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Accreditation No.: **SCS 0108**

Glossary:

| | |
|-------|---------------------------------|
| TSL | tissue simulating liquid |
| ConvF | sensitivity in TSL / NORM x,y,z |
| N/A | not applicable or not measured |

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

- 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 $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

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

| | | |
|------------------------------|--|----------------------------------|
| DASY Version | DASY5 | V52.10.4 |
| Extrapolation | Advanced Extrapolation | |
| Phantom | Modular Flat Phantom V5.0 | |
| Distance Dipole Center - TSL | 10 mm | with Spacer |
| Zoom Scan Resolution | dx, dy = 4.0 mm, dz = 1.4 mm | Graded Ratio = 1.4 (Z direction) |
| Frequency | 5200 MHz ± 1 MHz 5250 MHz ± 1 MHz 5300 MHz ± 1 MHz 5500 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz 5800 MHz ± 1 MHz | |

Head TSL parameters at 5200 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 36.0 | 4.66 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 34.7 ± 6 % | 4.54 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | ---- | ---- |

SAR result with Head TSL at 5200 MHz

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 8.04 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 79.7 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.29 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 22.7 W/kg ± 19.5 % (k=2) |

Head TSL parameters at 5250 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.9 | 4.71 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 34.6 ± 6 % | 4.59 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | ---- | ---- |

SAR result with Head TSL at 5250 MHz

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|---------------------------------|
| SAR measured | 100 mW input power | 8.01 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 79.5 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---|--------------------|---------------------------------|
| SAR measured | 100 mW input power | 2.29 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 22.7 W/kg ± 19.5 % (k=2) |

Head TSL parameters at 5300 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.9 | 4.76 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 34.6 ± 6 % | 4.64 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | ---- | ---- |

SAR result with Head TSL at 5300 MHz

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|---------------------------------|
| SAR measured | 100 mW input power | 8.25 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 81.8 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---|--------------------|---------------------------------|
| SAR measured | 100 mW input power | 2.35 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 23.2 W/kg ± 19.5 % (k=2) |

Head TSL parameters at 5500 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.6 | 4.96 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 34.3 ± 6 % | 4.85 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | ---- | ---- |

SAR result with Head TSL at 5500 MHz

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|---------------------------------|
| SAR measured | 100 mW input power | 8.80 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 87.2 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---|--------------------|---------------------------------|
| SAR measured | 100 mW input power | 2.47 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 24.4 W/kg ± 19.5 % (k=2) |

Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.5 | 5.07 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 34.1 ± 6 % | 4.95 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | ---- | ---- |

SAR result with Head TSL at 5600 MHz

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|---------------------------------|
| SAR measured | 100 mW input power | 8.45 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 83.8 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---|--------------------|---------------------------------|
| SAR measured | 100 mW input power | 2.40 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 23.7 W/kg ± 19.5 % (k=2) |

Head TSL parameters at 5750 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.4 | 5.22 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 33.9 ± 6 % | 5.10 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | ---- | ---- |

SAR result with Head TSL at 5750 MHz

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|---------------------------------|
| SAR measured | 100 mW input power | 8.18 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 81.0 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---|--------------------|---------------------------------|
| SAR measured | 100 mW input power | 2.30 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 22.7 W/kg ± 19.5 % (k=2) |

Head TSL parameters at 5800 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.3 | 5.27 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 33.8 ± 6 % | 5.15 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | ---- | ---- |

SAR result with Head TSL at 5800 MHz

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|---------------------------------|
| SAR measured | 100 mW input power | 8.19 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 81.1 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---|--------------------|---------------------------------|
| SAR measured | 100 mW input power | 2.31 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 22.8 W/kg ± 19.5 % (k=2) |

Appendix (Additional assessments outside the scope of SCS 0108)**Antenna Parameters with Head TSL at 5200 MHz**

| | |
|--------------------------------------|--------------------------------|
| Impedance, transformed to feed point | 47.6 Ω - 6.2 j Ω |
| Return Loss | - 23.3 dB |

Antenna Parameters with Head TSL at 5250 MHz

| | |
|--------------------------------------|--------------------------------|
| Impedance, transformed to feed point | 46.9 Ω - 4.8 j Ω |
| Return Loss | - 24.5 dB |

Antenna Parameters with Head TSL at 5300 MHz

| | |
|--------------------------------------|--------------------------------|
| Impedance, transformed to feed point | 46.2 Ω - 3.3 j Ω |
| Return Loss | - 25.6 dB |

Antenna Parameters with Head TSL at 5500 MHz

| | |
|--------------------------------------|--------------------------------|
| Impedance, transformed to feed point | 49.1 Ω - 4.2 j Ω |
| Return Loss | - 27.3 dB |

Antenna Parameters with Head TSL at 5600 MHz

| | |
|--------------------------------------|--------------------------------|
| Impedance, transformed to feed point | 53.9 Ω + 0.4 j Ω |
| Return Loss | - 28.4 dB |

Antenna Parameters with Head TSL at 5750 MHz

| | |
|--------------------------------------|--------------------------------|
| Impedance, transformed to feed point | 51.8 Ω - 0.8 j Ω |
| Return Loss | - 34.3 dB |

Antenna Parameters with Head TSL at 5800 MHz

| | |
|--------------------------------------|--------------------------------|
| Impedance, transformed to feed point | 50.9 Ω - 2.7 j Ω |
| Return Loss | - 31.0 dB |

General Antenna Parameters and Design

| | |
|----------------------------------|----------|
| Electrical Delay (one direction) | 1.201 ns |
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint 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 feedpoint may be damaged.

Additional EUT Data

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

DASY5 Validation Report for Head TSL

Date: 22.06.2021

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1060

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5250 MHz, Frequency: 5300 MHz, Frequency: 5500 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz, Frequency: 5800 MHz

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.54$ S/m; $\epsilon_r = 34.7$; $\rho = 1000$ kg/m³,Medium parameters used: $f = 5250$ MHz; $\sigma = 4.59$ S/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³,Medium parameters used: $f = 5300$ MHz; $\sigma = 4.64$ S/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³,Medium parameters used: $f = 5500$ MHz; $\sigma = 4.85$ S/m; $\epsilon_r = 34.3$; $\rho = 1000$ kg/m³,Medium parameters used: $f = 5600$ MHz; $\sigma = 4.95$ S/m; $\epsilon_r = 34.1$; $\rho = 1000$ kg/m³,Medium parameters used: $f = 5750$ MHz; $\sigma = 5.1$ S/m; $\epsilon_r = 33.9$; $\rho = 1000$ kg/m³,Medium parameters used: $f = 5800$ MHz; $\sigma = 5.15$ S/m; $\epsilon_r = 33.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(5.8, 5.8, 5.8) @ 5200 MHz, ConvF(5.5, 5.5, 5.5) @ 5250 MHz, ConvF(5.49, 5.49, 5.49) @ 5300 MHz, ConvF(5.25, 5.25, 5.25) @ 5500 MHz, ConvF(5.1, 5.1, 5.1) @ 5600 MHz, ConvF(5.08, 5.08, 5.08) @ 5750 MHz, ConvF(5.01, 5.01, 5.01) @ 5800 MHz; Calibrated: 30.12.2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 02.11.2020
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 78.84 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 28.2 W/kg

SAR(1 g) = 8.04 W/kg; SAR(10 g) = 2.29 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 69.1%

Maximum value of SAR (measured) = 18.5 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 80.04 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 27.2 W/kg

SAR(1 g) = 8.01 W/kg; SAR(10 g) = 2.29 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 70.3%

Maximum value of SAR (measured) = 18.2 W/kg

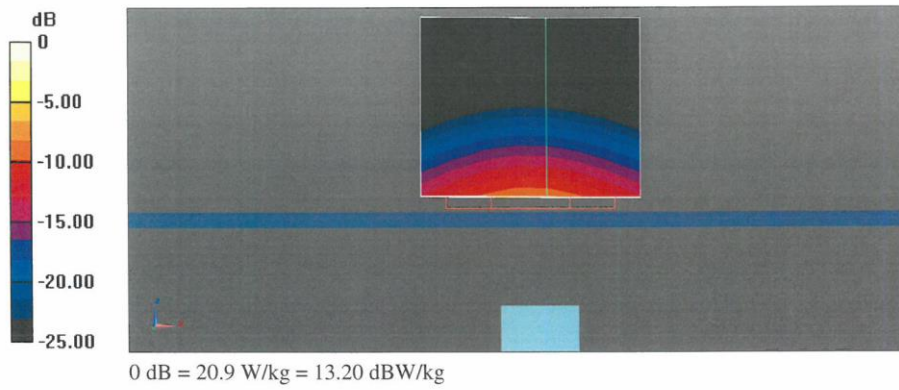
Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 80.15 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 28.9 W/kg
SAR(1 g) = 8.25 W/kg; SAR(10 g) = 2.35 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 69.1%
Maximum value of SAR (measured) = 19.1 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5500 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 80.07 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 33.6 W/kg
SAR(1 g) = 8.80 W/kg; SAR(10 g) = 2.47 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 66.4%
Maximum value of SAR (measured) = 20.9 W/kg

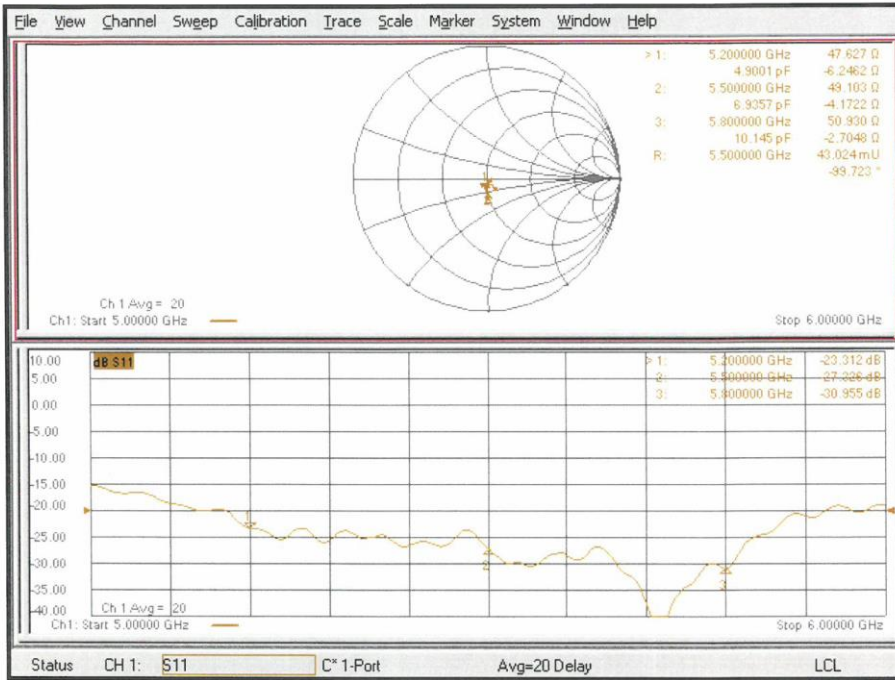
Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 80.82 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 30.8 W/kg
SAR(1 g) = 8.45 W/kg; SAR(10 g) = 2.40 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 67.5%
Maximum value of SAR (measured) = 19.9 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 78.22 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 31.8 W/kg
SAR(1 g) = 8.18 W/kg; SAR(10 g) = 2.30 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 65.8%
Maximum value of SAR (measured) = 19.5 W/kg

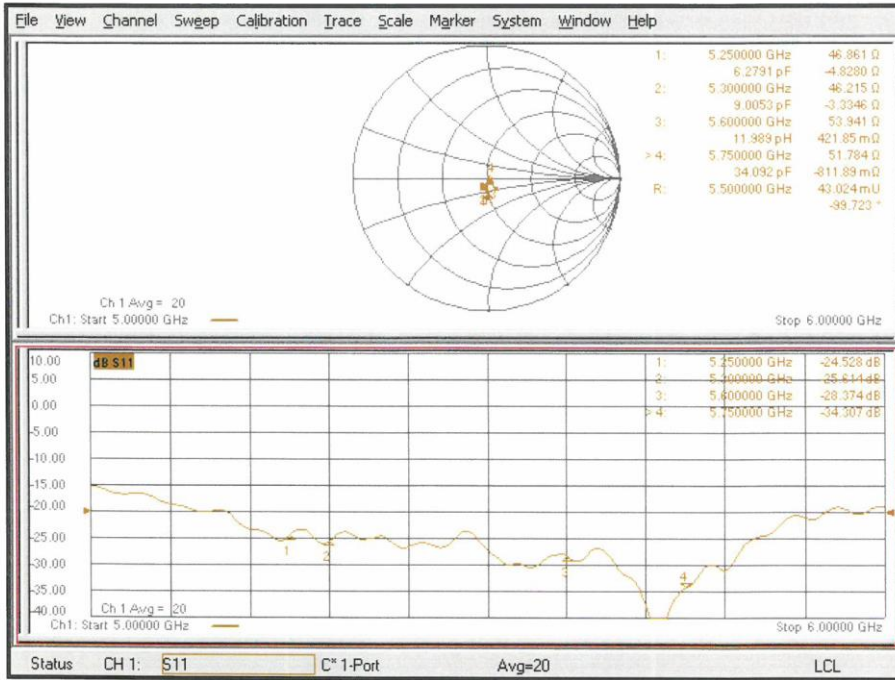
Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 77.53 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 31.9 W/kg
SAR(1 g) = 8.19 W/kg; SAR(10 g) = 2.31 W/kg
Smallest distance from peaks to all points 3 dB below = 7.4 mm
Ratio of SAR at M2 to SAR at M1 = 65.4%
Maximum value of SAR (measured) = 19.2 W/kg



Impedance Measurement Plot for Head TSL (5200, 5500, 5800 MHz)



Impedance Measurement Plot for Head TSL (5250, 5300, 5600, 5750 MHz)



ANNEX I Newly add bands and ENDC

I.1 Dielectric Performance and System Validation

Table I.1-1: Dielectric Performance of Head Tissue Simulating Liquid

| Measurement Date (yyyy-mm-dd) | Type | Frequency | Permittivity ϵ | Drift (%) | Conductivity σ (S/m) | Drift (%) |
|-------------------------------|------|-----------|-------------------------|-----------|-----------------------------|-----------|
| 2022-2-18 | Head | 835 MHz | 44.69 | 7.69% | 0.8571 | -4.77% |
| 2022-2-19 | Head | 1750 MHz | 42.37 | 5.71% | 1.373 | 0.22% |
| 2022-2-20 | Head | 1900 MHz | 42.08 | 5.20% | 1.481 | 5.79% |

Table I.1-2: System Validation of Head

| Measurement Date (yyyy-mm-dd) | Frequency | Target value (W/kg) | | Measured value(W/kg) | | Deviation | |
|-------------------------------|-----------|---------------------|-------------|----------------------|-------------|--------------|-------------|
| | | 10 g Average | 1 g Average | 10 g Average | 1 g Average | 10 g Average | 1 g Average |
| 2022-2-18 | 835 MHz | 6.24 | 9.63 | 6.36 | 9.84 | 1.92% | 2.18% |
| 2022-2-19 | 1750 MHz | 19.4 | 36.9 | 18.8 | 36.1 | -2.89% | -2.11% |
| 2022-2-20 | 1900 MHz | 20.9 | 40.1 | 20.6 | 39.3 | -1.63% | -2.04% |

I.2 Conductive output power

Table.2: Summary of Receiver detection mechanism

| Antenna | Receiver on (head scenario) | Receiver off + Hotspot on (Body/other scenario) | Receiver off + Hotspot off (Body/other scenario) |
|------------|--------------------------------|--|---|
| Standalone | DSI3 | DSI2 | DSI1 |
| UL CA/ENDC | DSI6 | DSI5 | DSI4 |

Maximum Target Power for Production Unit

| Band | Tune up (dBm) | | | | | |
|------|---------------|------|------|------|------|------|
| | DSI1 | DSI2 | DSI3 | DSI4 | DSI5 | DSI6 |
| n2 | 22.8 | 20 | 20 | 22.8 | 20 | 20 |
| n5 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 21 |
| n70 | 22.8 | 21.5 | 21.5 | / | / | / |

| 5G n2-DSI1/DSI4 | | | | | | | |
|-----------------|-------------|-----------------------|-----------------|-------|---------------------|-------------|---------------------|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Power Results (dBm) |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1907.5 | 381500 | 22.06 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1880 | 376000 | 22.37 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1852.5 | 370500 | 22.72 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1900 | 380000 | 22.07 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1880 | 376000 | 22.38 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1860 | 372000 | 22.51 |
| 15 | 5 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 1852.5 | 370500 | 22.69 |
| 15 | 5 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 1852.5 | 370500 | 21.7 |
| 15 | 5 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 1852.5 | 370500 | 20.33 |
| 15 | 5 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 1852.5 | 370500 | 18.35 |
| 15 | 5 | CP-OFDM QPSK | Inner_Full | 13_6 | 1852.5 | 370500 | 21.12 |
| 15 | 5 | CP-OFDM 16QAM | Inner_Full | 13_6 | 1852.5 | 370500 | 20.86 |
| 15 | 5 | CP-OFDM 64QAM | Inner_Full | 13_6 | 1852.5 | 370500 | 19.35 |
| 15 | 5 | CP-OFDM 256QAM | Inner_Full | 13_6 | 1852.5 | 370500 | 16.23 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_23 | 1852.5 | 370500 | 21.55 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 1852.5 | 370500 | 21.75 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_24 | 1852.5 | 370500 | 21.57 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 1852.5 | 370500 | 21.75 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_23 | 1852.5 | 370500 | 22.56 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 1852.5 | 370500 | 22.7 |
| 15 | 5 | DFT-s-OFDM QPSK | Outer_Full | 25_0 | 1852.5 | 370500 | 21.7 |
| 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 1855 | 371000 | 22.4 |
| 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 1857.5 | 381500 | 22.53 |

| 5G n2-DSI2/DSI3/DSI5/DSI6 | | | | | | | |
|---------------------------|-------------|-----------------------|-----------------|-------|---------------------|-------------|---------------------|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Power Results (dBm) |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1907.5 | 381500 | 18.65 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1880 | 376000 | 19.05 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1852.5 | 370500 | 19.51 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1900 | 380000 | 18.81 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1880 | 376000 | 19.08 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1860 | 372000 | 19.21 |
| 15 | 5 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 1852.5 | 370500 | 19.43 |
| 15 | 5 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 1852.5 | 370500 | 19.47 |
| 15 | 5 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 1852.5 | 370500 | 19.41 |
| 15 | 5 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 1852.5 | 370500 | 18.46 |
| 15 | 5 | CP-OFDM QPSK | Inner_Full | 13_6 | 1852.5 | 370500 | 19.41 |
| 15 | 5 | CP-OFDM 16QAM | Inner_Full | 13_6 | 1852.5 | 370500 | 19.45 |
| 15 | 5 | CP-OFDM 64QAM | Inner_Full | 13_6 | 1852.5 | 370500 | 19.38 |
| 15 | 5 | CP-OFDM 256QAM | Inner_Full | 13_6 | 1852.5 | 370500 | 16.49 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_23 | 1852.5 | 370500 | 19.32 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 1852.5 | 370500 | 19.49 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_24 | 1852.5 | 370500 | 19.24 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 1852.5 | 370500 | 19.47 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_23 | 1852.5 | 370500 | 19.23 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 1852.5 | 370500 | 19.43 |
| 15 | 5 | DFT-s-OFDM QPSK | Outer_Full | 25_0 | 1852.5 | 370500 | 19.44 |
| 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 1855 | 371000 | 19.21 |
| 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 1857.5 | 381500 | 19.35 |

| 5G n5-DSI1/DSI2/DSI3/DSI4/DSI5 | | | | | | | |
|--------------------------------|-------------|-----------------------|-----------------|-------|---------------------|-------------|---------------------|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Power Results (dBm) |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 846.5 | 169300 | 23.85 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 836.5 | 167300 | 23.82 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 826.5 | 165300 | 23.99 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 839 | 167800 | 23.82 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 836.5 | 167300 | 23.87 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 834 | 166800 | 23.84 |
| 15 | 5 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 826.5 | 165300 | 23.98 |
| 15 | 5 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 826.5 | 165300 | 22.89 |
| 15 | 5 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 826.5 | 165300 | 21.41 |
| 15 | 5 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 826.5 | 165300 | 19.42 |
| 15 | 5 | CP-OFDM QPSK | Inner_Full | 12_6 | 826.5 | 165300 | 22.41 |
| 15 | 5 | CP-OFDM 16QAM | Inner_Full | 12_6 | 826.5 | 165300 | 21.95 |
| 15 | 5 | CP-OFDM 64QAM | Inner_Full | 12_6 | 826.5 | 165300 | 20.41 |
| 15 | 5 | CP-OFDM 256QAM | Inner_Full | 12_6 | 826.5 | 165300 | 17.31 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_23 | 826.5 | 165300 | 22.87 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 826.5 | 165300 | 22.78 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_24 | 826.5 | 165300 | 22.82 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 826.5 | 165300 | 22.79 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_23 | 826.5 | 165300 | 23.87 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 826.5 | 165300 | 23.84 |
| 15 | 5 | DFT-s-OFDM QPSK | Outer_Full | 25_0 | 826.5 | 165300 | 22.93 |
| 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 829 | 165800 | 23.73 |
| 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 831.5 | 166300 | 23.87 |

| 5G n5-DSI6 | | | | | | | |
|------------|-------------|-----------------------|-----------------|-------|---------------------|-------------|---------------------|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Power Results (dBm) |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 846.5 | 169300 | 20.78 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 836.5 | 167300 | 20.73 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 826.5 | 165300 | 20.89 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 839 | 167800 | 20.73 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 836.5 | 167300 | 20.72 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 834 | 166800 | 20.74 |
| 15 | 5 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 826.5 | 165300 | 20.84 |
| 15 | 5 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 826.5 | 165300 | 20.74 |
| 15 | 5 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 826.5 | 165300 | 20.73 |
| 15 | 5 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 826.5 | 165300 | 19.39 |
| 15 | 5 | CP-OFDM QPSK | Inner_Full | 12_6 | 826.5 | 165300 | 20.75 |
| 15 | 5 | CP-OFDM 16QAM | Inner_Full | 12_6 | 826.5 | 165300 | 20.85 |
| 15 | 5 | CP-OFDM 64QAM | Inner_Full | 12_6 | 826.5 | 165300 | 20.37 |
| 15 | 5 | CP-OFDM 256QAM | Inner_Full | 12_6 | 826.5 | 165300 | 17.25 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_23 | 826.5 | 165300 | 20.75 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 826.5 | 165300 | 20.63 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_24 | 826.5 | 165300 | 20.73 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 826.5 | 165300 | 20.63 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_23 | 826.5 | 165300 | 20.75 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 826.5 | 165300 | 20.63 |
| 15 | 5 | DFT-s-OFDM QPSK | Outer_Full | 25_0 | 826.5 | 165300 | 20.80 |
| 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 829 | 165800 | 20.59 |
| 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 831.5 | 166300 | 20.73 |