

## ANNEX D: Probe Calibration Certificate (SN: 3677)

| T  | In Collaboratio                                  |   | 中国认同国际互认               |
|--|--|---|------------------------|
| Tel: +86-10-62304  | uanBei Road, Haidian Dist<br>633-2512 Fax: +86-1 | rict, Beijing, 100191, China<br>0-62304633-2504                 | CALIBRAT<br>CNAS L05   |
| E-mail: cttl@china   | hanghai)   | w.chinattl.cn   | 704 00000              |
| A REAL PROPERTY AND A REAL |  | Certificate No:   | Z21-60285              |
| CALIBRATION C  | ERTIFICATE                                       |   |                        |
| Object   | EX3DV4 -   | SN : 3677   |                        |
| Calibration Procedure(s)   | FF-Z11-004                                       | 4.00  |                        |
|  |  | Procedures for Dosimetric E-field Probes                        |                        |
| Calibration date:  | August 12,                                       | 2021  |                        |
| All calibrations have been<br>humidity<70%.<br>Calibration Equipment used  |  | closed laboratory facility: environment t                       | emperature(22±3)°C and |
| Primary Standards  | ID#  | Cal Date(Calibrated by, Certificate No.)                        | Scheduled Calibration  |
| Power Meter NRP2   | 101919   | 15-Jun-21(CTTL, No.J21X04466)                                   | Jun-22                 |
| Power sensor NRP-Z91   | 101547   | 15-Jun-21(CTTL, No.J21X04466)                                   | Jun-22                 |
| Power sensor NRP-Z91   | 101548   | 15-Jun-21(CTTL, No.J21X04466)                                   | Jun-22                 |
| Reference 10dBAttenuate  | or 18N50W-10dB                                   |   | Feb-22                 |
| Reference 20dBAttenuate  | or 18N50W-20dB                                   |   | Feb-22                 |
| Reference Probe EX3DV  | 4 SN 3617  | 27-Jan-21(SPEAG, No.EX3-3617_Jan21                              |                        |
| DAE4   | SN 1556  | 15-Jan-21(SPEAG, No.DAE4-1556_Jan2                              |                        |
| Secondary Standards  | ID#  | Cal Date(Calibrated by, Certificate No.)                        | Scheduled Calibration  |
| SignalGenerator MG3700   |  | 16-Jun-21(CTTL, No.J21X04467)                                   | Jun-22                 |
| Network Analyzer E50710  | C MY46110673                                     | 21-Jan-21(CTTL, No.J20X00515)                                   | Jan-22                 |
|  | Name   | Function  | Signature              |
| alibrated by:  | Yu Zongying                                      | SAR Test Engineer   | And                    |
| Reviewed by:   | Lin Hao  | SAR Test Engineer   | 林治                     |
| Approved by:   | Qi Dianyuan                                      | SAR Project Leader  | 201                    |
|  |  |   |                        |
|  |  | Issued: August<br>except in full without written approval of th | 14, 2021               |

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#### Glossary:

| TSL            | tissue simulating liquid   |
|----------------|--|
| NORMx,y,z      | sensitivity in free space  |
| ConvF          | sensitivity in TSL / NORMx,y,z   |
| DCP            | diode compression point  |
| CF             | crest factor (1/duty_cycle) of the RF signal   |
| A.B.C.D        | modulation dependent linearization parameters  |
| Polarization Φ | Φ rotation around probe axis   |
| Polarization θ | $\theta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), i $\theta=0$ is normal to probe axis |

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010

d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

- Methods Applied and Interpretation of Parameters:
- NORMx, y, z: Assessed for E-field polarization θ=0 (f≤900MHz in TEM-cell; f>1800MHz: waveguide). NORMx, y, z are only intermediate values, i.e., the uncertainties of NORMx, y, z does not effect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z\* frequency\_response (see Frequency Response Chart). This
  linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the
  frequency response is included in the stated uncertainty of ConvF.
- DCPx, y, z: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- Ax, y, z; Bx, y, z; Cx, y, z; VRx, y, z: A, B, C are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f≤800MHz) and inside waveguide using analytical field distributions based on power measurements for f >800MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty valued are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z\* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from±50MHz to±100MHz.
- Spherical isotropy (3D deviation from isotropy): In a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the
  probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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### DASY/EASY – Parameters of Probe: EX3DV4 – SN:3677

### **Basic Calibration Parameters**

|   | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|---|----------|----------|----------|-----------|
| Norm(µV/(V/m) <sup>2</sup> ) <sup>A</sup> | 0.41     | 0.46     | 0.40     | ±10.0%    |
| DCP(mV) <sup>B</sup>                      | 99.3     | 101.9    | 101.5    |           |

### **Modulation Calibration Parameters**

| UID | Communication<br>System Name |   | A<br>dB | B<br>dBõV | C   | D<br>dB | VR<br>mV | Unc <sup>E</sup><br>( <i>k</i> =2) |
|-----|------------------------------|---|---------|-----------|-----|---------|----------|------------------------------------|
| 0   | CW                           | X | 0.0     | 0.0       | 1.0 | 0.00    | 158.2    | ±2.0%                              |
|     |                              | Y | 0.0     | 0.0       | 1.0 |         | 170.4    | 7                                  |
|     |                              | z | 0.0     | 0.0       | 1.0 | _       | 156.9    | _                                  |

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%.

<sup>A</sup> The uncertainties of Norm X, Y, Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Page 4).

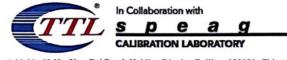
<sup>B</sup> Numerical linearization parameter: uncertainty not required.

<sup>E</sup> Uncertainly is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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### DASY/EASY – Parameters of Probe: EX3DV4 – SN:3677

### Calibration Parameter Determined in Head Tissue Simulating Media

| f [MHz] <sup>C</sup> | Relative<br>Permittivity <sup>F</sup> | Conductivity<br>(S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup><br>(mm) | Unct.<br>( <i>k</i> =2) |
|----------------------|---------------------------------------|------------------------------------|---------|---------|---------|--------------------|----------------------------|-------------------------|
| 750                  | 41.9                                  | 0.89                               | 9.64    | 9.64    | 9.64    | 0.40               | 0.80                       | ±12.1%                  |
| 835                  | 41.5                                  | 0.90                               | 9.30    | 9.30    | 9.30    | 0.16               | 1.29                       | ±12.1%                  |
| 1750                 | 40.1                                  | 1.37                               | 8.22    | 8.22    | 8.22    | 0.24               | 1.00                       | ±12.1%                  |
| 1900                 | 40.0                                  | 1.40                               | 7.88    | 7.88    | 7.88    | 0.24               | 1.10                       | ±12.1%                  |
| 2000                 | 40.0                                  | 1.40                               | 7.96    | 7.96    | 7.96    | 0.21               | 1.17                       | ±12.1%                  |
| 2300                 | 39.5                                  | 1.67                               | 7.67    | 7.67    | 7.67    | 0.66               | 0.68                       | ±12.1%                  |
| 2450                 | 39.2                                  | 1.80                               | 7.50    | 7.50    | 7.50    | 0.66               | 0.70                       | ±12.1%                  |
| 2600                 | 39.0                                  | 1.96                               | 7.25    | 7.25    | 7.25    | 0.62               | 0.73                       | ±12.1%                  |
| 3300                 | 38.2                                  | 2.71                               | 7.00    | 7.00    | 7.00    | 0.45               | 0.94                       | ±13.3%                  |
| 3500                 | 37.9                                  | 2.91                               | 6.92    | 6.92    | 6.92    | 0.45               | 0.98                       | ±13.3%                  |
| 3700                 | 37.7                                  | 3.12                               | 6.71    | 6.71    | 6.71    | 0.45               | 1.04                       | ±13.3%                  |
| 3900                 | 37.5                                  | 3.32                               | 6.62    | 6.62    | 6.62    | 0.40               | 1.25                       | ±13.3%                  |
| 4100                 | 37.2                                  | 3.53                               | 6.66    | 6.66    | 6.66    | 0.30               | 1.38                       | ±13.3%                  |
| 4400                 | 36.9                                  | 3.84                               | 6.43    | 6.43    | 6.43    | 0.35               | 1.35                       | ±13.3%                  |
| 4600                 | 36.7                                  | 4.04                               | 6.35    | 6.35    | 6.35    | 0.50               | 1.13                       | ±13.3%                  |
| 4800                 | 36.4                                  | 4.25                               | 6.30    | 6.30    | 6.30    | 0.45               | 1.25                       | ±13.3%                  |
| 4950                 | 36.3                                  | 4.40                               | 6.13    | 6.13    | 6.13    | 0.45               | 1.25                       | ±13.3%                  |
| 5250                 | 35.9                                  | 4.71                               | 5.45    | 5.45    | 5.45    | 0.50               | 1.30                       | ±13.3%                  |
| 5600                 | 35.5                                  | 5.07                               | 5.00    | 5.00    | 5.00    | 0.60               | 1.15                       | ±13.3%                  |
| 5750                 | 35.4                                  | 5.22                               | 5.04    | 5.04    | 5.04    | 0.55               | 1.26                       | ±13.3%                  |

<sup>c</sup> Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequency below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. <sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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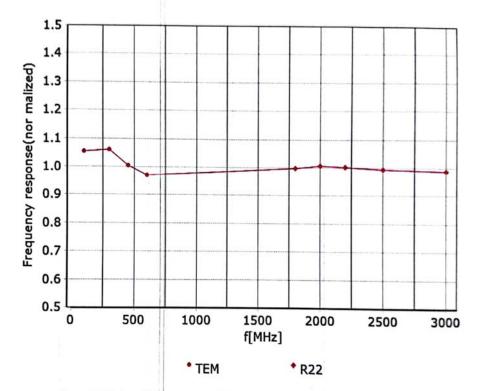




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## **Frequency Response of E-Field** (TEM-Cell: ifi110 EXX, Waveguide: R22)

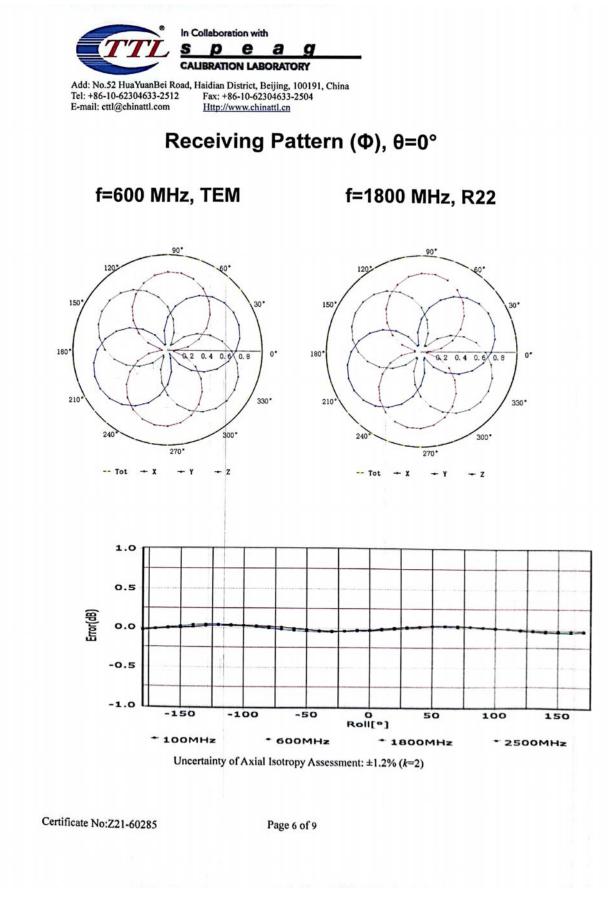


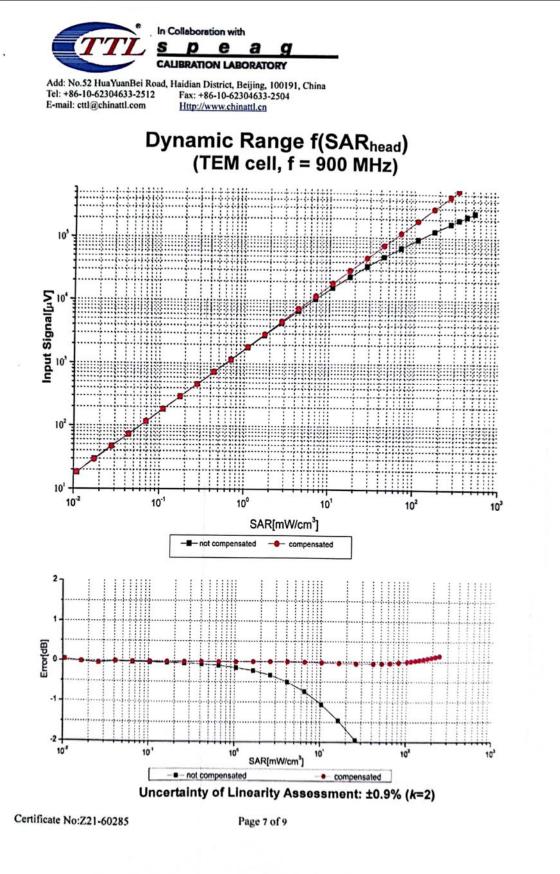
Uncertainty of Frequency Response of E-field: ±7.4% (k=2)

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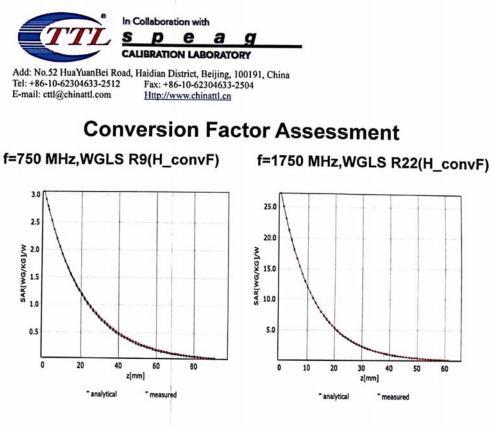
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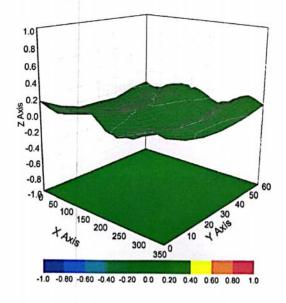








# **Deviation from Isotropy in Liquid**



Uncertainty of Spherical Isotropy Assessment: ±3.2% (k=2)

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# DASY/EASY – Parameters of Probe: EX3DV4 – SN:3677

### Other Probe Parameters

| Sensor Arrangement                            | Triangular |
|---|------------|
| Connector Angle (°)                           | 117.4      |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disable    |
| Probe Overall Length                          | 337mm      |
| Probe Body Diameter                           | 10mm       |
| Tip Length                                    | 9mm        |
| Tip Diameter                                  | 2.5mm      |
| Probe Tip to Sensor X Calibration Point       | 1mm        |
| Probe Tip to Sensor Y Calibration Point       | 1mm        |
| Probe Tip to Sensor Z Calibration Point       | 1mm        |
| Recommended Measurement Distance from Surface | 1.4mm      |

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# ANNEX E: Probe Calibration Certificate (SN: 7543)

|   | CERTIFICATE  |   |   |
|---|--|---|---|
| Object  | EX3DV4 -   | SN : 7543   |   |
| Calibration Procedure(s)  | FF 744 00  |   |   |
|   | FF-Z11-004   | 4-02<br>Procedures for Dosimetric E-field Probes  |   |
| 0-13  | Calibration  | Procedures for Dosimetric E-field Probes  |   |
| Calibration date:   | December   | 28, 2021  |   |
| humidity<70%.<br>Calibration Equipment use<br>Primary Standards   | d (M&TE critical for ca  |   | emperature(22±3)℃ and   |
| Power Meter NRP2  | ID#  | Cal Date(Calibrated by, Certificate No.)  | Scheduled Calibration   |
|   |  |   |   |
|   | 101919   | 15-Jun-21(CTTL, No.J21X04466)   | Jun-22  |
| Power sensor NRP-Z91  | 101547   | 15-Jun-21(CTTL, No.J21X04466)   | Jun-22  |
| Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 10dBAttenua   | 101547<br>101548<br>ator 18N50W-10dB   | 15-Jun-21(CTTL, No.J21X04466)<br>15-Jun-21(CTTL, No.J21X04466)  | Jun-22<br>Jun-22  |
| Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 10dBAttenua<br>Reference 20dBAttenua  | 101547<br>101548<br>ator 18N50W-10dB<br>ator 18N50W-20dB   | 15-Jun-21(CTTL, No.J21X04466)<br>15-Jun-21(CTTL, No.J21X04466)<br>10-Feb-20(CTTL, No.J20X00525)   | Jun-22<br>Jun-22<br>Feb-22  |
| Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 10dBAttenua<br>Reference 20dBAttenua<br>Reference Probe EX3D  | 101547<br>101548<br>ator 18N50W-10dB<br>ator 18N50W-20dB<br>V4 SN 3617   | 15-Jun-21(CTTL, No.J21X04466)<br>15-Jun-21(CTTL, No.J21X04466)<br>10-Feb-20(CTTL, No.J20X00525)<br>10-Feb-20(CTTL, No.J20X00526)<br>27-Jan-21(SPEAG, No.EX3-3617_Jan21)   | Jun-22<br>Jun-22<br>Feb-22<br>Feb-22<br>) Jan-22  |
| Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 10dBAttenua<br>Reference 20dBAttenua  | 101547<br>101548<br>ator 18N50W-10dB<br>ator 18N50W-20dB   | 15-Jun-21(CTTL, No.J21X04466)<br>15-Jun-21(CTTL, No.J21X04466)<br>10-Feb-20(CTTL, No.J20X00525)   | Jun-22<br>Jun-22<br>Feb-22<br>Feb-22<br>) Jan-22  |
| Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 10dBAttenua<br>Reference 20dBAttenua<br>Reference Probe EX3D<br>DAE4  | 101547<br>101548<br>ator 18N50W-10dB<br>ator 18N50W-20dB<br>V4 SN 3617<br>SN 1555  | 15-Jun-21(CTTL, No.J21X04466)<br>15-Jun-21(CTTL, No.J21X04466)<br>10-Feb-20(CTTL, No.J20X00525)<br>10-Feb-20(CTTL, No.J20X00526)<br>27-Jan-21(SPEAG, No.EX3-3617_Jan21<br>20-Aug-21(SPEAG, No.DAE4-1555_Aug   | Jun-22<br>Jun-22<br>Feb-22<br>Feb-22<br>) Jan-22<br>21/2) Aug-22  |
| Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 10dBAttenua<br>Reference 20dBAttenua<br>Reference Probe EX3D  | 101547<br>101548<br>ator 18N50W-10dB<br>ator 18N50W-20dB<br>V4 SN 3617<br>SN 1555  | 15-Jun-21(CTTL, No.J21X04466)<br>15-Jun-21(CTTL, No.J21X04466)<br>10-Feb-20(CTTL, No.J20X00525)<br>10-Feb-20(CTTL, No.J20X00526)<br>27-Jan-21(SPEAG, No.EX3-3617_Jan21<br>20-Aug-21(SPEAG, No.DAE4-1555_Aug<br>Cal Date(Calibrated by, Certificate No.)   | Jun-22<br>Jun-22<br>Feb-22<br>Feb-22<br>) Jan-22<br>21/2) Aug-22<br>Scheduled Calibration                     |
| Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 10dBAttenua<br>Reference 20dBAttenua<br>Reference Probe EX3D<br>DAE4<br>Secondary Standards   | 101547<br>101548<br>ator 18N50W-10dB<br>ator 18N50W-20dB<br>V4 SN 3617<br>SN 1555<br>ID #<br>200A 6201052605   | 15-Jun-21(CTTL, No.J21X04466)<br>15-Jun-21(CTTL, No.J21X04466)<br>10-Feb-20(CTTL, No.J20X00525)<br>10-Feb-20(CTTL, No.J20X00526)<br>27-Jan-21(SPEAG, No.EX3-3617_Jan21<br>20-Aug-21(SPEAG, No.DAE4-1555_Aug<br>Cal Date(Calibrated by, Certificate No.)<br>16-Jun-21(CTTL, No.J21X04467)  | Jun-22<br>Jun-22<br>Feb-22<br>Feb-22<br>) Jan-22<br>21/2) Aug-22<br>Scheduled Calibration<br>Jun-22           |
| Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 10dBAttenua<br>Reference 20dBAttenua<br>Reference Probe EX3D<br>DAE4<br>Secondary Standards<br>SignalGenerator MG370<br>Network Analyzer E507 | 101547<br>101548<br>ator 18N50W-10dB<br>18N50W-20dB<br>V4 SN 3617<br>SN 1555<br>ID #<br>200A 6201052605  | 15-Jun-21(CTTL, No.J21X04466)<br>15-Jun-21(CTTL, No.J21X04466)<br>10-Feb-20(CTTL, No.J20X00525)<br>10-Feb-20(CTTL, No.J20X00526)<br>27-Jan-21(SPEAG, No.EX3-3617_Jan21<br>20-Aug-21(SPEAG, No.DAE4-1555_Aug<br>Cal Date(Calibrated by, Certificate No.)   | Jun-22<br>Jun-22<br>Feb-22<br>Feb-22<br>) Jan-22<br>21/2) Aug-22<br>Scheduled Calibration<br>Jun-22<br>Jan-22 |
| Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 10dBAttenua<br>Reference 20dBAttenua<br>Reference Probe EX3D<br>DAE4<br>Secondary Standards<br>SignalGenerator MG370<br>Network Analyzer E507 | 101547<br>101548<br>ator 18N50W-10dB<br>ator 18N50W-20dB<br>V4 SN 3617<br>SN 1555<br>ID #<br>00A 6201052605<br>1C MY46110673   | 15-Jun-21(CTTL, No.J21X04466)<br>15-Jun-21(CTTL, No.J21X04466)<br>10-Feb-20(CTTL, No.J20X00525)<br>10-Feb-20(CTTL, No.J20X00526)<br>27-Jan-21(SPEAG, No.EX3-3617_Jan21<br>20-Aug-21(SPEAG, No.DAE4-1555_Aug<br>Cal Date(Calibrated by, Certificate No.)<br>16-Jun-21(CTTL, No.J21X04467)<br>21-Jan-21(CTTL, No.J20X00515)                                   | Jun-22<br>Jun-22<br>Feb-22<br>Feb-22<br>) Jan-22<br>21/2) Aug-22<br>Scheduled Calibration<br>Jun-22           |
| Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 10dBAttenua<br>Reference 20dBAttenua<br>Reference Probe EX3D<br>DAE4<br>Secondary Standards<br>SignalGenerator MG370<br>Network Analyzer E507 | 101547           101548           ator           18N50W-10dB           18N50W-20dB           V4           SN 3617           SN 1555           ID #           00A           6201052605           1C           MY46110673           Name | 15-Jun-21(CTTL, No.J21X04466)<br>15-Jun-21(CTTL, No.J21X04466)<br>10-Feb-20(CTTL, No.J20X00525)<br>10-Feb-20(CTTL, No.J20X00526)<br>27-Jan-21(SPEAG, No.EX3-3617_Jan21<br>20-Aug-21(SPEAG, No.DAE4-1555_Aug<br>Cal Date(Calibrated by, Certificate No.)<br>16-Jun-21(CTTL, No.J21X04467)<br>21-Jan-21(CTTL, No.J20X00515)<br>Function                       | Jun-22<br>Jun-22<br>Feb-22<br>Feb-22<br>) Jan-22<br>21/2) Aug-22<br>Scheduled Calibration<br>Jun-22<br>Jan-22 |
| Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 10dBAttenua<br>Reference 20dBAttenua<br>Reference Probe EX3D<br>DAE4<br>Secondary Standards<br>SignalGenerator MG370                          | 101547         101548         101548         18N50W-10dB         18N50W-20dB         V4         SN 3617         SN 1555         ID #         00A         6201052605         IC         MY46110673         Name         Yu Zongying     | 15-Jun-21(CTTL, No.J21X04466)<br>15-Jun-21(CTTL, No.J21X04466)<br>10-Feb-20(CTTL, No.J20X00525)<br>10-Feb-20(CTTL, No.J20X00526)<br>27-Jan-21(SPEAG, No.EX3-3617_Jan21<br>20-Aug-21(SPEAG, No.DAE4-1555_Aug)<br>Cal Date(Calibrated by, Certificate No.)<br>16-Jun-21(CTTL, No.J21X04467)<br>21-Jan-21(CTTL, No.J20X00515)<br>Function<br>SAR Test Engineer | Jun-22<br>Jun-22<br>Feb-22<br>Feb-22<br>) Jan-22<br>21/2) Aug-22<br>Scheduled Calibration<br>Jun-22<br>Jan-22 |

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