

### Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

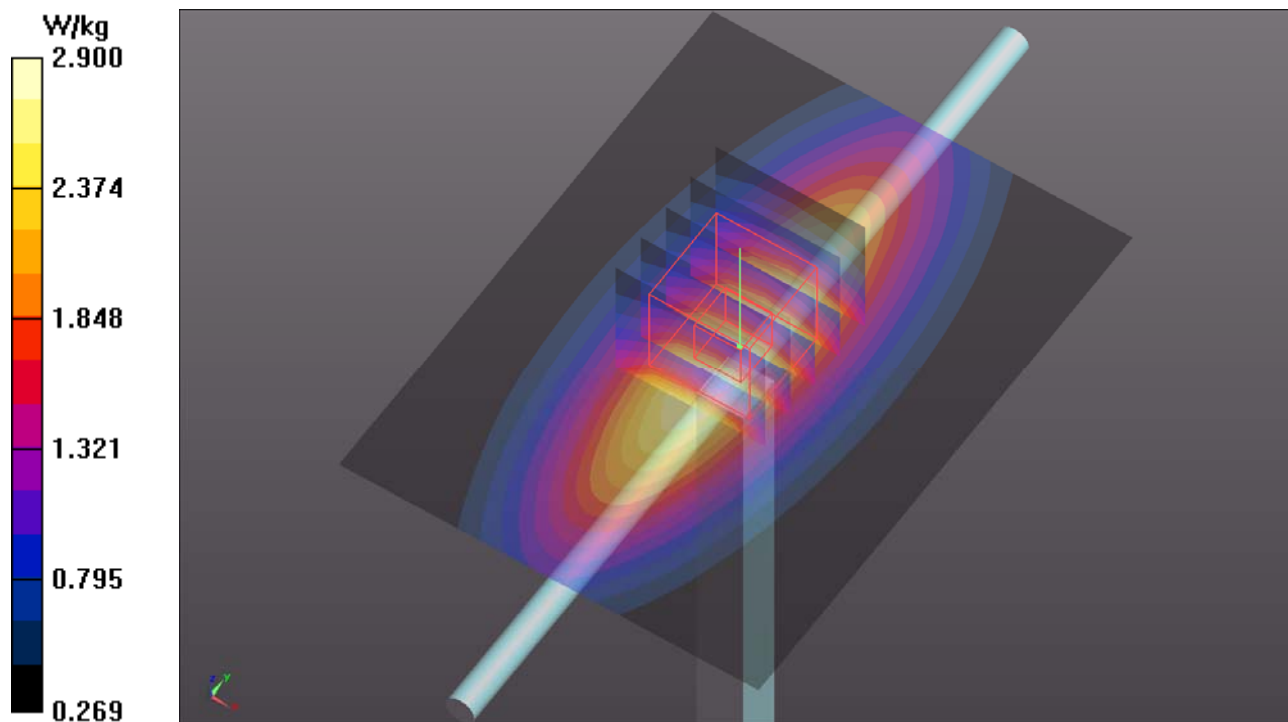
**System Check\_B750\_180424****DUT: Dipole 750 MHz; Type: D750V3; SN: 1013**

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: B06T09N1\_0424 Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.969 \text{ S/m}$ ;  $\epsilon_r = 53.811$ ;  $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature :  $23.6 \text{ }^\circ\text{C}$  ; Liquid Temperature :  $23.3 \text{ }^\circ\text{C}$ 

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(9.47, 9.47, 9.47); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Pin=250mW/Area Scan (61x81x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) =  $2.92 \text{ W/kg}$ **Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $57.35 \text{ V/m}$ ; Power Drift =  $-0.04 \text{ dB}$ Peak SAR (extrapolated) =  $3.26 \text{ W/kg}$ **SAR(1 g) =  $2.19 \text{ W/kg}$ ; SAR(10 g) =  $1.45 \text{ W/kg}$** Maximum value of SAR (measured) =  $2.90 \text{ W/kg}$ 

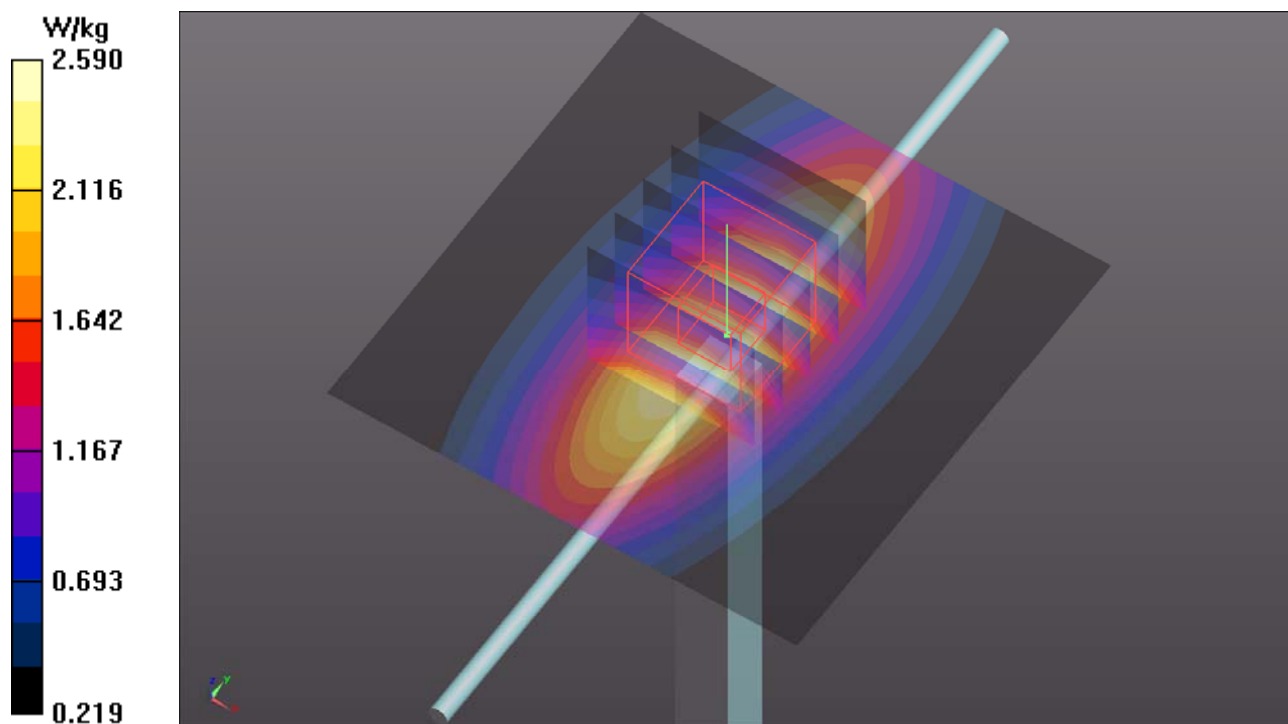
**System Check\_B835\_180424****DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: B07T10N1\_0424 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.972 \text{ S/m}$ ;  $\epsilon_r = 56.099$ ;  $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature :  $23.6 \text{ }^\circ\text{C}$  ; Liquid Temperature :  $23.3 \text{ }^\circ\text{C}$ 

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(9.59, 9.59, 9.59); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) =  $2.60 \text{ W/kg}$ **Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $53.56 \text{ V/m}$ ; Power Drift =  $-0.06 \text{ dB}$ Peak SAR (extrapolated) =  $2.93 \text{ W/kg}$ **SAR(1 g) =  $2.23 \text{ W/kg}$ ; SAR(10 g) =  $1.47 \text{ W/kg}$** Maximum value of SAR (measured) =  $2.59 \text{ W/kg}$ 

**System Check\_B1750\_180424****DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1055**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: B16T20N1\_0424 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.456$  S/m;  $\epsilon_r = 52.165$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(7.77, 7.77, 7.77); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

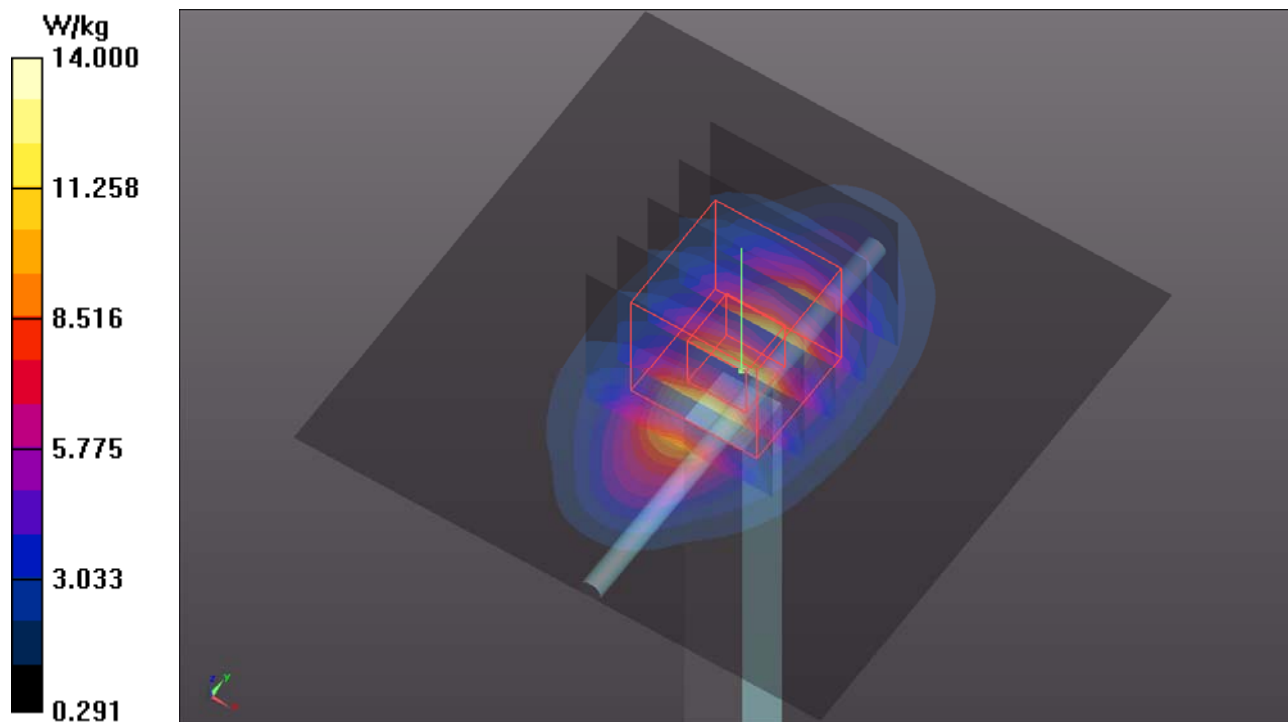
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 102.4 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 16.3 W/kg

**SAR(1 g) = 9.26 W/kg; SAR(10 g) = 4.94 W/kg**

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



**System Check\_B1900\_180424****DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: B16T20N1\_0424 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.584$  S/m;  $\epsilon_r = 51.781$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(7.62, 7.62, 7.62); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

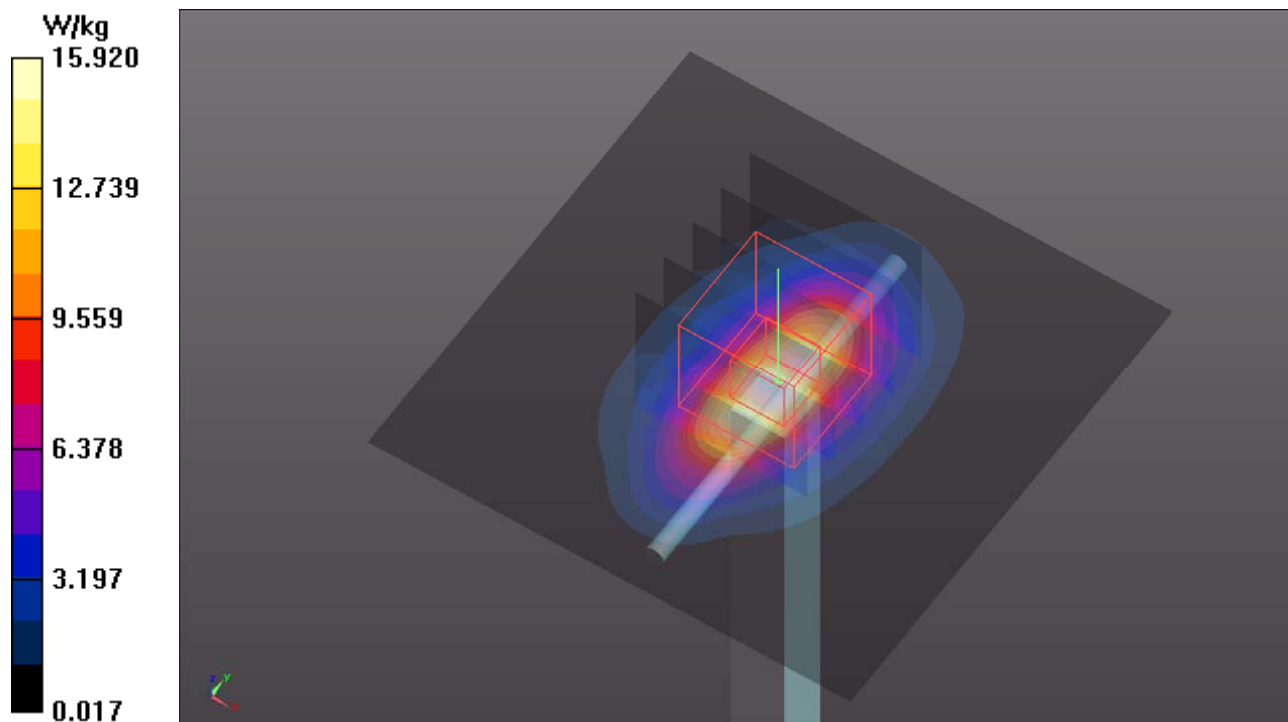
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 102.5 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 19.1 W/kg

**SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.37 W/kg**

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



## System Check\_B2300\_180423

**DUT: Dipole 2300 MHz; Type: D2300V2; SN:1004**

Communication System: CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: B19T27N5\_0423 Medium parameters used:  $f = 2300$  MHz;  $\sigma = 1.836$  S/m;  $\epsilon_r = 51.736$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.75, 7.75, 7.75); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 17.7 W/kg

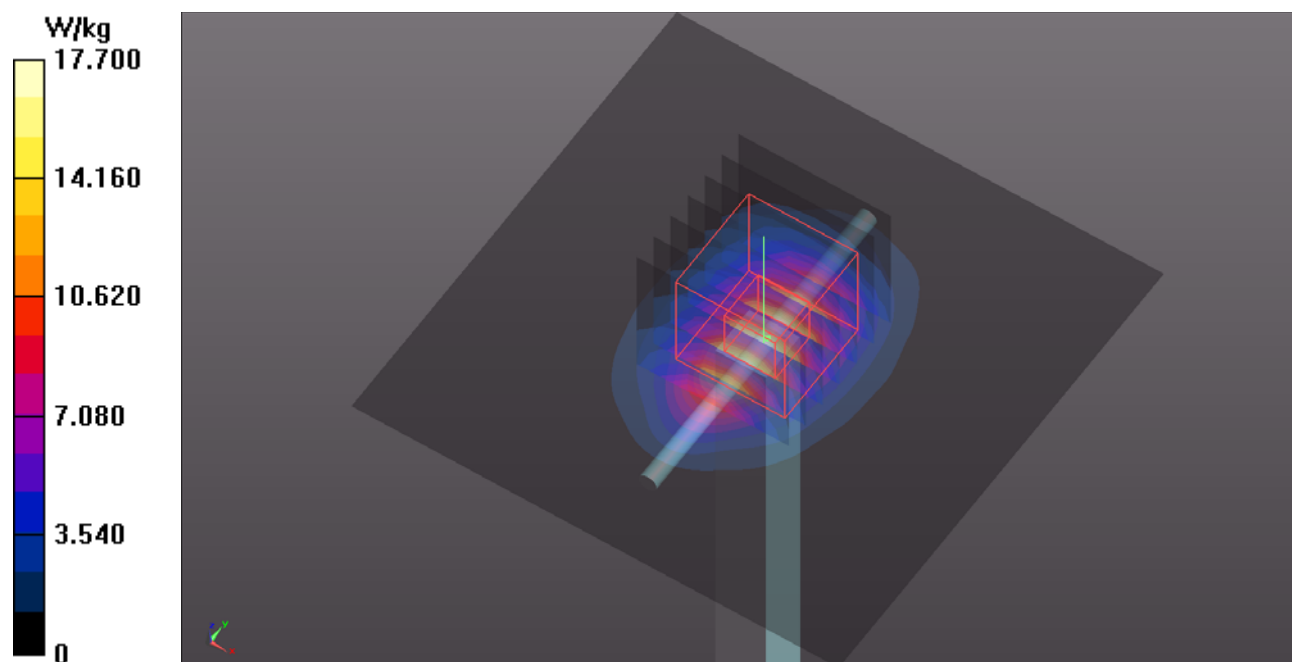
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 102.5 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 21.4 W/kg

**SAR(1 g) = 11 W/kg; SAR(10 g) = 5.3 W/kg**

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



**System Check\_B2450\_180425****DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: B19T27N1\_0425 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.047$  S/m;  $\epsilon_r = 52.052$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(7.1, 7.1, 7.1); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7373)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

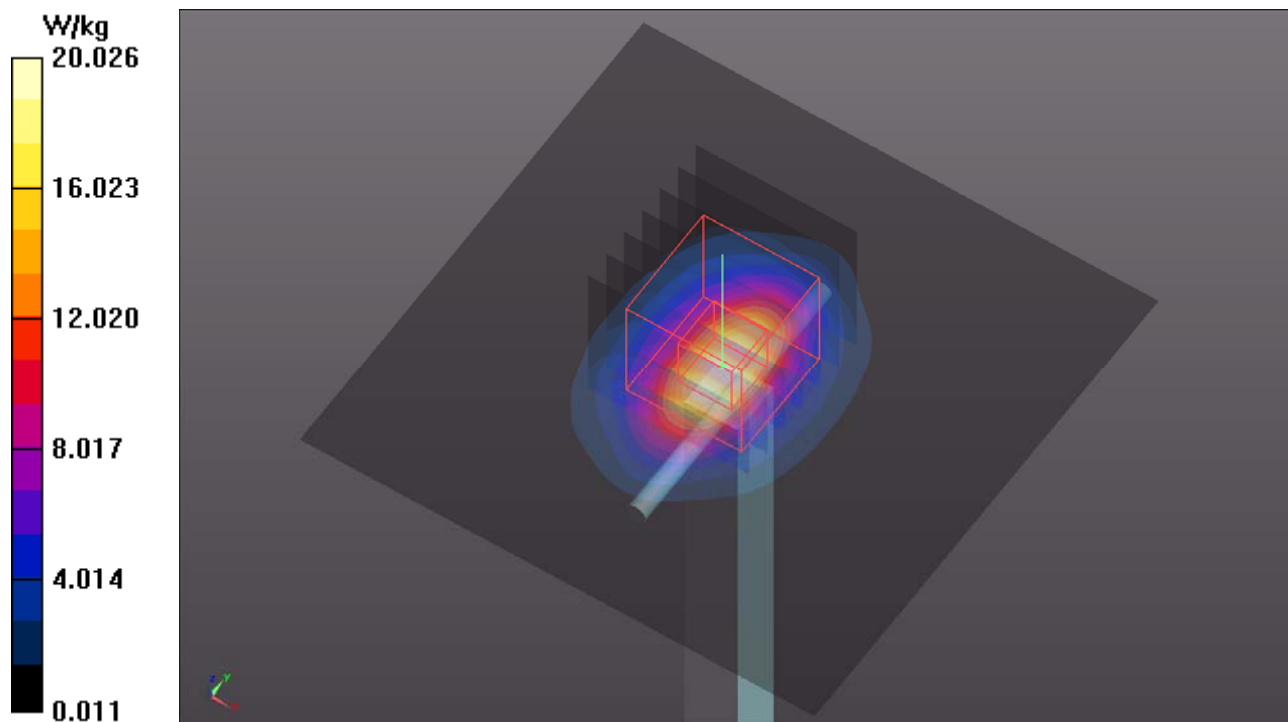
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 100.3 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 26.2 W/kg

**SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.1 W/kg**

Maximum value of SAR (measured) = 19.8 W/kg



## System Check\_B2600\_180423

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

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: B19T27N5\_0423 Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.169$  S/m;  $\epsilon_r = 50.963$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.36, 7.36, 7.36); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 22.4 W/kg

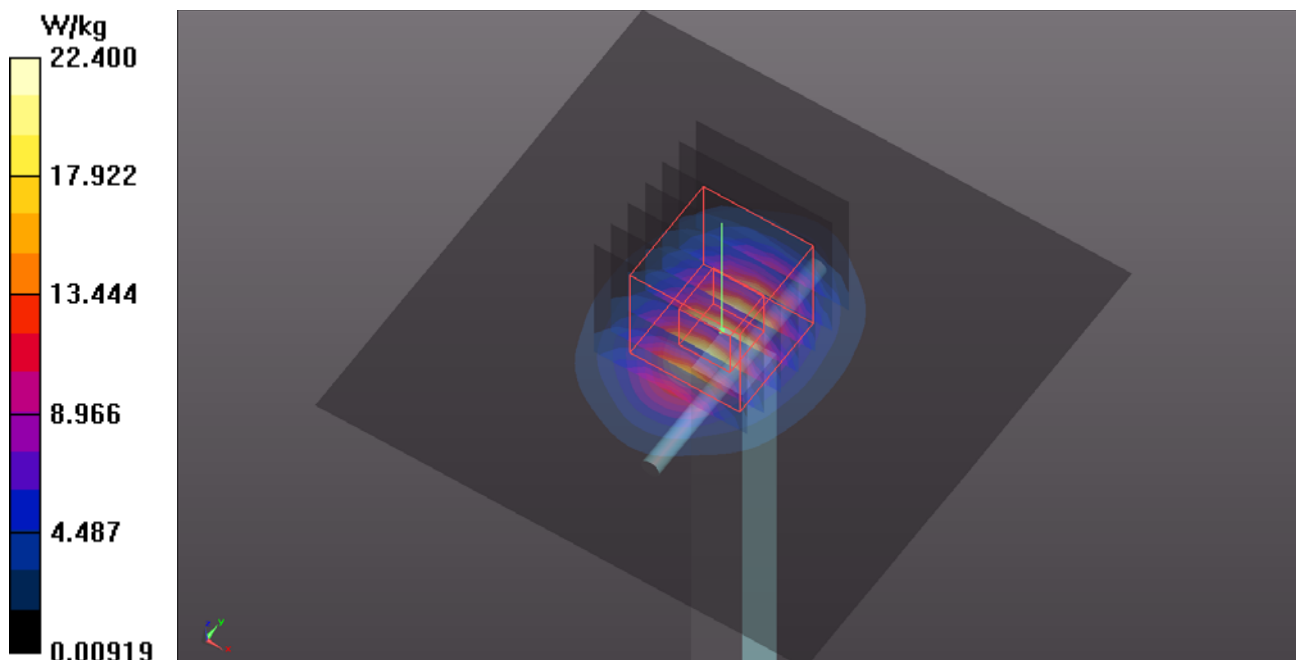
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.0 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 30.7 W/kg

**SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.3 W/kg**

Maximum value of SAR (measured) = 22.3 W/kg





**System Check\_B5250\_180503****DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: B34T60N1\_0503 Medium parameters used:  $f = 5250$  MHz;  $\sigma = 5.262$  S/m;  $\epsilon_r = 49.557$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.39, 4.39, 4.39); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7373)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 17.5 W/kg

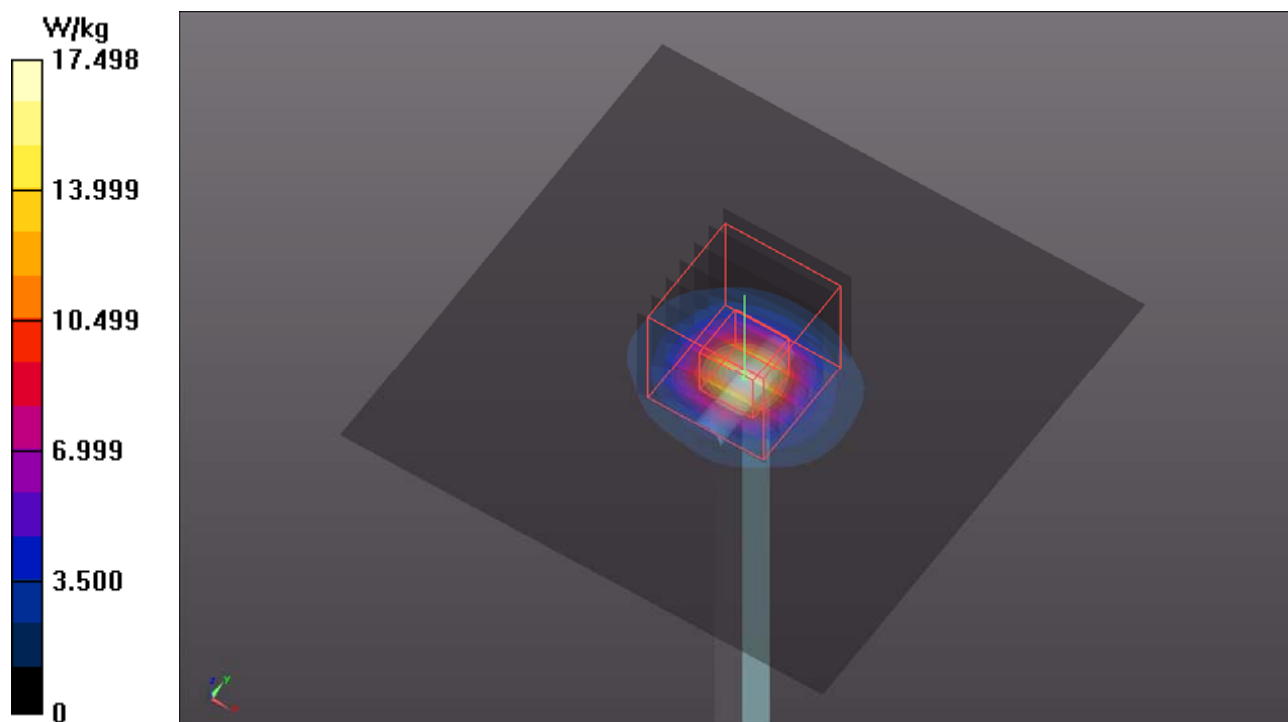
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 59.29 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 29.1 W/kg

**SAR(1 g) = 7.47 W/kg; SAR(10 g) = 2.14 W/kg**

Maximum value of SAR (measured) = 18.2 W/kg



**System Check\_B5600\_180503****DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: B34T60N1\_0503 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.713$  S/m;  $\epsilon_r = 49.047$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.8, 3.8, 3.8); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7373)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 17.6 W/kg

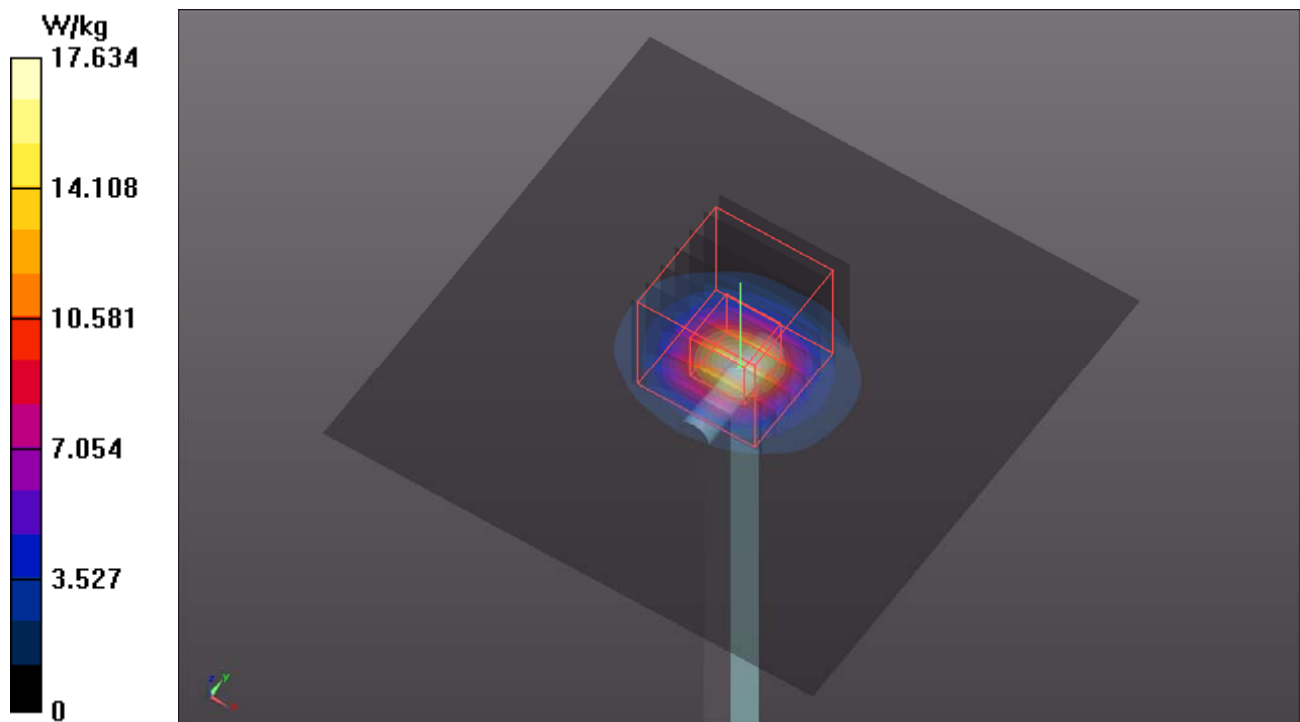
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 64.60 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 32.7 W/kg

**SAR(1 g) = 7.5 W/kg; SAR(10 g) = 2.13 W/kg**

Maximum value of SAR (measured) = 19.1 W/kg



**System Check\_B5800\_180425****DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: B34T60N1\_0425 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.006$  S/m;  $\epsilon_r = 48.412$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.04, 4.04, 4.04); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7373)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 15.4 W/kg

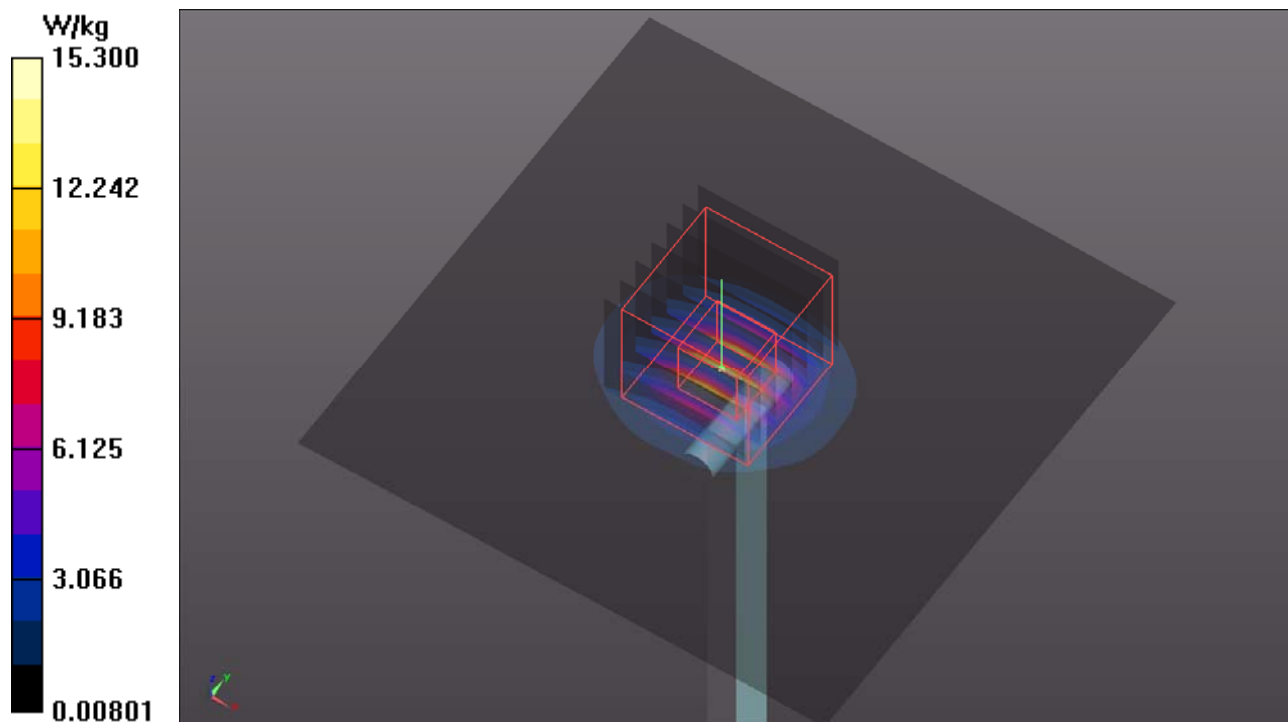
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.23 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 29.4 W/kg

**SAR(1 g) = 7.25 W/kg; SAR(10 g) = 2.07 W/kg**

Maximum value of SAR (measured) = 15.3 W/kg



### Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

**P01 WCDMA II\_RMC12.2K\_Bottom\_0mm\_Ch9538****DUT: 180315C04**

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: B16T20N1\_0423 Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.562$  S/m;  $\epsilon_r = 51.45$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3971; ConvF(8.08, 8.08, 8.08); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.613 W/kg

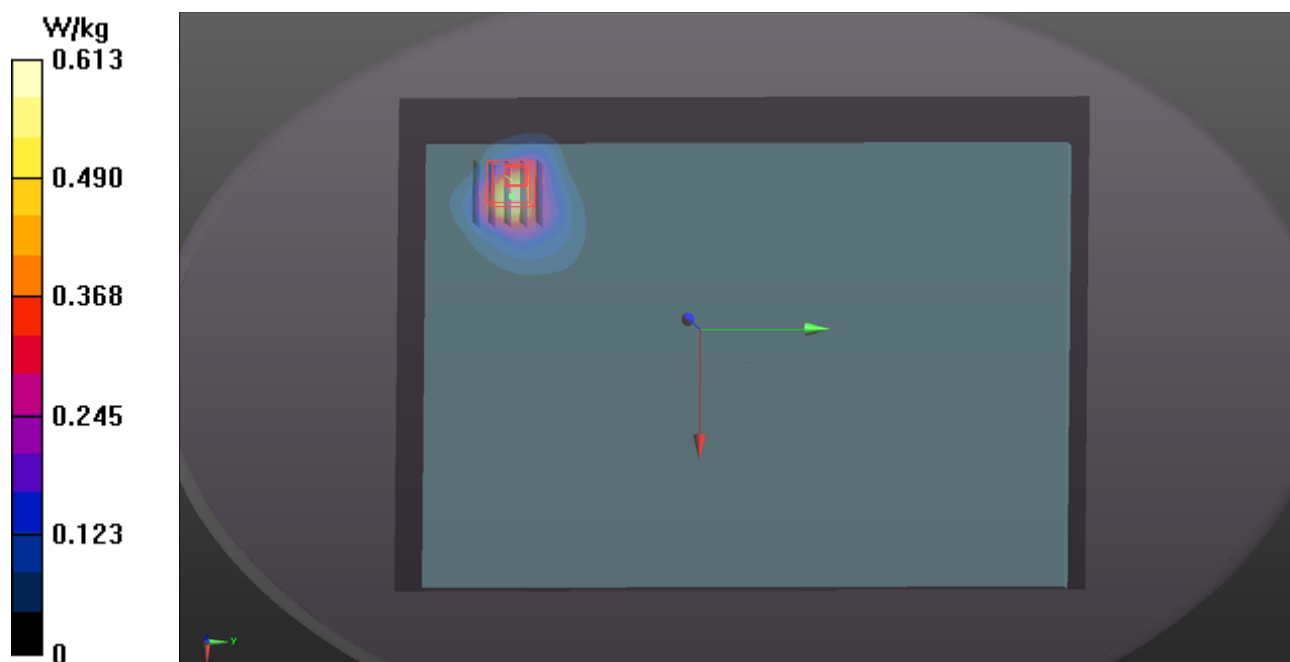
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.05 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.815 W/kg

**SAR(1 g) = 0.448 W/kg; SAR(10 g) = 0.224 W/kg**

Maximum value of SAR (measured) = 0.670 W/kg



**P02 WCDMA IV\_RMC12.2K\_Bottom\_0mm\_Ch1312****DUT: 180315C04**

Communication System: WCDMA; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium: B16T20N1\_0423 Medium parameters used:  $f = 1712.4$  MHz;  $\sigma = 1.402$  S/m;  $\epsilon_r = 51.759$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3971; ConvF(8.34, 8.34, 8.34); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.750 W/kg

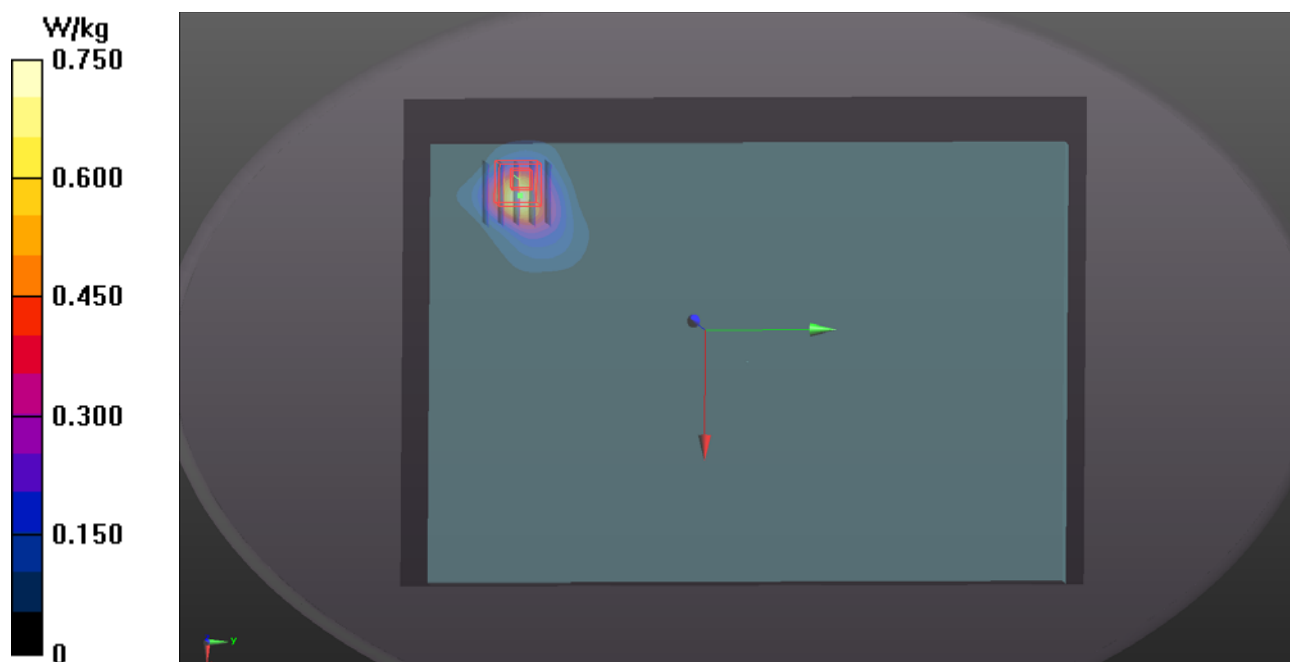
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.65 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.976 W/kg

**SAR(1 g) = 0.538 W/kg; SAR(10 g) = 0.276 W/kg**

Maximum value of SAR (measured) = 0.838 W/kg



**P03 WCDMA V\_RMC12.2K\_Bottom\_0mm\_Ch4233****DUT: 180315C04**

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: B07T10N1\_0424 Medium parameters used:  $f = 846.6$  MHz;  $\sigma = 1.018$  S/m;  $\epsilon_r = 54.093$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3971; ConvF(10.15, 10.15, 10.15); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.793 W/kg

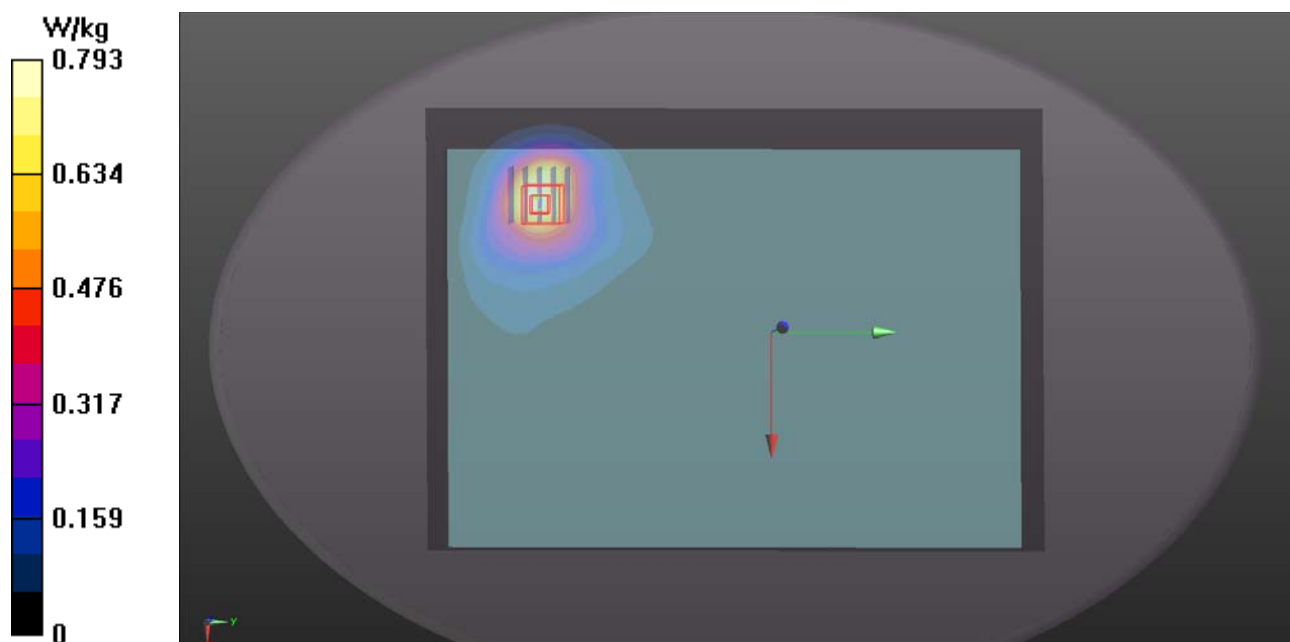
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.93 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.27 W/kg

**SAR(1 g) = 0.718 W/kg; SAR(10 g) = 0.417 W/kg**

Maximum value of SAR (measured) = 1.01 W/kg



**P04 LTE 2\_QPSK20M\_Bottom\_0mm\_Ch18700\_1RB\_OS0****DUT: 180315C04**

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: B16T20N1\_0423 Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.539$  S/m;  $\epsilon_r = 51.43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3971; ConvF(8.08, 8.08, 8.08); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.550 W/kg

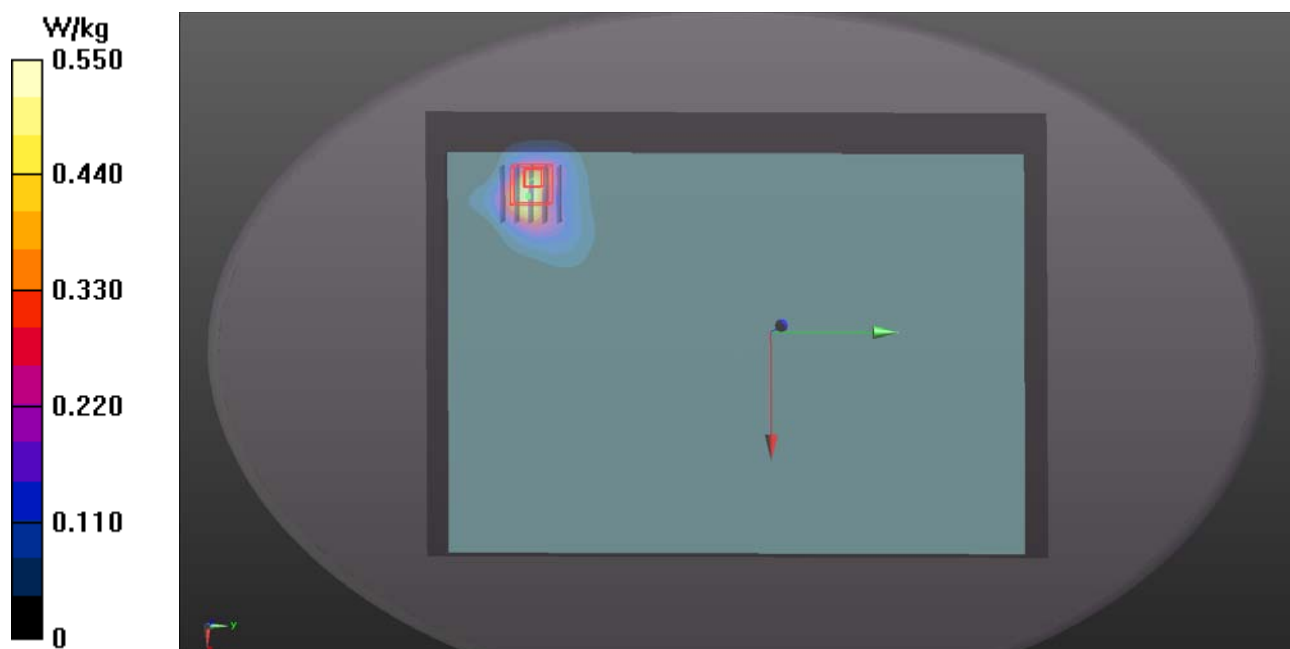
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.58 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.722 W/kg

**SAR(1 g) = 0.400 W/kg; SAR(10 g) = 0.204 W/kg**

Maximum value of SAR (measured) = 0.581 W/kg





**P05 LTE 4\_QPSK20M\_Bottom\_0mm\_Ch20050\_1RB\_OS0****DUT: 180315C04**

Communication System: LTE; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: B16T20N1\_0423 Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.411$  S/m;  $\epsilon_r = 51.746$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3971; ConvF(8.34, 8.34, 8.34); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

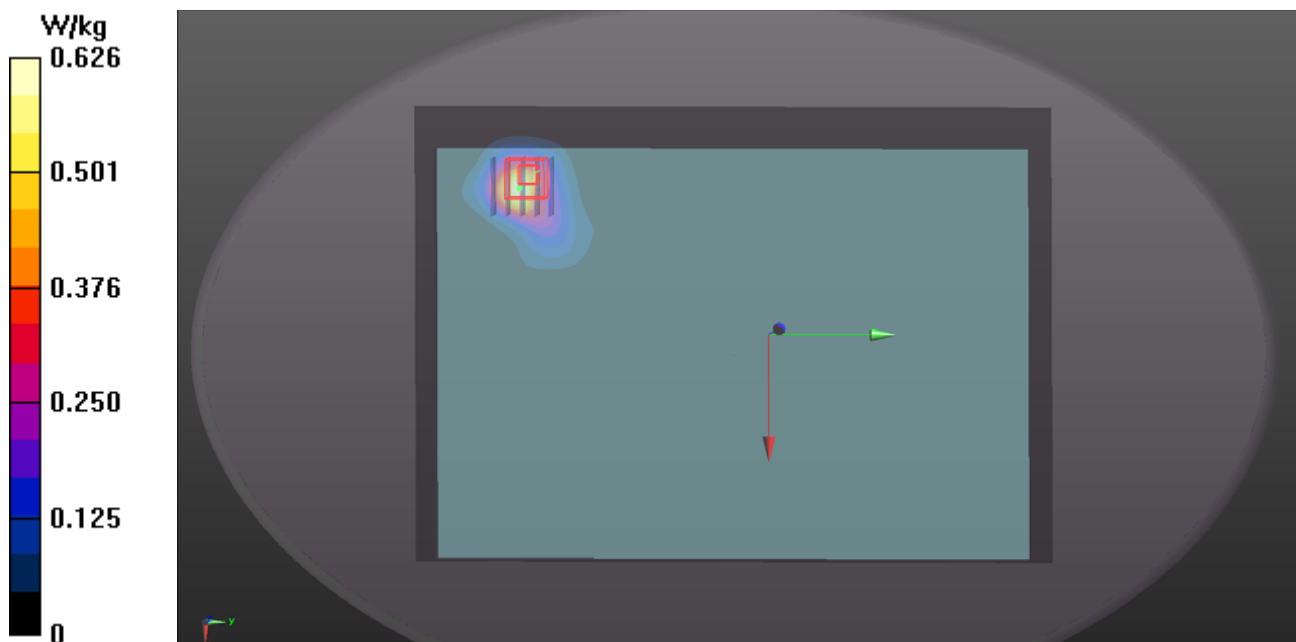
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.09 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.14 W/kg

**SAR(1 g) = 0.592 W/kg; SAR(10 g) = 0.300 W/kg**

Maximum value of SAR (measured) = 0.931 W/kg



**P06 LTE 5\_QPSK10M\_Bottom\_0mm\_Ch20525\_1RB\_OS0****DUT: 180315C04**

Communication System: LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: B07T10N1\_0424 Medium parameters used:  $f = 836.5$  MHz;  $\sigma = 1.008$  S/m;  $\epsilon_r = 54.205$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3971; ConvF(10.15, 10.15, 10.15); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.05 W/kg

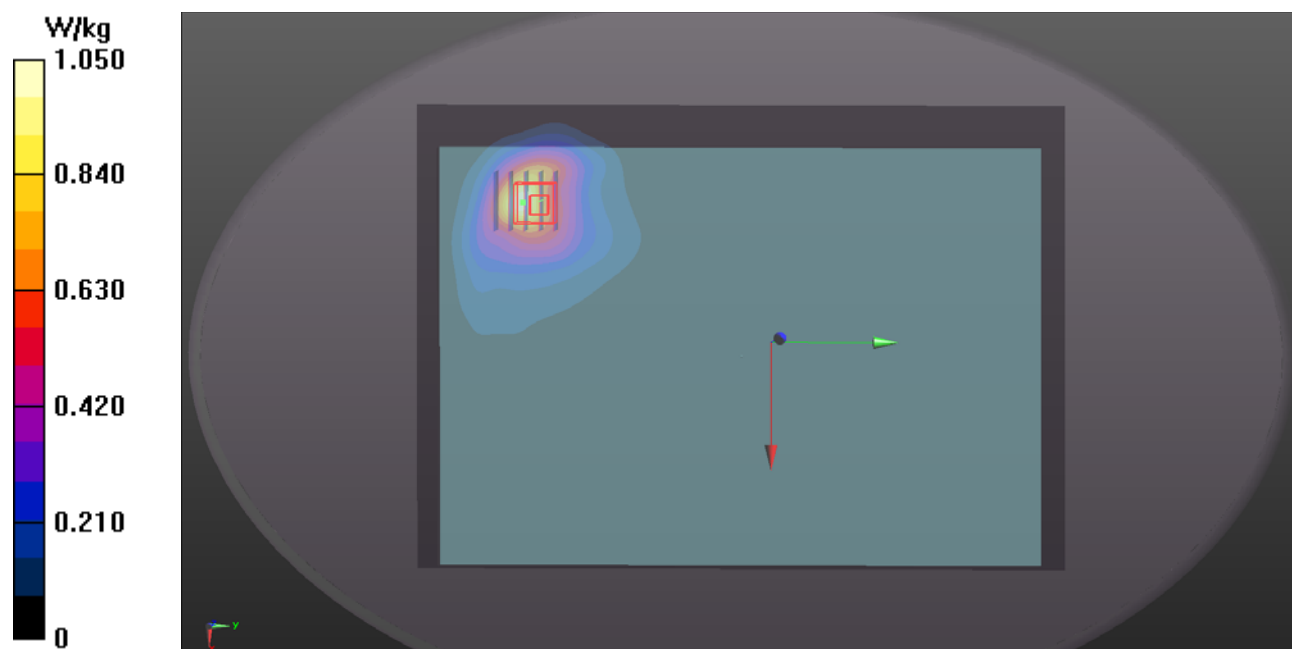
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.81 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.46 W/kg

**SAR(1 g) = 0.840 W/kg; SAR(10 g) = 0.484 W/kg**

Maximum value of SAR (measured) = 1.21 W/kg



**P07 LTE 7\_QPSK20M\_Bottom\_0mm\_Ch21350\_1RB\_OS0****DUT: 180315C04**

Communication System: LTE; Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: B19T27N5\_0423 Medium parameters used:  $f = 2560$  MHz;  $\sigma = 2.123$  S/m;  $\epsilon_r = 51.076$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3971; ConvF(7.36, 7.36, 7.36); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (211x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.18 W/kg

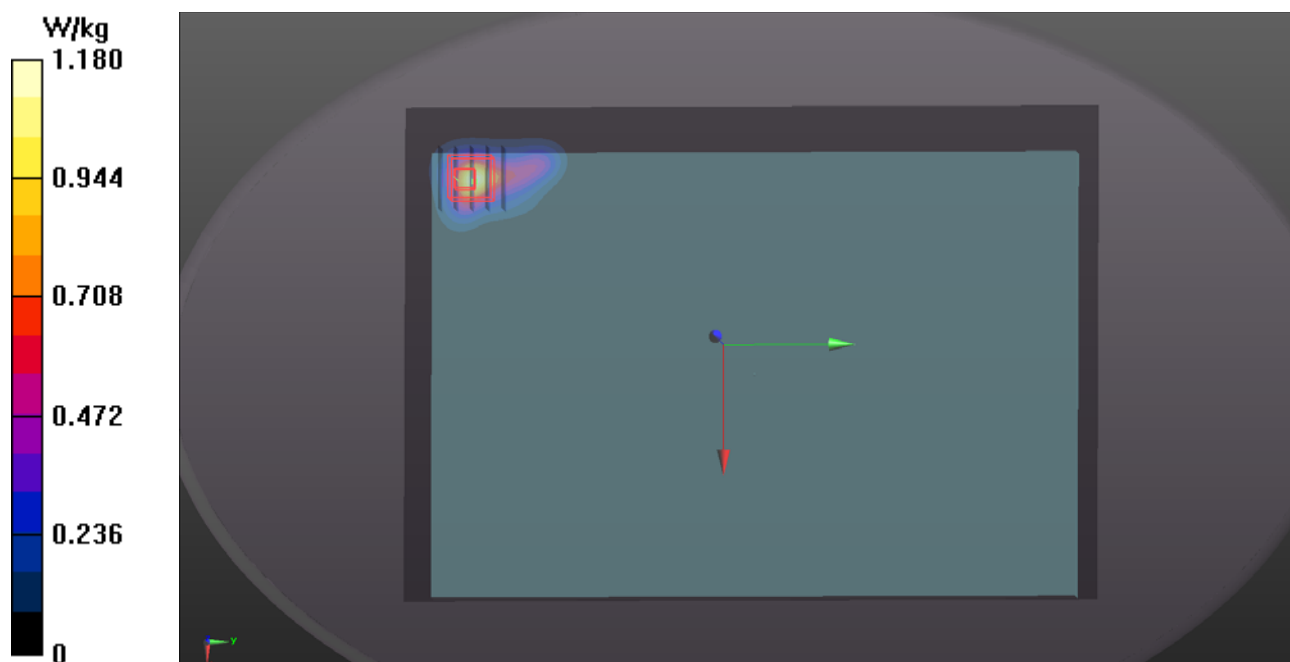
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.74 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.32 W/kg

**SAR(1 g) = 0.620 W/kg; SAR(10 g) = 0.298 W/kg**

Maximum value of SAR (measured) = 1.01 W/kg



**P08 LTE 12\_QPSK10M\_Bottom\_0mm\_Ch23095\_1RB\_OS24****DUT: 180315C04**

Communication System: LTE; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: B06T09N1\_0424 Medium parameters used:  $f = 707.5$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 54.254$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3820; ConvF(9.47, 9.47, 9.47); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.16 W/kg

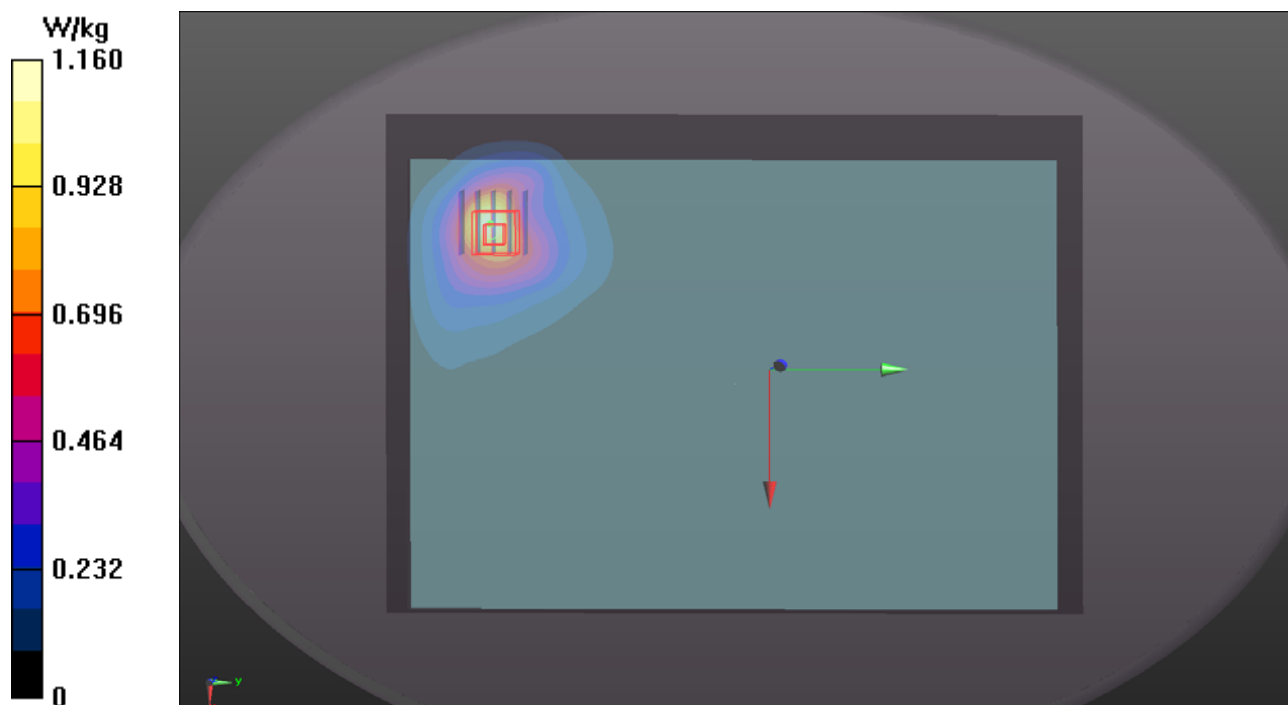
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 35.71 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.886 W/kg; SAR(10 g) = 0.526 W/kg**

Maximum value of SAR (measured) = 1.28 W/kg



**P09 LTE 13\_QPSK10M\_Bottom\_0mm\_Ch23230\_25RB\_OS0****DUT: 180315C04**

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: B06T09N1\_0424 Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 1 \text{ S/m}$ ;  $\epsilon_r = 53.474$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature :  $23.6^\circ\text{C}$  ; Liquid Temperature :  $23.3^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3820; ConvF(9.47, 9.47, 9.47); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $1.14 \text{ W/kg}$

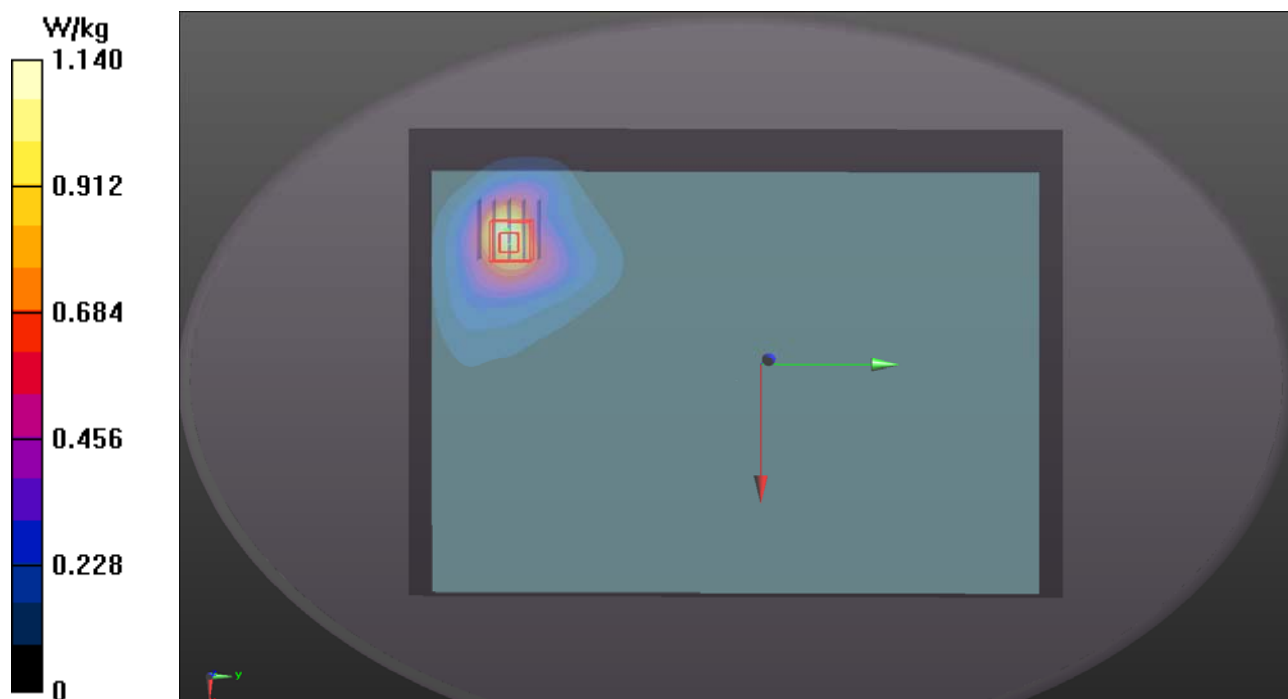
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $33.02 \text{ V/m}$ ; Power Drift =  $-0.09 \text{ dB}$

Peak SAR (extrapolated) =  $1.70 \text{ W/kg}$

**SAR(1 g) =  $0.934 \text{ W/kg}$ ; SAR(10 g) =  $0.533 \text{ W/kg}$**

Maximum value of SAR (measured) =  $1.41 \text{ W/kg}$



**P10 LTE 17\_QPSK10M\_Bottom\_0mm\_Ch23800\_1RB\_OS49****DUT: 180315C04**

Communication System: LTE; Frequency: 711 MHz; Duty Cycle: 1:1

Medium: B06T09N1\_0424 Medium parameters used:  $f = 711$  MHz;  $\sigma = 0.932$  S/m;  $\epsilon_r = 54.221$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3820; ConvF(9.47, 9.47, 9.47); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.08 W/kg

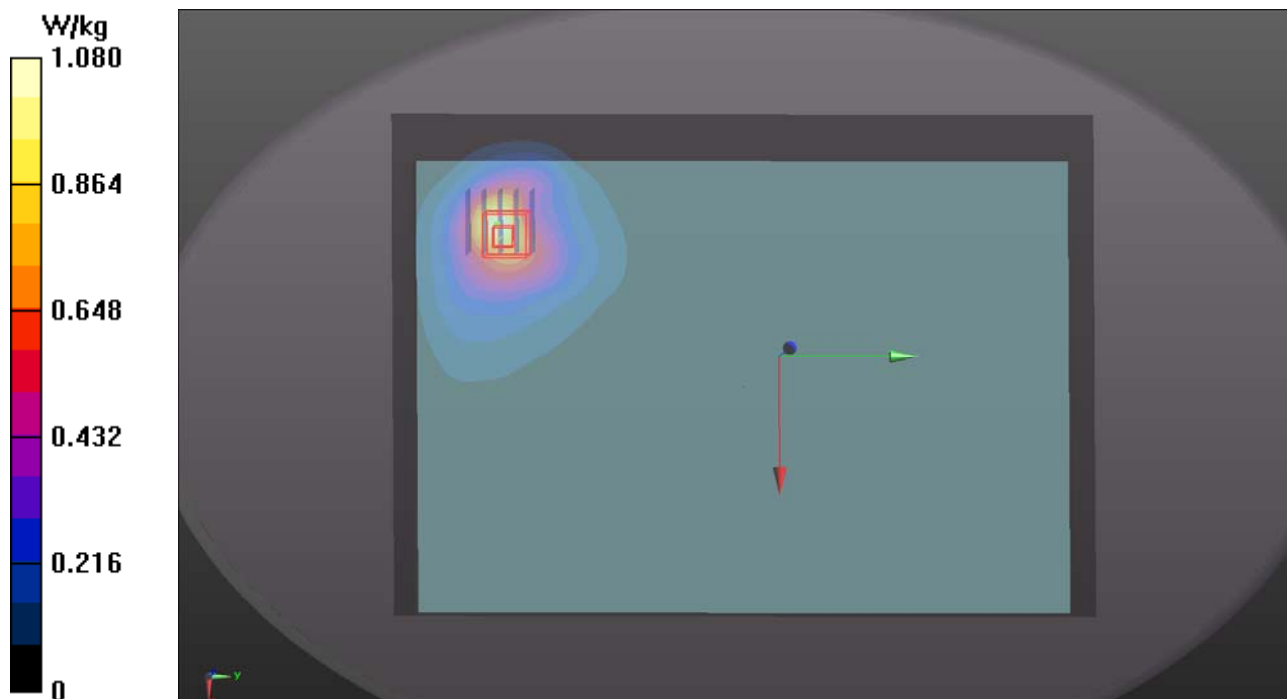
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 33.76 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.47 W/kg

**SAR(1 g) = 0.847 W/kg; SAR(10 g) = 0.505 W/kg**

Maximum value of SAR (measured) = 1.20 W/kg



**P11 LTE 26\_QPSK15M\_Bottom\_0mm\_Ch26865\_1RB\_OS37****DUT: 180315C04**

Communication System: LTE; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: B07T10N1\_0424 Medium parameters used:  $f = 831.5$  MHz;  $\sigma = 1.003$  S/m;  $\epsilon_r = 54.258$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3971; ConvF(10.15, 10.15, 10.15); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.931 W/kg

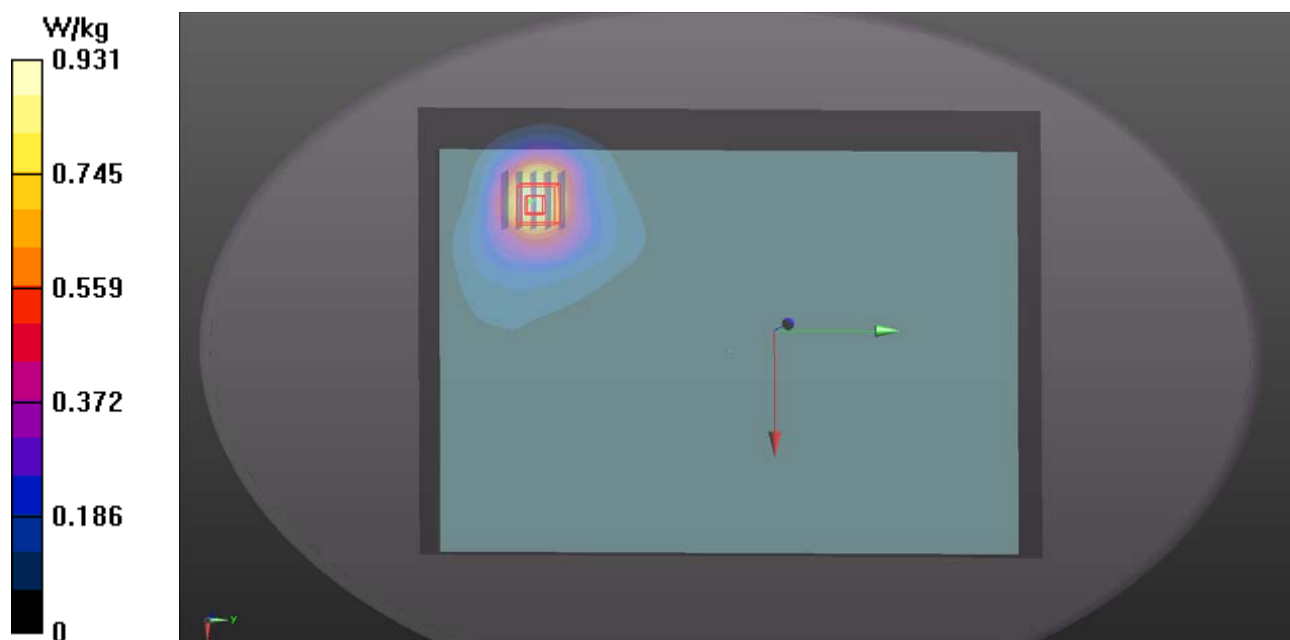
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.98 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 0.819 W/kg; SAR(10 g) = 0.480 W/kg**

Maximum value of SAR (measured) = 1.19 W/kg



**P12 LTE 30\_QPSK10M\_Bottom\_0mm\_Ch27710\_1RB\_OS0****DUT: 180315C04**

Communication System: LTE; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: B19T27N5\_0423 Medium parameters used:  $f = 2310$  MHz;  $\sigma = 1.847$  S/m;  $\epsilon_r = 51.716$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3971; ConvF(7.75, 7.75, 7.75); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (211x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.919 W/kg

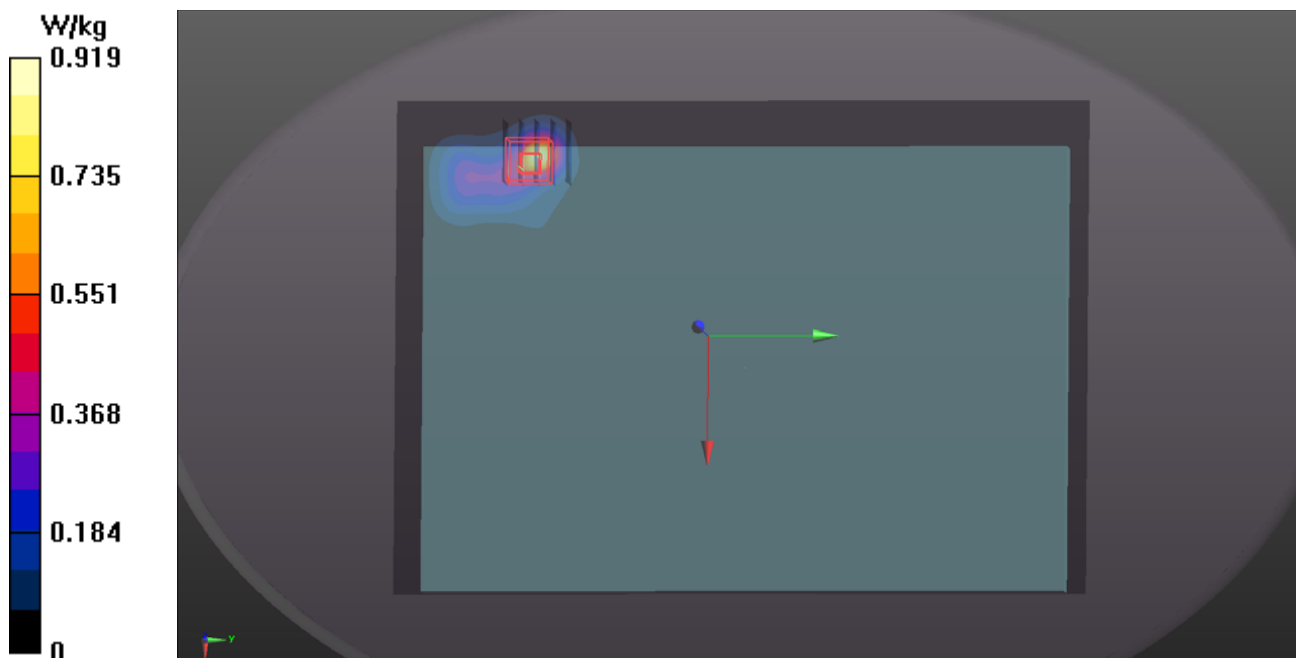
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.65 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.56 W/kg

**SAR(1 g) = 0.807 W/kg; SAR(10 g) = 0.375 W/kg**

Maximum value of SAR (measured) = 1.13 W/kg





**P13 LTE 38\_QPSK20M\_Bottom\_0mm\_Ch37850\_1RB\_OS99****DUT: 180315C04**

Communication System: LTE TDD CF0; Frequency: 2580 MHz; Duty Cycle: 1:1.58

Medium: B19T27N5\_0423 Medium parameters used:  $f = 2580$  MHz;  $\sigma = 2.146$  S/m;  $\epsilon_r = 51.018$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3971; ConvF(7.36, 7.36, 7.36); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (211x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.510 W/kg

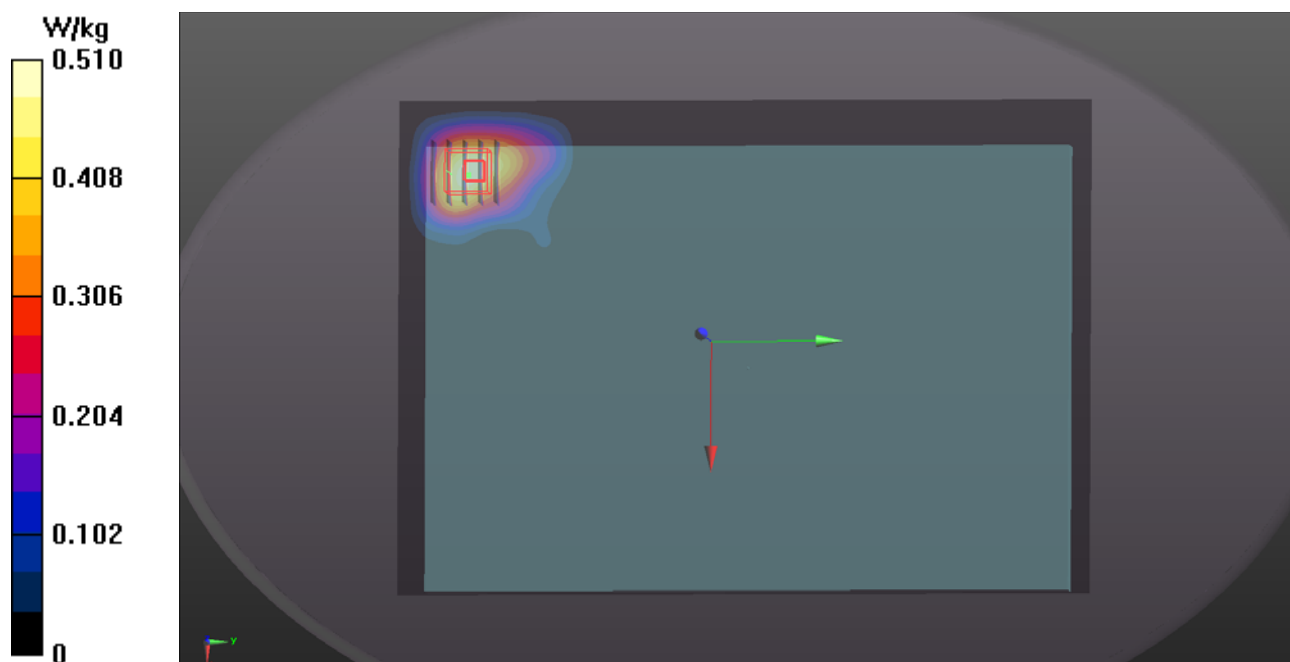
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.88 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.48 W/kg

**SAR(1 g) = 0.705 W/kg; SAR(10 g) = 0.346 W/kg**

Maximum value of SAR (measured) = 1.10 W/kg



**P14 LTE 41\_QPSK20M\_Bottom\_0mm\_Ch40185\_1RB\_OS0****DUT: 180315C04**

Communication System: LTE TDD CF0; Frequency: 2549.5 MHz; Duty Cycle: 1:1.58

Medium: B19T27N5\_0423 Medium parameters used:  $f = 2550$  MHz;  $\sigma = 2.112$  S/m;  $\epsilon_r = 51.105$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3971; ConvF(7.36, 7.36, 7.36); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (211x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.00 W/kg

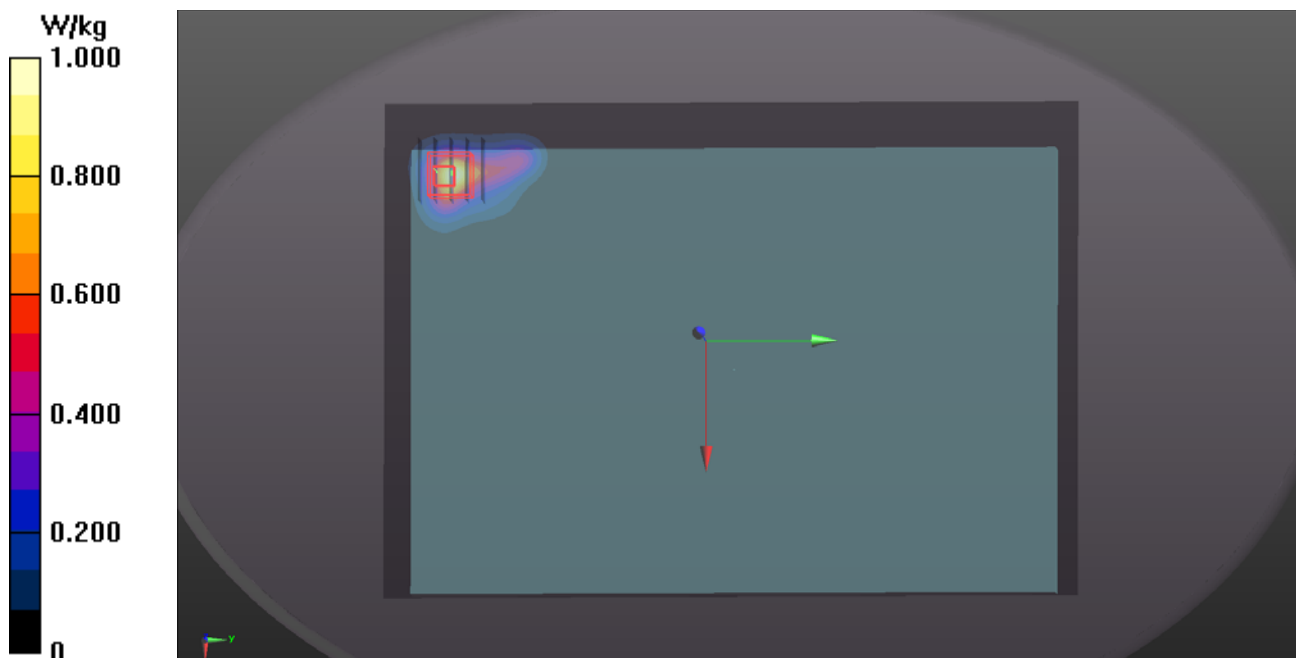
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.16 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.22 W/kg

**SAR(1 g) = 0.578 W/kg; SAR(10 g) = 0.280 W/kg**

Maximum value of SAR (measured) = 0.917 W/kg



**P15 LTE 66\_QPSK20M\_Bottom\_0mm\_Ch132072\_1RB\_OS0****DUT: 180315C04**

Communication System: LTE; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: B16T20N1\_0423 Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.411$  S/m;  $\epsilon_r = 51.746$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3971; ConvF(8.34, 8.34, 8.34); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.608 W/kg

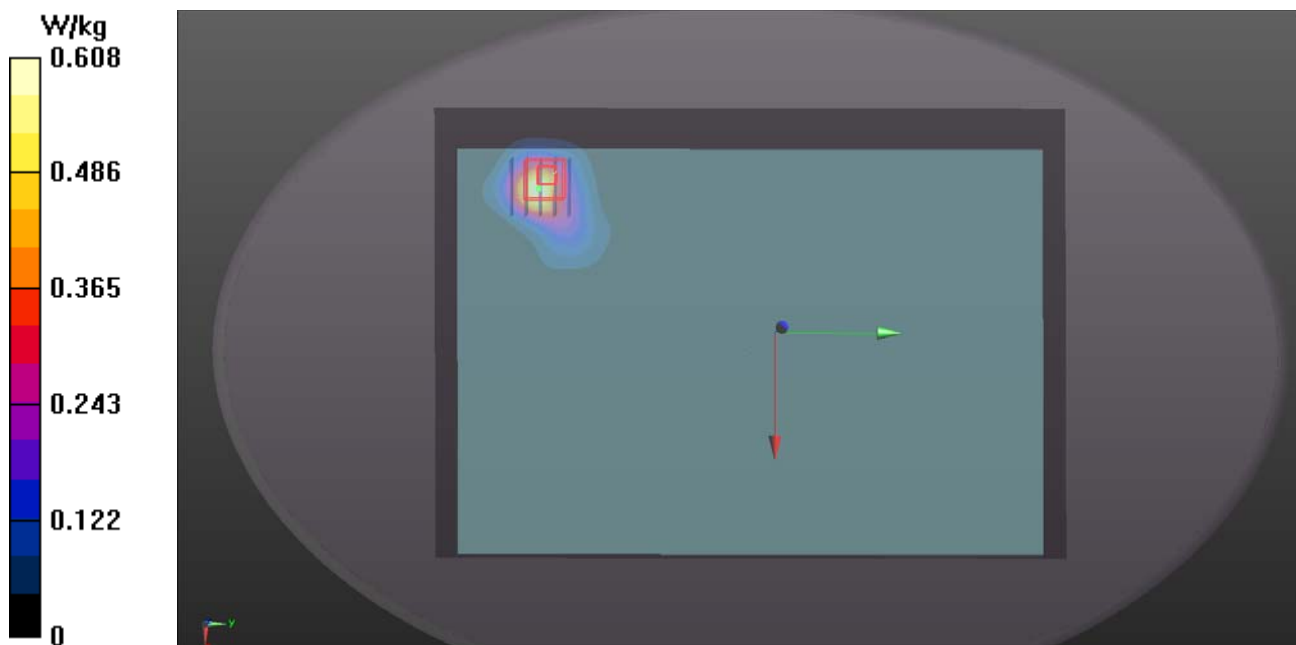
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.67 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.07 W/kg

**SAR(1 g) = 0.564 W/kg; SAR(10 g) = 0.287 W/kg**

Maximum value of SAR (measured) = 0.879 W/kg



**P16 WLAN2.4G\_802.11b\_Bottom\_0mm\_Ch6\_Ant0****DUT: 180315C04**

Communication System: WLAN\_2.4G; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: B19T27N3\_0504 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 2.003$  S/m;  $\epsilon_r = 51.43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3820; ConvF(7.1, 7.1, 7.1); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7373)

**- Area Scan (211x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 2.02 W/kg

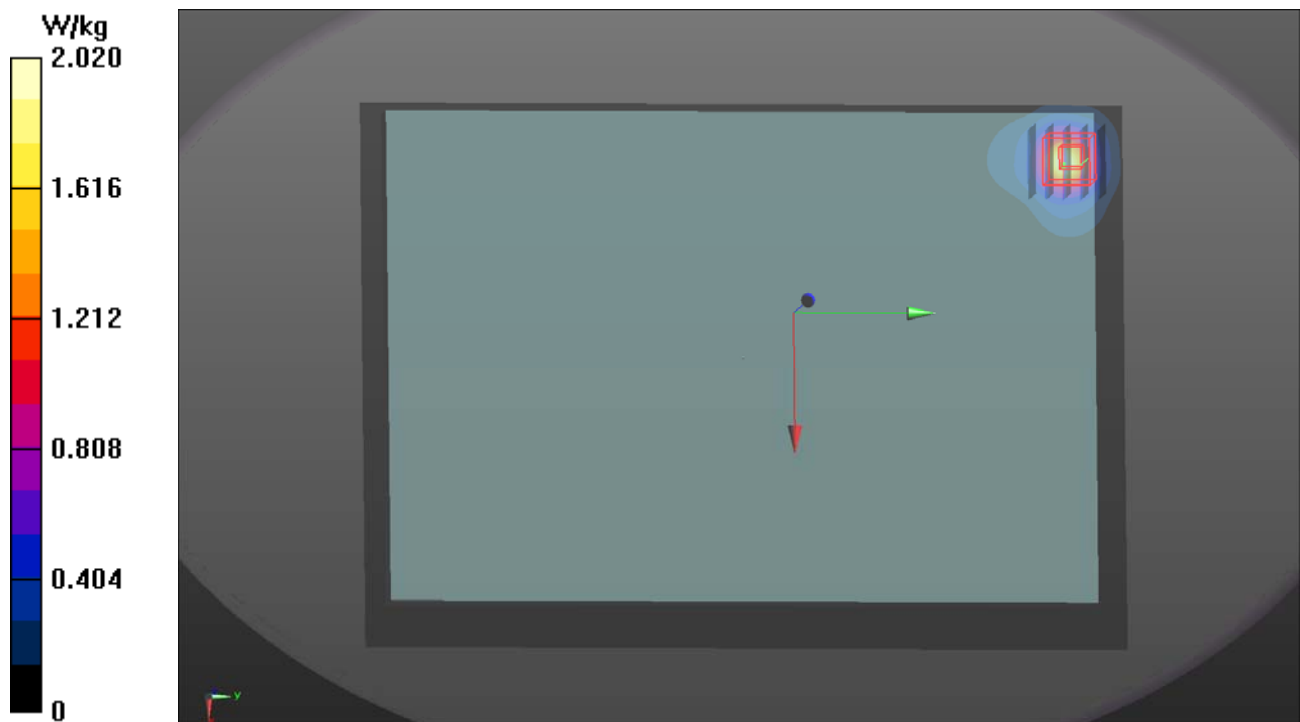
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.40 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.41 W/kg

**SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.476 W/kg**

Maximum value of SAR (measured) = 1.64 W/kg



**P17 WLAN5G\_802.11n HT40\_Bottom\_0mm\_Ch54\_Ant0+1****DUT: 180315C04**

Communication System: WLAN\_5G; Frequency: 5270 MHz; Duty Cycle: 1:1

Medium: B34T60N1\_0503 Medium parameters used:  $f = 5270$  MHz;  $\sigma = 5.289$  S/m;  $\epsilon_r = 49.538$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.4 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3820; ConvF(4.39, 4.39, 4.39); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7373)

**- Area Scan (251x351x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.03 W/kg

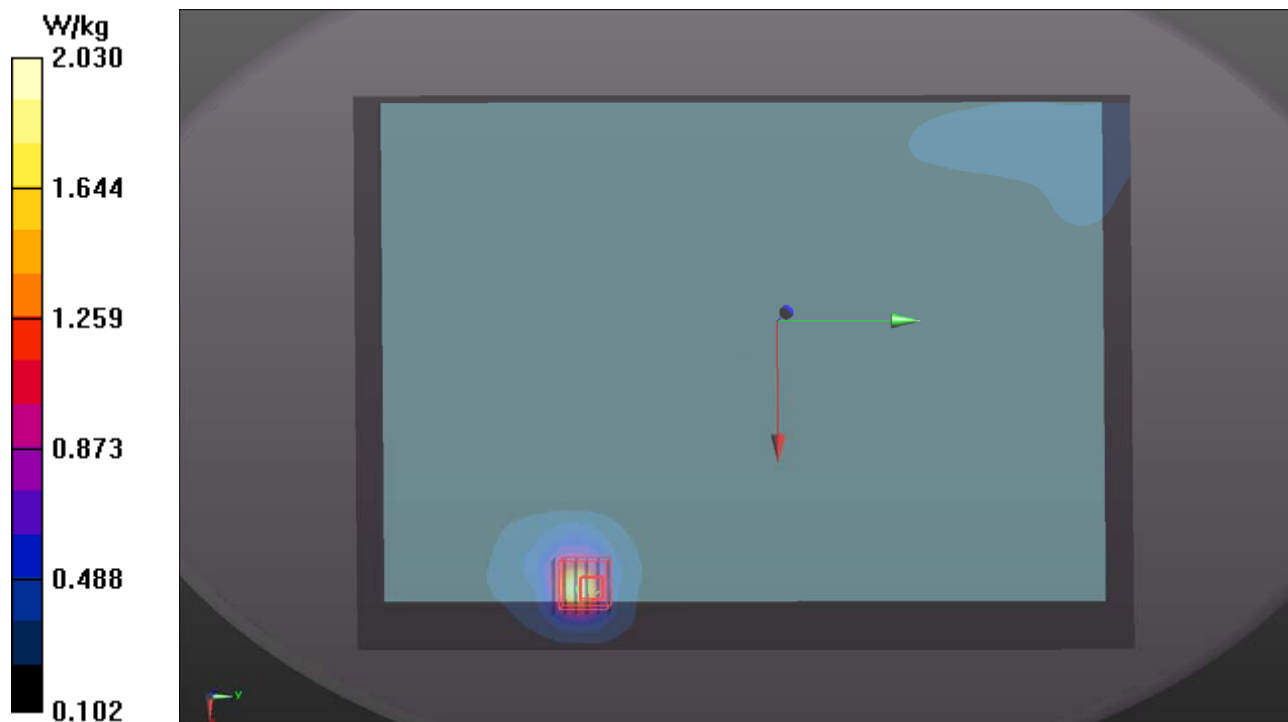
**- Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 21.47 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 4.32 W/kg

**SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.485 W/kg**

Maximum value of SAR (measured) = 2.26 W/kg



**P18 WLAN5G\_802.11n HT40\_Bottom\_0mm\_Ch126\_Ant0+1****DUT: 180315C04**

Communication System: WLAN\_5G; Frequency: 5630 MHz; Duty Cycle: 1:1

Medium: B34T60N1\_0503 Medium parameters used:  $f = 5630$  MHz;  $\sigma = 5.754$  S/m;  $\epsilon_r = 48.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.4 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3820; ConvF(3.8, 3.8, 3.8); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7373)

**- Area Scan (251x351x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.13 W/kg

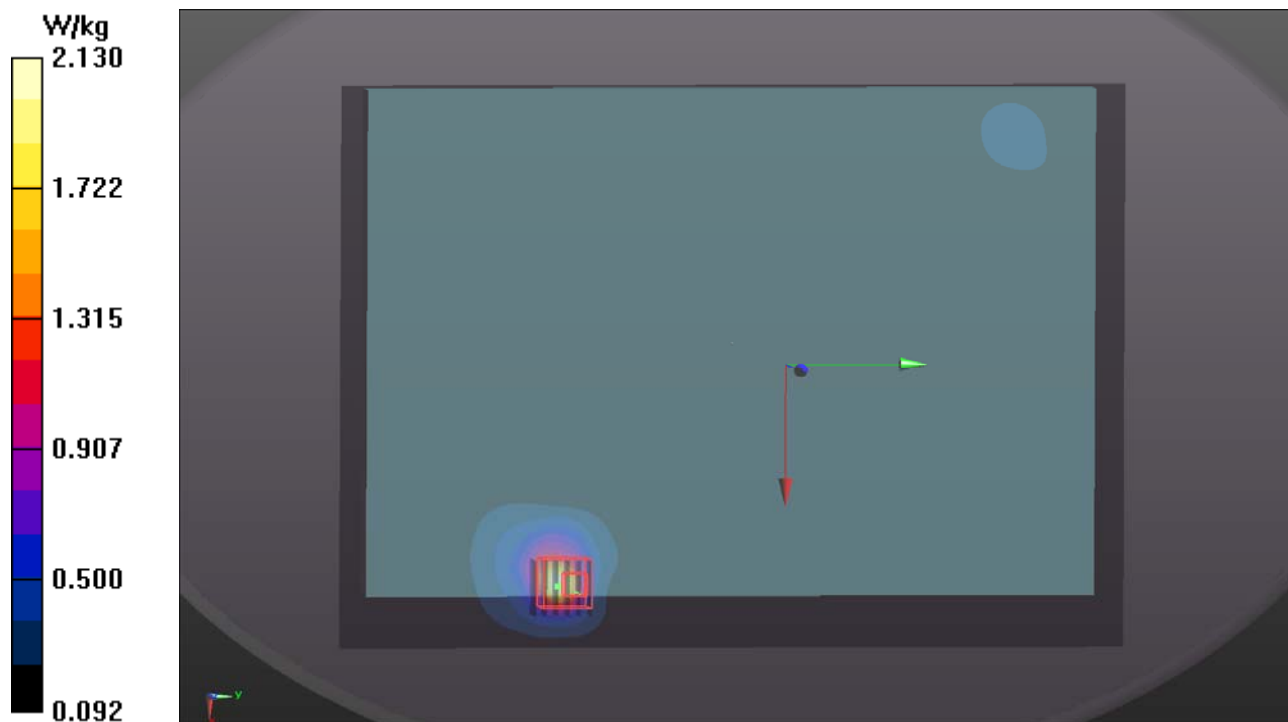
**- Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 21.13 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 4.57 W/kg

**SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.489 W/kg**

Maximum value of SAR (measured) = 2.50 W/kg



**P19 WLAN5G\_802.11ac VHT80\_Bottom\_0mm\_Ch155\_Ant1****DUT: 180315C04**

Communication System: WLAN\_5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium: B34T60N1\_0503 Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.954$  S/m;  $\epsilon_r = 48.775$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3820; ConvF(4.04, 4.04, 4.04); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7373)

**- Area Scan (251x351x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.12 W/kg

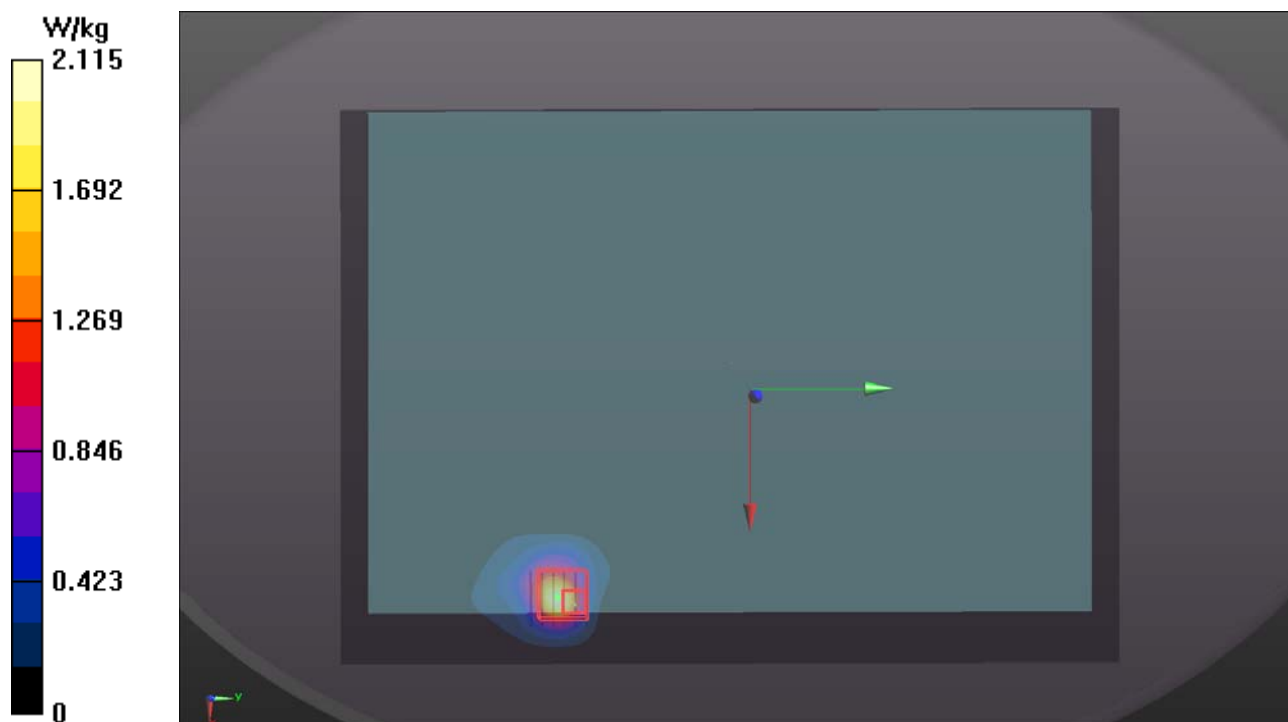
**- Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 20.02 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 4.65 W/kg

**SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.331 W/kg**

Maximum value of SAR (measured) = 2.72 W/kg



**P20 BT\_BR\_EDR\_Bottom\_0mm\_Ch39\_Ant1****DUT: 180315C04**

Communication System: BT; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium: B19T27N1\_0426 Medium parameters used:  $f = 2441$  MHz;  $\sigma = 2.021$  S/m;  $\epsilon_r = 52.216$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.5 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3650; ConvF(7.68, 7.68, 7.68); Calibrated: 2017/07/24;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2017/05/22
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7373)

- **Area Scan (211x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0247 W/kg

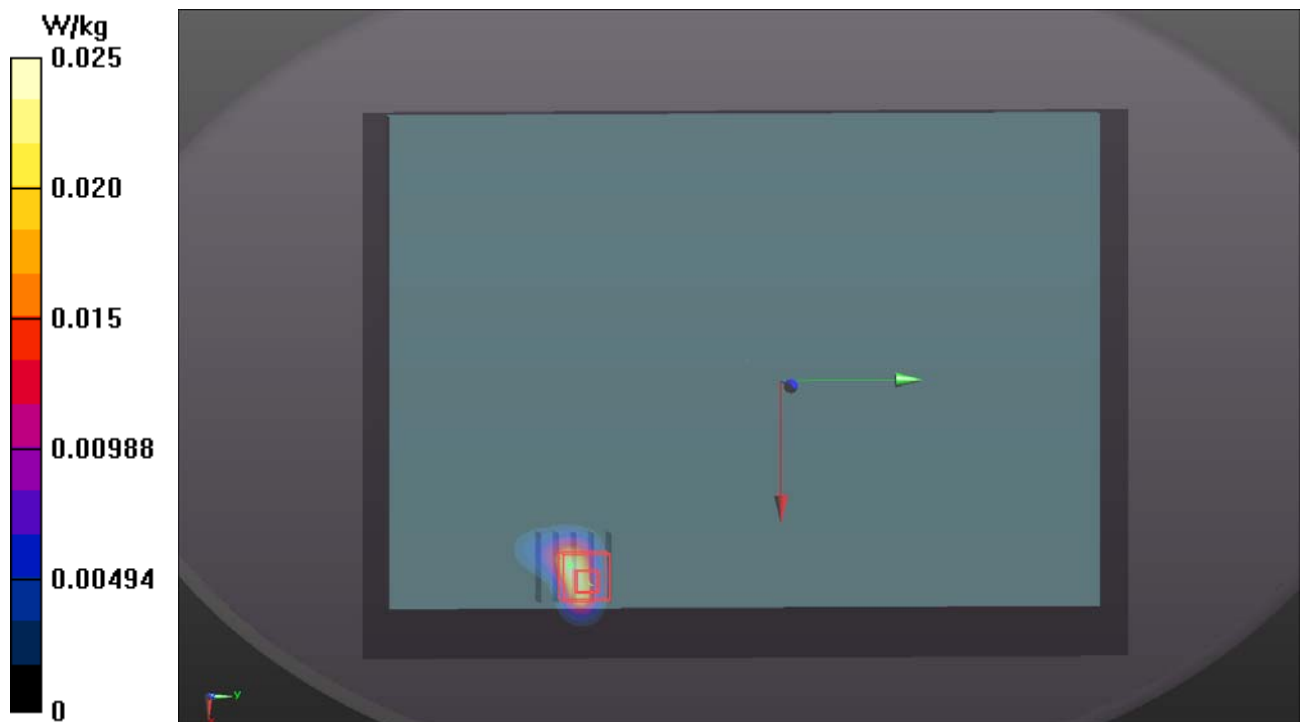
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.040 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.0540 W/kg

**SAR(1 g) = 0.025 W/kg; SAR(10 g) = 0.011 W/kg**

Maximum value of SAR (measured) = 0.0423 W/kg





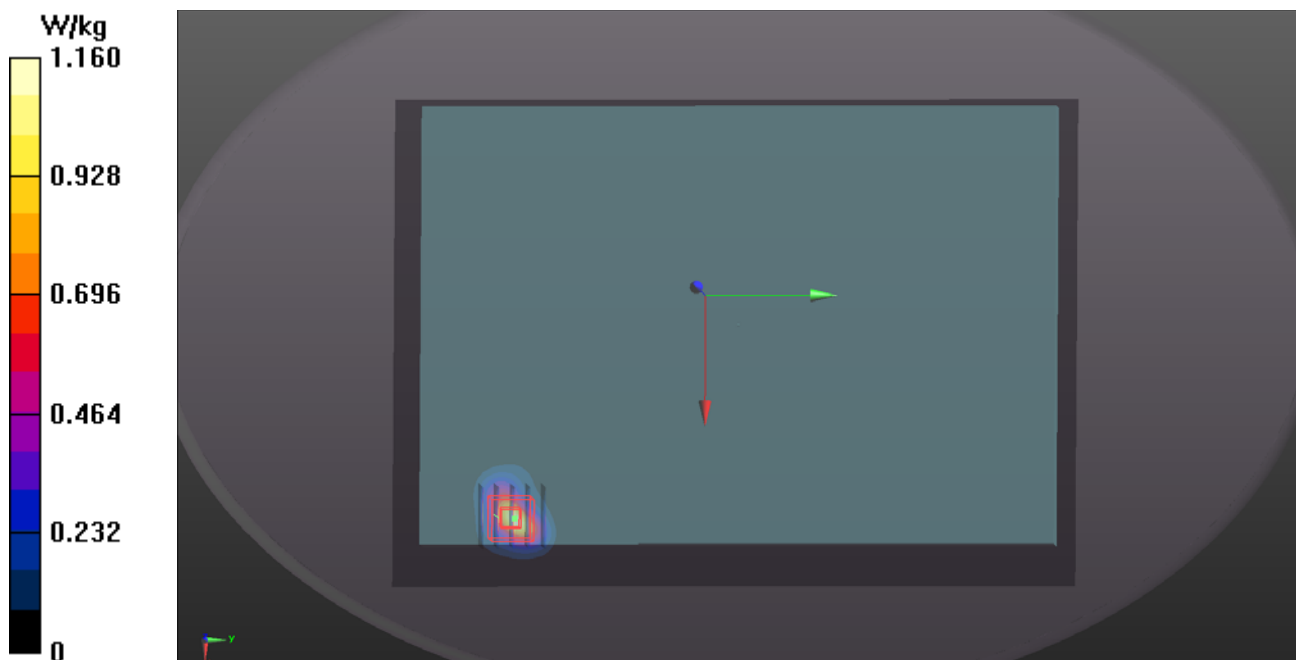
**P21 WCDMA II\_RMC12.2K\_Rear Face\_0mm\_Ch9538\_Power Reduction \_w****DUT: 180315C04**

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: B16T20N1\_0423 Medium parameters used:  $f = 1908 \text{ MHz}$ ;  $\sigma = 1.562 \text{ S/m}$ ;  $\epsilon_r = 51.45$ ;  $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature :  $23.8^\circ\text{C}$  ; Liquid Temperature :  $23.6^\circ\text{C}$ 

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.08, 8.08, 8.08); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) =  $1.16 \text{ W/kg}$ **- Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $17.36 \text{ V/m}$ ; Power Drift =  $-0.02 \text{ dB}$ Peak SAR (extrapolated) =  $2.40 \text{ W/kg}$ **SAR(1 g) =  $1.13 \text{ W/kg}$ ; SAR(10 g) =  $0.496 \text{ W/kg}$** Maximum value of SAR (measured) =  $1.91 \text{ W/kg}$ 

**P22 WCDMA IV\_RMC12.2K\_Rear Face\_0mm\_Ch1312\_Power Reduction \_w****DUT: 180315C04**

Communication System: WCDMA; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium: B16T20N1\_0423 Medium parameters used:  $f = 1712.4$  MHz;  $\sigma = 1.402$  S/m;  $\epsilon_r = 51.759$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(8.34, 8.34, 8.34); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.768 W/kg

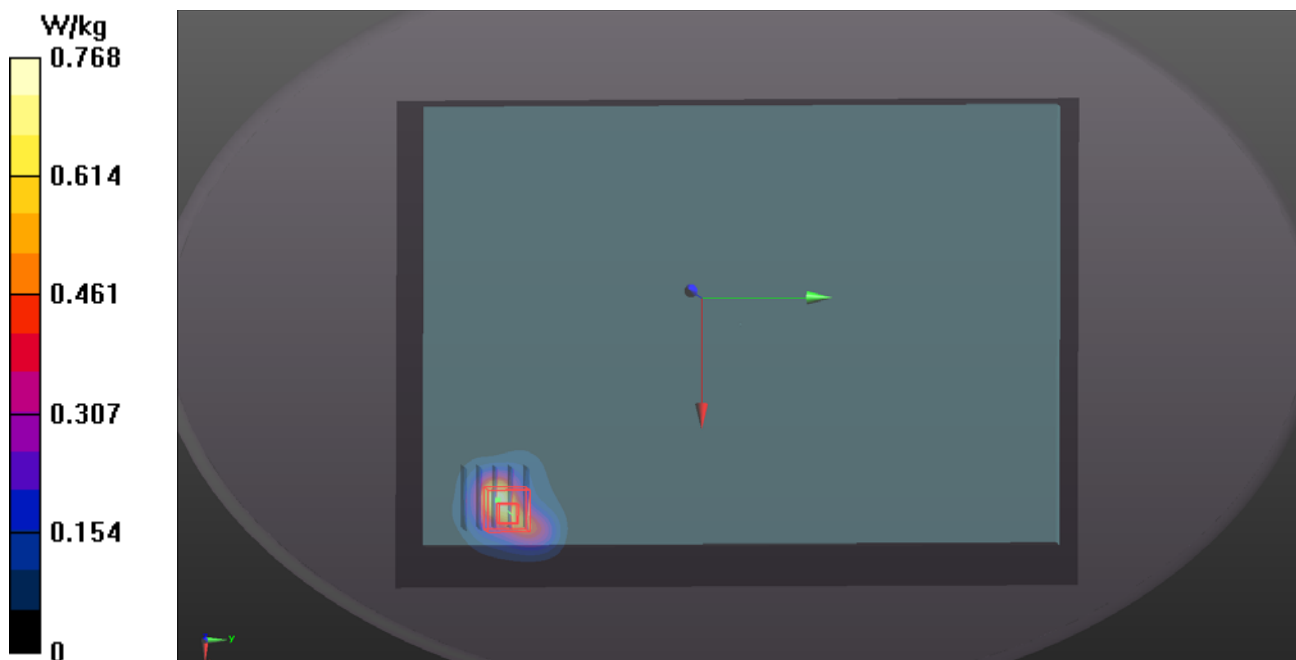
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.75 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.75 W/kg

**SAR(1 g) = 0.857 W/kg; SAR(10 g) = 0.404 W/kg**

Maximum value of SAR (measured) = 1.41 W/kg



**P23 WCDMA V\_RMC12.2K\_Rear Face\_0mm\_Ch4233\_Power Reduction \_w****DUT: 180315C04**

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: B07T10N1\_0424 Medium parameters used:  $f = 846.6$  MHz;  $\sigma = 1.018$  S/m;  $\epsilon_r = 54.093$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(10.15, 10.15, 10.15); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.13 W/kg

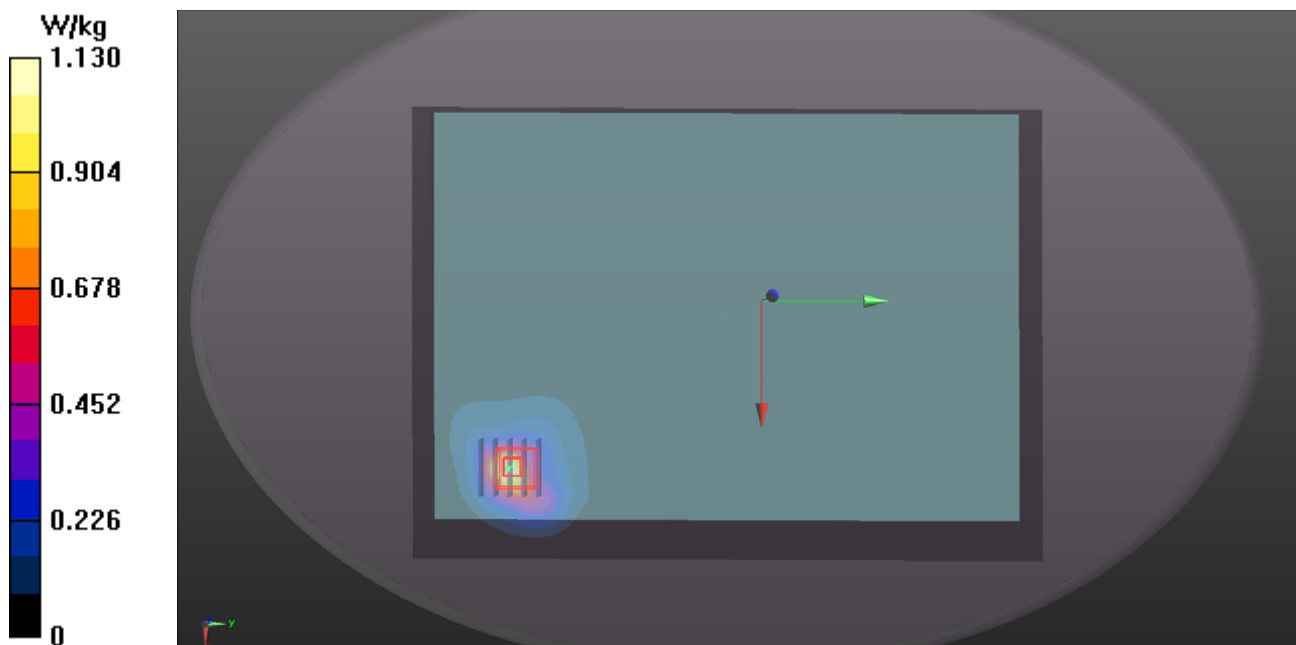
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.75 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.432 W/kg; SAR(10 g) = 0.262 W/kg**

Maximum value of SAR (measured) = 0.912 W/kg



**P24 LTE 2\_QPSK20M\_Rear Face\_0mm\_Ch19100\_50RB\_OS0\_Power Reduction \_w****DUT: 180315C04**

Communication System: LTE; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: B16T20N1\_0424 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.584$  S/m;  $\epsilon_r = 51.781$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3820; ConvF(7.62, 7.62, 7.62); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

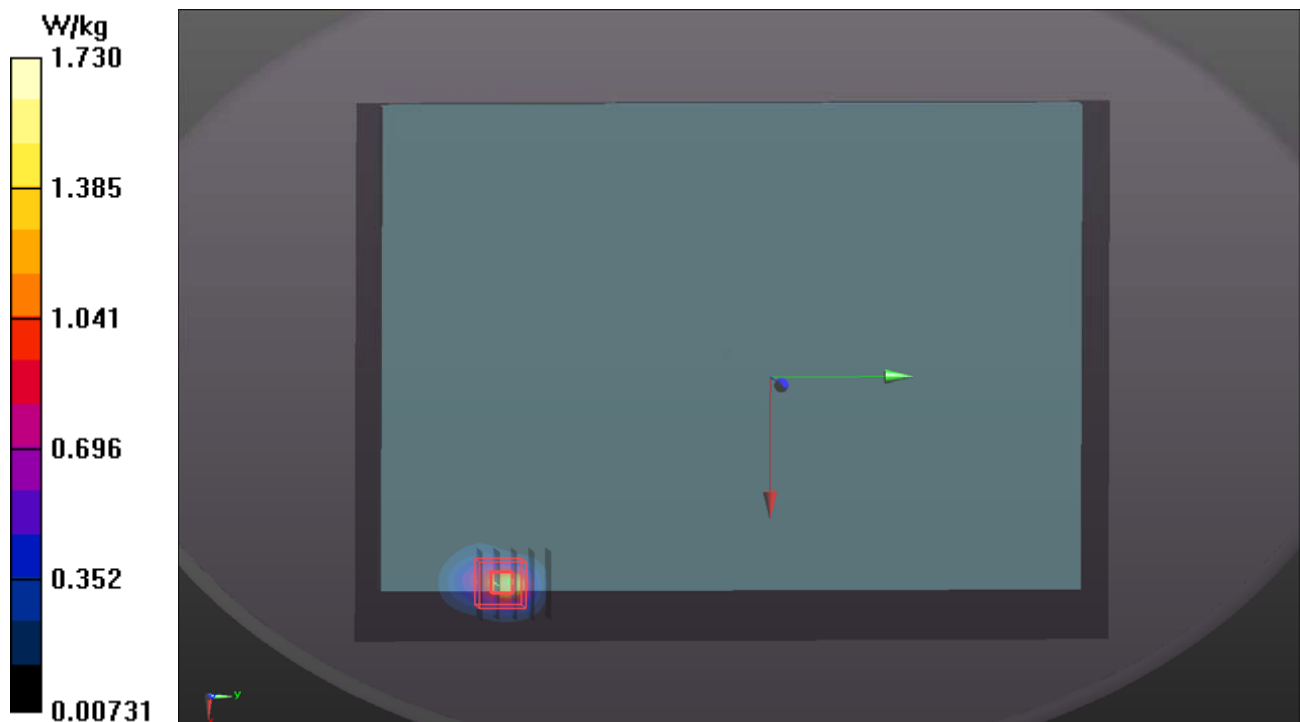
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.63 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.16 W/kg

**SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.472 W/kg**

Maximum value of SAR (measured) = 1.73 W/kg



**P25 LTE 4\_QPSK20M\_Rear Face\_0mm\_Ch20300\_50RB\_OS0\_Power Reduction\_w****DUT: 180315C04**

Communication System: LTE; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: B16T20N1\_0424 Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.453$  S/m;  $\epsilon_r = 52.183$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(7.77, 7.77, 7.77); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.74 W/kg

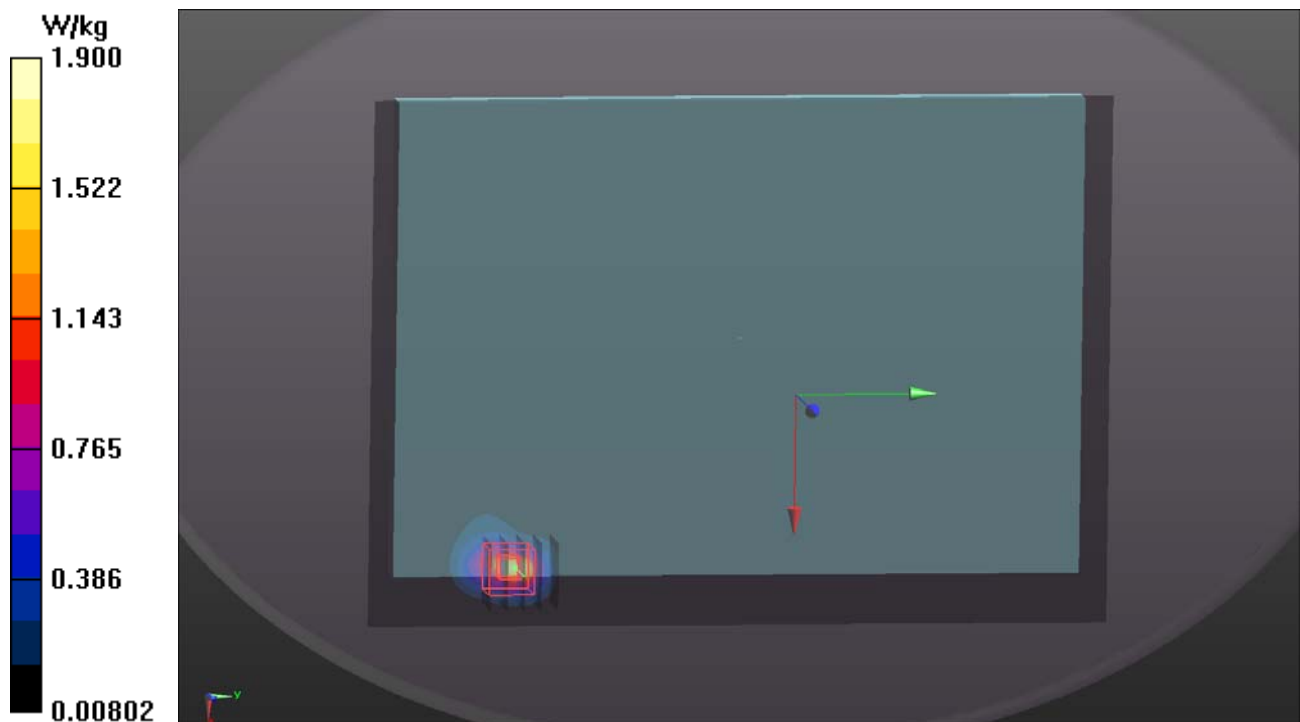
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.73 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.52 W/kg

**SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.538 W/kg**

Maximum value of SAR (measured) = 1.90 W/kg



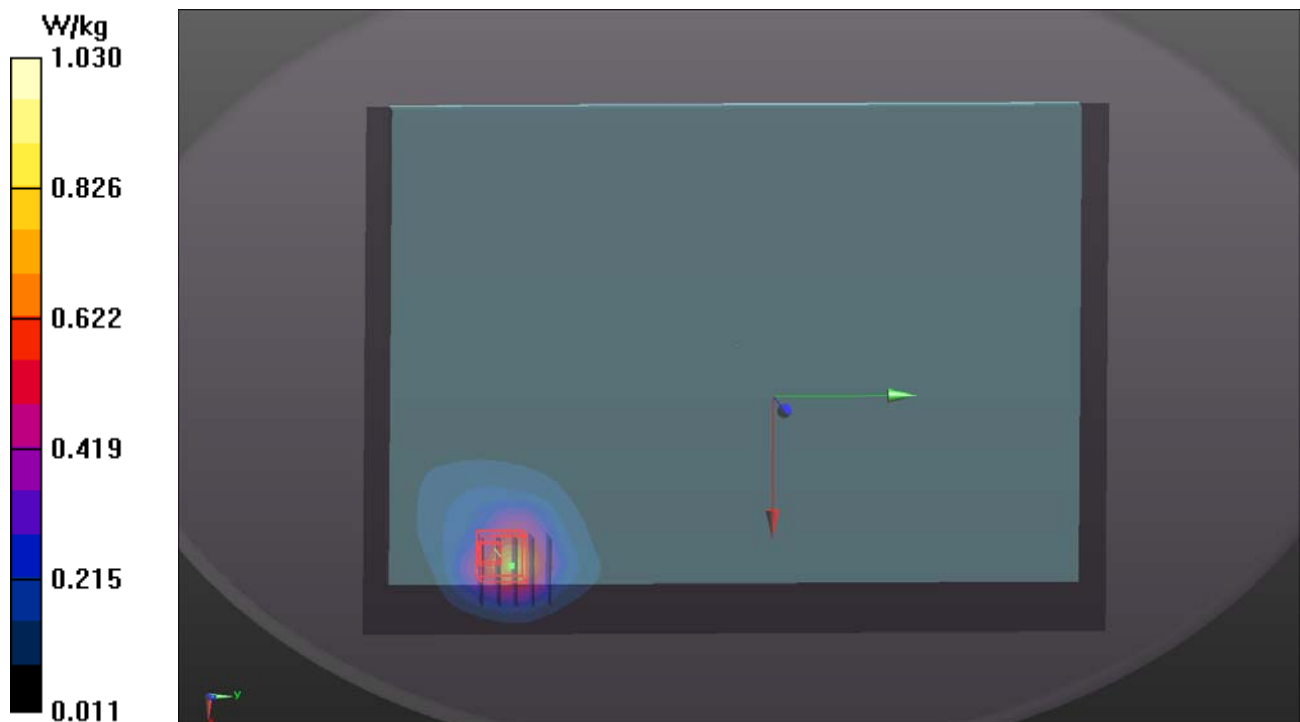
**P26 LTE 5\_QPSK10M\_Rear Face\_0mm\_Ch20450\_25RB\_OS0\_Power Reduction \_w****DUT: 180315C04**

Communication System: LTE; Frequency: 829 MHz; Duty Cycle: 1:1

Medium: B07T10N1\_0424 Medium parameters used:  $f = 829 \text{ MHz}$ ;  $\sigma = 0.967 \text{ S/m}$ ;  $\epsilon_r = 56.153$ ;  $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature :  $23.6 \text{ }^\circ\text{C}$  ; Liquid Temperature :  $23.3 \text{ }^\circ\text{C}$ 

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(9.59, 9.59, 9.59); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) =  $0.813 \text{ W/kg}$ **- Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $25.83 \text{ V/m}$ ; Power Drift =  $0.03 \text{ dB}$ Peak SAR (extrapolated) =  $1.53 \text{ W/kg}$ **SAR(1 g) =  $0.589 \text{ W/kg}$ ; SAR(10 g) =  $0.282 \text{ W/kg}$** Maximum value of SAR (measured) =  $1.03 \text{ W/kg}$ 

**P27 LTE 7\_QPSK20M\_Rear Face\_0mm\_Ch20850\_50RB\_OS0\_Power Reduction \_w****DUT: 180315C04**

Communication System: LTE; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: B19T27N5\_0423 Medium parameters used:  $f = 2510$  MHz;  $\sigma = 2.065$  S/m;  $\epsilon_r = 51.219$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.36, 7.36, 7.36); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (221x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.41 W/kg

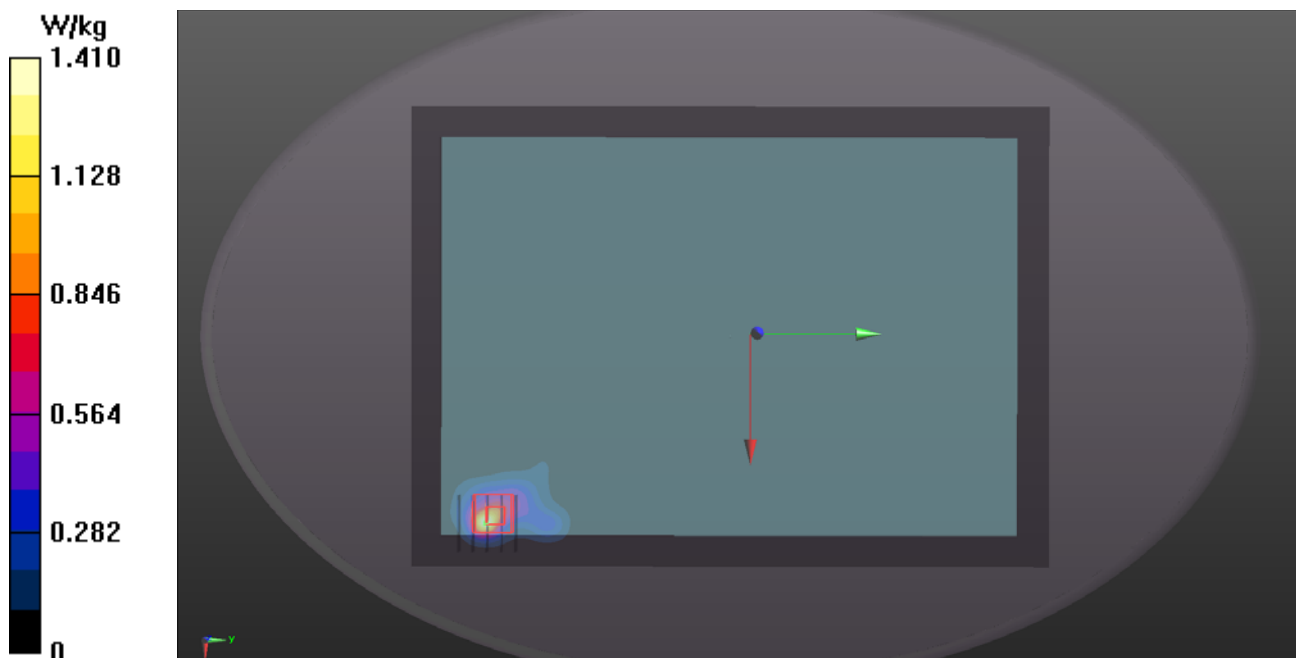
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.11 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.56 W/kg

**SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.449 W/kg**

Maximum value of SAR (measured) = 1.61 W/kg



**P28 LTE 12\_QPSK10M\_Rear Face\_0mm\_Ch23060\_1RB\_OS24\_Power Reduction \_w****DUT: 180315C04**

Communication System: LTE; Frequency: 704 MHz; Duty Cycle: 1:1

Medium: B06T09N1\_0424 Medium parameters used:  $f = 704$  MHz;  $\sigma = 0.926$  S/m;  $\epsilon_r = 54.282$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(9.47, 9.47, 9.47); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.24 W/kg

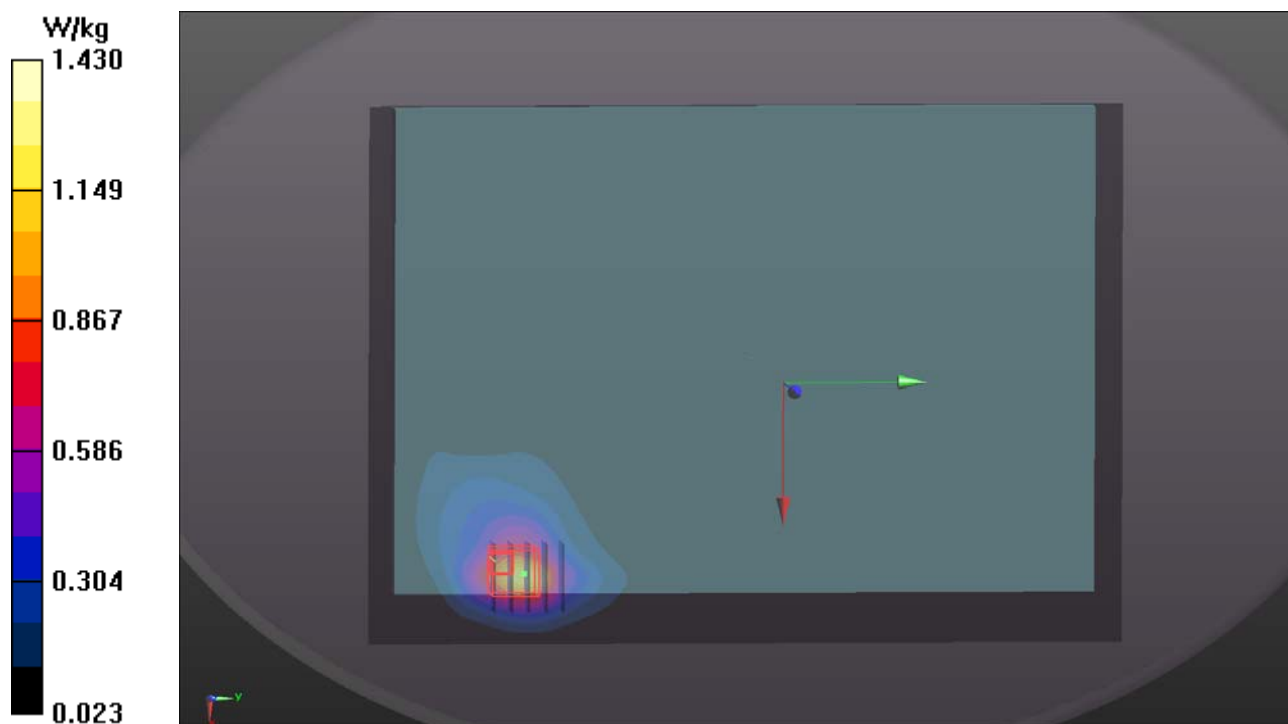
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.40 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.13 W/kg

**SAR(1 g) = 0.745 W/kg; SAR(10 g) = 0.401 W/kg**

Maximum value of SAR (measured) = 1.43 W/kg





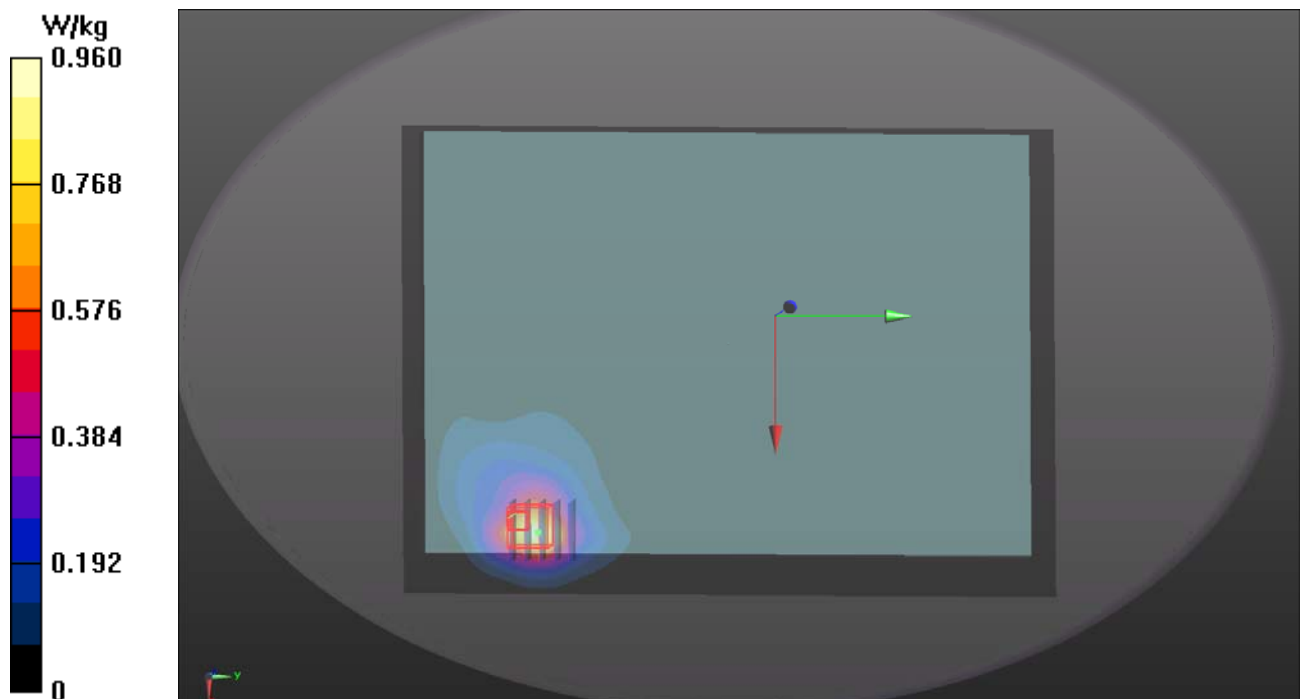
**P29 LTE 13\_QPSK10M\_Rear Face\_0mm\_Ch23230\_25RB\_OS0\_Power Reduction\_w****DUT: 180315C04**

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: B06T09N1\_0424 Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 1 \text{ S/m}$ ;  $\epsilon_r = 53.474$ ;  $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature :  $23.6 \text{ }^\circ\text{C}$  ; Liquid Temperature :  $23.3 \text{ }^\circ\text{C}$ 

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(9.47, 9.47, 9.47); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) =  $0.960 \text{ W/kg}$ **- Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $28.61 \text{ V/m}$ ; Power Drift =  $-0.02 \text{ dB}$ Peak SAR (extrapolated) =  $1.96 \text{ W/kg}$ **SAR(1 g) =  $0.640 \text{ W/kg}$ ; SAR(10 g) =  $0.322 \text{ W/kg}$** Maximum value of SAR (measured) =  $1.31 \text{ W/kg}$ 

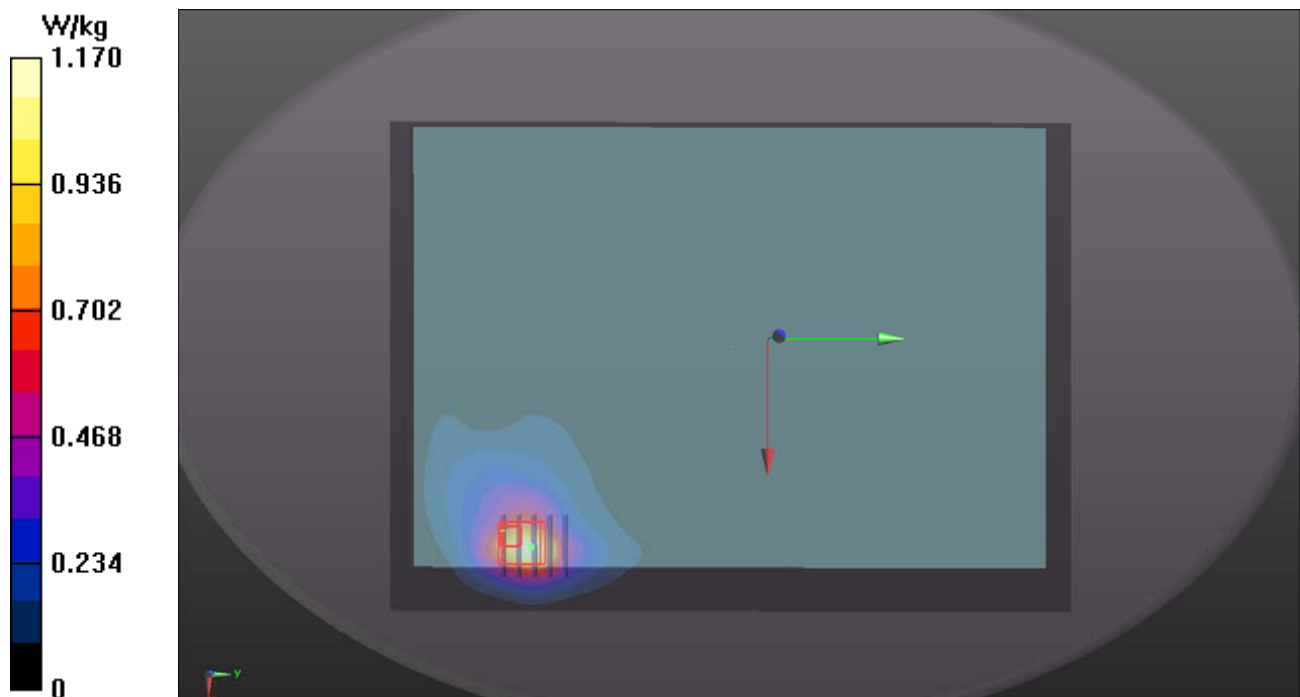
**P30 LTE 17\_QPSK10M\_Rear Face\_0mm\_Ch23780\_1RB\_OS49\_Power Reduction\_w****DUT: 180315C04**

Communication System: LTE; Frequency: 709 MHz; Duty Cycle: 1:1

Medium: B06T09N1\_0424 Medium parameters used:  $f = 709 \text{ MHz}$ ;  $\sigma = 0.93 \text{ S/m}$ ;  $\epsilon_r = 54.24$ ;  $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature :  $23.6 \text{ }^\circ\text{C}$  ; Liquid Temperature :  $23.3 \text{ }^\circ\text{C}$ 

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(9.47, 9.47, 9.47); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) =  $1.17 \text{ W/kg}$ **- Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $33.29 \text{ V/m}$ ; Power Drift =  $-0.07 \text{ dB}$ Peak SAR (extrapolated) =  $2.07 \text{ W/kg}$ **SAR(1 g) =  $0.712 \text{ W/kg}$ ; SAR(10 g) =  $0.378 \text{ W/kg}$** Maximum value of SAR (measured) =  $1.38 \text{ W/kg}$ 

**P31 LTE 26\_QPSK15M\_Rear Face\_0mm\_Ch26765\_1RB\_OS37\_Power Reduction\_w****DUT: 180315C04**

Communication System: LTE; Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium: B07T10N1\_0424 Medium parameters used:  $f = 821.5$  MHz;  $\sigma = 0.96$  S/m;  $\epsilon_r = 56.222$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(9.59, 9.59, 9.59); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.673 W/kg

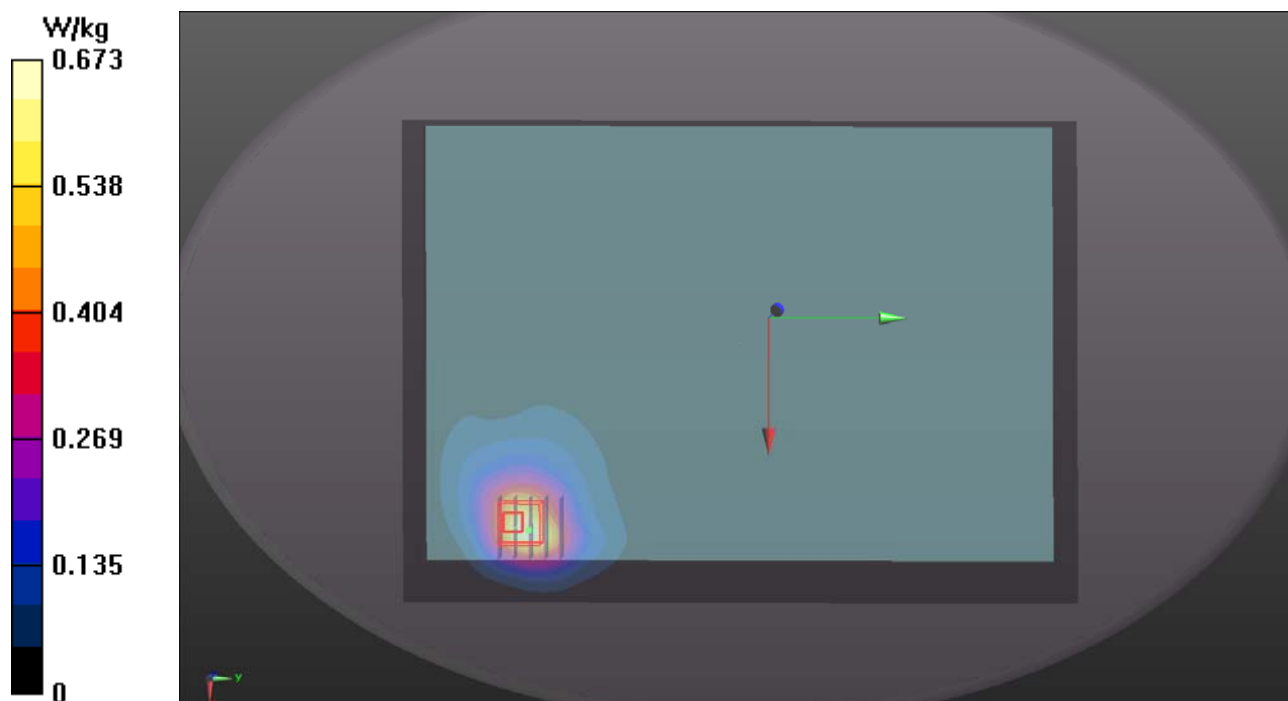
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.62 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.45 W/kg

**SAR(1 g) = 0.585 W/kg; SAR(10 g) = 0.289 W/kg**

Maximum value of SAR (measured) = 1.09 W/kg



**P32 LTE 30\_QPSK10M\_Rear Face\_20mm\_Ch27710\_1RB\_OS0\_Power Reduction \_w\_o****DUT: 180315C04**

Communication System: LTE; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: B19T27N5\_0423 Medium parameters used:  $f = 2310$  MHz;  $\sigma = 1.847$  S/m;  $\epsilon_r = 51.716$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.75, 7.75, 7.75); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (211x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.02 W/kg

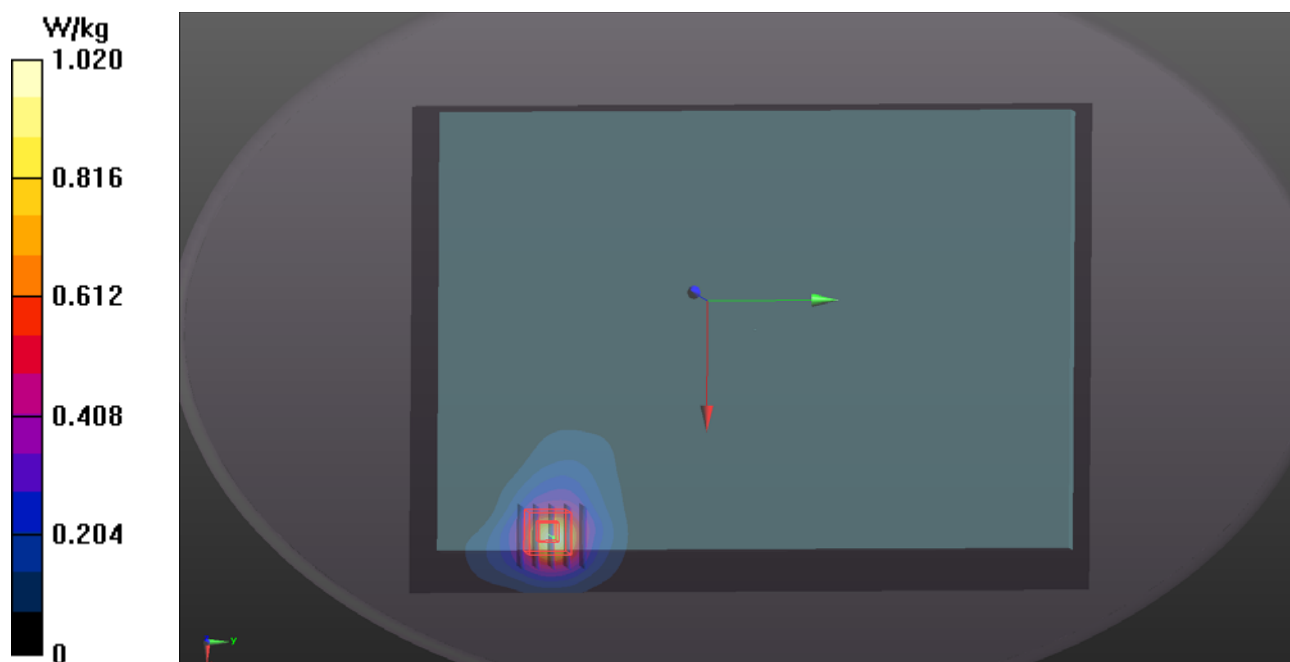
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.99 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.38 W/kg

**SAR(1 g) = 0.770 W/kg; SAR(10 g) = 0.410 W/kg**

Maximum value of SAR (measured) = 1.07 W/kg



**P33 LTE 38\_QPSK20M\_Rear Face\_0mm\_Ch37850\_1RB\_OS99\_Power Reduction \_w****DUT: 180315C04**

Communication System: LTE TDD CF0; Frequency: 2580 MHz; Duty Cycle: 1:1.58

Medium: B19T27N5\_0423 Medium parameters used:  $f = 2580$  MHz;  $\sigma = 2.146$  S/m;  $\epsilon_r = 51.018$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.36, 7.36, 7.36); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 22018/03/16
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (221x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.20 W/kg

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

Reference Value = 20.75 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.70 W/kg

**SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.432 W/kg**

Maximum value of SAR (measured) = 1.77 W/kg



**P34 LTE 41\_QPSK20M\_Rear Face\_0mm\_Ch40185\_1RB\_OS0\_Power Reduction \_w****DUT: 180315C04**

Communication System: LTE TDD CF0; Frequency: 2549.5 MHz; Duty Cycle: 1:1.58

Medium: B19T27N5\_0423 Medium parameters used:  $f = 2550$  MHz;  $\sigma = 2.112$  S/m;  $\epsilon_r = 51.105$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.5 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3971; ConvF(7.36, 7.36, 7.36); Calibrated: 2018/03/26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2017/03/20
- Phantom: ELI Phantom\_1039; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)

**- Area Scan (221x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.44 W/kg

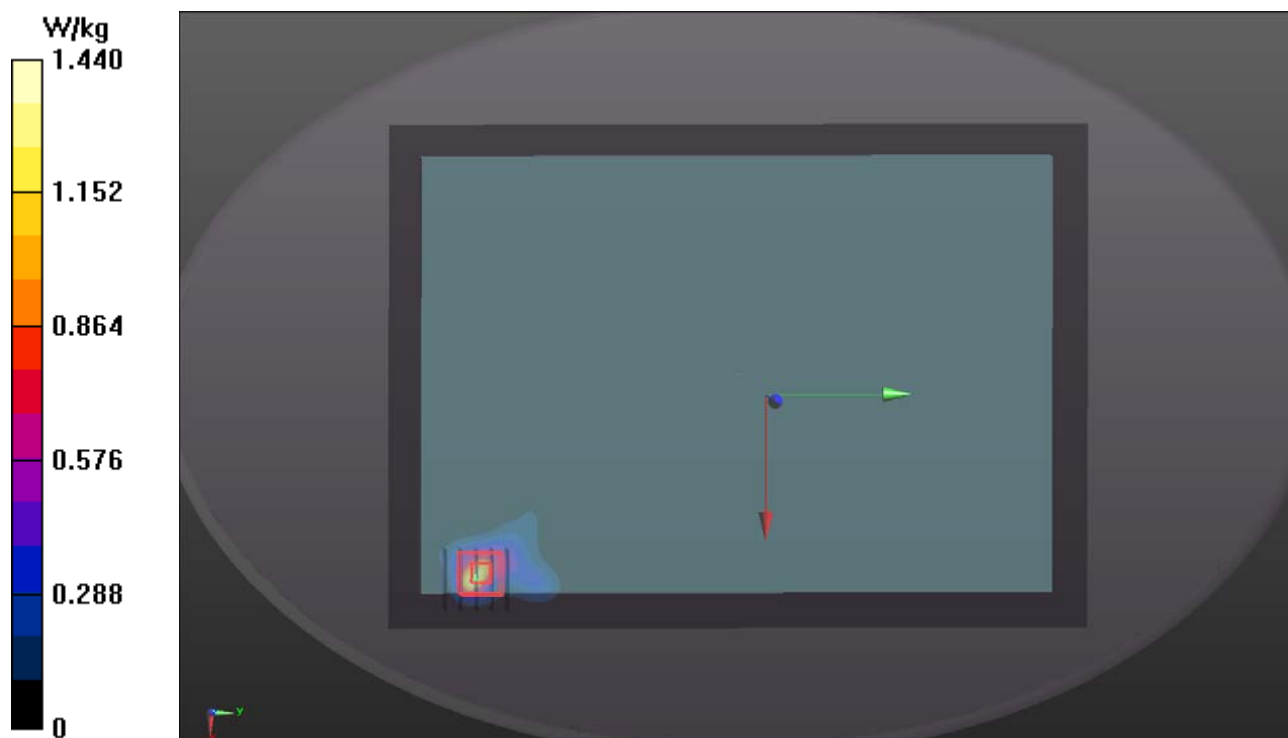
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.23 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.34 W/kg

**SAR(1 g) = 0.993 W/kg; SAR(10 g) = 0.429 W/kg**

Maximum value of SAR (measured) = 1.67 W/kg



**P35 LTE 66\_QPSK20M\_Rear Face\_0mm\_Ch132072\_1RB\_OS0\_Power Reduction\_w****DUT: 180315C04**

Communication System: LTE; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: B16T20N1\_0424 Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.428$  S/m;  $\epsilon_r = 52.276$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3820; ConvF(7.77, 7.77, 7.77); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

**- Area Scan (171x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.22 W/kg

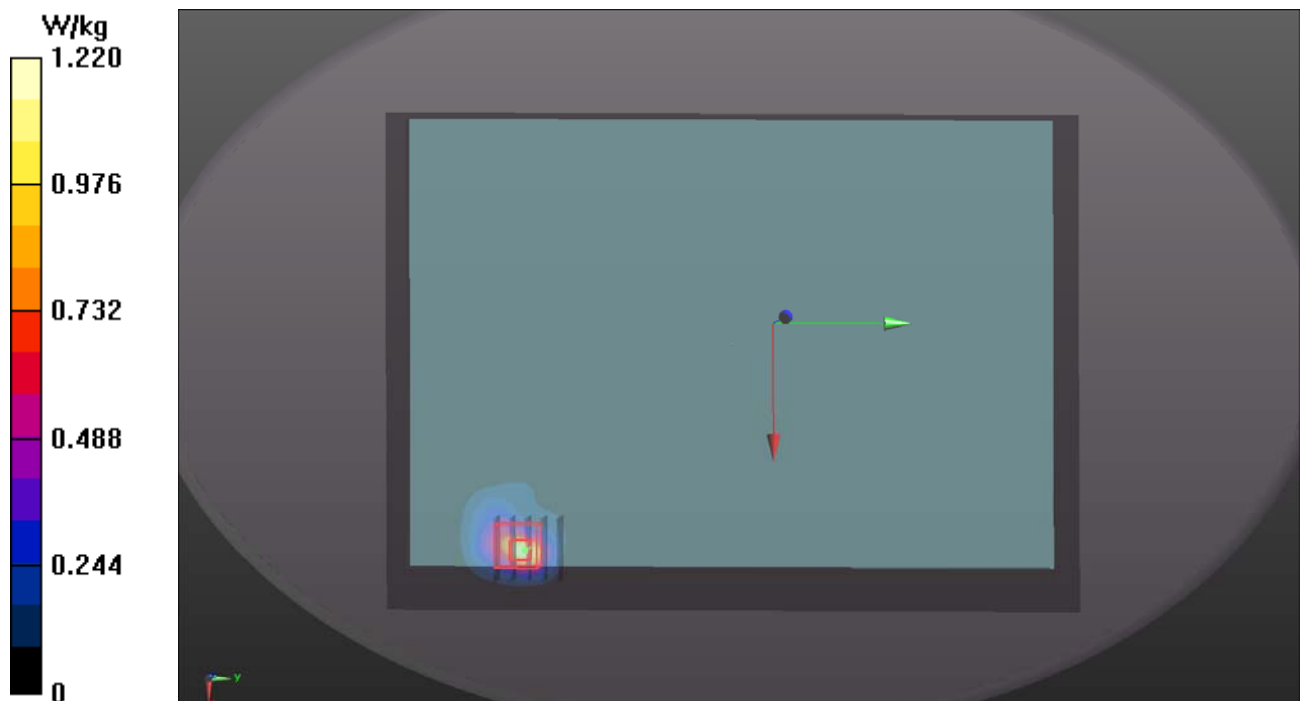
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.95 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.97 W/kg

**SAR(1 g) = 0.933 W/kg; SAR(10 g) = 0.439 W/kg**

Maximum value of SAR (measured) = 1.54 W/kg



**P36 WLAN2.4G\_802.11n HT20\_Rear Face\_0mm\_Ch6\_Ant0+1****DUT: 180315C04**

Communication System: WLAN\_2.4G; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: B19T27N3\_0504 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 2.003$  S/m;  $\epsilon_r = 51.43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3820; ConvF(7.1, 7.1, 7.1); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7373)

**- Area Scan (211x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.38 W/kg

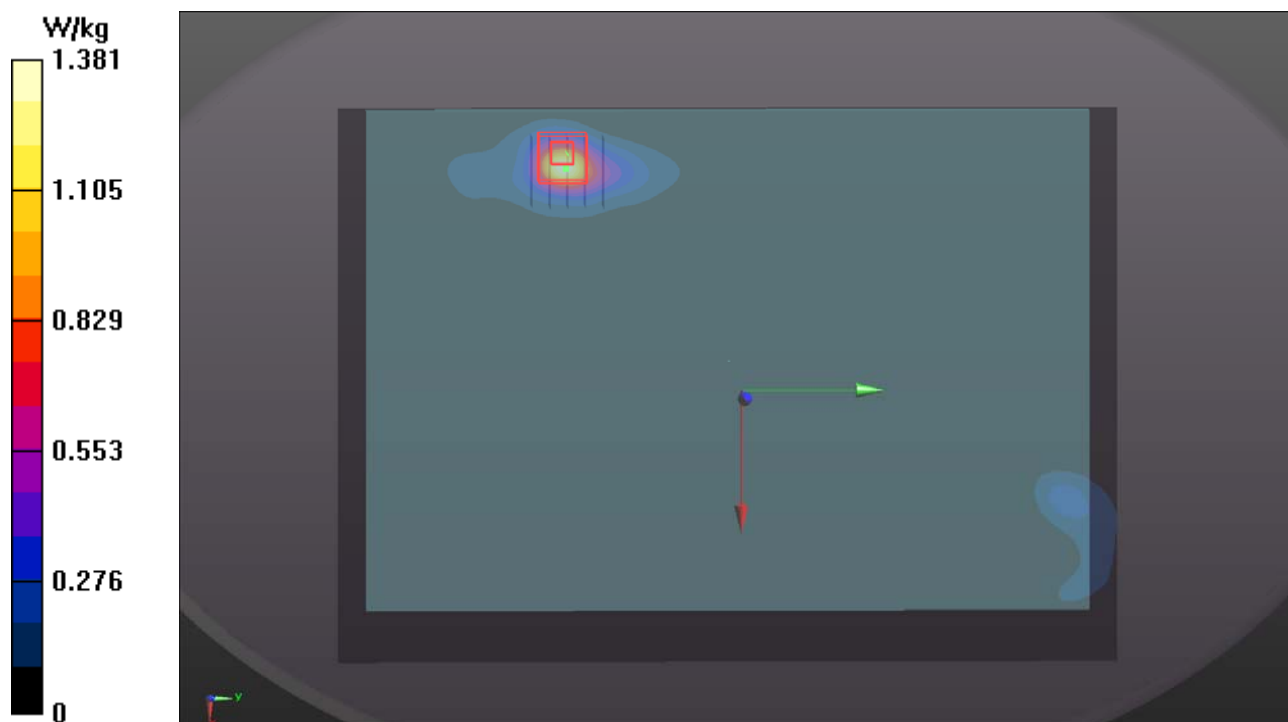
**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.75 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.69 W/kg

**SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.384 W/kg**

Maximum value of SAR (measured) = 2.19 W/kg





**P37 WLAN5G\_802.11ac VHT80\_Rear Face\_0mm\_Ch58\_Ant0****DUT: 180315C04**

Communication System: WLAN\_5G; Frequency: 5290 MHz; Duty Cycle: 1:1

Medium: B34T60N1\_0503 Medium parameters used:  $f = 5290$  MHz;  $\sigma = 5.31$  S/m;  $\epsilon_r = 49.498$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3820; ConvF(4.39, 4.39, 4.39); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7373)

**- Area Scan (251x351x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 0.258 W/kg

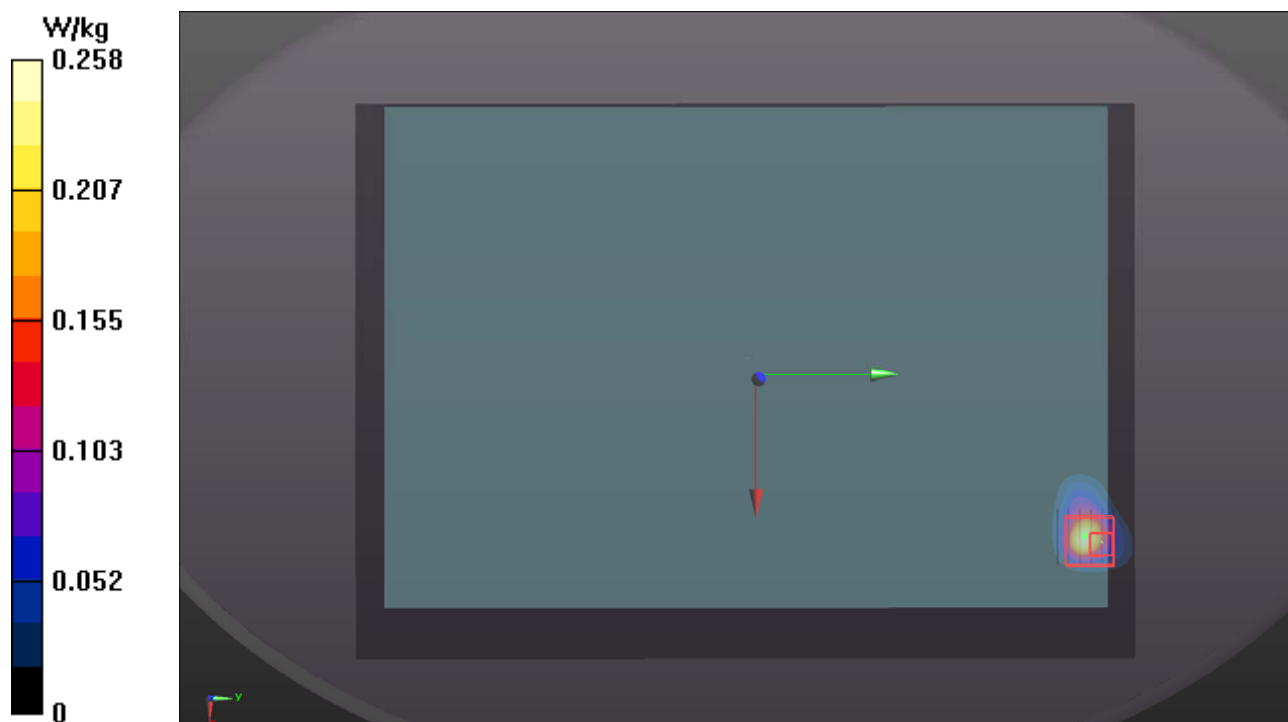
**- Zoom Scan (6x6x12)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=2$ mm

Reference Value = 6.975 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 5.49 W/kg

**SAR(1 g) = 0.957 W/kg; SAR(10 g) = 0.157 W/kg**

Maximum value of SAR (measured) = 2.87 W/kg



**P38 WLAN5G\_802.11ac VHT80\_Rear Face\_0mm\_Ch106\_Ant0+1****DUT: 180315C04**

Communication System: WLAN\_5G; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium: B34T60N1\_0503 Medium parameters used:  $f = 5530$  MHz;  $\sigma = 5.617$  S/m;  $\epsilon_r = 49.123$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.4 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3820; ConvF(3.94, 3.94, 3.94); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7373)

**- Area Scan (251x351x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

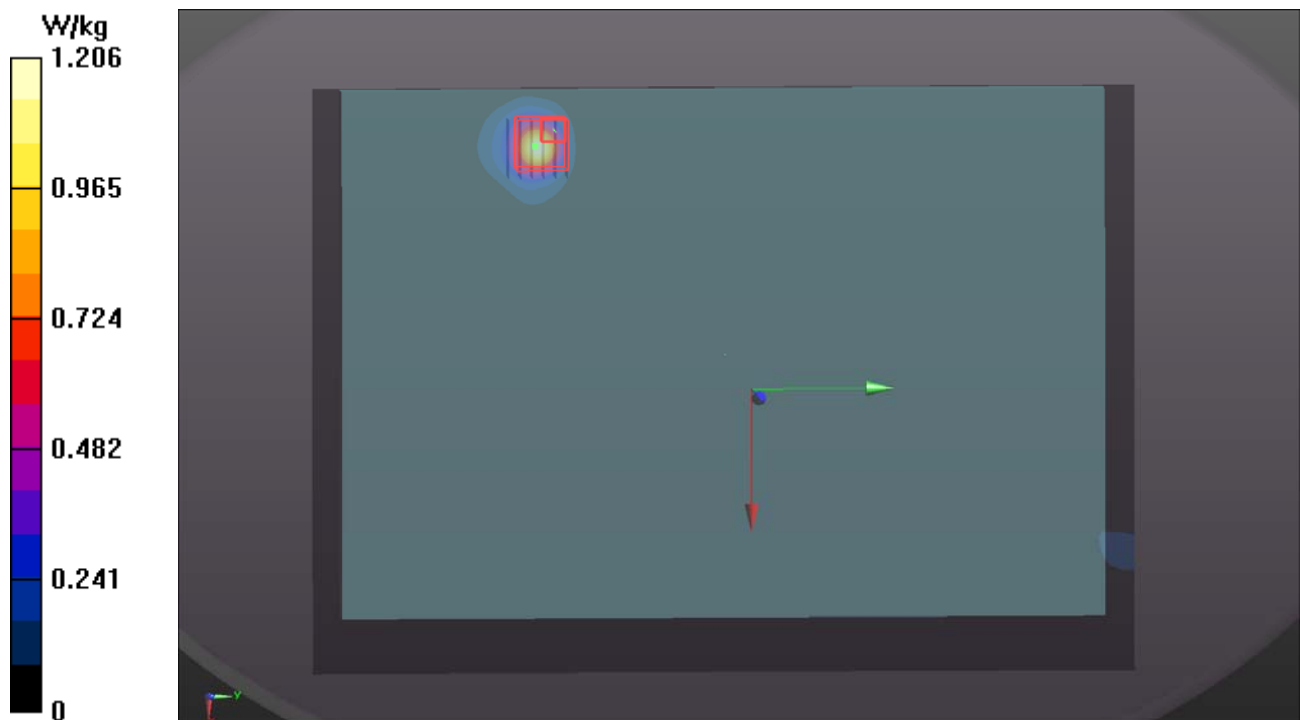
**- Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 15.61 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 3.60 W/kg

**SAR(1 g) = 0.915 W/kg; SAR(10 g) = 0.347 W/kg**

Maximum value of SAR (measured) = 1.92 W/kg



**P39 WLAN5G\_802.11ac VHT80\_Rear Face\_0mm\_Ch155\_Ant0+1****DUT: 180315C04**

Communication System: WLAN\_5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium: B34T60N1\_0503 Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.954$  S/m;  $\epsilon_r = 48.775$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.8 °C ; Liquid Temperature : 23.4 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3820; ConvF(4.04, 4.04, 4.04); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7373)

**- Area Scan (251x351x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.65 W/kg

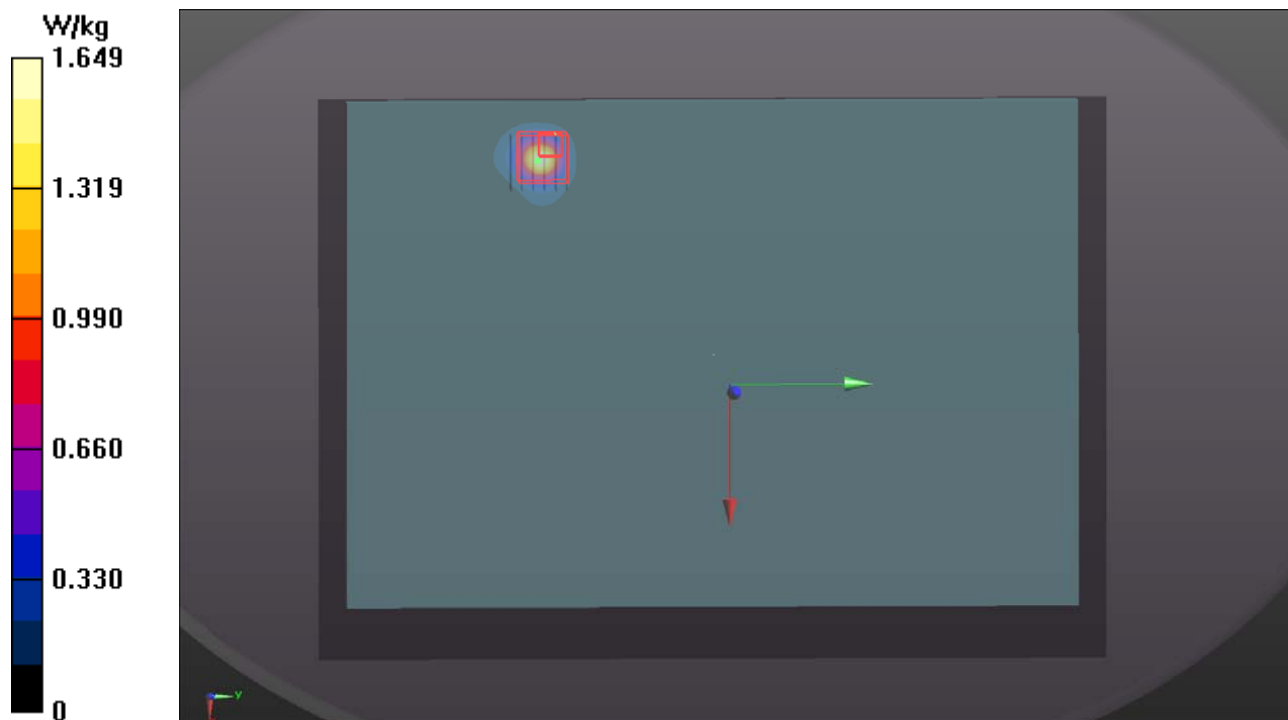
**- Zoom Scan (6x6x12)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 18.46 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 4.17 W/kg

**SAR(1 g) = 0.868 W/kg; SAR(10 g) = 0.274 W/kg**

Maximum value of SAR (measured) = 2.25 W/kg



**P40 BT\_Rear Face\_0mm\_Ch39****DUT: 180315C04**

Communication System: BT; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium: B19T27N1\_0425 Medium parameters used:  $f = 2441$  MHz;  $\sigma = 2.036$  S/m;  $\epsilon_r = 52.081$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3820; ConvF(7.1, 7.1, 7.1); Calibrated: 2017/06/27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn917; Calibrated: 2017/12/14
- Phantom: ELI Phantom\_1245; Type: QDOVA;
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7373)

**- Area Scan (211x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.486 W/kg

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

Reference Value = 15.60 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.953 W/kg

**SAR(1 g) = 0.351 W/kg; SAR(10 g) = 0.134 W/kg**

Maximum value of SAR (measured) = 0.752 W/kg

