

### Appendix A. Plots of System Verification

The plots for system verification are shown as follows.

## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2023/01/06

### S01 System Check\_H835\_230106

**DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121**

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

Medium: H06T27N5\_0106 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.96$  S/m;  $\epsilon_r = 40.68$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.8 °C ; Liquid Temperature : 21.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7472; ConvF(10.1, 10.1, 10.1) @ 835 MHz; Calibrated: 2022/05/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2022/06/01
- Phantom: Twin-SAM V8.0\_1988; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.688 W/kg

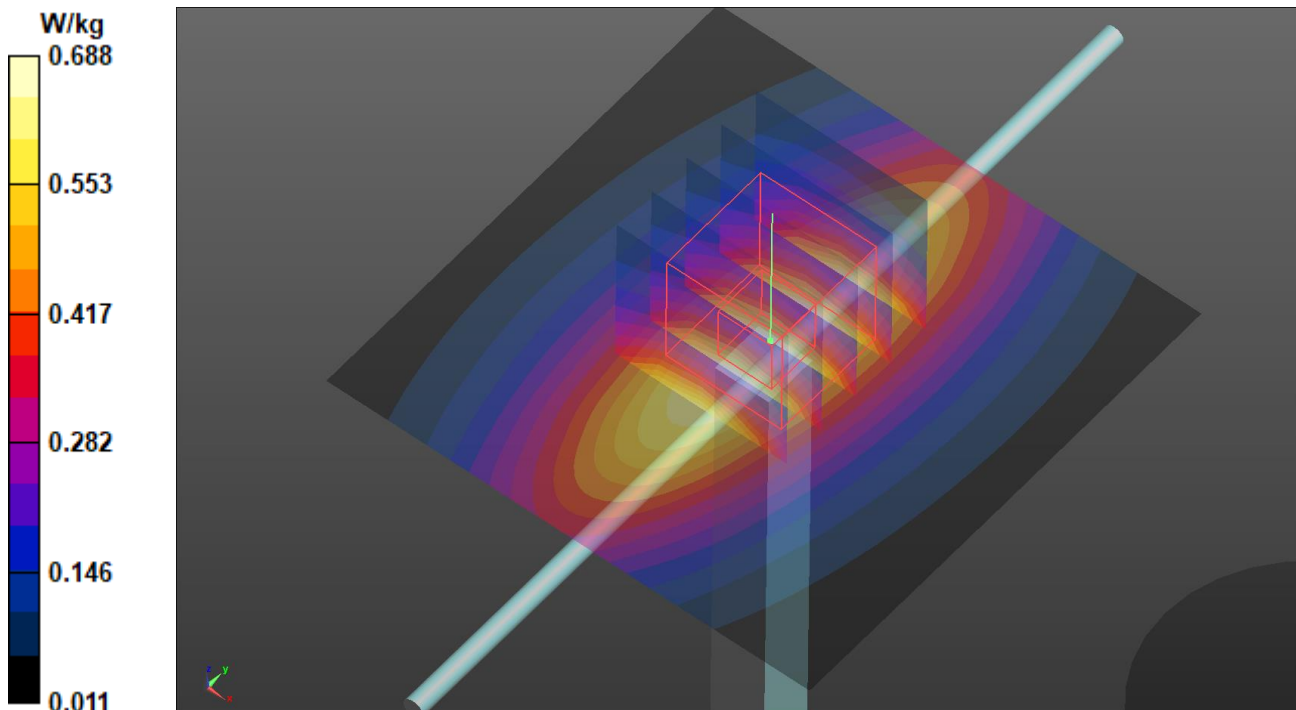
**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.99 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.772 W/kg

**SAR(1 g) = 0.493 W/kg; SAR(10 g) = 0.327 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.687 W/kg



## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2023/01/06

### S02 System Check\_H1900\_230106

**DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

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

Medium: H06T27N5\_0106 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.465$  S/m;  $\epsilon_r = 38.361$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.8 °C ; Liquid Temperature : 21.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7472; ConvF(8.44, 8.44, 8.44) @ 1900 MHz; Calibrated: 2022/05/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2022/06/01
- Phantom: Twin-SAM V8.0\_1988; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.94 W/kg

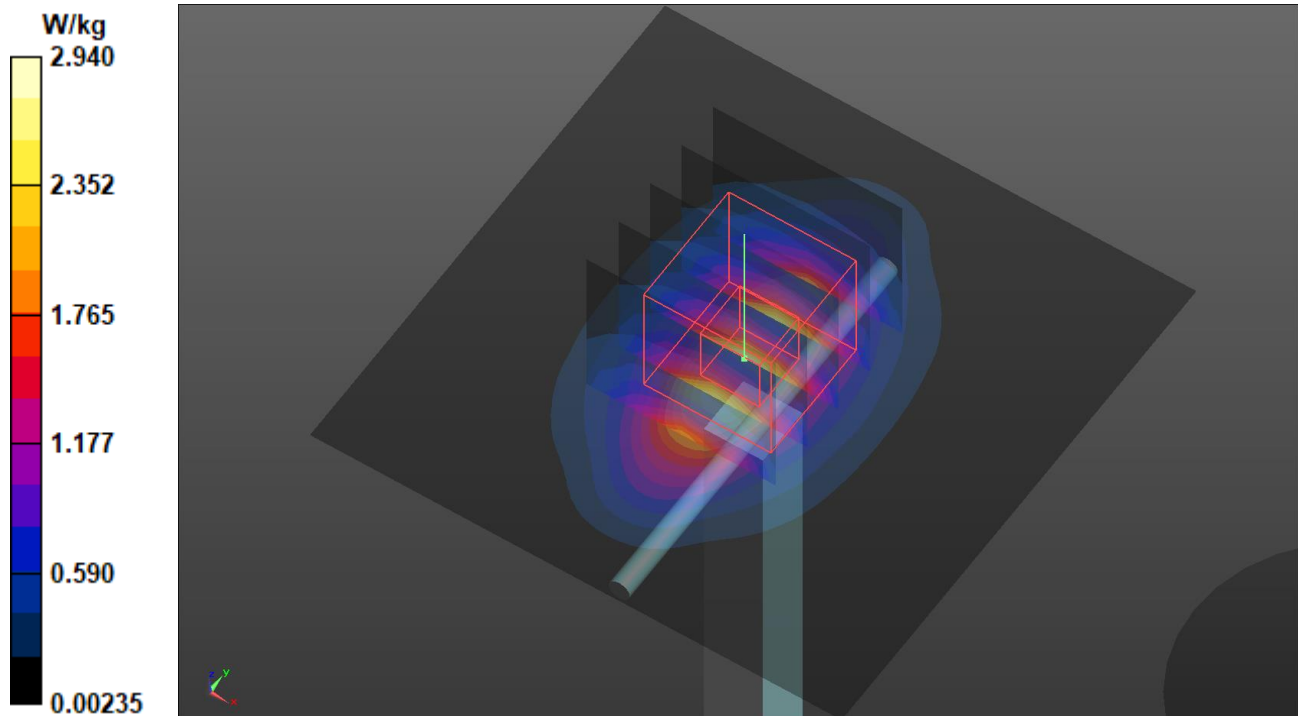
**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.20 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.49 W/kg

**SAR(1 g) = 1.98 W/kg; SAR(10 g) = 1.03 W/kg** (SAR corrected for target medium)

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



## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/24

### S03 System Check\_H1900\_221224

**DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

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

Medium: H06T27N3\_1224 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.453$  S/m;  $\epsilon_r = 37.006$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(8.24, 8.24, 8.24) @ 1900 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.27 W/kg

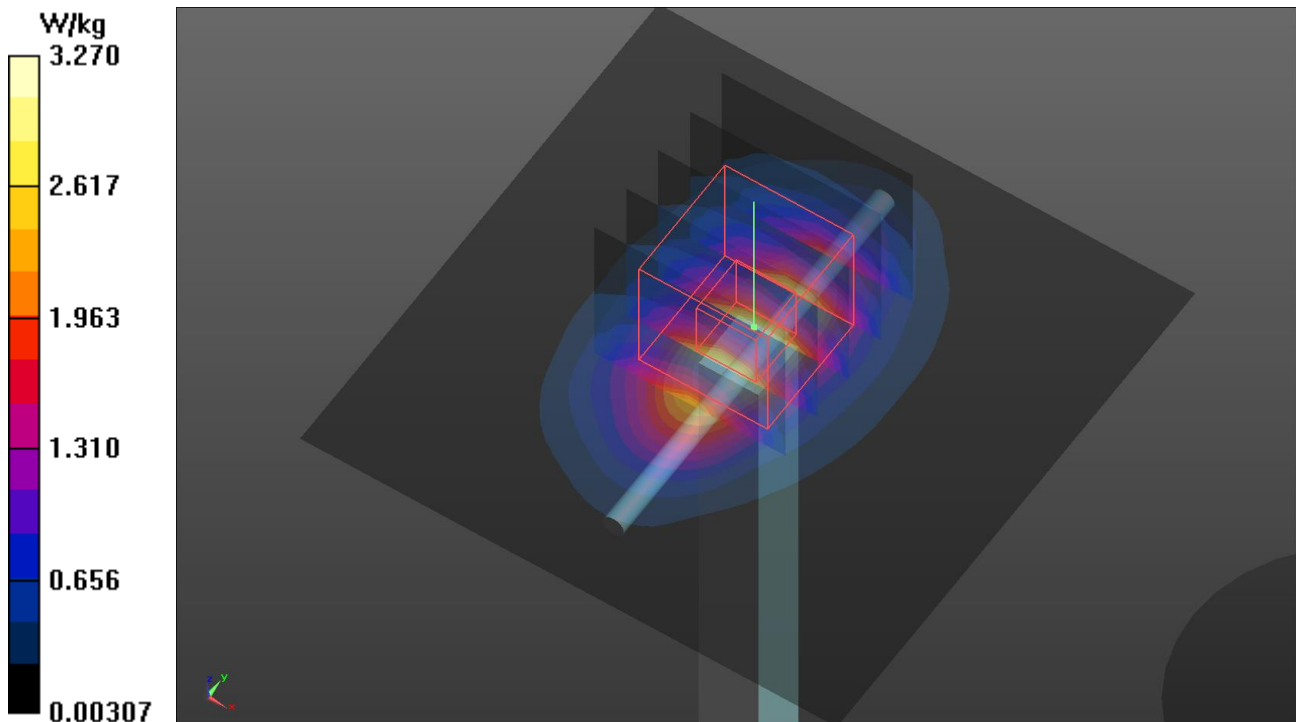
**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.73 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 4.00 W/kg

**SAR(1 g) = 2.02 W/kg; SAR(10 g) = 1.05 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.31 W/kg



## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/24

### S04 System Check\_H1750\_221224

**DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055**

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

Medium: H06T27N3\_1224 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.369$  S/m;  $\epsilon_r = 37.224$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(8.57, 8.57, 8.57) @ 1750 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.81 W/kg

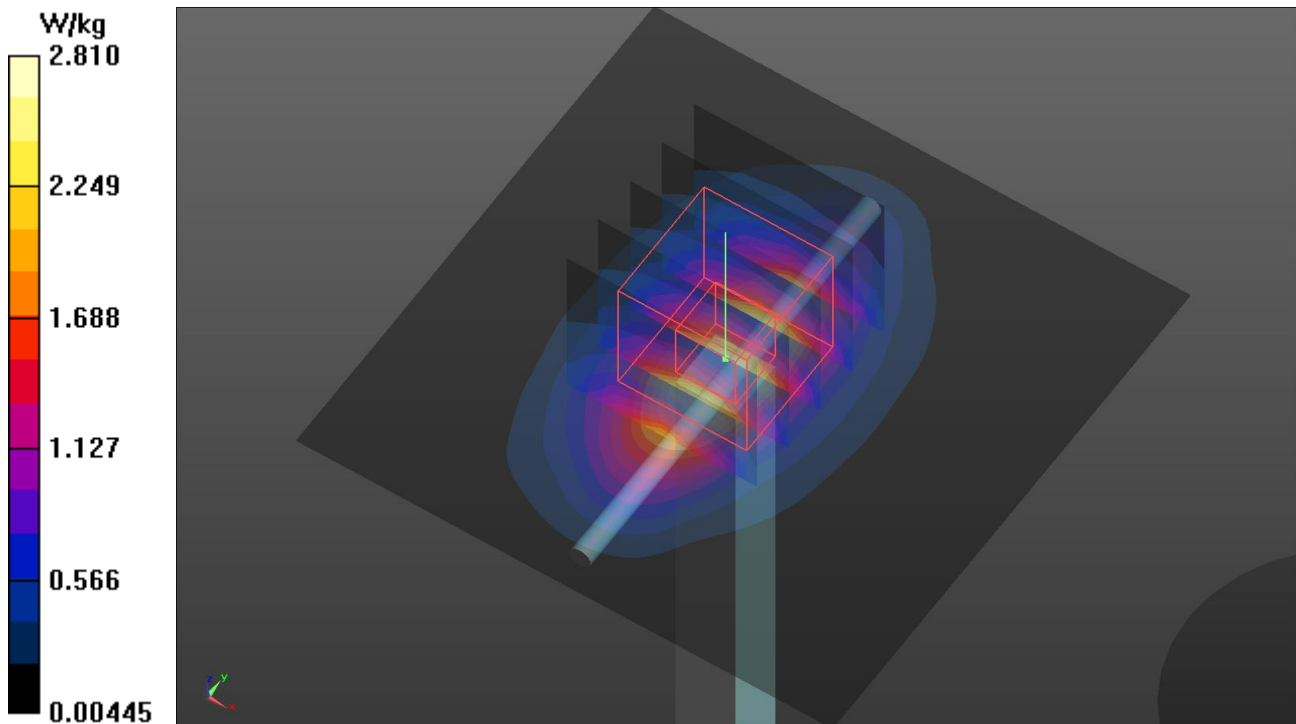
**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.03 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 3.37 W/kg

**SAR(1 g) = 1.81 W/kg; SAR(10 g) = 0.961 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.84 W/kg



## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/25

### S05 System Check\_H835\_221225

**DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121**

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

Medium: H06T27N3\_1225 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.895$  S/m;  $\epsilon_r = 39.906$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(10.5, 10.5, 10.5) @ 835 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.602 W/kg

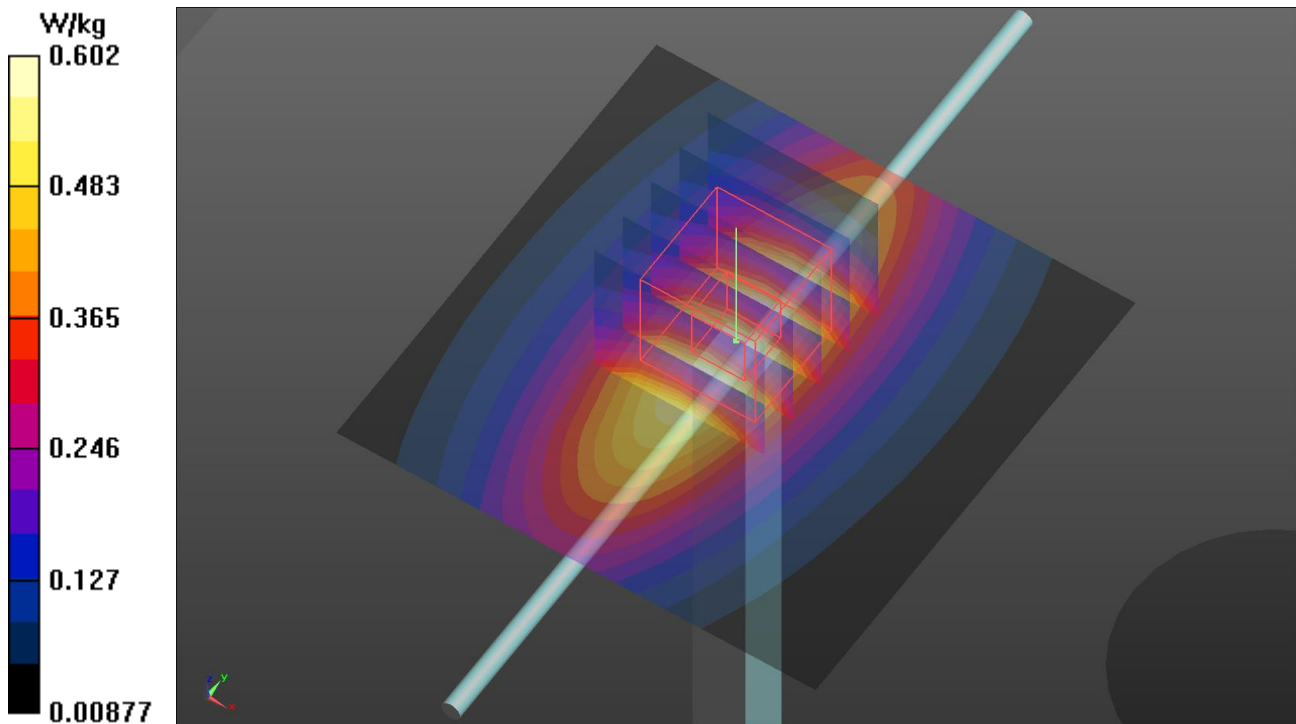
**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 26.75 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.686 W/kg

**SAR(1 g) = 0.450 W/kg; SAR(10 g) = 0.293 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.605 W/kg



## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/24

### S06 System Check\_H1900\_221224

**DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

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

Medium: H06T27N3\_1224 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.453$  S/m;  $\epsilon_r = 37.006$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(8.24, 8.24, 8.24) @ 1900 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.27 W/kg

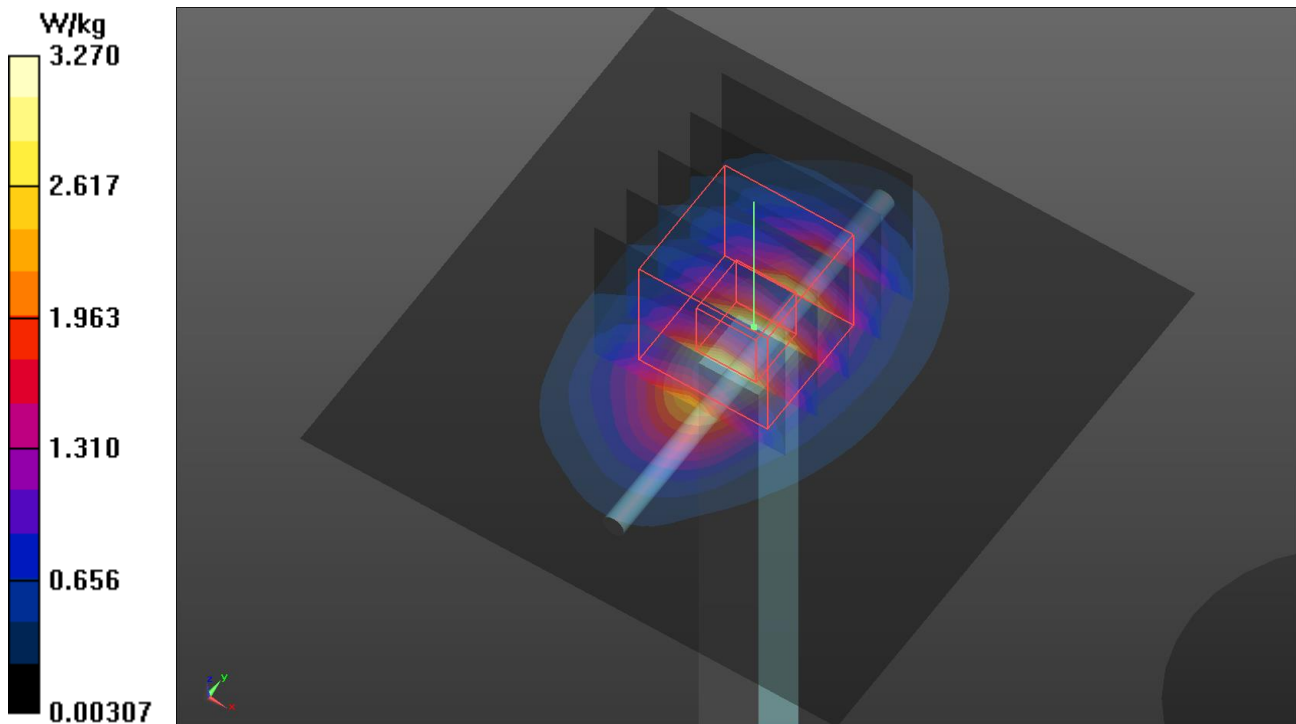
**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.73 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 4.00 W/kg

**SAR(1 g) = 2.02 W/kg; SAR(10 g) = 1.05 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.31 W/kg





## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/24

### S07 System Check\_H1750\_221224

**DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055**

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

Medium: H06T27N3\_1224 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.369$  S/m;  $\epsilon_r = 37.224$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(8.57, 8.57, 8.57) @ 1750 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.81 W/kg

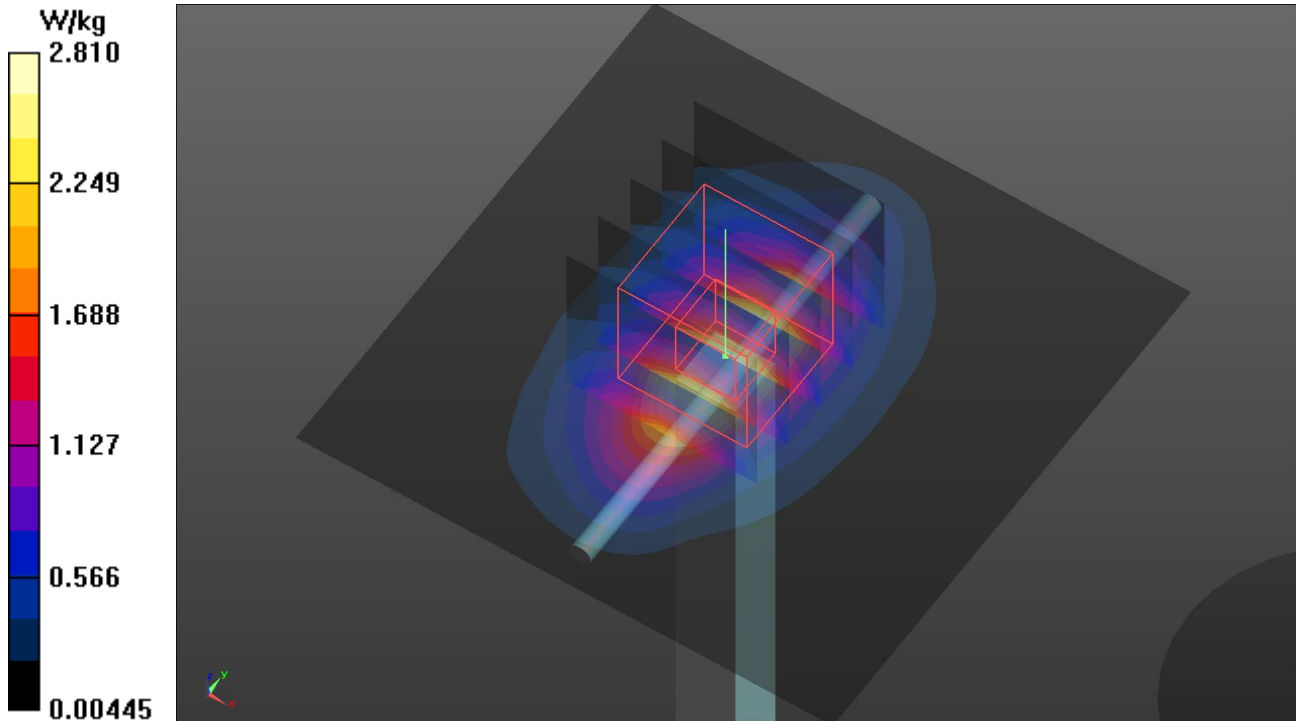
**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.03 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 3.37 W/kg

**SAR(1 g) = 1.81 W/kg; SAR(10 g) = 0.961 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.84 W/kg





## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/25

### S08 System Check\_H835\_221225

**DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121**

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

Medium: H06T27N3\_1225 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.895$  S/m;  $\epsilon_r = 39.906$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(10.5, 10.5, 10.5) @ 835 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.602 W/kg

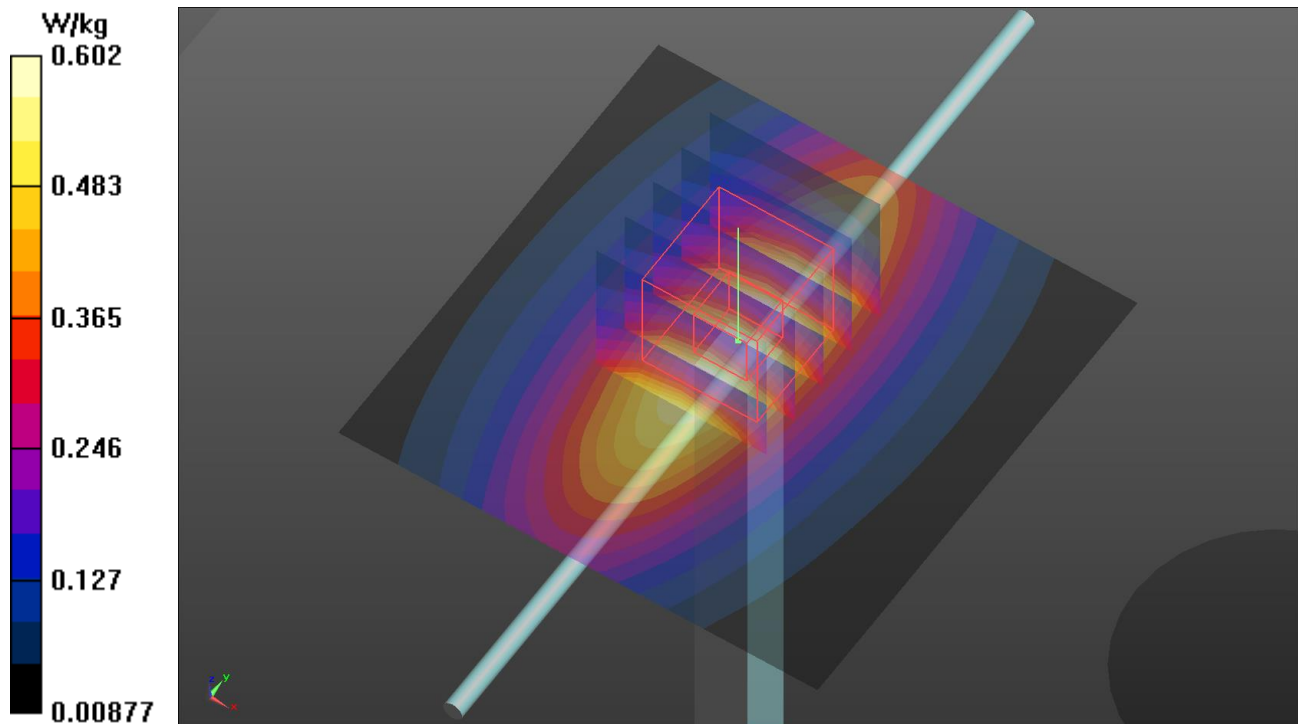
**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.75 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.686 W/kg

**SAR(1 g) = 0.450 W/kg; SAR(10 g) = 0.293 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.605 W/kg



## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/23

### S09 System Check\_H2600\_221223

**DUT: Dipole 2600 MHz; Type: D2600V2; SN: 1020**

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

Medium: H06T27N3\_1223 Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.948$  S/m;  $\epsilon_r = 41.073$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(7.52, 7.52, 7.52) @ 2600 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.48 W/kg

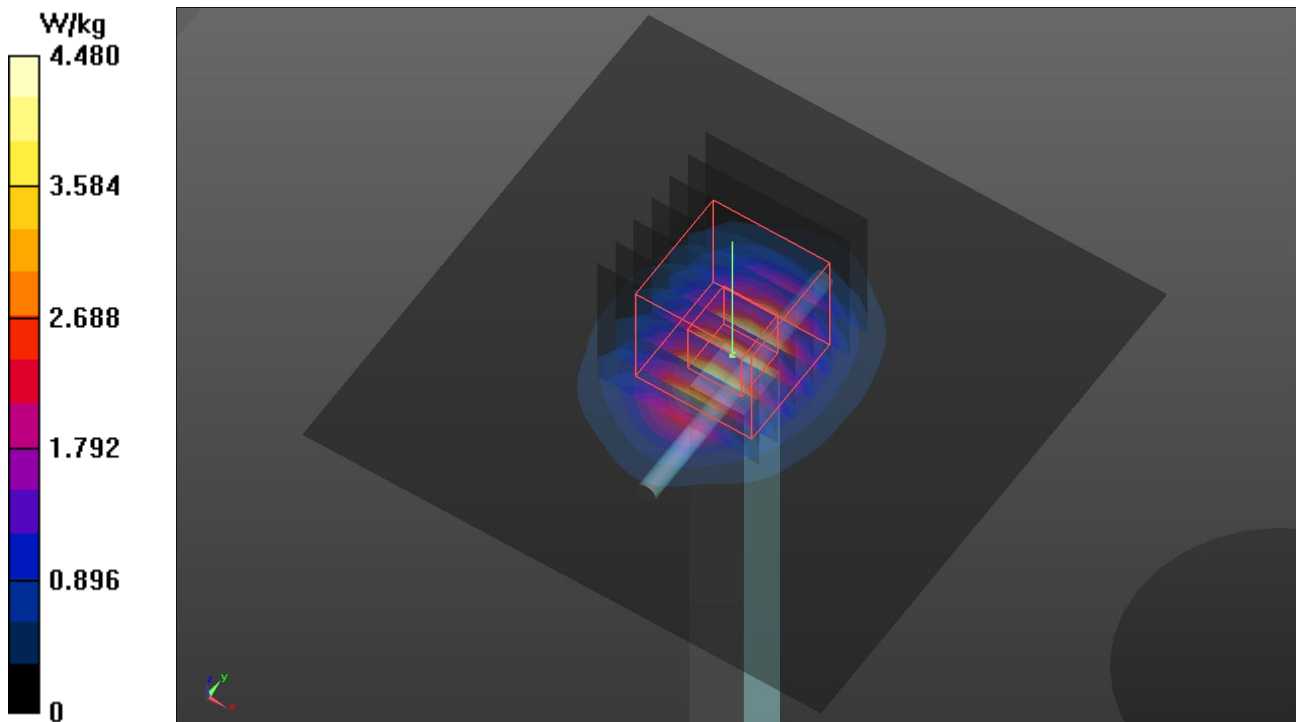
**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.27 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 5.59 W/kg

**SAR(1 g) = 2.67 W/kg; SAR(10 g) = 1.19 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.49 W/kg



## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/23

### S10 System Check\_H750\_221223

**DUT: Dipole 750 MHz; Type: D750V3; SN: 1013**

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

Medium: H06T27N3\_1223 Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.917$  S/m;  $\epsilon_r = 44.118$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(10.74, 10.74, 10.74) @ 750 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.534 W/kg

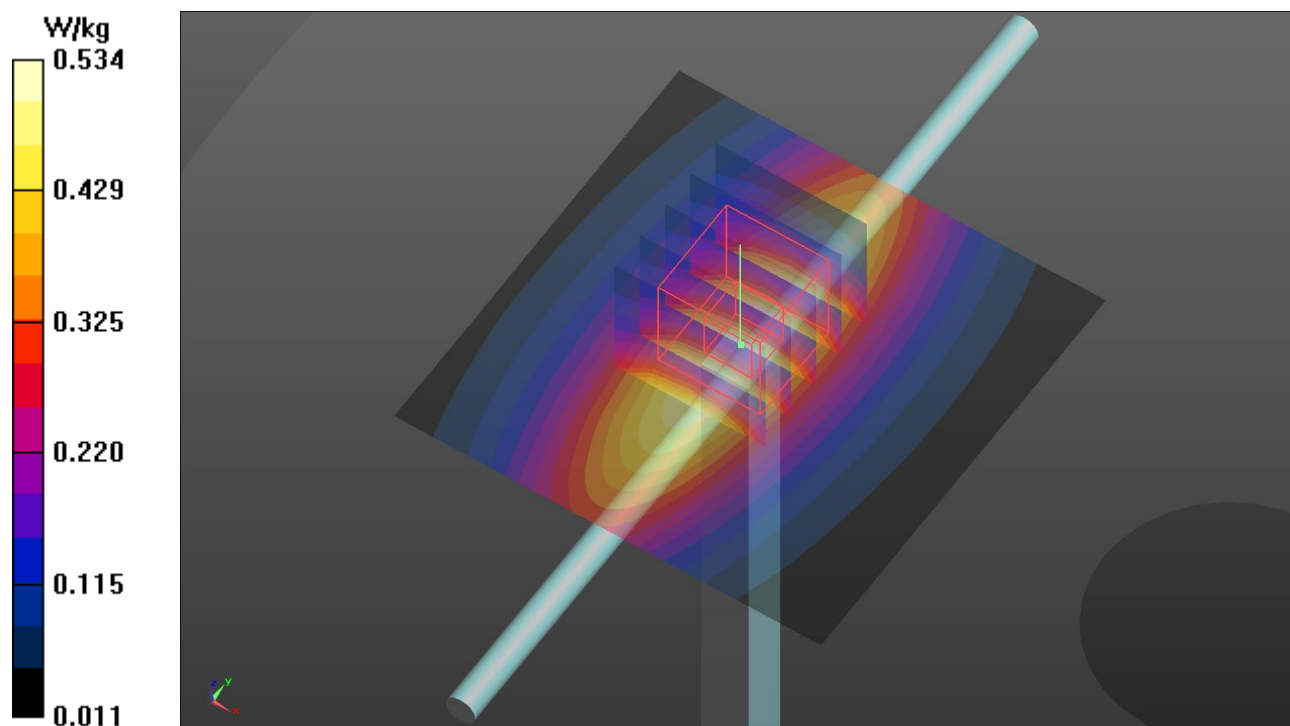
**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.03 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.614 W/kg

**SAR(1 g) = 0.398 W/kg; SAR(10 g) = 0.261 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.542 W/kg



## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/23

### S11 System Check\_H750\_221223

**DUT: Dipole 750 MHz; Type: D750V3; SN: 1013**

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

Medium: H06T27N3\_1223 Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.917$  S/m;  $\epsilon_r = 44.118$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(10.74, 10.74, 10.74) @ 750 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.534 W/kg

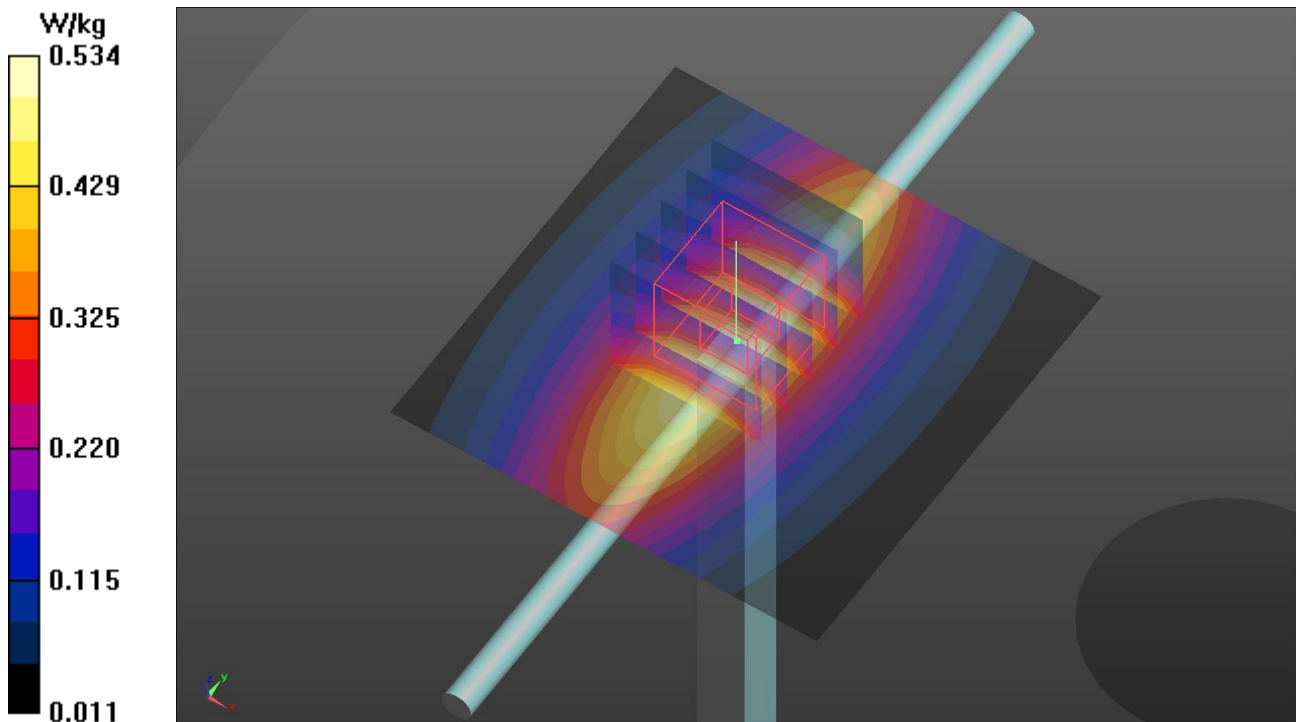
**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.03 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.614 W/kg

**SAR(1 g) = 0.398 W/kg; SAR(10 g) = 0.261 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.542 W/kg



## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/23

### S12 System Check\_H750\_221223

**DUT: Dipole 750 MHz; Type: D750V3; SN: 1013**

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

Medium: H06T27N3\_1223 Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.917$  S/m;  $\epsilon_r = 44.118$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(10.74, 10.74, 10.74) @ 750 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.534 W/kg

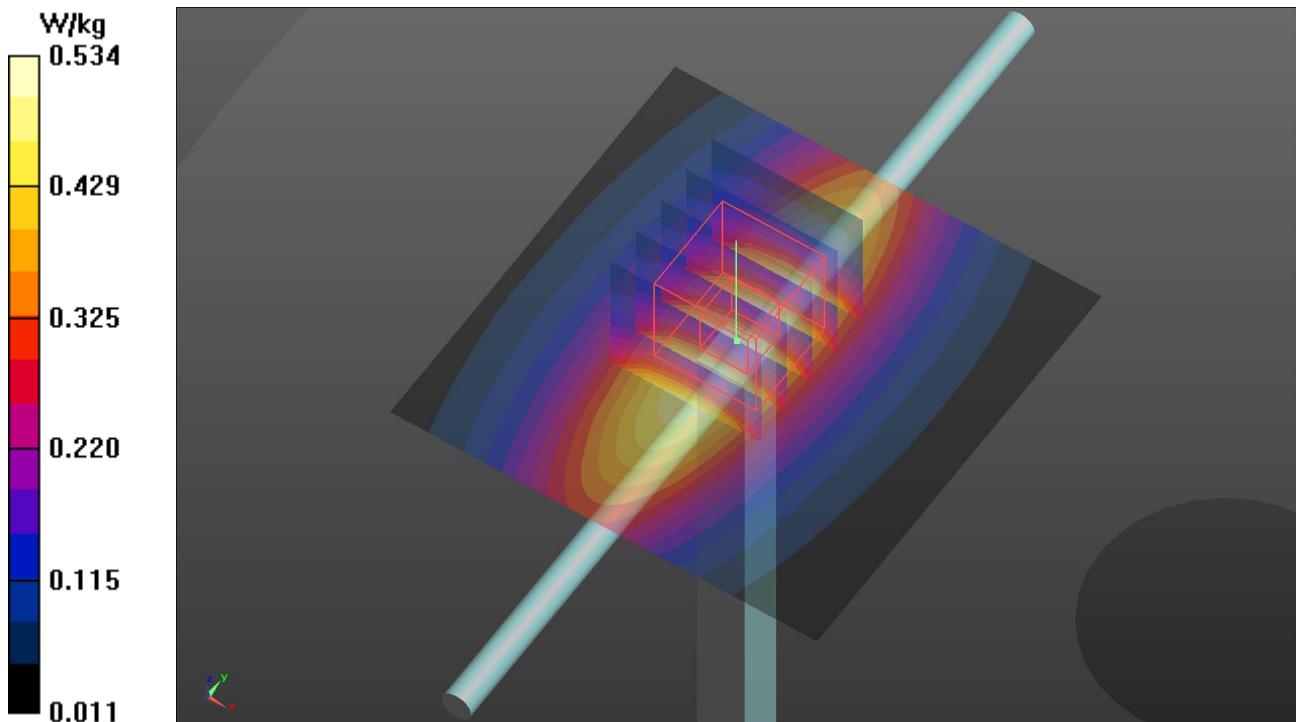
**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.03 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.614 W/kg

**SAR(1 g) = 0.398 W/kg; SAR(10 g) = 0.261 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.542 W/kg



## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/24

### S13 System Check\_H1900\_221224

**DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

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

Medium: H06T27N3\_1224 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.453$  S/m;  $\epsilon_r = 37.006$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(8.24, 8.24, 8.24) @ 1900 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.27 W/kg

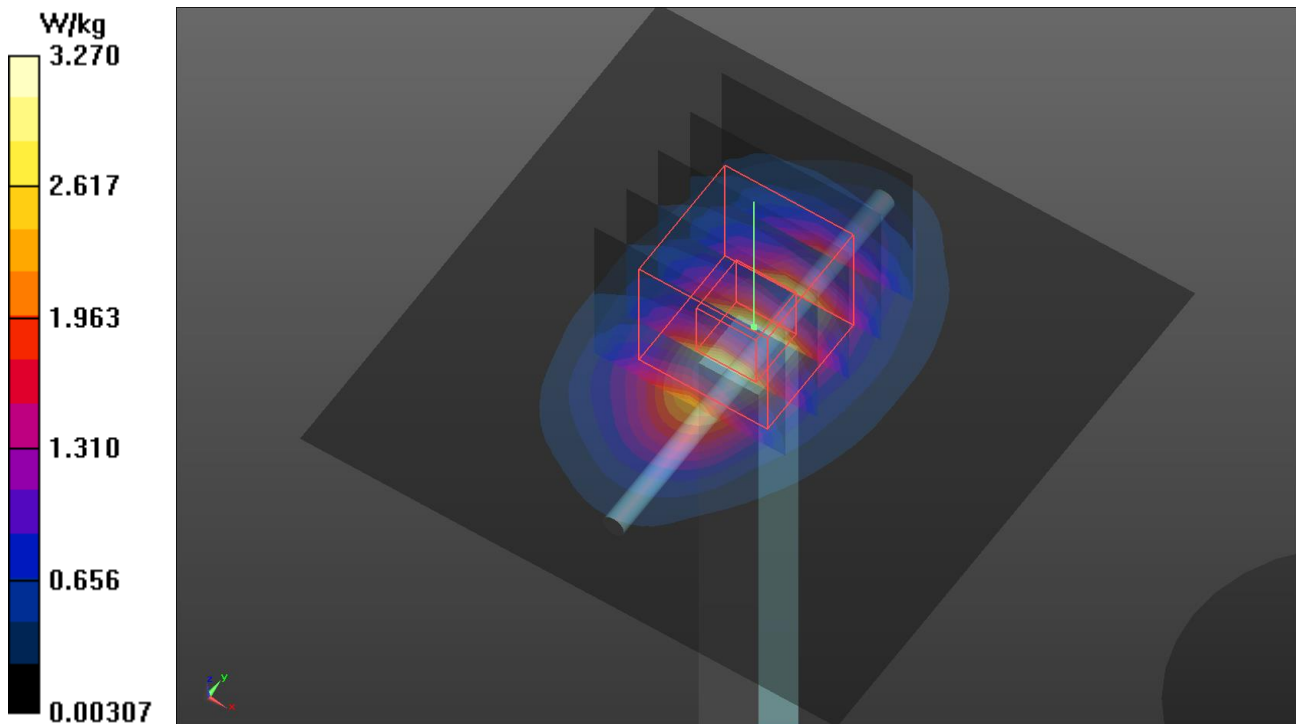
**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.73 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 4.00 W/kg

**SAR(1 g) = 2.02 W/kg; SAR(10 g) = 1.05 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.31 W/kg





## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab  
S14 System Check\_H835\_221225

Date: 2022/12/25

**DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121**

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

Medium: H06T27N3\_1225 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.895$  S/m;  $\epsilon_r = 39.906$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(10.5, 10.5, 10.5) @ 835 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.602 W/kg

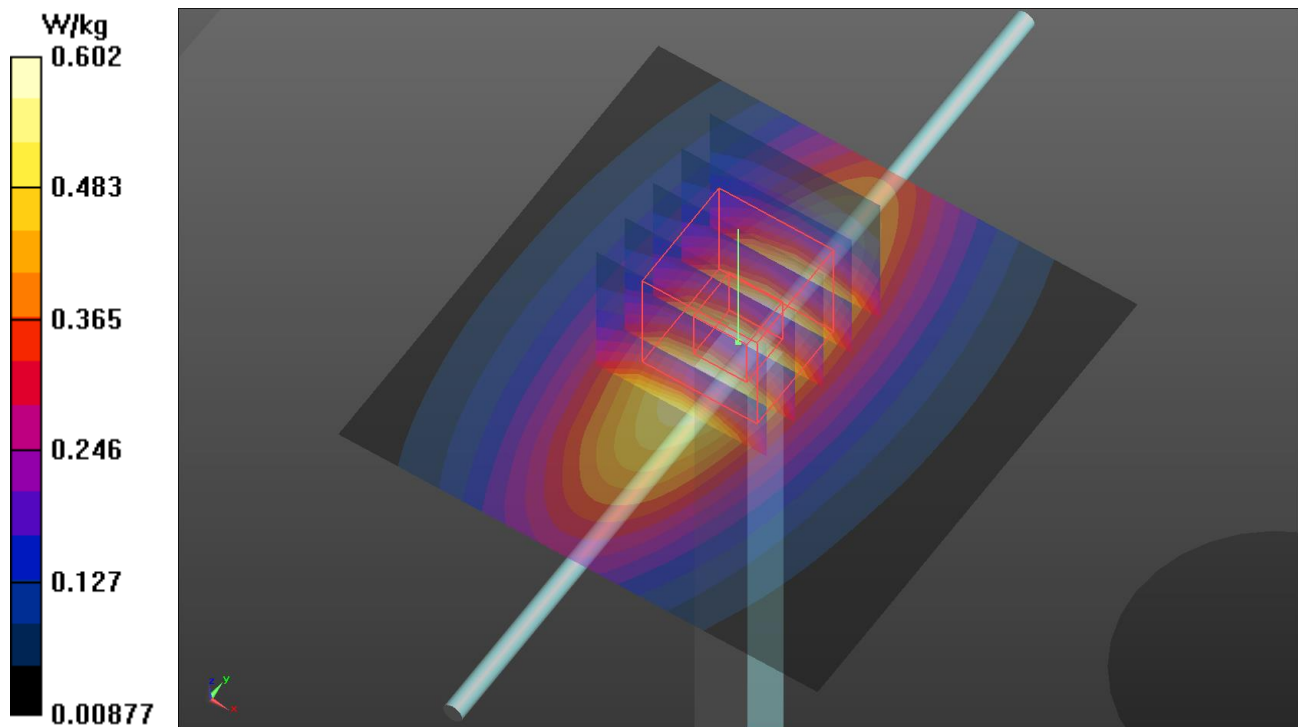
**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.75 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.686 W/kg

**SAR(1 g) = 0.450 W/kg; SAR(10 g) = 0.293 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.605 W/kg





## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/24

### S16 System Check\_H1750\_221224

**DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055**

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

Medium: H06T27N3\_1224 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.369$  S/m;  $\epsilon_r = 37.224$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(8.57, 8.57, 8.57) @ 1750 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=50mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.81 W/kg

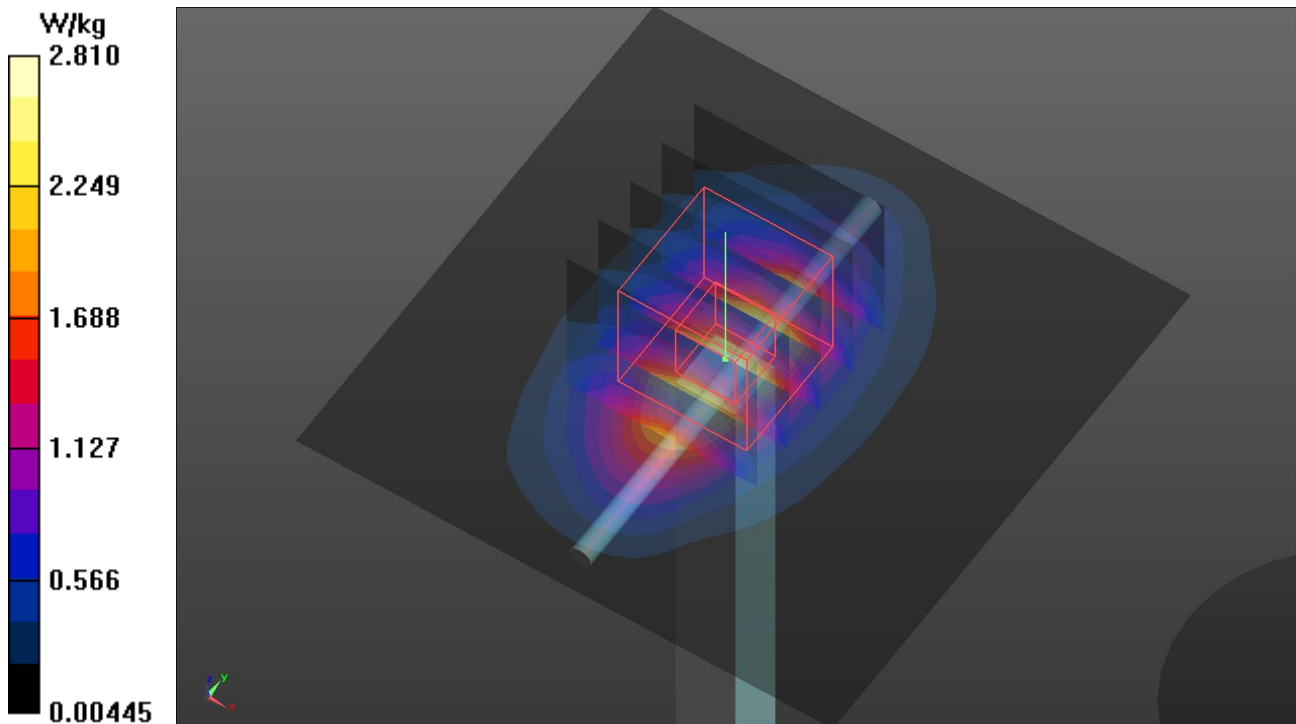
**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.03 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 3.37 W/kg

**SAR(1 g) = 1.81 W/kg; SAR(10 g) = 0.961 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.84 W/kg



## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2023/01/17

### S17 System Check\_H2450\_230117

**DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737**

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

Medium: H06T27N7\_0117 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.836$  S/m;  $\epsilon_r = 40.292$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.4 °C ; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7707; ConvF(8.13, 8.13, 8.13) @ 2450 MHz; Calibrated: 2022/02/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1590; Calibrated: 2022/09/22
- Phantom: Twin SAM Phantom\_1823; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Pin=50mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.21 W/kg

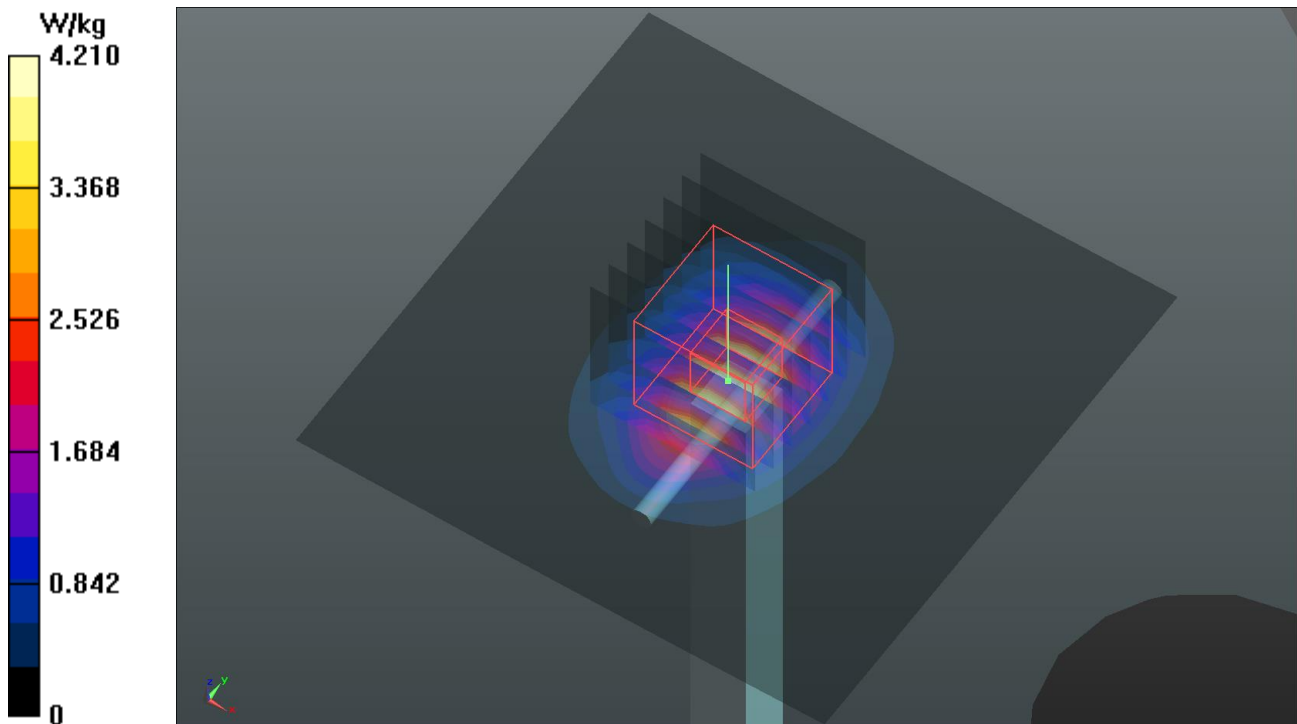
**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.93 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 5.27 W/kg

**SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.16 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.21 W/kg



## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2023/02/17

### S18 System Check\_H5250\_230217

**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

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

Medium: H51T72N3\_0217 Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.563$  S/m;  $\epsilon_r = 36.589$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.7 °C ; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(5.54, 5.54, 5.54) @ 5250 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1823; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Pin=50mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 9.64 W/kg

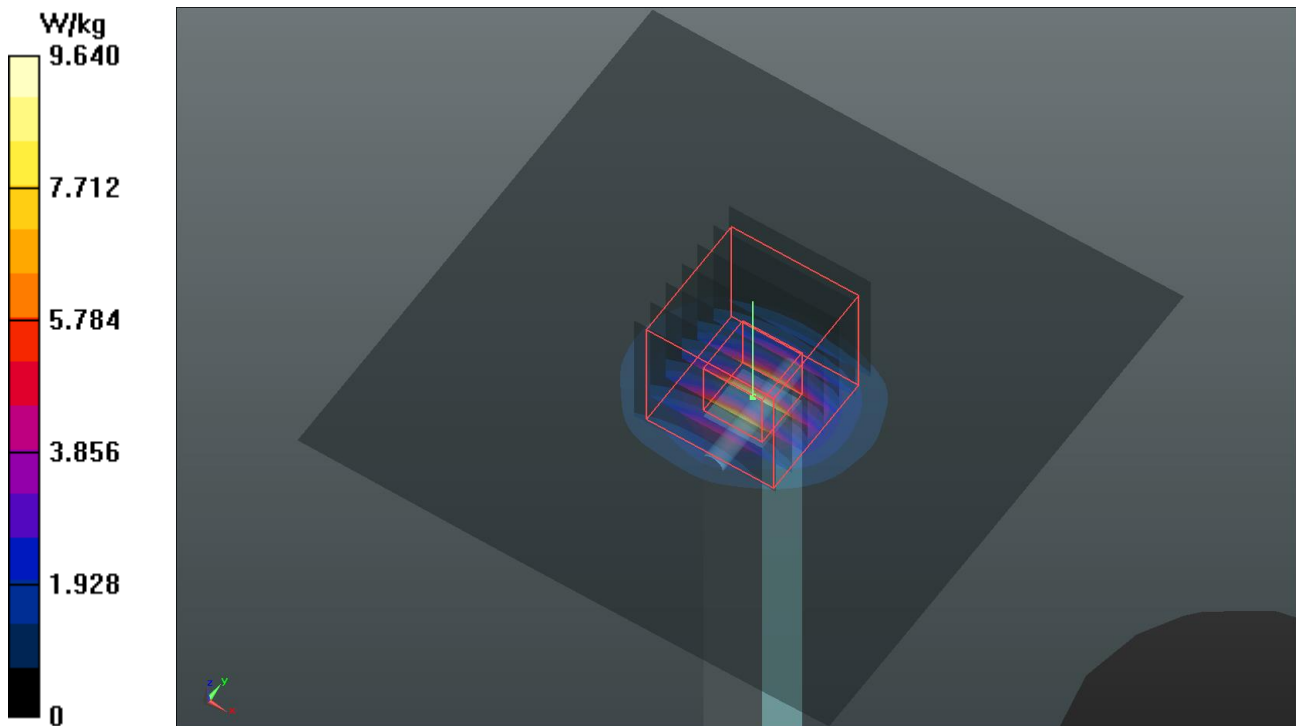
**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 44.27 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 15.8 W/kg

**SAR(1 g) = 3.89 W/kg; SAR(10 g) = 1.11 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 9.96 W/kg



## Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2023/01/17

### S19 System Check\_H2450\_230117

**DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737**

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

Medium: H06T27N7\_0117 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.836$  S/m;  $\epsilon_r = 40.292$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.4 °C ; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7707; ConvF(8.13, 8.13, 8.13) @ 2450 MHz; Calibrated: 2022/02/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1590; Calibrated: 2022/09/22
- Phantom: Twin SAM Phantom\_1823; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Pin=50mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.21 W/kg

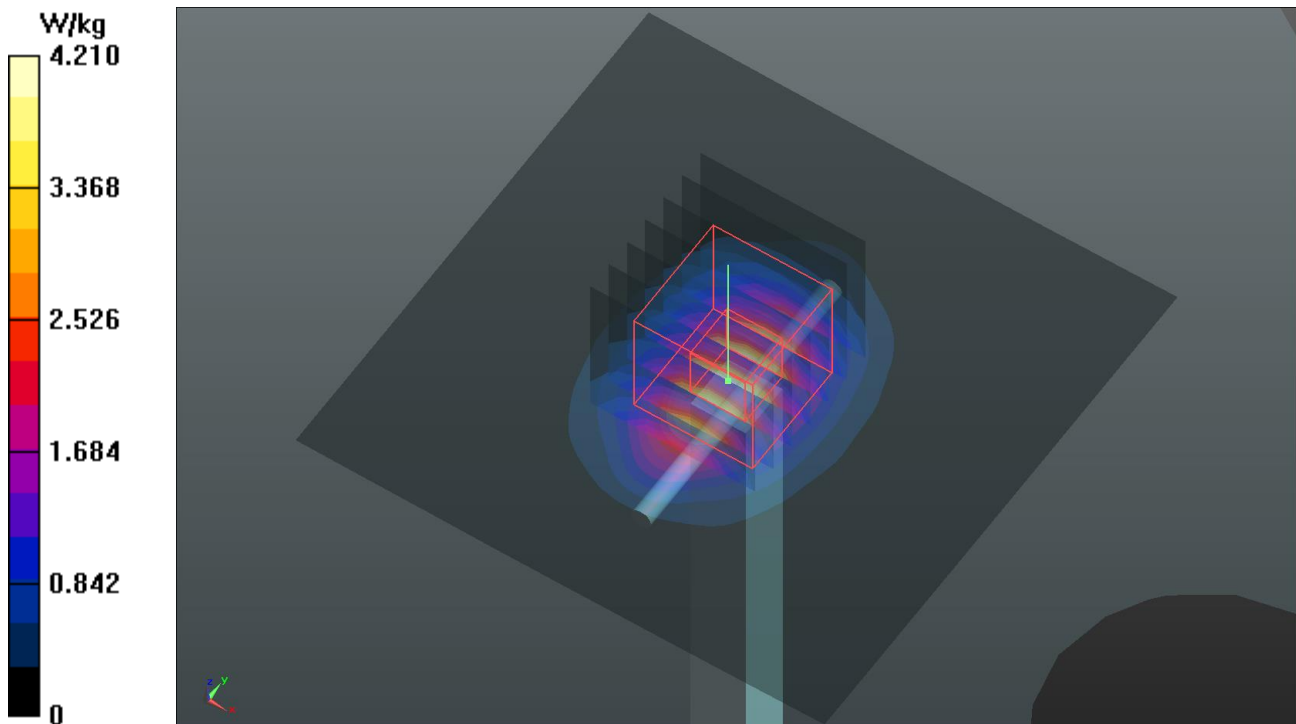
**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.93 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 5.27 W/kg

**SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.16 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.21 W/kg



### Appendix B. Plots of Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination are shown as follows.

## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2023/01/06

**P01 GSM850\_GPRS10\_Rear Face\_0mm\_Ch251\_Ant 0**

**DUT: BBGM-WTW-P22110832**

Communication System: UID 10024 - DAC, GPRS-FDD (TDMA, GMSK, TN 0-1); Frequency: 848.8 MHz; Duty Cycle: 1:4.53

Medium: H06T27N5\_0106 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.966$  S/m;  $\epsilon_r = 40.618$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.8 °C ; Liquid Temperature : 21.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7472; ConvF(10.1, 10.1, 10.1) @ 848.8 MHz; Calibrated: 2022/05/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2022/06/01
- Phantom: Twin-SAM V8.0\_1988; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.76 W/kg

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

Reference Value = 52.74 V/m; Power Drift = -0.04 dB

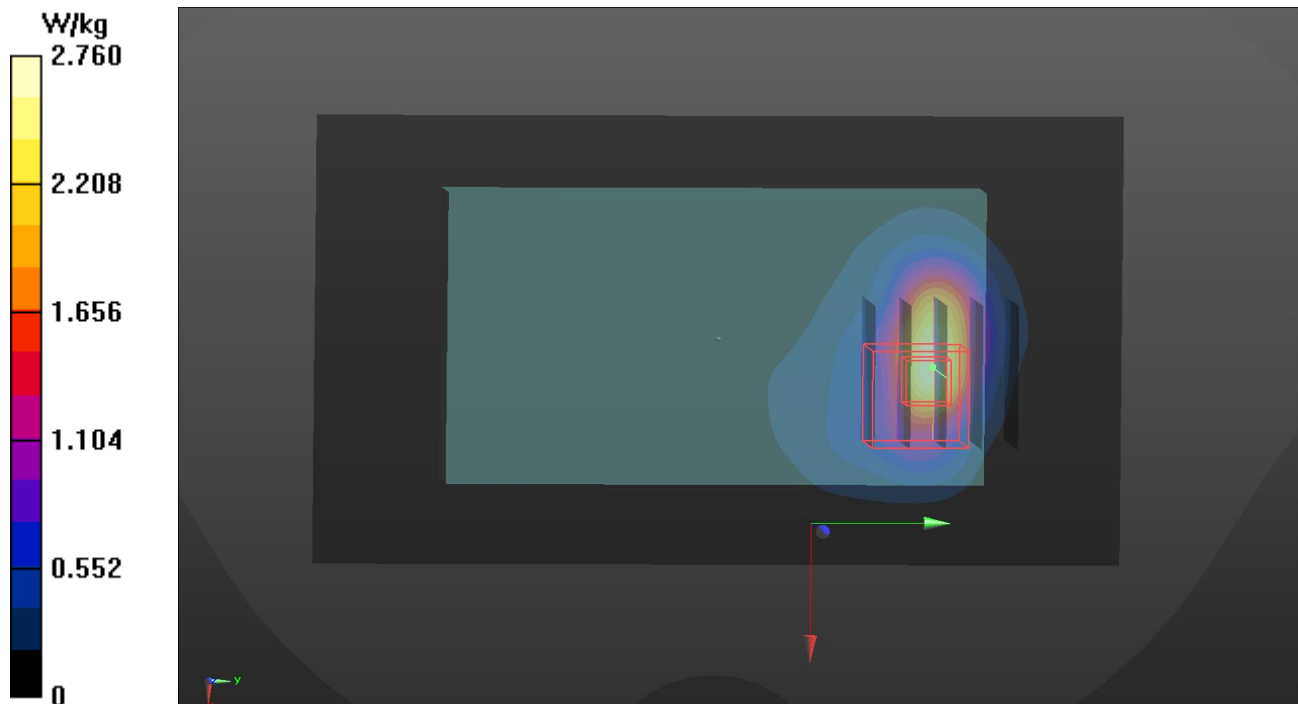
Peak SAR (extrapolated) = 5.04 W/kg

**SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.521 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 35.1%

Maximum value of SAR (measured) = 3.00 W/kg



## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2023/01/06

### P02 GSM1900\_GPRS12\_Top Curve Side\_0mm\_Ch810\_Ant 0

DUT: BBGM-WTW-P22110832

Communication System: UID 10028 - DAC, GPRS-FDD (TDMA, GMSK, TN 0-1-2-3); Frequency: 1909.8 MHz; Duty Cycle: 1:2.27

Medium: H06T27N5\_0106 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.471$  S/m;  $\epsilon_r = 38.355$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.8 °C ; Liquid Temperature : 21.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7472; ConvF(8.44, 8.44, 8.44) @ 1909.8 MHz; Calibrated: 2022/05/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2022/06/01
- Phantom: Twin-SAM V8.0\_1988; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.20 W/kg

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

Reference Value = 42.76 V/m; Power Drift = 0.19 dB

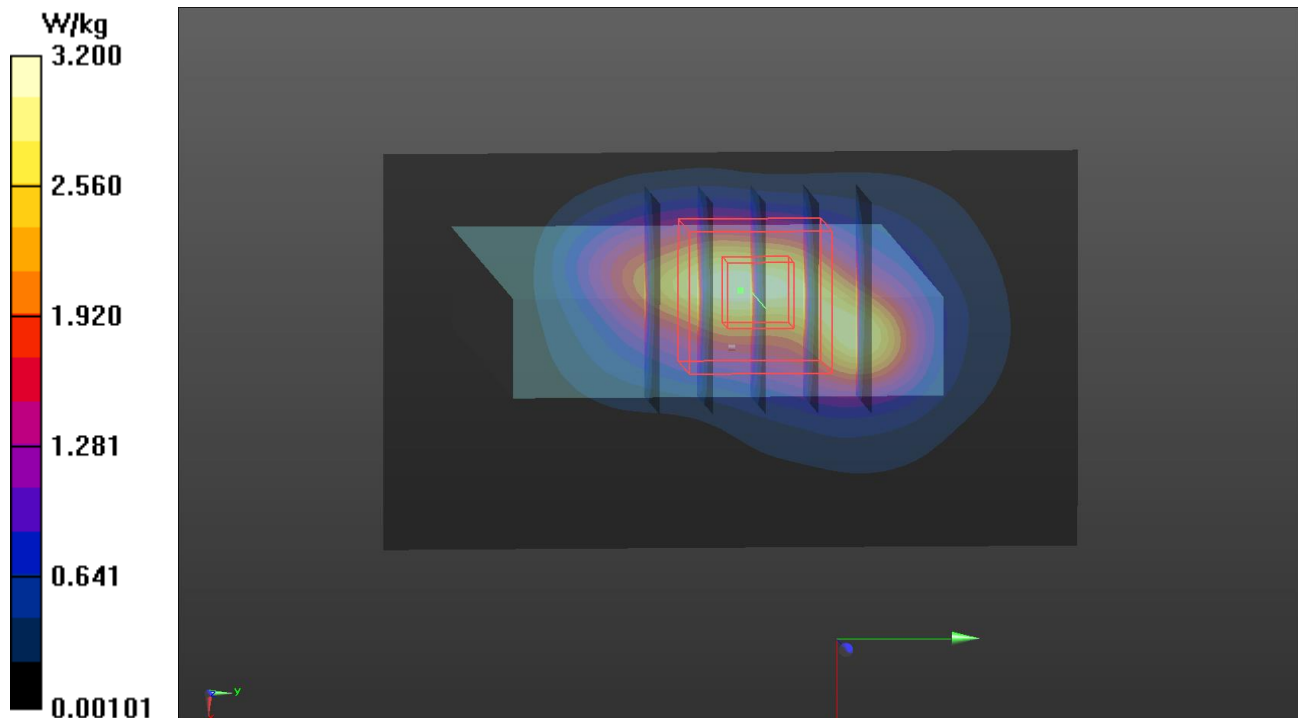
Peak SAR (extrapolated) = 5.66 W/kg

**SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.12 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.1 mm

Ratio of SAR at M2 to SAR at M1 = 49%

Maximum value of SAR (measured) = 3.69 W/kg





## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/24

### P03 WCDMA II\_RMC12.2K\_Top Curve Side\_0mm\_Ch9400\_Ant 0

**DUT: BBGM-WTW-P22110832**

Communication System: UID 10011 - CAC, UMTS-FDD (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:1.95  
 Medium: H06T27N3\_1224 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.442$  S/m;  $\epsilon_r = 37.036$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Ambient Temperature : 22.3 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(8.24, 8.24, 8.24) @ 1880 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Maximum value of SAR (interpolated) = 4.91 W/kg

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

Reference Value = 47.17 V/m; Power Drift = -0.07 dB

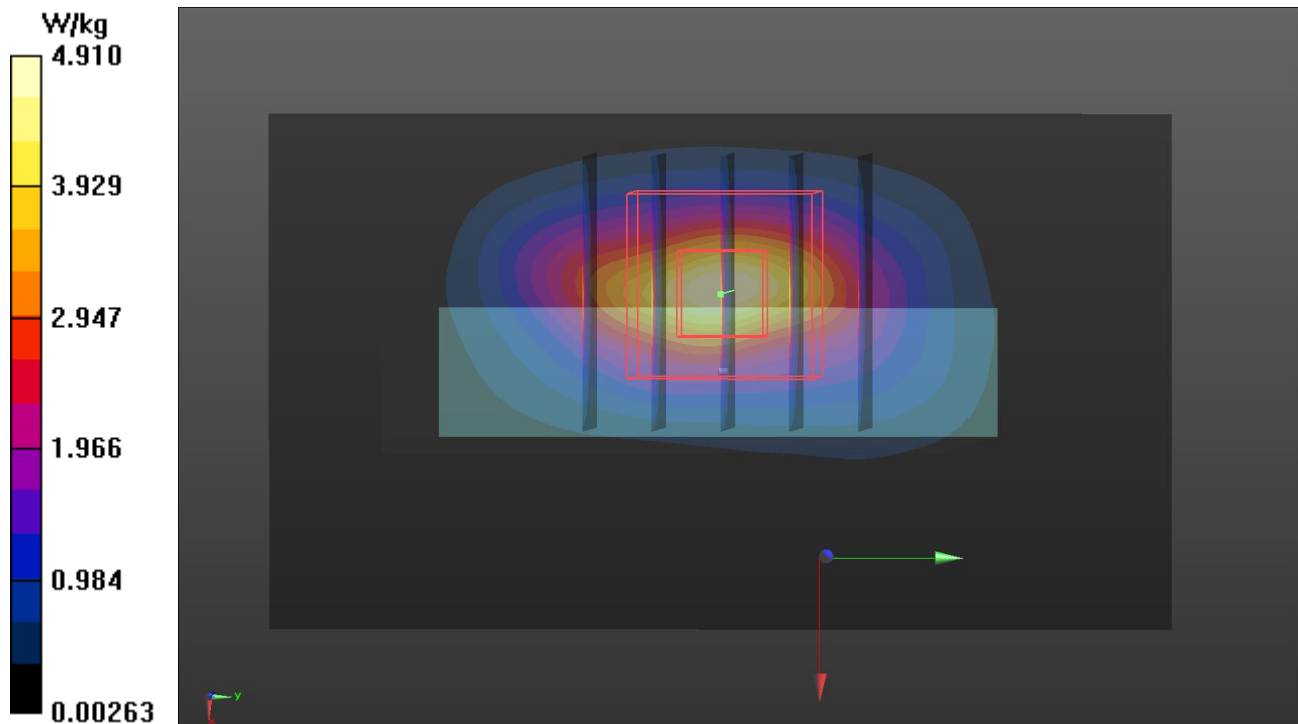
Peak SAR (extrapolated) = 6.75 W/kg

**SAR(1 g) = 3.17 W/kg; SAR(10 g) = 1.45 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.6 mm

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

Maximum value of SAR (measured) = 5.48 W/kg



## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/24

**P04 WCDMA IV\_RMC12.2K\_Top Curve Side\_0mm\_Ch1312\_Ant 0**

**DUT: BBGM-WTW-P22110832**

Communication System: UID 10011 - CAC, UMTS-FDD (WCDMA); Frequency: 1712.4 MHz; Duty Cycle: 1:1.95  
 Medium: H06T27N3\_1224 Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.35$  S/m;  $\epsilon_r = 37.267$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(8.57, 8.57, 8.57) @ 1712.4 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.93 W/kg

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

Reference Value = 45.01 V/m; Power Drift = -0.11 dB

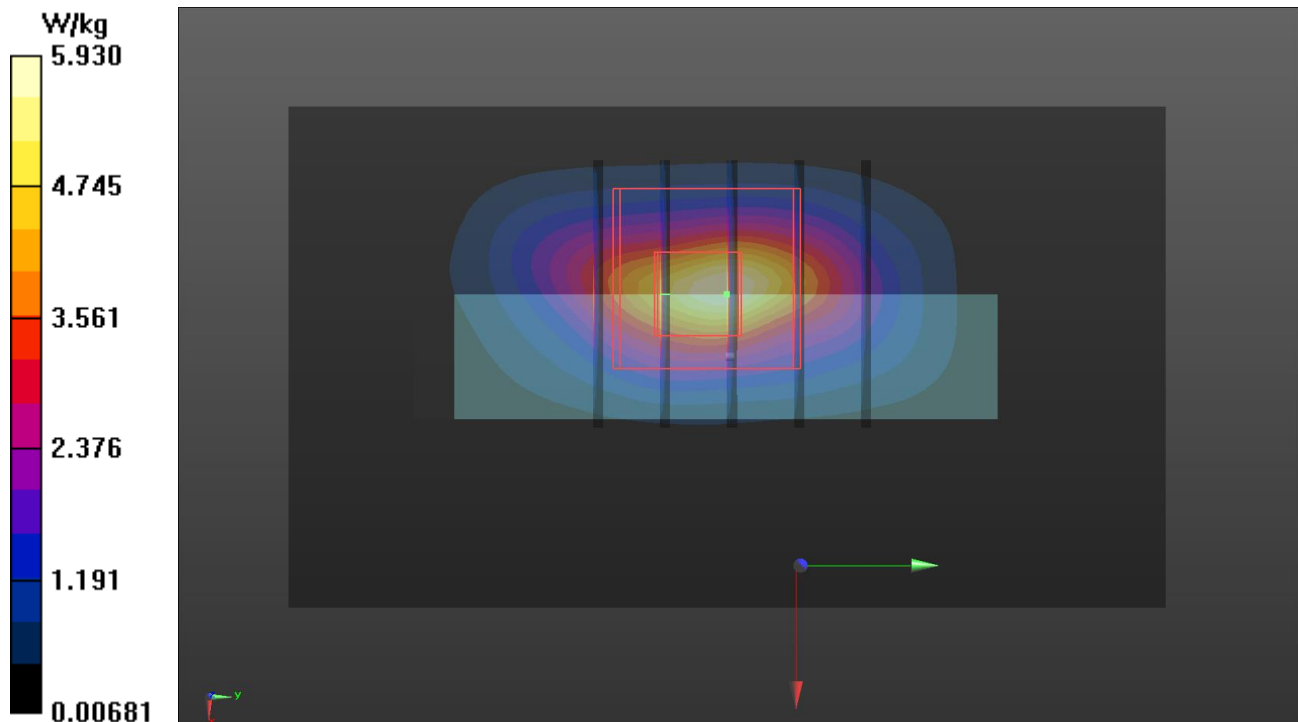
Peak SAR (extrapolated) = 8.98 W/kg

**SAR(1 g) = 3.94 W/kg; SAR(10 g) = 1.67 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 44.7%

Maximum value of SAR (measured) = 7.12 W/kg



## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/25

**P05 WCDMA V\_RMC12.2K\_Rear Face\_0mm\_Ch4132\_Ant 0**

**DUT: BBGM-WTW-P22110832**

Communication System: UID 10011 - CAC, UMTS-FDD (WCDMA); Frequency: 826.4 MHz; Duty Cycle: 1:1.95  
 Medium: H06T27N3\_1225 Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.892$  S/m;  $\epsilon_r = 39.937$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(10.5, 10.5, 10.5) @ 826.4 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Maximum value of SAR (interpolated) = 3.72 W/kg

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

Reference Value = 63.93 V/m; Power Drift = 0.02 dB

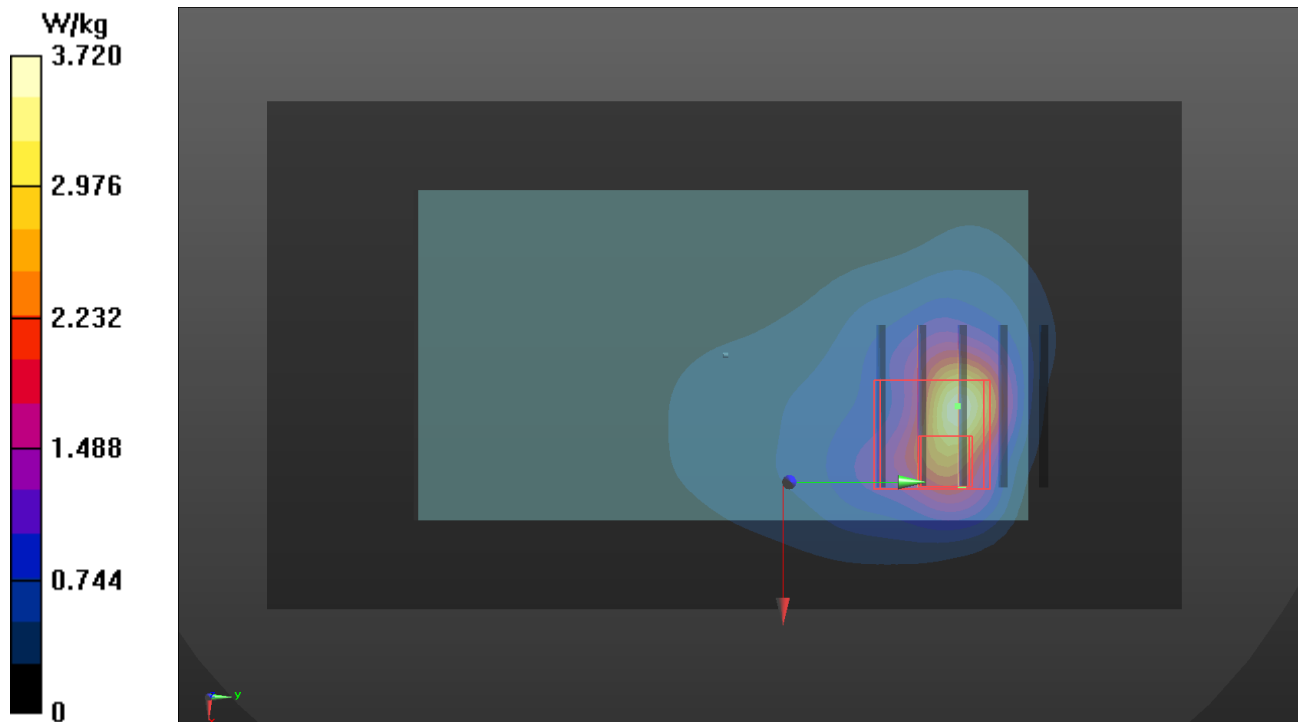
Peak SAR (extrapolated) = 12.7 W/kg

**SAR(1 g) = 1.82 W/kg; SAR(10 g) = 0.801 W/kg** (SAR corrected for target medium)

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

Ratio of SAR at M2 to SAR at M1 = 36.9%

Maximum value of SAR (measured) = 6.37 W/kg



## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/24

**P06 LTE 2\_QPSK20M\_Top Curve Side\_0mm\_Ch18700\_1RB\_OS0\_Ant 0**

**DUT: BBGM-WTW-P22110832**

Communication System: UID 10169 - CAF, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1860 MHz; Duty Cycle: 1:3.74

Medium: H06T27N3\_1224 Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.431$  S/m;  $\epsilon_r = 37.068$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(8.24, 8.24, 8.24) @ 1860 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.34 W/kg

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

Reference Value = 49.57 V/m; Power Drift = -0.07 dB

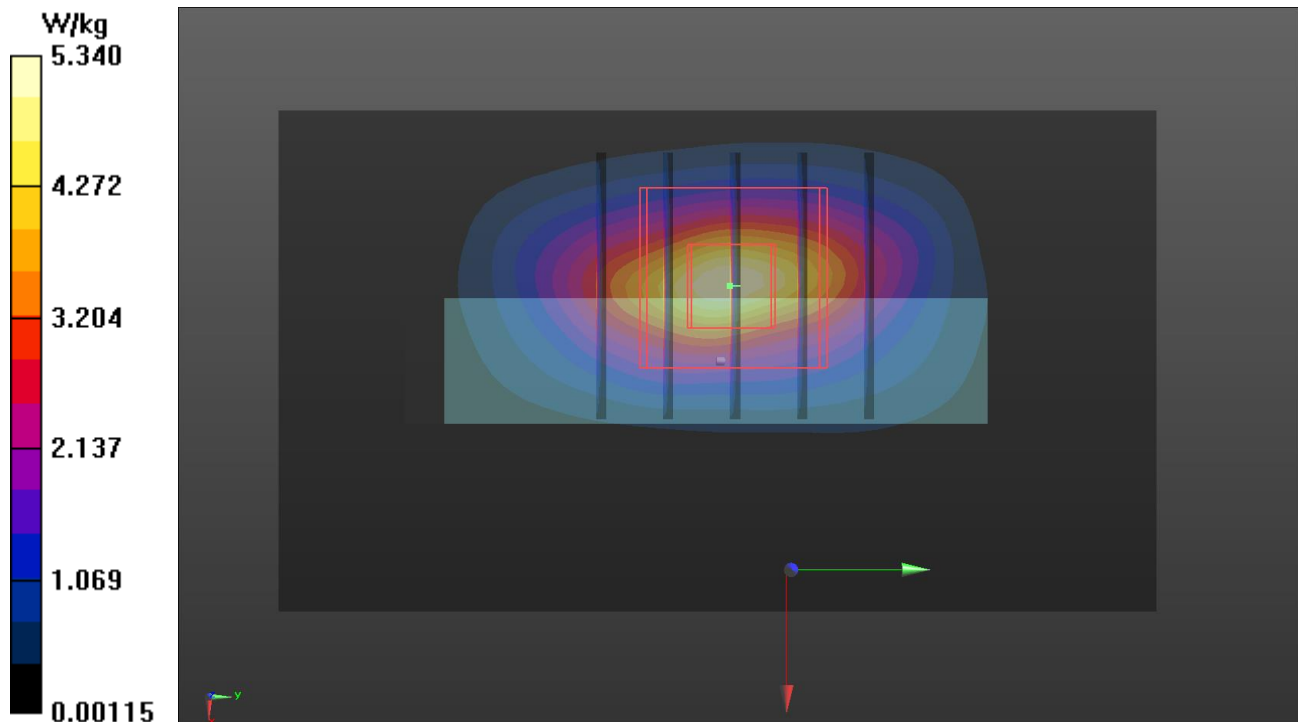
Peak SAR (extrapolated) = 7.42 W/kg

**SAR(1 g) = 3.41 W/kg; SAR(10 g) = 1.56 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 49.7%

Maximum value of SAR (measured) = 5.89 W/kg



## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/24

**P07 LTE 4\_QPSK20M\_Rear Face\_0mm\_Ch20175\_1RB\_OS0\_Ant 0**

**DUT: BBGM-WTW-P22110832**

Communication System: UID 10169 - CAF, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1732.5 MHz; Duty Cycle: 1:3.74

Medium: H06T27N3\_1224 Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.36$  S/m;  $\epsilon_r = 37.241$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(8.57, 8.57, 8.57) @ 1732.5 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 7.91 W/kg

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

Reference Value = 72.83 V/m; Power Drift = -0.05 dB

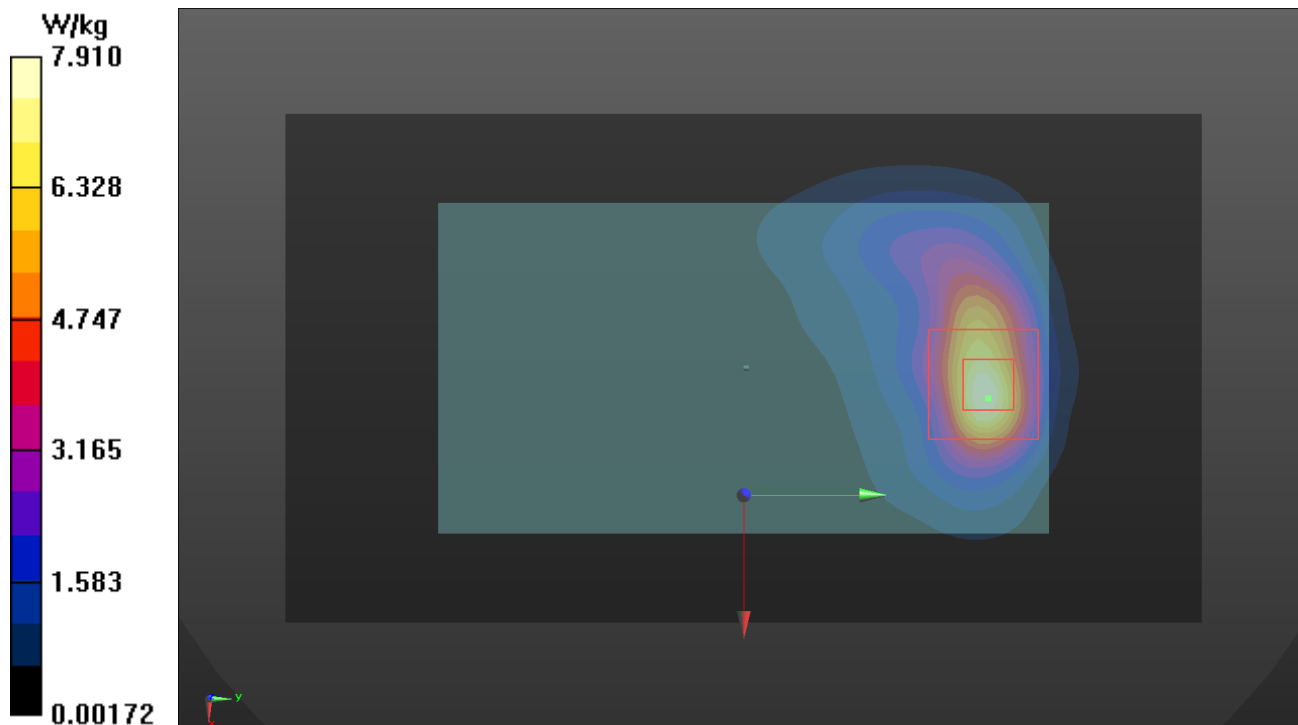
Peak SAR (extrapolated) = 9.01 W/kg

**SAR(1 g) = 3.86 W/kg; SAR(10 g) = 1.93 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 47.5%

Maximum value of SAR (measured) = 6.45 W/kg



## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/25

**P08 LTE 5\_QPSK10M\_Rear Face\_0mm\_Ch20600\_1RB\_OS0\_Ant 0**

**DUT: BBGM-WTW-P22110832**

Communication System: UID 10175 - CAH, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 844 MHz; Duty Cycle: 1:3.74

Medium: H06T27N3\_1225 Medium parameters used:  $f = 844$  MHz;  $\sigma = 0.898$  S/m;  $\epsilon_r = 39.877$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(10.5, 10.5, 10.5) @ 844 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.75 W/kg

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

Reference Value = 73.52 V/m; Power Drift = -0.11 dB

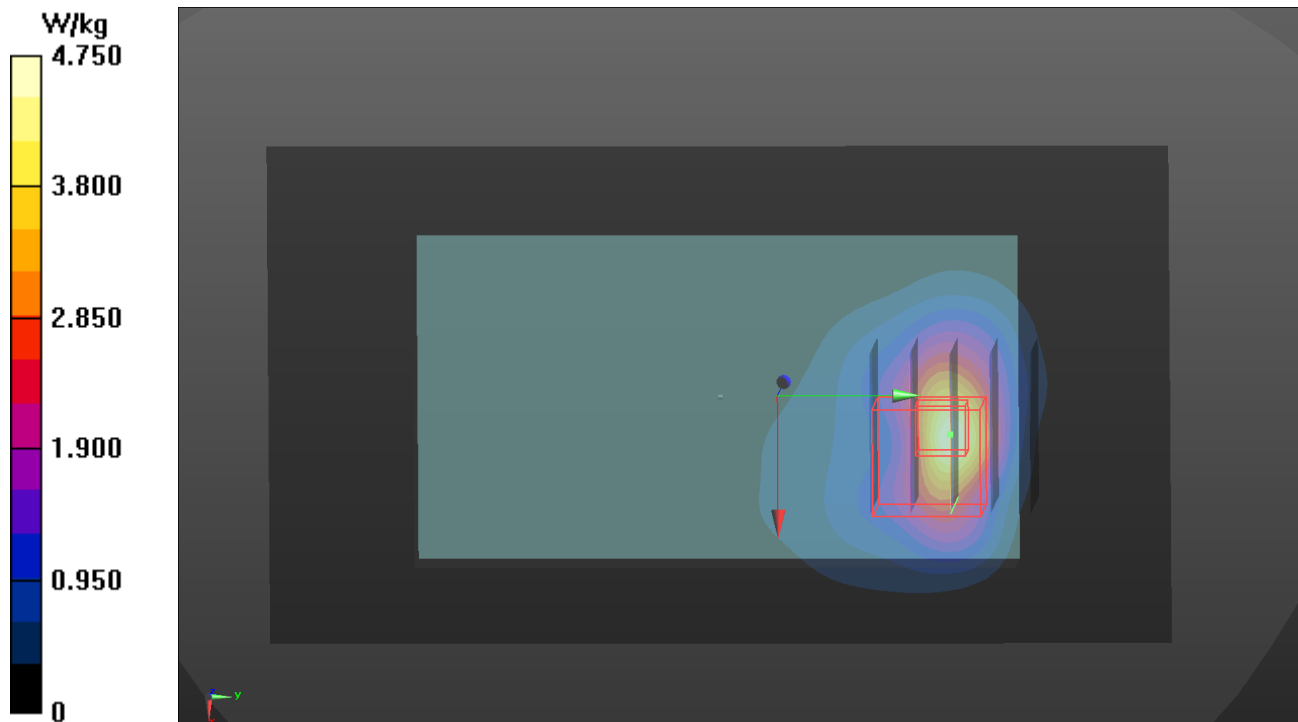
Peak SAR (extrapolated) = 9.32 W/kg

**SAR(1 g) = 2.1 W/kg; SAR(10 g) = 0.937 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 32.1%

Maximum value of SAR (measured) = 5.63 W/kg



## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/23

**P09 LTE 7\_QPSK20M\_Rear Face\_0mm\_Ch20850\_1RB\_OS0\_Ant 0**

**DUT: BBGM-WTW-P22110832**

Communication System: UID 10169 - CAF, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2510 MHz; Duty Cycle: 1:3.74

Medium: H06T27N3\_1223 Medium parameters used:  $f = 2510$  MHz;  $\sigma = 1.875$  S/m;  $\epsilon_r = 41.224$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(7.52, 7.52, 7.52) @ 2510 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (91x151x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 2.81 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.56 V/m; Power Drift = -0.16 dB

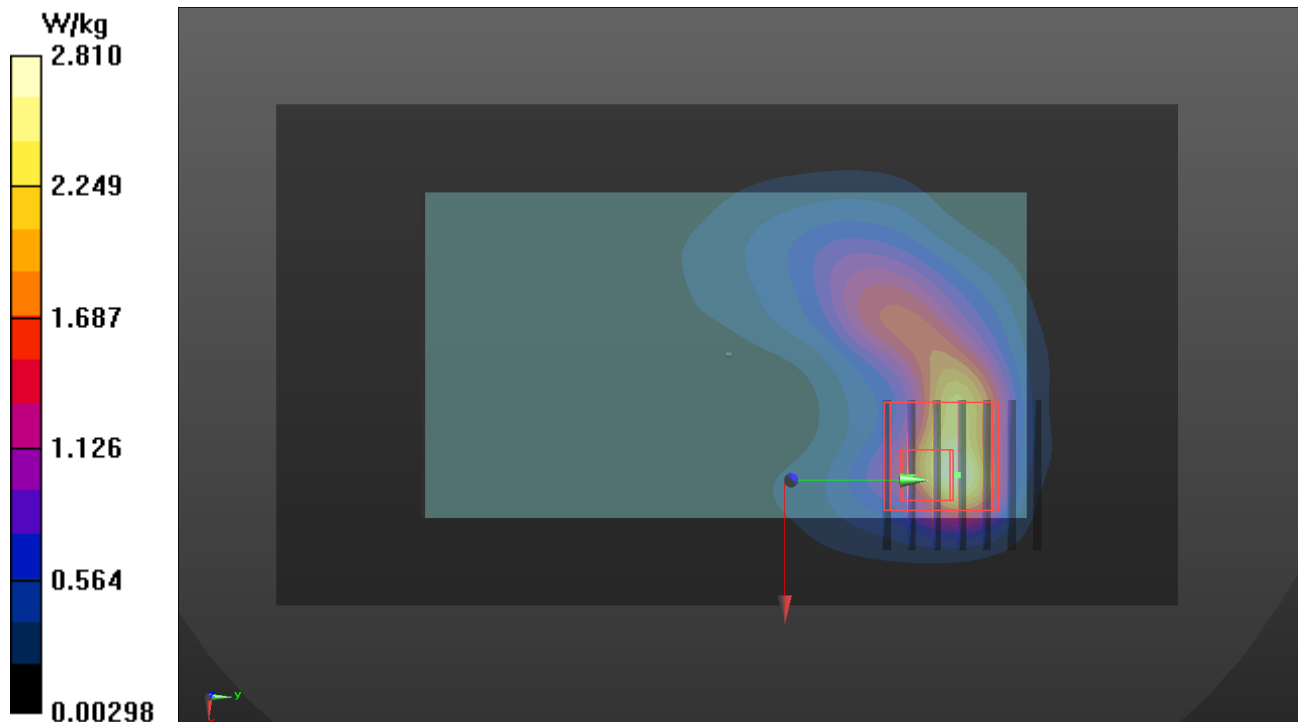
Peak SAR (extrapolated) = 4.57 W/kg

**SAR(1 g) = 1.77 W/kg; SAR(10 g) = 0.753 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 5.3 mm

Ratio of SAR at M2 to SAR at M1 = 37.9%

Maximum value of SAR (measured) = 3.23 W/kg





## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/23

**P10 LTE 12\_QPSK10M\_Rear Face\_0mm\_Ch23060\_1RB\_OS0\_Ant 0**

**DUT: BBGM-WTW-P22110832**

Communication System: UID 10175 - CAH, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 704 MHz; Duty Cycle: 1:3.74

Medium: H06T27N3\_1223 Medium parameters used:  $f = 704$  MHz;  $\sigma = 0.901$  S/m;  $\epsilon_r = 44.219$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(10.74, 10.74, 10.74) @ 704 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.13 W/kg

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

Reference Value = 59.88 V/m; Power Drift = -0.09 dB

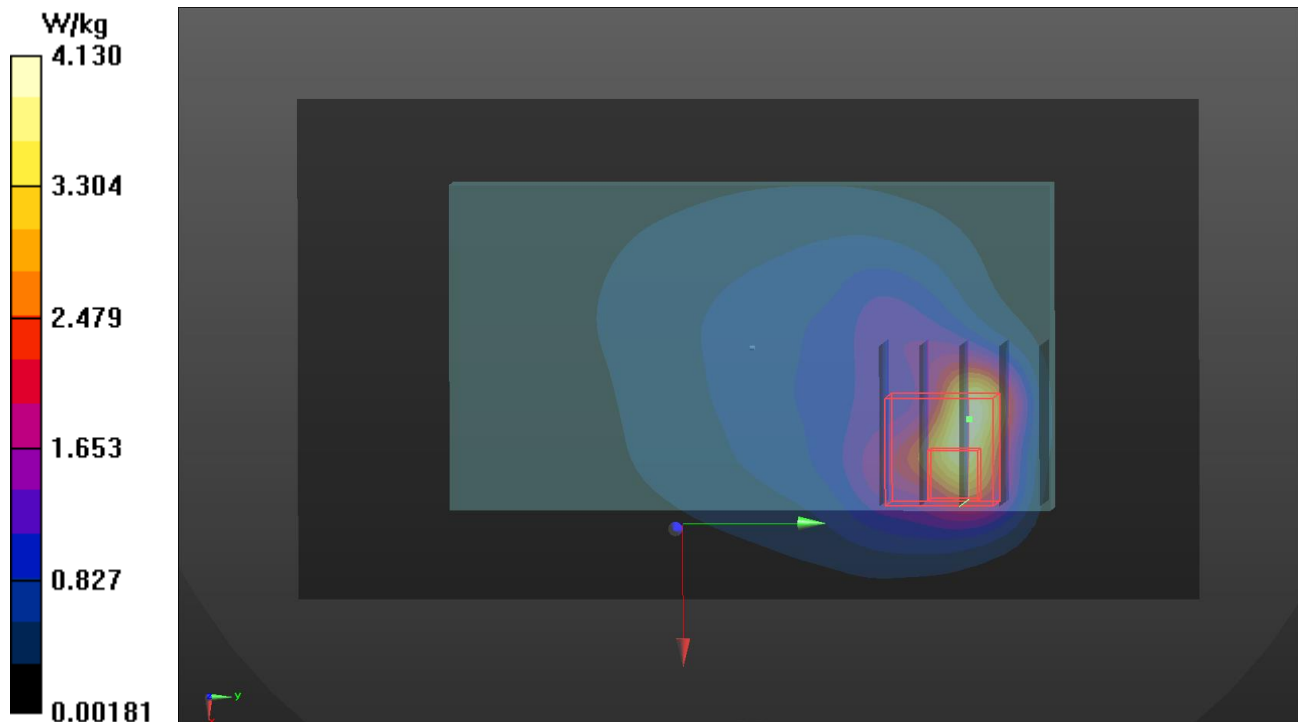
Peak SAR (extrapolated) = 7.92 W/kg

**SAR(1 g) = 1.83 W/kg; SAR(10 g) = 0.903 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 43.9%

Maximum value of SAR (measured) = 4.47 W/kg



## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/23

**P11 LTE 13\_QPSK10M\_Rear Face\_0mm\_Ch23230\_1RB\_OS0\_Ant 0**

**DUT: BBGM-WTW-P22110832**

Communication System: UID 10175 - CAH, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 782 MHz; Duty Cycle: 1:3.74

Medium: H06T27N3\_1223 Medium parameters used:  $f = 782$  MHz;  $\sigma = 0.927$  S/m;  $\epsilon_r = 44.04$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(10.74, 10.74, 10.74) @ 782 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.58 W/kg

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

Reference Value = 65.86 V/m; Power Drift = -0.06 dB

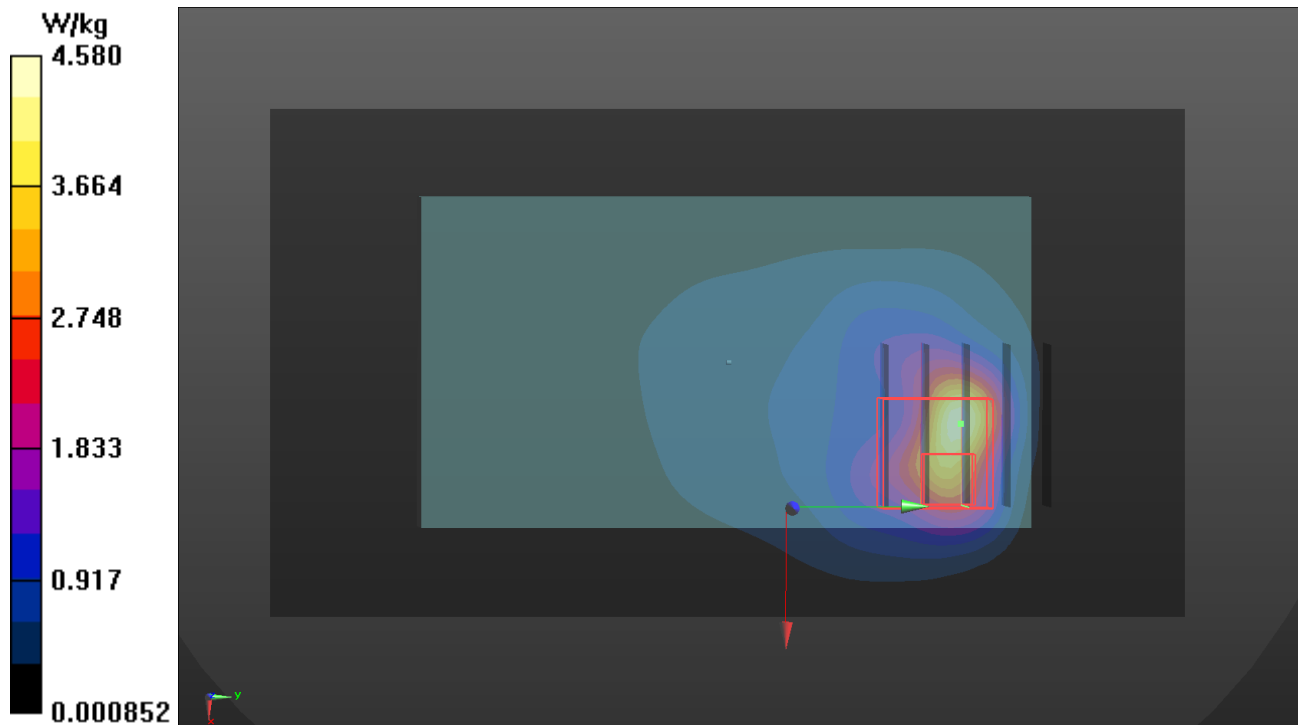
Peak SAR (extrapolated) = 10.4 W/kg

**SAR(1 g) = 1.99 W/kg; SAR(10 g) = 0.945 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 40.7%

Maximum value of SAR (measured) = 5.42 W/kg



## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/23

**P12 LTE 17\_QPSK10M\_Rear Face\_0mm\_Ch23780\_1RB\_OS0\_Ant 0**

**DUT: BBGM-WTW-P22110832**

Communication System: UID 10175 - CAH, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 709 MHz; Duty Cycle: 1:3.74

Medium: H06T27N3\_1223 Medium parameters used:  $f = 709$  MHz;  $\sigma = 0.903$  S/m;  $\epsilon_r = 44.206$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 21.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(10.74, 10.74, 10.74) @ 709 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.32 W/kg

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

Reference Value = 61.40 V/m; Power Drift = -0.10 dB

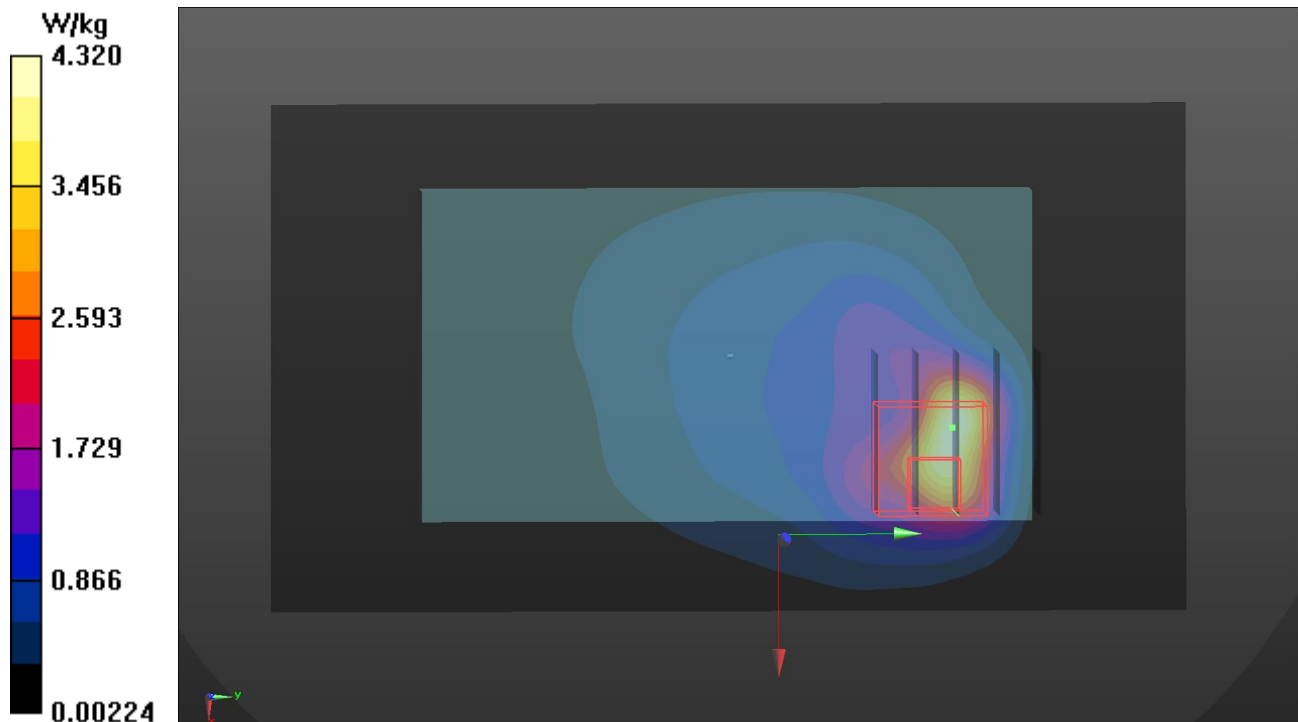
Peak SAR (extrapolated) = 7.83 W/kg

**SAR(1 g) = 1.88 W/kg; SAR(10 g) = 0.947 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 44.9%

Maximum value of SAR (measured) = 4.44 W/kg



## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/24

**P13 LTE 25\_QPSK20M\_Top Curve Side\_0mm\_Ch26140\_1RB\_OS50\_Ant 0**

**DUT: BBGM-WTW-P22110832**

Communication System: UID 10169 - CAF, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1860 MHz; Duty Cycle: 1:3.74

Medium: H06T27N3\_1224 Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.431$  S/m;  $\epsilon_r = 37.068$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(8.24, 8.24, 8.24) @ 1860 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.55 W/kg

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

Reference Value = 55.88 V/m; Power Drift = -0.17 dB

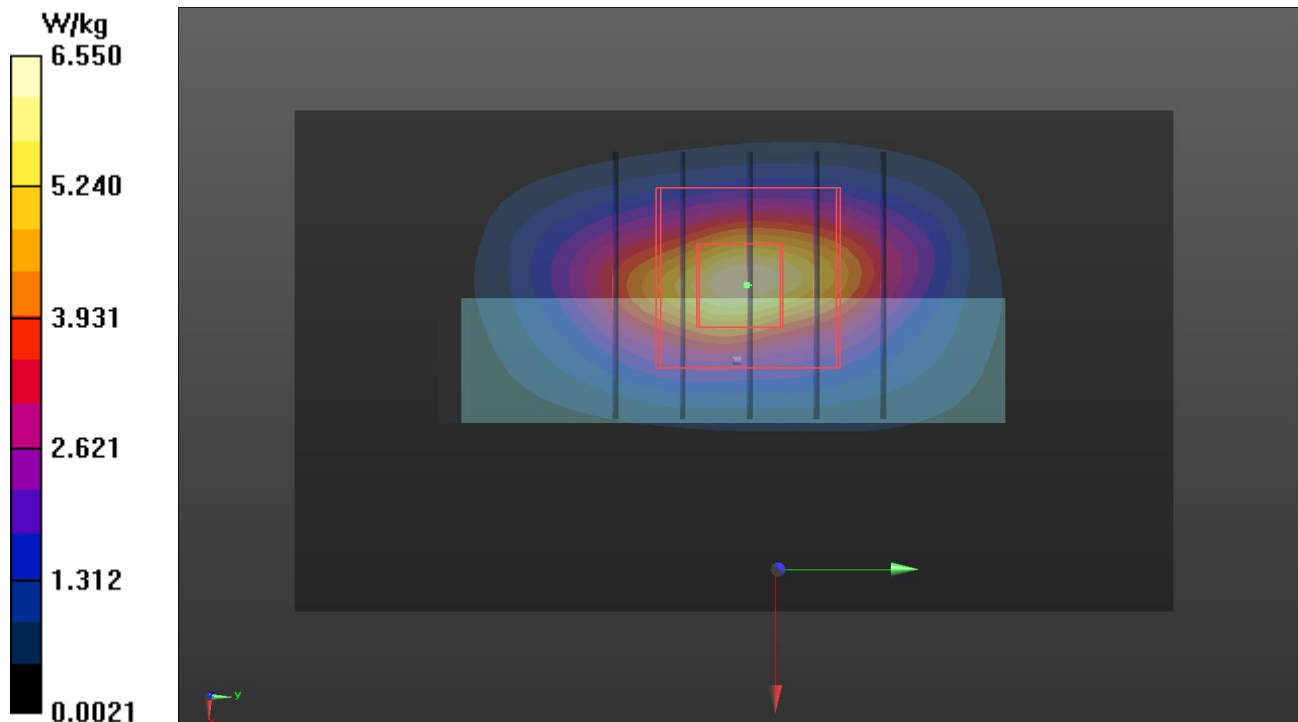
Peak SAR (extrapolated) = 9.37 W/kg

**SAR(1 g) = 4.29 W/kg; SAR(10 g) = 1.95 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 49.6%

Maximum value of SAR (measured) = 7.41 W/kg



## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/25

**P14 LTE 26\_QPSK15M\_Rear Face\_0mm\_Ch26865\_1RB\_OS0\_Ant 0**

**DUT: BBGM-WTW-P22110832**

Communication System: UID 10181 - CAF, LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK); Frequency: 831.5 MHz; Duty Cycle: 1:3.74

Medium: H06T27N3\_1225 Medium parameters used (interpolated):  $f = 831.5$  MHz;  $\sigma = 0.894$  S/m;  $\epsilon_r = 39.918$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(10.5, 10.5, 10.5) @ 831.5 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 4.16 W/kg

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

Reference Value = 67.46 V/m; Power Drift = -0.09 dB

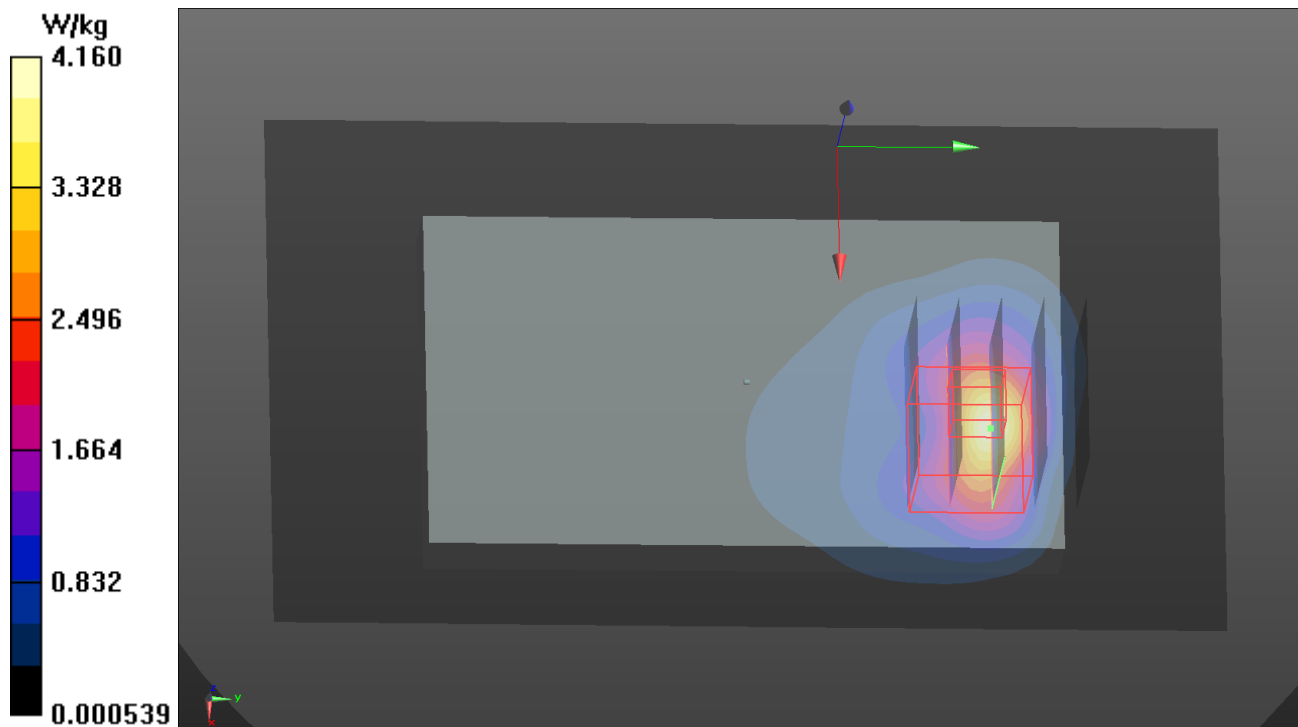
Peak SAR (extrapolated) = 9.53 W/kg

**SAR(1 g) = 1.82 W/kg; SAR(10 g) = 0.837 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 49.6%

Maximum value of SAR (measured) = 5.28 W/kg



## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/12/24

**P16 LTE 66\_QPSK20M\_Rear Face\_0mm\_Ch132072\_1RB\_OS0\_Ant 0**

**DUT: BBGM-WTW-P22110832**

Communication System: UID 10169 - CAF, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1720 MHz; Duty Cycle: 1:3.74

Medium: H06T27N3\_1225 Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.267$  S/m;  $\epsilon_r = 38.366$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(8.57, 8.57, 8.57) @ 1720 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.81 W/kg

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

Reference Value = 71.43 V/m; Power Drift = 0.07 dB

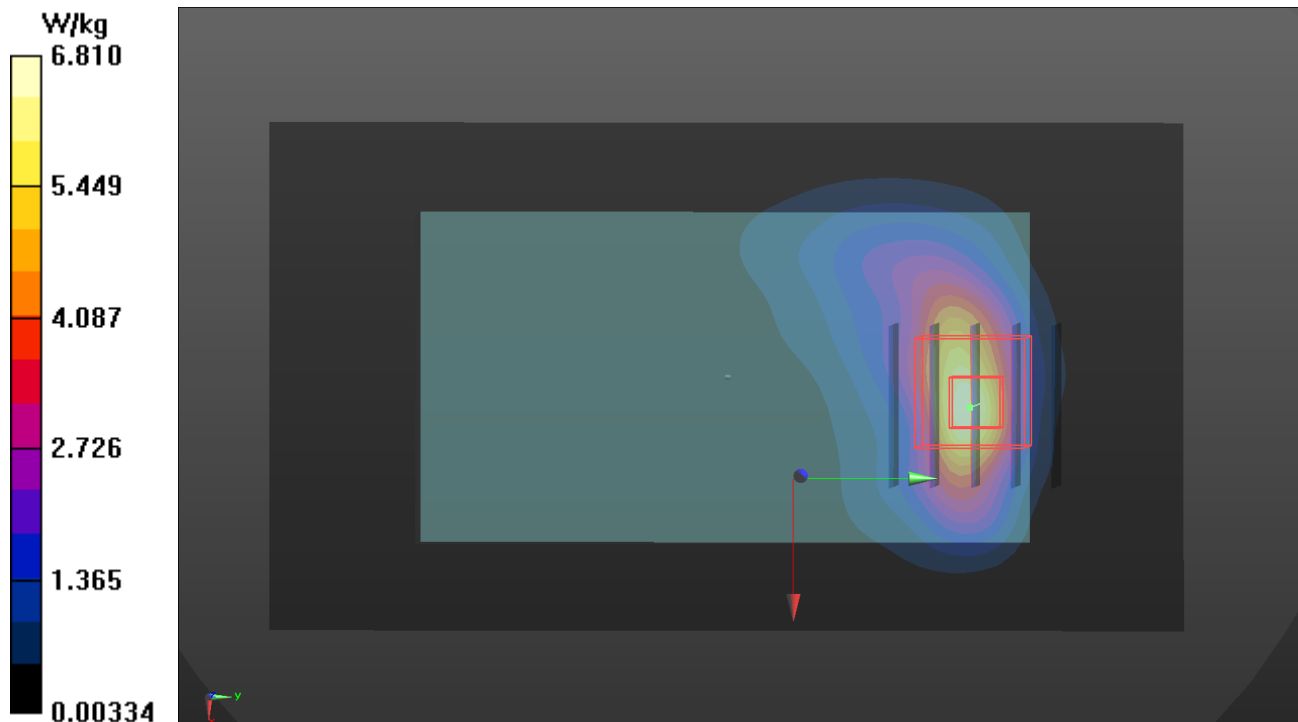
Peak SAR (extrapolated) = 7.58 W/kg

**SAR(1 g) = 3.64 W/kg; SAR(10 g) = 1.79 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 47.5%

Maximum value of SAR (measured) = 6.09 W/kg



## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2023/01/17

### P17 WLAN2.4G\_802.11b\_Rear Face\_0mm\_Ch1\_Ant 0

#### DUT: BBGM-WTW-P22110832

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2412 MHz; Duty Cycle: 1:1.02

Medium: H06T27N7\_0117 Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.807$  S/m;  $\epsilon_r = 40.361$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.4 °C ; Liquid Temperature : 21.1 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN7707; ConvF(8.13, 8.13, 8.13) @ 2412 MHz; Calibrated: 2022/02/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1590; Calibrated: 2022/09/22
- Phantom: Twin SAM Phantom\_1823; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (91x121x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.59 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.19 V/m; Power Drift = -0.02 dB

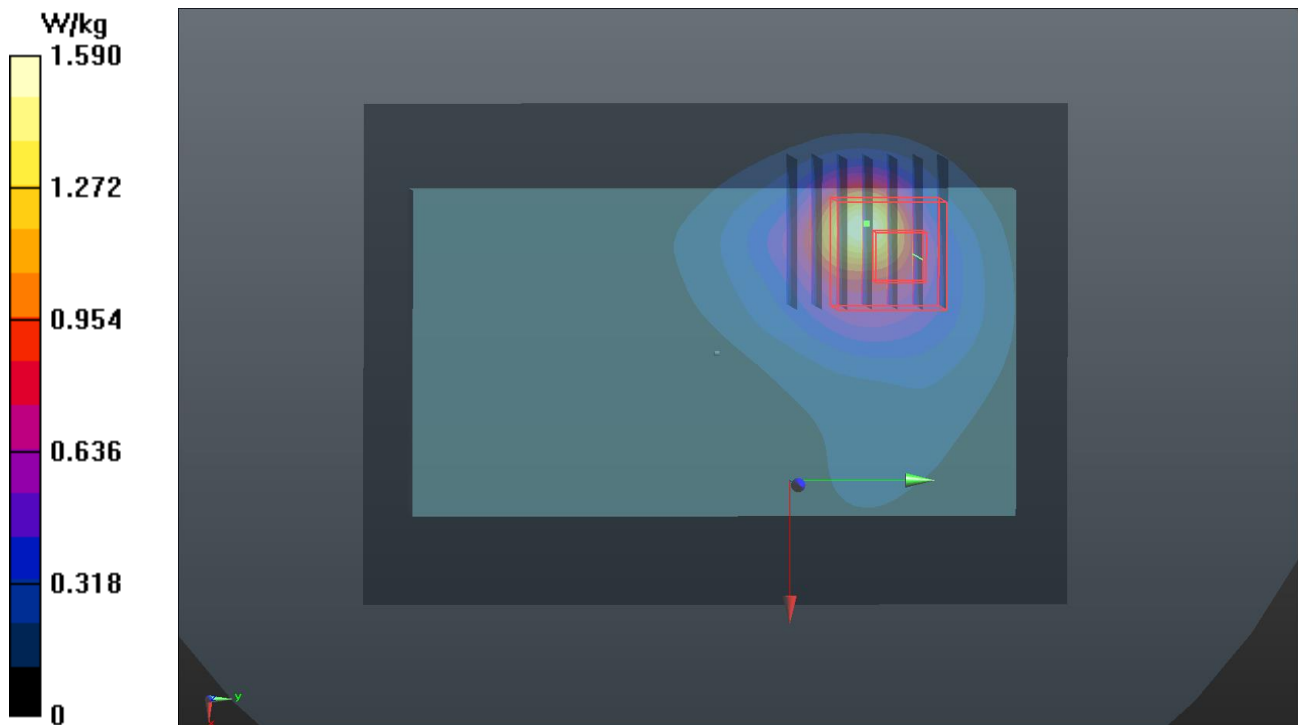
Peak SAR (extrapolated) = 2.06 W/kg

**SAR(1 g) = 0.852 W/kg; SAR(10 g) = 0.388 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 46.9%

Maximum value of SAR (measured) = 1.55 W/kg



## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2023/02/17

### P18 WLAN5.2G\_802.11a\_Right Side\_0mm\_Ch40\_Ant 0

DUT: BBGM-WTW-P22110832

Communication System: UID 10062 - CAD, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps); Frequency: 5200 MHz; Duty Cycle: 1:1.15

Medium: H51T72N3\_0217 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.506$  S/m;  $\epsilon_r = 36.681$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.7 °C ; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(5.54, 5.54, 5.54) @ 5200 MHz; Calibrated: 2022/04/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2022/04/21
- Phantom: Twin SAM Phantom\_1823; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (61x141x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 15.9 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.16 V/m; Power Drift = 0.05 dB

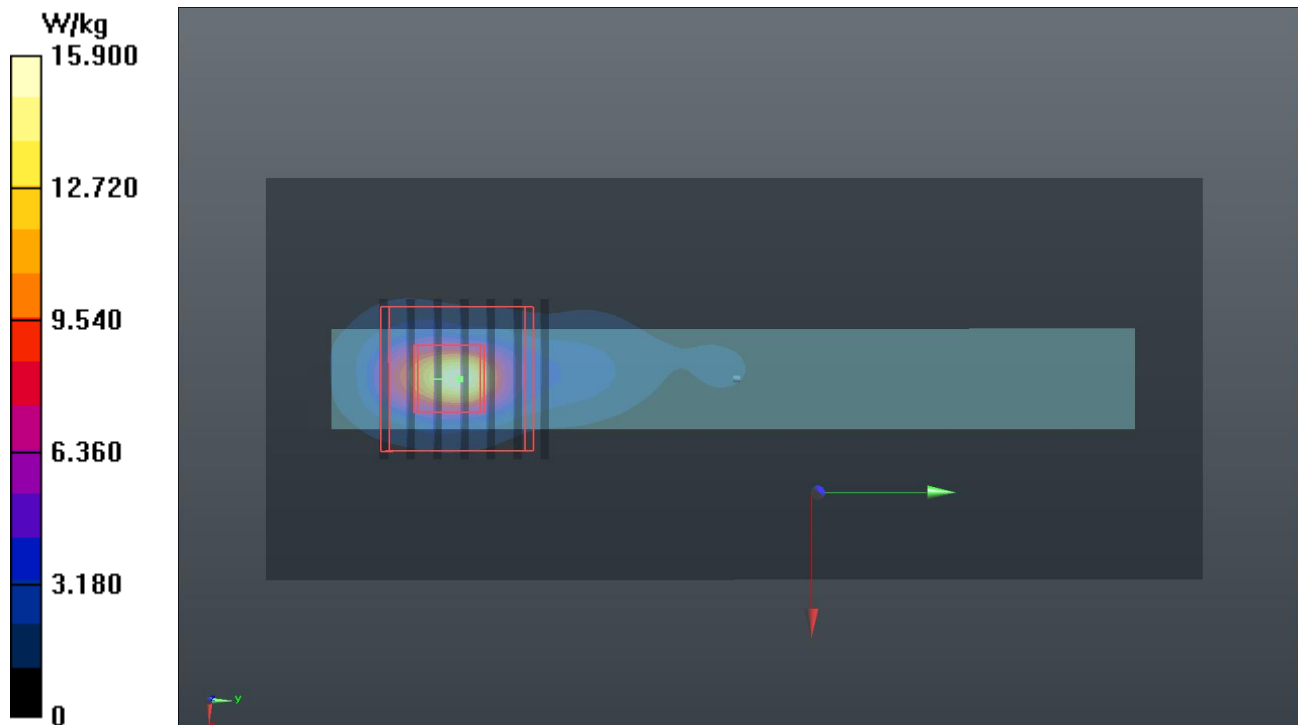
Peak SAR (extrapolated) = 33.4 W/kg

**SAR(1 g) = 6.5 W/kg; SAR(10 g) = 1.48 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 64%

Maximum value of SAR (measured) = 17.8 W/kg





## Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2023/01/17

**P19 BT\_BDR\_Rear Face\_0mm\_Ch0\_Ant 0**

**DUT: BBGM-WTW-P22110832**

Communication System: UID 10032 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH5); Frequency: 2402 MHz; Duty Cycle: 1:1.31

Medium: H06T27N7\_0117 Medium parameters used:  $f = 2402$  MHz;  $\sigma = 1.8$  S/m;  $\epsilon_r = 40.378$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.4 °C ; Liquid Temperature : 21.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7707; ConvF(8.13, 8.13, 8.13) @ 2402 MHz; Calibrated: 2022/02/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1590; Calibrated: 2022/09/22
- Phantom: Twin SAM Phantom\_1823; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (91x121x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.626 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.27 V/m; Power Drift = -0.08 dB

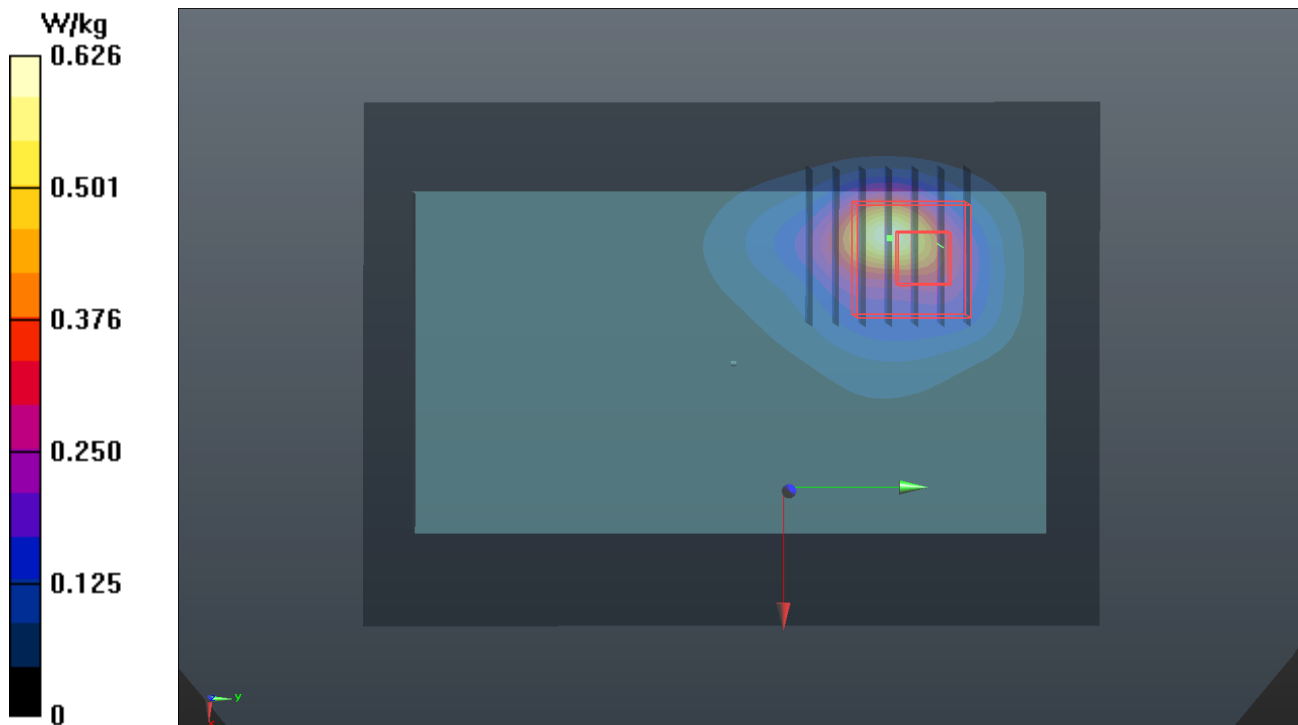
Peak SAR (extrapolated) = 0.613 W/kg

**SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.110 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 7.8 mm

Ratio of SAR at M2 to SAR at M1 = 44.6%

Maximum value of SAR (measured) = 0.437 W/kg





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## **Appendix D. Maximum Target Conducted Power**

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

<b>GSM Max. Tune-up Power (Full)</b>				
<b>Mode</b>	<b>GSM850</b>	<b>GSM850</b>	<b>GSM1900</b>	<b>GSM1900</b>
	<b>Maximum Burst-Averaged Output Power</b>	<b>Maximum Frame-Averaged Output Power</b>	<b>Maximum Burst-Averaged Output Power</b>	<b>Maximum Frame-Averaged Output Power</b>
	<b>Maximum Target Power</b>	<b>Maximum Target Power</b>	<b>Maximum Target Power</b>	<b>Maximum Target Power</b>
GSM (GMSK, 1Tx-slot)	32.0	23.0	28.5	19.5
GPRS (GMSK, 1Tx-slot)	32.0	23.0	28.0	19.0
GPRS (GMSK, 2Tx-slot)	29.5	23.5	28.0	22.0
GPRS (GMSK, 3Tx-slot)	27.0	22.7	26.5	22.2
GPRS (GMSK, 4Tx-slot)	26.0	23.0	25.5	22.5
EDGE (8PSK, 1Tx-slot)	26.0	17.0	25.5	16.5
EDGE (8PSK, 2Tx-slot)	26.0	20.0	25.5	19.5
EDGE (8PSK, 3Tx-slot)	22.5	18.2	24.0	19.7
EDGE (8PSK, 4Tx-slot)	21.0	18.0	20.5	17.5



<b>WCDMA Max. Tune-up Power (Full)</b>		
<b>Mode</b>	<b>RMC 12.2K</b>	<b>HSDPA DC-HSDPA HSUPA</b>
	<b>Maximum Target Power</b>	<b>Maximum Target Power</b>
WCDMA Band II	20.5	19.5
WCDMA Band IV	21.5	20.5
WCDMA Band V	23.0	22.0



<b>LTE Max. Tune-up Power (Full)</b>		
<b>Mode</b>	<b>QPSK</b>	<b>16QAM</b>
	<b>Maximum Target Power</b>	<b>Maximum Target Power</b>
LTE 2	20.5	19.5
LTE 4	21.5	20.5
LTE 5	23.5	22.5
LTE 7	21.0	20.0
LTE 12	23.0	22.0
LTE 13	23.0	22.0
LTE 17	22.5	21.5
LTE 25	21.5	20.5
LTE 26	23.0	22.0
LTE 66	23.0	21.0

<b>Tune-up Power (Full)</b>			
<b>WLAN 2.4GHz</b>			
<b>Mode</b>	<b>Channel</b>	<b>Frequency</b>	<b>SISO Ant 0 Max Tune up</b>
802.11b	1	2412	15.5
	6	2437	15.5
	11	2462	15.5
802.11g	1	2412	11.0
	6	2437	11.0
	11	2462	11.0
802.11n HT20	1	2412	10.0
	6	2437	10.0
	11	2462	10.0
802.11n HT40	3	2422	11.0
	6	2437	11.0
	9	2452	11.0



<b>Tune-up Power (Full)</b>			
<b>Bluetooth</b>			
<b>Mode</b>	<b>Channel</b>	<b>Frequency</b>	<b>Ant 0 Max Tune-up</b>
BR / EDR	0	2402	12.0
	39	2441	12.0
	78	2480	12.0



Tune-up Power (Full)			
WLAN 5.2GHz			
Mode	Channel	Frequency	SISO Ant 0 Max Tune up
802.11a	36	5180	10.0
	40	5200	14.0
	44	5220	14.0
	48	5240	14.0
802.11n HT20	36	5180	10.5
	40	5200	14.0
	44	5220	14.0
	48	5240	14.0
802.11n HT40	38	5190	4.5
	46	5230	12.0





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## **Appendix E. Measured Conducted Power Result**

The measuring conducted power (Unit: dBm) are shown as below.

<b>GSM Conducted Power (Full)</b>						
<b>Band</b>	<b>GSM850</b>			<b>GSM1900</b>		
<b>Channel</b>	<b>128</b>	<b>189</b>	<b>251</b>	<b>512</b>	<b>661</b>	<b>810</b>
<b>Frequency</b>	<b>824.2</b>	<b>836.4</b>	<b>848.8</b>	<b>1850.2</b>	<b>1880</b>	<b>1909.8</b>
<b>GSM</b>	31.32	31.53	<b>31.73</b>	27.95	<b>28.10</b>	27.66
<b>GPRS 1Tx Slot</b>	31.53	31.70	31.72	27.46	27.57	27.02
<b>GPRS 2Tx Slot</b>	28.67	29.17	29.37	26.58	27.13	26.51
<b>GPRS 3Tx Slot</b>	25.86	26.41	26.57	26.31	25.98	25.46
<b>GPRS 4Tx Slot</b>	25.11	25.66	25.88	25.21	24.78	24.25
<b>EDGE 1Tx Slot (MCS9)</b>	24.87	25.06	25.42	25.49	25.24	24.88
<b>EDGE 2Tx Slot (MCS9)</b>	24.11	24.46	24.72	25.25	24.98	24.63
<b>EDGE 3Tx Slot (MCS9)</b>	21.43	21.65	22.06	22.68	22.42	22.15
<b>EDGE 4Tx Slot (MCS9)</b>	20.25	20.72	20.86	20.39	20.45	20.02



WCDMA Conducted Power (Full)									
Band	WCDMA II			WCDMA IV			WCDMA V		
TX Channel	9262	9400	9538	1312	1413	1513	4132	4182	4233
Rx Channel	9662	9800	9938	1537	1638	1738	4357	4407	4458
Frequency	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
RMC 12.2K	20.09	19.97	19.81	21.31	21.27	21.15	22.42	22.32	22.41
HSDPA Subtest-1	19.22	19.13	19.07	20.22	20.16	20.08	21.39	21.22	21.30
HSDPA Subtest-2	19.14	19.00	18.86	20.17	20.07	20.00	21.31	21.16	21.24
HSDPA Subtest-3	18.67	18.55	18.47	19.72	19.66	19.61	20.76	20.58	20.71
HSDPA Subtest-4	18.61	18.50	18.37	19.65	19.59	19.54	20.64	20.44	20.50
DC-HSDPA Subtest-1	19.11	18.97	18.88	20.12	19.99	19.88	21.23	21.08	21.16
DC-HSDPA Subtest-2	19.06	18.99	18.92	20.08	19.97	19.83	21.18	20.96	21.11
DC-HSDPA Subtest-3	18.56	18.44	18.39	19.53	19.39	19.29	20.54	20.31	20.45
DC-HSDPA Subtest-4	18.51	18.45	18.33	19.46	19.32	19.17	20.51	20.34	20.40
HSUPA Subtest-1	19.01	18.90	18.77	20.01	19.88	19.82	21.11	20.89	20.96
HSUPA Subtest-2	17.26	17.11	17.04	18.33	18.21	18.07	19.39	19.20	19.32
HSUPA Subtest-3	18.16	18.10	18.00	19.46	19.35	19.24	20.62	20.45	20.51
HSUPA Subtest-4	17.21	17.08	17.01	18.28	18.16	18.02	19.31	19.10	19.23
HSUPA Subtest-5	18.92	18.80	18.75	19.91	19.85	19.72	21.19	21.04	21.12

LTE Conducted Power (Full)							
LTE Band 2							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		18700	18900	19100	
		Frequency (MHz)		1860	1880	1900	
20M	QPSK	1	0	20.38	20.43	20.35	0
		1	50	20.36	20.41	20.33	0
		1	99	20.32	20.35	20.26	0
		50	0	19.43	19.49	19.45	1
		50	25	19.47	19.47	19.38	1
		50	50	19.27	19.37	19.20	1
		100	0	19.32	19.42	19.24	1
20M	16QAM	1	0	19.30	19.36	19.22	1
		1	50	19.26	19.32	19.18	1
		1	99	19.15	19.22	19.13	1
		50	0	18.41	18.48	18.31	2
		50	25	18.43	18.45	18.43	2
		50	50	18.36	18.41	18.36	2
		100	0	18.37	18.42	18.34	2
		Channel		18675	18900	19125	3GPP MPR
		Frequency (MHz)		1857.5	1880	1902.5	
15M	QPSK	1	0	20.36	20.40	20.26	0
		1	37	20.29	20.32	20.24	0
		1	74	20.22	20.35	20.17	0
		36	0	19.49	19.50	19.50	1
		36	19	19.43	19.40	19.34	1
		36	39	19.26	19.35	19.15	1
		75	0	19.23	19.40	19.19	1
15M	16QAM	1	0	19.27	19.35	19.15	1
		1	37	19.18	19.24	19.16	1
		1	74	19.10	19.14	19.05	1
		36	0	18.36	18.40	18.31	2
		36	19	18.39	18.44	18.33	2
		36	39	18.26	18.40	18.33	2
		75	0	18.35	18.32	18.27	2

LTE Conducted Power (Full)							
LTE Band 2							
BW	MCS Index	Channel		18650	18900	19150	3GPP MPR
		Frequency (MHz)		1855	1880	1905	
10M	QPSK	1	0	20.31	20.39	20.26	0
		1	24	20.26	20.31	20.31	0
		1	49	20.32	20.33	20.22	0
		25	0	19.48	19.49	19.48	1
		25	12	19.45	19.46	19.33	1
		25	25	19.24	19.37	19.16	1
		50	0	19.27	19.33	19.16	1
10M	16QAM	1	0	19.26	19.26	19.17	1
		1	24	19.18	19.27	19.11	1
		1	49	19.07	19.20	19.06	1
		25	0	18.32	18.46	18.26	2
		25	12	18.35	18.43	18.42	2
		25	25	18.32	18.31	18.32	2
		50	0	18.37	18.41	18.28	2
BW	MCS Index	Channel		18625	18900	19175	3GPP MPR
		Frequency (MHz)		1852.5	1880	1907.5	
5M	QPSK	1	0	20.33	20.36	20.27	0
		1	12	20.35	20.39	20.28	0
		1	24	20.22	20.30	20.22	0
		12	0	19.46	19.48	19.41	1
		12	6	19.47	19.46	19.32	1
		12	13	19.20	19.35	19.12	1
		25	0	19.29	19.38	19.17	1
5M	16QAM	1	0	19.26	19.30	19.20	1
		1	12	19.24	19.25	19.16	1
		1	24	19.09	19.19	19.03	1
		12	0	18.33	18.44	18.25	2
		12	6	18.42	18.40	18.40	2
		12	13	18.33	18.32	18.34	2
		25	0	18.30	18.32	18.32	2

LTE Conducted Power (Full)							
LTE Band 2							
BW	MCS Index	Channel		18615	18900	19185	3GPP MPR
		Frequency (MHz)		1851.5	1880	1908.5	
3M	QPSK	1	0	20.28	20.33	20.18	0
		1	7	20.17	20.28	20.23	0
		1	14	20.22	20.16	20.12	0
		8	0	19.41	19.39	19.35	1
		8	3	19.28	19.29	19.26	1
		8	7	19.11	19.23	19.09	1
3M	16QAM	15	0	19.19	19.31	19.09	1
		1	0	19.16	19.24	19.07	1
		1	7	19.12	19.14	19.03	1
		1	14	19.01	19.07	19.01	1
		8	0	18.27	18.37	18.16	2
		8	3	18.33	18.31	18.30	2
3M	16QAM	8	7	18.18	18.22	18.22	2
		15	0	18.26	18.29	18.17	2
BW	MCS Index	Channel		18607	18900	19193	3GPP MPR
		Frequency (MHz)		1850.7	1880	1909.3	
1.4M	QPSK	1	0	20.20	20.24	20.15	0
		1	2	20.15	20.13	20.18	0
		1	5	20.19	20.07	19.98	0
		3	0	20.29	20.30	20.27	0
		3	1	20.14	20.18	20.26	0
		3	3	20.01	20.08	19.95	0
1.4M	16QAM	6	0	19.07	19.19	19.07	1
		1	0	19.16	19.11	19.04	1
		1	2	18.98	19.02	19.02	1
		1	5	18.96	18.98	18.87	1
		3	0	19.13	19.37	19.04	1
		3	1	19.29	19.30	19.17	1
1.4M	16QAM	3	3	19.10	19.09	19.21	1
		6	0	18.17	18.23	18.16	2

LTE Conducted Power (Full)							
LTE Band 4							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20050	20175	20300	
		Frequency (MHz)		1720	1732.5	1745	
20M	QPSK	1	0	20.85	21.13	21.11	0
		1	50	20.83	21.08	21.06	0
		1	99	20.61	20.86	20.81	0
		50	0	19.62	19.85	19.83	1
		50	25	18.70	19.00	18.94	1
		50	50	19.44	19.76	19.69	1
		100	0	19.47	19.79	19.72	1
20M	16QAM	1	0	19.25	19.63	19.55	1
		1	50	19.80	20.07	20.03	1
		1	99	19.02	19.41	19.32	1
		50	0	18.49	18.75	18.69	2
		50	25	18.37	18.72	18.64	2
		50	50	18.39	18.68	18.60	2
		100	0	18.39	18.66	18.65	2
BW	MCS Index	Channel		20025	20175	20325	3GPP MPR
		Frequency (MHz)		1717.5	1732.5	1747.5	
15M	QPSK	1	0	20.81	21.08	21.01	0
		1	37	20.80	21.00	21.00	0
		1	74	20.52	20.84	20.78	0
		36	0	19.59	19.77	19.77	1
		36	19	18.61	18.95	18.92	1
		36	39	19.43	19.69	19.67	1
		75	0	19.47	19.79	19.72	1
15M	16QAM	1	0	19.18	19.63	19.54	1
		1	37	19.80	20.00	19.95	1
		1	74	18.96	19.40	19.26	1
		36	0	18.39	18.72	18.68	2
		36	19	18.31	18.63	18.64	2
		36	39	18.39	18.59	18.56	2
		75	0	18.34	18.60	18.56	2

LTE Conducted Power (Full)							
LTE Band 4							
BW	MCS Index	Channel		20000	20175	20350	3GPP MPR
		Frequency (MHz)		1715	1732.5	1750	
10M	QPSK	1	0	20.76	21.06	21.04	0
		1	24	20.83	21.03	20.99	0
		1	49	20.52	20.83	20.72	0
		25	0	19.57	19.73	19.76	1
		25	12	18.67	18.92	18.90	1
		25	25	19.43	19.71	19.68	1
		50	0	19.40	19.73	19.72	1
10M	16QAM	1	0	19.23	19.59	19.49	1
		1	24	19.72	20.03	20.03	1
		1	49	19.02	19.34	19.25	1
		25	0	18.41	18.70	18.69	2
		25	12	18.32	18.67	18.61	2
		25	25	18.38	18.59	18.50	2
		50	0	18.33	18.65	18.59	2
BW	MCS Index	Channel		19975	20175	20375	3GPP MPR
		Frequency (MHz)		1712.5	1732.5	1752.5	
5M	QPSK	1	0	20.85	21.03	21.02	0
		1	12	20.82	21.08	21.06	0
		1	24	20.53	20.78	20.77	0
		12	0	19.56	19.79	19.83	1
		12	6	18.62	19.00	18.89	1
		12	13	19.34	19.68	19.61	1
		25	0	19.41	19.69	19.63	1
5M	16QAM	1	0	19.15	19.63	19.51	1
		1	12	19.71	19.97	19.93	1
		1	24	18.97	19.34	19.24	1
		12	0	18.40	18.67	18.67	2
		12	6	18.37	18.71	18.61	2
		12	13	18.38	18.66	18.55	2
		25	0	18.38	18.66	18.65	2



LTE Conducted Power (Full)							
LTE Band 4							
BW	MCS Index	Channel		19965	20175	20385	3GPP MPR
		Frequency (MHz)		1711.5	1732.5	1753.5	
3M	QPSK	1	0	20.71	20.93	20.95	0
		1	7	20.70	20.92	20.89	0
		1	14	20.48	20.73	20.63	0
		8	0	19.51	19.63	19.63	1
		8	3	18.59	18.87	18.74	1
		8	7	19.26	19.64	19.52	1
		15	0	19.29	19.69	19.56	1
3M	16QAM	1	0	19.09	19.52	19.44	1
		1	7	19.64	19.94	19.90	1
		1	14	18.88	19.28	19.13	1
		8	0	18.39	18.64	18.51	2
		8	3	18.24	18.54	18.48	2
		8	7	18.23	18.56	18.46	2
		15	0	18.26	18.55	18.50	2
BW	MCS Index	Channel		19957	20175	20393	3GPP MPR
		Frequency (MHz)		1710.7	1732.5	1754.3	
1.4M	QPSK	1	0	20.58	20.91	20.86	0
		1	2	20.56	20.85	20.78	0
		1	5	20.43	20.67	20.63	0
		3	0	20.39	20.61	20.55	0
		3	1	19.51	19.86	19.73	0
		3	3	20.20	20.56	20.42	0
		6	0	19.25	19.56	19.51	1
1.4M	16QAM	1	0	19.00	19.46	19.39	1
		1	2	19.63	19.80	19.79	1
		1	5	18.87	19.25	19.07	1
		3	0	19.39	19.56	19.42	1
		3	1	19.19	19.50	19.47	1
		3	3	19.14	19.43	19.34	1
		6	0	18.25	18.51	18.46	2

LTE Conducted Power (Full)							
LTE Band 5							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20450	20525	20600	
		Frequency (MHz)		829	836.5	844	
10M	QPSK	1	0	22.95	22.86	23.00	0
		1	24	22.93	22.83	22.96	0
		1	49	22.57	22.46	22.61	0
		25	0	22.23	22.05	22.27	1
		25	12	22.14	22.02	22.24	1
		25	25	22.11	21.97	22.14	1
		50	0	22.16	21.97	22.18	1
10M	16QAM	1	0	21.80	21.68	21.85	1
		1	24	21.72	21.56	21.78	1
		1	49	21.66	21.54	21.67	1
		25	0	21.08	20.97	21.18	2
		25	12	22.14	22.03	22.16	2
		25	25	22.08	21.95	22.13	2
		50	0	21.08	20.95	21.14	2
BW	MCS Index	Channel		20425	20525	20625	3GPP MPR
		Frequency (MHz)		826.5	836.5	846.5	
		5M	QPSK	1	0	22.92	
1	12			22.86	22.77	22.86	0
1	24			22.55	22.36	22.52	0
12	0			22.22	22.01	22.17	1
12	6			22.12	22.00	22.23	1
12	13			22.10	21.92	22.13	1
25	0			22.08	21.97	22.18	1
5M	16QAM	1	0	21.76	21.59	21.79	1
		1	12	21.72	21.47	21.74	1
		1	24	21.58	21.53	21.63	1
		12	0	21.00	20.90	21.14	2
		12	6	22.11	21.94	22.08	2
		12	13	22.00	21.95	22.03	2
		25	0	21.03	20.85	21.07	2

LTE Conducted Power (Full)							
LTE Band 5							
BW	MCS Index	Channel		20415	20525	20635	3GPP MPR
		Frequency (MHz)		825.5	836.5	847.5	
3M	QPSK	1	0	22.88	22.84	22.95	0
		1	7	22.87	22.82	22.90	0
		1	14	22.56	22.42	22.54	0
		8	0	22.15	22.01	22.21	1
		8	3	22.09	22.01	22.19	1
		8	7	22.09	21.88	22.12	1
3M	16QAM	15	0	22.14	21.96	22.11	1
		1	0	21.74	21.63	21.80	1
		1	7	21.72	21.52	21.72	1
		1	14	21.64	21.50	21.64	1
		8	0	21.06	20.96	21.08	2
		8	3	22.11	22.03	22.06	2
3M	16QAM	8	7	22.06	21.87	22.10	2
		15	0	21.04	20.94	21.11	2
BW	MCS Index	Channel		20407	20525	20643	3GPP MPR
		Frequency (MHz)		824.7	836.5	848.3	
1.4M	QPSK	1	0	22.93	22.78	22.92	0
		1	2	22.90	22.73	22.90	0
		1	5	22.49	22.37	22.51	0
		3	0	22.20	22.05	22.17	0
		3	1	22.07	22.02	22.14	0
		3	3	22.07	21.91	22.11	0
1.4M	16QAM	6	0	22.09	21.93	22.18	1
		1	0	21.76	21.60	21.78	1
		1	2	21.67	21.54	21.74	1
		1	5	21.56	21.49	21.63	1
		3	0	20.98	20.96	21.11	1
		3	1	22.06	21.99	22.09	1
1.4M	16QAM	3	3	22.06	21.87	22.11	1
		6	0	21.06	20.87	21.12	2

LTE Conducted Power (Full)							
LTE Band 7							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20850	21100	21350	
		Frequency (MHz)		2510	2535	2560	
20M	QPSK	1	0	20.29	20.19	20.21	0
		1	50	20.25	20.14	20.18	0
		1	99	20.21	20.03	20.13	0
		50	0	19.26	19.10	19.16	1
		50	25	19.23	19.18	19.21	1
		50	50	19.21	19.05	19.11	1
		100	0	18.43	18.33	18.42	1
20M	16QAM	1	0	19.26	19.20	19.22	1
		1	50	19.05	18.90	18.99	1
		1	99	18.82	18.70	18.75	1
		50	0	17.62	17.58	17.60	2
		50	25	17.42	17.37	17.41	2
		50	50	17.39	17.27	17.31	2
		100	0	17.48	17.38	17.39	2
BW	MCS Index	Channel		20825	21100	21375	3GPP MPR
		Frequency (MHz)		2507.5	2535	2562.5	
15M	QPSK	1	0	20.26	20.15	20.13	0
		1	37	20.23	20.13	20.12	0
		1	74	20.11	20.03	20.11	0
		36	0	19.21	19.08	19.11	1
		36	19	19.18	19.14	19.14	1
		36	39	19.17	18.98	19.08	1
		75	0	18.42	18.23	18.36	1
15M	16QAM	1	0	19.18	19.20	19.14	1
		1	37	19.01	18.87	18.93	1
		1	74	18.81	18.68	18.75	1
		36	0	17.58	17.58	17.54	2
		36	19	17.41	17.37	17.37	2
		36	39	17.30	17.24	17.30	2
		75	0	17.45	17.31	17.38	2

LTE Conducted Power (Full)							
LTE Band 7							
BW	MCS Index	Channel		20800	21100	21400	3GPP MPR
		Frequency (MHz)		2505	2535	2565	
10M	QPSK	1	0	20.24	20.16	20.12	0
		1	24	20.22	20.13	20.13	0
		1	49	20.21	19.96	20.05	0
		25	0	19.23	19.02	19.07	1
		25	12	19.19	19.13	19.15	1
		25	25	19.17	19.05	19.04	1
		50	0	18.41	18.31	18.38	1
10M	16QAM	1	0	19.24	19.18	19.21	1
		1	24	18.97	18.83	18.91	1
		1	49	18.75	18.65	18.69	1
		25	0	17.57	17.58	17.60	2
		25	12	17.36	17.28	17.38	2
		25	25	17.34	17.22	17.31	2
		50	0	17.41	17.36	17.35	2
BW	MCS Index	Channel		20775	21100	21425	3GPP MPR
		Frequency (MHz)		2502.5	2535	2567.5	
5M	QPSK	1	0	20.19	20.18	20.20	0
		1	12	20.20	20.08	20.11	0
		1	24	20.17	19.95	20.10	0
		12	0	19.25	19.05	19.06	1
		12	6	19.13	19.12	19.11	1
		12	13	19.18	18.99	19.02	1
		25	0	18.37	18.27	18.33	1
5M	16QAM	1	0	19.26	19.11	19.18	1
		1	12	18.95	18.82	18.93	1
		1	24	18.78	18.68	18.74	1
		12	0	17.54	17.56	17.59	2
		12	6	17.32	17.35	17.40	2
		12	13	17.30	17.25	17.21	2
		25	0	17.42	17.29	17.37	2



LTE Conducted Power (Full)							
LTE Band 12							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23060	23095	23130	
		Frequency (MHz)		704	707.5	711	
10M	QPSK	1	0	22.53	22.39	22.28	0
		1	24	22.46	22.36	22.26	0
		1	49	22.28	22.20	22.13	0
		25	0	21.26	21.23	21.18	1
		25	12	21.32	21.29	21.26	1
		25	25	21.25	21.25	21.24	1
		50	0	21.29	21.23	21.20	1
10M	16QAM	1	0	20.99	20.97	20.95	1
		1	24	20.82	20.79	20.69	1
		1	49	20.68	20.64	20.59	1
		25	0	20.22	20.12	20.09	2
		25	12	20.29	20.23	20.20	2
		25	25	20.13	20.03	19.97	2
		50	0	20.26	20.20	20.10	2
BW	0	Channel		23035	23095	23155	3GPP MPR
		Frequency (MHz)		701.5	707.5	713.5	
5M	QPSK	1	0	22.45	22.35	22.20	0
		1	12	22.38	22.27	22.19	0
		1	24	22.26	22.20	22.11	0
		12	0	21.25	21.23	21.10	1
		12	6	21.32	21.27	21.22	1
		12	13	21.22	21.23	21.19	1
		25	0	21.22	21.23	21.19	1
5M	16QAM	1	0	20.93	20.97	20.87	1
		1	12	20.75	20.70	20.67	1
		1	24	20.63	20.59	20.52	1
		12	0	20.16	20.09	19.99	2
		12	6	20.20	20.20	20.11	2
		12	13	20.07	20.02	19.96	2
		25	0	20.18	20.19	20.04	2



LTE Conducted Power (Full)							
LTE Band 12							
BW	MCS Index	Channel		23025	23095	23165	3GPP MPR
		Frequency (MHz)		700.5	707.5	714.5	
3M	QPSK	1	0	22.43	22.38	22.21	0
		1	7	22.41	22.28	22.21	0
		1	14	22.20	22.17	22.11	0
		8	0	21.23	21.22	21.16	1
		8	3	21.26	21.24	21.18	1
		8	7	21.17	21.17	21.21	1
3M	16QAM	15	0	21.29	21.18	21.16	1
		1	0	20.99	20.90	20.89	1
		1	7	20.73	20.76	20.64	1
		1	14	20.61	20.62	20.55	1
		8	0	20.12	20.06	20.07	2
		8	3	20.22	20.18	20.16	2
BW	MCS Index	Channel		23017	23095	23173	3GPP MPR
		Frequency (MHz)		699.7	707.5	715.3	
1.4M	QPSK	8	7	20.07	19.95	19.92	2
		15	0	20.16	20.13	20.04	2
		1	0	22.38	22.21	22.11	0
		1	2	22.29	22.21	22.09	0
		1	5	22.09	22.01	22.03	0
		3	0	22.12	22.09	22.04	0
1.4M	16QAM	3	1	22.09	22.11	21.99	0
		3	3	22.11	22.00	22.07	0
		6	0	21.15	21.02	21.05	1
		1	0	20.75	20.78	20.74	1
		1	2	20.66	20.71	20.45	1
		1	5	20.43	20.42	20.50	1
1.4M	16QAM	3	0	21.05	20.96	20.87	1
		3	1	21.17	21.09	21.02	1
		3	3	21.07	20.82	20.87	1
		6	0	20.09	20.06	20.02	2

LTE Conducted Power (Full)							
LTE Band 13							
BW	MCS Index	RB Size	RB Offset		Mid		3GPP MPR (dB)
		Channel			23230		
		Frequency (MHz)			782		
10M	QPSK	1	0		22.38		0
		1	24		22.33		0
		1	49		22.22		0
		25	0		21.11		1
		25	12		21.05		1
		25	25		21.02		1
		50	0		21.06		1
10M	16QAM	1	0		20.82		1
		1	24		20.77		1
		1	49		20.67		1
		25	0		20.04		2
		25	12		20.02		2
		25	25		19.98		2
		50	0		20.02		2
BW	MCS Index	Channel		23205	23230	23255	3GPP MPR
		Frequency (MHz)		779.5	782	784.5	
5M	QPSK	1	0	22.32	22.33	22.18	0
		1	12	22.19	22.30	22.14	0
		1	24	22.09	22.15	21.98	0
		12	0	21.00	21.10	20.87	1
		12	6	20.96	20.97	21.00	1
		12	13	20.85	20.95	20.81	1
		25	0	21.04	21.00	20.91	1
5M	16QAM	1	0	20.76	20.80	20.63	1
		1	12	20.64	20.74	20.63	1
		1	24	20.62	20.65	20.52	1
		12	0	19.98	20.03	19.94	2
		12	6	19.89	19.96	19.95	2
		12	13	19.94	19.92	19.96	2
		25	0	19.92	20.02	19.82	2



LTE Conducted Power (Full)							
LTE Band 17							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23780	23790	23800	
		Frequency (MHz)		709	710	711	
10M	QPSK	1	0	22.41	22.38	22.34	0
		1	24	22.22	22.19	22.17	0
		1	49	21.95	21.85	21.88	0
		25	0	21.07	20.99	21.00	1
		25	12	21.01	21.00	20.98	1
		25	25	20.96	20.90	20.89	1
		50	0	21.06	21.06	21.04	1
10M	16QAM	1	0	20.82	20.76	20.73	1
		1	24	20.78	20.72	20.69	1
		1	49	20.63	20.56	20.59	1
		25	0	20.22	20.22	20.13	2
		25	12	20.17	20.09	20.09	2
		25	25	20.11	20.09	20.08	2
		50	0	20.13	20.06	20.04	2
BW	MCS Index	Channel		23755	23790	23825	3GPP MPR
		Frequency (MHz)		706.5	710	713.5	
		5M	QPSK	1	0	22.36	
1	12			22.15	22.11	22.09	0
1	24			21.93	21.76	21.88	0
12	0			21.03	20.91	20.96	1
12	6			20.96	20.94	20.90	1
12	13			20.91	20.80	20.83	1
25	0			20.98	21.05	20.99	1
5M	16QAM	1	0	20.80	20.67	20.68	1
		1	12	20.70	20.70	20.63	1
		1	24	20.63	20.47	20.50	1
		12	0	20.12	20.14	20.07	2
		12	6	20.16	20.00	20.07	2
		12	13	20.07	20.03	19.98	2
		25	0	20.07	20.02	20.03	2



LTE Conducted Power (Full)							
LTE Band 25							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26140	26365	26590	
		Frequency (MHz)		1860	1882.5	1905	
20M	QPSK	1	0	21.15	21.27	21.13	0
		1	50	21.17	21.22	21.10	0
		1	99	21.14	21.18	21.05	0
		50	0	20.26	20.32	20.20	1
		50	25	20.23	20.28	20.18	1
		50	50	20.16	20.18	20.09	1
		100	0	20.18	20.26	20.13	1
20M	16QAM	1	0	19.92	19.95	19.91	1
		1	50	19.81	19.86	19.75	1
		1	99	19.77	19.82	19.70	1
		50	0	19.32	19.34	19.23	2
		50	25	19.13	19.22	19.15	2
		50	50	19.10	19.18	19.10	2
		100	0	19.13	19.16	19.12	2
BW	MCS Index	Channel		26115	26365	26615	3GPP MPR
		Frequency (MHz)		1857.5	1882.5	1907.5	
		15M	QPSK	1	0	21.08	
1	37			21.09	21.15	21.06	0
1	74			21.06	21.16	21.01	0
36	0			20.23	20.30	20.10	1
36	19			20.17	20.20	20.17	1
36	39			20.12	20.18	20.06	1
75	0			20.13	20.23	20.06	1
15M	16QAM	1	0	19.85	19.87	19.85	1
		1	37	19.81	19.82	19.71	1
		1	74	19.67	19.77	19.67	1
		36	0	19.32	19.31	19.14	2
		36	19	19.10	19.18	19.06	2
		36	39	19.02	19.09	19.02	2
		75	0	19.13	19.09	19.12	2

LTE Conducted Power (Full)							
LTE Band 25							
BW	MCS Index	Channel		26090	26365	26640	3GPP MPR
		Frequency (MHz)		1855	1882.5	1910	
10M	QPSK	1	0	21.07	21.21	21.07	0
		1	24	21.15	21.13	21.03	0
		1	49	21.07	21.15	21.02	0
		25	0	20.22	20.23	20.18	1
		25	12	20.17	20.21	20.08	1
		25	25	20.12	20.14	19.99	1
		50	0	20.16	20.19	20.03	1
10M	16QAM	1	0	19.86	19.86	19.85	1
		1	24	19.75	19.83	19.73	1
		1	49	19.72	19.79	19.67	1
		25	0	19.28	19.27	19.19	2
		25	12	19.11	19.20	19.13	2
		25	25	19.10	19.16	19.01	2
		50	0	19.11	19.08	19.06	2
BW	MCS Index	Channel		26065	26365	26665	3GPP MPR
		Frequency (MHz)		1852.5	1882.5	1912.5	
5M	QPSK	1	0	21.13	21.18	21.13	0
		1	12	21.16	21.13	21.08	0
		1	24	21.08	21.08	20.95	0
		12	0	20.18	20.29	20.17	1
		12	6	20.23	20.28	20.18	1
		12	13	20.07	20.13	19.99	1
		25	0	20.12	20.17	20.03	1
5M	16QAM	1	0	19.89	19.85	19.88	1
		1	12	19.73	19.80	19.71	1
		1	24	19.73	19.76	19.67	1
		12	0	19.22	19.29	19.16	2
		12	6	19.04	19.22	19.12	2
		12	13	19.07	19.10	19.00	2
		25	0	19.05	19.06	19.10	2

LTE Conducted Power (Full)							
LTE Band 25							
BW	MCS Index	Channel		26055	26365	26675	3GPP MPR
		Frequency (MHz)		1851.5	1882.5	1913.5	
3M	QPSK	1	0	21.03	21.15	21.02	0
		1	7	21.02	21.11	20.90	0
		1	14	20.97	21.03	20.95	0
		8	0	20.09	20.19	20.07	1
		8	3	20.03	20.14	20.08	1
		8	7	20.04	19.98	19.95	1
3M	16QAM	15	0	20.02	20.08	19.98	1
		1	0	19.74	19.77	19.78	1
		1	7	19.64	19.72	19.57	1
		1	14	19.65	19.69	19.55	1
		8	0	19.16	19.20	19.05	2
		8	3	19.00	19.03	18.95	2
3M	16QAM	8	7	18.98	19.05	18.96	2
		15	0	18.93	18.97	18.96	2
BW	MCS Index	Channel		26047	26365	26683	3GPP MPR
		Frequency (MHz)		1850.7	1882.5	1914.3	
1.4M	QPSK	1	0	20.95	21.11	20.98	0
		1	2	21.02	21.09	20.90	0
		1	5	20.93	20.93	20.99	0
		3	0	21.02	21.08	20.97	0
		3	1	20.99	21.05	21.06	0
		3	3	21.09	20.92	20.86	0
1.4M	16QAM	6	0	19.95	20.07	19.97	1
		1	0	19.65	19.68	19.68	1
		1	2	19.62	19.63	19.50	1
		1	5	19.60	19.73	19.59	1
		3	0	20.08	20.21	19.95	1
		3	1	19.98	19.94	19.91	1
1.4M	16QAM	3	3	19.95	20.00	19.96	1
		6	0	18.95	19.01	18.88	2

LTE Conducted Power (Full)							
LTE Band 26							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26765	26865	26965	
		Frequency (MHz)		821.5	831.5	841.5	
15M	QPSK	1	0	22.21	22.42	22.28	0
		1	37	22.17	22.35	22.21	0
		1	74	22.07	22.33	22.12	0
		36	0	21.23	21.38	21.23	1
		36	19	21.17	21.27	21.16	1
		36	39	20.97	21.14	20.97	1
		75	0	21.02	21.22	21.09	1
15M	16QAM	1	0	20.76	20.92	20.68	1
		1	37	20.52	20.82	20.56	1
		1	74	20.63	20.79	20.67	1
		36	0	20.09	20.37	20.08	2
		36	19	20.13	20.28	20.12	2
		36	39	19.77	20.05	19.76	2
		75	0	19.88	20.15	19.94	2
BW	MCS Index	Channel		26740	26865	26990	3GPP MPR
		Frequency (MHz)		819	831.5	844	
		10M	QPSK	1	0	22.21	
1	24			22.14	22.34	22.15	0
1	49			22.03	22.24	22.05	0
25	0			21.19	21.37	21.16	1
25	12			21.14	21.23	21.16	1
25	25			20.87	21.08	20.97	1
50	0			20.93	21.15	21.00	1
10M	16QAM	1	0	20.73	20.90	20.66	1
		1	24	20.45	20.73	20.47	1
		1	49	20.57	20.75	20.61	1
		25	0	19.99	20.27	20.03	2
		25	12	20.04	20.23	20.10	2
		25	25	19.69	20.00	19.72	2
		50	0	19.85	20.10	19.92	2

LTE Conducted Power (Full)							
LTE Band 26							
BW	MCS Index	Channel		26715	26865	27015	3GPP MPR
		Frequency (MHz)		816.5	831.5	846.5	
5M	QPSK	1	0	22.16	22.35	22.23	0
		1	12	22.17	22.33	22.21	0
		1	24	21.98	22.32	22.10	0
		12	0	21.18	21.38	21.17	1
		12	6	21.12	21.20	21.06	1
		12	13	20.88	21.07	20.89	1
		25	0	21.00	21.16	21.05	1
5M	16QAM	1	0	20.72	20.87	20.65	1
		1	12	20.46	20.80	20.46	1
		1	24	20.55	20.74	20.63	1
		12	0	20.03	20.28	20.01	2
		12	6	20.10	20.19	20.03	2
		12	13	19.70	19.98	19.73	2
		25	0	19.84	20.14	19.87	2
BW	MCS Index	Channel		26705	26865	27025	3GPP MPR
		Frequency (MHz)		815.5	831.5	847.5	
3M	QPSK	1	0	22.15	22.32	22.17	0
		1	7	22.03	22.20	22.12	0
		1	14	21.94	22.26	22.02	0
		8	0	21.15	21.24	21.18	1
		8	3	21.02	21.20	21.10	1
		8	7	20.86	21.05	20.83	1
		15	0	20.90	21.16	21.04	1
3M	16QAM	1	0	20.67	20.82	20.53	1
		1	7	20.43	20.73	20.43	1
		1	14	20.48	20.73	20.59	1
		8	0	20.01	20.29	19.96	2
		8	3	20.05	20.17	19.99	2
		8	7	19.67	19.91	19.66	2
		15	0	19.77	20.00	19.86	2



LTE Conducted Power (Full)							
LTE Band 26							
BW	MCS Index	Channel		26697	26865	27033	3GPP MPR
		Frequency (MHz)		814.7	831.5	848.3	
1.4M	QPSK	1	0	22.08	22.22	22.06	0
		1	2	22.01	22.14	22.12	0
		1	5	21.80	22.11	21.97	0
		3	0	22.01	22.16	22.11	0
		3	1	21.89	22.17	22.10	0
		3	3	21.84	21.97	21.74	0
		6	0	20.82	21.10	20.90	1
1.4M	16QAM	1	0	20.66	20.71	20.39	1
		1	2	20.34	20.61	20.29	1
		1	5	20.46	20.64	20.46	1
		3	0	20.95	21.27	20.81	1
		3	1	20.93	21.16	20.90	1
		3	3	20.60	20.90	20.52	1
		6	0	19.70	19.99	19.75	2

LTE Conducted Power (Full)							
LTE Band 66							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		132072	132322	132572	
		Frequency (MHz)		1720	1745	1770	
20M	QPSK	1	0	21.16	21.37	21.25	0
		1	50	21.11	21.32	21.21	0
		1	99	21.08	21.29	21.22	0
		50	0	20.29	20.48	20.41	1
		50	25	20.17	20.36	20.27	1
		50	50	20.16	20.29	20.22	1
		100	0	20.17	20.38	20.31	1
20M	16QAM	1	0	19.93	20.08	19.98	1
		1	50	19.84	20.03	19.93	1
		1	99	19.66	19.92	19.80	1
		50	0	19.24	19.47	19.34	2
		50	25	19.26	19.42	19.37	2
		50	50	19.18	19.39	19.30	2
		100	0	19.13	19.34	19.21	2
BW	MCS Index	Channel		132047	132322	132597	3GPP MPR
		Frequency (MHz)		1717.5	1745	1772.5	
15M	QPSK	1	0	21.16	21.34	21.15	0
		1	37	21.08	21.22	21.21	0
		1	74	21.01	21.24	21.20	0
		36	0	20.21	20.45	20.38	1
		36	19	20.11	20.27	20.25	1
		36	39	20.15	20.27	20.16	1
		75	0	20.14	20.37	20.23	1
15M	16QAM	1	0	19.84	19.99	19.90	1
		1	37	19.76	19.93	19.92	1
		1	74	19.63	19.85	19.79	1
		36	0	19.18	19.43	19.29	2
		36	19	19.21	19.39	19.27	2
		36	39	19.12	19.32	19.26	2
		75	0	19.11	19.30	19.15	2



LTE Conducted Power (Full)							
LTE Band 66							
BW	MCS Index	Channel		132022	132322	132622	3GPP MPR
		Frequency (MHz)		1715	1745	1775	
10M	QPSK	1	0	21.14	21.31	21.25	0
		1	24	21.10	21.26	21.12	0
		1	49	21.04	21.23	21.18	0
		25	0	20.26	20.42	20.39	1
		25	12	20.08	20.36	20.21	1
		25	25	20.14	20.24	20.22	1
		50	0	20.17	20.33	20.21	1
10M	16QAM	1	0	19.91	20.03	19.96	1
		1	24	19.84	19.96	19.86	1
		1	49	19.60	19.84	19.70	1
		25	0	19.18	19.44	19.25	2
		25	12	19.22	19.33	19.37	2
		25	25	19.13	19.36	19.28	2
		50	0	19.08	19.29	19.19	2
BW	MCS Index	Channel		131997	132322	132647	3GPP MPR
		Frequency (MHz)		1712.5	1745	1777.5	
5M	QPSK	1	0	21.08	21.27	21.15	0
		1	12	21.02	21.23	21.17	0
		1	24	21.03	21.29	21.13	0
		12	0	20.19	20.39	20.33	1
		12	6	20.16	20.30	20.17	1
		12	13	20.10	20.28	20.15	1
		25	0	20.10	20.29	20.30	1
5M	16QAM	1	0	19.93	20.01	19.96	1
		1	12	19.84	20.01	19.83	1
		1	24	19.65	19.84	19.73	1
		12	0	19.23	19.42	19.28	2
		12	6	19.20	19.38	19.27	2
		12	13	19.18	19.31	19.23	2
		25	0	19.08	19.34	19.14	2

LTE Conducted Power (Full)							
LTE Band 66							
BW	MCS Index	Channel		131987	132322	132657	3GPP MPR
		Frequency (MHz)		1711.5	1745	1778.5	
3M	QPSK	1	0	21.09	21.23	21.11	0
		1	7	21.00	21.23	21.12	0
		1	14	20.95	21.22	21.11	0
		8	0	20.20	20.38	20.32	1
		8	3	20.11	20.29	20.14	1
		8	7	20.02	20.24	20.11	1
3M	16QAM	15	0	20.05	20.32	20.20	1
		1	0	19.82	20.00	19.84	1
		1	7	19.71	19.88	19.79	1
		1	14	19.55	19.82	19.72	1
		8	0	19.18	19.42	19.23	2
		8	3	19.21	19.35	19.30	2
3M	16QAM	8	7	19.05	19.25	19.17	2
		15	0	19.06	19.20	19.06	2
BW	MCS Index	Channel		131979	132322	132665	3GPP MPR
		Frequency (MHz)		1710.7	1745	1779.3	
1.4M	QPSK	1	0	20.97	21.19	21.10	0
		1	2	20.98	21.13	21.01	0
		1	5	20.81	21.16	21.04	0
		3	0	21.07	21.33	21.20	0
		3	1	20.94	21.11	21.08	0
		3	3	21.01	21.08	21.17	0
1.4M	16QAM	6	0	20.01	20.10	20.14	1
		1	0	19.77	19.83	19.83	1
		1	2	19.61	19.95	19.78	1
		1	5	19.42	19.79	19.68	1
		3	0	20.00	20.29	20.18	1
		3	1	20.09	20.16	20.14	1
1.4M	16QAM	3	3	20.08	20.17	20.12	1
		6	0	18.97	19.06	19.02	2



Conducted Power (Full)			
WLAN2.4GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11b	1	2412	15.16
	6	2437	14.75
	11	2462	15.22
802.11g	1	2412	10.33
	6	2437	10.4
	11	2462	10.66
802.11n HT20	1	2412	9.95
	6	2437	9.96
	11	2462	9.96
802.11n HT40	3	2422	10.78
	6	2437	10.86
	9	2452	10.98



Conducted Power (Full)			
Bluetooth Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
BR / EDR	0	2402	<b>11.66</b>
	39	2441	11.33
	78	2480	11.04



Conducted Power (Full)			
WLAN 5.2GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	36	5180	9.88
	40	5200	13.72
	44	5220	13.71
	48	5240	13.7
802.11n HT20	36	5180	10.19
	40	5200	13.33
	44	5220	13.55
	48	5240	13.65
802.11n HT40	38	5190	4.33
	46	5230	11.61



**BUREAU**  
**VERITAS**

## **Appendix F. SAR Test Result**

SAR Results for Extremity Exposure Condition.

Note:

1. SAR testing for WLAN was performed on the maximum power mode.
2. SAR testing for LTE was performed on the maximum power mode.
3. The “< 0.001” means there is no SAR value or the SAR is too low to be measured.

### Limbs SAR Test Result

System & Position								DUT Configuration		SAR						
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
1	GSM850	GPRS10	Front Face	0	251				-	1.00	29.50	29.37	1.03	0.18	0.11	0.11
	GSM850	GPRS10	Rear Face	0	251				-	1.00	29.50	29.37	1.03	-0.04	0.521	0.54
	GSM850	GPRS10	Left Side	0	251				-	1.00	29.50	29.37	1.03	0.17	0.432	0.44
	GSM850	GPRS10	Right Side	0	251				-	1.00	29.50	29.37	1.03	-0.12	0.134	0.14
	GSM850	GPRS10	Top Side	0	251				-	1.00	29.50	29.37	1.03	-0.16	0.16	0.16
	GSM850	GPRS10	Top Curve Side	0	251				-	1.00	29.50	29.37	1.03	0.07	0.204	0.21
	GSM850	GPRS10	Bottom Side	0	251				-	1.00	29.50	29.37	1.03	0	0	0.00
	GSM850	GPRS10	Bottom Curve Side	0	251				-	1.00	29.50	29.37	1.03	0	0	0.00
	GSM850	GPRS10	Rear Face	0	128				-	1.00	29.50	28.67	1.21	-0.1	0.436	0.53
	GSM850	GPRS10	Rear Face	0	189				-	1.00	29.50	29.17	1.08	-0.12	0.424	0.46
	GSM1900	GPRS12	Front Face	0	512				-	1.00	25.50	25.21	1.07	-0.13	0.106	0.11
	GSM1900	GPRS12	Rear Face	0	512				-	1.00	25.50	25.21	1.07	-0.05	0.964	1.03
	GSM1900	GPRS12	Left Side	0	512				-	1.00	25.50	25.21	1.07	-0.16	0.275	0.29
	GSM1900	GPRS12	Right Side	0	512				-	1.00	25.50	25.21	1.07	-0.04	0.168	0.18
	GSM1900	GPRS12	Top Side	0	512				-	1.00	25.50	25.21	1.07	-0.18	0.681	0.73
	GSM1900	GPRS12	Top Curve Side	0	512				-	1.00	25.50	25.21	1.07	-0.14	1.04	1.11
	GSM1900	GPRS12	Bottom Side	0	512				-	1.00	25.50	25.21	1.07	0	<0.001	0.00
	GSM1900	GPRS12	Bottom Curve Side	0	512				-	1.00	25.50	25.21	1.07	0	<0.001	0.00
	GSM1900	GPRS12	Top Curve Side	0	661				-	1.00	25.50	24.78	1.18	0.15	1	1.18
2	GSM1900	GPRS12	Top Curve Side	0	810				-	1.00	25.50	24.25	1.33	0.19	1.12	1.49
	WCDMA II	RMC12.2K	Front Face	0	9262				-	1.00	20.50	20.09	1.10	0.18	0.133	0.15
	WCDMA II	RMC12.2K	Rear Face	0	9262				-	1.00	20.50	20.09	1.10	-0.09	1.16	1.28
	WCDMA II	RMC12.2K	Left Side	0	9262				-	1.00	20.50	20.09	1.10	0.17	0.364	0.40
	WCDMA II	RMC12.2K	Right Side	0	9262				-	1.00	20.50	20.09	1.10	0.09	0.195	0.21
	WCDMA II	RMC12.2K	Top Side	0	9262				-	1.00	20.50	20.09	1.10	0.17	1.12	1.23
	WCDMA II	RMC12.2K	Top Curve Side	0	9262				-	1.00	20.50	20.09	1.10	0.05	1.4	1.54
	WCDMA II	RMC12.2K	Bottom Side	0	9262				-	1.00	20.50	20.09	1.10	0	<0.001	0.00
	WCDMA II	RMC12.2K	Bottom Curve Side	0	9262				-	1.00	20.50	20.09	1.10	0.01	0.025	0.03
3	WCDMA II	RMC12.2K	Top Curve Side	0	9400				-	1.00	20.50	19.97	1.13	-0.07	1.45	1.64
	WCDMA II	RMC12.2K	Top Curve Side	0	9538				-	1.00	20.50	19.81	1.17	0.15	1.26	1.47

### Limbs SAR Test Result

System & Position								DUT Configuration		SAR						
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	WCDMA IV	RMC12.2K	Front Face	0	1312				-	1.00	21.50	21.31	1.04	0.11	0.237	0.25
	WCDMA IV	RMC12.2K	Rear Face	0	1312				-	1.00	21.50	21.31	1.04	-0.03	1.53	1.59
	WCDMA IV	RMC12.2K	Left Side	0	1312				-	1.00	21.50	21.31	1.04	-0.11	0.57	0.59
	WCDMA IV	RMC12.2K	Right Side	0	1312				-	1.00	21.50	21.31	1.04	-0.04	0.103	0.11
	WCDMA IV	RMC12.2K	Top Side	0	1312				-	1.00	21.50	21.31	1.04	0.03	1.31	1.36
4	WCDMA IV	RMC12.2K	Top Curve Side	0	1312				-	1.00	21.50	21.31	1.04	-0.11	1.67	1.74
	WCDMA IV	RMC12.2K	Bottom Side	0	1312				-	1.00	21.50	21.31	1.04	0	<0.001	0.00
	WCDMA IV	RMC12.2K	Bottom Curve Side	0	1312				-	1.00	21.50	21.31	1.04	0.03	0.04	0.04
	WCDMA IV	RMC12.2K	Top Curve Side	0	1413				-	1.00	21.50	21.27	1.05	0.05	1.61	1.69
	WCDMA IV	RMC12.2K	Top Curve Side	0	1513				-	1.00	21.50	21.15	1.08	0.14	1.55	1.67
	WCDMA V	RMC12.2K	Front Face	0	4132				-	1.00	23.00	22.42	1.14	0.15	0.057	0.06
5	WCDMA V	RMC12.2K	Rear Face	0	4132				-	1.00	23.00	22.42	1.14	0.02	0.801	0.91
	WCDMA V	RMC12.2K	Left Side	0	4132				-	1.00	23.00	22.42	1.14	-0.11	0.702	0.80
	WCDMA V	RMC12.2K	Right Side	0	4132				-	1.00	23.00	22.42	1.14	0.19	0.204	0.23
	WCDMA V	RMC12.2K	Top Side	0	4132				-	1.00	23.00	22.42	1.14	0.15	0.261	0.30
	WCDMA V	RMC12.2K	Top Curve Side	0	4132				-	1.00	23.00	22.42	1.14	0.12	0.431	0.49
	WCDMA V	RMC12.2K	Bottom Side	0	4132				-	1.00	23.00	22.42	1.14	0	<0.001	0.00
	WCDMA V	RMC12.2K	Bottom Curve Side	0	4132				-	1.00	23.00	22.42	1.14	0	<0.001	0.00
	WCDMA V	RMC12.2K	Rear Face	0	4182				-	1.00	23.00	22.32	1.17	0.17	0.756	0.88
	WCDMA V	RMC12.2K	Rear Face	0	4233				-	1.00	23.00	22.41	1.15	-0.15	0.691	0.79
	LTE 2	QPSK20M	Front Face	0	18900	1	0		-	1.00	20.50	20.43	1.02	-0.1	0.145	0.15
	LTE 2	QPSK20M	Rear Face	0	18900	1	0		-	1.00	20.50	20.43	1.02	0.03	1.15	1.17
	LTE 2	QPSK20M	Left Side	0	18900	1	0		-	1.00	20.50	20.43	1.02	0.06	0.409	0.42
	LTE 2	QPSK20M	Right Side	0	18900	1	0		-	1.00	20.50	20.43	1.02	0.16	0.217	0.22
	LTE 2	QPSK20M	Top Side	0	18900	1	0		-	1.00	20.50	20.43	1.02	-0.07	1.03	1.05
	LTE 2	QPSK20M	Top Curve Side	0	18900	1	0		-	1.00	20.50	20.43	1.02	-0.13	1.36	1.39
	LTE 2	QPSK20M	Bottom Side	0	18900	1	0		-	1.00	20.50	20.43	1.02	0	<0.001	0.00
	LTE 2	QPSK20M	Bottom Curve Side	0	18900	1	0		-	1.00	20.50	20.43	1.02	0	<0.001	0.00
	LTE 2	QPSK20M	Front Face	0	18900	50	0		-	1.00	19.50	19.49	1.00	-0.16	0.11	0.11
	LTE 2	QPSK20M	Rear Face	0	18900	50	0		-	1.00	19.50	19.49	1.00	-0.12	0.962	0.96
	LTE 2	QPSK20M	Left Side	0	18900	50	0		-	1.00	19.50	19.49	1.00	-0.06	0.315	0.32
	LTE 2	QPSK20M	Right Side	0	18900	50	0		-	1.00	19.50	19.49	1.00	0.04	0.181	0.18
	LTE 2	QPSK20M	Top Side	0	18900	50	0		-	1.00	19.50	19.49	1.00	0.17	0.884	0.88
	LTE 2	QPSK20M	Top Curve Side	0	18900	50	0		-	1.00	19.50	19.49	1.00	0.15	1.09	1.09
	LTE 2	QPSK20M	Bottom Side	0	18900	50	0		-	1.00	19.50	19.49	1.00	0	<0.001	0.00
	LTE 2	QPSK20M	Bottom Curve Side	0	18900	50	0		-	1.00	19.50	19.49	1.00	0	<0.001	0.00
6	LTE 2	QPSK20M	Top Curve Side	0	18700	1	0		-	1.00	20.50	20.38	1.03	-0.07	1.56	1.61
	LTE 2	QPSK20M	Top Curve Side	0	19100	1	0		-	1.00	20.50	20.35	1.04	0.02	1.37	1.42



### Limbs SAR Test Result

System & Position								DUT Configuration	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	LTE 4	QPSK20M	Front Face	0	20175	1	0		-	1.00	21.50	21.13	1.09	0.12	0.201	0.22
7	LTE 4	QPSK20M	Rear Face	0	20175	1	0		-	1.00	21.50	21.13	1.09	-0.05	1.93	2.10
	LTE 4	QPSK20M	Left Side	0	20175	1	0		-	1.00	21.50	21.13	1.09	-0.13	0.545	0.59
	LTE 4	QPSK20M	Right Side	0	20175	1	0		-	1.00	21.50	21.13	1.09	0.09	0.108	0.12
	LTE 4	QPSK20M	Top Side	0	20175	1	0		-	1.00	21.50	21.13	1.09	-0.04	0.791	0.86
	LTE 4	QPSK20M	Top Curve Side	0	20175	1	0		-	1.00	21.50	21.13	1.09	0.05	1.65	1.80
	LTE 4	QPSK20M	Bottom Side	0	20175	1	0		-	1.00	21.50	21.13	1.09	0	<0.001	0.00
	LTE 4	QPSK20M	Bottom Curve Side	0	20175	1	0		-	1.00	21.50	21.13	1.09	0	<0.001	0.00
	LTE 4	QPSK20M	Front Face	0	20175	50	0		-	1.00	20.50	19.85	1.16	-0.14	0.16	0.19
	LTE 4	QPSK20M	Rear Face	0	20175	50	0		-	1.00	20.50	19.85	1.16	0.17	1.48	1.72
	LTE 4	QPSK20M	Left Side	0	20175	50	0		-	1.00	20.50	19.85	1.16	0.06	0.387	0.45
	LTE 4	QPSK20M	Right Side	0	20175	50	0		-	1.00	20.50	19.85	1.16	-0.11	0.092	0.11
	LTE 4	QPSK20M	Top Side	0	20175	50	0		-	1.00	20.50	19.85	1.16	0.18	0.697	0.81
	LTE 4	QPSK20M	Top Curve Side	0	20175	50	0		-	1.00	20.50	19.85	1.16	0.07	1.35	1.57
	LTE 4	QPSK20M	Bottom Side	0	20175	50	0		-	1.00	20.50	19.85	1.16	0	<0.001	0.00
	LTE 4	QPSK20M	Bottom Curve Side	0	20175	50	0		-	1.00	20.50	19.85	1.16	0	<0.001	0.00
	LTE 4	QPSK20M	Rear Face	0	20175	100	0		-	1.00	20.50	19.79	1.18	0.17	1.48	1.75
	LTE 4	QPSK20M	Rear Face	0	20050	1	0		-	1.00	21.50	20.85	1.16	-0.03	1.69	1.96
	LTE 4	QPSK20M	Rear Face	0	20300	1	0		-	1.00	21.50	21.11	1.09	-0.08	1.82	1.98
	LTE 5	QPSK10M	Front Face	0	20600	1	0		-	1.00	23.50	23.00	1.12	-0.03	0.118	0.13
8	LTE 5	QPSK10M	Rear Face	0	20600	1	0		-	1.00	23.50	23.00	1.12	-0.11	0.937	1.05
	LTE 5	QPSK10M	Left Side	0	20600	1	0		-	1.00	23.50	23.00	1.12	0.02	0.485	0.54
	LTE 5	QPSK10M	Right Side	0	20600	1	0		-	1.00	23.50	23.00	1.12	-0.01	0.113	0.13
	LTE 5	QPSK10M	Top Side	0	20600	1	0		-	1.00	23.50	23.00	1.12	-0.06	0.18	0.20
	LTE 5	QPSK10M	Top Curve Side	0	20600	1	0		-	1.00	23.50	23.00	1.12	0.19	0.463	0.52
	LTE 5	QPSK10M	Bottom Side	0	20600	1	0		-	1.00	23.50	23.00	1.12	0	<0.001	0.00
	LTE 5	QPSK10M	Bottom Curve Side	0	20600	1	0		-	1.00	23.50	23.00	1.12	0	<0.001	0.00
	LTE 5	QPSK10M	Front Face	0	20600	25	0		-	1.00	22.50	22.27	1.05	-0.03	0.094	0.10
	LTE 5	QPSK10M	Rear Face	0	20600	25	0		-	1.00	22.50	22.27	1.05	0.05	0.721	0.76
	LTE 5	QPSK10M	Left Side	0	20600	25	0		-	1.00	22.50	22.27	1.05	-0.15	0.423	0.44
	LTE 5	QPSK10M	Right Side	0	20600	25	0		-	1.00	22.50	22.27	1.05	0.04	0.085	0.09
	LTE 5	QPSK10M	Top Side	0	20600	25	0		-	1.00	22.50	22.27	1.05	-0.06	0.145	0.15
	LTE 5	QPSK10M	Top Curve Side	0	20600	25	0		-	1.00	22.50	22.27	1.05	-0.01	0.372	0.39
	LTE 5	QPSK10M	Bottom Side	0	20600	25	0		-	1.00	22.50	22.27	1.05	0	<0.001	0.00
	LTE 5	QPSK10M	Bottom Curve Side	0	20600	25	0		-	1.00	22.50	22.27	1.05	0	<0.001	0.00
	LTE 5	QPSK10M	Rear Face	0	20450	1	0		-	1.00	23.50	22.95	1.14	-0.11	0.774	0.88
	LTE 5	QPSK10M	Rear Face	0	20525	1	0		-	1.00	23.50	22.86	1.16	-0.19	0.741	0.86



Limbs SAR Test Result																
System & Position								DUT Configuration		SAR						
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	LTE 7	QPSK20M	Front Face	0	20850	1	0		-	1.00	21.00	20.29	1.18	0.04	0.161	0.19
9	LTE 7	QPSK20M	Rear Face	0	20850	1	0		-	1.00	21.00	20.29	1.18	-0.16	0.753	0.89
	LTE 7	QPSK20M	Left Side	0	20850	1	0		-	1.00	21.00	20.29	1.18	-0.12	0.291	0.34
	LTE 7	QPSK20M	Right Side	0	20850	1	0		-	1.00	21.00	20.29	1.18	-0.11	0.11	0.13
	LTE 7	QPSK20M	Top Side	0	20850	1	0		-	1.00	21.00	20.29	1.18	-0.06	0.399	0.47
	LTE 7	QPSK20M	Top Curve Side	0	20850	1	0		-	1.00	21.00	20.29	1.18	-0.01	0.479	0.57
	LTE 7	QPSK20M	Bottom Side	0	20850	1	0		-	1.00	21.00	20.29	1.18	0	<0.001	0.00
	LTE 7	QPSK20M	Bottom Curve Side	0	20850	1	0		-	1.00	21.00	20.29	1.18	0	<0.001	0.00
	LTE 7	QPSK20M	Front Face	0	20850	50	0		-	1.00	20.00	19.26	1.19	0.04	0.122	0.15
	LTE 7	QPSK20M	Rear Face	0	20850	50	0		-	1.00	20.00	19.26	1.19	-0.17	0.744	0.89
	LTE 7	QPSK20M	Left Side	0	20850	50	0		-	1.00	20.00	19.26	1.19	-0.11	0.222	0.26
	LTE 7	QPSK20M	Right Side	0	20850	50	0		-	1.00	20.00	19.26	1.19	-0.07	0.091	0.11
	LTE 7	QPSK20M	Top Side	0	20850	50	0		-	1.00	20.00	19.26	1.19	0.11	0.321	0.38
	LTE 7	QPSK20M	Top Curve Side	0	20850	50	0		-	1.00	20.00	19.26	1.19	0.14	0.422	0.50
	LTE 7	QPSK20M	Bottom Side	0	20850	50	0		-	1.00	20.00	19.26	1.19	0	<0.001	0.00
	LTE 7	QPSK20M	Bottom Curve Side	0	20850	50	0		-	1.00	20.00	19.26	1.19	0	<0.001	0.00
	LTE 7	QPSK20M	Rear Face	0	21100	1	0		-	1.00	21.00	20.19	1.21	-0.04	0.679	0.82
	LTE 7	QPSK20M	Rear Face	0	21350	1	0		-	1.00	21.00	20.21	1.20	0.19	0.572	0.69
	LTE 12	QPSK10M	Front Face	0	23060	1	0		-	1.00	23.00	22.53	1.11	-0.15	0.071	0.08
10	LTE 12	QPSK10M	Rear Face	0	23060	1	0		-	1.00	23.00	22.53	1.11	-0.09	0.903	1.00
	LTE 12	QPSK10M	Left Side	0	23060	1	0		-	1.00	23.00	22.53	1.11	-0.15	0.593	0.66
	LTE 12	QPSK10M	Right Side	0	23060	1	0		-	1.00	23.00	22.53	1.11	-0.1	0.107	0.12
	LTE 12	QPSK10M	Top Side	0	23060	1	0		-	1.00	23.00	22.53	1.11	0.18	0.123	0.14
	LTE 12	QPSK10M	Top Curve Side	0	23060	1	0		-	1.00	23.00	22.53	1.11	-0.02	0.284	0.32
	LTE 12	QPSK10M	Bottom Side	0	23060	1	0		-	1.00	23.00	22.53	1.11	0	<0.001	0.00
	LTE 12	QPSK10M	Bottom Curve Side	0	23060	1	0		-	1.00	23.00	22.53	1.11	0	<0.001	0.00
	LTE 12	QPSK10M	Front Face	0	23060	25	12		-	1.00	22.00	21.32	1.17	-0.07	0.061	0.07
	LTE 12	QPSK10M	Rear Face	0	23060	25	12		-	1.00	22.00	21.32	1.17	-0.15	0.84	0.98
	LTE 12	QPSK10M	Left Side	0	23060	25	12		-	1.00	22.00	21.32	1.17	-0.15	0.465	0.54
	LTE 12	QPSK10M	Right Side	0	23060	25	12		-	1.00	22.00	21.32	1.17	-0.06	0.075	0.09
	LTE 12	QPSK10M	Top Side	0	23060	25	12		-	1.00	22.00	21.32	1.17	0.03	0.091	0.11
	LTE 12	QPSK10M	Top Curve Side	0	23060	25	12		-	1.00	22.00	21.32	1.17	0.09	0.215	0.25
	LTE 12	QPSK10M	Bottom Side	0	23060	25	12		-	1.00	22.00	21.32	1.17	0	<0.001	0.00
	LTE 12	QPSK10M	Bottom Curve Side	0	23060	25	12		-	1.00	22.00	21.32	1.17	0	<0.001	0.00
	LTE 12	QPSK10M	Rear Face	0	23095	1	0		-	1.00	23.00	22.39	1.15	-0.02	0.863	0.99
	LTE 12	QPSK10M	Rear Face	0	23130	1	0		-	1.00	23.00	22.28	1.18	0.07	0.814	0.96

### Limbs SAR Test Result

System & Position								DUT Configuration	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	LTE 13	QPSK10M	Front Face	0	23230	1	0		-	1.00	23.00	22.38	1.15	0.05	0.127	0.15
11	LTE 13	QPSK10M	Rear Face	0	23230	1	0		-	1.00	23.00	22.38	1.15	-0.06	0.945	1.09
	LTE 13	QPSK10M	Left Side	0	23230	1	0		-	1.00	23.00	22.38	1.15	-0.03	0.626	0.72
	LTE 13	QPSK10M	Right Side	0	23230	1	0		-	1.00	23.00	22.38	1.15	-0.18	0.123	0.14
	LTE 13	QPSK10M	Top Side	0	23230	1	0		-	1.00	23.00	22.38	1.15	0.08	0.169	0.19
	LTE 13	QPSK10M	Top Curve Side	0	23230	1	0		-	1.00	23.00	22.38	1.15	0.12	0.35	0.40
	LTE 13	QPSK10M	Bottom Side	0	23230	1	0		-	1.00	23.00	22.38	1.15	0	<0.001	0.00
	LTE 13	QPSK10M	Bottom Curve Side	0	23230	1	0		-	1.00	23.00	22.38	1.15	0	<0.001	0.00
	LTE 13	QPSK10M	Front Face	0	23230	25	0		-	1.00	22.00	21.11	1.23	-0.18	0.104	0.13
	LTE 13	QPSK10M	Rear Face	0	23230	25	0		-	1.00	22.00	21.11	1.23	-0.14	0.735	0.90
	LTE 13	QPSK10M	Left Side	0	23230	25	0		-	1.00	22.00	21.11	1.23	0.14	0.513	0.63
	LTE 13	QPSK10M	Right Side	0	23230	25	0		-	1.00	22.00	21.11	1.23	-0.07	0.098	0.12
	LTE 13	QPSK10M	Top Side	0	23230	25	0		-	1.00	22.00	21.11	1.23	0.19	0.146	0.18
	LTE 13	QPSK10M	Top Curve Side	0	23230	25	0		-	1.00	22.00	21.11	1.23	-0.04	0.263	0.32
	LTE 13	QPSK10M	Bottom Side	0	23230	25	0		-	1.00	22.00	21.11	1.23	0	<0.001	0.00
	LTE 13	QPSK10M	Bottom Curve Side	0	23230	25	0		-	1.00	22.00	21.11	1.23	0	<0.001	0.00
	LTE 17	QPSK10M	Front Face	0	23780	1	0		-	1.00	22.50	22.41	1.02	0.01	0.071	0.07
12	LTE 17	QPSK10M	Rear Face	0	23780	1	0		-	1.00	22.50	22.41	1.02	-0.1	0.947	0.97
	LTE 17	QPSK10M	Left Side	0	23780	1	0		-	1.00	22.50	22.41	1.02	0.04	0.714	0.73
	LTE 17	QPSK10M	Right Side	0	23780	1	0		-	1.00	22.50	22.41	1.02	0.17	0.089	0.09
	LTE 17	QPSK10M	Top Side	0	23780	1	0		-	1.00	22.50	22.41	1.02	0.02	0.119	0.12
	LTE 17	QPSK10M	Top Curve Side	0	23780	1	0		-	1.00	22.50	22.41	1.02	0.11	0.298	0.30
	LTE 17	QPSK10M	Bottom Side	0	23780	1	0		-	1.00	22.50	22.41	1.02	0	<0.001	0.00
	LTE 17	QPSK10M	Bottom Curve Side	0	23780	1	0		-	1.00	22.50	22.41	1.02	0	<0.001	0.00
	LTE 17	QPSK10M	Front Face	0	23780	25	0		-	1.00	21.50	21.07	1.10	-0.02	0.058	0.06
	LTE 17	QPSK10M	Rear Face	0	23780	25	0		-	1.00	21.50	21.07	1.10	-0.18	0.835	0.92
	LTE 17	QPSK10M	Left Side	0	23780	25	0		-	1.00	21.50	21.07	1.10	0.17	0.445	0.49
	LTE 17	QPSK10M	Right Side	0	23780	25	0		-	1.00	21.50	21.07	1.10	0	0.068	0.07
	LTE 17	QPSK10M	Top Side	0	23780	25	0		-	1.00	21.50	21.07	1.10	-0.11	0.065	0.07
	LTE 17	QPSK10M	Top Curve Side	0	23780	25	0		-	1.00	21.50	21.07	1.10	-0.09	0.208	0.23
	LTE 17	QPSK10M	Bottom Side	0	23780	25	0		-	1.00	21.50	21.07	1.10	0	<0.001	0.00
	LTE 17	QPSK10M	Bottom Curve Side	0	23780	25	0		-	1.00	21.50	21.07	1.10	0	<0.001	0.00
	LTE 17	QPSK10M	Rear Face	0	23790	1	0		-	1.00	22.50	22.38	1.03	-0.16	0.906	0.93
	LTE 17	QPSK10M	Rear Face	0	23800	1	0		-	1.00	22.50	22.34	1.04	0.08	0.919	0.96

### Limbs SAR Test Result

System & Position								DUT Configuration	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	LTE 25	QPSK20M	Front Face	0	26365	1	0		-	1.00	21.50	21.27	1.05	0.07	0.176	0.18
	LTE 25	QPSK20M	Rear Face	0	26365	1	0		-	1.00	21.50	21.27	1.05	-0.15	1.54	1.62
	LTE 25	QPSK20M	Left Side	0	26365	1	0		-	1.00	21.50	21.27	1.05	0.13	0.51	0.54
	LTE 25	QPSK20M	Right Side	0	26365	1	0		-	1.00	21.50	21.27	1.05	-0.11	0.276	0.29
	LTE 25	QPSK20M	Top Side	0	26365	1	0		-	1.00	21.50	21.27	1.05	-0.04	1.29	1.35
	LTE 25	QPSK20M	Top Curve Side	0	26365	1	0		-	1.00	21.50	21.27	1.05	0.15	1.76	1.85
	LTE 25	QPSK20M	Bottom Side	0	26365	1	0		-	1.00	21.50	21.27	1.05	0	<0.001	0.00
	LTE 25	QPSK20M	Bottom Curve Side	0	26365	1	0		-	1.00	21.50	21.27	1.05	0	<0.001	0.00
	LTE 25	QPSK20M	Front Face	0	26365	50	0		-	1.00	20.50	20.32	1.04	-0.06	0.142	0.15
	LTE 25	QPSK20M	Rear Face	0	26365	50	0		-	1.00	20.50	20.32	1.04	-0.19	1.15	1.20
	LTE 25	QPSK20M	Left Side	0	26365	50	0		-	1.00	20.50	20.32	1.04	-0.19	0.453	0.47
	LTE 25	QPSK20M	Right Side	0	26365	50	0		-	1.00	20.50	20.32	1.04	0.13	0.237	0.25
	LTE 25	QPSK20M	Top Side	0	26365	50	0		-	1.00	20.50	20.32	1.04	-0.11	1.17	1.22
	LTE 25	QPSK20M	Top Curve Side	0	26365	50	0		-	1.00	20.50	20.32	1.04	-0.06	1.39	1.45
	LTE 25	QPSK20M	Bottom Side	0	26365	50	0		-	1.00	20.50	20.32	1.04	0	<0.001	0.00
	LTE 25	QPSK20M	Bottom Curve Side	0	26365	50	0		-	1.00	20.50	20.32	1.04	0	<0.001	0.00
13	LTE 25	QPSK20M	Top Curve Side	0	26140	1	50		-	1.00	21.50	21.17	1.08	-0.17	1.95	2.11
	LTE 25	QPSK20M	Top Curve Side	0	26590	1	0		-	1.00	21.50	21.13	1.09	-0.12	1.84	2.01
	LTE 26	QPSK15M	Front Face	0	26865	1	0		-	1.00	23.00	22.42	1.14	0.05	0.113	0.13
14	LTE 26	QPSK15M	Rear Face	0	26865	1	0		-	1.00	23.00	22.42	1.14	-0.09	0.837	0.95
	LTE 26	QPSK15M	Left Side	0	26865	1	0		-	1.00	23.00	22.42	1.14	-0.1	0.505	0.58
	LTE 26	QPSK15M	Right Side	0	26865	1	0		-	1.00	23.00	22.42	1.14	-0.09	0.167	0.19
	LTE 26	QPSK15M	Top Side	0	26865	1	0		-	1.00	23.00	22.42	1.14	0.05	0.176	0.20
	LTE 26	QPSK15M	Top Curve Side	0	26865	1	0		-	1.00	23.00	22.42	1.14	-0.08	0.25	0.29
	LTE 26	QPSK15M	Bottom Side	0	26865	1	0		-	1.00	23.00	22.42	1.14	0	<0.001	0.00
	LTE 26	QPSK15M	Bottom Curve Side	0	26865	1	0		-	1.00	23.00	22.42	1.14	0	<0.001	0.00
	LTE 26	QPSK15M	Front Face	0	26865	36	0		-	1.00	22.00	21.38	1.15	0.12	0.082	0.09
	LTE 26	QPSK15M	Rear Face	0	26865	36	0		-	1.00	22.00	21.38	1.15	0.19	0.674	0.78
	LTE 26	QPSK15M	Left Side	0	26865	36	0		-	1.00	22.00	21.38	1.15	0	0.353	0.41
	LTE 26	QPSK15M	Right Side	0	26865	36	0		-	1.00	22.00	21.38	1.15	0.17	0.12	0.14
	LTE 26	QPSK15M	Top Side	0	26865	36	0		-	1.00	22.00	21.38	1.15	-0.12	0.122	0.14
	LTE 26	QPSK15M	Top Curve Side	0	26865	36	0		-	1.00	22.00	21.38	1.15	0.16	0.198	0.23
	LTE 26	QPSK15M	Bottom Side	0	26865	36	0		-	1.00	22.00	21.38	1.15	0	<0.001	0.00
	LTE 26	QPSK15M	Bottom Curve Side	0	26865	36	0		-	1.00	22.00	21.38	1.15	0	<0.001	0.00
	LTE 26	QPSK15M	Rear Face	0	26765	1	0		-	1.00	23.00	22.21	1.20	0.03	0.792	0.95
	LTE 26	QPSK15M	Rear Face	0	26965	1	0		-	1.00	23.00	22.28	1.18	-0.07	0.803	0.95

### Limbs SAR Test Result

System & Position								DUT Configuration	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	LTE 66	QPSK20M	Front Face	0	132322	1	0		-	1.00	22.00	21.37	1.16	-0.13	0.223	0.26
	LTE 66	QPSK20M	Rear Face	0	132322	1	0		-	1.00	22.00	21.37	1.16	0.04	1.69	1.96
	LTE 66	QPSK20M	Left Side	0	132322	1	0		-	1.00	22.00	21.37	1.16	0.02	0.57	0.66
	LTE 66	QPSK20M	Right Side	0	132322	1	0		-	1.00	22.00	21.37	1.16	-0.07	0.106	0.12
	LTE 66	QPSK20M	Top Side	0	132322	1	0		-	1.00	22.00	21.37	1.16	-0.19	1.23	1.43
	LTE 66	QPSK20M	Top Curve Side	0	132322	1	0		-	1.00	22.00	21.37	1.16	-0.16	1.68	1.95
	LTE 66	QPSK20M	Bottom Side	0	132322	1	0		-	1.00	22.00	21.37	1.16	0	<0.001	0.00
	LTE 66	QPSK20M	Bottom Curve Side	0	132322	1	0		-	1.00	22.00	21.37	1.16	0	<0.001	0.00
	LTE 66	QPSK20M	Front Face	0	132322	50	0		-	1.00	21.00	20.48	1.13	0.06	0.181	0.20
	LTE 66	QPSK20M	Rear Face	0	132322	50	0		-	1.00	21.00	20.48	1.13	-0.15	1.54	1.74
	LTE 66	QPSK20M	Left Side	0	132322	50	0		-	1.00	21.00	20.48	1.13	-0.19	0.471	0.53
	LTE 66	QPSK20M	Right Side	0	132322	50	0		-	1.00	21.00	20.48	1.13	-0.08	0.085	0.10
	LTE 66	QPSK20M	Top Side	0	132322	50	0		-	1.00	21.00	20.48	1.13	-0.08	0.982	1.11
	LTE 66	QPSK20M	Top Curve Side	0	132322	50	0		-	1.00	21.00	20.48	1.13	0.08	1.46	1.65
	LTE 66	QPSK20M	Bottom Side	0	132322	50	0		-	1.00	21.00	20.48	1.13	0	<0.001	0.00
	LTE 66	QPSK20M	Bottom Curve Side	0	132322	50	0		-	1.00	21.00	20.48	1.13	0	<0.001	0.00
16	LTE 66	QPSK20M	Rear Face	0	132072	1	0		-	1.00	22.00	21.16	1.21	0.07	1.79	2.17
	LTE 66	QPSK20M	Rear Face	0	132572	1	0		-	1.00	22.00	21.25	1.19	0.09	1.63	1.94
	WLAN2.4G	802.11b	Front Face	0	11			Ant 0	97.62	1.02	15.50	15.22	1.07	0.13	0.092	0.10
	WLAN2.4G	802.11b	Rear Face	0	11			Ant 0	97.62	1.02	15.50	15.22	1.07	0.05	0.33	0.36
	WLAN2.4G	802.11b	Left Side	0	11			Ant 0	97.62	1.02	15.50	15.22	1.07	0.18	0.049	0.05
	WLAN2.4G	802.11b	Right Side	0	11			Ant 0	97.62	1.02	15.50	15.22	1.07	0.11	0.266	0.29
	WLAN2.4G	802.11b	Top Side	0	11			Ant 0	97.62	1.02	15.50	15.22	1.07	0.07	0.097	0.11
	WLAN2.4G	802.11b	Top Curve Side	0	11			Ant 0	97.62	1.02	15.50	15.22	1.07	-0.05	0.144	0.16
	WLAN2.4G	802.11b	Bottom Side	0	11			Ant 0	97.62	1.02	15.50	15.22	1.07	0	<0.001	0.00
	WLAN2.4G	802.11b	Bottom Curve Side	0	11			Ant 0	97.62	1.02	15.50	15.22	1.07	0	<0.001	0.00
17	WLAN2.4G	802.11b	Rear Face	0	1			Ant 0	97.62	1.02	15.50	15.16	1.08	-0.02	0.388	0.43
	WLAN2.4G	802.11b	Rear Face	0	6			Ant 0	97.62	1.02	15.50	14.75	1.19	0.01	0.225	0.27

### Limbs SAR Test Result

System & Position								DUT Configuration		SAR						
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	WLAN5.2G	802.11a	Front Face	0	40			Ant 0	87.32	1.15	14.00	13.72	1.07	-0.11	0.154	0.19
	WLAN5.2G	802.11a	Rear Face	0	40			Ant 0	87.32	1.15	14.00	13.72	1.07	-0.02	0.949	1.17
	WLAN5.2G	802.11a	Left Side	0	40			Ant 0	87.32	1.15	14.00	13.72	1.07	-0.15	0.037	0.05
18	WLAN5.2G	802.11a	Right Side	0	40			Ant 0	87.32	1.15	14.00	13.72	1.07	0.05	1.48	1.82
	WLAN5.2G	802.11a	Top Side	0	40			Ant 0	87.32	1.15	14.00	13.72	1.07	-0.16	0.459	0.56
	WLAN5.2G	802.11a	Top Curve Side	0	40			Ant 0	87.32	1.15	14.00	13.72	1.07	-0.1	0.516	0.63
	WLAN5.2G	802.11a	Bottom Side	0	40			Ant 0	87.32	1.15	14.00	13.72	1.07	0.16	0.012	0.01
	WLAN5.2G	802.11a	Bottom Curve Side	0	40			Ant 0	87.32	1.15	14.00	13.72	1.07	0.04	0.00837	0.01
	WLAN5.2G	802.11a	Right Side	0	36			Ant 0	87.32	1.15	10.00	9.88	1.03	0.01	0.451	0.53
	WLAN5.2G	802.11a	Right Side	0	44			Ant 0	87.32	1.15	14.00	13.71	1.07	0.03	1.22	1.50
	WLAN5.2G	802.11a	Right Side	0	48			Ant 0	87.32	1.15	14.00	13.70	1.07	-0.1	1.4	1.72
				0												
	BT	BR / EDR	Front Face	0	0			Ant 0	76.33	1.31	12.00	11.66	1.08	-0.13	0.024	0.03
19	BT	BR / EDR	Rear Face	0	0			Ant 0	76.33	1.31	12.00	11.66	1.08	-0.08	0.11	0.16
	BT	BR / EDR	Left Side	0	0			Ant 0	76.33	1.31	12.00	11.66	1.08	0.12	0.008	0.01
	BT	BR / EDR	Right Side	0	0			Ant 0	76.33	1.31	12.00	11.66	1.08	0.08	0.083	0.12
	BT	BR / EDR	Top Side	0	0			Ant 0	76.33	1.31	12.00	11.66	1.08	-0.06	0.021	0.03
	BT	BR / EDR	Top Curve Side	0	0			Ant 0	76.33	1.31	12.00	11.66	1.08	0.16	0.039	0.06
	BT	BR / EDR	Bottom Side	0	0			Ant 0	76.33	1.31	12.00	11.66	1.08	0	<0.001	0.00
	BT	BR / EDR	Bottom Curve Side	0	0			Ant 0	76.33	1.31	12.00	11.66	1.08	0	<0.001	0.00
	BT	BR / EDR	Rear Face	0	39			Ant 0	76.33	1.31	12.00	11.33	1.17	-0.03	0.08	0.12
	BT	BR / EDR	Rear Face	0	78			Ant 0	76.33	1.31	12.00	11.04	1.25	-0.16	0.072	0.12

## Appendix H. Analysis of Simultaneous Transmission.

The analysis of simultaneous transmission SAR are shown as below.

### <Possibilities of Simultaneous Transmission>

The simultaneous transmission possibilities for this device are listed as below.

Simultaneous TX Combination	Capable Transmit Configurations	Extremity Exposure Condition
A	MAX WWAN + MAX WLAN2.4G	Yes
B	MAX WWAN + MAX WLAN5G	Yes
C	MAX WWAN + BT_Ant 0	Yes

#### Notes

1. The WLAN and Bluetooth cannot transmit simultaneously.

Simultaneous Transmission SAR Evaluation (Extremity)								
Band	Position	1	2	3	4	A(1+2)	B(1+3)	C(1+4)
		Max WWAN	Max WLAN 2.4GHz	Max WLAN 5GHz	Max BT Ant 0	Summing result	Summing result	Summing result
		10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg
GSM850	Front Face	0.11	0.10	0.19	0.03	0.21	0.30	0.14
	Rear Face	0.54	0.43	1.17	0.16	0.97	1.71	0.70
	Left Side	0.44	0.05	0.05	0.01	0.49	0.49	0.45
	Right Side	0.14	0.29	1.82	0.12	0.43	1.96	0.26
	Top Side	0.16	0.11	0.56	0.03	0.27	0.72	0.19
	Top Curve Side	0.21	0.16	0.63	0.06	0.37	0.84	0.27
	Bottom Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
	Bottom Curve Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
GSM1900	Front Face	0.11	0.10	0.19	0.03	0.21	0.30	0.14
	Rear Face	1.03	0.43	1.17	0.16	1.46	2.20	1.19
	Left Side	0.29	0.05	0.05	0.01	0.34	0.34	0.30
	Right Side	0.18	0.29	1.82	0.12	0.47	2.00	0.30
	Top Side	0.73	0.11	0.56	0.03	0.84	1.29	0.76
	Top Curve Side	1.49	0.16	0.63	0.06	1.65	2.12	1.55
	Bottom Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
	Bottom Curve Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00



Simultaneous Transmission SAR Evaluation (Extremity)								
Band	Position	1	2	3	4	A(1+2)	B(1+3)	C(1+4)
		Max WWAN	Max WLAN 2.4GHz	Max WLAN 5GHz	Max BT Ant 0	Summing result	Summing result	Summing result
		10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg
WCDMA II	Front Face	0.15	0.10	0.19	0.03	0.25	0.34	0.18
	Rear Face	1.28	0.43	1.17	0.16	1.71	2.45	1.44
	Left Side	0.40	0.05	0.05	0.01	0.45	0.45	0.41
	Right Side	0.21	0.29	1.82	0.12	0.50	2.03	0.33
	Top Side	1.23	0.11	0.56	0.03	1.34	1.79	1.26
	Top Curve Side	1.64	0.16	0.63	0.06	1.80	2.27	1.70
	Bottom Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
	Bottom Curve Side	0.03	0.00	0.01	0.00	0.03	0.04	0.03
WCDMA IV	Front Face	0.25	0.10	0.19	0.03	0.35	0.44	0.28
	Rear Face	1.59	0.43	1.17	0.16	2.02	2.76	1.75
	Left Side	0.59	0.05	0.05	0.01	0.64	0.64	0.60
	Right Side	0.11	0.29	1.82	0.12	0.40	1.93	0.23
	Top Side	1.36	0.11	0.56	0.03	1.47	1.92	1.39
	Top Curve Side	1.74	0.16	0.63	0.06	1.90	2.37	1.80
	Bottom Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
	Bottom Curve Side	0.04	0.00	0.01	0.00	0.04	0.05	0.04

Simultaneous Transmission SAR Evaluation (Extremity)								
Band	Position	1	2	3	4	A(1+2)	B(1+3)	C(1+4)
		Max WWAN	Max WLAN 2.4GHz	Max WLAN 5GHz	Max BT Ant 0	Summing result	Summing result	Summing result
		10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg
WCDMA V	Front Face	0.06	0.10	0.19	0.03	0.16	0.25	0.09
	Rear Face	0.91	0.43	1.17	0.16	1.34	2.08	1.07
	Left Side	0.80	0.05	0.05	0.01	0.85	0.85	0.81
	Right Side	0.23	0.29	1.82	0.12	0.52	2.05	0.35
	Top Side	0.30	0.11	0.56	0.03	0.41	0.86	0.33
	Top Curve Side	0.49	0.16	0.63	0.06	0.65	1.12	0.55
	Bottom Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
	Bottom Curve Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
LTE 2	Front Face	0.15	0.10	0.19	0.03	0.25	0.34	0.18
	Rear Face	1.17	0.43	1.17	0.16	1.60	2.34	1.33
	Left Side	0.42	0.05	0.05	0.01	0.47	0.47	0.43
	Right Side	0.22	0.29	1.82	0.12	0.51	2.04	0.34
	Top Side	1.05	0.11	0.56	0.03	1.16	1.61	1.08
	Top Curve Side	1.61	0.16	0.63	0.06	1.77	2.24	1.67
	Bottom Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
	Bottom Curve Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00

Simultaneous Transmission SAR Evaluation (Extremity)								
Band	Position	1	2	3	4	A(1+2)	B(1+3)	C(1+4)
		Max WWAN	Max WLAN 2.4GHz	Max WLAN 5GHz	Max BT Ant 0	Summing result	Summing result	Summing result
		10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg
LTE 4	Front Face	0.22	0.10	0.19	0.03	0.32	0.41	0.25
	Rear Face	2.10	0.43	1.17	0.16	2.53	3.27	2.26
	Left Side	0.59	0.05	0.05	0.01	0.64	0.64	0.60
	Right Side	0.12	0.29	1.82	0.12	0.41	1.94	0.24
	Top Side	0.86	0.11	0.56	0.03	0.97	1.42	0.89
	Top Curve Side	1.80	0.16	0.63	0.06	1.96	2.43	1.86
	Bottom Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
	Bottom Curve Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
LTE 5	Front Face	0.13	0.10	0.19	0.03	0.23	0.32	0.16
	Rear Face	1.05	0.43	1.17	0.16	1.48	2.22	1.21
	Left Side	0.54	0.05	0.05	0.01	0.59	0.59	0.55
	Right Side	0.13	0.29	1.82	0.12	0.42	1.95	0.25
	Top Side	0.20	0.11	0.56	0.03	0.31	0.76	0.23
	Top Curve Side	0.52	0.16	0.63	0.06	0.68	1.15	0.58
	Bottom Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
	Bottom Curve Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00

Simultaneous Transmission SAR Evaluation (Extremity)								
Band	Position	1	2	3	4	A(1+2)	B(1+3)	C(1+4)
		Max WWAN	Max WLAN 2.4GHz	Max WLAN 5GHz	Max BT Ant 0	Summing result	Summing result	Summing result
		10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg
LTE 7	Front Face	0.19	0.10	0.19	0.03	0.29	0.38	0.22
	Rear Face	0.89	0.43	1.17	0.16	1.32	2.06	1.05
	Left Side	0.34	0.05	0.05	0.01	0.39	0.39	0.35
	Right Side	0.13	0.29	1.82	0.12	0.42	1.95	0.25
	Top Side	0.47	0.11	0.56	0.03	0.58	1.03	0.50
	Top Curve Side	0.57	0.16	0.63	0.06	0.73	1.20	0.63
	Bottom Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
	Bottom Curve Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
LTE 12	Front Face	0.08	0.10	0.19	0.03	0.18	0.27	0.11
	Rear Face	1.00	0.43	1.17	0.16	1.43	2.17	1.16
	Left Side	0.66	0.05	0.05	0.01	0.71	0.71	0.67
	Right Side	0.12	0.29	1.82	0.12	0.41	1.94	0.24
	Top Side	0.14	0.11	0.56	0.03	0.25	0.70	0.17
	Top Curve Side	0.32	0.16	0.63	0.06	0.48	0.95	0.38
	Bottom Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
	Bottom Curve Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00

Simultaneous Transmission SAR Evaluation (Extremity)								
Band	Position	1	2	3	4	A(1+2)	B(1+3)	C(1+4)
		Max WWAN	Max WLAN 2.4GHz	Max WLAN 5GHz	Max BT Ant 0	Summing result	Summing result	Summing result
		10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg
LTE 13	Front Face	0.15	0.10	0.19	0.03	0.25	0.34	0.18
	Rear Face	1.09	0.43	1.17	0.16	1.52	2.26	1.25
	Left Side	0.72	0.05	0.05	0.01	0.77	0.77	0.73
	Right Side	0.14	0.29	1.82	0.12	0.43	1.96	0.26
	Top Side	0.19	0.11	0.56	0.03	0.30	0.75	0.22
	Top Curve Side	0.40	0.16	0.63	0.06	0.56	1.03	0.46
	Bottom Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
	Bottom Curve Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
LTE 17	Front Face	0.07	0.10	0.19	0.03	0.17	0.26	0.10
	Rear Face	0.97	0.43	1.17	0.16	1.40	2.14	1.13
	Left Side	0.73	0.05	0.05	0.01	0.78	0.78	0.74
	Right Side	0.09	0.29	1.82	0.12	0.38	1.91	0.21
	Top Side	0.12	0.11	0.56	0.03	0.23	0.68	0.15
	Top Curve Side	0.30	0.16	0.63	0.06	0.46	0.93	0.36
	Bottom Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
	Bottom Curve Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00

Simultaneous Transmission SAR Evaluation (Extremity)								
Band	Position	1	2	3	4	A(1+2)	B(1+3)	C(1+4)
		Max WWAN	Max WLAN 2.4GHz	Max WLAN 5GHz	Max BT Ant 0	Summing result	Summing result	Summing result
		10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg
LTE 25	Front Face	0.18	0.10	0.19	0.03	0.28	0.37	0.21
	Rear Face	1.62	0.43	1.17	0.16	2.05	2.79	1.78
	Left Side	0.54	0.05	0.05	0.01	0.59	0.59	0.55
	Right Side	0.29	0.29	1.82	0.12	0.58	2.11	0.41
	Top Side	1.35	0.11	0.56	0.03	1.46	1.91	1.38
	Top Curve Side	2.11	0.16	0.63	0.06	2.27	2.74	2.17
	Bottom Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
	Bottom Curve Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
LTE 26	Front Face	0.13	0.10	0.19	0.03	0.23	0.32	0.16
	Rear Face	0.95	0.43	1.17	0.16	1.38	2.12	1.11
	Left Side	0.58	0.05	0.05	0.01	0.63	0.63	0.59
	Right Side	0.19	0.29	1.82	0.12	0.48	2.01	0.31
	Top Side	0.20	0.11	0.56	0.03	0.31	0.76	0.23
	Top Curve Side	0.29	0.16	0.63	0.06	0.45	0.92	0.35
	Bottom Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
	Bottom Curve Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00

Simultaneous Transmission SAR Evaluation (Extremity)								
Band	Position	1	2	3	4	A(1+2)	B(1+3)	C(1+4)
		Max WWAN	Max WLAN 2.4GHz	Max WLAN 5GHz	Max BT Ant 0	Summimg result	Summimg result	Summimg result
		10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg
LTE 66	Front Face	0.26	0.10	0.19	0.03	0.36	0.45	0.29
	Rear Face	2.17	0.43	1.17	0.16	2.60	3.34	2.33
	Left Side	0.66	0.05	0.05	0.01	0.71	0.71	0.67
	Right Side	0.12	0.29	1.82	0.12	0.41	1.94	0.24
	Top Side	1.43	0.11	0.56	0.03	1.54	1.99	1.46
	Top Curve Side	1.95	0.16	0.63	0.06	2.11	2.58	2.01
	Bottom Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00
	Bottom Curve Side	0.00	0.00	0.01	0.00	0.00	0.01	0.00