



Appendix A

Detailed System Check Results

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Test Laboratory: SGS-SAR Lab

System Performance Check 835 MHz Head

DUT: D835V2; Type: D835V2; Serial: 4d105

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

Medium: HSL835; Medium parameters used: $f = 835$ MHz; $\sigma = 0.914$ S/m; $\epsilon_r = 40.943$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.04, 9.04, 9.04); Calibrated: 2019-03-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn896; Calibrated: 2018-11-08
- Phantom: SAM 2; Type: SAM; Serial: 1913
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=15mm, Pin=250mW/Area Scan (7x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 3.17 W/kg

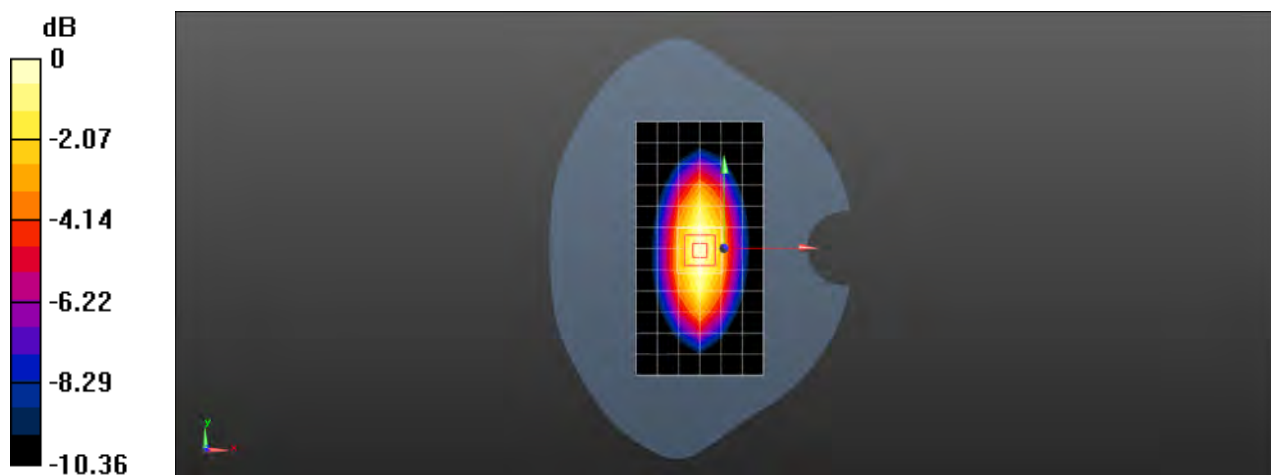
Body/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 55.29 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 3.59 W/kg

SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.66 W/kg

Maximum value of SAR (measured) = 3.12 W/kg



0 dB = 3.12 W/kg = 4.94 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 835 MHz Body

DUT: D835V2; Type: D835V2; Serial: 4d105

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

Medium: MSL835; Medium parameters used: $f = 835$ MHz; $\sigma = 0.986$ S/m; $\epsilon_r = 55.389$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.11, 9.11, 9.11); Calibrated: 2019-03-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn896; Calibrated: 2018-11-08
- Phantom: SAM 1; Type: SAM; Serial: 1283
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=15mm, Pin=250mW/Area Scan (9x16x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 2.90 W/kg

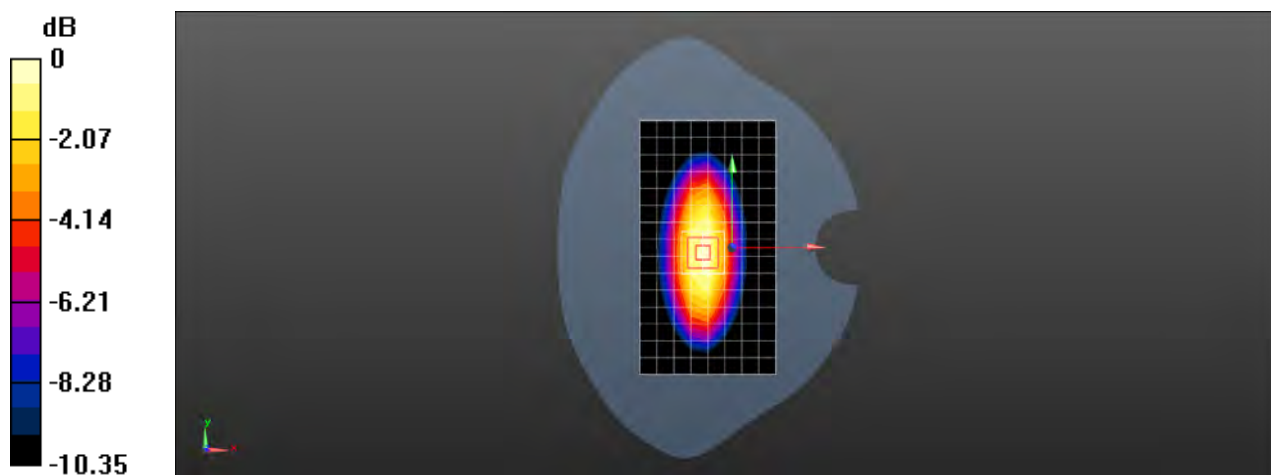
Body/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 49.91 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.57 W/kg

SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.57 W/kg

Maximum value of SAR (measured) = 3.04 W/kg



Test Laboratory: SGS-SAR Lab

System Performance Check 835 MHz Body

DUT: D835V2; Type: D835V2; Serial: 4d105

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

Medium: MSL835; Medium parameters used: $f = 835$ MHz; $\sigma = 0.993$ S/m; $\epsilon_r = 56.266$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(9.11, 9.11, 9.11); Calibrated: 2019-03-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn896; Calibrated: 2018-11-08
- Phantom: SAM 1; Type: SAM; Serial: 1283
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=15mm, Pin=250mW/Area Scan (7x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

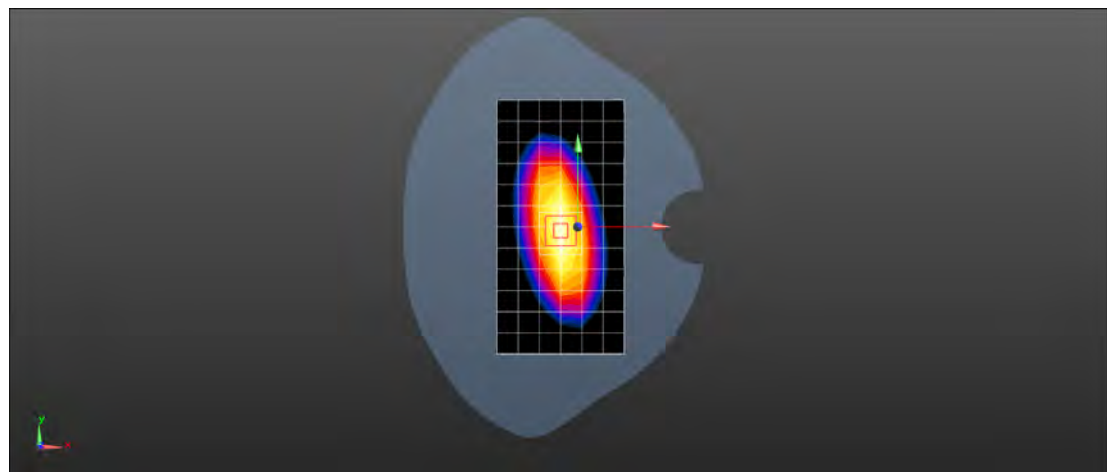
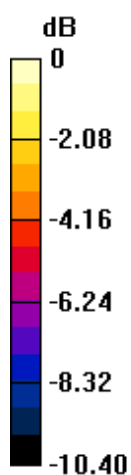
Maximum value of SAR (measured) = 3.14 W/kg

Body/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 50.78 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 2.5 W/kg; SAR(10 g) = 1.65 W/kg



0 dB = 3.14 W/kg = 4.97 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 1750 MHz Head

DUT: D1750V2; Type: D1750V2; Serial: 1149

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

Medium: HSL1750; Medium parameters used: $f = 1750$ MHz; $\sigma = 1.316$ S/m; $\epsilon_r = 40.403$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3962; ConvF(8.44, 8.44, 8.44); Calibrated: 2019-02-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1374; Calibrated: 2018-09-18
- Phantom: SAM 6; Type: SAM; Serial: 1824
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Body/d=10mm, Pin=250mW/Area Scan (7x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 9.74 W/kg

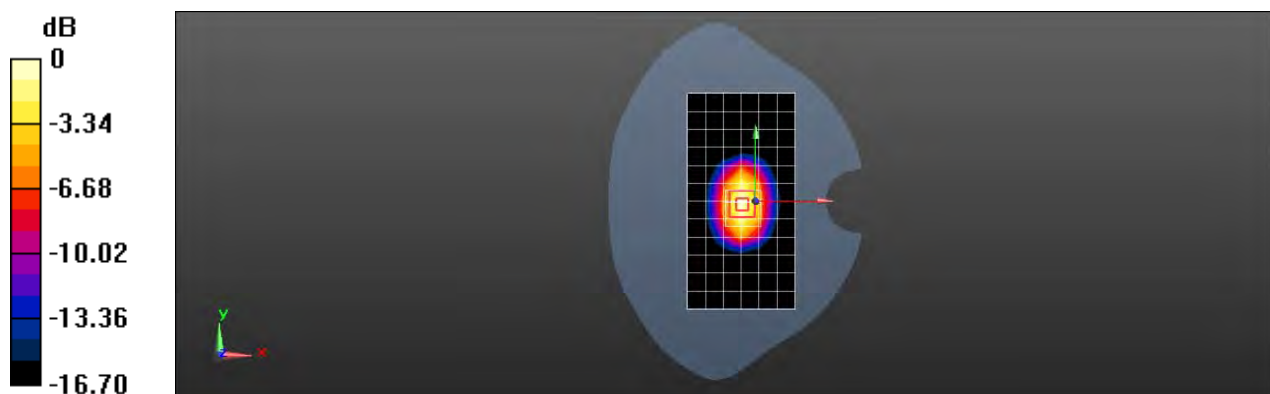
Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 76.52 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 15.9 W/kg

SAR(1 g) = 8.72 W/kg; SAR(10 g) = 4.68 W/kg

Maximum value of SAR (measured) = 9.79 W/kg



0 dB = 9.79 W/kg = 9.91 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 1750 MHz Body

DUT: D1750V2; Type: D1750V2; Serial: 1149

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

Medium: MSL1750; Medium parameters used: $f = 1750$ MHz; $\sigma = 1.494$ S/m; $\epsilon_r = 52.209$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3962; ConvF(8.3, 8.3, 8.3); Calibrated: 2019-02-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1374; Calibrated: 2018-09-18
- Phantom: SAM 6; Type: SAM; Serial: 1824
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Body/d=10mm, Pin=250mW/Area Scan (7x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 12.8 W/kg

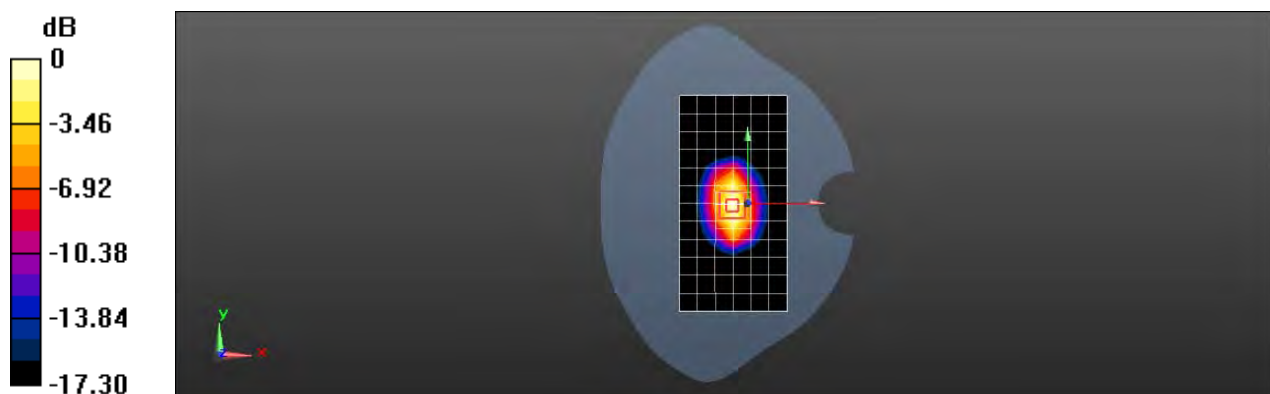
Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 79.25 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 16.1 W/kg

SAR(1 g) = 9.08 W/kg; SAR(10 g) = 4.84 W/kg

Maximum value of SAR (measured) = 12.7 W/kg



0 dB = 12.7 W/kg = 11.04 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 1900 MHz Head

DUT: D1900V2; Type: D1900V2; Serial: 5d028

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

Medium: HSL1900; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.384$ S/m; $\epsilon_r = 38.56$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.51, 8.51, 8.51); Calibrated: 2018-09-30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1428; Calibrated: 2019-01-11
- Phantom: SAM 4; Type: SAM; Serial: 1640
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 11.4 W/kg

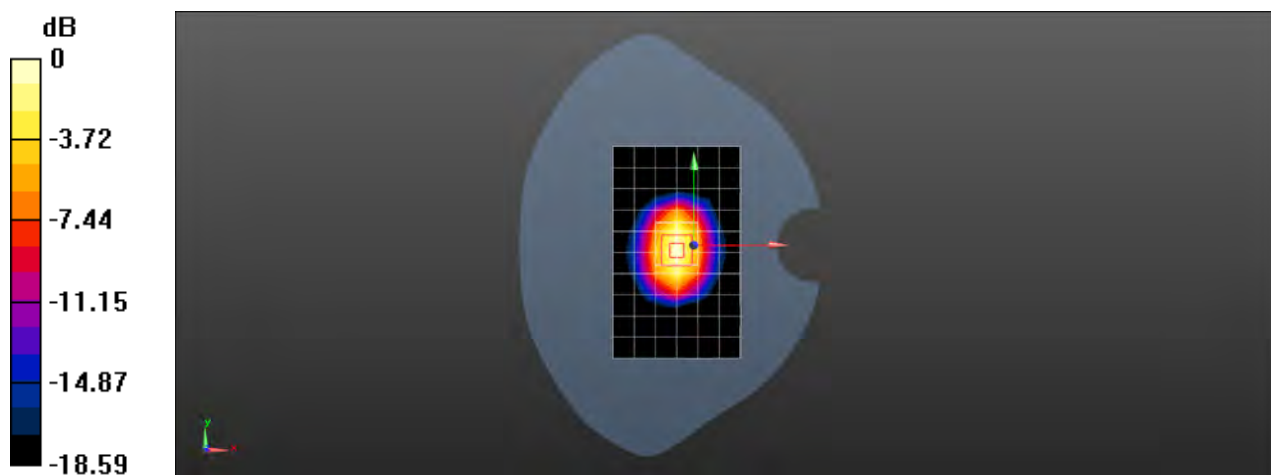
Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 84.20 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 19.5 W/kg

SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.31 W/kg

Maximum value of SAR (measured) = 11.5 W/kg



0 dB = 11.5 W/kg = 10.61 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 1900 MHz Body

DUT: D1900V2; Type: D1900V2; Serial: 5d028

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

Medium: MSL1900; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.499$ S/m; $\epsilon_r = 52.651$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.14, 8.14, 8.14); Calibrated: 2018-09-30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1428; Calibrated: 2019-01-11
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 11.4 W/kg

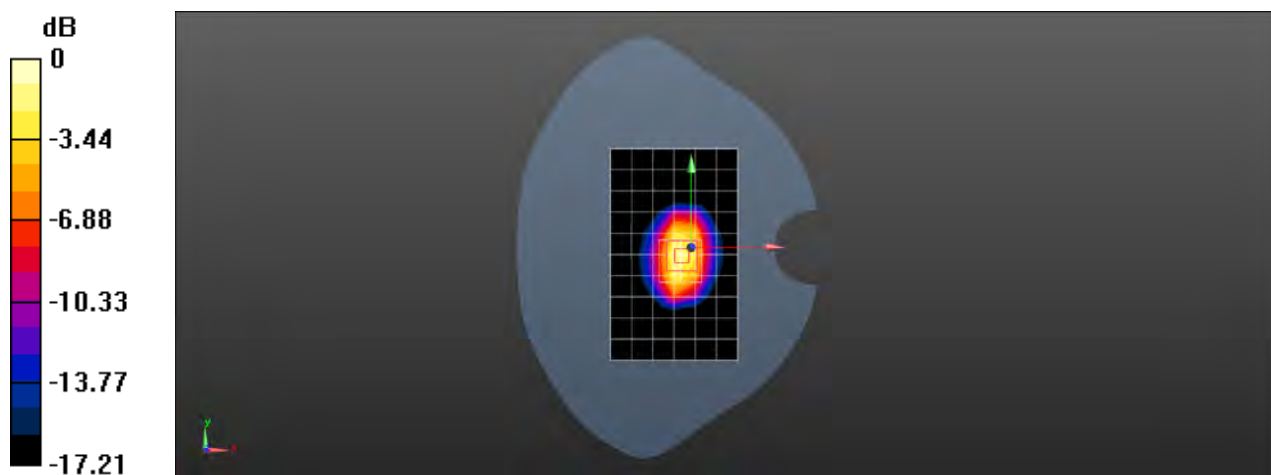
Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 60.09 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 18.2 W/kg

SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.39 W/kg

Maximum value of SAR (measured) = 14.3 W/kg



0 dB = 14.3 W/kg = 11.55 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 1900 MHz Body

DUT: D1900V2; Type: D1900V2; Serial: 5d028

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

Medium: MSL1900; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.524$ S/m; $\epsilon_r = 53.48$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.14, 8.14, 8.14); Calibrated: 2018-09-30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1428; Calibrated: 2019-01-11
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 12.4 W/kg

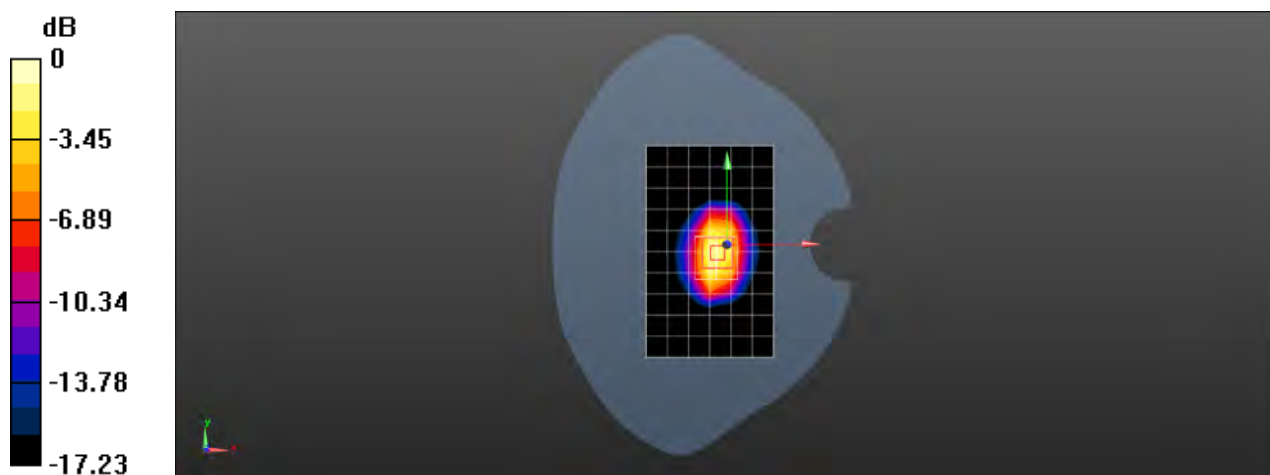
Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 62.11 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 18.5 W/kg

SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.48 W/kg

Maximum value of SAR (measured) = 14.6 W/kg



0 dB = 14.6 W/kg = 11.64 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 2450MHz Head

DUT: D2450V2; Type: D2450V2; Serial: 733

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

Medium: HSL2450; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.797$ S/m; $\epsilon_r = 40.409$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.86, 7.86, 7.86); Calibrated: 2018-09-30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1428; Calibrated: 2019-01-11
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (9x14x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 13.7 W/kg

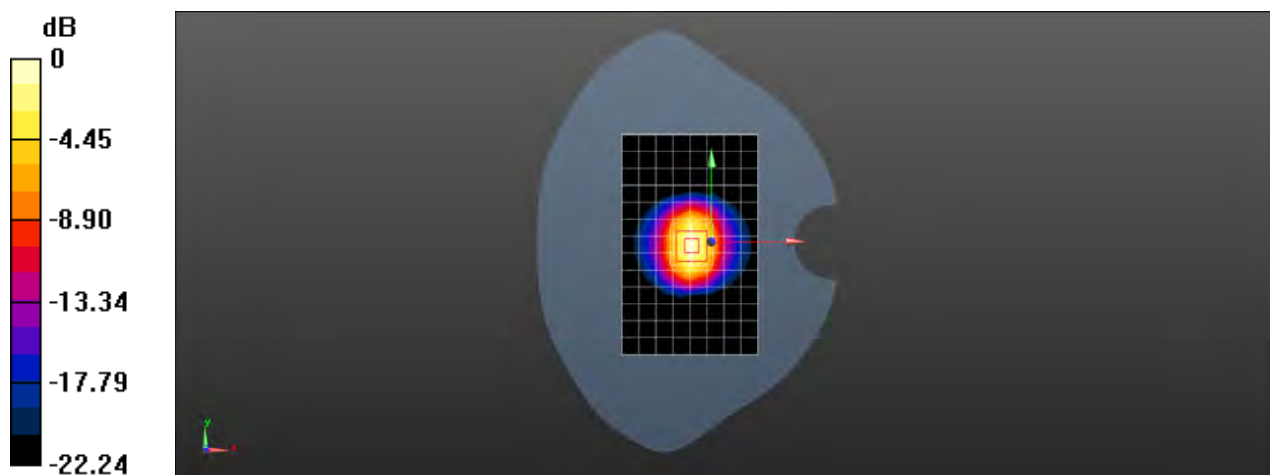
Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 89.07 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 27.5 W/kg

SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.06 W/kg

Maximum value of SAR (measured) = 15.0 W/kg



0 dB = 15.0 W/kg = 11.76 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 2450MHz Head

DUT: D2450V2; Type: D2450V2; Serial: 733

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

Medium: HSL2450; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.811$ S/m; $\epsilon_r = 41.039$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3962; ConvF(7.58, 7.58, 7.58); Calibrated: 2019-02-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1374; Calibrated: 2018-09-18
- Phantom: SAM 6; Type: SAM; Serial: 1824
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Body/d=10mm, Pin=250mW/Area Scan (9x14x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 13.6 W/kg

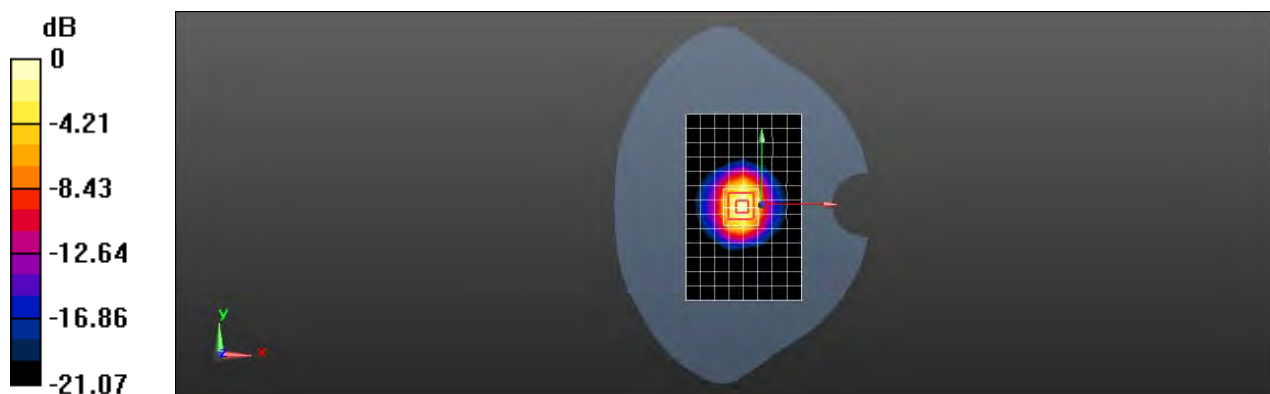
Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 90.52 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 25.6 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.14 W/kg

Maximum value of SAR (measured) = 14.7 W/kg



Test Laboratory: SGS-SAR Lab

System Performance Check 2450MHz Head

DUT: D2450V2; Type: D2450V2; Serial: 733

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

Medium: HSL2450; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.784$ S/m; $\epsilon_r = 40.738$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.86, 7.86, 7.86); Calibrated: 2018-09-30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1428; Calibrated: 2019-01-11
- Phantom: SAM 3; Type: SAM; Serial: 1912
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (9x15x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 20.3 W/kg

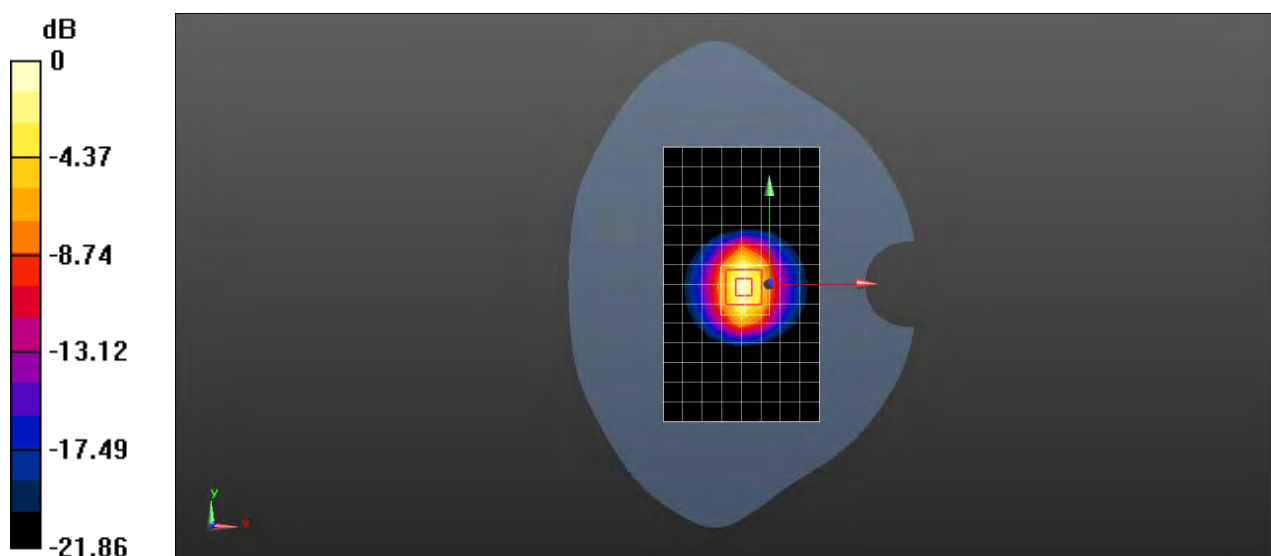
Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 90.35 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 25.5 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.03 W/kg

Maximum value of SAR (measured) = 20.8 W/kg



0 dB = 20.8 W/kg = 13.18 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 2450MHz Body

DUT: D2450V2; Type: D2450V2; Serial: 733

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

Medium: MSL2450; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.97$ S/m; $\epsilon_r = 52.708$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(7.12, 7.12, 7.12); Calibrated: 2019-03-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn896; Calibrated: 2018-11-08
- Phantom: SAM 2; Type: SAM; Serial: 1913
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (10x14x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 13.5 W/kg

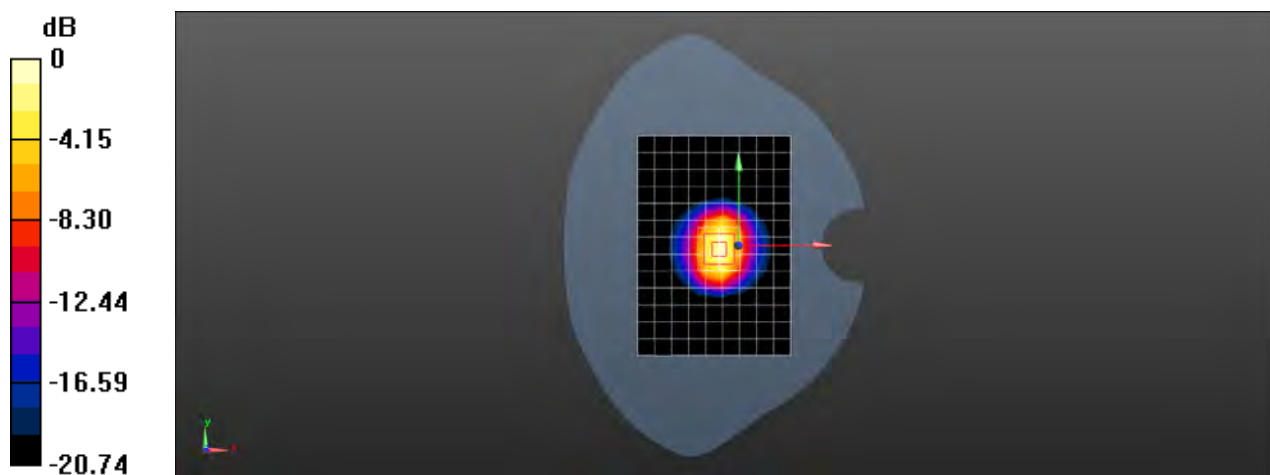
Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 76.86 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 25.3 W/kg

SAR(1 g) = 12.6 W/kg; SAR(10 g) = 5.93 W/kg

Maximum value of SAR (measured) = 14.6 W/kg



0 dB = 14.6 W/kg = 11.64 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 2450MHz Body

DUT: D2450V2; Type: D2450V2; Serial: 733

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

Medium: MSL2450; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.984$ S/m; $\epsilon_r = 50.375$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3962; ConvF(7.7, 7.7, 7.7); Calibrated: 2019-02-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1374; Calibrated: 2018-09-18
- Phantom: SAM 6; Type: SAM; Serial: 1824
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Body/d=10mm, Pin=250mW/Area Scan (10x14x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 13.6 W/kg

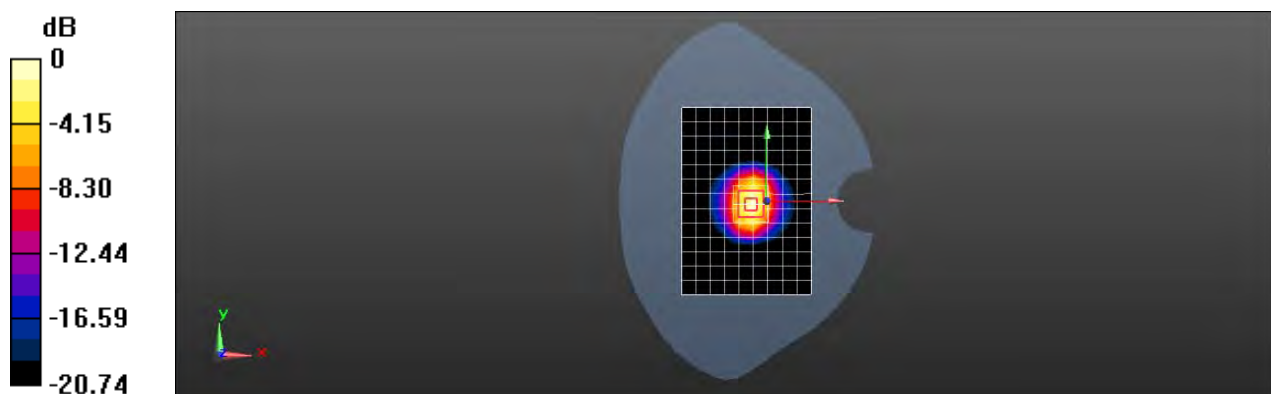
Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 78.57 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 25.5 W/kg

SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.98 W/kg

Maximum value of SAR (measured) = 14.7 W/kg



Test Laboratory: SGS-SAR Lab

System Performance Check 2600MHz Head

DUT: D2600V2; Type: D2600V2; Serial: 1125

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

Medium: HSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.994$ S/m; $\epsilon_r = 39.429$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(6.78, 6.78, 6.78); Calibrated: 2019-03-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn896; Calibrated: 2018-11-08
- Phantom: SAM 1; Type: SAM; Serial: 1283
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Body/d=10mm, Pin=250mW/Area Scan (10x13x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 14.5 W/kg

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

Reference Value = 89.51 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 31.8 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.23 W/kg

Maximum value of SAR (measured) = 16.2 W/kg



0 dB = 16.2 W/kg = 12.10 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 2600MHz Body

DUT: D2600V2; Type: D2600V2; Serial: 1125

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

Medium: MSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 2.127$ S/m; $\epsilon_r = 50.348$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(6.87, 6.87, 6.87); Calibrated: 2019-03-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn896; Calibrated: 2018-11-08
- Phantom: SAM 2; Type: SAM; Serial: 1913
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

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

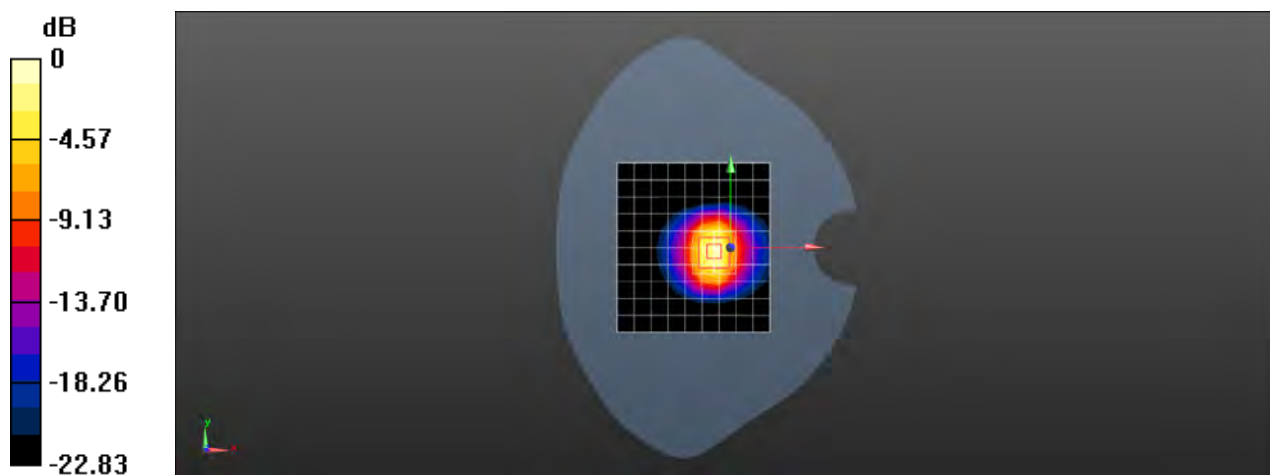
Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 76.35 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 27.1 W/kg

SAR(1 g) = 13.1 W/kg; SAR(10 g) = 5.93 W/kg

Maximum value of SAR (measured) = 20.3 W/kg



0 dB = 20.3 W/kg = 13.07 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 2600MHz Body

DUT: D2600V2; Type: D2600V2; Serial: 1125

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

Medium: MSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 2.161$ S/m; $\epsilon_r = 52.234$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3793; ConvF(6.87, 6.87, 6.87); Calibrated: 2019-03-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn896; Calibrated: 2018-11-08
- Phantom: SAM 2; Type: SAM; Serial: 1913
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 17.4 W/kg

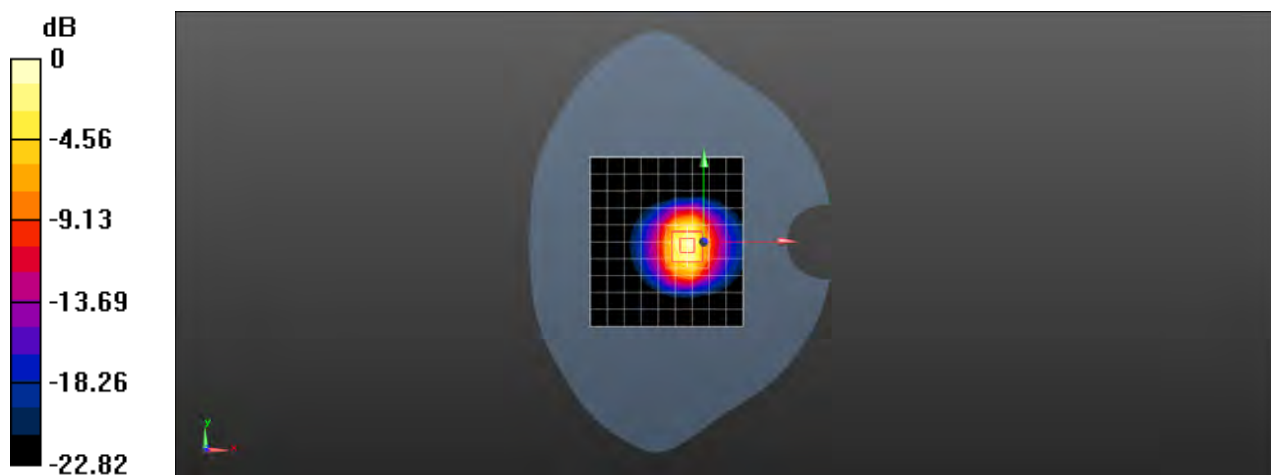
Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 77.12 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 27.5 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.02 W/kg

Maximum value of SAR (measured) = 20.6 W/kg



0 dB = 20.6 W/kg = 13.14 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 5.25GHz Head

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

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

Medium: HSL5GHz; Medium parameters used: $f = 5250$ MHz; $\sigma = 4.675$ S/m; $\epsilon_r = 36.725$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3962; ConvF(5.55, 5.55, 5.55); Calibrated: 2019-02-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 23.4$
- Electronics: DAE4 Sn1374; Calibrated: 2018-09-18
- Phantom: SAM 6; Type: SAM; Serial: 1824
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Body/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (10x10x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 12.1 W/kg

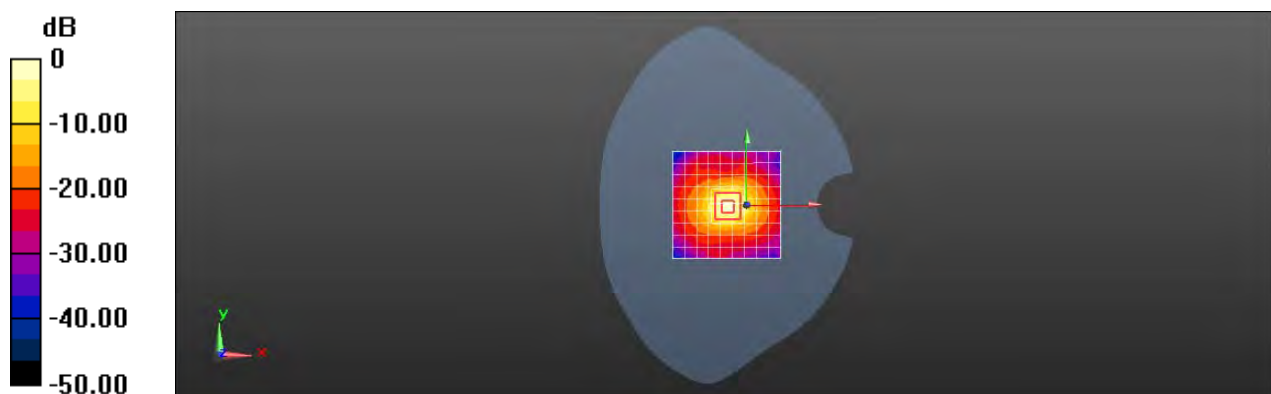
Body/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 65.76 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 29.1 W/kg

SAR(1 g) = 7.03 W/kg; SAR(10 g) = 2 W/kg

Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg = 12.20 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 5.25GHz Body

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

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

Medium: MSL5GHz; Medium parameters used: $f = 5250$ MHz; $\sigma = 5.426$ S/m; $\epsilon_r = 48.122$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3962; ConvF(5.1, 5.1, 5.1); Calibrated: 2019-02-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 23.4$
- Electronics: DAE4 Sn1374; Calibrated: 2018-09-18
- Phantom: ELI v5.0 Left ; Type: ELI V5.0 ; Serial: TP:1239
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Body/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (10x10x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 21.7 W/kg

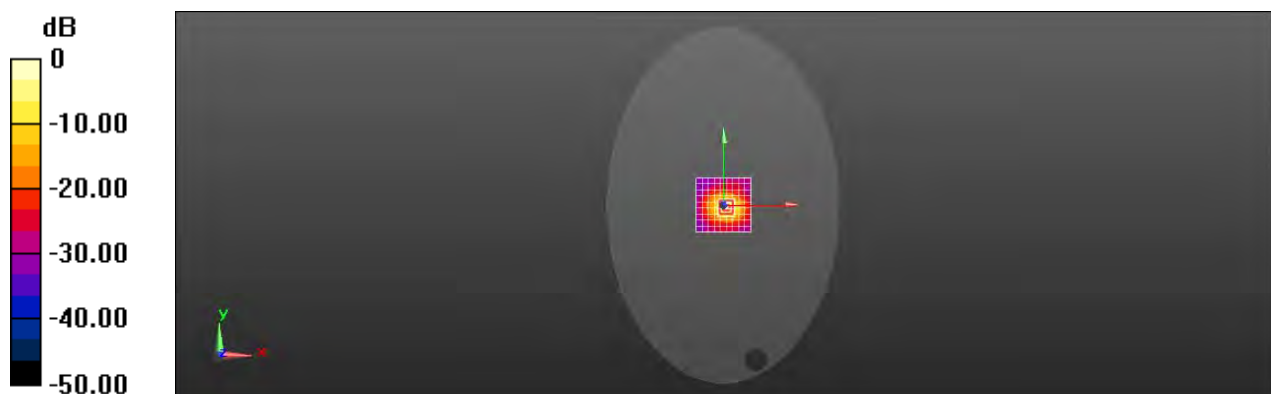
Body/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 53.46 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 36.3 W/kg

SAR(1 g) = 8.1 W/kg; SAR(10 g) = 2.25 W/kg

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



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

Test Laboratory: SGS-SAR Lab

System Performance Check 5.6GHz Head

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

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

Medium: HSL5GHz; Medium parameters used: $f = 5600$ MHz; $\sigma = 5.058$ S/m; $\epsilon_r = 35.773$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3962; ConvF(4.8, 4.8, 4.8); Calibrated: 2019-02-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 23.4$
- Electronics: DAE4 Sn1374; Calibrated: 2018-09-18
- Phantom: SAM 6; Type: SAM; Serial: 1824
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Body/d=10mm, Pin=100mW, f=5600 MHz/Area Scan (10x10x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 16.3 W/kg

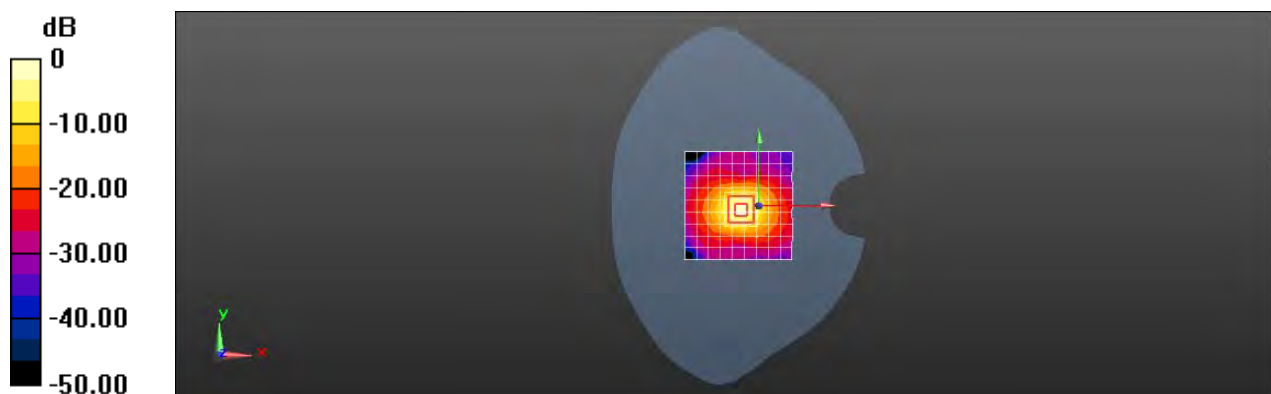
Body/d=10mm, Pin=100mW, f=5600 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 64.12 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 34.4 W/kg

SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.14 W/kg

Maximum value of SAR (measured) = 19.0 W/kg



0 dB = 19.0 W/kg = 12.79 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 5.6GHz Body

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

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

Medium: MSL5GHz; Medium parameters used: $f = 5600$ MHz; $\sigma = 5.85$ S/m; $\epsilon_r = 47.19$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3962; ConvF(4.33, 4.33, 4.33); Calibrated: 2019-02-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 23.4$
- Electronics: DAE4 Sn1374; Calibrated: 2018-09-18
- Phantom: ELI v5.0 Left ; Type: ELI V5.0 ; Serial: TP:1239
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Body/d=10mm, Pin=100mW, f=5600 MHz/Area Scan (10x10x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 23.2 W/kg

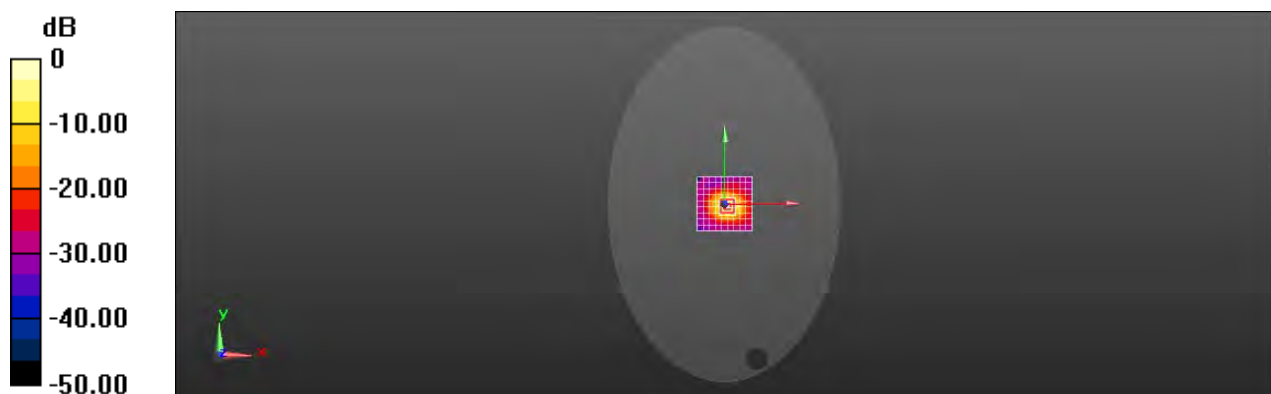
Body/d=10mm, Pin=100mW, f=5600 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 54.06 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 39.7 W/kg

SAR(1 g) = 8.49 W/kg; SAR(10 g) = 2.35 W/kg

Maximum value of SAR (measured) = 21.2 W/kg



Test Laboratory: SGS-SAR Lab

System Performance Check 5.75GHz Body

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

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

Medium: MSL5GHz; Medium parameters used: $f = 5750$ MHz; $\sigma = 6.017$ S/m; $\epsilon_r = 46.85$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3962; ConvF(4.43, 4.43, 4.43); Calibrated: 2019-02-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -2.0, 23.4$
- Electronics: DAE4 Sn1374; Calibrated: 2018-09-18
- Phantom: ELI v5.0 Left ; Type: ELI V5.0 ; Serial: TP:1239
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Body/d=10mm, Pin=100mW, f=5750 MHz/Area Scan (10x10x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 20.1 W/kg

Body/d=10mm, Pin=100mW, f=5750 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 51.32 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 35.9 W/kg

SAR(1 g) = 7.41 W/kg; SAR(10 g) = 2.05 W/kg

Maximum value of SAR (measured) = 18.6 W/kg



0 dB = 18.6 W/kg = 12.70 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.

Table of SAR System validation summary:

Frequency (MHz)	Date	Probe SN	Probe Type	Probe CAL POINT	PERM (ϵ_r)	COND (σ)	CW Validation			MOD.VALIDATION		
							Sensitivity	Probe Linearity	Probe Isotropy	Modulation	DUTY. FACTOR	PAR
750	2018/10/8	3923	EX3DV4	750 Head	43.298	0.920	PASS	PASS	PASS	N/A	N/A	N/A
835	2018/10/8	3923	EX3DV4	835 Head	40.829	0.916	PASS	PASS	PASS	GMSK	PASS	N/A
1750	2018/10/8	3923	EX3DV4	1750 Head	40.594	1.356	PASS	PASS	PASS	N/A	N/A	N/A
1900	2018/10/8	3923	EX3DV4	1900 Head	41.255	1.438	PASS	PASS	PASS	GMSK	PASS	N/A
2000	2018/10/8	3923	EX3DV4	2000 Head	41.055	1.468	PASS	PASS	PASS	N/A	N/A	N/A
2300	2018/10/8	3923	EX3DV4	2300 Head	39.819	1.642	PASS	PASS	PASS	N/A	N/A	N/A
2450	2018/10/8	3923	EX3DV4	2450 Head	39.275	1.805	PASS	PASS	PASS	OFDM	PASS	N/A
2600	2018/10/8	3923	EX3DV4	2600 Head	38.793	1.956	PASS	PASS	PASS	TDD	PASS	N/A
5250	2018/10/8	3923	EX3DV4	5250 Head	36.650	4.695	PASS	PASS	PASS	OFDM	PASS	N/A
5600	2018/10/8	3923	EX3DV4	5600 Head	35.758	5.079	PASS	PASS	PASS	OFDM	PASS	N/A
5750	2018/10/8	3923	EX3DV4	5750 Head	35.334	5.259	PASS	PASS	PASS	OFDM	PASS	N/A
750	2018/10/8	3923	EX3DV4	750 Body	56.711	0.970	PASS	PASS	PASS	N/A	N/A	N/A
835	2018/10/8	3923	EX3DV4	835 Body	56.378	1.016	PASS	PASS	PASS	GMSK	PASS	N/A
1750	2018/10/8	3923	EX3DV4	1750 Body	54.594	1.468	PASS	PASS	PASS	N/A	N/A	N/A
1900	2018/10/8	3923	EX3DV4	1900 Body	52.650	1.510	PASS	PASS	PASS	GMSK	PASS	N/A
2300	2018/10/8	3923	EX3DV4	2300 Body	51.687	1.845	PASS	PASS	PASS	N/A	N/A	N/A
2450	2018/10/8	3923	EX3DV4	2450 Body	51.327	1.997	PASS	PASS	PASS	OFDM	PASS	N/A
2600	2018/10/8	3923	EX3DV4	2600 Body	50.963	2.165	PASS	PASS	PASS	TDD	PASS	N/A
5250	2018/10/8	3923	EX3DV4	5250 Body	48.638	5.480	PASS	PASS	PASS	OFDM	PASS	N/A
5600	2018/10/8	3923	EX3DV4	5600 Body	47.758	5.975	PASS	PASS	PASS	OFDM	PASS	N/A
5750	2018/10/8	3923	EX3DV4	5750 Body	47.548	6.054	PASS	PASS	PASS	OFDM	PASS	N/A
Frequency (MHz)	Date	Probe SN	Probe Type	Probe CAL POINT	PERM (ϵ_r)	COND (σ)	CW Validation			MOD.VALIDATION		
							Sensitivity	Probe Linearity	Probe Isotropy	Modulation	DUTY. FACTOR	PAR
750	2019/2/29	3962	EX3DV4	750 Head	43.189	0.908	PASS	PASS	PASS	N/A	N/A	N/A
835	2019/2/29	3962	EX3DV4	835 Head	42.726	0.919	PASS	PASS	PASS	GMSK	PASS	N/A
1750	2019/2/29	3962	EX3DV4	1750 Head	41.867	1.378	PASS	PASS	PASS	N/A	N/A	N/A
1900	2019/2/29	3962	EX3DV4	1900 Head	41.844	1.383	PASS	PASS	PASS	GMSK	PASS	N/A
2000	2018/10/8	3923	EX3DV4	2000 Head	41.205	1.458	PASS	PASS	PASS	N/A	N/A	N/A
2300	2019/2/29	3962	EX3DV4	2300 Head	40.428	1.635	PASS	PASS	PASS	N/A	N/A	N/A
2450	2019/2/29	3962	EX3DV4	2450 Head	39.990	1.806	PASS	PASS	PASS	OFDM	PASS	N/A



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2600	2019/2/29	3962	EX3DV4	2600	Head	39.480	1.980	PASS	PASS	PASS	TDD	PASS	N/A
5250	2019/2/29	3962	EX3DV4	5250	Head	36.070	4.747	PASS	PASS	PASS	OFDM	PASS	N/A
5600	2019/2/29	3962	EX3DV4	5600	Head	35.130	5.127	PASS	PASS	PASS	OFDM	PASS	N/A
5750	2019/2/29	3962	EX3DV4	5750	Head	34.790	5.319	PASS	PASS	PASS	OFDM	PASS	N/A
750	2019/2/29	3962	EX3DV4	750	Body	56.876	0.933	PASS	PASS	PASS	N/A	N/A	N/A
835	2019/2/29	3962	EX3DV4	835	Body	55.460	0.976	PASS	PASS	PASS	GMSK	PASS	N/A
1750	2019/2/29	3962	EX3DV4	1750	Body	53.570	1.476	PASS	PASS	PASS	N/A	N/A	N/A
1900	2019/2/29	3962	EX3DV4	1900	Body	53.090	1.478	PASS	PASS	PASS	GMSK	PASS	N/A
2300	2019/2/29	3962	EX3DV4	2300	Body	51.260	1.784	PASS	PASS	PASS	N/A	N/A	N/A
2450	2019/2/29	3962	EX3DV4	2450	Body	52.770	1.960	PASS	PASS	PASS	OFDM	PASS	N/A
2600	2019/2/29	3962	EX3DV4	2600	Body	51.423	2.177	PASS	PASS	PASS	TDD	PASS	N/A
5250	2019/2/29	3962	EX3DV4	5250	Body	48.430	5.372	PASS	PASS	PASS	OFDM	PASS	N/A
5600	2019/2/29	3962	EX3DV4	5600	Body	47.510	5.783	PASS	PASS	PASS	OFDM	PASS	N/A
5750	2019/2/29	3962	EX3DV4	5750	Body	47.170	5.949	PASS	PASS	PASS	OFDM	PASS	N/A
Frequency (MHz)	Date	Probe SN	Probe Type	Probe CAL POINT		PERM (ϵ)	COND (σ)	CW Validation			MOD.VALIDATION		
								Sensitivity	Probe Linearity	Probe Isotropy	Modulation	DUTY. FACTOR	PAR
750	2019/3/27	3793	EX3DV4	750	Head	42.716	0.887	PASS	PASS	PASS	N/A	N/A	N/A
835	2019/3/27	3793	EX3DV4	835	Head	42.933	0.914	PASS	PASS	PASS	GMSK	PASS	N/A
1750	2019/3/27	3793	EX3DV4	1750	Head	40.665	1.405	PASS	PASS	PASS	N/A	N/A	N/A
1900	2019/3/27	3793	EX3DV4	1900	Head	40.1567	1.419	PASS	PASS	PASS	GMSK	PASS	N/A
2450	2019/3/27	3793	EX3DV4	2450	Head	40.116	1.839	PASS	PASS	PASS	OFDM	PASS	N/A
2600	2019/3/27	3793	EX3DV4	2600	Head	38.986	2.009	PASS	PASS	PASS	TDD	PASS	N/A
750	2019/3/27	3793	EX3DV4	750	Body	56.319	0.979	PASS	PASS	PASS	N/A	N/A	N/A
835	2019/3/27	3793	EX3DV4	835	Body	55.989	0.998	PASS	PASS	PASS	GMSK	PASS	N/A
1750	2019/3/27	3793	EX3DV4	1750	Body	53.992	1.492	PASS	PASS	PASS	N/A	N/A	N/A
1900	2019/3/27	3793	EX3DV4	1900	Body	53.938	1.576	PASS	PASS	PASS	GMSK	PASS	N/A
2450	2019/3/27	3793	EX3DV4	2450	Body	52.439	1.888	PASS	PASS	PASS	OFDM	PASS	N/A
2600	2019/3/27	3793	EX3DV4	2600	Body	52.117	2.178	PASS	PASS	PASS	TDD	PASS	N/A

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.