

Appendix A. System Check Plots

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SystemPerformanceCheck-D750-EX-Head

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1044

Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1 Medium parameters used: f = 750 MHz; $\sigma = 0.932$ S/m; $\varepsilon_r = 40.42$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

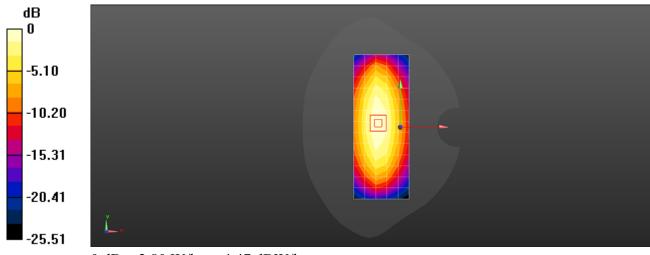
- Probe: EX3DV4 SN3736; ConvF(9.1, 9.1, 9.1) @ 750 MHz; Calibrated: 2018-4-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2018-7-18
- Phantom: SAM9; Type: SAM; Serial: 1958
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/d=15mm, Pin=250mW/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAB (measured) = 2.80 W/kg

Maximum value of SAR (measured) = 2.80 W/kg

Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm Reference Value = 55.88 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 3.24 W/kg SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.36 W/kg Maximum value of SAR (measured) = 2.85 W/kg



0 dB = 2.80 W/kg = 4.47 dBW/kg

SystemPerformanceCheck-D835-EX-Head

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d126

Communication System: UID 0, CW; Frequency: 835 MHz;Duty Cycle: 1:1 Medium parameters used: f = 835 MHz; $\sigma = 0.934$ S/m; $\varepsilon_r = 40.56$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

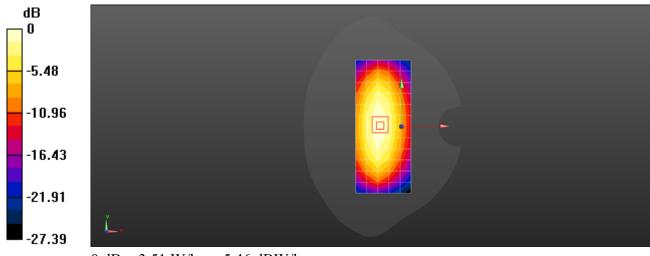
- Probe: EX3DV4 SN3736; ConvF(8.86, 8.86, 8.86) @ 835 MHz; Calibrated: 2018-4-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = -9.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2018-7-18
- Phantom: SAM9; Type: SAM; Serial: 1958
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/d=15mm, Pin=250mW/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm Movimum value of SAP (measured) = 2.51 W//kg

Maximum value of SAR (measured) = 3.51 W/kg

Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm Reference Value = 61.48 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 3.90 W/kg SAR(1 g) = 2.52 W/kg; SAR(10 g) = 1.62 W/kg Maximum value of SAR (measured) = 3.40 W/kg



0 dB = 3.51 W/kg = 5.46 dBW/kg

SystemPerformanceCheck-D1750-EX-Head

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1123

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

Medium parameters used: f = 1750 MHz; $\sigma = 1.377 \text{ S/m}$; $\varepsilon_r = 40.018$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

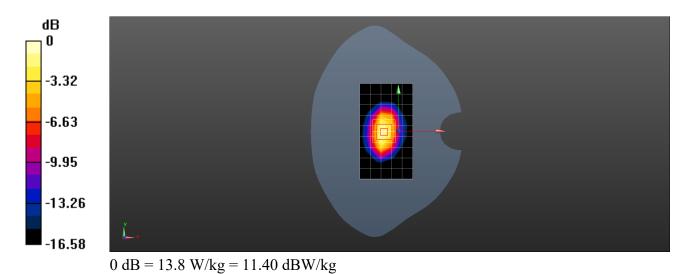
- Probe: EX3DV4 SN7381; ConvF(8.79, 8.79, 8.79) @ 1750 MHz; Calibrated: 2018-9-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

Maximum value of SAR (measured) = 11.6 W/kg

Configuration/d=10mm Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm Reference Value = 100.8 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 16.1 W/kg SAR(1 g) = 9.06 W/kg; SAR(10 g) = 4.85 W/kg Maximum value of SAR (measured) = 13.8 W/kg



SystemPerformanceCheck-D1750-EX-Head

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1123

Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1750 MHz; $\sigma = 1.332$ S/m; $\varepsilon_r = 39.555$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

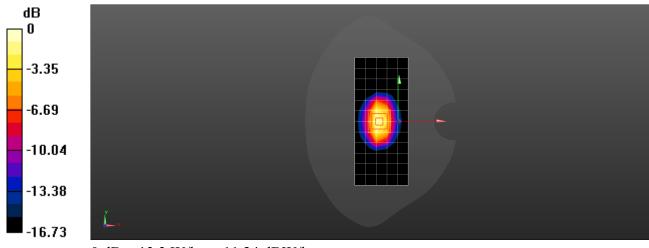
- Probe: EX3DV4 SN7489; ConvF(8.9, 8.9, 8.9) @ 1750 MHz; Calibrated: 2018-1-9
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1531; Calibrated: 2018-1-3
- Phantom: SAM8; Type: SAM; Serial: 1940
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/d=10mm, Pin=250mW/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 11.3 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm Reference Value = 102.3 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 15.5 W/kg SAR(1 g) = 8.76 W/kg; SAR(10 g) = 4.69 W/kg Maximum value of SAR (measured) = 13.3 W/kg



0 dB = 13.3 W/kg = 11.24 dBW/kg

SystemPerformanceCheck-D1900-EX-Head

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d091

Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; $\sigma = 1.428$ S/m; $\varepsilon_r = 39.073$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

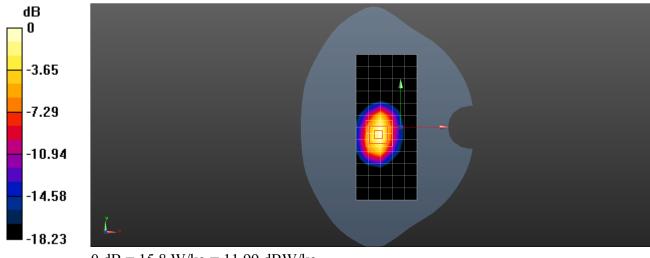
- Probe: EX3DV4 SN3820; ConvF(7.57, 7.57, 7.57) @ 1900 MHz; Calibrated: 2018-6-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn913; Calibrated: 2018-5-11
- Phantom: SAM3; Type: SAM; Serial: 1597
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/d=10mm, pin=250mW/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 14.0 W/kg

Configuration/d=10mm, pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm Reference Value = 81.23 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 18.6 W/kg SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.32 W/kg Maximum value of SAR (measured) = 15.8 W/kg



0 dB = 15.8 W/kg = 11.99 dBW/kg

SystemPerformanceCheck-D1900-EX-Head

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d091

Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; $\sigma = 1.419$ S/m; $\varepsilon_r = 39.366$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

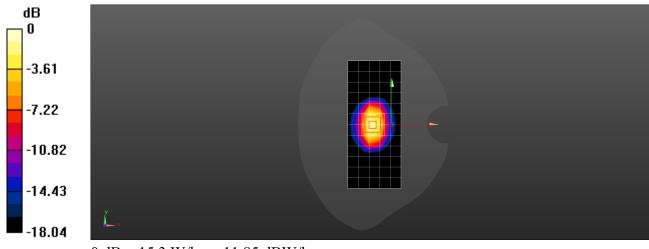
- Probe: EX3DV4 SN7489; ConvF(8.66, 8.66, 8.66) @ 1900 MHz; Calibrated: 2018-1-9
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1531; Calibrated: 2018-1-3
- Phantom: SAM8; Type: SAM; Serial: 1940
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/d=10mm, Pin=250mW/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm

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

Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm Reference Value = 106.5 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 18.1 W/kg SAR(1 g) = 9.87 W/kg; SAR(10 g) = 5.13 W/kg Maximum value of SAR (measured) = 15.3 W/kg



0 dB = 15.3 W/kg = 11.85 dBW/kg

SystemPerformanceCheck-D2450-EX-Head

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:978

Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 2450 MHz; $\sigma = 1.843$ S/m; $\varepsilon_r = 39.13$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 SN3736; ConvF(7.13, 7.13, 7.13) @ 2450 MHz; Calibrated: 2018-4-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2018-7-18
- Phantom: SAM9; Type: SAM; Serial: 1958
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

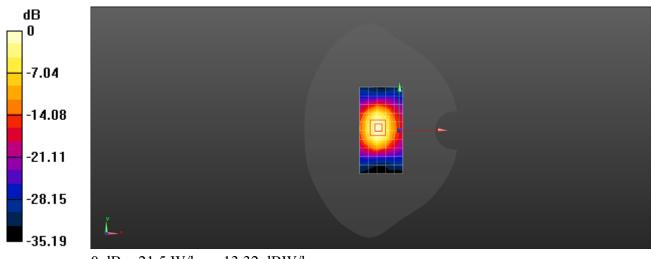
Configuration/d=10mm, Pin=250mW/Area Scan (6x11x1): Measurement grid: dx=12mm, dy=12mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 21.5 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm Reference Value = 103.8 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 28.6 W/kg SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.32 W/kg

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 23.0 W/kg



0 dB = 21.5 W/kg = 13.32 dBW/kg

SystemPerformanceCheck-D2600-EX-Head

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1021

Communication System: UID 0, CW; Frequency: 2600 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2600 MHz; $\sigma = 1.897$ S/m; $\varepsilon_r = 38.156$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

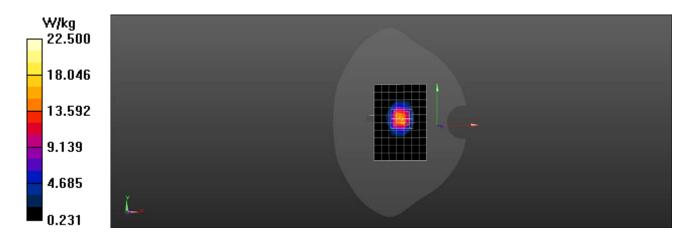
- Probe: EX3DV4 SN7505; ConvF(7.18, 7.18, 7.18) @ 2600 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

Maximum value of SAR (measured) = 16.7 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm Reference Value = 108.6 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 27.2 W/kg SAR(1 g) = 14 W/kg; SAR(10 g) = 6.64 W/kg Maximum value of SAR (measured) = 22.5 W/kg



SystemPerformanceCheck-D2600-EX-Head

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1021

Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2600 MHz; $\sigma = 1.889$ S/m; $\varepsilon_r = 37.24$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

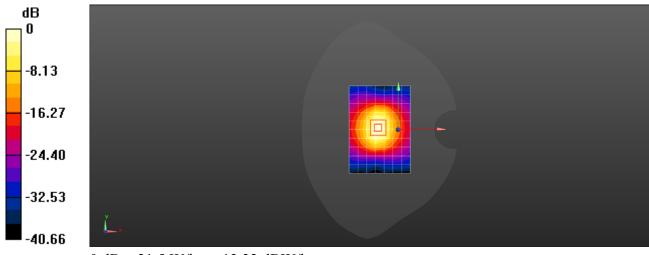
- Probe: EX3DV4 SN3736; ConvF(6.93, 6.93, 6.93) @ 2600 MHz; Calibrated: 2018-4-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2018-7-18
- Phantom: SAM9; Type: SAM; Serial: 1958
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

Maximum value of SAR (measured) = 21.5 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm Reference Value = 111.6 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 30.2 W/kg SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.31 W/kg Maximum value of SAR (measured) = 24.1 W/kg



0 dB = 21.5 W/kg = 13.32 dBW/kg

SystemPerformanceCheck-D2600-EX-Head

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1021

Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2600 MHz; $\sigma = 1.919$ S/m; $\varepsilon_r = 37.937$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

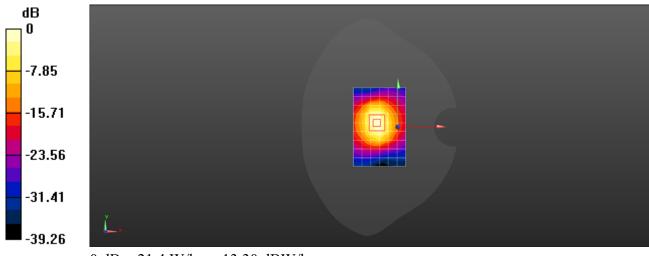
- Probe: EX3DV4 SN3736; ConvF(6.93, 6.93, 6.93) @ 2600 MHz; Calibrated: 2018-4-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2018-7-18
- Phantom: SAM9; Type: SAM; Serial: 1958
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/d=10mm, Pin=250mW/Area Scan (7x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 21.4 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm Reference Value = 106.2 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 30.5 W/kg SAR(1 g) = 14.3 W/kg; SAR(10 g) = 6.41 W/kg Maximum value of SAR (measured) = 24.4 W/kg



0 dB = 21.4 W/kg = 13.30 dBW/kg

SystemPerformanceCheck-D5750-EX-Head

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155

Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1 Medium parameters used: f = 5750 MHz; $\sigma = 5.03$ S/m; $\varepsilon_r = 34.33$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

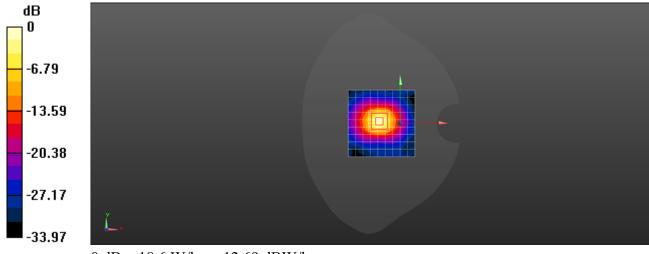
- Probe: EX3DV4 SN3736; ConvF(4.62, 4.62, 4.62) @ 5750 MHz; Calibrated: 2018-4-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
- Electronics: DAE4 Sn851; Calibrated: 2018-7-18
- Phantom: SAM9; Type: SAM; Serial: 1958
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/d=10mm, Pin=100mW/Area Scan (10x10x1): Measurement grid:

dx=10mm, dy=10mm Maximum value of SAR (measured) = 18.6 W/kg

Configuration/d=10mm, Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=1.4mm Reference Value = 63.20 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 34.6 W/kg SAR(1 g) = 7.9 W/kg; SAR(10 g) = 2.26 W/kg Maximum value of SAR (measured) = 18.9 W/kg



0 dB = 18.6 W/kg = 12.69 dBW/kg

SystemPerformanceCheck-D750-EX-Body

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1044

Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1 Medium parameters used: f = 750 MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 54.028$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

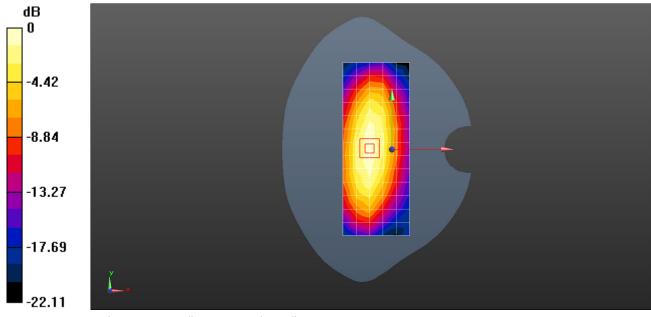
- Probe: EX3DV4 SN3744; ConvF(9.54, 9.54, 9.54) @ 750 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE3 Sn393; Calibrated: 2018-8-14
- Phantom: SAM2; Type: SAM; Serial: 1474
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/d=15mm, Pin=250mW/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.89 W/kg

Configuration/d=15mm, Pin=250mW/Zoom Scan (5x6x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm Reference Value = 49.51 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 2.82 W/kg SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.51 W/kg Maximum value of SAR (measured) = 2.66 W/kg



0 dB = 2.89 W/kg = 4.61 dBW/kg

SystemPerformanceCheck-D750-EX-Body

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1044

Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1 Medium parameters used: f = 750 MHz; $\sigma = 0.974$ S/m; $\epsilon_r = 54.827$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

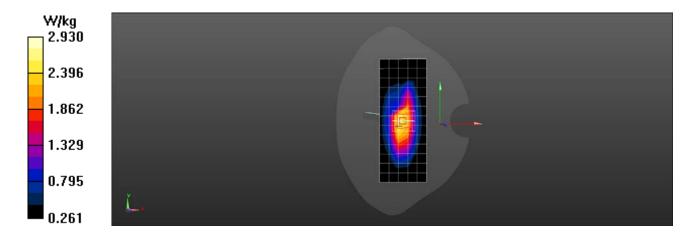
- Probe: EX3DV4 SN3744; ConvF(9.54, 9.54, 9.54) @ 750 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/d=15mm, Pin=250mW/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.60 W/kg

Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm Reference Value = 56.80 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 3.34 W/kg SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.42 W/kg Maximum value of SAR (measured) = 2.93 W/kg



SystemPerformanceCheck-D835-EX-Body

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d126

Communication System: UID 0, CW; Frequency: 835 MHz;Duty Cycle: 1:1 Medium parameters used: f = 835 MHz; $\sigma = 1.006$ S/m; $\epsilon_r = 53.797$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

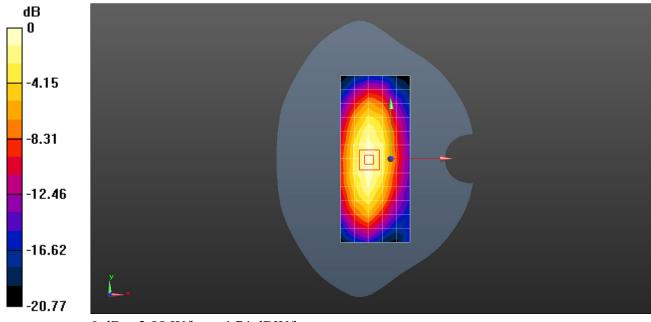
- Probe: EX3DV4 SN3744; ConvF(9.12, 9.12, 9.12) @ 835 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE3 Sn393; Calibrated: 2018-8-14
- Phantom: SAM2; Type: SAM; Serial: 1474
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

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

Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm Reference Value = 51.53 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 2.83 W/kg SAR(1 g) = 2.2 W/kg; SAR(10 g) = 1.53 W/kg Maximum value of SAR (measured) = 2.68 W/kg



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

SystemPerformanceCheck-D835-EX-Body

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d059

Communication System: UID 0, CW; Frequency: 835 MHz;Duty Cycle: 1:1 Medium parameters used: f = 835 MHz; $\sigma = 1.006$ S/m; $\epsilon_r = 54.539$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

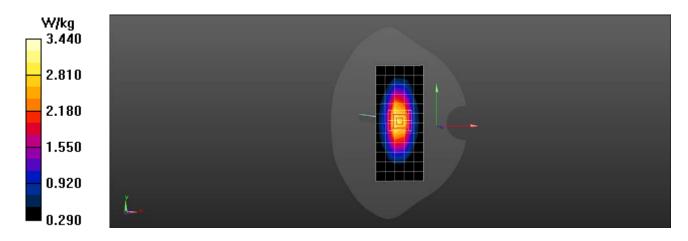
- Probe: EX3DV4 SN3744; ConvF(9.12, 9.12, 9.12) @ 835 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/d=15mm, Pin=250mW/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAB (measured) = 2.01 W//kg

Maximum value of SAR (measured) = 3.01 W/kg

Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm Reference Value = 61.38 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 3.92 W/kg SAR(1 g) = 2.55 W/kg; SAR(10 g) = 1.67 W/kg Maximum value of SAR (measured) = 3.44 W/kg



SystemPerformanceCheck-D835-EX-Body

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d126

Communication System: UID 0, CW; Frequency: 835 MHz;Duty Cycle: 1:1 Medium parameters used: f = 835 MHz; $\sigma = 1.015$ S/m; $\epsilon_r = 53.194$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

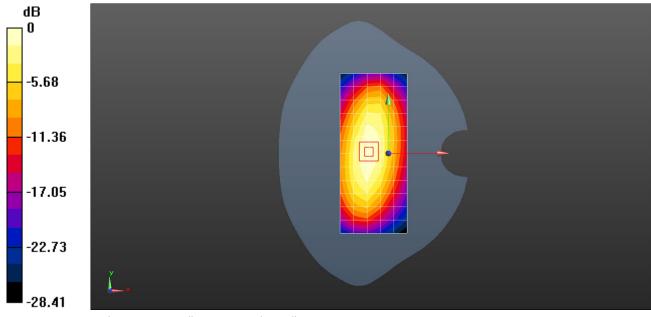
- Probe: EX3DV4 SN3744; ConvF(9.12, 9.12, 9.12) @ 835 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE3 Sn393; Calibrated: 2018-8-14
- Phantom: SAM2; Type: SAM; Serial: 1474
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

Maximum value of SAR (measured) = 3.44 W/kg

Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm Reference Value = 59.26 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 4.03 W/kg SAR(1 g) = 2.57 W/kg; SAR(10 g) = 1.68 W/kg Maximum value of SAR (measured) = 3.51 W/kg



0 dB = 3.44 W/kg = 5.37 dBW/kg

SystemPerformanceCheck-D1750-EX-Body

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1123

Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1750 MHz; $\sigma = 1.461$ S/m; $\varepsilon_r = 52.095$; $\rho = 1000$ kg/m³ Phantom section: Center Section

DASY Configuration:

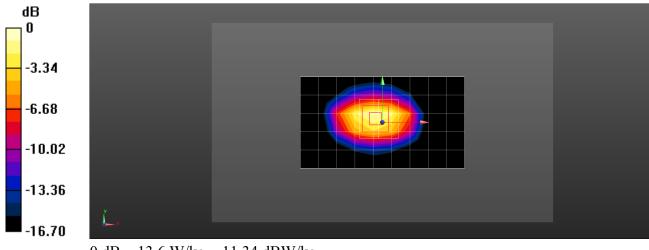
- Probe: EX3DV4 SN7381; ConvF(8.61, 8.61, 8.61) @ 1750 MHz; Calibrated: 2018-9-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- Phantom: Triple Flat Phantom 5.1C; Type: MFP V5.1 C; Serial: 1176/2
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

Maximum value of SAR (measured) = 11.6 W/kg

Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm Reference Value = 96.57 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 16.1 W/kg SAR(1 g) = 9.13 W/kg; SAR(10 g) = 4.91 W/kg Maximum value of SAR (measured) = 13.6 W/kg



0 dB = 13.6 W/kg = 11.34 dBW/kg

SystemPerformanceCheck-D1750-EX-Body

DUT: Dipole 1750 MHz D1750V2; Type: 1750V2; Serial: D1750 V2 -SN1123

Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1750 MHz; $\sigma = 1.476$ S/m; $\varepsilon_r = 52.195$; $\rho = 1000$ kg/m³ Phantom section: Center Section

DASY Configuration:

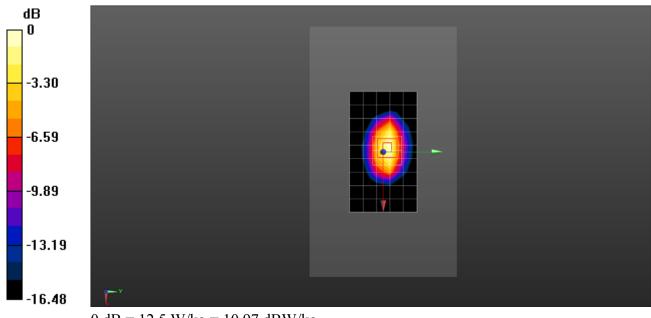
- ¿ Probe: EX3DV4 SN7381; ConvF(8.61, 8.61, 8.61) @ 1750 MHz; Calibrated: 2018-9-28
- z Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ¿ Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- 2 Phantom: Triple Flat Phantom 5.1C; Type: MFP V5.1 C; Serial: 1176/2
- ¿ DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

Maximum value of SAR (measured) = 11.8 W/kg

Configuration/d=10mm Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm Reference Value = 93.25 V/m; Power Drift = -0.14 dB Peak SAR (extrapolated) = 14.8 W/kg SAR(1 g) = 8.38 W/kg; SAR(10 g) = 4.51 W/kg Maximum value of SAR (measured) = 12.5 W/kg



0 dB = 12.5 W/kg = 10.97 dBW/kg

SystemPerformanceCheck-D1900-EX-Body

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d091

Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; $\sigma = 1.487$ S/m; $\varepsilon_r = 50.935$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

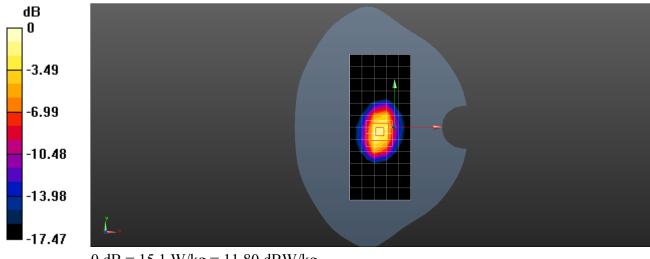
- Probe: EX3DV4 SN3820; ConvF(7.36, 7.36, 7.36) @ 1900 MHz; Calibrated: 2018-6-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn913; Calibrated: 2018-5-11
- Phantom: SAM4; Type: SAM; Serial: 1620
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/d=10mm, pin=250mW/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.78 W/kg

Configuration/d=10mm, pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm Reference Value = 102.5 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 17.8 W/kg SAR(1 g) = 9.91 W/kg; SAR(10 g) = 5.16 W/kg Maximum value of SAR (measured) = 15.1 W/kg



0 dB = 15.1 W/kg = 11.80 dBW/kg

SystemPerformanceCheck-D1900-EX-Body

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d091

Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; $\sigma = 1.478$ S/m; $\epsilon_r = 51.615$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

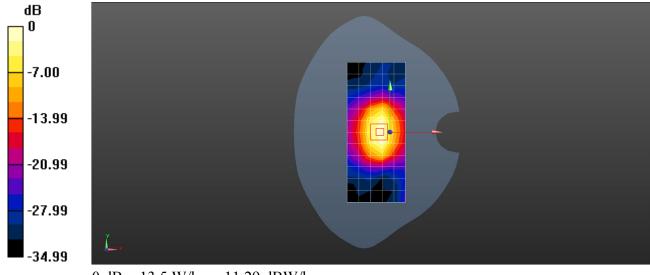
- Probe: EX3DV4 SN3820; ConvF(7.36, 7.36, 7.36) @ 1900 MHz; Calibrated: 2018-6-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn913; Calibrated: 2018-5-11
- Phantom: SAM4; Type: SAM; Serial: 1620
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/d=10mm, pin=250mW/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAP (measured) = 13.5 W/kg

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

Configuration/d=10mm, pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm Reference Value = 99.22 V/m; Power Drift = -0.11 dB Peak SAR (extrapolated) = 17.4 W/kg SAR(1 g) = 9.8 W/kg; SAR(10 g) = 5.13 W/kg Maximum value of SAR (measured) = 14.8 W/kg



0 dB = 13.5 W/kg = 11.29 dBW/kg

SystemPerformanceCheck-D2450-EX-Body

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:978

Communication System: UID 0, CW; Frequency: 2450 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 2450 MHz; $\sigma = 2.024$ S/m; $\varepsilon_r = 50.766$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 SN3744; ConvF(7.39, 7.39, 7.39) @ 2450 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE3 Sn393; Calibrated: 2018-8-14
- Phantom: SAM2; Type: SAM; Serial: 1474
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

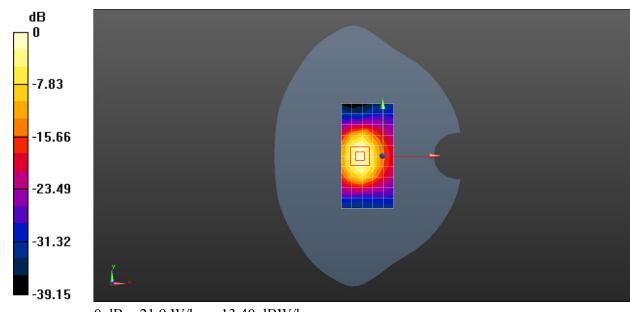
Configuration/d=10mm, Pin=250mW/Area Scan (6x11x1): Measurement grid: dx=12mm, dy=12mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 21.9 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm Reference Value = 79.91 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 27.1 W/kg SAR(1 g) = 12.9 W/kg; SAR(10 g) = 5.94 W/kg

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 21.8 W/kg



0 dB = 21.9 W/kg = 13.40 dBW/kg

SystemPerformanceCheck-D2600-EX-Body

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1032

Communication System: UID 0, CW; Frequency: 2600 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2600 MHz; $\sigma = 2.199$ S/m; $\varepsilon_r = 50.81$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

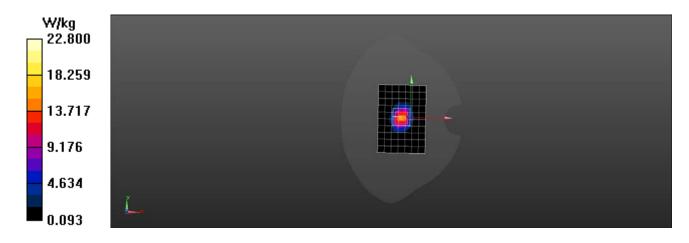
- Probe: EX3DV4 SN3744; ConvF(7.35, 7.35, 7.35) @ 2600 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

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

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm Reference Value = 105.6 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 28.9 W/kg SAR(1 g) = 13.2 W/kg; SAR(10 g) = 5.87 W/kg Maximum value of SAR (measured) = 22.8 W/kg



SystemPerformanceCheck-D2600-EX-Body

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1032

Communication System: UID 0, CW; Frequency: 2600 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2600 MHz; $\sigma = 2.197$ S/m; $\epsilon_r = 50.844$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

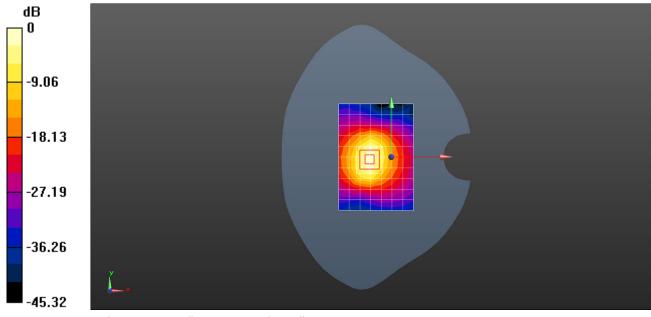
- Probe: EX3DV4 SN3744; ConvF(7.35, 7.35, 7.35) @ 2600 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE3 Sn393; Calibrated: 2018-8-14
- Phantom: SAM2; Type: SAM; Serial: 1474
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

Maximum value of SAR (measured) = 24.3 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm Reference Value = 105.1 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 31.4 W/kg SAR(1 g) = 14.7 W/kg; SAR(10 g) = 6.51 W/kg Maximum value of SAR (measured) = 25.0 W/kg



0 dB = 24.3 W/kg = 13.86 dBW/kg

SystemPerformanceCheck-D2600-EX-Body

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1021

Communication System: UID 0, CW; Frequency: 2600 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2600 MHz; $\sigma = 2.085$ S/m; $\epsilon_r = 50.088$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

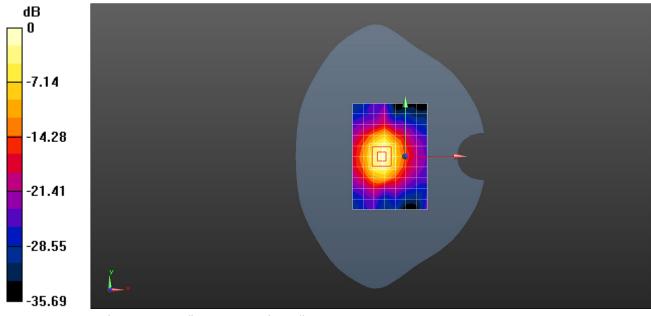
- Probe: EX3DV4 SN7505; ConvF(7.23, 7.23, 7.23) @ 2600 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE3 Sn393; Calibrated: 2018-8-14
- Phantom: SAM2; Type: SAM; Serial: 1474
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

Maximum value of SAR (measured) = 19.9 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm Reference Value = 67.42 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 21.8 W/kg SAR(1 g) = 13 W/kg; SAR(10 g) = 6.3 W/kg Maximum value of SAR (measured) = 19.5 W/kg



0 dB = 19.9 W/kg = 12.99 dBW/kg

SystemPerformanceCheck-D5250-EX-Body

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155

Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 5250 MHz; $\sigma = 5.386$ S/m; $\varepsilon_r = 46.891$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 SN7505; ConvF(4.84, 4.84, 4.84) @ 5250 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
- Electronics: DAE3 Sn393; Calibrated: 2018-8-14
- Phantom: SAM2; Type: SAM; Serial: 1474
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

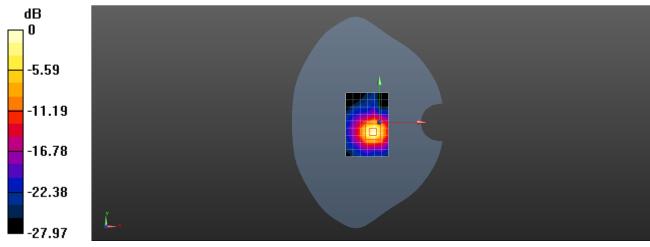
Configuration/d=10mm, Pin=100mW/Area Scan (7x10x1): Measurement grid: dx=10mm, dy=10mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 12.0 W/kg

Configuration/d=10mm, Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=1.4mm Reference Value = 18.17 V/m; Power Drift = -0.18 dB Peak SAR (extrapolated) = 17.5 W/kg SAR(1 g) = 6.89 W/kg; SAR(10 g) = 2.21 W/kg

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 13.6 W/kg



0 dB = 13.6 W/kg = 11.34 dBW/kg

SystemPerformanceCheck-D5250-EX-Body

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155

Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 5250 MHz; $\sigma = 5.308$ S/m; $\varepsilon_r = 47.525$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 SN3820; ConvF(4.23, 4.23, 4.23) @ 5250 MHz; Calibrated: 2018-6-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
- Electronics: DAE4 Sn913; Calibrated: 2018-5-11
- Phantom: SAM4; Type: SAM; Serial: 1620
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/d=10mm, Pin=100mW/Area Scan (10x10x1): Measurement grid:

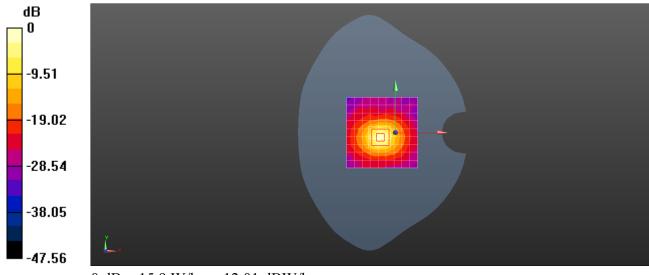
dx=10mm, dy=10mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 12.9 W/kg

Configuration/d=10mm, Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=1.4mm Reference Value = 47.36 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 25.0 W/kg SAR(1 g) = 6.9 W/kg; SAR(10 g) = 1.97 W/kg

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 15.9 W/kg



0 dB = 15.9 W/kg = 12.01 dBW/kg

SystemPerformanceCheck-D5600-EX-Body

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155

Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1 Medium parameters used: f = 5600 MHz; $\sigma = 5.808$ S/m; $\varepsilon_r = 46.922$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

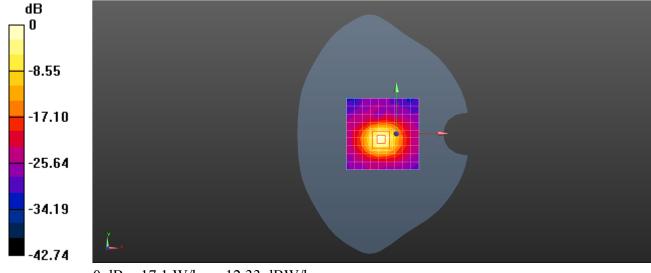
- Probe: EX3DV4 SN3820; ConvF(3.84, 3.84, 3.84) @ 5600 MHz; Calibrated: 2018-6-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
- Electronics: DAE4 Sn913; Calibrated: 2018-5-11
- Phantom: SAM4; Type: SAM; Serial: 1620
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/d=10mm, Pin=100mW/Area Scan (10x10x1): Measurement grid:

dx=10mm, dy=10mm Maximum value of SAR (measured) = 15.8 W/kg

Configuration/d=10mm, Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=1.4mm Reference Value = 47.97 V/m; Power Drift = 0.17 dB Peak SAR (extrapolated) = 29.9 W/kg SAR(1 g) = 7.47 W/kg; SAR(10 g) = 2.12 W/kg Maximum value of SAR (measured) = 17.1 W/kg



0 dB = 17.1 W/kg = 12.33 dBW/kg

SystemPerformanceCheck-D5750-EX-Body

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155

Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1 Medium parameters used: f = 5750 MHz; $\sigma = 6.028$ S/m; $\varepsilon_r = 46.662$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY Configuration:

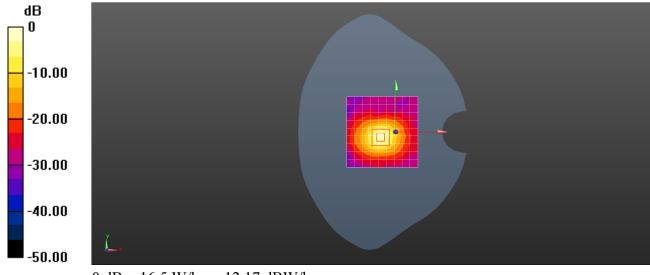
- Probe: EX3DV4 SN3820; ConvF(3.94, 3.94, 3.94) @ 5750 MHz; Calibrated: 2018-6-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0
- Electronics: DAE4 Sn913; Calibrated: 2018-5-11
- Phantom: SAM4; Type: SAM; Serial: 1620
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/d=10mm, Pin=100mW/Area Scan (10x10x1): Measurement grid:

dx=10mm, dy=10mm Maximum value of SAR (measured) = 14.2 W/kg

Configuration/d=10mm, Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=1.4mm Reference Value = 44.20 V/m; Power Drift = 0.19 dB Peak SAR (extrapolated) = 28.5 W/kg SAR(1 g) = 6.81 W/kg; SAR(10 g) = 1.92 W/kgMaximum value of SAR (measured) = 16.5 W/kg



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



System Validation

Per FCC KDB 865664D02, 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.		PROPE	-	PROBE CAL		PERM	COND		CW VALIDATIO	DN	MOD.VALIDATION			
[Mhz]	DATE	PROBE SN	PROBE TYPE		BE CAL	(ɛr)	(σ)	SENSI- TIVITY	PROBE LINARITY	PROBE ISOTROPY	MOD. TYPE	DUTY. FACTORE	PAR	
835	2018/8/22	3744	EX3DV4	835	Head	42.18	0.864	PASS	PASS	PASS	GMSK	PASS	N/A	
1750	2018/8/23	3744	EX3DV4	1750	Head	38.48	1.347	PASS	PASS	PASS	N/A	N/A	N/A	
1900	2018/8/22	3744	EX3DV4	1900	Head	39.15	1.370	PASS	PASS	PASS	GMSK	PASS	N/A	
2300	2018/8/26	3744	EX3DV4	2300	Head	37.99	1.618	PASS	PASS	PASS	N/A	N/A	N/A	
2450	2018/8/27	3744	EX3DV4	2450	Head	38.14	1.759	PASS	PASS	PASS	OFDM	PASS	PASS	
2600	2018/8/24	3744	EX3DV4	2600	Head	40.31	1.903	PASS	PASS	PASS	TDD	PASS	N/A	
835	2018/8/22	3744	EX3DV4	835	Body	53.71	0.994	PASS	PASS	PASS	GMSK	PASS	N/A	
1750	2018/8/22	3744	EX3DV4	1750	Body	54.25	1.493	PASS	PASS	PASS	N/A	N/A	N/A	
1900	2018/8/26	3744	EX3DV4	1900	Body	51.14	1.573	PASS	PASS	PASS	GMSK	PASS	N/A	
2300	2018/8/25	3744	EX3DV4	2300	Body	51.76	1.861	PASS	PASS	PASS	N/A	N/A	N/A	
2450	2018/8/24	3744	EX3DV4	2450	Body	50.95	1.941	PASS	PASS	PASS	OFDM	PASS	PASS	
2600	2018/8/22	3744	EX3DV4	2600	Body	52.20	2.159	PASS	PASS	PASS	TDD	PASS	N/A	

Table of SAR System validation summary:



Table of SAR System validation summary:

FREQ. [Mhz]	DATE	PROBE SN	PROBE TYPE	PROBE CAL POINT		PERM	COND	cv	V VALIDATION		MOD.VALIDATION			
						(ɛr)	(σ)	SENSI-TIVITY	PROBE LINARITY	PROBE ISOTROPY	MOD. TYPE	DUTY. FACTORE	PAR	
835	2018-11-07	7381	EX3DV4	835	Head	40.46	0.940	PASS	PASS	PASS	GMSK	PASS	N/A	
1750	2018-11-07	7381	EX3DV4	1750	Head	38.48	1.384	PASS	PASS	PASS	NA	NA	N/A	
1900	2018-11-07	7381	EX3DV4	1900	Head	39.14	1.463	PASS	PASS	PASS	GMSK	PASS	N/A	
2450	2018-11-05	7381	EX3DV4	2450	Head	38.48	1.859	PASS	PASS	PASS	OFDM	PASS	PASS	
2600	2018-11-07	7381	EX3DV4	2600	Head	37.41	1.917	PASS	PASS	PASS	TDD	PASS	N/A	
5250	2018-11-07	7381	EX3DV4	5250	Head	36.11	4.488	PASS	PASS	PASS	OFDM	N/A	PASS	
835	2018-10-26	7381	EX3DV4	835	Body	53.47	1.012	PASS	PASS	PASS	GMSK	PASS	N/A	
1750	2018-10-26	7381	EX3DV4	1750	Body	51.96	1.486	PASS	PASS	PASS	N/A	N/A	N/A	
1900	2018-10-26	7381	EX3DV4	1900	Body	51.64	1.593	PASS	PASS	PASS	GMSK	PASS	N/A	
2450	2018-10-26	7381	EX3DV4	2450	Body	50.93	2.035	PASS	PASS	PASS	OFDM	PASS	PASS	
2600	2018-10-26	7381	EX3DV4	2600	Body	50.82	2.172	PASS	PASS	PASS	TDD	PASS	N/A	
5750	2018-10-26	7381	EX3DV4	5750	Body	46.37	6.113	PASS	PASS	PASS	OFDM	N/A	PASS	



FREQ.		PROBE	PROBE	PROBE CAL		PERM	COND	С		N	MOD.VALIDATION			
[Mhz]	DATE	SN	ТҮРЕ	_	POINT		(σ)	SENSI-TIVITY	PROBE LINARITY	PROBE ISOTROPY	MOD. TYPE	DUTY. FACTORE	PAR	
750	2018/02/08	7489	EX3DV4	750	Head	41.04	0.874	PASS	PASS	PASS	N/A	N/A	N/A	
835	2018/02/08	7489	EX3DV4	835	Head	40.80	0.902	PASS	PASS	PASS	GMSK	PASS	N/A	
900	2018/02/08	7489	EX3DV4	900	Head	38.87	1.313	PASS	PASS	PASS	GMSK	PASS	N/A	
1750	2018/02/08	7489	EX3DV4	1750	Head	38.87	1.313	PASS	PASS	PASS	NA	NA	N/A	
1900	2018/02/08	7489	EX3DV4	1900	Head	38.67	1.410	PASS	PASS	PASS	GMSK	PASS	N/A	
2000	2018/02/08	7489	EX3DV4	2000	Head	38.51	1.469	PASS	PASS	PASS	N/A	N/A	N/A	
2300	2018/02/08	7489	EX3DV4	2300	Head	38.11	1.672	PASS	PASS	PASS	N/A	N/A	N/A	
2450	2018/02/08	7489	EX3DV4	2450	Head	37.91	1.785	PASS	PASS	PASS	OFDM/TDD	PASS	PASS	
2600	2018/02/08	7489	EX3DV4	2600	Head	37.75	1.905	PASS	PASS	PASS	TDD	PASS	N/A	
5250	2018/02/08	7489	EX3DV4	5250	Head	35.52	4.674	PASS	PASS	PASS	OFDM	PASS	N/A	
5600	2018/02/08	7489	EX3DV4	5600	Head	34.89	5.071	PASS	PASS	PASS	OFDM	PASS	N/A	
5750	2018/02/08	7489	EX3DV4	5750	Head	34.64	5.237	PASS	PASS	PASS	OFDM	PASS	N/A	
750	2018/02/08	7489	EX3DV4	750	Body	55.56	0.942	PASS	PASS	PASS	N/A	N/A	N/A	
835	2018/02/08	7489	EX3DV4	835	Body	55.35	0.974	PASS	PASS	PASS	GMSK	PASS	N/A	
1750	2018/02/08	7489	EX3DV4	1750	Body	53.56	1.454	PASS	PASS	PASS	N/A	N/A	N/A	
1900	2018/02/08	7489	EX3DV4	1900	Body	53.38	1.574	PASS	PASS	PASS	GMSK	PASS	N/A	
2300	2018/02/08	7489	EX3DV4	2300	Body	52.84	1.893	PASS	PASS	PASS	N/A	N/A	N/A	
2450	2018/02/08	7489	EX3DV4	2450	Body	52.63	2.032	PASS	PASS	PASS	OFDM/TDD	PASS	PASS	
2600	2018/02/08	7489	EX3DV4	2600	Body	52.46	2.178	PASS	PASS	PASS	TDD	PASS	N/A	
5250	2018/02/08	7489	EX3DV4	5250	Body	47.45	5.479	PASS	PASS	PASS	OFDM	PASS	N/A	
5600	2018/02/08	7489	EX3DV4	5600	Body	46.74	5.984	PASS	PASS	PASS	OFDM	PASS	N/A	
5750	2018/02/08	7489	EX3DV4	5750	Body	46.44	6.210	PASS	PASS	PASS	OFDM	PASS	N/A	



FREQ.						PERM	COND	c		DN	MOD.VALIDATION			
		PROBE	PROBE		BE CAL				PROBE	PROBE		DUTY.		
[Mhz]	DATE	SN	TYPE	PC	POINT		(σ)	SENSI-TIVITY	LINARITY	ISOTROPY	MOD. TYPE	FACTORE	PAR	
750	2018/7/11	7505	EX3DV4	750	Head	43.58	0.915	PASS	PASS	PASS	N/A	N/A	N/A	
835	2018/7/11	7505	EX3DV4	835	Head	43.36	0.945	PASS	PASS	PASS	GMSK	PASS	N/A	
900	2018/7/11	7505	EX3DV4	900	Head	43.19	0.970	PASS	PASS	PASS	GMSK	PASS	N/A	
1750	2018/7/11	7505	EX3DV4	1750	Head	41.51	1.374	PASS	PASS	PASS	NA	NA	N/A	
1900	2018/7/11	7505	EX3DV4	1900	Head	41.28	1.464	PASS	PASS	PASS	GMSK	PASS	N/A	
2000	2018/7/11	7505	EX3DV4	2000	Head	41.11	1.517	PASS	PASS	PASS	N/A	N/A	N/A	
2300	2018/7/11	7505	EX3DV4	2300	Head	40.75	1.732	PASS	PASS	PASS	N/A	N/A	N/A	
2450	2018/7/11	7505	EX3DV4	2450	Head	40.49	1.843	PASS	PASS	PASS	OFDM/TDD	PASS	PASS	
2600	2018/7/11	7505	EX3DV4	2600	Head	40.33	1.954	PASS	PASS	PASS	TDD	PASS	N/A	
5250	2018/7/11	7505	EX3DV4	5250	Head	35.98	4.529	PASS	PASS	PASS	OFDM	PASS	N/A	
5600	2018/7/11	7505	EX3DV4	5600	Head	35.29	4.941	PASS	PASS	PASS	OFDM	PASS	N/A	
5750	2018/7/11	7505	EX3DV4	5750	Head	35.08	5.117	PASS	PASS	PASS	OFDM	PASS	N/A	
750	2018/7/11	7505	EX3DV4	750	Body	54.84	0.957	PASS	PASS	PASS	N/A	N/A	N/A	
835	2018/7/11	7505	EX3DV4	835	Body	54.68	0.991	PASS	PASS	PASS	GMSK	PASS	N/A	
1750	2018/7/11	7505	EX3DV4	1750	Body	53.15	1.469	PASS	PASS	PASS	N/A	N/A	N/A	
1900	2018/7/11	7505	EX3DV4	1900	Body	53.02	1.577	PASS	PASS	PASS	GMSK	PASS	N/A	
2300	2018/7/11	7505	EX3DV4	2300	Body	52.53	1.880	PASS	PASS	PASS	N/A	N/A	N/A	
2450	2018/7/11	7505	EX3DV4	2450	Body	52.32	2.025	PASS	PASS	PASS	OFDM/TDD	PASS	PASS	
2600	2018/7/11	7505	EX3DV4	2600	Body	52.04	2.165	PASS	PASS	PASS	TDD	PASS	N/A	
5250	2018/7/11	7505	EX3DV4	5250	Body	47.23	5.434	PASS	PASS	PASS	OFDM	PASS	N/A	
5600	2018/7/11	7505	EX3DV4	5600	Body	46.60	5.922	PASS	PASS	PASS	OFDM	PASS	N/A	
5750	2018/7/11	7505	EX3DV4	5750	Body	46.27	6.144	PASS	PASS	PASS	OFDM	PASS	N/A	



FREQ.				PROBE CAL		PERM	COND		CW VALIDATIC	DN .	MOD.VALIDATION		
[Mhz]	DATE	PROBE SN	PROBE TYPE	-	INT	(ɛr)	(ơ)	SENSI- TIVITY	PROBE LINARITY	PROBE ISOTROPY	MOD. TYPE	DUTY. FACTORE	PAR
835	2018/11/26	3820	EX3DV4	835	Head	41.48	0.916	PASS	PASS	PASS	GMSK	PASS	N/A
1750	2018/11/26	3820	EX3DV4	1750	Head	39.60	1.329	PASS	PASS	PASS	NA	NA	N/A
1900	2018/12/17	3820	EX3DV4	1900	Head	39.07	1.428	PASS	PASS	PASS	GMSK	PASS	N/A
2450	2018/11/30	3820	EX3DV4	2450	Head	39.12	1.820	PASS	PASS	PASS	OFDM	PASS	PASS
2600	2018/11/26	3820	EX3DV4	2600	Head	38.36	1.877	PASS	PASS	PASS	TDD	PASS	N/A
835	2018/11/26	3820	EX3DV4	835	Body	54.12	1.012	PASS	PASS	PASS	GMSK	PASS	N/A
1750	2018/11/26	3820	EX3DV4	1750	Body	53.35	1.457	PASS	PASS	PASS	N/A	N/A	N/A
1900	2018/12/17	3820	EX3DV4	1900	Body	50.93	1.487	PASS	PASS	PASS	GMSK	PASS	N/A
2600	2018/11/26	3820	EX3DV4	2600	Body	52.20	2.159	PASS	PASS	PASS	TDD	PASS	N/A
5250	2018/12/14	3820	EX3DV4	5250	Body	47.85	5.277	PASS	PASS	PASS	OFDM	N/A	PASS
5600	2018/12/14	3820	EX3DV4	5600	Body	47.20	5.754	PASS	PASS	PASS	OFDM	N/A	PASS
5750	2018/12/14	3820	EX3DV4	5750	Body	46.92	5.967	PASS	PASS	PASS	OFDM	N/A	PASS

Table of SAR System validation summary:



FREQ.						PERM	COND		CW VALIDATIO	N	MOD.VALIDATION			
[Mhz]	DATE	PROBE SN	PROBE TYPE	PROBE CAL POINT		(ɛr)	(ơ)	SENSI- TIVITY	PROBE LINARITY	PROBE ISOTROPY	MOD. TYPE	DUTY. FACTORE	PAR	
835	2018/10/10	3736	EX3DV4	835	Head	41.02	0.927	PASS	PASS	PASS	GMSK	PASS	N/A	
1900	2018/11/6	3736	EX3DV4	1900	Head	39.52	1.339	PASS	PASS	PASS	GMSK	PASS	N/A	
5250	2018/9/10	3736	EX3DV4	5250	Head	35.11	4.650	PASS	PASS	PASS	OFDM	N/A	PASS	
5600	2018/9/10	3736	EX3DV4	5600	Head	36.06	5.025	PASS	PASS	PASS	OFDM	N/A	PASS	
5750	2018/9/10	3736	EX3DV4	5750	Head	35.23	5.052	PASS	PASS	PASS	OFDM	N/A	PASS	
835	2018/8/23	3736	EX3DV4	835	Body	53.71	0.994	PASS	PASS	PASS	GMSK	PASS	N/A	
1750	2018/10/17	3736	EX3DV4	1750	Body	52.03	1.471	PASS	PASS	PASS	N/A	N/A	N/A	
1900	2018/10/17	3736	EX3DV4	1900	Body	51.57	1.578	PASS	PASS	PASS	GMSK	PASS	N/A	
2450	2018/10/17	3736	EX3DV4	2450	Body	52.19	2.044	PASS	PASS	PASS	OFDM	PASS	PASS	
2600	2018/10/17	3736	EX3DV4	2600	Body	51.94	2.190	PASS	PASS	PASS	TDD	PASS	N/A	
5250	2018/9/10	3736	EX3DV4	5250	Body	48.53	5.598	PASS	PASS	PASS	OFDM	N/A	PASS	
5600	2018/9/10	3736	EX3DV4	5600	Body	48.72	5.999	PASS	PASS	PASS	OFDM	N/A	PASS	
5750	2018/9/10	3736	EX3DV4	5750	Body	48.00	6.207	PASS	PASS	PASS	OFDM	N/A	PASS	

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 865664D01v01 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.