



## Appendix A. System Check Plots

|                                 |
|---------------------------------|
| <b>Table of Contents</b>        |
| <b>System Performance Check</b> |

Place of testing: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D750-EX

**DUT: Dipole; Type: D750V3; Serial: 1044**

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.889$  S/m;  $\epsilon_r = 40.963$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(9.1, 9.1, 9.1) @ 750 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1492; Calibrated: 2021-07-28
- Phantom: SAM1; Type: SAM; Serial: 1475
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/d=15mm, Pin=250mW, f=750 MHz/Area Scan (6x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 2.82 W/kg

**Configuration/d=15mm, Pin=250mW, f=750 MHz/Zoom Scan (5x5x7)/Cube 0:**

Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 60.62 V/m; Power Drift = -0.14 dB

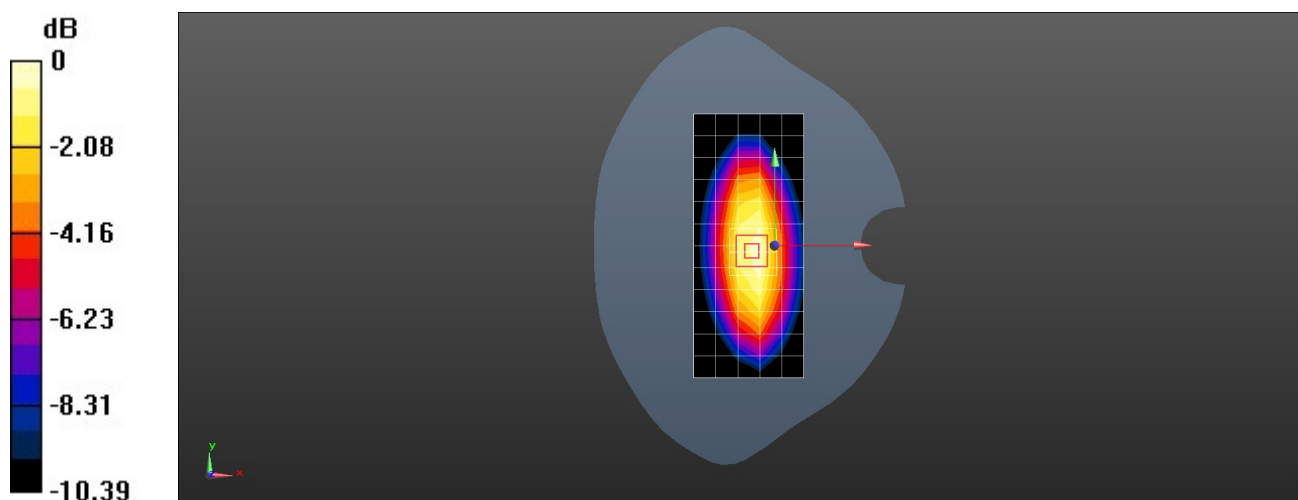
Peak SAR (extrapolated) = 3.40 W/kg

**SAR(1 g) = 2.2 W/kg; SAR(10 g) = 1.45 W/kg**

Smallest distance from peaks to all points 3 dB below = 16.3 mm

Ratio of SAR at M2 to SAR at M1 = 64.5%

Maximum value of SAR (measured) = 2.98 W/kg



0 dB = 2.98 W/kg = 4.74 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D835-EX

**DUT: Dipole; Type: D835V2; Serial: 4d166**

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.92$  S/m;  $\epsilon_r = 40.787$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(8.82, 8.82, 8.82) @ 835 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1492; Calibrated: 2021-07-28
- Phantom: SAM1; Type: SAM; Serial: 1475
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/d=15mm, Pin=250mW, f=835 MHz/Area Scan (6x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 3.25 W/kg

**Configuration/d=15mm, Pin=250mW, f=835 MHz/Zoom Scan (5x5x7)/Cube 0:**

Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 61.72 V/m; Power Drift = -0.07 dB

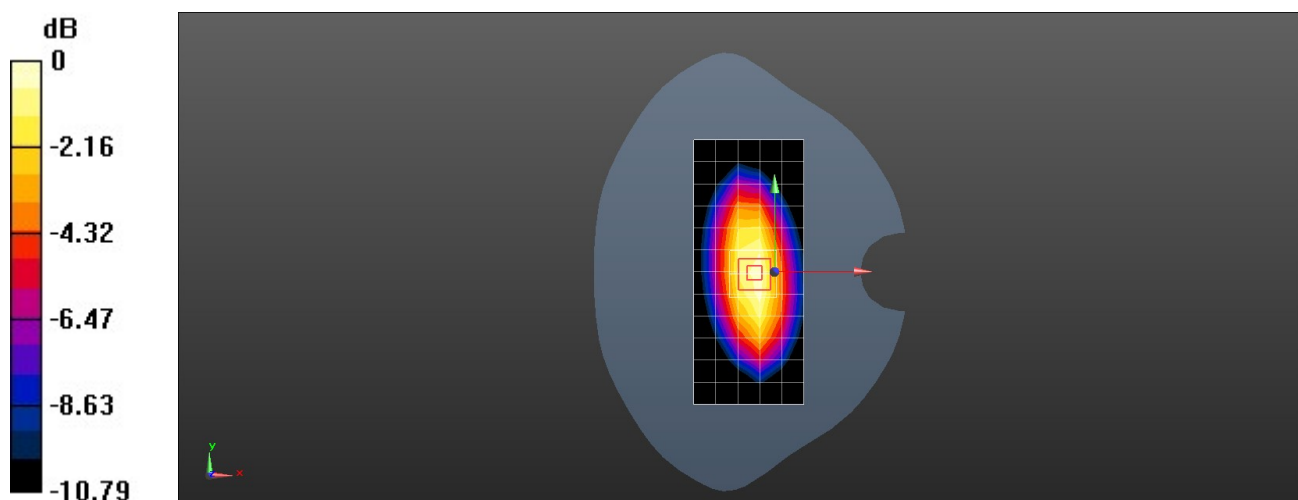
Peak SAR (extrapolated) = 3.84 W/kg

**SAR(1 g) = 2.47 W/kg; SAR(10 g) = 1.61 W/kg**

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 64.6%

Maximum value of SAR (measured) = 3.37 W/kg



0 dB = 3.37 W/kg = 5.28 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D835-EX

**DUT: Dipole ; Type: D835V2; Serial: 4d166**

Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.913$  S/m;  $\epsilon_r = 40.337$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(8.82, 8.82, 8.82) @ 835 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1492; Calibrated: 2021-07-28
- Phantom: SAM1; Type: SAM; Serial: 1475
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/d=15mm, Pin=250mW, f=835 MHz/Area Scan (6x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 3.30 W/kg

**Configuration/d=15mm, Pin=250mW, f=835 MHz/Zoom Scan (5x5x7)/Cube 0:**

Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 60.59 V/m; Power Drift = 0.16 dB

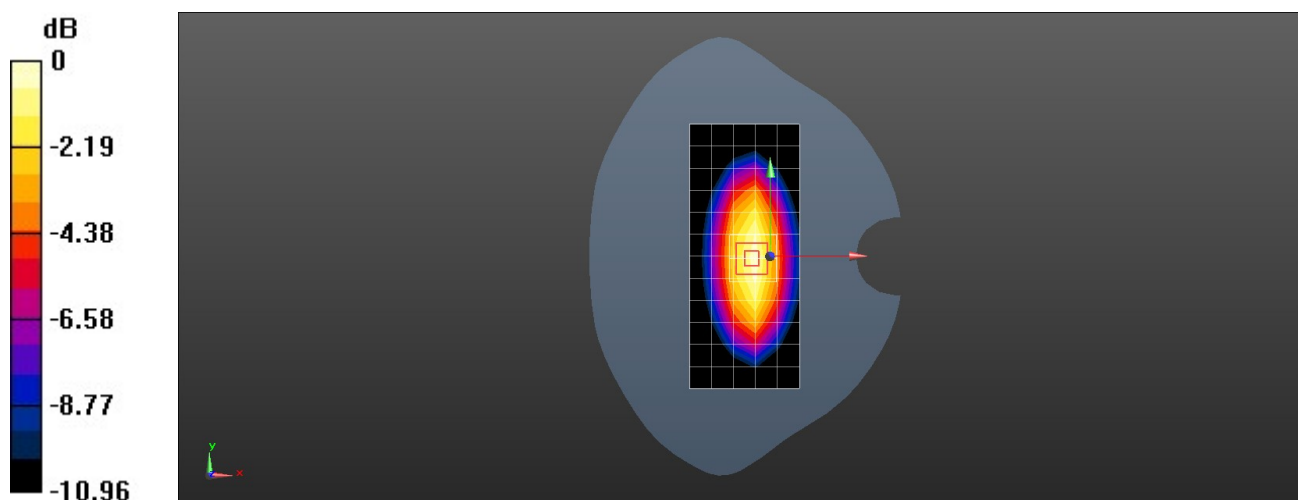
Peak SAR (extrapolated) = 3.98 W/kg

**SAR(1 g) = 2.52 W/kg; SAR(10 g) = 1.62 W/kg**

Smallest distance from peaks to all points 3 dB below = 17.6 mm

Ratio of SAR at M2 to SAR at M1 = 63.4%

Maximum value of SAR (measured) = 3.46 W/kg



0 dB = 3.46 W/kg = 5.39 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1750-EX

**DUT: Dipole; Type: D1750V2; Serial: 1123**

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.334$  S/m;  $\epsilon_r = 38.552$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(8.61, 8.61, 8.61) @ 1750 MHz; Calibrated: 2020-12-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1531; Calibrated: 2021-02-24
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/d=10mm, Pin=250mW/Area Scan (6x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 9.75 W/kg

**Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 90.99 V/m; Power Drift = -0.14 dB

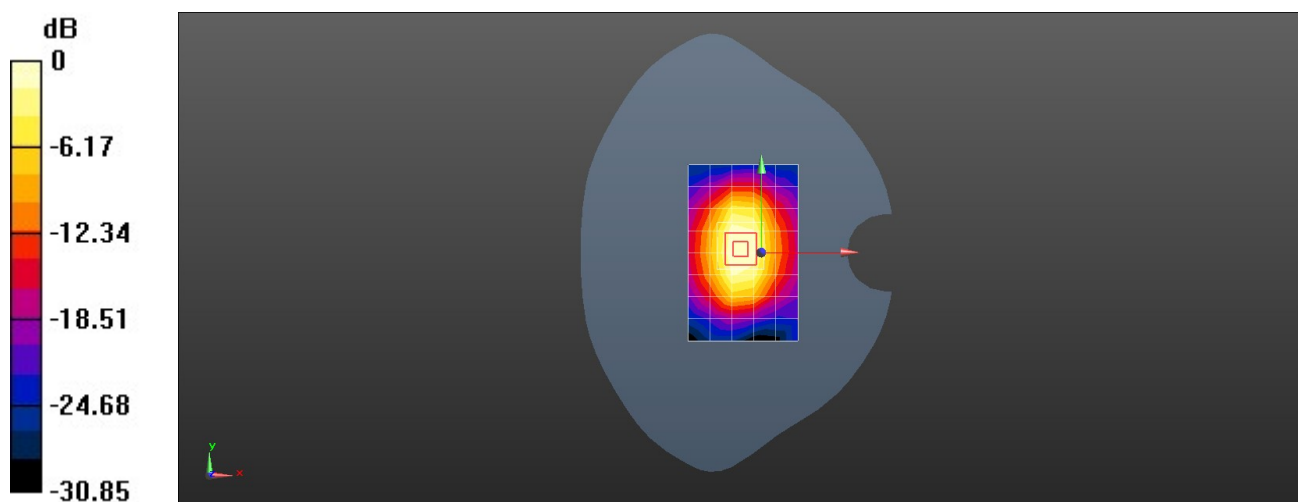
Peak SAR (extrapolated) = 15.4 W/kg

**SAR(1 g) = 8.49 W/kg; SAR(10 g) = 4.54 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 55%

Maximum value of SAR (measured) = 13.0 W/kg



0 dB = 9.75 W/kg = 9.89 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1750-EX

**DUT: Dipole; Type: D1750V2; Serial: 1123**

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.325$  S/m;  $\epsilon_r = 39.106$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(8.61, 8.61, 8.61) @ 1750 MHz; Calibrated: 2020-12-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1531; Calibrated: 2021-02-24
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/d=10mm, Pin=250mW/Area Scan (6x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 9.68 W/kg

**Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 90.99 V/m; Power Drift = -0.14 dB

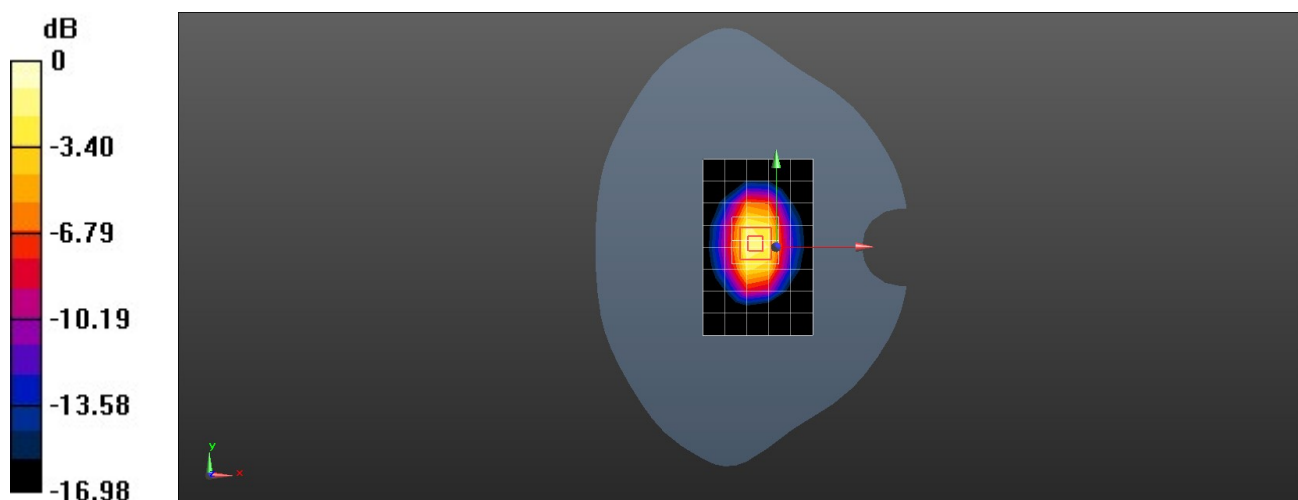
Peak SAR (extrapolated) = 15.3 W/kg

**SAR(1 g) = 8.43 W/kg; SAR(10 g) = 4.51 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 55%

Maximum value of SAR (measured) = 12.9 W/kg



0 dB = 12.9 W/kg = 11.11 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D1900-EX

**DUT: Dipole; Type: D1900V2; Serial: 5d143**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.437$  S/m;  $\epsilon_r = 38.433$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(8.22, 8.22, 8.22) @ 1900 MHz; Calibrated: 2020-12-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1531; Calibrated: 2021-02-24
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/d=10mm Pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 15.5 W/kg

**Configuration/d=10mm Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 80.85 V/m; Power Drift = -0.05 dB

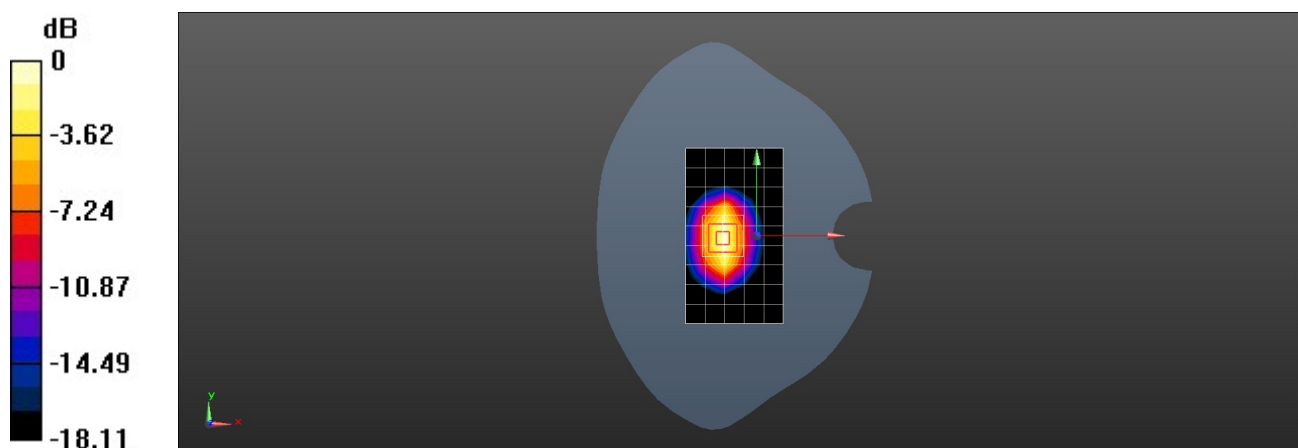
Peak SAR (extrapolated) = 19.8 W/kg

**SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.49 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.7 mm

Ratio of SAR at M2 to SAR at M1 = 53.2%

Maximum value of SAR (measured) = 16.5 W/kg



0 dB = 16.5 W/kg = 12.17 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2450-EX

**DUT: Dipole; Type: D2450V2; Serial: 860**

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2450$  MHz;  $\sigma = 1.792$  S/m;  $\epsilon_r = 39.178$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(7.72, 7.72, 7.72) @ 2450 MHz; Calibrated: 2020-12-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1531; Calibrated: 2021-02-24
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/d=10mm, Pin=250mW/Area Scan (6x11x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 22.7 W/kg

**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 61.48 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 27.1 W/kg

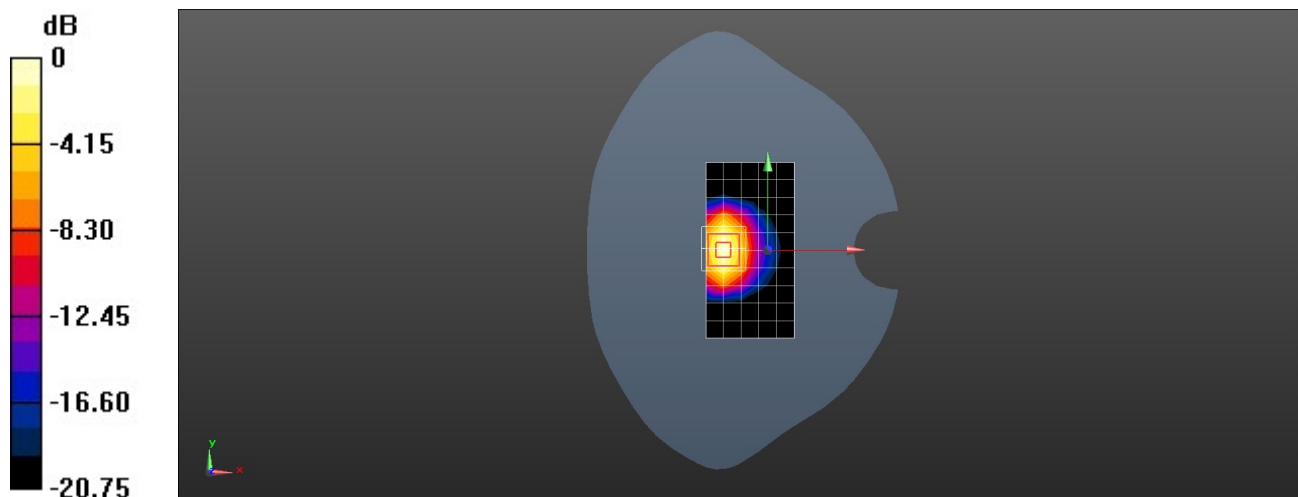
**SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.38 W/kg**

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 50.1%

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 22.0 W/kg



0 dB = 22.0 W/kg = 13.42 dBW/kg



Place of testing: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2600-EX

**DUT: Dipole; Type: D2600V2; Serial: 1077**

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.957$  S/m;  $\epsilon_r = 37.796$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(7.5, 7.5, 7.5) @ 2600 MHz; Calibrated: 2020-12-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1531; Calibrated: 2021-02-24
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/d=10mm, Pin=250mW/Area Scan (8x11x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 19.2 W/kg

**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 111.4 V/m; Power Drift = 0.05 dB

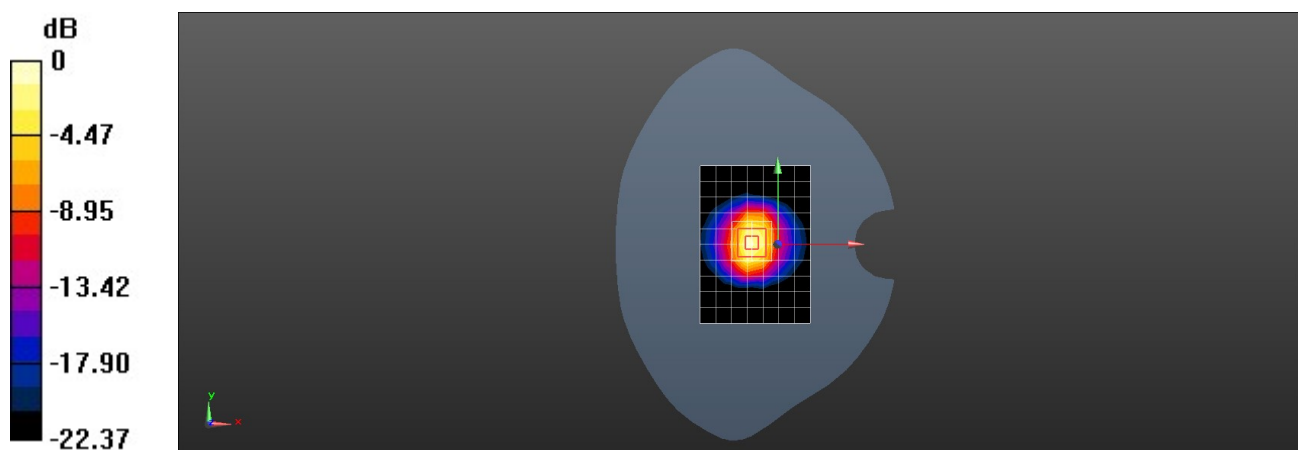
Peak SAR (extrapolated) = 27.4 W/kg

**SAR(1 g) = 13 W/kg; SAR(10 g) = 5.92 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 48.3%

Maximum value of SAR (measured) = 22.0 W/kg



0 dB = 22.0 W/kg = 13.42 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D5750-EX

**DUT: Dipole; Type: D5GHzV2; Serial: 1155**

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.075$  S/m;  $\epsilon_r = 33.862$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(4.72, 4.72, 4.72) @ 5750 MHz; Calibrated: 2020-12-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- Electronics: DAE4 Sn1531; Calibrated: 2021-02-24
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/d=10mm, Pin=100mW/Area Scan (8x8x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 15.6 W/kg

**Configuration/d=10mm, Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm

Reference Value = 65.71 V/m; Power Drift = -0.10 dB

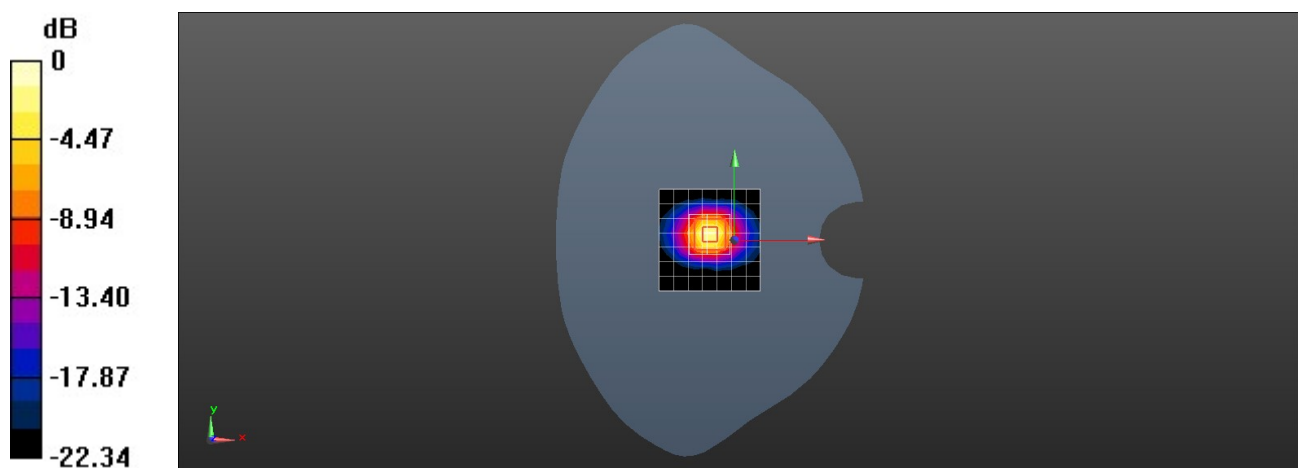
Peak SAR (extrapolated) = 35.8 W/kg

**SAR(1 g) = 8.35 W/kg; SAR(10 g) = 2.42 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 63.4%

Maximum value of SAR (measured) = 19.6 W/kg



0 dB = 19.6 W/kg = 12.92 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D5600-EX

**DUT: Dipole; Type: D5GHzV2; Serial: 1155**

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.911$  S/m;  $\epsilon_r = 34.11$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(4.53, 4.53, 4.53) @ 5600 MHz; Calibrated: 2020-12-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- Electronics: DAE4 Sn1531; Calibrated: 2021-02-24
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/d=10mm, Pin=100mW/Area Scan (8x8x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 16.5 W/kg

**Configuration/d=10mm, Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm

Reference Value = 66.77 V/m; Power Drift = -0.14 dB

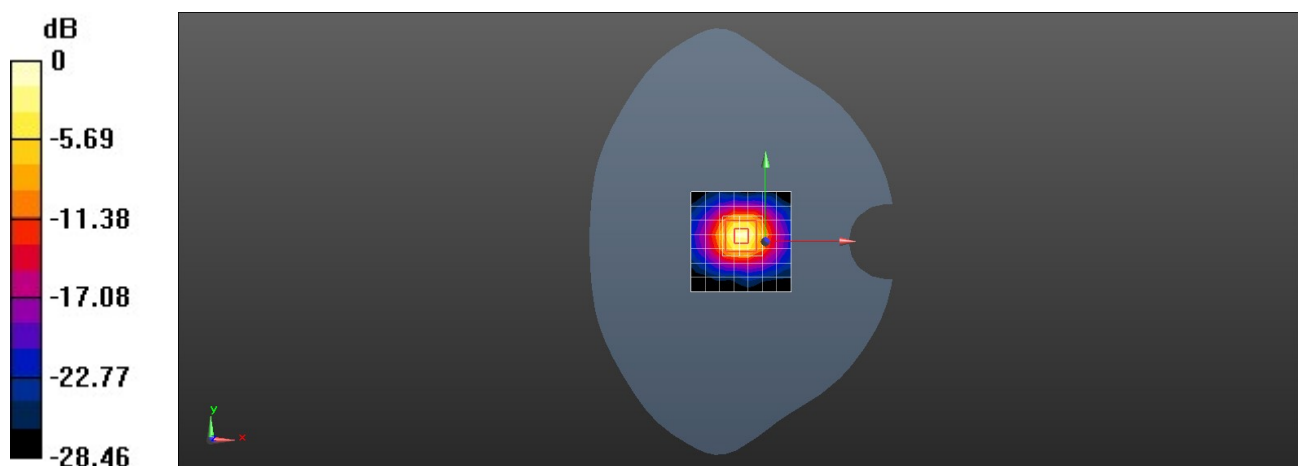
Peak SAR (extrapolated) = 34.9 W/kg

**SAR(1 g) = 8.56 W/kg; SAR(10 g) = 2.49 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 64.4%

Maximum value of SAR (measured) = 20.0 W/kg



0 dB = 20.0 W/kg = 13.01 dBW/kg

Place of testing: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D5250-EX

**DUT: Dipole; Type: D5GHzV2; Serial: 1155**

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5250$  MHz;  $\sigma = 4.532$  S/m;  $\epsilon_r = 34.699$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(5.23, 5.23, 5.23) @ 5250 MHz; Calibrated: 2020-12-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- Electronics: DAE4 Sn1531; Calibrated: 2021-02-24
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/d=10mm, Pin=100mW/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 17.1 W/kg

**Configuration/d=10mm, Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 41.03 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 31.4 W/kg

**SAR(1 g) = 8.2 W/kg; SAR(10 g) = 2.38 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 66.9%

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 18.4 W/kg

**Configuration/d=10mm, Pin=100mW/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 17.1 W/kg

**Configuration/d=10mm, Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 41.03 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 31.4 W/kg

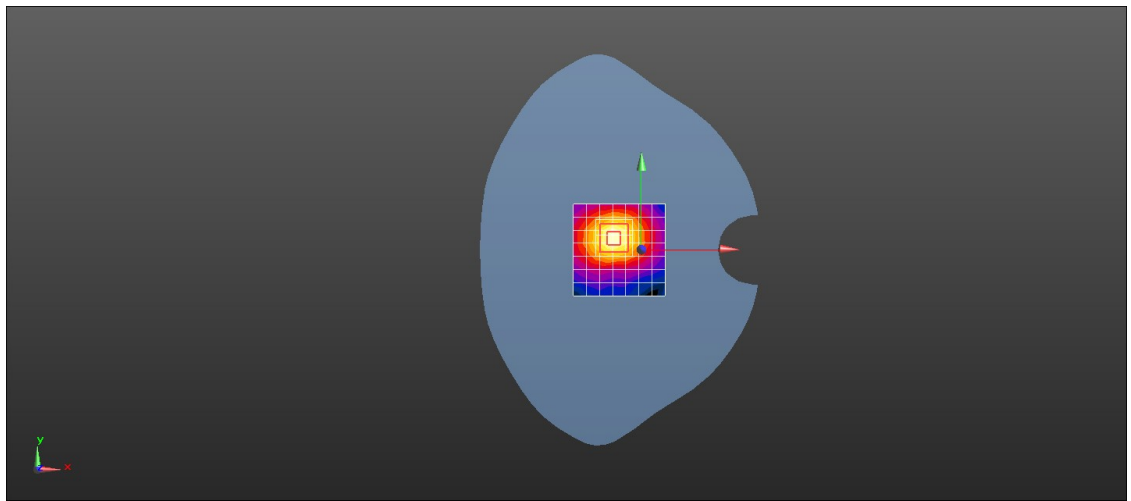
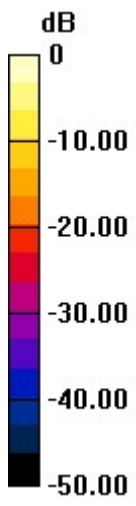
**SAR(1 g) = 8.2 W/kg; SAR(10 g) = 2.38 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 66.9%

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 18.4 W/kg



0 dB = 18.4 W/kg = 12.65 dBW/kg

### **System Validation**

Per FCC KDB 865664 D02, SAR system verification is required to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles are used with the required tissue-equivalent media for system validation, according to the procedures outlined in FCC KDB 865664 D01 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point must be validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

a tabulated summary of the system validation status, measurement frequencies, SAR probes, calibrated signal type(s) and tissue dielectric parameters has been included.



| FREQ.<br>[Mhz] | DATE       | PROBE<br>SN | PROBE<br>TYPE | PROBE CAL<br>POINT |      | PERM             | COND         | CW VALIDATION    |                   |                   | MOD.VALIDATION |                  |      |
|----------------|------------|-------------|---------------|--------------------|------|------------------|--------------|------------------|-------------------|-------------------|----------------|------------------|------|
|                |            |             |               |                    |      | ( $\epsilon_r$ ) | ( $\sigma$ ) | SENSI-<br>TIVITY | PROBE<br>LINARITY | PROBE<br>ISOTROPY | MOD. TYPE      | DUTY.<br>FACTORE | PAR  |
| 900            | 2021-07-09 | 7350        | EX3DV4        | 900                | Head | 43.17            | 0.962        | PASS             | PASS              | PASS              | NA             | NA               | N/A  |
| 1750           | 2021-07-09 | 7350        | EX3DV4        | 1750               | Head | 38.51            | 1.354        | PASS             | PASS              | PASS              | NA             | NA               | N/A  |
| 1800           | 2021-07-09 | 7350        | EX3DV4        | 1800               | Head | 41.90            | 1.392        | PASS             | PASS              | PASS              | GMSK           | PASS             | N/A  |
| 1900           | 2021-07-09 | 7350        | EX3DV4        | 1900               | Head | 41.56            | 1.458        | PASS             | PASS              | PASS              | GMSK           | PASS             | N/A  |
| 2450           | 2021-07-09 | 7350        | EX3DV4        | 2450               | Head | 39.15            | 1.786        | PASS             | PASS              | PASS              | OFDM/TDD       | PASS             | PASS |
| 2600           | 2021-07-09 | 7350        | EX3DV4        | 2600               | Head | 40.49            | 2.036        | PASS             | PASS              | PASS              | TDD            | PASS             | N/A  |



| FREQ.<br>[Mhz] | DATE       | PROBE<br>SN | PROBE<br>TYPE | PROBE CAL<br>POINT |      | PERM             | COND         | CW VALIDATION    |                   |                   | MOD.VALIDATION |                  |      |
|----------------|------------|-------------|---------------|--------------------|------|------------------|--------------|------------------|-------------------|-------------------|----------------|------------------|------|
|                |            |             |               |                    |      | ( $\epsilon_r$ ) | ( $\sigma$ ) | SENSI-<br>TIVITY | PROBE<br>LINARITY | PROBE<br>ISOTROPY | MOD. TYPE      | DUTY.<br>FACTORE | PAR  |
| 750            | 2021-08-27 | 3744        | EX3DV4        | 750                | Head | 40.26            | 0.885        | PASS             | PASS              | PASS              | N/A            | N/A              | N/A  |
| 835            | 2021-08-27 | 3744        | EX3DV4        | 850                | Head | 40.09            | 0.916        | PASS             | PASS              | PASS              | GMSK           | PASS             | N/A  |
| 1750           | 2021-08-27 | 3744        | EX3DV4        | 1750               | Head | 39.03            | 1.360        | PASS             | PASS              | PASS              | NA             | NA               | N/A  |
| 1900           | 2021-08-27 | 3744        | EX3DV4        | 1900               | Head | 38.81            | 1.454        | PASS             | PASS              | PASS              | GMSK           | PASS             | N/A  |
| 2000           | 2021-08-27 | 3744        | EX3DV4        | 2000               | Head | 39.22            | 1.448        | PASS             | PASS              | PASS              | N/A            | N/A              | N/A  |
| 2300           | 2021-08-27 | 3744        | EX3DV4        | 2300               | Head | 38.87            | 1.651        | PASS             | PASS              | PASS              | TDD            | PASS             | N/A  |
| 2450           | 2021-08-27 | 3744        | EX3DV4        | 2450               | Head | 38.63            | 1.761        | PASS             | PASS              | PASS              | OFDM/TDD       | PASS             | PASS |
| 2600           | 2021-08-27 | 3744        | EX3DV4        | 2600               | Head | 38.38            | 1.871        | PASS             | PASS              | PASS              | TDD            | PASS             | N/A  |
| 3300           | 2021-08-27 | 3744        | EX3DV4        | 3300               | Head | 38.22            | 2.637        | PASS             | PASS              | PASS              | TDD            | PASS             | N/A  |
| 3500           | 2021-08-27 | 3744        | EX3DV4        | 3500               | Head | 37.84            | 2.816        | PASS             | PASS              | PASS              | TDD            | PASS             | N/A  |
| 3700           | 2021-08-27 | 3744        | EX3DV4        | 3700               | Head | 37.53            | 2.997        | PASS             | PASS              | PASS              | TDD            | PASS             | N/A  |
| 3900           | 2021-08-27 | 3744        | EX3DV4        | 3900               | Head | 37.19            | 3.194        | PASS             | PASS              | PASS              | TDD            | PASS             | N/A  |
| 4100           | 2021-08-30 | 3744        | EX3DV4        | 4100               | Head | 38.70            | 3.399        | PASS             | PASS              | PASS              | TDD            | PASS             | N/A  |
| 4500           | 2021-08-30 | 3744        | EX3DV4        | 4400               | Head | 37.97            | 3.846        | PASS             | PASS              | PASS              | TDD            | PASS             | N/A  |
| 4700           | 2021-08-30 | 3744        | EX3DV4        | 4600               | Head | 37.58            | 4.076        | PASS             | PASS              | PASS              | TDD            | PASS             | N/A  |
| 4900           | 2021-08-30 | 3744        | EX3DV4        | 4950               | Head | 37.18            | 4.306        | PASS             | PASS              | PASS              | TDD            | PASS             | N/A  |
| 5250           | 2021-08-30 | 3744        | EX3DV4        | 5250               | Head | 35.36            | 4.816        | PASS             | PASS              | PASS              | OFDM/TDD       | PASS             | N/A  |
| 5600           | 2021-08-30 | 3744        | EX3DV4        | 5600               | Head | 34.74            | 5.206        | PASS             | PASS              | PASS              | OFDM/TDD       | PASS             | N/A  |
| 5750           | 2021-08-30 | 3744        | EX3DV4        | 5750               | Head | 34.48            | 5.407        | PASS             | PASS              | PASS              | OFDM/TDD       | PASS             | N/A  |



Table of SAR System validation summary:

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664D01 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5dB), such as OFDM according to KDB 865664.