

Appendix A Verification Plots

Appendix A.1 Verification Plots for Verification 750MHz

Date/Time: 2025-07-22 08:35:21

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 750MHz 2025 07 22.da53:0](#)

Input Power: 100 mW

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

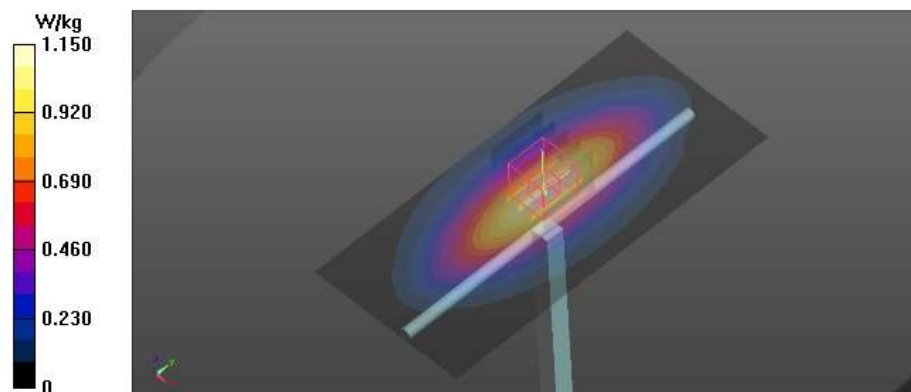
Communication System: UID 0, CW(0) (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.9 \text{ S/m}$; $\epsilon_r = 42.251$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(10.35, 9.68, 9.86) @ 750 MHz; Calibrated: 2025-03-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1595; Calibrated: 2025-01-21
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 2246
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/750 MHz Verification/Area Scan (61x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.15 W/kg

Verification/750 MHz Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 37.20 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.32 W/kg
SAR(1 g) = 0.891 W/kg; SAR(10 g) = 0.589 W/kg
Smallest distance from peaks to all points 3 dB below = 20.5 mm
Ratio of SAR at M2 to SAR at M1 = 67.4%
Maximum value of SAR (measured) = 1.18 W/kg



Appendix A.2 Verification Plots for Verification 1900MHz

Date/Time: 2025-07-23 08:42:52

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 1900MHz 2025-07-23.da53:0](#)

Input Power: 100 mW

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d158

Communication System: UID 0, CW(0) (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.407$ S/m; $\epsilon_r = 39.359$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

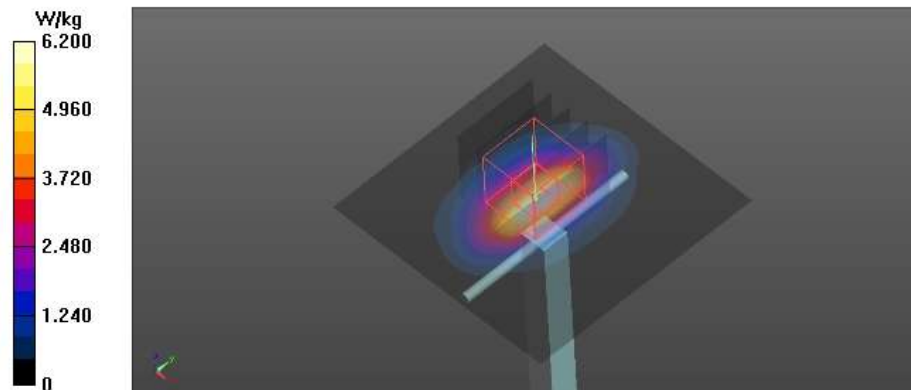
DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(8.28, 7.74, 7.88) @ 1900 MHz; Calibrated: 2025-03-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1595; Calibrated: 2025-01-21
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 2246
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 1900MHz/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 6.20 W/kg

Verification/Verification 1900MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 71.38 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 7.29 W/kg
SAR(1 g) = 4.21 W/kg; SAR(10 g) = 2.24 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 57.6%
Maximum value of SAR (measured) = 6.34 W/kg



Date/Time: 2025-07-24 09:21:42

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 1900MHz 2025-07-24.da53:0](#)

Input Power: 100 mW

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d158

Communication System: UID 0, CW(0) (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.39$ S/m; $\epsilon_r = 39.915$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(8.28, 7.74, 7.88) @ 1900 MHz; Calibrated: 2025-03-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1595; Calibrated: 2025-01-21
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 2246
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 1900MHz/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 5.98 W/kg

Verification/Verification 1900MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 71.37 V/m; Power Drift = -0.18 dB

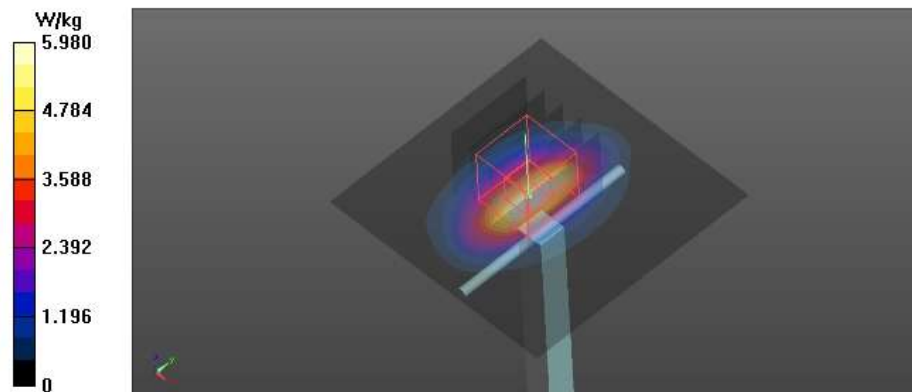
Peak SAR (extrapolated) = 6.91 W/kg

SAR(1 g) = 3.94 W/kg; SAR(10 g) = 2.08 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56.6%

Maximum value of SAR (measured) = 5.98 W/kg



Appendix A.3 Verification Plots for Verification 2600MHz

Date/Time: 2025-07-17 10:56:22

Test Laboratory : SGS Korea (Gunpo Laboratory)
 File Name: [Verification 2600MHz 2025 07 17.da53:0](#)

Input Power: 100 mW

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1038

Communication System: UID 0, CW(0) (0); Frequency: 2600 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2600 \text{ MHz}$; $\sigma = 2.021 \text{ S/m}$; $\epsilon_r = 38.166$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(7.77, 7.26, 7.39) @ 2600 MHz; Calibrated: 2025-03-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1595; Calibrated: 2025-01-21
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 2246
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/2600 MHz Verification/Area Scan (71x101x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$
 Maximum value of SAR (interpolated) = 9.67 W/kg

Verification/2600 MHz Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 67.98 V/m; Power Drift = -0.07 dB

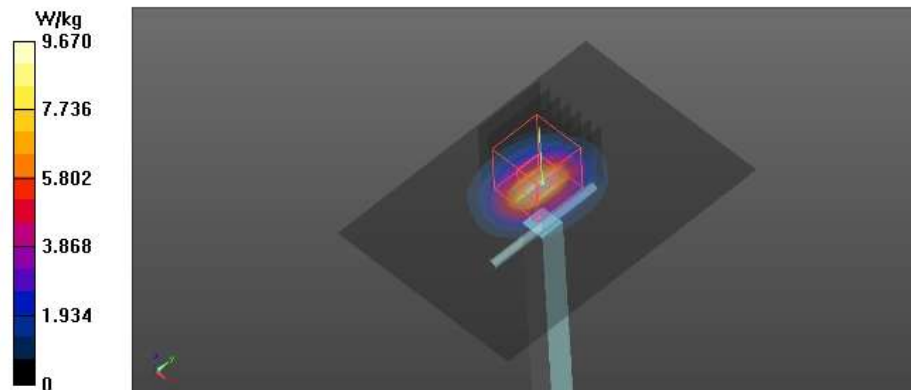
Peak SAR (extrapolated) = 11.1 W/kg

SAR(1 g) = 5.35 W/kg; SAR(10 g) = 2.4 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 48.4%

Maximum value of SAR (measured) = 8.91 W/kg



Appendix B Test Plots

Appendix B.1 Test Plots for LTE25

Date/Time: 2025-07-23 11:19:40

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [LTE25 Front 20MHz 1@0 QPSK CH26365.da53.0](#)

DUT: TFGMEIBBCD1; Type: Telematics device; Serial: EBR25076202 #037(24241)

Communication System: UID 0, LTE FDD (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.392$ S/m; $\epsilon_r = 39.424$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

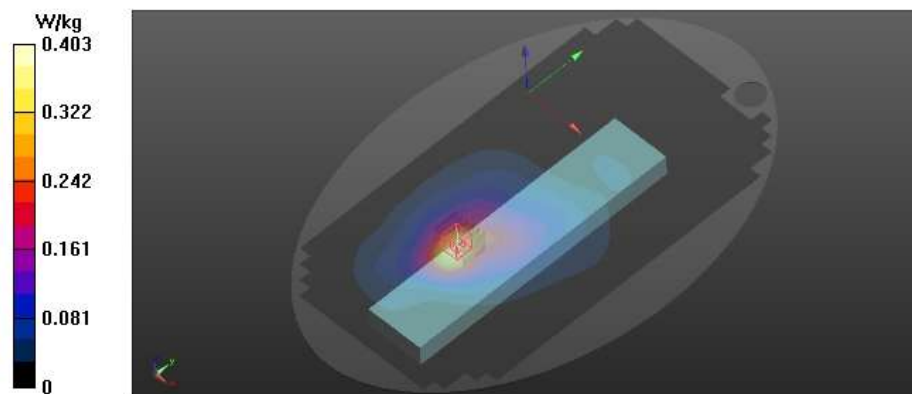
DASY52 Configuration:
- Probe: EX3DV4 - SN7412; ConvF(8.28, 7.74, 7.88) @ 1882.5 MHz; Calibrated: 2025-03-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1595; Calibrated: 2025-01-21
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 2246
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE25 Front 20MHz 1@0 QPSK CH26365/Area Scan (181x331x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.403 W/kg

Body/LTE25 Front 20MHz 1@0 QPSK CH26365/Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.379 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.460 W/kg
SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.187 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 63.5%

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.399 W/kg



Appendix B.2 Test Plots for LTE71

Date/Time: 2025-07-22 12:15:20

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE71 Front 20MHz 1@0 QPSK CH133297.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematics device; Serial: EBR25076202 #037(24241)

Communication System: UID 0, LTE FDD (0); Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 680.5$ MHz; $\sigma = 0.875$ S/m; $\epsilon_r = 42.485$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(10.35, 9.68, 9.86) @ 680.5 MHz; Calibrated: 2025-03-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1595; Calibrated: 2025-01-21
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 2246
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE71 Front 20MHz 1@0 QPSK CH133297/Area Scan (181x331x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0553 W/kg

Body/LTE71 Front 20MHz 1@0 QPSK CH133297/Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.658 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.0610 W/kg

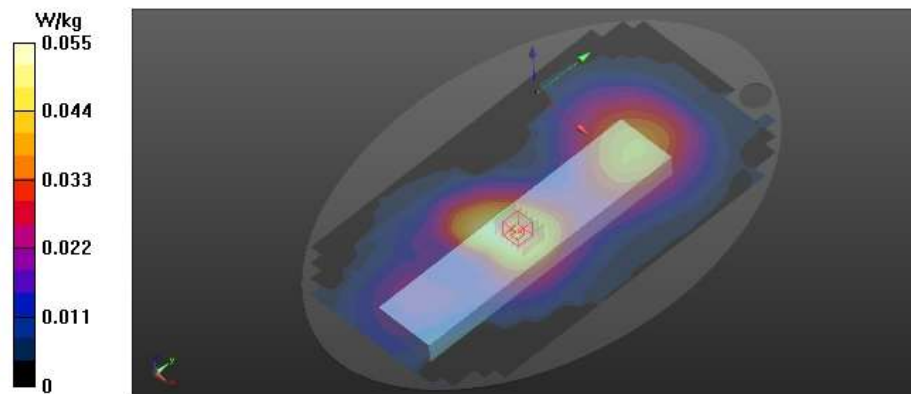
SAR(1 g) = 0.045 W/kg; SAR(10 g) = 0.034 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 73%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0550 W/kg



Appendix B.3 Test Plots for 5GNRn7

Date/Time: 2025-07-17 17:50:32

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn7 Front 15KHz 40MHz 108@54 DFT BPSK CH507000.da53-0

DUT: TFGMEIBBCD1; Type: Telematics device; Serial: EBR25076202 #037(24241)

Communication System: UID 0, 5G NR FDD (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.939$ S/m; $\epsilon_r = 38.273$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(7.77, 7.26, 7.39) @ 2535 MHz; Calibrated: 2025-03-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1595; Calibrated: 2025-01-21
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 2246
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn7 Front 15KHz 40MHz 108@54 DFT BPSK CH507000/Area Scan (251x261x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.495 W/kg

Body/5GNRn7 Front 15KHz 40MHz 108@54 DFT BPSK CH507000/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 16.89 V/m; Power Drift = 0.00 dB

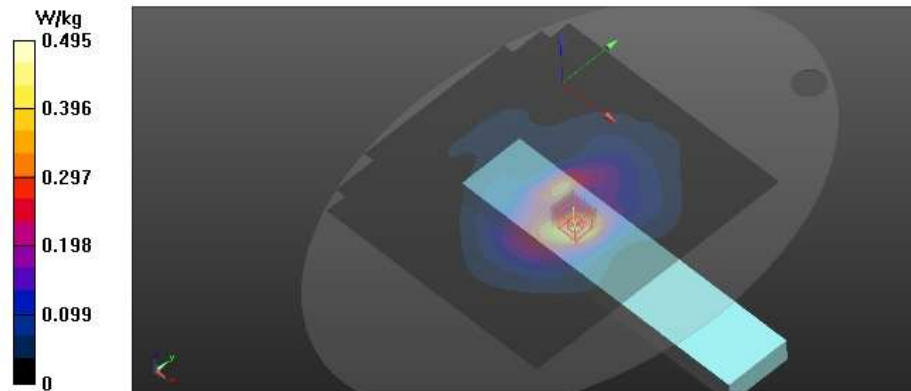
Peak SAR (extrapolated) = 0.618 W/kg

SAR(1 g) = 0.328 W/kg; SAR(10 g) = 0.182 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 51.4%

Maximum value of SAR (measured) = 0.506 W/kg



Appendix B.4 Test Plots for 5GNRn25

Date/Time: 2025-07-24 11:09:42

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn25 Front_15KHz_40MHz_108@54_DFT_BPSK_CH376500.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematics device; Serial: EBR25076202 #037(24241)

Communication System: UID 0, 5G NR FDD (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.374$ S/m; $\epsilon_r = 39.997$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(8.28, 7.74, 7.88) @ 1882.5 MHz; Calibrated: 2025-03-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1595; Calibrated: 2025-01-21
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 2246
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn25 Front_15KHz_40MHz_108@54_DFT_BPSK_CH376500/Area Scan (181x331x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.361 W/kg

Body/5GNRn25 Front_15KHz_40MHz_108@54_DFT_BPSK_CH376500/Zoom Scan (6x5x7)/Cube

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

Reference Value = 17.47 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.427 W/kg

SAR(1 g) = 0.261 W/kg; SAR(10 g) = 0.162 W/kg

Smallest distance from peaks to all points 3 dB below = 27.2 mm

Ratio of SAR at M2 to SAR at M1 = 59.9%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.366 W/kg

