

TEST REPORT

Report No.: SHE20100017-02SE

Date: 2021-03-15

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| | | | | | | | | | | | | | |
|-----------------|------------|----|----|------|-------|-------|-------|-------|------|------|------|--------------|-----|
| 802.11ac(VHT20) | Front Side | 10 | 36 | 5180 | -0.17 | 0.088 | 10.64 | 11.00 | 1.09 | 84.3 | 1.19 | 0.110 | 32# |
| | Back Side | 10 | 36 | 5180 | -0.11 | 0.061 | 10.64 | 11.00 | 1.09 | 84.3 | 1.19 | 0.066 | |
| | Left Side | 10 | 36 | 5180 | 0.13 | 0.083 | 10.64 | 11.00 | 1.09 | 84.3 | 1.19 | 0.090 | |
| | Top Edge | 10 | 36 | 5180 | 0.10 | 0.017 | 10.64 | 11.00 | 1.09 | 84.3 | 1.19 | 0.018 | |

WLAN 5.8 GHz

| Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | Meas. SAR 1 g (W/Kg) | Meas. Power (dBm) | Max. tune-up Power (dBm) | Scaling Factor | Duty Cycle (%) | Duty Cycle Factor | Report SAR 1 g (W/Kg) | Meas. No. |
|--------------------------------|-------------|------------|-----|-------------|------------------|----------------------|-------------------|--------------------------|----------------|----------------|-------------------|-----------------------|-----------|
| Head | | | | | | | | | | | | | |
| 802.11ac(VHT20) | Left Cheek | 0 | 149 | 5745 | -0.13 | 0.071 | 11.69 | 12.00 | 1.07 | 84.2 | 1.19 | 0.076 | |
| | Left Tilt | 0 | 149 | 5745 | -0.11 | 0.036 | 11.69 | 12.00 | 1.07 | 84.2 | 1.19 | 0.039 | |
| | Right Cheek | 0 | 149 | 5745 | -0.13 | 0.174 | 11.69 | 12.00 | 1.07 | 84.2 | 1.19 | 0.187 | 33# |
| | Right Tilt | 0 | 149 | 5745 | 0.11 | 0.056 | 11.69 | 12.00 | 1.07 | 84.2 | 1.19 | 0.060 | |
| Body-Worn & Hotspot | | | | | | | | | | | | | |
| 802.11ac(VHT20) | Front Side | 10 | 149 | 5745 | -0.15 | 0.056 | 11.69 | 12.00 | 1.07 | 84.2 | 1.19 | 0.060 | |
| | Back Side | 10 | 149 | 5745 | -0.06 | 0.068 | 11.69 | 12.00 | 1.07 | 84.2 | 1.19 | 0.073 | |
| | Left Side | 10 | 149 | 5745 | 0.13 | 0.102 | 11.69 | 12.00 | 1.07 | 84.2 | 1.19 | 0.110 | 34# |
| | Top Edge | 10 | 149 | 5745 | 0.15 | 0.022 | 11.69 | 12.00 | 1.07 | 84.2 | 1.19 | 0.024 | |

Note(s):

1. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
 - a. When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
 - b. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
3. Per KDB 248227 D01 5G WLAN Subsequent Test Configuration Procedures SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units.
 - a. When SAR test exclusion provisions of KDB Publication 447498 D01 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.

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- b. When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

General Note(s):

- The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Publication 865664 D01v01r04 and FCC KDB Publication 447498 D01v06.
- All modes of operation were investigated, and worst-case results are reported.
- The EUT is tested 2nd hot-spot peak, if it is less than 2 dB below the highest peak.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
- Per FCC KDB Publication 648474 D04v01r03, body worn SAR was evaluated without a headset connected to the device. Since the standalone reported SAR was ≤ 1.2 W/kg, no additional body worn SAR evaluations using a headset cable were required.
- Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than 0.8 W/kg.
- Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $>1/2$ dB, instead of the middle channel, the highest output power channel must be used.

Bluetooth

| Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | Meas. SAR 1 g (W/Kg) | Meas. Power (dBm) | Max. tune-up Power (dBm) | Scaling Factor | Duty Cycle (%) | Duty Cycle Factor | Report SAR 1 g (W/Kg) | Meas. No. |
|--------------------------------|-------------|------------|-----|-------------|------------------|----------------------|-------------------|--------------------------|----------------|----------------|-------------------|-----------------------|-----------|
| Head | | | | | | | | | | | | | |
| EDR | Left Cheek | 0 | 39 | 2441 | 0.11 | 0.056 | 12.20 | 12.50 | 1.07 | 78.7 | 1.27 | 0.060 | |
| | Left Tilt | 0 | 39 | 2441 | -0.14 | 0.030 | 12.20 | 12.50 | 1.07 | 78.7 | 1.27 | 0.032 | |
| | Right Cheek | 0 | 39 | 2441 | 0.01 | 0.130 | 12.20 | 12.50 | 1.07 | 78.7 | 1.27 | 0.139 | 35# |
| | Right Tilt | 0 | 39 | 2441 | -0.14 | 0.050 | 12.20 | 12.50 | 1.07 | 78.7 | 1.27 | 0.054 | |
| Body-Worn & Hotspot | | | | | | | | | | | | | |
| EDR | Front Side | 10 | 39 | 2441 | 0.14 | 0.039 | 12.20 | 12.50 | 1.07 | 78.7 | 1.27 | 0.042 | 36# |
| | Back Side | 10 | 39 | 2441 | 0.11 | 0.025 | 12.20 | 12.50 | 1.07 | 78.7 | 1.27 | 0.027 | |
| | Left Side | 10 | 39 | 2441 | -0.12 | 0.019 | 12.20 | 12.50 | 1.07 | 78.7 | 1.27 | 0.020 | |
| | Top Edge | 10 | 39 | 2441 | -0.16 | 0.013 | 12.20 | 12.50 | 1.07 | 78.7 | 1.27 | 0.014 | |

General Note(s):

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1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Publication 865664 D01v01r04 and FCC KDB Publication 447498 D01v06.
2. All modes of operation were investigated, and worst-case results are reported.
3. The EUT is tested 2nd hot-spot peak, if it is less than 2 dB below the highest peak.
4. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
5. Per FCC KDB Publication 648474 D04v01r03, body worn SAR was evaluated without a headset connected to the device. Since the standalone reported SAR was ≤ 1.2 W/kg, no additional body worn SAR evaluations using a headset cable were required.
6. Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than 0.8 W/kg.
7. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $> 1/2$ dB, instead of the middle channel, the highest output power channel must be used

6.5 SAR Measurement Variability

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

| Frequency band | Test Position | Mode | Ch. | Original 1g SAR (W/kg) | 1st Repeated 1g SAR (W/kg) | Largest to Smallest SAR Ratio |
|----------------|---------------|-------|-------|------------------------|----------------------------|-------------------------------|
| GSM 850 | Front | Voice | 251 | 0.752 | 0.765 | 1.02 |
| W B2 | Front | RMC | 9262 | 1.120 | 1.140 | 1.02 |
| LTE B2 | Front | QPSK | 18700 | 1.210 | 1.220 | 1.01 |
| LTE B4 | Front | QPSK | 20050 | 1.020 | 1.050 | 1.03 |
| LTE B5 | Front | QPSK | 20060 | 0.799 | 0.812 | 1.02 |

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| | | | | | | |
|---------|-------|------|-------|-------|-------|------|
| LTE B25 | Front | QPSK | 26140 | 1.250 | 1.240 | 1.01 |
|---------|-------|------|-------|-------|-------|------|

Note(s):

1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20.

6.6 Standalone SAR Test Exclusion Considerations and Estimated SAR

KDB 447498 D01v06 General RF Exposure Guidance v06, introduces a new formula for calculating the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$$\text{SPLSR} = (\text{SAR}_1 + \text{SAR}_2)^{1.5} / R_i$$

Where:

SAR₁ is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR₂ is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

R_i is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$

A new threshold of 0.04 is also introduced in the draft KDB. Thus, in order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$(\text{SAR}_1 + \text{SAR}_2)^{1.5} / R_i < 0.04$$

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6.7 Simultaneous Transmission SAR Considerations

Sum of the SAR for GSM + WLAN & Bluetooth

| Condition | Simultaneous Transmission Scenario (W/Kg) | | | | Max Σ 1-g SAR (W/Kg) | SPLSR (Yes/ No) |
|-----------|---|------------------|-------------------|-----------|-----------------------------------|--------------------|
| | GSM | WLAN DTS Band | WLAN UNII Band | Bluetooth | | |
| Head | 0.345 | 0.160 | 0.210 | 0.139 | 0.555 | No |
| Body-Worn | 0.832 | 0.133 | 0.110 | 0.042 | 0.965 | No |
| Hotspot | 0.584 | 0.133 | 0.110 | 0.042 | 0.717 | No |

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

Sum of the SAR for WCDMA + WLAN & Bluetooth

| Condition | Simultaneous Transmission Scenario (W/Kg) | | | | Max Σ 1-g SAR (W/Kg) | SPLSR (Yes/ No) |
|-----------|---|------------------|-------------------|-----------|-----------------------------------|--------------------|
| | WCDMA | WLAN DTS Band | WLAN UNII Band | Bluetooth | | |
| Head | 0.225 | 0.160 | 0.210 | 0.139 | 0.435 | No |
| Body-Worn | 1.251 | 0.133 | 0.110 | 0.042 | 1.384 | No |
| Hotspot | 1.251 | 0.133 | 0.110 | 0.042 | 1.384 | No |

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

Sum of the SAR for LTE + WLAN & Bluetooth

| Condition | Simultaneous Transmission Scenario (W/Kg) | | | | Max Σ 1-g SAR (W/Kg) | SPLSR (Yes/ No) |
|-----------|---|------------------|-------------------|-----------|-----------------------------------|--------------------|
| | LTE | WLAN DTS Band | WLAN UNII Band | Bluetooth | | |
| Head | 0.296 | 0.160 | 0.210 | 0.139 | 0.506 | No |
| Body-Worn | 1.361 | 0.133 | 0.110 | 0.042 | 1.494 | No |
| Hotspot | 1.361 | 0.133 | 0.110 | 0.042 | 1.494 | No |

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

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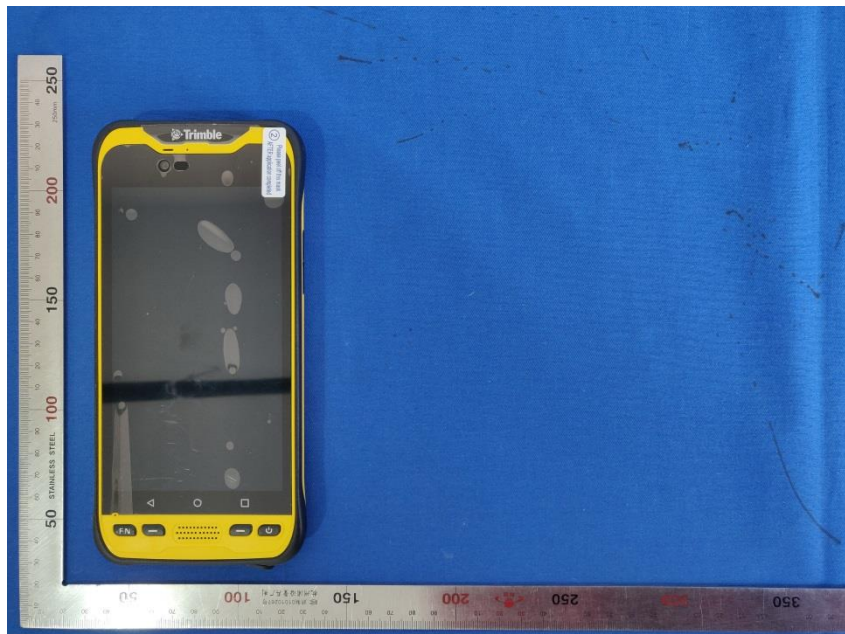
7 Appendixes

7.1 Liquid depth



7.2 Sample and Set-up Photos

TDC600_2 Model



Front of the sample

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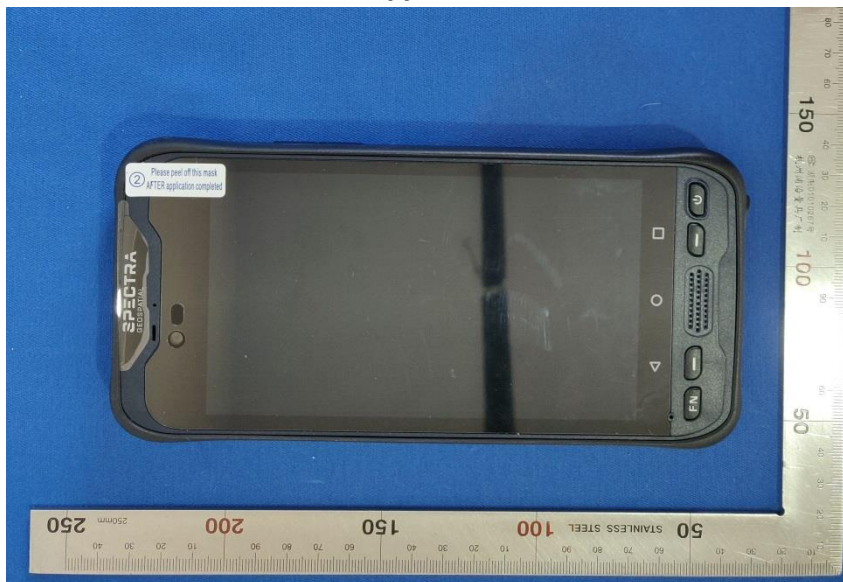
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Back of the sample

MobileMapper60_2 Model



Front of the sample

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Back of the sample



Right Touch

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Right Tilt



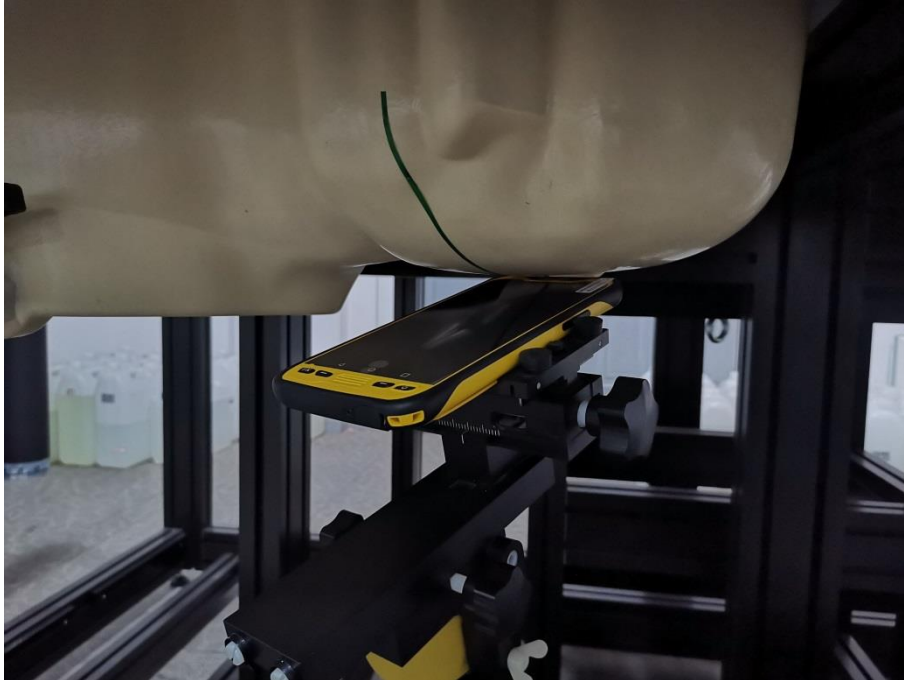
Left Touch

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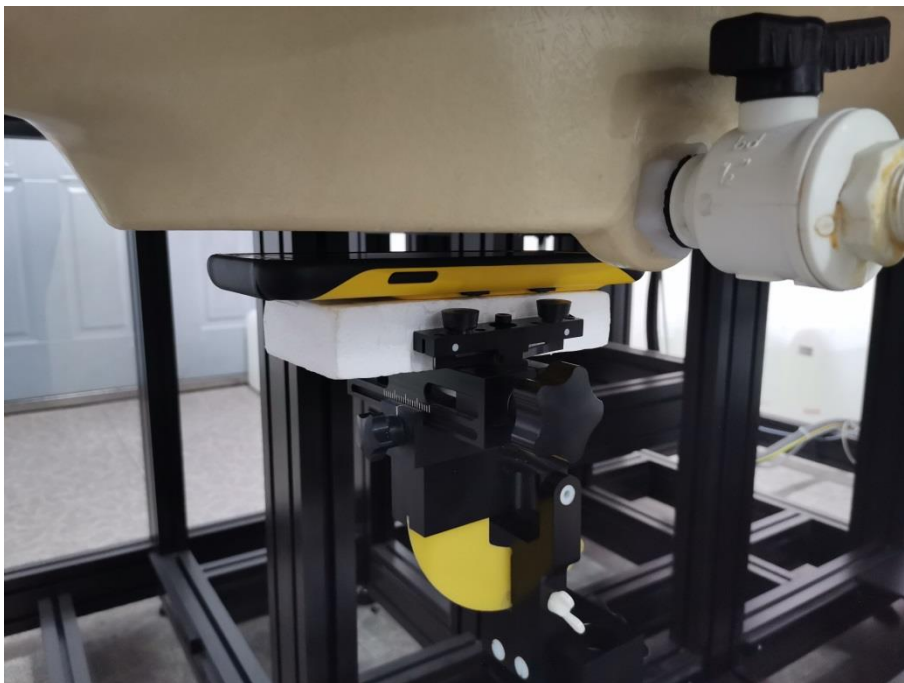
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Left Tilt



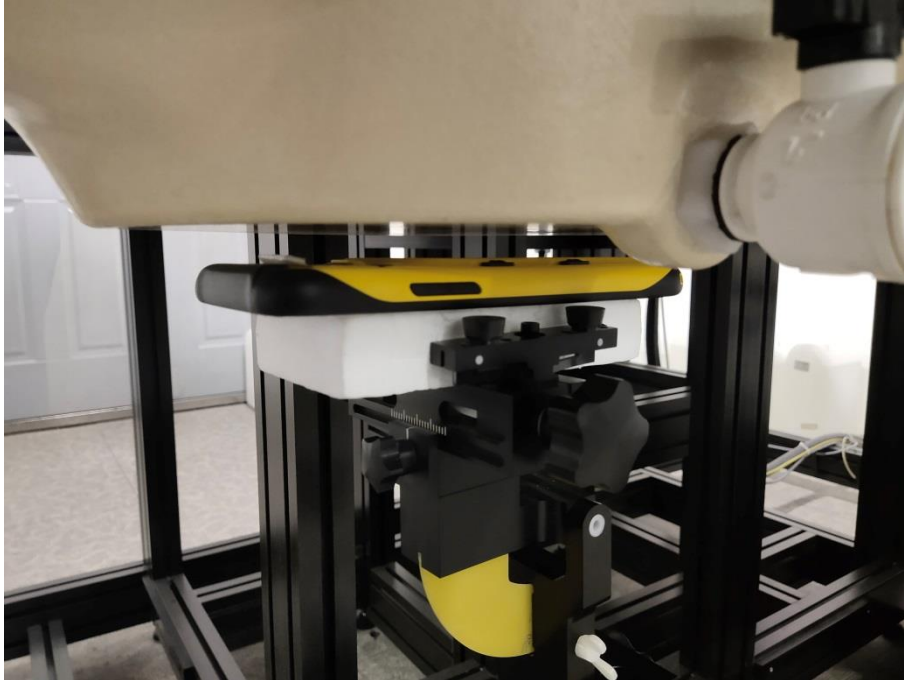
Front- 10mm

TEST REPORT

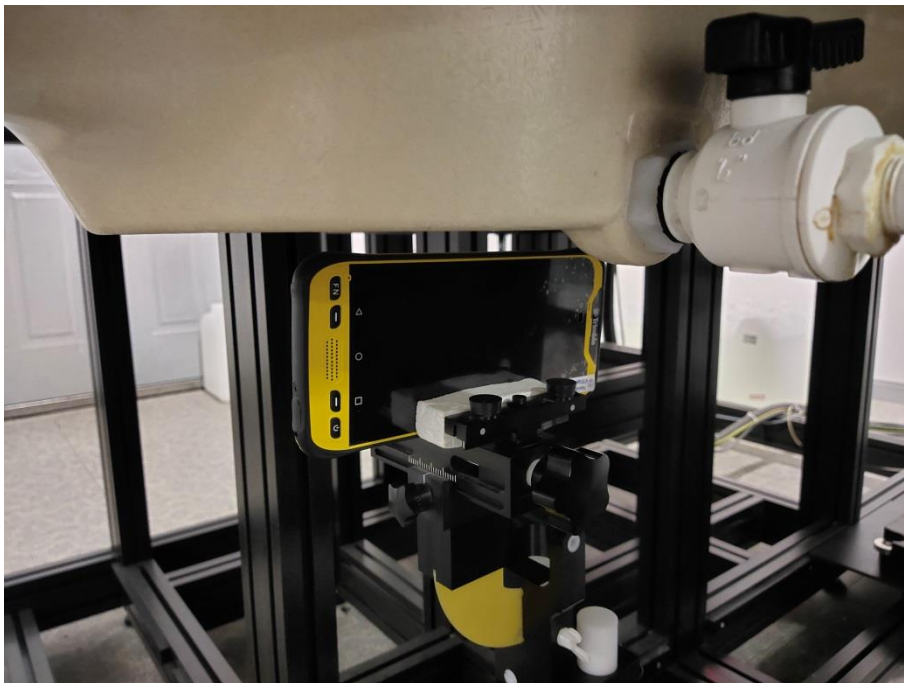
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Back - 10mm



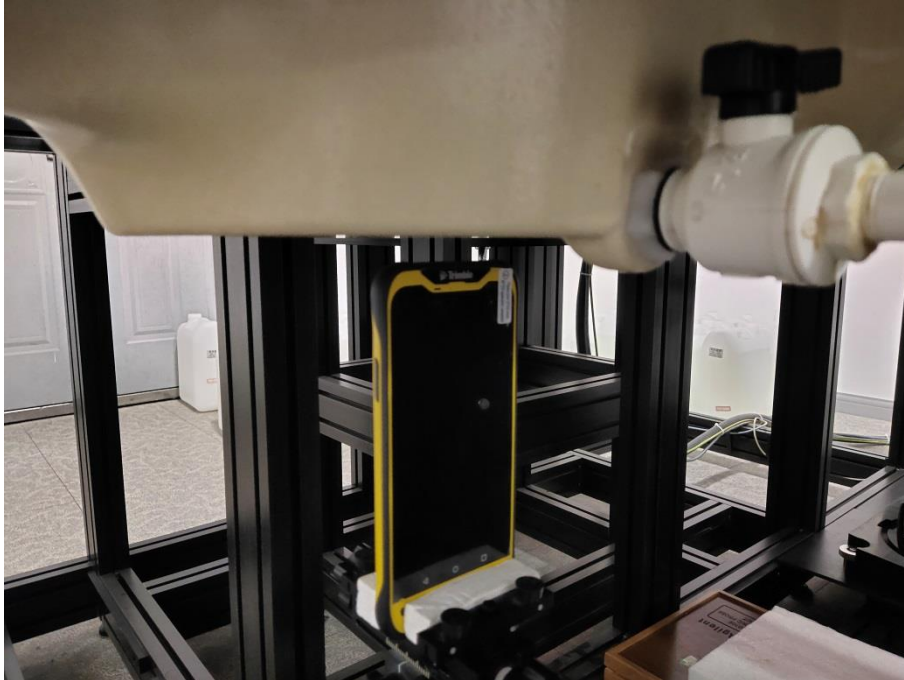
Left - 10mm

TEST REPORT

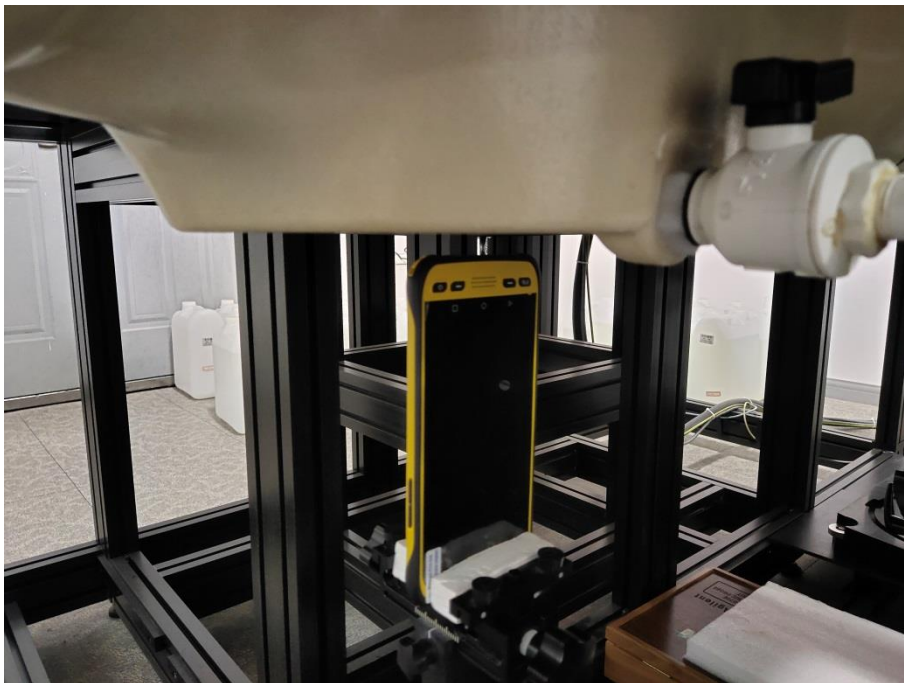
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Top- 10mm



Bottom - 10mm

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7.3 System Verification Plots

System Validation for 750MHz Head _2021-02-23

Measurement Report for D750V2 SN1055, FRONT, D750, UID 0 -, Channel 50 (750.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|-----------------------|------|----------|
| D750V2 SN1055, | 180.0 x 100.0 x 330.0 | / | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|------|------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 15.00 | D750 | CW, 0-- | 750.0, 50 | 10.16 | 0.92 | 42.84 |

Hardware Setup

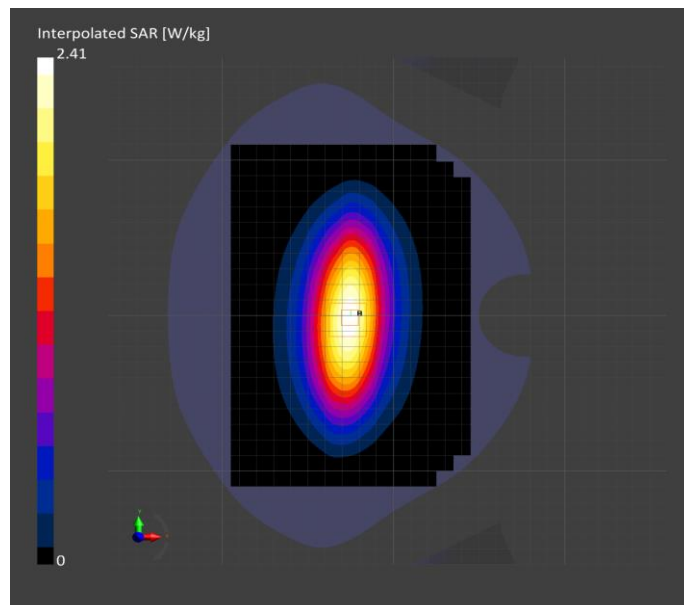
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 220.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 2.09 | 2.10 |
| psSAR10g [W/Kg] | 1.39 | 1.35 |
| Power Drift [dB] | -0.00 | -0.00 |
| M2/M1 [%] | | 17.5 |
| Dist 3dB Peak [mm] | | 62.3 |



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System Validation for 835MHz Head _2021-02-26

Measurement Report for D835V2 SN4d061, FRONT, D835, UID 0 -, Channel 50 (835.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|-----------------------|------|----------|
| D835V2 SN4d061, | 160.0 x 120.0 x 340.0 | / | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|------|------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 15.00 | D835 | CW, 0-- | 835.0, 50 | 9.79 | 0.92 | 42.04 |

Hardware Setup

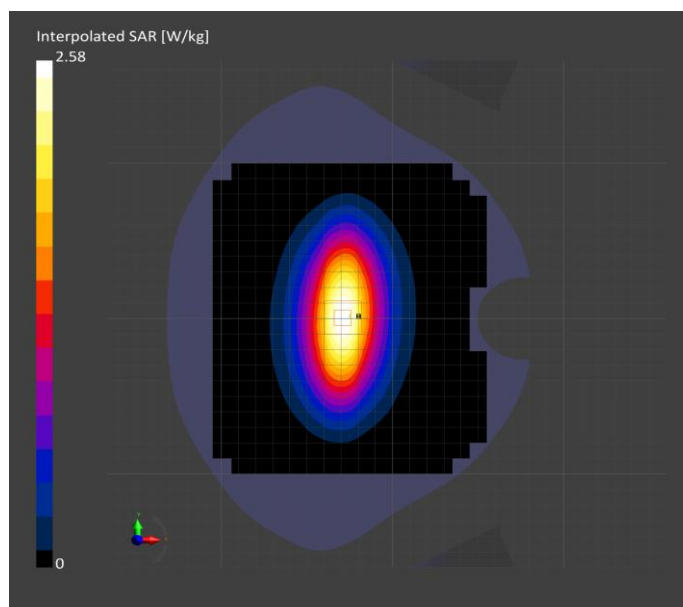
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 160.0 x 200.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 2.25 | 2.27 |
| psSAR10g [W/Kg] | 1.48 | 1.44 |
| Power Drift [dB] | -0.06 | -0.00 |
| M2/M1 [%] | | 18.6 |
| Dist 3dB Peak [mm] | | 61.8 |



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System Validation for 1800MHz Head _2021-02-24

Measurement Report for D1800V2 SN1d148, FRONT, D1800, UID 0 -, Channel 50 (1800.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|----------------------|------|----------|
| D1800V2 SN1d148, | 100.0 x 74.0 x 300.0 | / | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-------|------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10 mm | D1800 | CW, 0-- | 1800.0, 50 | 8.45 | 1.38 | 41.09 |

Hardware Setup

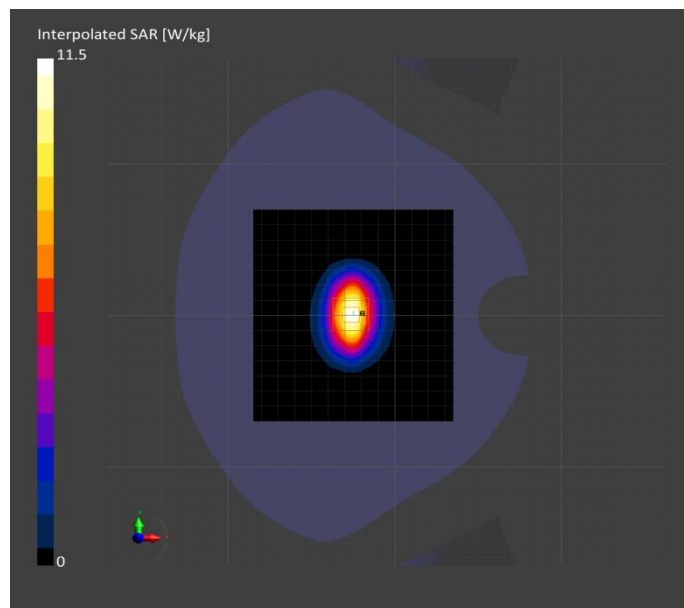
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 120.0 x 140.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | All points |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 9.12 | 9.17 |
| psSAR10g [W/Kg] | 4.83 | 4.73 |
| Power Drift [dB] | -0.03 | 0.02 |
| M2/M1 [%] | | 10.0 |
| Dist 3dB Peak [mm] | | 51.6 |



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System Validation for 1900MHz Head _2021-02-27

Measurement Report for D1900V2 SN5d092, FRONT, D1900, UID 0 -, Channel 50 (1900.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|----------------------|------|----------|
| D1900V2 SN5d092, | 100.0 x 68.0 x 300.0 | / | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Test Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-----------|------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10 mm | D1900 | CW, 0-- | 1900.0, 50 | 8.07 | 1.43 | 41.31 |

Hardware Setup

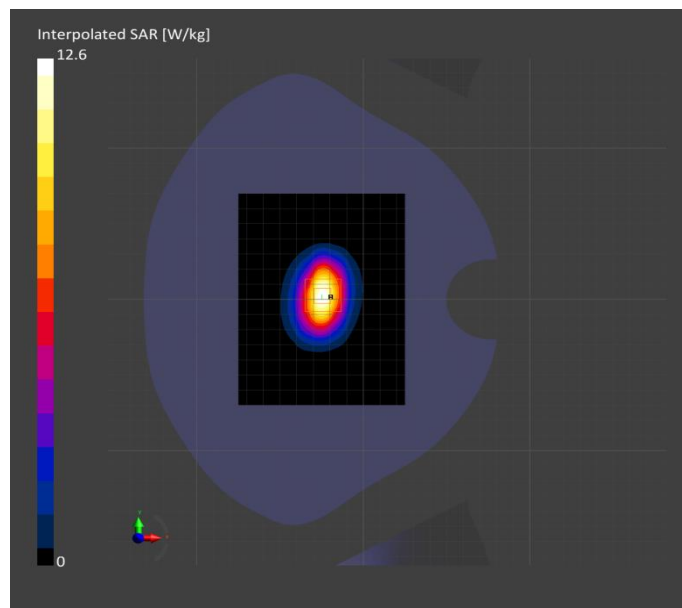
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 100.0 x 140.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 10.0 | 10.0 |
| psSAR10g [W/Kg] | 5.19 | 5.09 |
| Power Drift [dB] | -0.01 | 0.00 |
| M2/M1 [%] | | 9.0 |
| Dist 3dB Peak [mm] | | 51.5 |



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System Validation for 2450MHz Head _2021-03-02

Measurement Report for D2450V2 SN723, FRONT, D2450, UID 0 -, Channel 50 (2450.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|----------------------|------|----------|
| D2450V2 SN723, | 100.0 x 52.0 x 290.0 | / | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Test Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-----------|------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | D2450 | CW, 0-- | 2450.0, 50 | 7.65 | 1.73 | 38.84 |

Hardware Setup

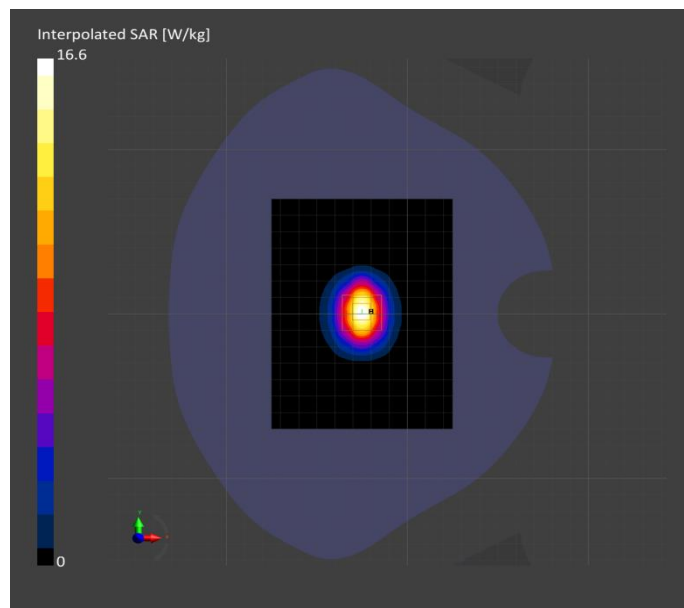
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 100.0 x 140.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 12.6 | 12.5 |
| psSAR10g [W/Kg] | 5.85 | 5.73 |
| Power Drift [dB] | -0.03 | -0.01 |
| M2/M1 [%] | | 9.0 |
| Dist 3dB Peak [mm] | | 47.6 |



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System Validation for 2600MHz Head _2021-03-04

Measurement Report for D2600V2 SN1142, FRONT, D2600, UID 0 -, Channel 50 (2600.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|----------------------|------|----------|
| D2600V2 SN1142, | 100.0 x 50.0 x 290.0 | / | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Test Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-----------|------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | D2600 | CW, 0-- | 2600.0, 50 | 7.45 | 1.97 | 40.64 |

Hardware Setup

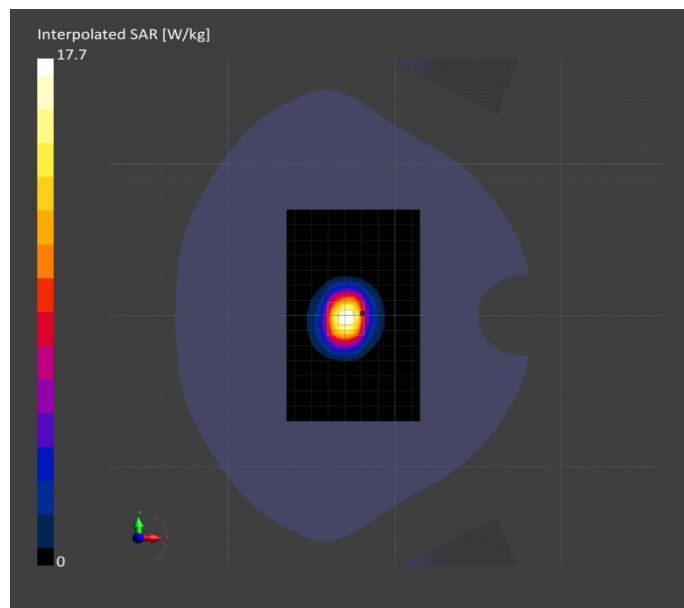
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|--------------|--------------------|
| Grid Extents [mm] | 80.0 x 140.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 13.9 | 13.8 |
| psSAR10g [W/Kg] | 6.48 | 6.17 |
| Power Drift [dB] | -0.17 | -0.00 |
| M2/M1 [%] | | 9.0 |
| Dist 3dB Peak [mm] | | 46.6 |



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System Validation for 5200MHz Head _2021-03-04

Measurement Report for D5GHzV2 SN1061, FRONT, D5GHz, UID 0 -, Channel 20 (5200.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|------|----------|
| D5GHzV2 SN1061, | 80.0 x 20.0 x 300.0 | / | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-------|------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | D5GHz | CW, 0-- | 5200.0, 20 | 5.53 | 4.56 | 35.34 |

Hardware Setup

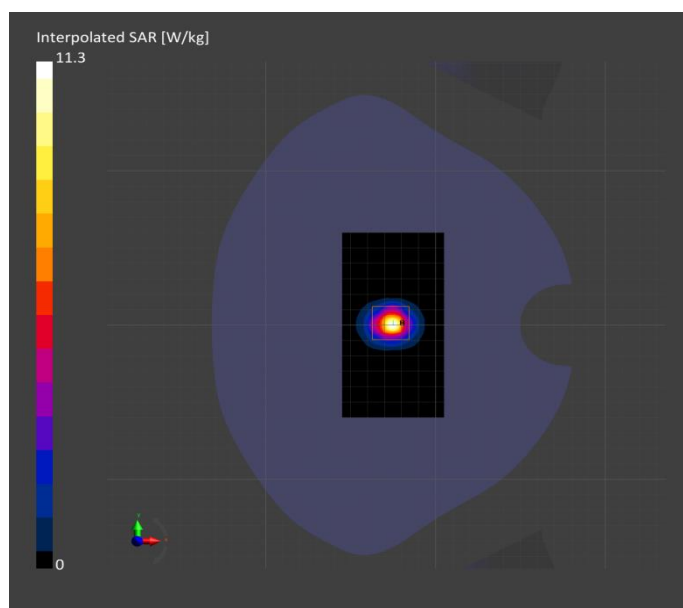
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|--------------|--------------------|
| Grid Extents [mm] | 60.0 x 120.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 4.0 x 4.0 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 6.91 | 7.40 |
| psSAR10g [W/Kg] | 2.00 | 2.12 |
| Power Drift [dB] | 0.00 | 0.02 |
| M2/M1 [%] | | 7.2 |
| Dist 3dB Peak [mm] | | 67.0 |



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System Validation for 5800MHz Head _2021-03-04

Measurement Report for D5GHzV2 SN1061, FRONT, D5GHz, UID 0 -, Channel 80 (5800.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|------|----------|
| D5GHzV2 SN1061, | 80.0 x 20.0 x 300.0 | / | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-------|------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | D5GHz | CW, 0-- | 5800.0, 80 | 4.75 | 5.18 | 34.67 |

Hardware Setup

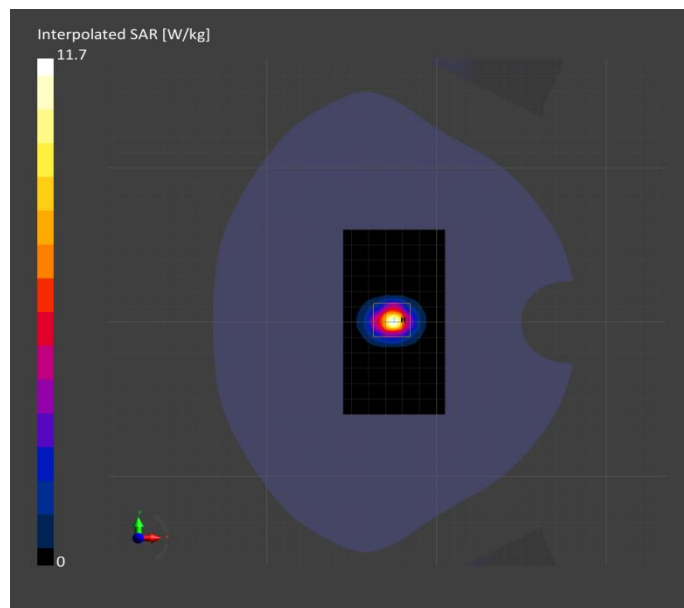
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|--------------|--------------------|
| Grid Extents [mm] | 60.0 x 120.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 4.0 x 4.0 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 7.39 | 7.90 |
| psSAR10g [W/Kg] | 2.11 | 2.23 |
| Power Drift [dB] | -0.00 | 0.01 |
| M2/M1 [%] | | 7.2 |
| Dist 3dB Peak [mm] | | 63.4 |



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7.4 Highest SAR Test Plots

Meas.1 Measurement Report for TDC600_2, CHEEK, GSM 850, UID 10021 DAC, Channel 251 (848.8MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|---------|----------------|---------------------------------|-------------------|------------------------|------------------|
| LeftHead, HSL | CHEEK, 0.00 | GSM 850 | GSM, 10021-DAC | 848.8, 251 | 9.79 | 0.93 | 42.64 |

Hardware Setup

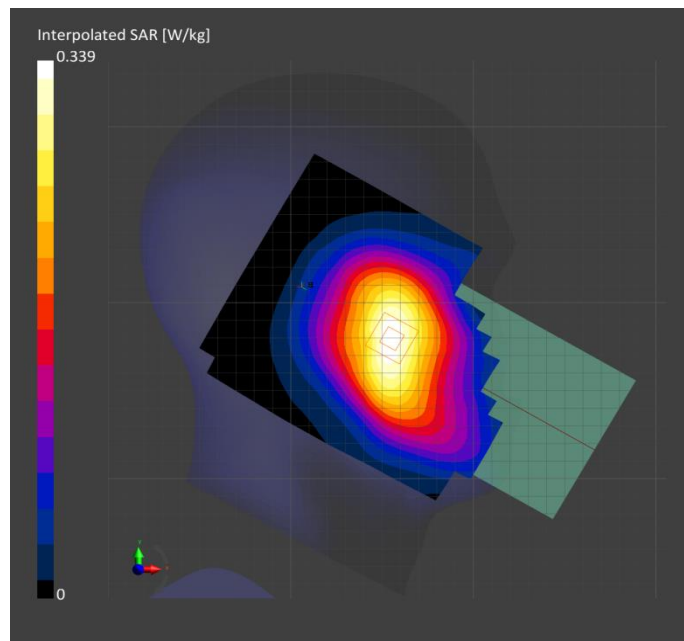
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.295 | 0.312 |
| psSAR10g [W/Kg] | 0.201 | 0.232 |
| Power Drift [dB] | -0.08 | -0.06 |
| M2/M1 [%] | | inf |
| Dist 3dB Peak [mm] | | 74.3 |



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Meas.2 Measurement Report for TDC600_2, FRONT, GSM 850, UID 10021 DAC, Channel 251 (848.8MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|---------|----------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | GSM 850 | GSM, 10021-DAC | 848.8, 251 | 9.79 | 0.93 | 42.64 |

Hardware Setup

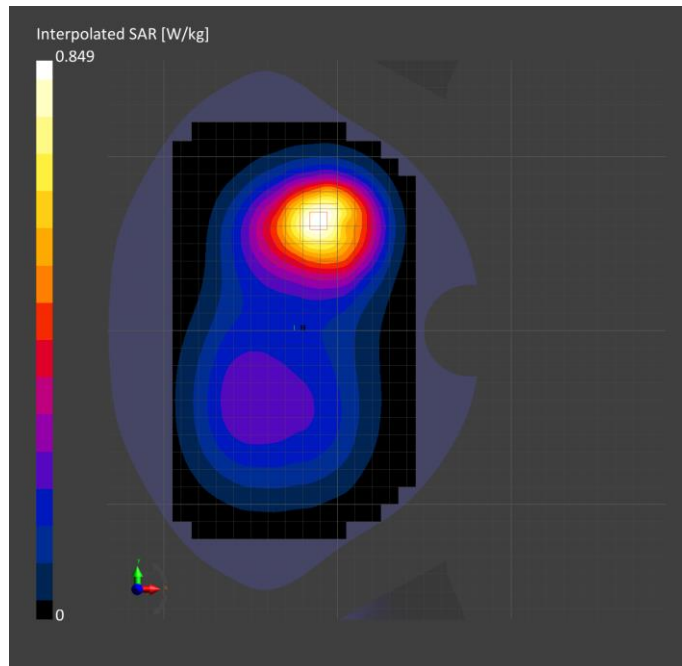
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.740 | 0.752 |
| psSAR10g [W/Kg] | 0.494 | 0.467 |
| Power Drift [dB] | -0.06 | -0.01 |
| M2/M1 [%] | | 19.8 |
| Dist 3dB Peak [mm] | | 60.2 |



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Meas.3 Measurement Report for TDC600_2, FRONT, GSM 850, UID 10024 DAC, Channel 128 (824.2MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|---------|----------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | GSM 850 | GSM, 10024-DAC | 824.2, 128 | 9.79 | 0.88 | 42.38 |

Hardware Setup

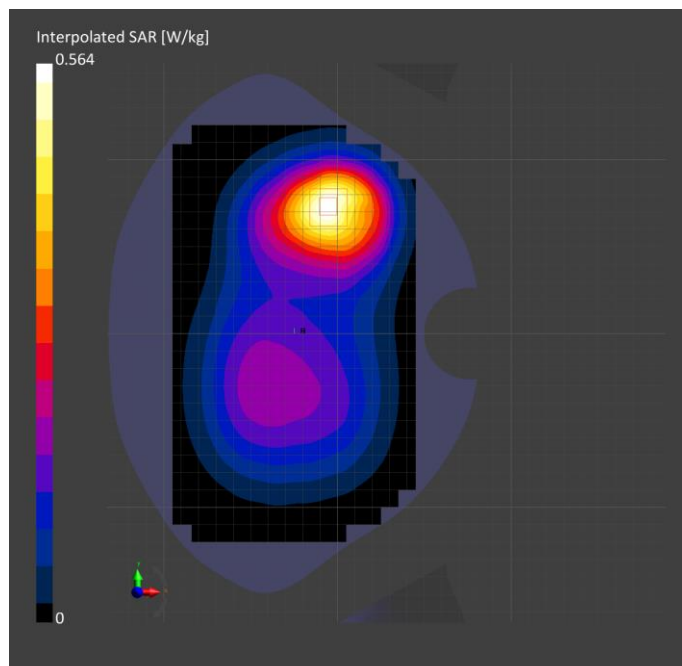
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.491 | 0.491 |
| psSAR10g [W/Kg] | 0.326 | 0.309 |
| Power Drift [dB] | -0.00 | -0.05 |
| M2/M1 [%] | | 19.8 |
| Dist 3dB Peak [mm] | | 61.0 |



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Meas.4 Measurement Report for TDC600_2, CHEEK, PCS 1900, UID 10021 DAC, Channel 512 (1850.2MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|----------|----------------|---------------------------------|-------------------|------------------------|------------------|
| LeftHead, HSL | CHEEK, 0.00 | PCS 1900 | GSM, 10021-DAC | 1850.2, 512 | 8.07 | 1.38 | 41.22 |

Hardware Setup

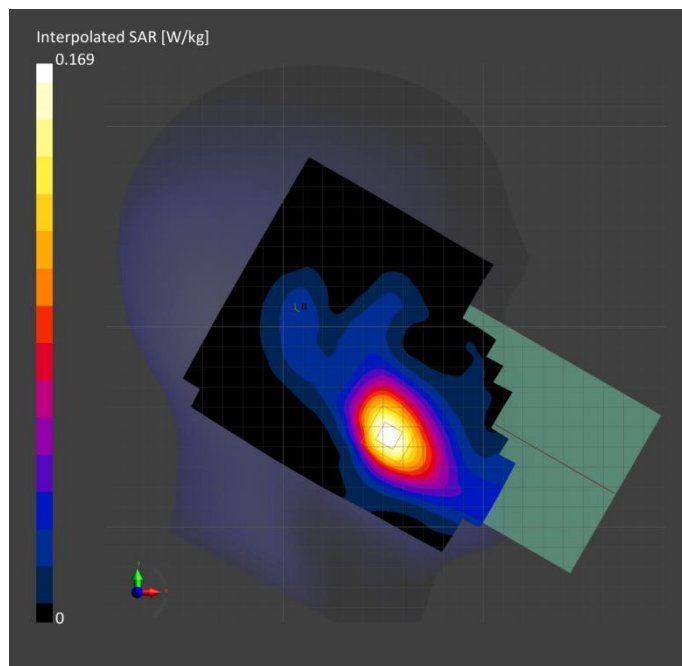
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | All points |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.138 | 0.144 |
| psSAR10g [W/Kg] | 0.079 | 0.087 |
| Power Drift [dB] | -0.13 | -0.15 |
| M2/M1 [%] | | 11.7 |
| Dist 3dB Peak [mm] | | 65.0 |



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Meas.5 Measurement Report for TDC600_2, FRONT, PCS 1900, UID 10021 DAC, Channel 512 (1850.2MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|----------|----------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | PCS 1900 | GSM, 10021-DAC | 1850.2, 512 | 8.07 | 1.38 | 41.22 |

Hardware Setup

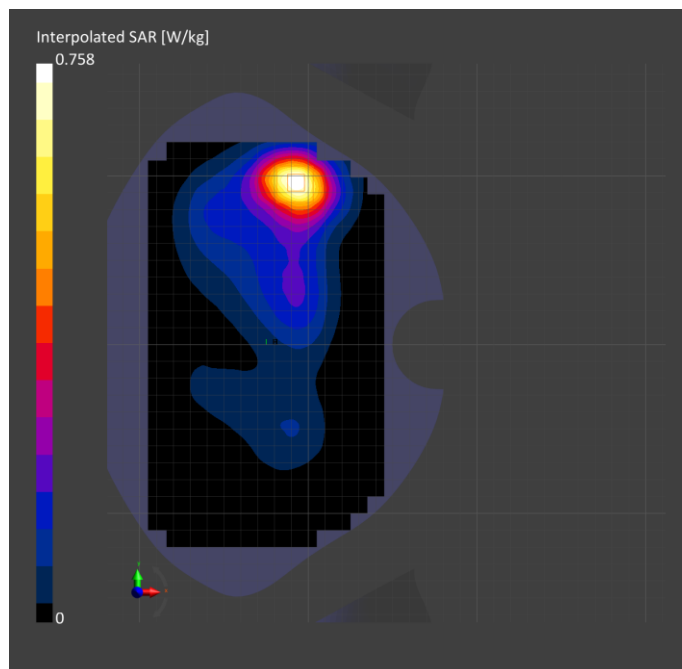
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.623 | 0.632 |
| psSAR10g [W/Kg] | 0.352 | 0.346 |
| Power Drift [dB] | -0.13 | -0.06 |
| M2/M1 [%] | | 13.2 |
| Dist 3dB Peak [mm] | | 56.0 |



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Meas.6 Measurement Report for TDC600_2, FRONT, PCS 1900, UID 10024 DAC, Channel 661 (1880.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|----------|----------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | PCS 1900 | GSM, 10024-DAC | 1880.0, 661 | 8.07 | 1.42 | 41.09 |

Hardware Setup

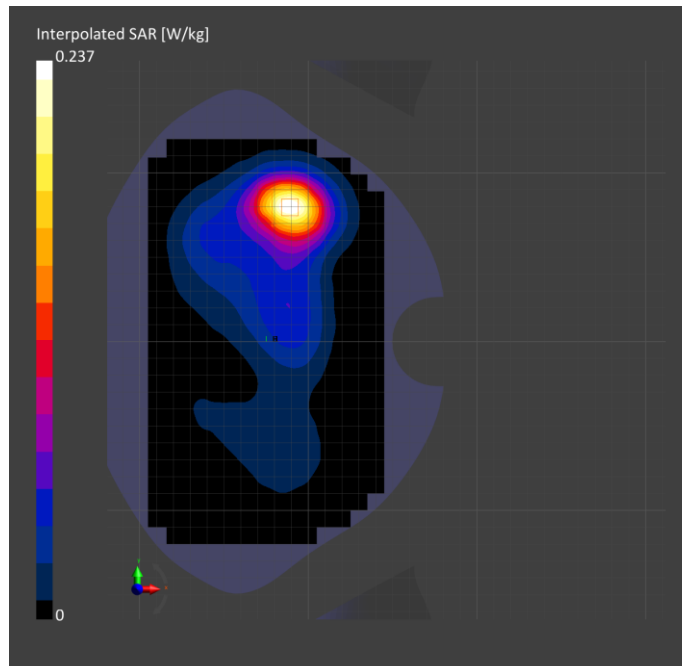
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.195 | 0.197 |
| psSAR10g [W/Kg] | 0.109 | 0.108 |
| Power Drift [dB] | -0.07 | -0.12 |
| M2/M1 [%] | | 13.9 |
| Dist 3dB Peak [mm] | | 56.3 |



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Meas.7 Measurement Report for TDC600_2, CHEEK, Band 2, UTRA/FDD, UID 10457 AAA, Channel 9538 (1907.6MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|---------|------------------|---------------------------------|-------------------|------------------------|------------------|
| LeftHead, HSL | CHEEK, 0.00 | Band 2, | WCDMA, 10457-AAA | 1907.6, 9538 | 8.07 | 1.45 | 40.82 |

Hardware Setup

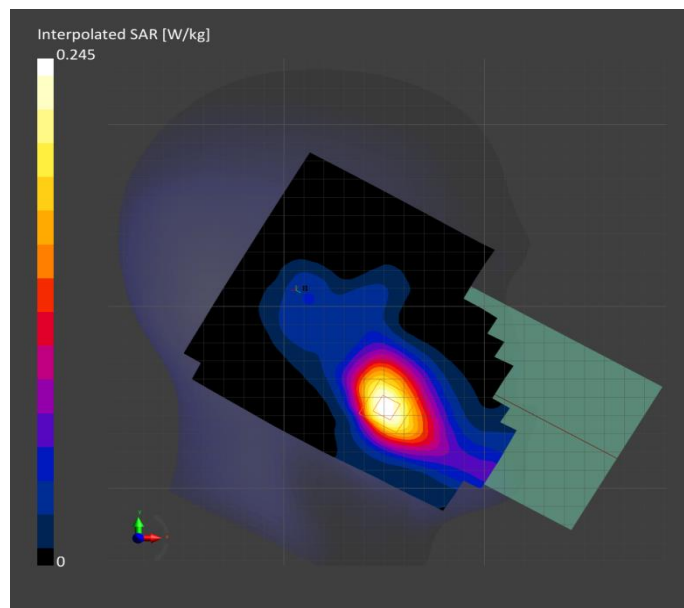
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.200 | 0.202 |
| psSAR10g [W/Kg] | 0.113 | 0.122 |
| Power Drift [dB] | -0.19 | -0.14 |
| M2/M1 [%] | | 11.9 |
| Dist 3dB Peak [mm] | | 67.1 |



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Meas.8 Measurement Report for TDC600_2, FRONT, Band 2, UTRA/FDD, UID 10011 CAB, Channel 9262 (1852.4MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|------------------|------------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | Band 2, UTRA/FDD | WCDMA, 10011-CAB | 1852.4, 9262 | 8.07 | 1.43 | 41.27 |

Hardware Setup

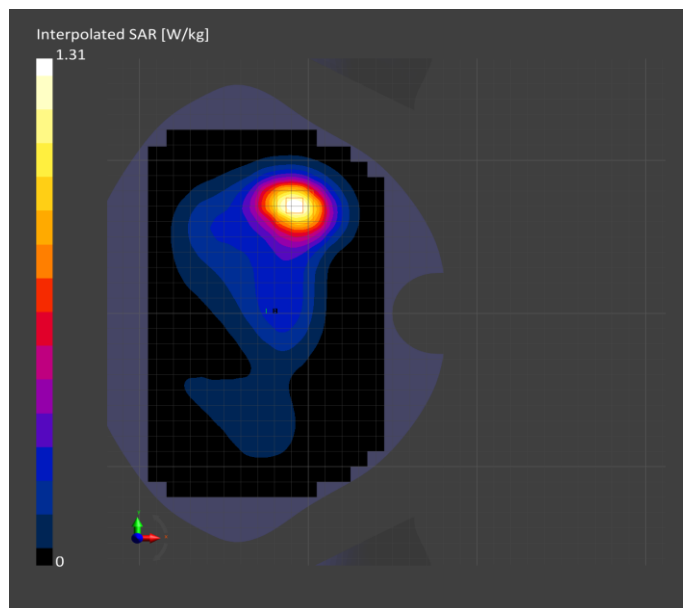
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 1.07 | 1.12 |
| psSAR10g [W/Kg] | 0.597 | 0.607 |
| Power Drift [dB] | 0.01 | 0.09 |
| M2/M1 [%] | | 13.0 |
| Dist 3dB Peak [mm] | | 55.1 |



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Meas.9 Measurement Report for TDC600_2, CHEEK, Band 5, UTRA/FDD, UID 10457 AAA, Channel 4183 (836.6MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|------------------|------------------|---------------------------------|-------------------|------------------------|------------------|
| LeftHead, HSL | CHEEK, 0.00 | Band 5, UTRA/FDD | WCDMA, 10457-AAA | 836.6, 4183 | 9.79 | 0.93 | 42.11 |

Hardware Setup

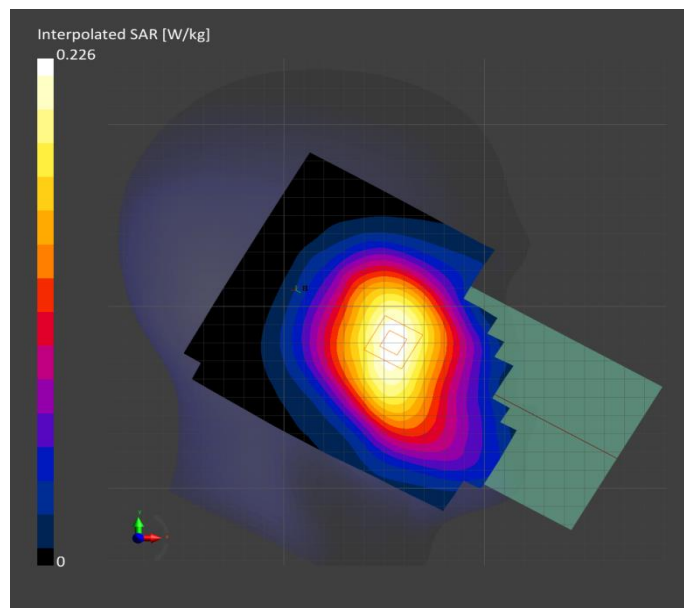
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.198 | 0.210 |
| psSAR10g [W/Kg] | 0.136 | 0.159 |
| Power Drift [dB] | -0.03 | -0.11 |
| M2/M1 [%] | | inf |
| Dist 3dB Peak [mm] | | 77.2 |



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Meas.10 Measurement Report for TDC600_2, FRONT, Band 5, UTRA/FDD, UID 10457 AAA, Channel 4183 (836.6MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|------------------|------------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | Band 5, UTRA/FDD | WCDMA, 10457-AAA | 836.6, 4183 | 9.79 | 0.93 | 42.11 |

Hardware Setup

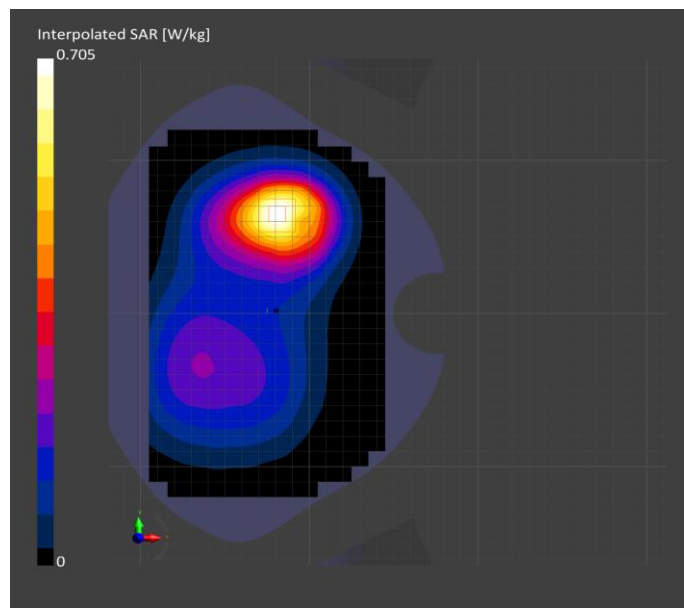
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.615 | 0.612 |
| psSAR10g [W/Kg] | 0.406 | 0.378 |
| Power Drift [dB] | -0.08 | -0.05 |
| M2/M1 [%] | | 19.4 |
| Dist 3dB Peak [mm] | | 58.6 |



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Meas.11 Measurement Report for TDC600_2, CHEEK, Band 2, E-UTRA/FDD, UID 10169 CAE, Channel 18900 (1880.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|--------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| LeftHead, HSL | CHEEK, 0.00 | Band 2, E-UTRA/FDD | LTE-FDD, 10169-CAE | 1880.0, 18900 | 8.07 | 1.42 | 41.09 |

Hardware Setup

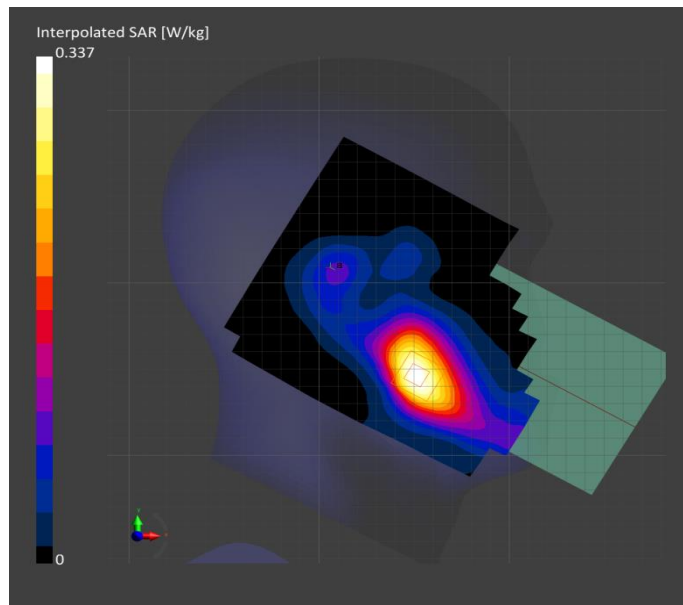
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.278 | 0.279 |
| psSAR10g [W/Kg] | 0.160 | 0.172 |
| Power Drift [dB] | -0.12 | 0.20 |
| M2/M1 [%] | | 11.9 |
| Dist 3dB Peak [mm] | | 66.9 |



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Meas.12 Measurement Report for TDC600_2, FRONT, Band 2, E-UTRA/FDD, UID 10169 CAE, Channel 18700 (1860.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|--------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | Band 2, E-UTRA/FDD | LTE-FDD, 10169-CAE | 1860.0, 18700 | 8.07 | 1.43 | 41.16 |

Hardware Setup

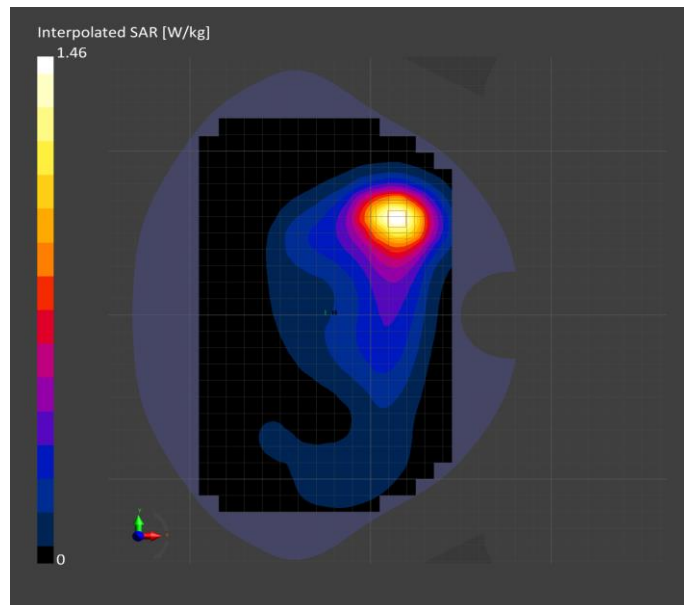
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 1.18 | 1.21 |
| psSAR10g [W/Kg] | 0.665 | 0.673 |
| Power Drift [dB] | 0.02 | 0.11 |
| M2/M1 [%] | | 14.6 |
| Dist 3dB Peak [mm] | | 56.3 |



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Meas.13 Measurement Report for TDC600_2, CHEEK, Band 4, E-UTRA/FDD, UID 10169 CAE, Channel 20175 (1732.5MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|--------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| LeftHead, HSL | CHEEK, 0.00 | Band 4, E-UTRA/FDD | LTE-FDD, 10169-CAE | 1732.5, 20175 | 8.45 | 1.38 | 40.92 |

Hardware Setup

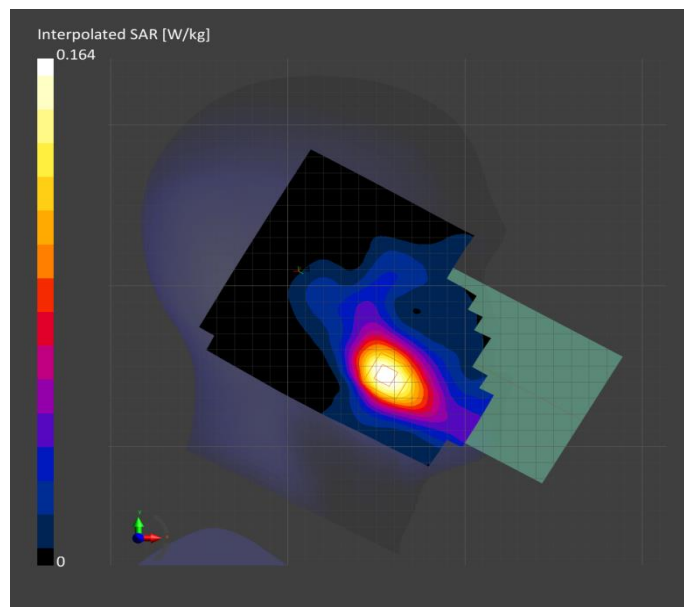
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.137 | 0.142 |
| psSAR10g [W/Kg] | 0.080 | 0.088 |
| Power Drift [dB] | -0.53 | 0.06 |
| M2/M1 [%] | | 13.4 |
| Dist 3dB Peak [mm] | | 67.3 |



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Meas.14 Measurement Report for TDC600_2, FRONT, Band 4, E-UTRA/FDD, UID 10169 CAE, Channel 20050 (1720.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|--------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | Band 4, E-UTRA/FDD | LTE-FDD, 10169-CAE | 1720.0, 20050 | 8.45 | 1.41 | 41.59 |

Hardware Setup

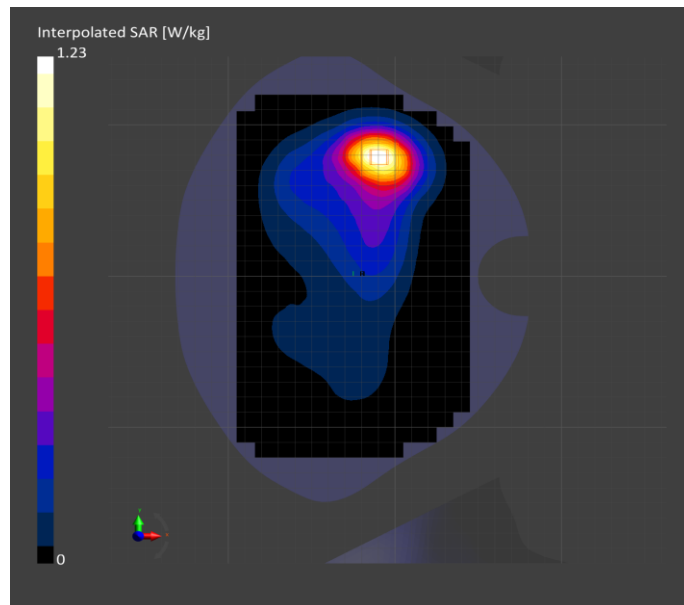
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 1.02 | 1.02 |
| psSAR10g [W/Kg] | 0.581 | 0.565 |
| Power Drift [dB] | -0.03 | -0.12 |
| M2/M1 [%] | | 13.6 |
| Dist 3dB Peak [mm] | | 56.1 |



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Meas.15 Measurement Report for TDC600_2, CHEEK, Band 5, E-UTRA/FDD, UID 10175 CAG, Channel 20525 (836.5MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|--------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| LeftHead, HSL | CHEEK, 0.00 | Band 5, E-UTRA/FDD | LTE-FDD, 10175-CAG | 836.5, 20525 | 9.79 | 0.93 | 42.05 |

Hardware Setup

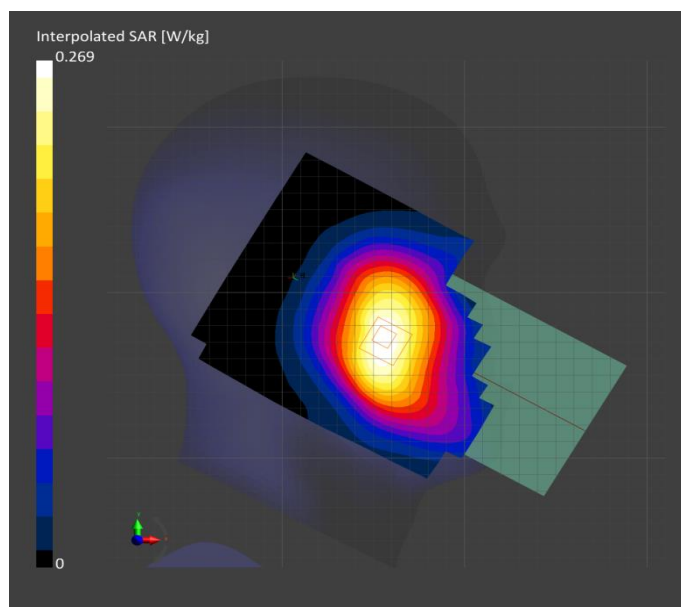
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.235 | 0.251 |
| psSAR10g [W/Kg] | 0.162 | 0.190 |
| Power Drift [dB] | 0.00 | -0.10 |
| M2/M1 [%] | | inf |
| Dist 3dB Peak [mm] | | 76.5 |



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Meas.16 Measurement Report for TDC600_2, FRONT, Band 5, E-UTRA/FDD, UID 10175 CAG, Channel 20600 (844.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|--------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | Band 5, E-UTRA/FDD | LTE-FDD, 10175-CAG | 844.0, 20600 | 9.79 | 0.94 | 42.60 |

Hardware Setup

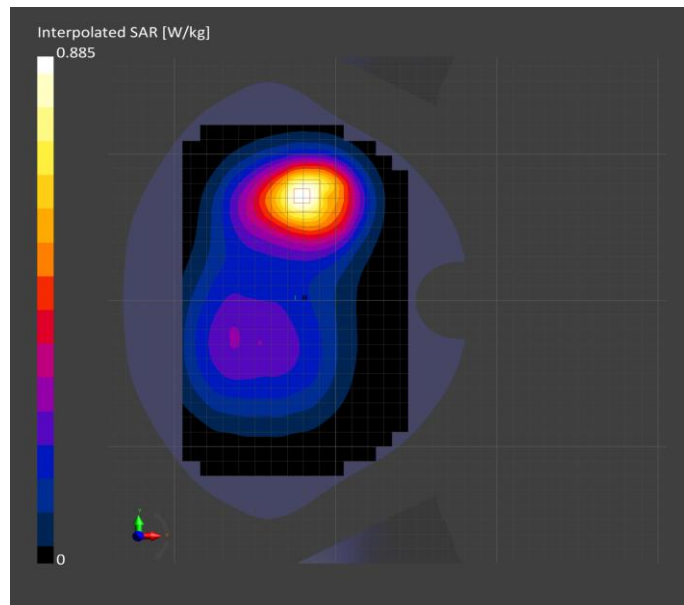
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.771 | 0.799 |
| psSAR10g [W/Kg] | 0.509 | 0.490 |
| Power Drift [dB] | -0.15 | -0.07 |
| M2/M1 [%] | | 19.1 |
| Dist 3dB Peak [mm] | | 57.9 |



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Meas.17 Measurement Report for TDC600_2, CHEEK, Band 7, E-UTRA/FDD, UID 10169 CAE, Channel 21350 (2560.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|--------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| LeftHead, HSL | CHEEK, 0.00 | Band 7, E-UTRA/FDD | LTE-FDD, 10169-CAE | 2560.0, 21350 | 7.45 | 1.95 | 40.66 |

Hardware Setup

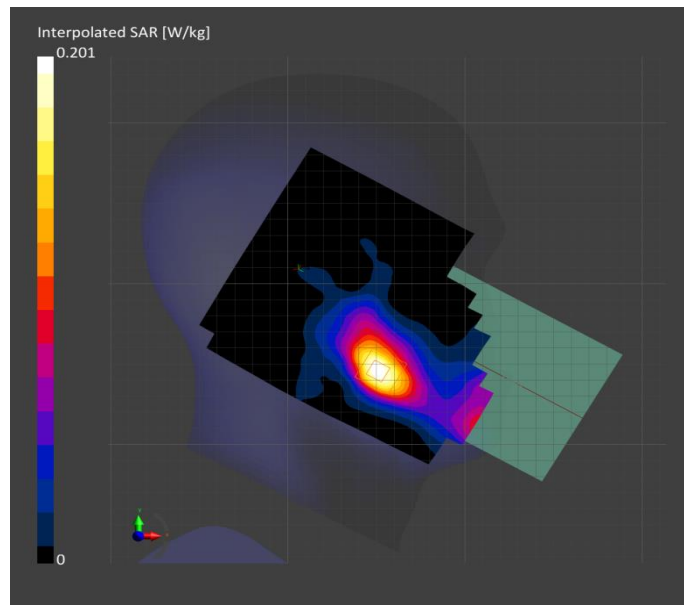
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.158 | 0.165 |
| psSAR10g [W/Kg] | 0.081 | 0.087 |
| Power Drift [dB] | 0.23 | -0.04 |
| M2/M1 [%] | | 10.5 |
| Dist 3dB Peak [mm] | | 56.6 |



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Meas.18 Measurement Report for TDC600_2, FRONT, Band 7, E-UTRA/FDD, UID 10169 CAE, Channel 21350 (2560.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|--------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | Band 7, E-UTRA/FDD | LTE-FDD, 10169-CAE | 2560.0, 21350 | 7.45 | 1.95 | 40.66 |

Hardware Setup

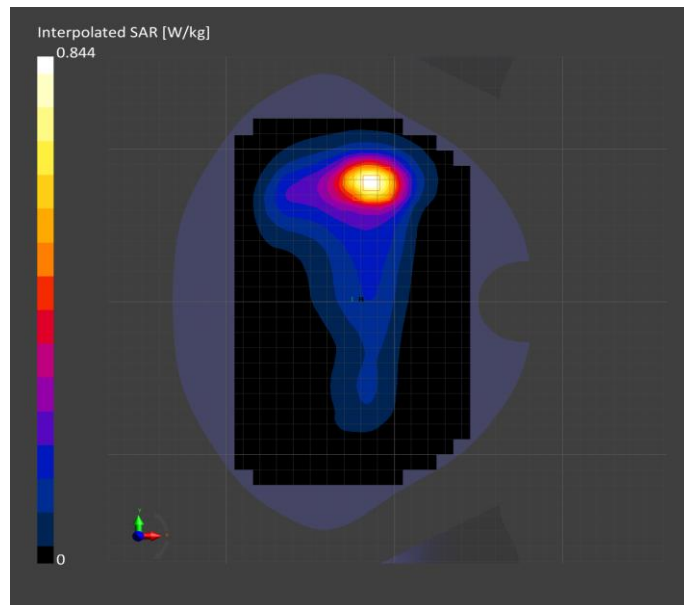
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.660 | 0.665 |
| psSAR10g [W/Kg] | 0.333 | 0.326 |
| Power Drift [dB] | -0.06 | -0.02 |
| M2/M1 [%] | | 13.0 |
| Dist 3dB Peak [mm] | | 49.4 |



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Meas.19 Measurement Report for TDC600_2, CHEEK, Band 12, E-UTRA/FDD, UID 10175 CAG, Channel 23095 (707.5MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|---------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| RightHead, HSL | CHEEK, 0.00 | Band 12, E-UTRA/FDD | LTE-FDD, 10175-CAG | 707.5, 23095 | 10.16 | 0.91 | 42.69 |

Hardware Setup

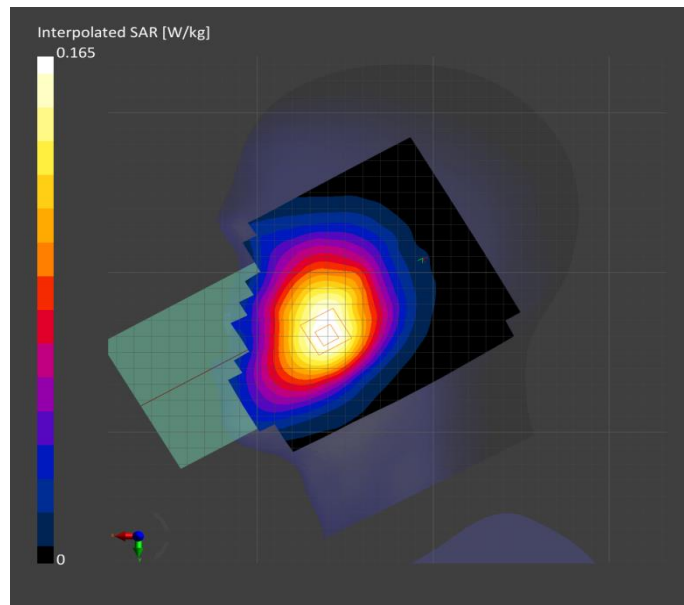
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.145 | 0.150 |
| psSAR10g [W/Kg] | 0.101 | 0.111 |
| Power Drift [dB] | -0.12 | -0.15 |
| M2/M1 [%] | | inf |
| Dist 3dB Peak [mm] | | 75.0 |



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Meas.20 Measurement Report for TDC600_2, FRONT, Band 12, E-UTRA/FDD, UID 10175 CAG, Channel 23095 (707.5MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|---------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | Band 12, E-UTRA/FDD | LTE-FDD, 10175-CAG | 707.5, 23095 | 10.16 | 0.91 | 42.69 |

Hardware Setup

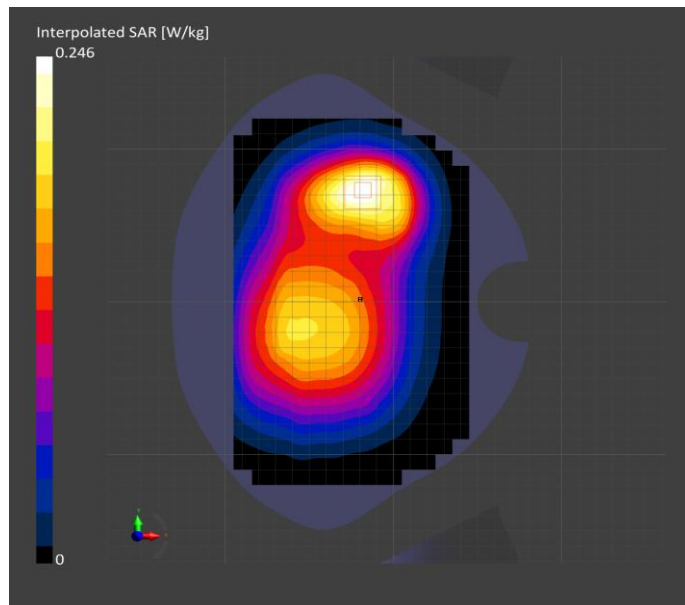
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.217 | 0.234 |
| psSAR10g [W/Kg] | 0.149 | 0.149 |
| Power Drift [dB] | -0.02 | 0.01 |
| M2/M1 [%] | | 21.3 |
| Dist 3dB Peak [mm] | | 59.4 |



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Meas.21 Measurement Report for TDC600_2, CHEEK, Band 13, E-UTRA/FDD, UID 10175 CAG, Channel 23230 (782.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|---------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| RightHead, HSL | CHEEK, 0.00 | Band 13, E-UTRA/FDD | LTE-FDD, 10175-CAG | 782.0, 23230 | 10.16 | 0.86 | 42.59 |

Hardware Setup

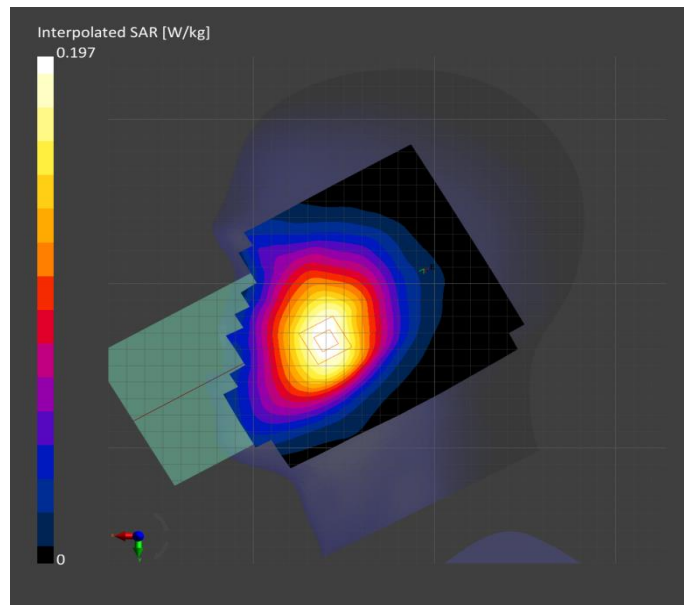
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.173 | 0.184 |
| psSAR10g [W/Kg] | 0.120 | 0.138 |
| Power Drift [dB] | -0.03 | -0.03 |
| M2/M1 [%] | | inf |
| Dist 3dB Peak [mm] | | 75.1 |



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Meas.22 Measurement Report for TDC600_2, FRONT, Band 13, E-UTRA/FDD, UID 10175 CAG, Channel 23230 (782.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|---------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | Band 13, E-UTRA/FDD | LTE-FDD, 10175-CAG | 782.0, 23230 | 10.16 | 0.86 | 42.59 |

Hardware Setup

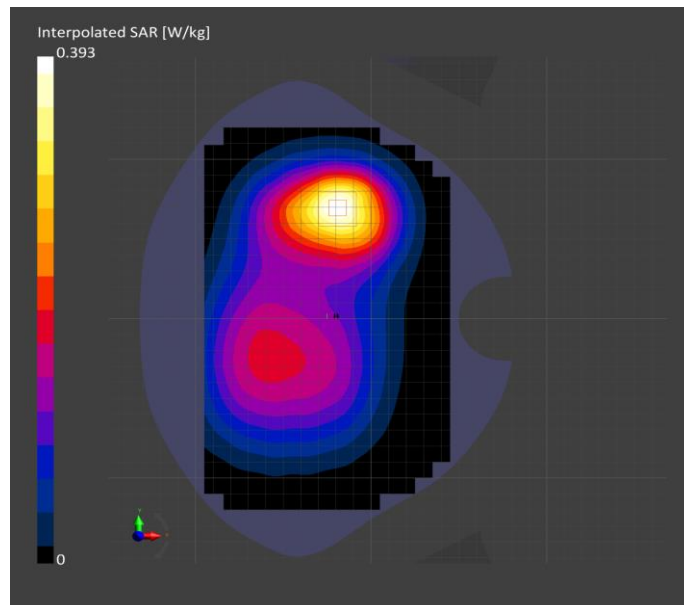
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-------------------|-------------------|
| Date | 2021-02-23, 16:39 | 2021-02-23, 16:46 |
| psSAR1g [W/Kg] | 0.343 | 0.341 |
| psSAR10g [W/Kg] | 0.231 | 0.217 |
| Power Drift [dB] | 0.03 | -0.11 |
| M2/M1 [%] | | inf |
| Dist 3dB Peak [mm] | | 60.1 |



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Meas.23 Measurement Report for TDC600_2, CHEEK, Band 17, E-UTRA/FDD, UID 10175 CAG, Channel 23790 (710.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|---------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| LeftHead, HSL | CHEEK, 0.00 | Band 17, E-UTRA/FDD | LTE-FDD, 10175-CAG | 710.0, 23790 | 10.16 | 0.91 | 42.69 |

Hardware Setup

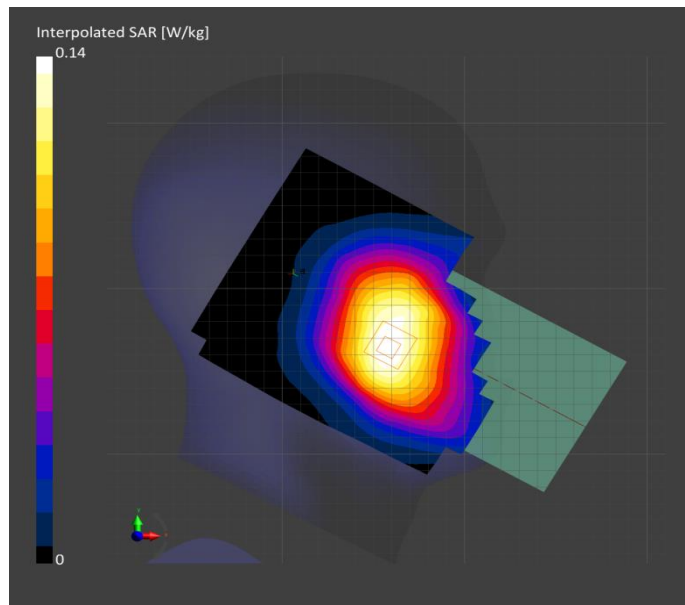
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.123 | 0.134 |
| psSAR10g [W/Kg] | 0.086 | 0.103 |
| Power Drift [dB] | -0.24 | -0.10 |
| M2/M1 [%] | | inf |
| Dist 3dB Peak [mm] | | 79.7 |



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Meas.24 Measurement Report for TDC600_2, FRONT, Band 17, E-UTRA/FDD, UID 10175 CAG, Channel 23790 (710.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|---------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | Band 17, E-UTRA/FDD | LTE-FDD, 10175-CAG | 710.0, 23790 | 10.16 | 0.91 | 42.69 |

Hardware Setup

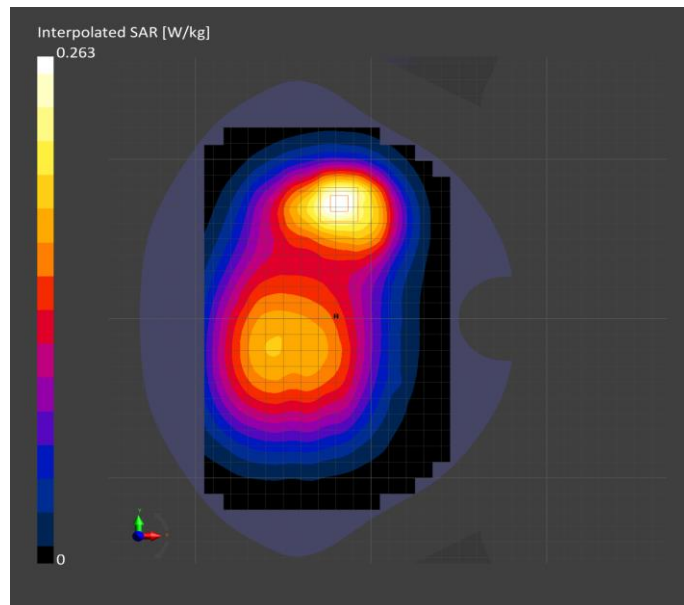
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.232 | 0.225 |
| psSAR10g [W/Kg] | 0.158 | 0.145 |
| Power Drift [dB] | 0.10 | -0.00 |
| M2/M1 [%] | | 22.0 |
| Dist 3dB Peak [mm] | | 58.4 |



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Meas.25 Measurement Report for TDC600_2, CHEEK, Band 25, E-UTRA/FDD, UID 10169 CAE, Channel 26140 (1860.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|---------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| LeftHead, HSL | CHEEK, 0.00 | Band 25, E-UTRA/FDD | LTE-FDD, 10169-CAE | 1860.0, 26140 | 8.07 | 1.43 | 41.16 |

Hardware Setup

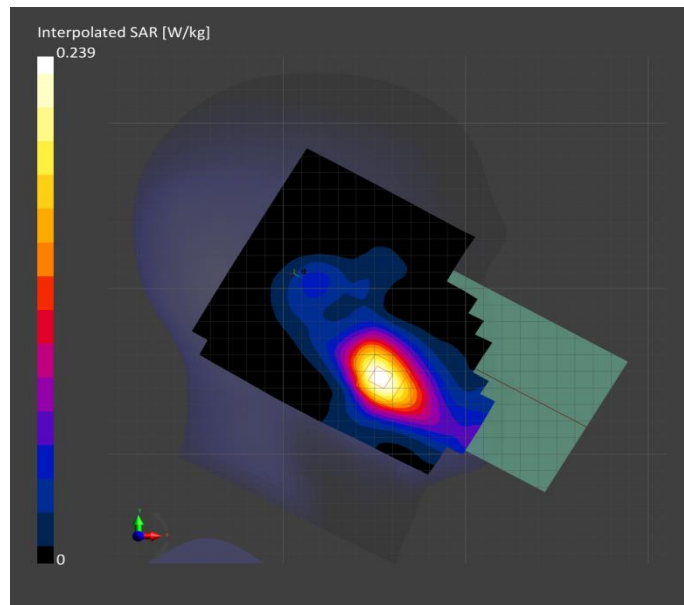
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.196 | 0.219 |
| psSAR10g [W/Kg] | 0.111 | 0.129 |
| Power Drift [dB] | 0.39 | -0.10 |
| M2/M1 [%] | | 12.1 |
| Dist 3dB Peak [mm] | | 66.2 |



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Meas.26 Measurement Report for TDC600_2, FRONT, Band 25, E-UTRA/FDD, UID 10169 CAE, Channel 26140 (1860.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|---------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | Band 25, E-UTRA/FDD | LTE-FDD, 10169-CAE | 1860.0, 26140 | 8.07 | 1.43 | 41.16 |

Hardware Setup

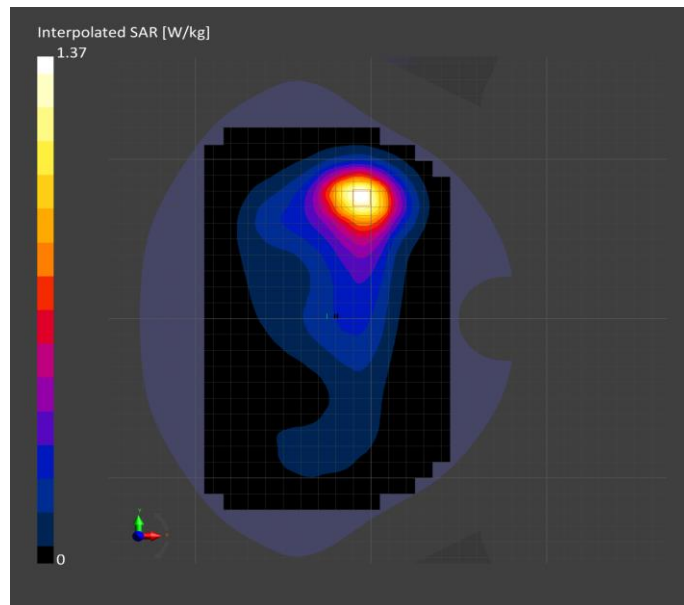
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 1.11 | 1.25 |
| psSAR10g [W/Kg] | 0.629 | 0.682 |
| Power Drift [dB] | 0.28 | -0.08 |
| M2/M1 [%] | | 13.6 |
| Dist 3dB Peak [mm] | | 55.3 |



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Meas.27 Measurement Report for TDC600_2, CHEEK, Band 41, E-UTRA/TDD, UID 10172 CAG, Channel 41490 (2680.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|---------------------|------------------------|---------------------------------|-------------------|------------------------|------------------|
| LeftHead, HSL | CHEEK, 0.00 | Band 41, E-UTRA/TDD | 41, LTE-TDD, 10172-CAG | 2680.0, 41490 | 7.45 | 2.03 | 40.41 |

Hardware Setup

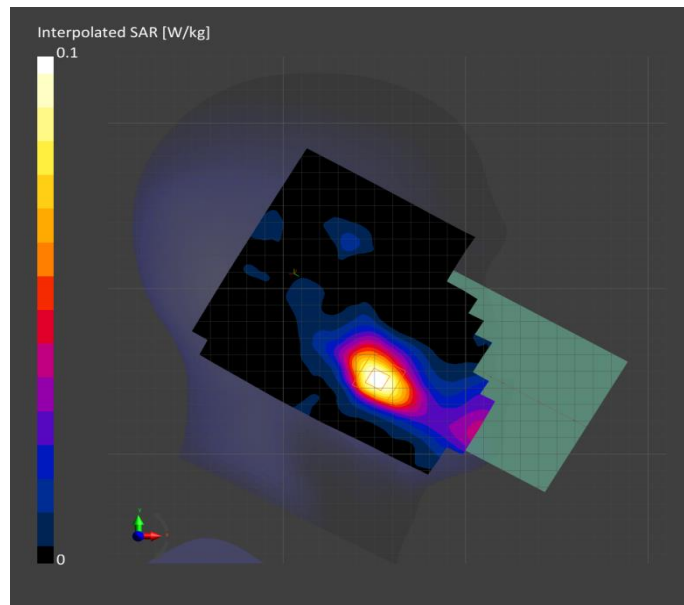
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.079 | 0.079 |
| psSAR10g [W/Kg] | 0.039 | 0.040 |
| Power Drift [dB] | -1.57 | -0.19 |
| M2/M1 [%] | | -inf |
| Dist 3dB Peak [mm] | | -368.0 |



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Meas.28 Measurement Report for TDC600_2, FRONT, Band 41, E-UTRA/TDD, UID 10172 CAG, Channel 41490 (2680.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|---------------------|--------------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | Band 41, E-UTRA/TDD | LTE-TDD, 10172-CAG | 2680.0, 41490 | 7.45 | 2.03 | 40.41 |

Hardware Setup

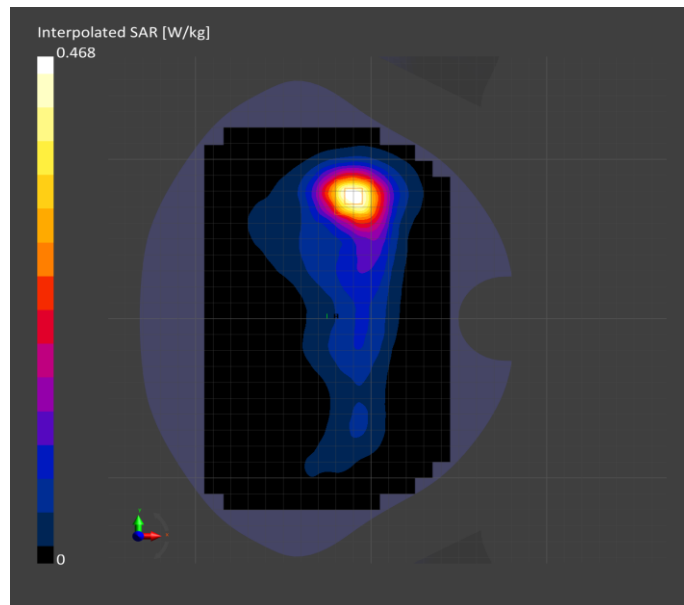
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.372 | 0.356 |
| psSAR10g [W/Kg] | 0.186 | 0.171 |
| Power Drift [dB] | -0.42 | -0.13 |
| M2/M1 [%] | | 12.0 |
| Dist 3dB Peak [mm] | | 47.7 |



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Meas.29 Measurement Report for TDC600_2, CHEEK, WLAN 2.4GHz, UID 10516 AAA, Channel 1 (2412.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-------------|-----------------|---------------------------------|-------------------|------------------------|------------------|
| RightHead, HSL | CHEEK, 0.00 | WLAN 2.4GHz | WLAN, 10516-AAA | 2412.0, 1 | 7.65 | 1.72 | 38.85 |

Hardware Setup

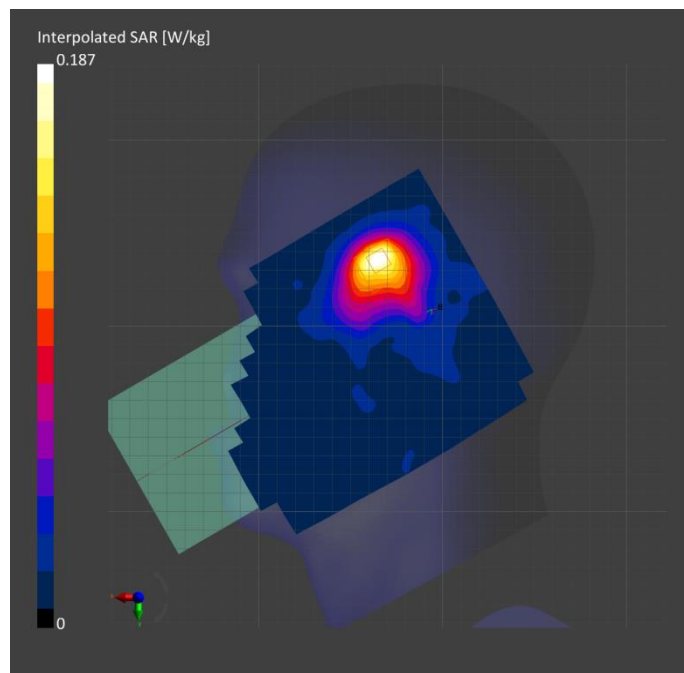
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.142 | 0.148 |
| psSAR10g [W/Kg] | 0.073 | 0.080 |
| Power Drift [dB] | -0.14 | 0.17 |
| M2/M1 [%] | | 10.1 |
| Dist 3dB Peak [mm] | | 51.5 |



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Meas.30 Measurement Report for TDC600_2, FRONT, WLAN 2.4GHz, UID 10516 AAA, Channel 1 (2412.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-------------|-----------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | WLAN 2.4GHz | WLAN, 10516-AAA | 2412.0, 1 | 7.65 | 1.72 | 38.85 |

Hardware Setup

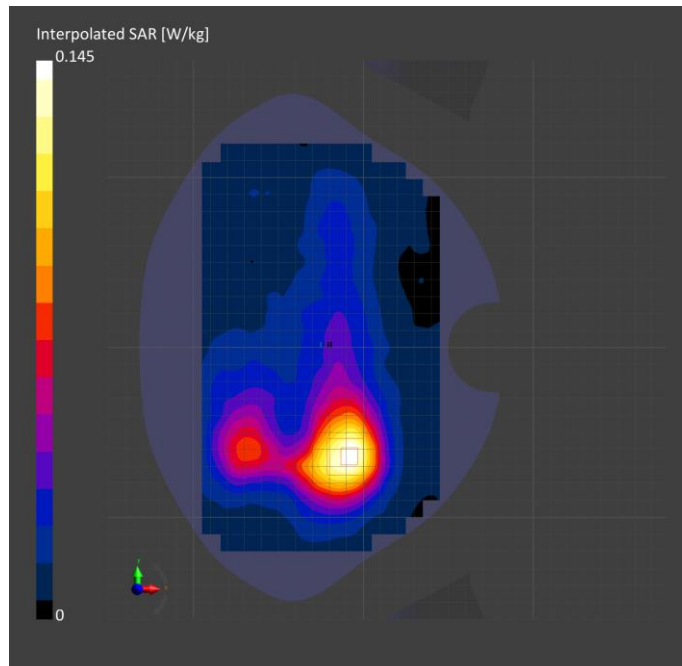
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.118 | 0.123 |
| psSAR10g [W/Kg] | 0.067 | 0.071 |
| Power Drift [dB] | 0.13 | -0.09 |
| M2/M1 [%] | | 13.6 |
| Dist 3dB Peak [mm] | | 53.1 |



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Meas.31 Measurement Report for TDC600_2, CHEEK, WLAN 5GHz, UID 10525 AAB, Channel 36 (5180.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-----------|-----------------|---------------------------------|-------------------|------------------------|------------------|
| RightHead, HSL | CHEEK, 0.00 | WLAN 5GHz | WLAN, 10525-AAB | 5180.0, 36 | 5.53 | 4.52 | 35.30 |

Hardware Setup

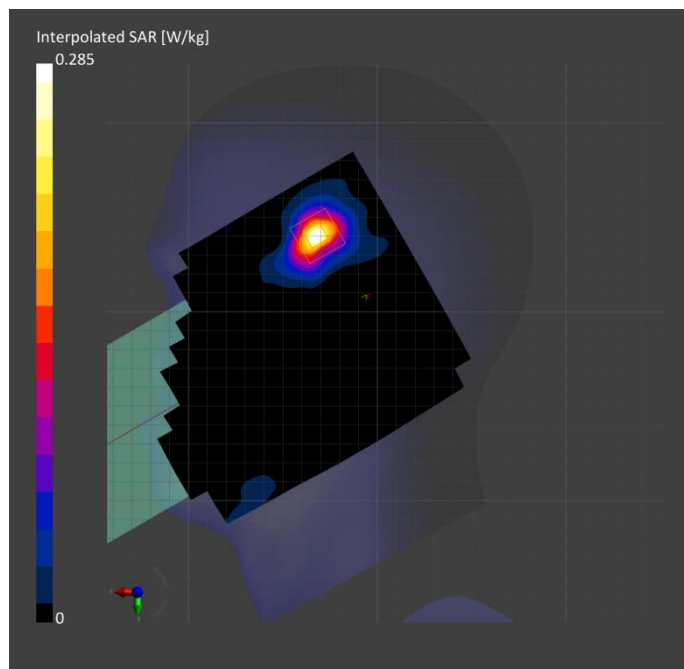
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 4.0 x 4.0 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.185 | 0.193 |
| psSAR10g [W/Kg] | 0.063 | 0.064 |
| Power Drift [dB] | -0.82 | 0.1 |
| M2/M1 [%] | | 6.7 |
| Dist 3dB Peak [mm] | | 66.4 |



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Meas.32 Measurement Report for TDC600_2, FRONT, WLAN 5GHz, UID 10607 AAB, Channel 36 (5180.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-----------|-----------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | WLAN 5GHz | WLAN, 10607-AAB | 5180.0, 36 | 5.53 | 4.52 | 35.30 |

Hardware Setup

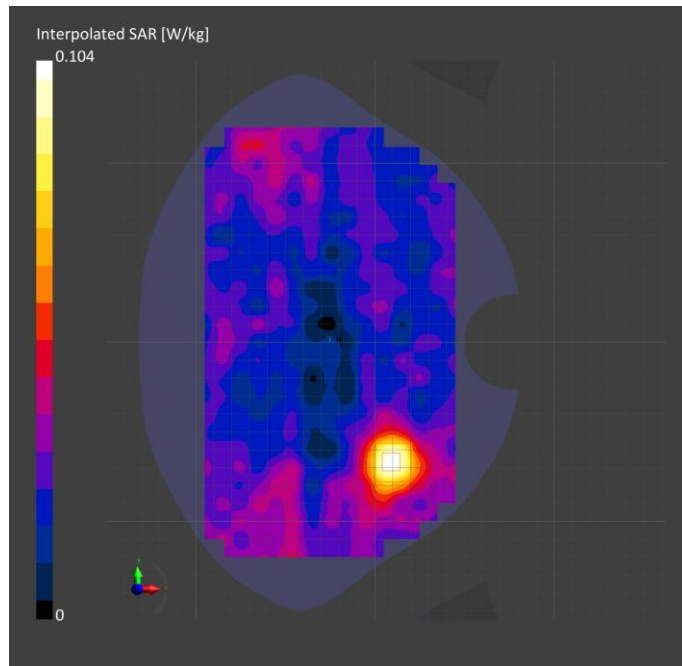
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 4.0 x 4.0 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.079 | 0.088 |
| psSAR10g [W/Kg] | 0.033 | 0.053 |
| Power Drift [dB] | -0.96 | -0.17 |
| M2/M1 [%] | | -inf |
| Dist 3dB Peak [mm] | | -368.0 |



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Meas.33 Measurement Report for TDC600_2, CHEEK, WLAN 5GHz, UID 10525 AAB, Channel 149 (5745.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-----------|-----------------|---------------------------------|-------------------|------------------------|------------------|
| RightHead, HSL | CHEEK, 0.00 | WLAN 5GHz | WLAN, 10525-AAB | 5745.0, 149 | 4.75 | 5.15 | 34.59 |

Hardware Setup

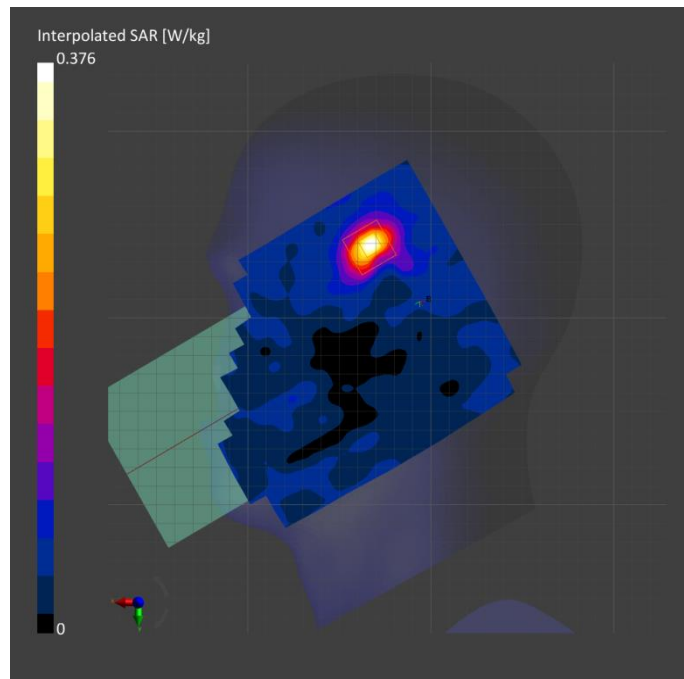
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 4.0 x 4.0 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.137 | 0.174 |
| psSAR10g [W/Kg] | 0.049 | 0.091 |
| Power Drift [dB] | -0.10 | -0.13 |
| M2/M1 [%] | | 6.5 |
| Dist 3dB Peak [mm] | | 68.1 |



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Meas.34 Measurement Report for TDC600_2, EDGE LEFT, WLAN 5GHz, UID 10525 AAB, Channel 149 (5745.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-----------|-----------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | EDGE LEFT, 10.00 | WLAN 5GHz | WLAN, 10525-AAB | 5745.0, 149 | 4.75 | 5.15 | 34.59 |

Hardware Setup

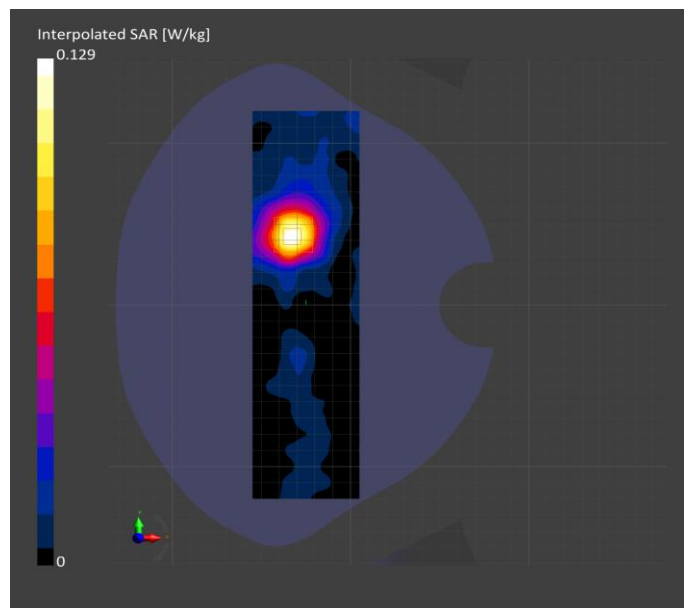
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|----------------|--------------------|
| Grid Extents [mm] | 60.0 x 240.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 4.0 x 4.0 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | Unknown method | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.096 | 0.102 |
| psSAR10g [W/Kg] | 0.037 | 0.047 |
| Power Drift [dB] | -7.69 | 0.13 |
| M2/M1 [%] | | 13.3 |
| Dist 3dB Peak [mm] | | 66.6 |



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Meas.35 Measurement Report for TDC600_2, CHEEK, ISM 2.4 GHz Band, UID 10038 CAA, Channel 39 (2441.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Test Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|------------------|----------------------|---------------------------------|-------------------|------------------------|------------------|
| RightHead, HSL | CHEEK, 0.00 | ISM 2.4 GHz Band | Bluetooth, 10038-CAA | 2441.0, 39 | 7.65 | 1.72 | 38.74 |

Hardware Setup

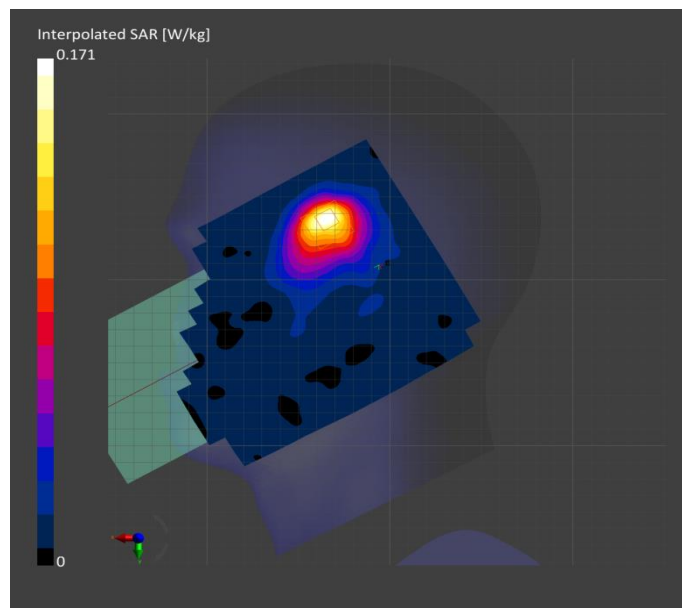
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.129 | 0.130 |
| psSAR10g [W/Kg] | 0.065 | 0.070 |
| Power Drift [dB] | -0.28 | 0.01 |
| M2/M1 [%] | | 9.9 |
| Dist 3dB Peak [mm] | | 49.9 |



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Meas.36 Measurement Report for TDC600_2, FRONT, ISM 2.4 GHz Band, UID 10038 CAA, Channel 39 (2441.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|--------------------|---------------------|-----------------|----------|
| TDC600_2, | 195.0 x 91.0 x 17.0 | 354520880001853 | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|------------------|----------------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | FRONT, 10.00 | ISM 2.4 GHz Band | Bluetooth, 10038-CAA | 2441.0, 39 | 7.65 | 1.72 | 38.74 |

Hardware Setup

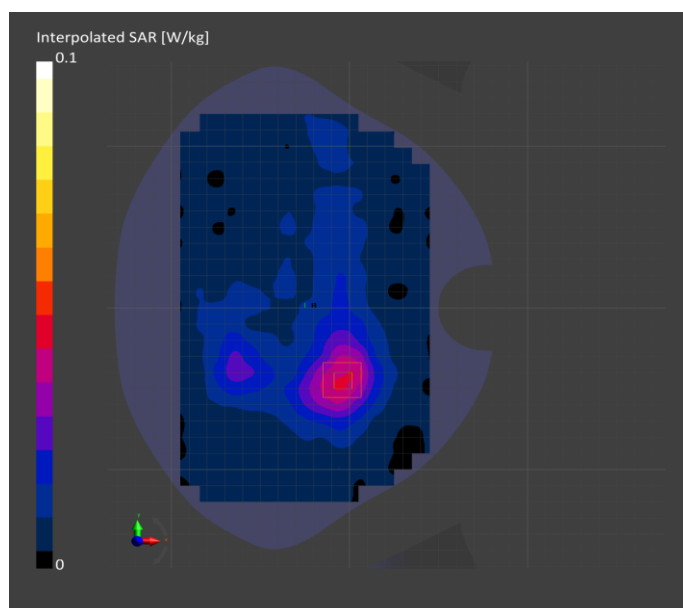
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|-----------------------------------|-----------------------------|------------------------|
| Twin-SAM V8.0 (30deg probe tilt) - 1461 | HBBL-600-10000 Charge:xxxx, -- | EX3DV4 - SN7475, 2020-10-29 | DAE4 Sn787, 2020-09-30 |

Scan Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 5.0 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.037 | 0.039 |
| psSAR10g [W/Kg] | 0.021 | 0.025 |
| Power Drift [dB] | -0.47 | 0.14 |
| M2/M1 [%] | | -inf |
| Dist 3dB Peak [mm] | | -68.0 |



End of the report***