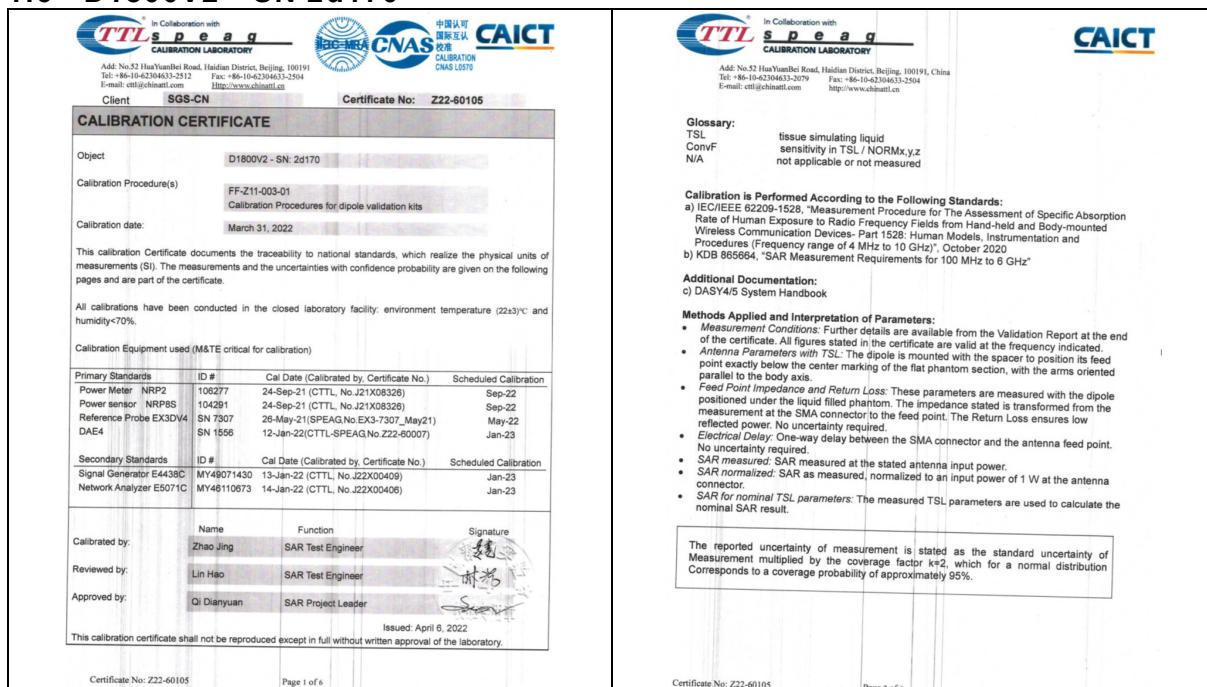


1.6 D1800V2 - SN 2d170



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<p>TTL In Collaboration with SPeAG CALIBRATION LABORATORY</p> <p>Add: No.53 HuaYanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304632-2079 Fax: +86-10-62304632-2504 E-mail: cttl@chinattl.com http://www.chinattl.cn</p> <p>Measurement Conditions DASY system configuration, as far as not given on page 1.</p> <table border="1"> <tr><td>DASY Version</td><td>DASY52</td><td>52.10.4</td></tr> <tr><td>Extrapolation</td><td>Advanced Extrapolation</td><td></td></tr> <tr><td>Phantom</td><td>Triple Flat Phantom 5.1C</td><td></td></tr> <tr><td>Distance Dipole Center - TSL</td><td>10 mm</td><td>with Spacer</td></tr> <tr><td>Zoom Scan Resolution</td><td>dx, dy, dz = 5 mm</td><td></td></tr> <tr><td>Frequency</td><td>1800 MHz ± 1 MHz</td><td></td></tr> </table> <p>Head TSL parameters The following parameters and calculations were applied.</p> <table border="1"> <tr><th></th><th>Temperature</th><th>Permittivity</th><th>Conductivity</th></tr> <tr><td>Nominal Head TSL parameters</td><td>22.0 °C</td><td>40.0</td><td>1.40 mho/m</td></tr> <tr><td>Measured Head TSL parameters</td><td>(22.0 ± 0.2) °C</td><td>40.6 ± 6 %</td><td>1.41 mho/m ± 6 %</td></tr> <tr><td>Head TSL temperature change during test</td><td><1.0 °C</td><td>---</td><td>---</td></tr> </table> <p>SAR result with Head TSL</p> <table border="1"> <tr><th>SAR averaged over 1 cm³ (1 g) of Head TSL</th><th>Condition</th></tr> <tr><td>SAR measured</td><td>250 mW input power 9.73 W/kg</td></tr> <tr><td>SAR for nominal Head TSL parameters</td><td>normalized to 1W 38.9 W/kg ± 18.8 % (k=2)</td></tr> <tr><th>SAR averaged over 10 cm³ (10 g) of Head TSL</th><th>Condition</th></tr> <tr><td>SAR measured</td><td>250 mW input power 5.11 W/kg</td></tr> <tr><td>SAR for nominal Head TSL parameters</td><td>normalized to 1W 20.4 W/kg ± 18.7 % (k=2)</td></tr> </table>	DASY Version	DASY52	52.10.4	Extrapolation	Advanced Extrapolation		Phantom	Triple Flat Phantom 5.1C		Distance Dipole Center - TSL	10 mm	with Spacer	Zoom Scan Resolution	dx, dy, dz = 5 mm		Frequency	1800 MHz ± 1 MHz			Temperature	Permittivity	Conductivity	Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m	Measured Head TSL parameters	(22.0 ± 0.2) °C	40.6 ± 6 %	1.41 mho/m ± 6 %	Head TSL temperature change during test	<1.0 °C	---	---	SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	SAR measured	250 mW input power 9.73 W/kg	SAR for nominal Head TSL parameters	normalized to 1W 38.9 W/kg ± 18.8 % (k=2)	SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	SAR measured	250 mW input power 5.11 W/kg	SAR for nominal Head TSL parameters	normalized to 1W 20.4 W/kg ± 18.7 % (k=2)	<p>CAICT</p> <p>TTL In Collaboration with SPeAG CALIBRATION LABORATORY</p> <p>Add: No.53 HuaYanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304632-2079 Fax: +86-10-62304632-2504 E-mail: cttl@chinattl.com http://www.chinattl.cn</p> <p>Appendix (Additional assessments outside the scope of CNAS L0570)</p> <p>Antenna Parameters with Head TSL</p> <table border="1"> <tr><td>Impedance, transformed to feed point</td><td>47.90- 2.54jΩ</td></tr> <tr><td>Return Loss</td><td>-29.4dB</td></tr> </table> <p>General Antenna Parameters and Design</p> <table border="1"> <tr><td>Electrical Delay (one direction)</td><td>1.116 ns</td></tr> </table> <p>After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.</p> <p>The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the standard. The overall dipole length is in accordance with the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.</p> <p>Additional EUT Data</p> <table border="1"> <tr><td>Manufactured by</td><td>SPeAG</td></tr> </table>	Impedance, transformed to feed point	47.90- 2.54jΩ	Return Loss	-29.4dB	Electrical Delay (one direction)	1.116 ns	Manufactured by	SPeAG
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<p>Certificate No: Z22-60105 Page 3 of 6</p> <p>TTL In Collaboration with SPeAG CALIBRATION LABORATORY</p> <p>Add: No.53 HuaYanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304632-2079 Fax: +86-10-62304632-2504 E-mail: cttl@chinattl.com http://www.chinattl.cn</p> <p>DASY5 Validation Report for Head TSL Test Laboratory: CAICT, Beijing, China Date: 2022-03-31</p> <p>DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN: 2d170 Communication System: UUD 0,2Km; Frequency: 1800 MHz; Duty Cycle: 1:1 Medium parameters used: $f = 1800$ MHz; $\sigma = 1.411$ S/m; $\epsilon_r = 40.62$; $\rho = 1000$ kg/m³ Phantom section: Right Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)</p> <p>DASY5 Configuration:</p> <ul style="list-style-type: none"> Probe: EX3DV4 - SN7307; ConvF(8.34, 8.34, 8.34) @ 1800 MHz; Calibrated: 2021-05-26 Sensor-Surface: 1.4mm (Mechanical Surface Detection) Electronics: DAE4 Sn1556; Calibrated: 2022-01-12 Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062 DASY52 52.10.4(155); SEMCAD X 14.6.14(7501) <p>Probe Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 98.14 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 18.2 W/kg SAR(1 g) = 9.73 W/kg; SAR(10 g) = 5.11 W/kg Smallest distance from peaks to all points 3 dB below = 10 mm Ratio of SAR at M2 to SAR at M1 = 54% Maximum value of SAR (measured) = 15.2 W/kg</p> <p>Figure: A 3D heatmap showing SAR distribution. The x, y, and z axes are labeled. A color scale from -17.12 dB to 0 dB is shown. The text "0 dB = 15.2 W/kg = 11.82 dBW/kg" is at the bottom.</p>	<p>Certificate No: Z22-60105 Page 4 of 6</p> <p>CAICT</p> <p>TTL In Collaboration with SPeAG CALIBRATION LABORATORY</p> <p>Add: No.53 HuaYanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304632-2079 Fax: +86-10-62304632-2504 E-mail: cttl@chinattl.com http://www.chinattl.cn</p> <p>Impedance Measurement Plot for Head TSL</p> <p>Y1: S11 Log Mag 1.0.00008/ Ref 0.00008 [F1] X1: 1.8000000 GHz 29.366 dB Y2: S11 Smith (W) Scale 1.0000 [F1 de] X2: 1.8000000 GHz 47.812 Ω -2.5446 Ω 34.748 Ω 1 Step 1.0 GHz Step 2 GHz</p>																																																						

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1.7 D1900V2 - SN 5d136

<div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">     Add No.52 HuaYuanBei Road, Haidian District, Beijing, 100191 Tel: +86-10-62304613-2117 E-mail: en@caict.ac.cn http://www.caict.ac.cn Client SGS-CN Certificate No: 222-60185 </p> <p>CALIBRATION CERTIFICATE</p> <p>Object: D1900V2 - SN: 5d136</p> <p>Calibration Procedure(s): FF-Z11-003-01 Calibration Procedures for dipole validation kits</p> <p>Calibration date: June 7, 2022</p> <p>This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.</p> <p>All calibrations have been conducted in the closed laboratory facility, environment temperature (22±3)°C and humidity<70%.</p> <p>Calibration Equipment used (M&TE critical for calibration)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Primary Standards</th> <th>ID #</th> <th>Cal Date (Calibrated by, Certificate No.)</th> <th>Scheduled Calibration</th> </tr> </thead> <tbody> <tr> <td>Power sensor NRP2</td> <td>105277</td> <td>24-Sep-21 (CTTL No.J22X0409)</td> <td>Sep-22</td> </tr> <tr> <td>Power sensor NRP85</td> <td>104291</td> <td>24-Sep-21 (CTTL No.J21X0520)</td> <td>Sep-22</td> </tr> <tr> <td>Reference Probe EX3DV4</td> <td>SN 7464</td> <td>26-Jan-22(SPEAG No. EX3-7464, Jan22)</td> <td>Jan-23</td> </tr> <tr> <td>DAE4</td> <td>SN 1558</td> <td>12-Jan-22(CTTU-SPEAG No.222-60007)</td> <td>Jan-23</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Secondary Standards</th> <th>ID #</th> <th>Cal Date (Calibrated by, Certificate No.)</th> <th>Scheduled Calibration</th> </tr> </thead> <tbody> <tr> <td>Signal Generator E4438C</td> <td>MY49071430</td> <td>13-Jan-22 (CTTL No.J22X0409)</td> <td>Jan-23</td> </tr> <tr> <td>Network Analyzer E5071C</td> <td>MY48110673</td> <td>14-Jan-22 (CTTL No.J22X0406)</td> <td>Jan-23</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Calibrated by:</th> <th>Name</th> <th>Function</th> <th>Signature</th> </tr> </thead> <tbody> <tr> <td>Zhao Jing</td> <td>SAR Test Engineer</td> <td></td> <td></td> </tr> <tr> <td>Reviewed by:</td> <td>Lin Hao</td> <td>SAR Test Engineer</td> <td></td> </tr> <tr> <td>Approved by:</td> <td>Qi Dianyuan</td> <td>SAR Project Leader</td> <td></td> </tr> </tbody> </table> <p>Issued: June 13, 2022</p> <p>This calibration certificate shall not be reproduced except in full without written approval of the laboratory.</p> <p>Certificate No: 222-60185 Page 1 of 6</p> </div> <div style="width: 50%;"> <div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">  Add No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304613-2117 E-mail: en@caict.ac.cn http://www.caict.ac.cn </p> <p>CALIBRATION In Collaboration with TTL SPEAG CALIBRATION LABORATORY</p> <p>CAICT</p> <p>Glossary:</p> <p>TSL tissue simulating liquid ConvF sensitivity in TSL / NORMLy.z N/A not applicable or not measured</p> <p>Calibration is Performed According to the Following Standards:</p> <p>a) IEC/IEEE 62209-1528, "Measurement Procedure for the Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-held and Body-mounted Personal Communication Devices- Part 1528: Human Models, Instrumentation and Procedure (Frequency range of 4 MHz to 10 GHz)", October 2020</p> <p>b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"</p> <p>Additional Documentation:</p> <p>c) DASY4.5 System Handbook</p> <p>Methods Applied and Interpretation of Parameters:</p> <ul style="list-style-type: none"> Measurement Conditions: Further details are available from the Validation Report at the end of the document. All figures and tables are valid at the frequency indicated. Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis. Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transferred from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required. Electrical Delay: The delay between the SMA connector and the antenna feed point. No uncertainty required. SAR measured: SAR measured at the stated antenna input power. SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna feed point. SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result. <p>The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.</p> <p>Certificate No: 222-60185 Page 2 of 6</p> </div> </div>	Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration	Power sensor NRP2	105277	24-Sep-21 (CTTL No.J22X0409)	Sep-22	Power sensor NRP85	104291	24-Sep-21 (CTTL No.J21X0520)	Sep-22	Reference Probe EX3DV4	SN 7464	26-Jan-22(SPEAG No. EX3-7464, Jan22)	Jan-23	DAE4	SN 1558	12-Jan-22(CTTU-SPEAG No.222-60007)	Jan-23	Secondary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration	Signal Generator E4438C	MY49071430	13-Jan-22 (CTTL No.J22X0409)	Jan-23	Network Analyzer E5071C	MY48110673	14-Jan-22 (CTTL No.J22X0406)	Jan-23	Calibrated by:	Name	Function	Signature	Zhao Jing	SAR Test Engineer			Reviewed by:	Lin Hao	SAR Test Engineer		Approved by:	Qi Dianyuan	SAR Project Leader	
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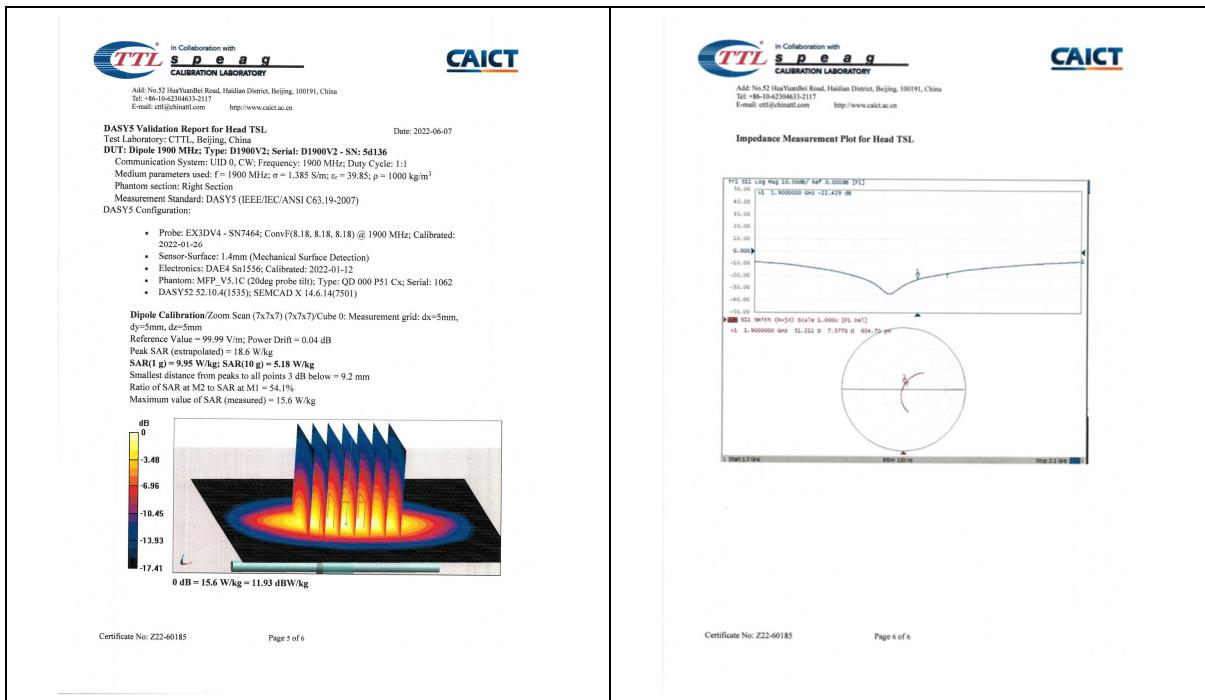


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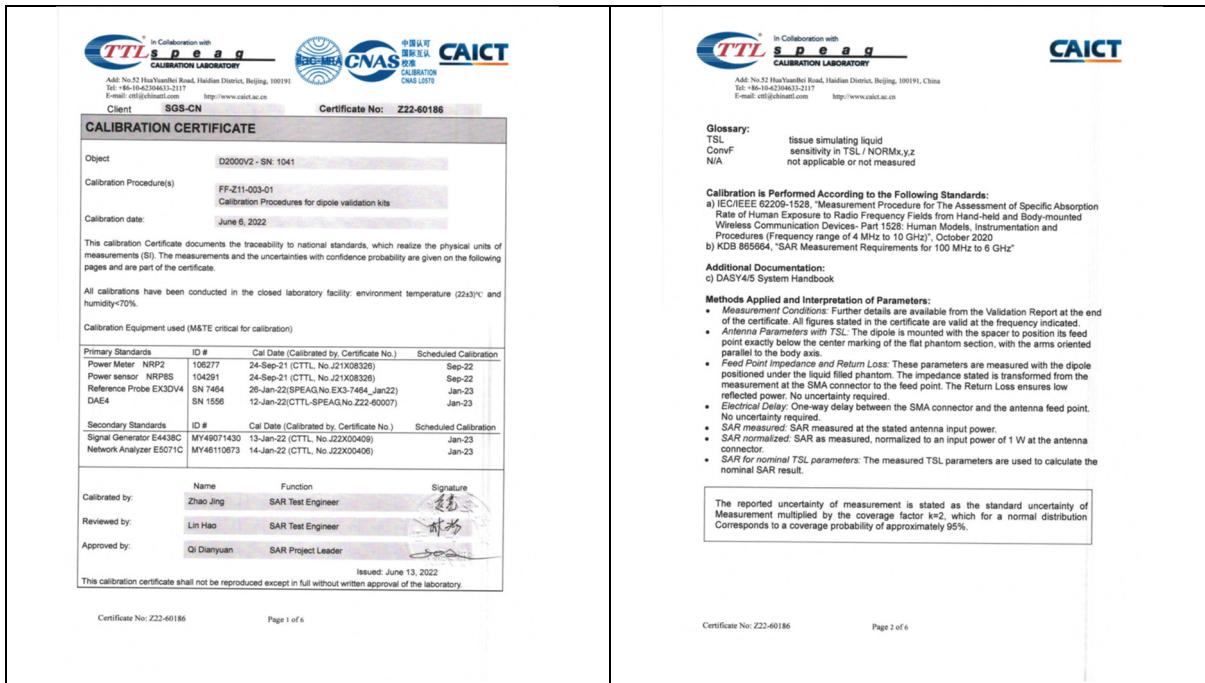
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1.8 D2000V2 - SN 1041



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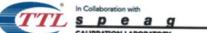
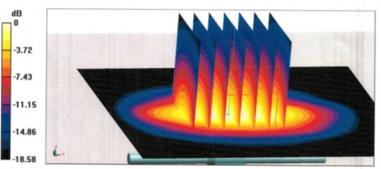
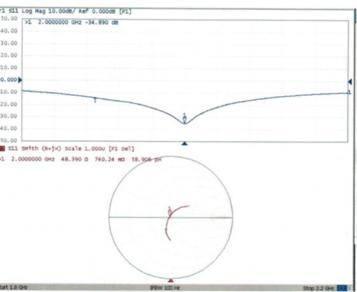
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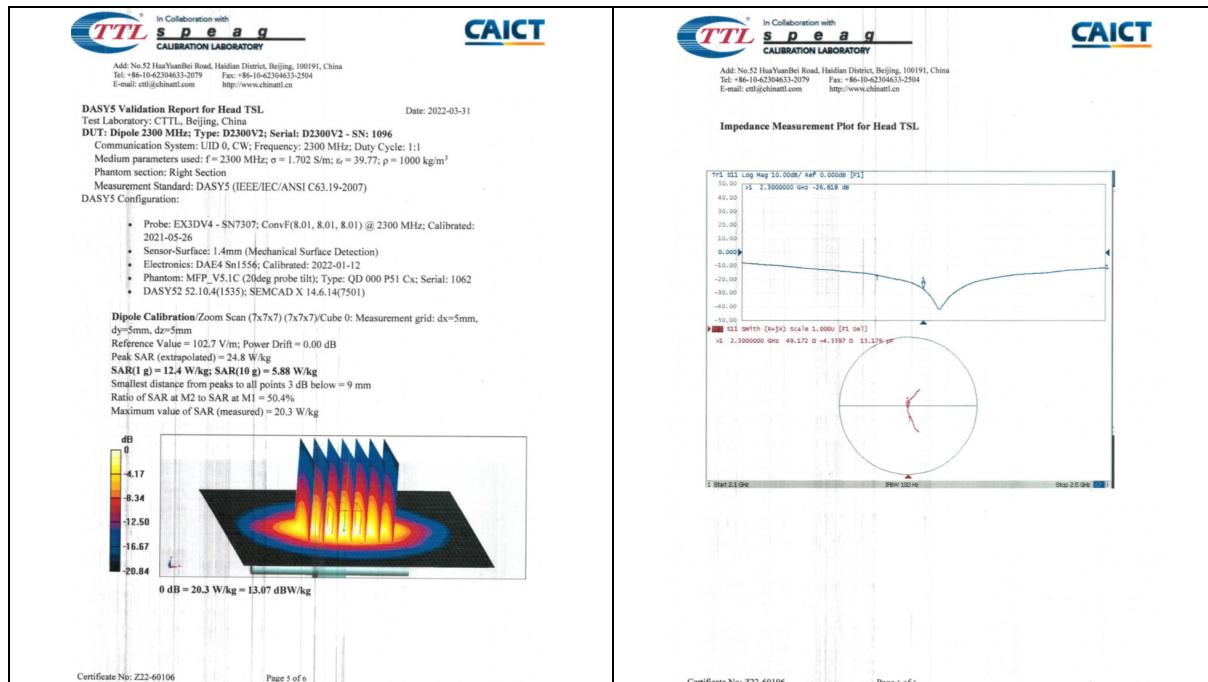
1.9 D2300V2 - SN 1096

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The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.</p> <p>All calibrations have been conducted in the closed laboratory facility: environment temperature (22±3)°C and humidity >70%.</p> <p>Calibration Equipment used (M&TE critical for calibration)</p> <table border="1"> <tr> <th>Primary Standards</th> <th>ID #</th> <th>Cal Date (Calibrated by, Certificate No.)</th> <th>Scheduled Calibration</th> </tr> <tr> <td>Power Meter NRP2</td> <td>106277</td> <td>24-Sep-21 (CTTL, No. J21X08326)</td> <td>Sep-22</td> </tr> <tr> <td>Power sensor NRP85</td> <td>104291</td> <td>24-Sep-21 (CTTL, No. J21X08326)</td> <td>Sep-22</td> </tr> <tr> <td>Reference Probe EX3DV4</td> <td>SN 7307</td> <td>26-May-21 (SPEAG No. EX3-7307, May21)</td> <td>May-22</td> </tr> <tr> <td>DAE4</td> <td>SN 1556</td> <td>12-Jan-22 (CTTL-SPEAG No. Z22-60007)</td> <td>Jan-23</td> </tr> <tr> <th>Secondary Standards</th> <th>ID #</th> <th>Cal Date (Calibrated by, Certificate No.)</th> <th>Scheduled Calibration</th> </tr> <tr> <td>Signal Generator E4438C</td> <td>MY49071430</td> <td>13-Jan-22 (CTTL, No. J22X00409)</td> <td>Jan-23</td> </tr> <tr> <td>Network Analyzer E5071C</td> <td>MY46110673</td> <td>14-Jan-22 (CTTL, No. J22X00408)</td> <td>Jan-23</td> </tr> </table> <table border="1"> <tr> <th>Calibrated by:</th> <th>Name</th> <th>Function</th> <th>Signature</th> </tr> <tr> <td>Zhao Jing</td> <td>SAR Test Engineer</td> <td></td> <td></td> </tr> <tr> <th>Reviewed by:</th> <td>Lin Hao</td> <td>SAR Test Engineer</td> <td></td> </tr> <tr> <th>Approved by:</th> <td>Qi Dianyuan</td> <td>SAR Project Leader</td> <td></td> </tr> </table> <p>Issued: April 6, 2022</p> <p>This calibration certificate shall not be reproduced except in full without written approval of the laboratory.</p>		Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration	Power Meter NRP2	106277	24-Sep-21 (CTTL, No. J21X08326)	Sep-22	Power sensor NRP85	104291	24-Sep-21 (CTTL, No. J21X08326)	Sep-22	Reference Probe EX3DV4	SN 7307	26-May-21 (SPEAG No. EX3-7307, May21)	May-22	DAE4	SN 1556	12-Jan-22 (CTTL-SPEAG No. Z22-60007)	Jan-23	Secondary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration	Signal Generator E4438C	MY49071430	13-Jan-22 (CTTL, No. J22X00409)	Jan-23	Network Analyzer E5071C	MY46110673	14-Jan-22 (CTTL, No. J22X00408)	Jan-23	Calibrated by:	Name	Function	Signature	Zhao Jing	SAR Test Engineer			Reviewed by:	Lin Hao	SAR Test Engineer		Approved by:	Qi Dianyuan	SAR Project Leader		   <p>In Collaboration with SGS CALIBRATION LABORATORY Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2064 E-mail: ctli@chinattl.com http://www.chinattl.com</p> <p>Glossary:</p> <p>TSL tissue simulating liquid ConvF sensitivity in TSL / NORMx,y,z N/A not applicable or not measured</p> <p>Calibration is Performed According to the Following Standards:</p> <ul style="list-style-type: none"> a) IEC/IEEE 62209-1528, "Measurement Procedure for the Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-held and Body-mounted Wireless Communication Devices - Part 1528: Human Models, Instrumentation and Procedures (Frequency range of 4 MHz to 10 GHz)", October 2020 b) KDB 655664, "SAR Measurement Requirements for 100 MHz to 6 GHz" <p>Additional Documentation:</p> <ul style="list-style-type: none"> c) DASY4/S System Handbook <p>Methods Applied and Interpretation of Parameters:</p> <ul style="list-style-type: none"> Model Assumptions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated. Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis. Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measured value at the connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required. Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required. SAR measured: SAR measured at the stated antenna input power. SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector. SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result. <p>The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.</p>												
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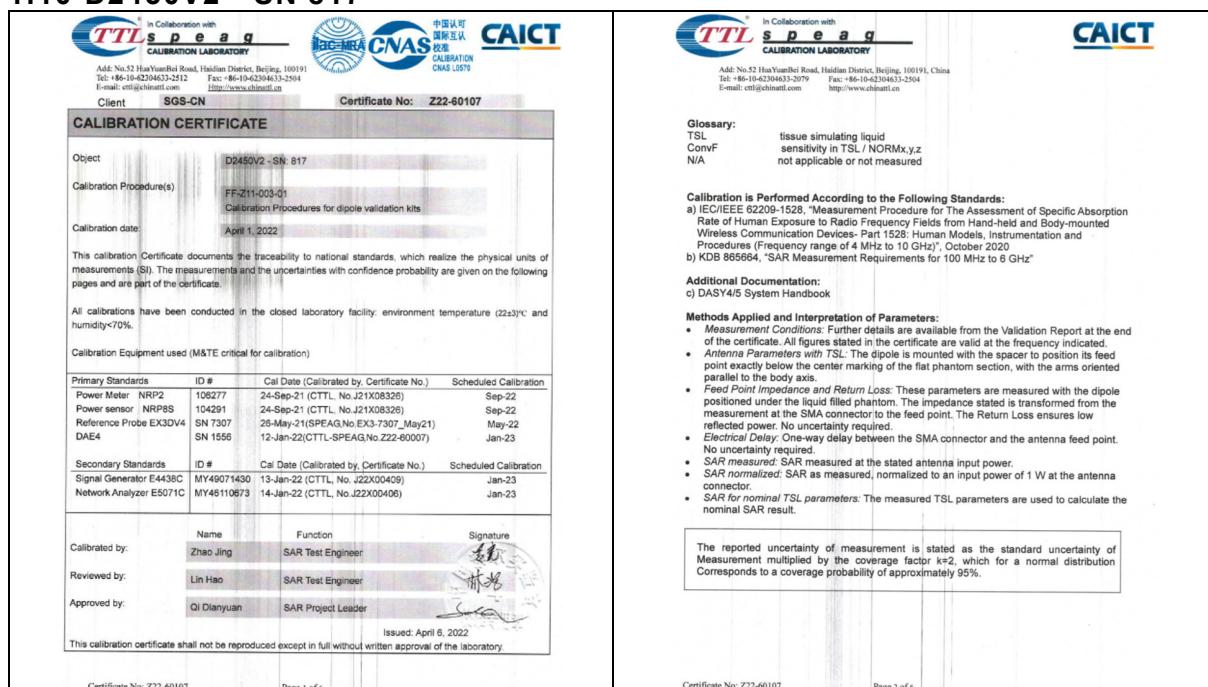
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