## Appendix C for KSCR2207001168AT

## Calibration certificate

## 1．Dipole

D2450V2－SN 817（2022／04／01）
2．DAE
DAE4－SN 1305（2022／04／27）
3．Probe
EX3DV4－SN 7346（2022／03／30）

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## 1．Dipole

## D2450V2－SN 817



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| :--- | :--- | :--- | :--- |

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Calibration is Performed According to the Following Standards：
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 865664 ，＂SAR Measurement Requirements for 100 MHz to 6 GHz ＂

## Additional Documentation：

c）DASY4／5 System Handbook

## Methods Applied and Interpretation of Parameters：

－Measurement Conditions：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 measurement at the SMA 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．

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $\mathrm{k}=2$ ，which for a normal distribution Corresponds to a coverage probability of approximately $95 \%$ ．

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Measurement Conditions
DASY system configuration, as far as not given on page 1.

| 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 | $\mathrm{dx}, \mathrm{dy}, \mathrm{dz}=5 \mathrm{~mm}$ |  |
| Frequency | $2450 \mathrm{MHz} \pm 1 \mathrm{MHz}$ |  |

Head TSL parameters
The following parameters and calculations were applied.

|  | Temperature | Permittivity | Conductivity |
| :--- | :---: | :---: | :---: |
| Nominal Head TSL parameters | $22.0^{\circ} \mathrm{C}$ | 39.2 | $1.80 \mathrm{mho} / \mathrm{m}$ |
| Measured Head TSL parameters | $(22.0 \pm 0.2)^{\circ} \mathrm{C}$ | $39.5 \pm 6 \%$ | $1.79 \mathrm{mho} / \mathrm{m} \pm 6 \%$ |
| Head TSL temperature change during test | $<1.0^{\circ} \mathrm{C}$ | --- | ---- |

SAR result with Head TSL

| SAR averaged over $1 \mathrm{~cm}^{3}(1 \mathrm{~g})$ of Head TSL | Condition |  |
| :---: | :---: | :---: |
| SAR measured | 250 mW input power | 13.2 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 53.0 W/kg $\pm 18.8$ \% ( $k=2$ ) |
| SAR averaged over $10 \mathrm{~cm}^{3}(10 \mathrm{~g})$ of Head TSL | Condition |  |
| SAR measured | 250 mW input power | 6.15 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 24.7 W/kg $\pm 18.7$ \% ( $k=2$ ) |

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Appendix（Additional assessments outside the scope of CNAS L0570）

## Antenna Parameters with Head TSL

| Impedance，transformed to feed point | $52.1 \Omega+3.20 \mathrm{j} \Omega$ |
| :--- | :---: |
| Return Loss | -28.5 dB |

## General Antenna Parameters and Design

| Electrical Delay（one direction） | 1.066 ns |
| :--- | :--- |

After long term use with 100W radiated power，only a slight warming of the dipole near the feed－point can be measured．

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 position as explained in 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．

## Additional EUT Data

| Manufactured by |  | SPEAG |
| :--- | :--- | :--- | :--- |

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## DASY5 Validation Report for Head TSL

Date：2022－04－01
Test Laboratory：CTTL，Beijing，China
DUT：Dipole 2450 MHz ；Type：D2450V2；Serial：D2450V2－SN： 817
Communication System：UID 0，CW；Frequency： 2450 MHz ；Duty Cycle：1：1
Medium parameters used： $\mathrm{f}=2450 \mathrm{MHz} ; \sigma=1.79 \mathrm{~S} / \mathrm{m} ; \varepsilon_{\mathrm{r}}=39.52 ; \rho=1000 \mathrm{~kg} / \mathrm{m}^{3}$
Phantom section：Right Section
Measurement Standard：DASY5（IEEE／IEC／ANSI C63．19－2007）
DASY5 Configuration：
－Probe：EX3DV4－SN7307；ConvF（7．75，7．75，7．75）＠ 2450 MHz ；Calibrated： 2021－05－26
－Sensor－Surface： 1.4 mm （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（1535）；SEMCAD X 14．6．14（7501）
Dipole Calibration／Zoom Scan（7x7x7）（7x7x7）／Cube 0：Measurement grid：$d x=5 \mathrm{~mm}$ ， $\mathrm{dy}=5 \mathrm{~mm}, \mathrm{dz}=5 \mathrm{~mm}$
Reference Value $=104.6 \mathrm{~V} / \mathrm{m}$ ；Power Drift $=-0.03 \mathrm{~dB}$
Peak SAR $($ extrapolated $)=27.0 \mathrm{~W} / \mathrm{kg}$
$\operatorname{SAR}(1 \mathrm{~g})=13.2 \mathrm{~W} / \mathrm{kg} ; \operatorname{SAR}(10 \mathrm{~g})=6.15 \mathrm{~W} / \mathrm{kg}$
Smallest distance from peaks to all points 3 dB below $=8.9 \mathrm{~mm}$
Ratio of SAR at M2 to SAR at M1 $=49.2 \%$
Maximum value of SAR（measured）$=22.1 \mathrm{~W} / \mathrm{kg}$

$0 \mathrm{~dB}=22.1 \mathrm{~W} / \mathrm{kg}=13.44 \mathrm{dBW} / \mathrm{kg}$

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Impedance Measurement Plot for Head TSL


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## 2．DAE4－SN 1305




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## Glossary:

 DAE data acquisition electronicsConnector angle information used in DASY system to align probe sensor X to the robot coordinate system.

## Methods Applied and Interpretation of Parameters:

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The report provide only calibration results for DAE, it does not contain other performance test results.

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DC Voltage Measurement
A/D - Converter Resolution nominal
High Range: $\quad 1 \mathrm{LSB}=\quad 6.1 \mu \mathrm{~V}, \quad$ full range $=\quad-100 \ldots+300 \mathrm{mV}$
Low Range: $\quad 1 \mathrm{LSB}=\quad 61 \mathrm{nV}, \quad$ full range $=\quad-1 \ldots \ldots+3 \mathrm{mV}$
DASY measurement parameters: Auto Zero Time: 3 sec ; Measuring time: 3 sec

| Calibration Factors | $\mathbf{X}$ | $\mathbf{Y}$ | Z |
| :--- | :---: | :---: | :---: |
| High Range | $403.836 \pm 0.15 \%(k=2)$ | $404.000 \pm 0.15 \%(k=2)$ | $404.320 \pm 0.15 \%(k=2)$ |
| Low Range | $3.98123 \pm 0.7 \%(k=2)$ | $3.99042 \pm 0.7 \%(k=2)$ | $3.99606 \pm 0.7 \%(k=2)$ |

## Connector Angle

| Connector Angle to be used in DASY system | $97^{\circ} \pm 1^{\circ}$ |
| :--- | :--- |

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## 3．EX3DV4－SN 7346



| Primary Standards | 10 | Cal Date（Certificate No．） | Scheduled Calibration |
| :---: | :---: | :---: | :---: |
| Power meter NRP | SN： 104778 | 09－Apr－21（No．217－03291／03292） | Apr－22 |
| Power sensor NRP－Z91 | SN： 103244 | 09－Apr－21（No．217－03291） | Apr－22 |
| Power sensor NRP－Z91 | SN： 103245 | 09－Apr－21（No．217－03292） | Apr－22 |
| Reference 20 dB Attenuator | SN：CC2552（20x） | 09－Apr－21（No．217－03343） | Apr－22 |
| DAE4 | SN： 660 | 13－Oct－21（No．DAE4－660＿Oct21） | Oct－22 |
| Reference Probe ES3DV2 | SN： 3013 | 27－Dec－21（No．ES3－3013＿Dec21） | Dec－22 |
| Secondary Standards | ID | Check Date（in house） | Scheduled Check |
| Power meter E4419B | SN：GB41293874 | 06－Apr－16（in house check Jun－20） | In house check：Jun－22 |
| Power sensor E4412A | SN：MY41498087 | 06 －Apr－16（in house check Jun－20） | In house check：Jun－22 |
| Power sensor E4412A | SN： 000110210 | 06 －Apr－16（in house check Jun－20） | In house check：Jun－22 |
| RF generator HP 8648C | SN：US3642U01700 | 04－Aug－99（in house check Jun－20） | In house check：Jun－22 |
| Network Analyzer E8358A | SN：US41080477 | 31－Mar－14（in house check Oct－20） | In house check：Oct－22 |
| Calibrated by： | Name | Function | Signature |
|  | Jeton Kastrati | Laboratory Technician |  |
| Approved by： | Sven Kühn | Deputy Manager | $5 . \angle 6$ |
| This calibration certificate shal | be reproduced excep | hout written approval of the laboratory | Issued：March 31， 2022 |

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## Glossary：

TSL
NORM $x, y, z \quad$ tissue simulating liquid
ConvF sensitivity in free space
ConvF sensitivity in TSL／NORMx $x, y$
CF
A，B，C，D
Polarization $\varphi$
Polarization $\vartheta$
Connector Angle
diode compression point
crest factor（1／duty＿cycle）of the RF signal modulation dependent linearization parameters $\varphi$ modulation dependent linear
$\vartheta$ rotation around an axis that is in the plane normal to probe axis（at measurement center）， i．e．，$\vartheta=0$ is normal to probe axis information used in DASY system to align probe sensor $X$ to the robot coordinate system

Calibration is Performed According to the Following Standards：
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－Worn Wireless Communication Devices－ Part 1528：Human Models，Instrumentation And Procedures（Frequency Range of 4 MHz to 10 GHz ）＂，October 2020.
b）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 $\vartheta=0$（ $f \leq 900 \mathrm{MHz}$ in TEM－cell； $\mathrm{f}>1800 \mathrm{MHz}$ ：R22 waveguide）． NORM $x, y, z$ are only intermediate values，i．e．，the uncertainties of NORM $x, y, z$ does not affect the $E^{2}$－field uncertainty inside TSL（see below ConvF）．
－ $\operatorname{NORM}(f) x, y, z=\operatorname{NORMx,y,z}$＊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
－$D C P_{x, y, z:}$ DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal（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；$B x, y, z ; C x, y, z ; D x, y, z ; V R x, y, z: A, B, C, D$ 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 $\mathrm{f} \leq 800 \mathrm{MHz}$ ）and inside waveguide using analytical field distributions based on power measurements for $\mathrm{f}>800 \mathrm{MHz}$ ．The same setups are used for assessment of the parameters applied for boundary compensation（alpha，depth）of which typical uncertainty values 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 $\pm 50 \mathrm{MHz}$ to $\pm 100$ MHz ．
－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：7346
Basic Calibration Parameters

|  | Sensor $\mathbf{X}$ | Sensor Y | Sensor $\mathbf{Z}$ | Unc $(\mathbf{k}=\mathbf{2})$ |
| :--- | :---: | :---: | :---: | :---: |
| $\operatorname{Norm}\left(\mu \mathrm{V} /(\mathrm{V} / \mathrm{m})^{2}\right)^{\mathrm{A}}$ | 0.46 | 0.47 | 0.61 | $\pm 10.1 \%$ |
| $\mathrm{DCP}(\mathrm{mV})^{\mathrm{B}}$ | 101.4 | 106.0 | 106.9 |  |

Calibration Results for Modulation Response

| UID | Communication System Name |  | $\begin{gathered} \mathrm{A} \\ \mathrm{~dB} \end{gathered}$ | $\begin{gathered} \mathrm{B} \\ \mathrm{~dB} \vee \mu \mathrm{~V} \end{gathered}$ | C | $\begin{gathered} \mathrm{D} \\ \mathrm{~dB} \end{gathered}$ | $\begin{aligned} & \text { VR } \\ & \mathrm{mV} \end{aligned}$ | Max dev． | Max UncE （ $k=2$ ） |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | CW | X | 0.00 | 0.00 | 1.00 | 0.00 | 143.5 | $\pm 3.0$ \％ | $\pm 4.7$ \％ |
|  |  | Y | 0.00 | 0.00 | 1.00 |  | 135.3 |  |  |
|  |  | Z | 0.00 | 0.00 | 1.00 |  | 139.0 |  |  |
| $\begin{aligned} & 10352- \\ & \text { AAA } \end{aligned}$ | Pulse Waveform（ $200 \mathrm{~Hz}, 10 \%$ ） | X | 3.33 | 68.90 | 11.66 | 10.00 | 60.0 | $\pm 3.5$ \％ | $\pm 9.6$ \％ |
|  |  | Y | 4.03 | 70.70 | 12.35 |  | 60.0 |  |  |
|  |  | Z | 1.63 | 61.25 | 6.76 |  | 60.0 |  |  |
| $\begin{aligned} & \text { 10353- } \\ & \text { AAA } \end{aligned}$ | Pulse Waveform（ 200 Hz ，20\％） | X | 3.00 | 70.65 | 11.31 | 6.99 | 80.0 | $\pm 2.4$ \％ | $\pm 9.6$ \％ |
|  |  | Y | 11.51 | 81.32 | 14.72 |  | 80.0 |  |  |
|  |  | Z | 0.83 | 60.00 | 5.11 |  | 80.0 |  |  |
| 10354-AAA | Pulse Waveform（ $200 \mathrm{~Hz}, 40 \%$ ） | X | 7.41 | 78.85 | 12.51 | 3.98 | 95.0 | $\pm 2.7$ \％ | $\pm 9.6$ \％ |
|  |  | Y | 20.00 | 87.62 | 15.51 |  | 95.0 |  |  |
|  |  | Z | 0.18 | 138.38 | 0.01 |  | 95.0 |  |  |
| $\begin{aligned} & \text { 10355- } \\ & \text { AAA } \end{aligned}$ | Pulse Waveform（ $200 \mathrm{~Hz}, 60 \%$ ） | X | 2.27 | 72.13 | 9.52 | 2.22 | 120.0 | $\pm 1.7$ \％ | $\pm 9.6$ \％ |
|  |  | Y | 20.00 | 91.58 | 16.29 |  | 120.0 |  |  |
|  |  | Z | 7.94 | 159.51 | 16.87 |  | 120.0 |  |  |
| $10387-$AAA | QPSK Waveform， 1 MHz | X | 1.47 | 64.88 | 13.82 | 1.00 | 150.0 | $\pm 4.2$ \％ | $\pm 9.6$ \％ |
|  |  | Y | 1.56 | 66.24 | 14.70 |  | 150.0 |  |  |
|  |  | Z | 0.45 | 61.88 | 11.05 |  | 150.0 |  |  |
| 10388－ AAA | QPSK Waveform， 10 MHz | X | 1.96 | 66.27 | 14.65 | 0.00 | 150.0 | $\pm 1.1$ \％ | $\pm 9.6$ \％ |
|  |  | Y | 2.06 | 67.33 | 15.38 |  | 150.0 |  |  |
|  |  | Z | 1.21 | 64.75 | 13.18 |  | 150.0 |  |  |
| $\begin{aligned} & \text { 10396- } \\ & \text { AAA } \end{aligned}$ | 64－QAM Waveform， 100 kHz | $X$ | 2.63 | 69.51 | 18.25 | 3.01 | 150.0 | $\pm 1.0$ \％ | $\pm 9.6$ \％ |
|  |  | Y | 2.74 | 70.83 | 19.16 |  | 150.0 |  |  |
|  |  | Z | 1.70 | 64.72 | 15.99 |  | 150.0 |  |  |
| $\begin{aligned} & \text { 10399- } \\ & \text { AAA } \end{aligned}$ | 64－QAM Waveform， 40 MHz | X | 3.34 | 66.39 | 15.25 | 0.00 | 150.0 | $\pm 2.0$ \％ | $\pm 9.6$ \％ |
|  |  | Y | 3.38 | 66.82 | 15.56 |  | 150.0 |  |  |
|  |  | Z | 2.70 | 65.72 | 14.74 |  | 150.0 |  |  |
| $10414-$ <br> AAA | WLAN CCDF， $64-\mathrm{QAM}, 40 \mathrm{MHz}$ | X | 4.71 | 65.35 | 15.27 | 0.00 | 150.0 | $\pm 3.6$ \％ | $\pm 9.6$ \％ |
|  |  | Y | 4.70 3.83 | 65.54 | 15.41 15.28 |  | 150.0 150.0 |  |  |

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $\mathrm{k}=2$ ，which for a normal distribution corresponds to a coverage probability of approximately $95 \%$ ．
${ }^{A}$ The uncertainties of Norm X，Y，Z do not affect the $E^{2}$－field uncertainty inside TSL（see Pages 5 and 6 ）．
${ }^{3}$ Numerical linearization parameter：uncertainty not required．
field value．

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DASY／EASY－Parameters of Probe：EX3DV4－SN：7346
Sensor Model Parameters

|  | $\mathbf{C 1}$ <br> $\mathbf{f F}$ | $\mathbf{C 2}$ <br> $\mathbf{f F}$ | $\mathbf{a}$ <br> $\mathbf{V}^{\mathbf{- 1}}$ | T1 <br> $\mathbf{m s .} \mathbf{V}^{-\mathbf{2}}$ | T2 <br> $\mathbf{m s .} . \mathbf{V}^{-\mathbf{1}}$ | T3 <br> $\mathbf{m s}$ | T4 <br> $\mathbf{V}^{-\mathbf{2}}$ | T5 <br> $\mathbf{V}^{-1}$ | T6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{X}$ | 39.3 | 291.80 | 35.10 | 5.63 | 0.03 | 5.02 | 1.42 | 0.12 | 1.01 |
| Y | 37.1 | 270.84 | 34.12 | 8.29 | 0.00 | 5.01 | 1.62 | 0.05 | 1.01 |
| Z | 9.7 | 69.74 | 33.37 | 4.96 | 0.00 | 4.94 | 0.61 | 0.00 | 1.00 |

## Other Probe Parameters

| Sensor Arrangement | Triangular |
| :--- | ---: |
| Connector Angle $\left(^{\circ}\right.$ ） | -166.1 |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disabled |
| Probe Overall Length | 337 mm |
| Probe Body Diameter | 10 mm |
| Tip Length | 9 mm |
| Tip Diameter | 2.5 mm |
| Probe Tip to Sensor X Calibration Point | 1 mm |
| Probe Tip to Sensor Y Calibration Point | 1 mm |
| Probe Tip to Sensor Z Calibration Point | 1 mm |
| Recommended Measurement Distance from Surface | 1.4 mm |

Note：Measurement distance from surface can be increased to 3－4 mm for an Area Scan job．

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DASY／EASY－Parameters of Probe：EX3DV4－SN：7346

Calibration Parameter Determined in Head Tissue Simulating Media

| $f(\mathrm{MHz})^{\text {c }}$ | Relative Permittivity ${ }^{F}$ | Conductivity $(\mathrm{S} / \mathrm{m})^{\mathrm{F}}$ | ConvF X | ConvF Y | ConvF Z | Alpha ${ }^{\text {G }}$ | Depth ${ }^{6}$ （mm） | $\begin{aligned} & \text { Unc } \\ & (\mathbf{k}=2) \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 750 | 41.9 | 0.89 | 10.56 | 10.56 | 10.56 | 0.55 | 0.85 | $\pm 12.0$ \％ |
| 835 | 41.5 | 0.90 | 10.12 | 10.12 | 10.12 | 0.42 | 0.96 | $\pm 12.0$ \％ |
| 900 | 41.5 | 0.97 | 10.10 | 10.10 | 10.10 | 0.53 | 0.80 | $\pm 12.0$ \％ |
| 1450 | 40.5 | 1.20 | 9.26 | 9.26 | 9.26 | 0.50 | 0.80 | $\pm 12.0$ \％ |
| 1750 | 40.1 | 1.37 | 8.83 | 8.83 | 8.83 | 0.34 | 0.86 | $\pm 12.0$ \％ |
| 1900 | 40.0 | 1.40 | 8.48 | 8.48 | 8.48 | 0.35 | 0.86 | $\pm 12.0 \%$ |
| 2000 | 40.0 | 1.40 | 8.35 | 8.35 | 8.35 | 0.34 | 0.86 | $\pm 12.0$ \％ |
| 2300 | 39.5 | 1.67 | 7.86 | 7.86 | 7.86 | 0.39 | 0.90 | $\pm 12.0$ \％ |
| 2450 | 39.2 | 1.80 | 7.63 | 7.63 | 7.63 | 0.41 | 0.90 | $\pm 12.0$ \％ |
| 2600 | 39.0 | 1.96 | 7.33 | 7.33 | 7.33 | 0.44 | 0.90 | $\pm 12.0$ \％ |
| 3300 | 38.2 | 2.71 | 7.15 | 7.15 | 7.15 | 0.30 | 1.35 | $\pm 13.1$ \％ |
| 3500 | 37.9 | 2.91 | 7.14 | 7.14 | 7.14 | 0.30 | 1.35 | $\pm 13.1$ \％ |
| 3700 | 37.7 | 3.12 | 6.85 | 6.85 | 6.85 | 0.30 | 1.35 | $\pm 13.1 \%$ |
| 3900 | 37.5 | 3.32 | 6.71 | 6.71 | 6.71 | 0.40 | 1.60 | $\pm 13.1$ \％ |
| 4100 | 37.2 | 3.53 | 6.58 | 6.58 | 6.58 | 0.40 | 1.60 | $\pm 13.1 \%$ |
| 4200 | 37.1 | 3.63 | 6.30 | 6.30 | 6.30 | 0.40 | 1.70 | $\pm 13.1$ \％ |
| 4400 | 36.9 | 3.84 | 6.24 | 6.24 | 6.24 | 0.40 | 1.70 | $\pm 13.1 \%$ |
| 4600 | 36.7 | 4.04 | 6.11 | 6.11 | 6.11 | 0.40 | 1.70 | $\pm 13.1 \%$ |
| 4800 | 36.4 | 4.25 | 6.08 | 6.08 | 6.08 | 0.40 | 1.80 | $\pm 13.1$ \％ |
| 4950 | 36.3 | 4.40 | 5.84 | 5.84 | 5.84 | 0.40 | 1.80 | $\pm 13.1$ \％ |
| 5200 | 36.0 | 4.66 | 5.25 | 5.25 | 5.25 | 0.40 | 1.80 | $\pm 13.1 \%$ |
| 5300 | 35.9 | 4.76 | 5.12 | 5.12 | 5.12 | 0.40 | 1.80 | $\pm 13.1 \%$ |
| 5500 | 35.6 | 4.96 | 4.85 | 4.85 | 4.85 | 0.40 | 1.80 | $\pm 13.1 \%$ |
| 5600 | 35.5 | 5.07 | 4.70 | 4.70 | 4.70 | 0.40 | 1.80 | $\pm 13.1$ \％ |
| 5800 | 35.3 | 5.27 | 4.75 | 4.75 | 4.75 | 0.40 | 1.80 | $\pm 13.1$ \％ |

${ }^{\text {c }}$ Frequency validity above 300 MHz of $\pm 100 \mathrm{MHz}$ only applies for DASY $v 4.4$ and higher（see Page 2），else it is restricted to $\pm 50 \mathrm{MHz}$ ．The
uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band．Frequency validity 6 MHz is 4 MHz is $\pm 10,25,40,50$ and 70 MHz for ConvF assessments at $30,64,128,150$ and 220 MHz respectively．Validity of ConvF assessed at 6 MHz is $4-9 \mathrm{MHz}$ ，and ConvF assessed at 13 MHz is $9-19 \mathrm{MHz}$ ．Above 5 GHz frequency validity can be extended to $\pm 110 \mathrm{MHz}$ ．
At frequencies
the ConvF uncertainty for indicated target tissue parameters．
always less than $\pm 1 \%$ for frequencies below 3 GHz and below $\pm 2 \%$ for frequencies between $3-6 \mathrm{GHz}$ at any distance larger than half the probe tip diameter from the boundary．
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DASY/EASY - Parameters of Probe: EX3DV4 - SN:7346

Calibration Parameter Determined in Head Tissue Simulating Media

| $\mathbf{f ( M H z}^{\text {c }}$ | Relative <br> Permittivity $^{\text {F }}$ | Conductivity <br> $\left(\mathbf{S} / \mathbf{m}^{\text {F }}\right.$ | ConvF X | ConvF Y | ConvF Z | Alpha $^{\text {G }}$ | Depth <br> $(\mathbf{m m})$ | Unc <br> $(\mathbf{k}=2)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6500 | 34.5 | 6.07 | 5.30 | 5.30 | 5.30 | 0.20 | 2.50 | $\pm 18.6 \%$ |

${ }^{c}$ Frequency validity above 6 GHz is $\pm 700 \mathrm{MHz}$. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for
the indicated frequency band.
${ }^{F}$ At frequencies $6-10 \mathrm{GHz}$, the validity of tissue parameters ( $\varepsilon$ and $\sigma$ ) can be relaxed to $\pm 10 \%$ if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
${ }^{6}$ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than $\pm 1 \%$ for frequencies below 3 GHz ; below $\pm 2 \%$ for frequencies between $3-6 \mathrm{GHz}$; and below $\pm 4 \%$ for frequencies between $6-10$ GHz at any distance larger than half the probe tip diameter from the boundary


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


Uncertainty of Frequency Response of E－field：$\pm 6.3 \%(k=2)$

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# SGS 

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Dynamic Range $f\left(\right.$ SAR $\left._{\text {nead }}\right)$ （TEM cell ，feval $=1900 \mathrm{MHz}$ ）



Uncertainty of Linearity Assessment：$\pm 0.6 \%(k=2)$

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Conversion Factor Assessment




Appendix：Modulation Calibration Parameters

| UID | Rev | Communication System Name | Group | PAR <br> （dB） | $\begin{aligned} & \text { Unc }^{\varepsilon} \\ & (\mathbf{k}=2) \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | － | CW | CW | 0.00 | $\pm 4.7$ \％ |
| 10010 | CAA | SAR Validation（Square，100ms，10ms） | Test | 10.00 | $\pm 9.6$ \％ |
| 10011 | CAB | UMTS－FDD（WCDMA） | WCDMA | 2.91 | $\pm 9.6$ \％ |
| 10012 | CAB | IEEE 802．11b WiFi 2.4 GHz （DSSS， 1 Mbps ） | WLAN | 1.87 | $\pm 9.6$ \％ |
| 10013 | CAB | IEEE 802．11g WiFi 2．4 GHz（DSSS－OFDM， 6 Mbps ） | WLAN | 9.46 | $\pm 9.6$ \％ |
| 10021 | DAC | GSM－FDD（TDMA，GMSK） | GSM | 9.39 | $\pm 9.6$ \％ |
| 10023 | DAC | GPRS－FDD（TDMA，GMSK，TN 0） | GSM | 9.57 | $\pm 9.6$ \％ |
| 10024 | DAC | GPRS－FDD（TDMA，GMSK，TN 0－1） | GSM | 6.56 | $\pm 9.6$ \％ |
| 10025 | DAC | EDGE－FDD（TDMA，8PSK，TN 0） | GSM | 12.62 | $\pm 9.6$ \％ |
| 10026 | DAC | EDGE－FDD（TDMA，8PSK，TN 0－1） | GSM | 9.55 | $\pm 9.6 \%$ |
| 10027 | DAC | GPRS－FDD（TDMA，GMSK，TN 0－1－2） | GSM | 4.80 | $\pm 9.6$ \％ |
| 10028 | DAC | GPRS－FDD（TDMA，GMSK，TN 0－1－2－3） | GSM | 3.55 | $\pm 9.6$ \％ |
| 10029 | DAC | EDGE－FDD（TDMA，8PSK，TN 0－1－2） | GSM | 7.78 | $\pm 9.6$ \％ |
| 10030 | CAA | IEEE 802．15．1 Bluetooth（GFSK，DH1） | Bluetooth | 5.30 | $\pm 9.6$ \％ |
| 10031 | CAA | IEEE 802．15．1 Bluetooth（GFSK，DH3） | Bluetooth | 1.87 | $\pm 9.6$ \％ |
| 10032 | CAA | IEEE 802．15．1 Bluetooth（GFSK，DH5） | Bluetooth | 1.16 | $\pm 9.6$ \％ |
| 10033 | CAA | IEEE 802．15．1 Bluetooth（PI／4－DQPSK，DH1） | Bluetooth | 7.74 | $\pm 9.6$ \％ |
| 10034 | CAA | IEEE 802．15．1 Bluetooth（PI／4－DQPSK，DH3） | Bluetooth | 4.53 | $\pm 9.6$ \％ |
| 10035 | CAA | IEEE 802．15．1 Bluetooth（PI／4－DQPSK，DH5） | Bluetooth | 3.83 | $\pm 9.6 \%$ |
| 10036 | CAA | IEEE 802．15．1 Bluetooth（8－DPSK，DH1） | Bluetooth | 8.01 | $\pm 9.6$ \％ |
| 10037 | CAA | IEEE 802．15．1 Bluetooth（8－DPSK，DH3） | Bluetooth | 4.77 | $\pm 9.6$ \％ |
| 10038 | CAA | IEEE 802．15．1 Bluetooth（8－DPSK，DH5） | Bluetooth | 4.10 | $\pm 9.6$ \％ |
| 10039 | CAB | CDMA2000（1xRTT，RC1） | CDMA2000 | 4.57 | $\pm 9.6 \%$ |
| 10042 | CAB | IS－54／IS－136 FDD（TDMA／FDM，P／／4－DQPSK，Halfrate） | AMPS | 7.78 | $\pm 9.6$ \％ |
| 10044 | CAA | IS－91／EIA／TIA－553 FDD（FDMA，FM） | AMPS | 0.00 | $\pm 9.6$ \％ |
| 10048 | CAA | DECT（TDD，TDMA／FDM，GFSK，Full Slot，24） | DECT | 13.80 | $\pm 9.6$ \％ |
| 10049 | CAA | DECT（TDD，TDMA／FDM，GFSK，Double Slot，12） | DECT | 10.79 | $\pm 9.6 \%$ |
| 10056 | CAA | UMTS－TDD（TD－SCDMA， 1.28 Mcps ） | TD－SCDMA | 11.01 | $\pm 9.6$ \％ |
| 10058 | DAC | EDGE－FDD（TDMA，8PSK，TN 0－1－2－3） | GSM | 6.52 | $\pm 9.6$ \％ |
| 10059 | CAB | IEEE 802．11b WiFi 2.4 GHz （DSSS， 2 Mbps ） | WLAN | 2.12 | $\pm 9.6$ \％ |
| 10060 | CAB | IEEE 802．11b WiFi 2.4 GHz （DSSS， 5.5 Mbps ） | WLAN | 2.83 | $\pm 9.6$ \％ |
| 10061 | CAB | IEEE 802．11b WiFi 2.4 GHz （DSSS， 11 Mbps ） | WLAN | 3.60 | $\pm 9.6$ \％ |
| 10062 | CAD | IEEE 802．11a／h WiFi 5 GHz （OFDM， 6 Mbps ） | WLAN | 8.68 | $\pm 9.6$ \％ |
| 10063 | CAD | IEEE 802．11a／h WiFi 5 GHz （OFDM， 9 Mbps ） | WLAN | 8.63 | $\pm 9.6$ \％ |
| 10064 | CAD | IEEE 802．11a／h WiFi 5 GHz （OFDM， 12 Mbps ） | WLAN | 9.09 | $\pm 9.6$ \％ |
| 10065 | CAD | IEEE 802．11a／h WiFi 5 GHz （OFDM， 18 Mbps ） | WLAN | 9.00 | $\pm 9.6 \%$ |
| 10066 | CAD | IEEE 802．11a／h WiFi 5 GHz （OFDM， 24 Mbps ） | WLAN | 9.38 | $\pm 9.6$ \％ |
| 10067 | CAD | IEEE 802．11a／h WiFi 5 GHz （OFDM， 36 Mbps ） | WLAN | 10.12 | $\pm 9.6$ \％ |
| 10068 | CAD | IEEE 802．11a／h WiFi 5 GHz （OFDM， 48 Mbps ） | WLAN | 10.24 | $\pm 9.6$ \％ |
| 10069 | CAD | IEEE 802．11a／h WiFi 5 GHz （OFDM， 54 Mbps ） | WLAN | 10.56 | $\pm 9.6$ \％ |
| 10071 | CAB | IEEE 802.11 g WiFi 2.4 GHz （DSSS／OFDM， 9 Mbps ） | WLAN | 9.83 | $\pm 9.6$ \％ |
| 10072 | CAB | IEEE 802.11 g WiFi 2.4 GHz （DSSS／OFDM， 12 Mbps ） | WLAN | 9.62 | $\pm 9.6$ \％ |
| 10073 | CAB | IEEE 802.11 g Wifi 2.4 GHz （DSSS／OFDM， 18 Mbps ） | WLAN | 9.94 | $\pm 9.6$ \％ |
| 10074 | CAB | IEEE 802．11g WiFi 2.4 GHz （DSSS／OFDM， 24 Mbps ） | WLAN | 10.30 | $\pm 9.6$ \％ |
| 10075 | CAB | IEEE 802.11 g WiFi 2.4 GHz （DSSS／OFDM， 36 Mbps ） | WLAN | 10.77 | $\pm 9.6$ \％ |
| 10076 | CAB | IEEE 802.11 g WiFi 2.4 GHz （DSSS／OFDM， 48 Mbps ） | WLAN | 10.94 | $\pm 9.6$ \％ |
| 10077 | CAB | IEEE 802.11 g WiFi 2.4 GHz （DSSS／OFDM， 54 Mbps ） | WLAN | 11.00 | $\pm 9.6$ \％ |
| 10081 | CAB | CDMA2000（1xRTT，RC3） | CDMA2000 | 3.97 | $\pm 9.6$ \％ |
| 10082 | CAB | IS－54／IS－136 FDD（TDMA／FDM，Pl／4－DQPSK，Fullrate） | AMPS | 4.77 | $\pm 9.6$ \％ |
| 10090 | DAC | GPRS－FDD（TDMA，GMSK，TN 0－4） | GSM | 6.56 | $\pm 9.6$ \％ |
| 10097 | CAB | UMTS－FDD（HSDPA） | WCDMA | 3.98 | $\pm 9.6$ \％ |
| 10098 | CAB | UMTS－FDD（HSUPA，Subtest 2） | WCDMA | 3.98 | $\pm 9.6$ \％ |
| 10099 | DAC | EDGE－FDD（TDMA，8PSK，TN 0－4） | GSM | 9.55 | $\pm 9.6$ \％ |

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| 10100 | CAE | LTE－FDD（SC－FDMA，100\％RB， 20 MHz ，QPSK） | LTE－FDD | 5.67 | $\pm 9.6$ \％ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 10101 | CAE | LTE－FDD（SC－FDMA， $100 \%$ RB， $20 \mathrm{MHz}, 16$－QAM） | LTE－FDD | 6.42 | $\pm 9.6$ \％ |
| 10102 | CAE | LTE－FDD（SC－FDMA， $100 \%$ RB， 20 MHz ，64－QAM） | LTE－FDD | 6.60 | $\pm 9.6$ \％ |
| 10103 | CAG | LTE－TDD（SC－FDMA， $100 \%$ RB， 20 MHz ，QPSK） | LTE－TDD | 9.29 | $\pm 9.6$ \％ |
| 10104 | CAG | LTE－TDD（SC－FDMA， $100 \%$ RB， $20 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－TDD | 9.97 | $\pm 9.6$ \％ |
| 10105 | CAG | LTE－TDD（SC－FDMA， $100 \%$ RB， $20 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－TDD | 10.01 | $\pm 9.6$ \％ |
| 10108 | CAG | LTE－FDD（SC－FDMA， $100 \%$ RB， 10 MHz ，QPSK） | LTE－FDD | 5.80 | $\pm 9.6$ \％ |
| 10109 | CAG | LTE－FDD（SC－FDMA， $100 \%$ RB， $10 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－FDD | 6.43 | $\pm 9.6$ \％ |
| 10110 | CAG | LTE－FDD（SC－FDMA， $100 \%$ RB， 5 MHz ，QPSK） | LTE－FDD | 5.75 | $\pm 9.6$ \％ |
| 10111 | CAG | LTE－FDD（SC－FDMA， $100 \%$ RB， $5 \mathrm{MHz}, 16$－QAM） | LTE－FDD | 6.44 | $\pm 9.6$ \％ |
| 10112 | CAG | LTE－FDD（SC－FDMA， $100 \%$ RB， $10 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－FDD | 6.59 | $\pm 9.6 \%$ |
| 10113 | CAG | LTE－FDD（SC－FDMA， $100 \%$ RB， $5 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－FDD | 6.62 | $\pm 9.6$ \％ |
| 10114 | CAD | IEEE 802．11n（HT Greenfield， 13.5 Mbps ，BPSK） | WLAN | 8.10 | $\pm 9.6$ \％ |
| 10115 | CAD | IEEE 802．11n（HT Greenfield， $81 \mathrm{Mbps}, 16$－QAM） | WLAN | 8.46 | $\pm 9.6$ \％ |
| 10116 | CAD | IEEE 802．11n（HT Greenfield， 135 Mbps ，64－QAM） | WLAN | 8.15 | $\pm 9.6$ \％ |
| 10117 | CAD | IEEE 802．11n（HT Mixed， 13.5 Mbps ，BPSK） | WLAN | 8.07 | $\pm 9.6$ \％ |
| 10118 | CAD | IEEE 802．11n（HT Mixed， 81 Mbps ，16－QAM） | WLAN | 8.59 | $\pm 9.6$ \％ |
| 10119 | CAD | IEEE 802．11n（HT Mixed， $135 \mathrm{Mbps}, 64-\mathrm{QAM}$ ） | WLAN | 8.13 | $\pm 9.6$ \％ |
| 10140 | CAE | LTE－FDD（SC－FDMA， $100 \%$ RB， $15 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－FDD | 6.49 | $\pm 9.6$ \％ |
| 10141 | CAE | LTE－FDD（SC－FDMA， $100 \%$ RB， $15 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－FDD | 6.53 | $\pm 9.6$ \％ |
| 10142 | CAE | LTE－FDD（SC－FDMA，100\％RB， 3 MHz ，QPSK） | LTE－FDD | 5.73 | $\pm 9.6$ \％ |
| 10143 | CAE | LTE－FDD（SC－FDMA， $100 \%$ RB， $3 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－FDD | 6.35 | $\pm 9.6$ \％ |
| 10144 | CAE | LTE－FDD（SC－FDMA， $100 \%$ RB， $3 \mathrm{MHz}, 64-$ QAM | LTE－FDD | 6.65 | $\pm 9.6$ \％ |
| 10145 | CAF | LTE－FDD（SC－FDMA， $100 \%$ RB，1．4 MHz，QPSK） | LTE－FDD | 5.76 | $\pm 9.6$ \％ |
| 10146 | CAF | LTE－FDD（SC－FDMA， $100 \%$ RB， $1.4 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－FDD | 6.41 | $\pm 9.6$ \％ |
| 10147 | CAF | LTE－FDD（SC－FDMA， $100 \%$ RB， $1.4 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－FDD | 6.72 | $\pm 9.6$ \％ |
| 10149 | CAE | LTE－FDD（SC－FDMA， $50 \%$ RB， 20 MHz ，16－QAM） | LTE－FDD | 6.42 | $\pm 9.6$ \％ |
| 10150 | CAE | LTE－FDD（SC－FDMA， $50 \%$ RB， $20 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－FDD | 6.60 | $\pm 9.6$ \％ |
| 10151 | CAG | LTE－TDD（SC－FDMA， $50 \%$ RB， 20 MHz ，QPSK） | LTE－TDD | 9.28 | $\pm 9.6$ \％ |
| 10152 | CAG | LTE－TDD（SC－FDMA， $50 \%$ RB， 20 MHz ， $16-\mathrm{QAM}$ ） | LTE－TDD | 9.92 | $\pm 9.6$ \％ |
| 10153 | CAG | LTE－TDD（SC－FDMA， $50 \%$ RB， $20 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－TDD | 10.05 | $\pm 9.6$ \％ |
| 10154 | CAG | LTE－FDD（SC－FDMA， $50 \%$ RB， 10 MHz ，QPSK） | LTE－FDD | 5.75 | $\pm 9.6$ \％ |
| 10155 | CAG | LTE－FDD（SC－FDMA， $50 \%$ RB， $10 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－FDD | 6.43 | $\pm 9.6$ \％ |
| 10156 | CAG | LTE－FDD（SC－FDMA， $50 \%$ RB， 5 MHz ，QPSK） | LTE－FDD | 5.79 | $\pm 9.6$ \％ |
| 10157 | CAG | LTE－FDD（SC－FDMA， $50 \%$ RB， $5 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－FDD | 6.49 | $\pm 9.6$ \％ |
| 10158 | CAG | LTE－FDD（SC－FDMA， $50 \%$ RB， $10 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－FDD | 6.62 | $\pm 9.6$ \％ |
| 10159 | CAG | LTE－FDD（SC－FDMA， $50 \%$ RB， $5 \mathrm{MHz}, 64$－QAM） | LTE－FDD | 6.56 | $\pm 9.6$ \％ |
| 10160 | CAE | LTE－FDD（SC－FDMA， $50 \%$ RB， 15 MHz ，QPSK） | LTE－FDD | 5.82 | $\pm 9.6$ \％ |
| 10161 | CAE | LTE－FDD（SC－FDMA， $50 \% \mathrm{RB}, 15 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－FDD | 6.43 | $\pm 9.6$ \％ |
| 10162 | CAE | LTE－FDD（SC－FDMA， $50 \%$ RB， 15 MHz ，64－QAM） | LTE－FDD | 6.58 | $\pm 9.6$ \％ |
| 10166 | CAF | LTE－FDD（SC－FDMA， $50 \%$ RB， 1.4 MHz ，QPSK） | LTE－FDD | 5.46 | $\pm 9.6$ \％ |
| 10167 | CAF | LTE－FDD（SC－FDMA， $50 \%$ RB，1．4 MHz，16－QAM） | LTE－FDD | 6.21 | $\pm 9.6$ \％ |
| 10168 | CAF | LTE－FDD（SC－FDMA， $50 \%$ RB， $1.4 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－FDD | 6.79 | $\pm 9.6$ \％ |
| 10169 | CAE | LTE－FDD（SC－FDMA， 1 RB， 20 MHz ，QPSK） | LTE－FDD | 5.73 | $\pm 9.6$ \％ |
| 10170 | CAE | LTE－FDD（SC－FDMA， 1 RB， $20 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－FDD | 6.52 | $\pm 9.6$ \％ |
| 10171 | AAE | LTE－FDD（SC－FDMA， 1 RB， $20 \mathrm{MHz}, 64-$ QAM ） | LTE－FDD | 6.49 | $\pm 9.6$ \％ |
| 10172 | CAG | LTE－TDD（SC－FDMA， $1 \mathrm{RB}, 20 \mathrm{MHz}$ ，QPSK） | LTE－TDD | 9.21 | $\pm 9.6$ \％ |
| 10173 | CAG | LTE－TDD（SC－FDMA， 1 RB， 20 MHz ，16－QAM） | LTE－TDD | 9.48 | $\pm 9.6$ \％ |
| 10174 | CAG | LTE－TDD（SC－FDMA， 1 RB， $20 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－TDD | 10.25 | $\pm 9.6$ \％ |
| 10175 | CAG | LTE－FDD（SC－FDMA， 1 RB， 10 MHz, QPSK） | LTE－FDD | 5.72 | $\pm 9.6$ \％ |
| 10176 | CAG | LTE－FDD（SC－FDMA， 1 RB， $10 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－FDD | 6.52 | $\pm 9.6$ \％ |
| 10177 | CAI | LTE－FDD（SC－FDMA， 1 RB， 5 MHz ，QPSK） | LTE－FDD | 5.73 | $\pm 9.6$ \％ |
| 10178 | CAG | LTE－FDD（SC－FDMA， 1 RB， $5 \mathrm{MHz}, 16$－QAM） | LTE－FDD | 6.52 | $\pm 9.6$ \％ |
| 10179 | CAG | LTE－FDD（SC－FDMA， 1 RB， $10 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－FDD | 6.50 | $\pm 9.6$ \％ |
| 10180 | CAG | LTE－FDD（SC－FDMA， 1 RB， $5 \mathrm{MHz}, 64$－QAM） | LTE－FDD | 6.50 | $\pm 9.6$ \％ |
| 10181 | CAE | LTE－FDD（SC－FDMA， 1 RB， 15 MHz ，QPSK） | LTE－FDD | 5.73 | $\pm 9.6$ \％ |


| 10182 | CAE | LTE－FDD（SC－FDMA， 1 RB， 15 MHz ，16－QAM） | LTE－FDD | 6.52 | $\pm 9.6$ \％ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 10183 | AAD | LTE－FDD（SC－FDMA， $1 \mathrm{RB}, 15 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－FDD | 6.50 | $\pm 9.6$ \％ |
| 10184 | CAE | LTE－FDD（SC－FDMA， 1 RB， $3 \mathrm{MHz}, \mathrm{QPSK}$ ） | LTE－FDD | 5.73 | $\pm 9.6$ \％ |
| 10185 | CAE | LTE－FDD（SC－FDMA， 1 RB， $3 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－FDD | 6.51 | $\pm 9.6$ \％ |
| 10186 | AAE | LTE－FDD（SC－FDMA， 1 RB， $3 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－FDD | 6.50 | $\pm 9.6$ \％ |
| 10187 | CAF | LTE－FDD（SC－FDMA，1 RB，1．4 MHz，QPSK） | LTE－FDD | 5.73 | $\pm 9.6$ \％ |
| 10188 | CAF | LTE－FDD（SC－FDMA， 1 RB， $1.4 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－FDD | 6.52 | $\pm 9.6$ \％ |
| 10189 | AAF | LTE－FDD（SC－FDMA，1 RB， $1.4 \mathrm{MHz}, 64$－QAM） | LTE－FDD | 6.50 | $\pm 9.6$ \％ |
| 10193 | CAD | IEEE 802．11n（HT Greenfield， 6.5 Mbps ，BPSK） | WLAN | 8.09 | $\pm 9.6$ \％ |
| 10194 | CAD | IEEE 802．11n（HT Greenfield， 39 Mbps ，16－QAM） | WLAN | 8.12 | $\pm 9.6$ \％ |
| 10195 | CAD | IEEE 802．11n（HT Greenfield， $65 \mathrm{Mbps}, 64$－QAM） | WLAN | 8.21 | $\pm 9.6 \%$ |
| 10196 | CAD | IEEE 802．11n（HT Mixed， $6.5 \mathrm{Mbps}, \mathrm{BPSK}$ ） | WLAN | 8.10 | $\pm 9.6$ \％ |
| 10197 | CAD | IEEE 802．11n（HT Mixed， 39 Mbps ，16－QAM） | WLAN | 8.13 | $\pm 9.6$ \％ |
| 10198 | CAD | IEEE 802．11n（HT Mixed， 65 Mbps ，64－QAM） | WLAN | 8.27 | $\pm 9.6$ \％ |
| 10219 | CAD | IEEE 802．11n（HT Mixed，7．2 Mbps，BPSK） | WLAN | 8.03 | $\pm 9.6$ \％ |
| 10220 | CAD | IEEE 802．11n（HT Mixed， 43.3 Mbps ，16－QAM） | WLAN | 8.13 | $\pm 9.6$ \％ |
| 10221 | CAD | IEEE 802．11 n （HT Mixed， 72.2 Mbps ，64－QAM） | WLAN | 8.27 | $\pm 9.6$ \％ |
| 10222 | CAD | IEEE 802．11n（HT Mixed， 15 Mbps ，BPSK） | WLAN | 8.06 | $\pm 9.6$ \％ |
| 10223 | CAD | IEEE 802．11n（HT Mixed， 90 Mbps ，16－QAM） | WLAN | 8.48 | $\pm 9.6$ \％ |
| 10224 | CAD | IEEE 802．11n（HT Mixed， 150 Mbps ，64－QAM） | WLAN | 8.08 | $\pm 9.6$ \％ |
| 10225 | CAB | UMTS－FDD（HSPA＋） | WCDMA | 5.97 | $\pm 9.6$ \％ |
| 10226 | CAB | LTE－TDD（SC－FDMA， 1 RB，1．4 MHz，16－QAM） | LTE－TDD | 9.49 | $\pm 9.6$ \％ |
| 10227 | CAB | LTE－TDD（SC－FDMA， 1 RB，1．4 MHz，64－QAM） | LTE－TDD | 10.26 | $\pm 9.6$ \％ |
| 10228 | CAB | LTE－TDD（SC－FDMA，1 RB，1．4 MHz，QPSK） | LTE－TDD | 9.22 | $\pm 9.6$ \％ |
| 10229 | CAD | LTE－TDD（SC－FDMA， 1 RB， $3 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－TDD | 9.48 | $\pm 9.6$ \％ |
| 10230 | CAD | LTE－TDD（SC－FDMA， 1 RB， $3 \mathrm{MHz}, 64$－QAM） | LTE－TDD | 10.25 | $\pm 9.6$ \％ |
| 10231 | CAD | LTE－TDD（SC－FDMA， 1 RB， 3 MHz ，QPSK） | LTE－TDD | 9.19 | $\pm 9.6$ \％ |
| 10232 | CAG | LTE－TDD（SC－FDMA， 1 RB， $5 \mathrm{MHz}, 16$－QAM） | LTE－TDD | 9.48 | $\pm 9.6$ \％ |
| 10233 | CAG | LTE－TDD（SC－FDMA， 1 RB， $5 \mathrm{MHz}, 64$－QAM） | LTE－TDD | 10.25 | $\pm 9.6$ \％ |
| 10234 | CAG | LTE－TDD（SC－FDMA， 1 RB， $5 \mathrm{MHz}, \mathrm{QPSK}$ ） | LTE－TDD | 9.21 | $\pm 9.6$ \％ |
| 10235 | CAG | LTE－TDD（SC－FDMA， 1 RB， $10 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－TDD | 9.48 | $\pm 9.6$ \％ |
| 10236 | CAG | LTE－TDD（SC－FDMA， 1 RB， $10 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－TDD | 10.25 | $\pm 9.6$ \％ |
| 10237 | CAG | LTE－TDD（SC－FDMA， $1 \mathrm{RB}, 10 \mathrm{MHz}$ ，QPSK） | LTE－TDD | 9.21 | $\pm 9.6$ \％ |
| 10238 | CAF | LTE－TDD（SC－FDMA， 1 RB， $15 \mathrm{MHz}, 16$－QAM） | LTE－TDD | 9.48 | $\pm 9.6$ \％ |
| 10239 | CAF | LTE－TDD（SC－FDMA， 1 RB， $15 \mathrm{MHz}, 64-$ QAM ） | LTE－TDD | 10.25 | $\pm 9.6$ \％ |
| 10240 | CAF | LTE－TDD（SC－FDMA， 1 RB， 15 MHz ，QPSK） | LTE－TDD | 9.21 | $\pm 9.6$ \％ |
| 10241 | CAB | LTE－TDD（SC－FDMA， $50 \%$ RB， $1.4 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－TDD | 9.82 | $\pm 9.6$ \％ |
| 10242 | CAB | LTE－TDD（SC－FDMA， $50 \%$ RB，1，4 MHz，64－QAM） | LTE－TDD | 9.86 | $\pm 9.6$ \％ |
| 10243 | CAB | LTE－TDD（SC－FDMA， $50 \%$ RB，1．4 MHz，QPSK） | LTE－TDD | 9.46 | $\pm 9.6$ \％ |
| 10244 | CAD | LTE－TDD（SC－FDMA， $50 \%$ RB， $3 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－TDD | 10.06 | $\pm 9.6$ \％ |
| 10245 | CAD | LTE－TDD（SC－FDMA， $50 \%$ RB， $3 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－TDD | 10.06 | $\pm 9.6 \%$ |
| 10246 | CAD | LTE－TDD（SC－FDMA， $50 \%$ RB， 3 MHz, QPSK） | LTE－TDD | 9.30 | $\pm 9.6$ \％ |
| 10247 | CAG | LTE－TDD（SC－FDMA， $50 \%$ RB， 5 MHz ，16－QAM） | LTE－TDD | 9.91 | $\pm 9.6$ \％ |
| 10248 | CAG | LTE－TDD（SC－FDMA， $50 \% \mathrm{RB}, 5 \mathrm{MHz}, 64$－QAM） | LTE－TDD | 10.09 | $\pm 9.6$ \％ |
| 10249 | CAG | LTE－TDD（SC－FDMA， $50 \%$ RB， 5 MHz ，QPSK） | LTE－TDD | 9.29 | $\pm 9.6 \%$ |
| 10250 | CAG | LTE－TDD（SC－FDMA， $50 \%$ RB， $10 \mathrm{MHz}, 16$－QAM） | LTE－TDD | 9.81 | $\pm 9.6$ \％ |
| 10251 | CAG | LTE－TDD（SC－FDMA， $50 \%$ RB， 10 MHz ，64－QAM） | LTE－TDD | 10.17 | $\pm 9.6$ \％ |
| 10252 | CAG | LTE－TDD（SC－FDMA， $50 \%$ RB， 10 MHz ，QPSK） | LTE－TDD | 9.24 | $\pm 9.6$ \％ |
| 10253 | CAF | LTE－TDD（SC－FDMA， $50 \%$ RB， 15 MHz ，16－QAM） | LTE－TDD | 9.90 | $\pm 9.6$ \％ |
| 10254 | CAF | LTE－TDD（SC－FDMA， $50 \%$ RB， 15 MHz ， $64-$ QAM） | LTE－TDD | 10.14 | $\pm 9.6$ \％ |
| 10255 | CAF | LTE－TDD（SC－FDMA， $50 \%$ RB， 15 MHz ，QPSK） | LTE－TDD | 9.20 | $\pm 9.6$ \％ |
| 10256 | CAB | LTE－TDD（SC－FDMA， $100 \%$ RB， $1.4 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－TDD | 9.96 | $\pm 9.6$ \％ |
| 10257 | CAB | LTE－TDD（SC－FDMA， $100 \%$ RB， 1.4 MHz ， 64 －QAM） | LTE－TDD | 10.08 | $\pm 9.6$ \％ |
| 10258 | CAB | LTE－TDD（SC－FDMA， $100 \%$ RB， 1.4 MHz ，QPSK） | LTE－TDD | 9.34 | $\pm 9.6$ \％ |
| 10259 | CAD | LTE－TDD（SC－FDMA， $100 \%$ RB， $3 \mathrm{MHz}, 16-$ QAM ） | LTE－TDD | 9.98 | $\pm 9.6 \%$ |
| 10260 | CAD | LTE－TDD（SC－FDMA， $100 \%$ RB， $3 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－TDD | 9.97 | $\pm 9.6 \%$ |


| 10261 | CAD | LTE－TDD（SC－FDMA， $100 \%$ RB， 3 MHz ，QPSK） | LTE－TDD | 9.24 | $\pm 9.6$ \％ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 10262 | CAG | LTE－TDD（SC－FDMA， $100 \%$ RB， $5 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－TDD | 9.83 | $\pm 9.6$ \％ |
| 10263 | CAG | LTE－TDD（SC－FDMA， $100 \%$ RB， 5 MHz ，64－QAM） | LTE－TDD | 10.16 | $\pm 9.6$ \％ |
| 10264 | CAG | LTE－TDD（SC－FDMA， $100 \%$ RB， 5 MHz ，QPSK） | LTE－TDD | 9.23 | $\pm 9.6$ \％ |
| 10265 | CAG | LTE－TDD（SC－FDMA， $100 \%$ RB， $10 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－TDD | 9.92 | $\pm 9.6$ \％ |
| 10266 | CAG | LTE－TDD（SC－FDMA， $100 \%$ RB， 10 MHz ，64－QAM） | LTE－TDD | 10.07 | $\pm 9.6$ \％ |
| 10267 | CAG | LTE－TDD（SC－FDMA， $100 \%$ RB， 10 MHz ，QPSK） | LTE－TDD | 9.30 | $\pm 9.6$ \％ |
| 10268 | CAF | LTE－TDD（SC－FDMA， $100 \%$ RB， 15 MHz ， $16-\mathrm{QAM}$ ） | LTE－TDD | 10.06 | $\pm 9.6 \%$ |
| 10269 | CAF | LTE－TDD（SC－FDMA，100\％RB， $15 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－TDD | 10.13 | $\pm 9.6$ \％ |
| 10270 | CAF | LTE－TDD（SC－FDMA，100\％RB， 15 MHz ，QPSK） | LTE－TDD | 9.58 | $\pm 9.6$ \％ |
| 10274 | CAB | UMTS－FDD（HSUPA，Subtest 5，3GPP Rel8．10） | WCDMA | 4.87 | $\pm 9.6$ \％ |
| 10275 | CAB | UMTS－FDD（HSUPA，Subtest 5，3GPP Rel8．4） | WCDMA | 3.96 | $\pm 9.6$ \％ |
| 10277 | CAA | PHS（QPSK） | PHS | 11.81 | $\pm 9.6$ \％ |
| 10278 | CAA | PHS（QPSK，BW 884MHz，Rolloff 0．5） | PHS | 11.81 | $\pm 9.6$ \％ |
| 10279 | CAA | PHS（QPSK，BW 884MHz，Rolloff 0．38） | PHS | 12.18 | $\pm 9.6$ \％ |
| 10290 | AAB | CDMA2000，RC1，SO55，Full Rate | CDMA2000 | 3.91 | $\pm 9.6$ \％ |
| 10291 | $A A B$ | CDMA2000，RC3，SO55，Full Rate | CDMA2000 | 3.46 | $\pm 9.6$ \％ |
| 10292 | AAB | CDMA2000，RC3，SO32，Full Rate | CDMA2000 | 3.39 | $\pm 9.6$ \％ |
| 10293 | AAB | CDMA2000，RC3，SO3，Full Rate | CDMA2000 | 3.50 | $\pm 9.6$ \％ |
| 10295 | AAB | CDMA2000，RC1，SO3，1／8th Rate 25 fr ． | CDMA2000 | 12.49 | $\pm 9.6$ \％ |
| 10297 | AAD | LTE－FDD（SC－FDMA， $50 \%$ RB， 20 MHz ，QPSK） | LTE－FDD | 5.81 | $\pm 9.6$ \％ |
| 10298 | AAD | LTE－FDD（SC－FDMA， $50 \%$ RB， 3 MHz ，QPSK） | LTE－FDD | 5.72 | $\pm 9.6$ \％ |
| 10299 | AAD | LTE－FDD（SC－FDMA， $50 \%$ RB， $3 \mathrm{MHz}, 16-\mathrm{QAM}$ ） | LTE－FDD | 6.39 | $\pm 9.6$ \％ |
| 10300 | AAD | LTE－FDD（SC－FDMA， $50 \%$ RB， $3 \mathrm{MHz}, 64-\mathrm{QAM}$ ） | LTE－FDD | 6.60 | $\pm 9.6$ \％ |
| 10301 | AAA | IEEE 802．16e WiMAX（ $29: 18,5 \mathrm{~ms}, 10 \mathrm{MHz}$, QPSK，PUSC） | WIMAX | 12.03 | $\pm 9.6 \%$ |
| 10302 | AAA | IEEE 802．16e WiMAX（ $29: 18,5 \mathrm{~ms}, 10 \mathrm{MHz}$ ，QPSK，PUSC，3CTRL） | WiMAX | 12.57 | $\pm 9.6$ \％ |
| 10303 | AAA | IEEE 802．16e WiMAX（ $31: 15,5 \mathrm{~ms}, 10 \mathrm{MHz}$ ，64QAM，PUSC） | WIMAX | 12.52 | $\pm 9.6$ \％ |
| 10304 | AAA | IEEE 802.16 e WIMAX（ $29: 18,5 \mathrm{~ms}, 10 \mathrm{MHz}, 64 \mathrm{QAM}, \mathrm{PUSC}$ ） | WIMAX | 11.86 | $\pm 9.6$ \％ |
| 10305 | AAA | IEEE 802．16e WIMAX（ $31: 15,10 \mathrm{~ms}, 10 \mathrm{MHz}, 64 \mathrm{QAM}, \mathrm{PUSC}$ ） | WIMAX | 15.24 | $\pm 9.6$ \％ |
| 10306 | AAA | IEEE 802．16e WIMAX（ $29: 18,10 \mathrm{~ms}, 10 \mathrm{MHz}$ ，64QAM，PUSC） | Wimax | 14.67 | $\pm 9.6$ \％ |
| 10307 | AAA | IEEE 802．16e WiMAX（ $29: 18,10 \mathrm{~ms}, 10 \mathrm{MHz}$ ，QPSK，PUSC） | WIMAX | 14.49 | $\pm 9.6$ \％ |
| 10308 | AAA | IEEE 802．16e WiMAX（ $29: 18,10 \mathrm{~ms}, 10 \mathrm{MHz}, 16 \mathrm{QAM}, \mathrm{PUSC})$ | WIMAX | 14.46 | $\pm 9.6$ \％ |
| 10309 | AAA | IEEE 802．16e WiMAX（ $29: 18,10 \mathrm{~ms}, 10 \mathrm{MHz}, 16 \mathrm{QAM}$, AMC $2 \times 3)$ | WIMAX | 14.58 | $\pm 9.6$ \％ |
| 10310 | AAA | IEEE 802．16e WiMAX（29：18， $10 \mathrm{~ms}, 10 \mathrm{MHz}$ ，QPSK，AMC $2 \times 3$ | WiMAX | 14.57 | $\pm 9.6$ \％ |
| 10311 | AAD | LTE－FDD（SC－FDMA， $100 \%$ RB， 15 MHz ，QPSK） | LTE－FDD | 6.06 | $\pm 9.6$ \％ |
| 10313 | AAA | IDEN 1：3 | iDEN | 10.51 | $\pm 9.6$ \％ |
| 10314 | AAA | iDEN 1：6 | iDEN | 13.48 | $\pm 9.6$ \％ |
| 10315 | AAB | IEEE 802．11b WiFi 2．4 GHz（DSSS， 1 Mbps，96pc dc） | WLAN | 1.71 | $\pm 9.6$ \％ |
| 10316 | AAB | IEEE 802．11g WiFi 2.4 GHz （ERP－OFDM， $6 \mathrm{Mbps}, 96 \mathrm{pc} \mathrm{dc}$ ） | WLAN | 8.36 | $\pm 9.6$ \％ |
| 10317 | AAD | IEEE 802．11a WiFi 5 GHz （OFDM， $6 \mathrm{Mbps}, 96 \mathrm{pc} \mathrm{dc})$ | WLAN | 8.36 | $\pm 9.6$ \％ |
| 10352 | AAA | Pulse Waveform（ $200 \mathrm{~Hz}, 10 \%$ ） | Generic | 10.00 | $\pm 9.6$ \％ |
| 10353 | AAA | Pulse Waveform（ $200 \mathrm{~Hz}, 20 \%$ ） | Generic | 6.99 | $\pm 9.6$ \％ |
| 10354 | AAA | Pulse Waveform（ $200 \mathrm{~Hz}, 40 \%$ ） | Generic | 3.98 | $\pm 9.6$ \％ |
| 10355 | AAA | Pulse Waveform（ $200 \mathrm{~Hz}, 60 \%$ ） | Generic | 2.22 | $\pm 9.6$ \％ |
| 10356 | AAA | Pulse Waveform（ $200 \mathrm{~Hz}, 80 \%$ ） | Generic | 0.97 | $\pm 9.6$ \％ |
| 10387 | AAA | QPSK Waveform， 1 MHz | Generic | 5.10 | $\pm 9.6$ \％ |
| 10388 | AAA | QPSK Waveform， 10 MHz | Generic | 5.22 | $\pm 9.6$ \％ |
| 10396 | AAA | 64－QAM Waveform， 100 kHz | Generic | 6.27 | $\pm 9.6$ \％ |
| 10399 | AAA | 64－QAM Waveform， 40 MHz | Generic | 6.27 | $\pm 9.6$ \％ |
| 10400 | AAE | IEEE 802．11ac WiFi（20MHz，64－QAM，99pc dc） | WLAN | 8.37 | $\pm 9.6$ \％ |
| 10401 | AAE | IEEE 802．11ac WiFi（ $40 \mathrm{MHz}, 64-\mathrm{QAM}, 99 \mathrm{pc} \mathrm{dc}$ ） | WLAN | 8.60 | $\pm 9.6$ \％ |
| 10402 | AAE | IEEE 802．11ac WiFi（80MHz，64－QAM，99pc dc） | WLAN | 8.53 | $\pm 9.6$ \％ |
| 10403 | AAB | CDMA2000（1xEV－DO，Rev．0） | CDMA2000 | 3.76 | $\pm 9.6$ \％ |
| 10404 | AAB | CDMA2000（1xEV－DO，Rev．A） | CDMA2000 | 3.77 | $\pm 9.6$ \％ |
| 10406 | AAB | CDMA2000，RC3，SO32，SCH0，Full Rate | CDMA2000 | 5.22 | $\pm 9.6$ \％ |
| 10410 | AAG | LTE－TDD（SC－FDMA， 1 RB， 10 MHz ，QPSK，UL Sub＝2，3，4，7，8，9） | LTE－TDD | 7.82 | $\pm 9.6$ \％ |


[^0]:    Certificate No：Z22－60107

