Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.27

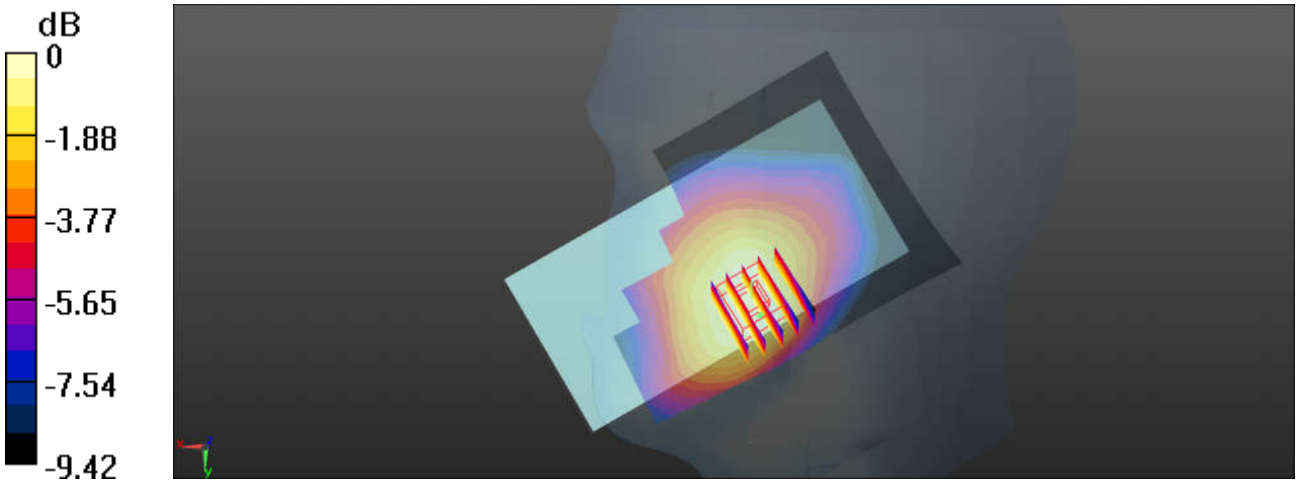
**06_CDMA2000 BC0_RC3 SO55_Right Cheek_0mm_Ch777**

Communication System: UID 0, CDMA2000 (0); Frequency: 848.31 MHz;Duty Cycle: 1:1
Medium: HSL_835 Medium parameters used: f = 848.31 MHz; $\sigma$ = 0.92 S/m; $\varepsilon_r$ = 42.04; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(10.31, 10.31, 10.31); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch777/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.259 W/kg

**Ch777/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.582 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.292 W/kg
**SAR(1 g) = 0.229 W/kg; SAR(10 g) = 0.176 W/kg**
Maximum value of SAR (measured) = 0.262 W/kg




0 dB = 0.262 W/kg = -5.82 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.27

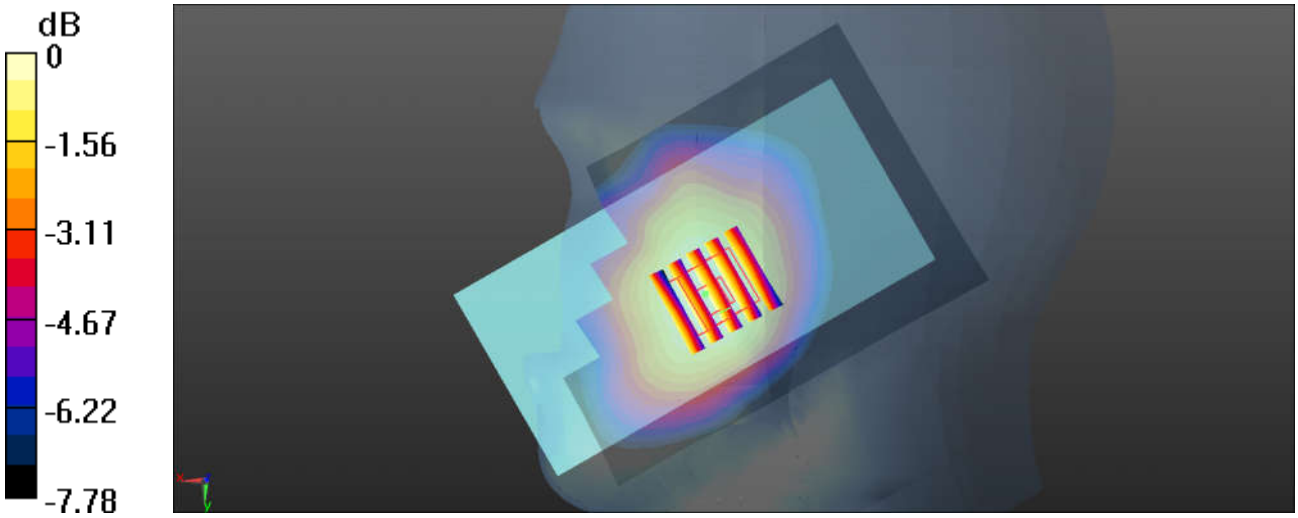
**07_LTE Band 12_10M_QPSK_1RB_0Offset_Right Cheek_0mm_Ch23095**

Communication System: UID 0, FDD_LTE (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium: HSL_750 Medium parameters used: f = 707.5 MHz; $\sigma$ = 0.873 S/m; $\varepsilon_r$ = 43.37; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(10.59, 10.59, 10.59); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch23095/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.144 W/kg

**Ch23095/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.956 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.154 W/kg
**SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.103 W/kg**
Maximum value of SAR (measured) = 0.142 W/kg




0 dB = 0.142 W/kg = -8.48 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.27

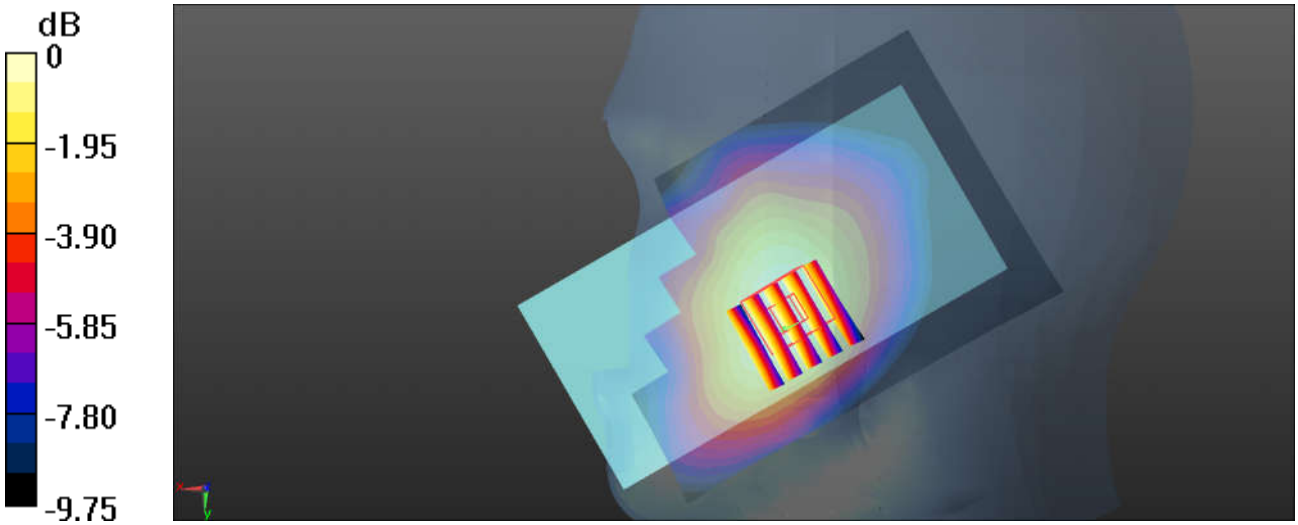
**08_LTE Band 5_10M_QPSK_1RB_0Offset_Right Cheek_0mm_Ch20525**

Communication System: UID 0, FDD_LTE (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: HSL_835 Medium parameters used: f = 836.5 MHz; $\sigma$ = 0.909 S/m; $\varepsilon_r$ = 42.186; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(10.31, 10.31, 10.31); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch20525/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.235 W/kg

**Ch20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.768 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.254 W/kg
**SAR(1 g) = 0.204 W/kg; SAR(10 g) = 0.157 W/kg**
Maximum value of SAR (measured) = 0.232 W/kg




0 dB = 0.232 W/kg = -6.35 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.23

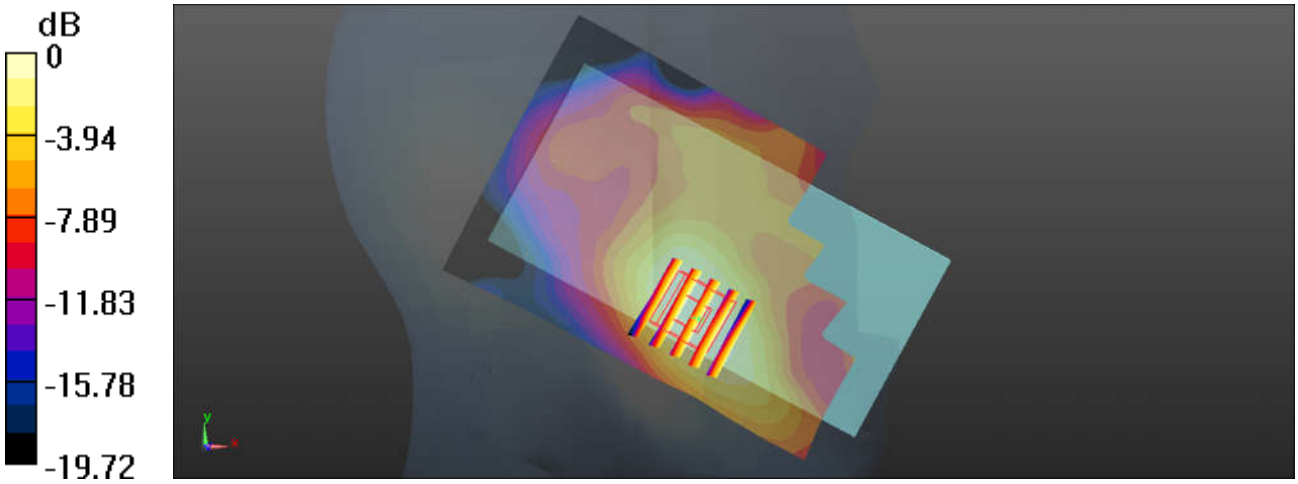
**09_LTE Band 4_20M_QPSK_1RB_0Offset_Left Cheek_0mm_Ch20175**

Communication System: UID 0, FDD_LTE (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium: HSL_1750 Medium parameters used: f = 1732.5 MHz; $\sigma$ = 1.333 S/m; $\varepsilon_r$ = 40.169; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(8.81, 8.81, 8.81); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch20175/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0895 W/kg

**Ch20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.813 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.106 W/kg
**SAR(1 g) = 0.072 W/kg; SAR(10 g) = 0.046 W/kg**
Maximum value of SAR (measured) = 0.0886 W/kg




0 dB = 0.0886 W/kg = -10.53 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.24

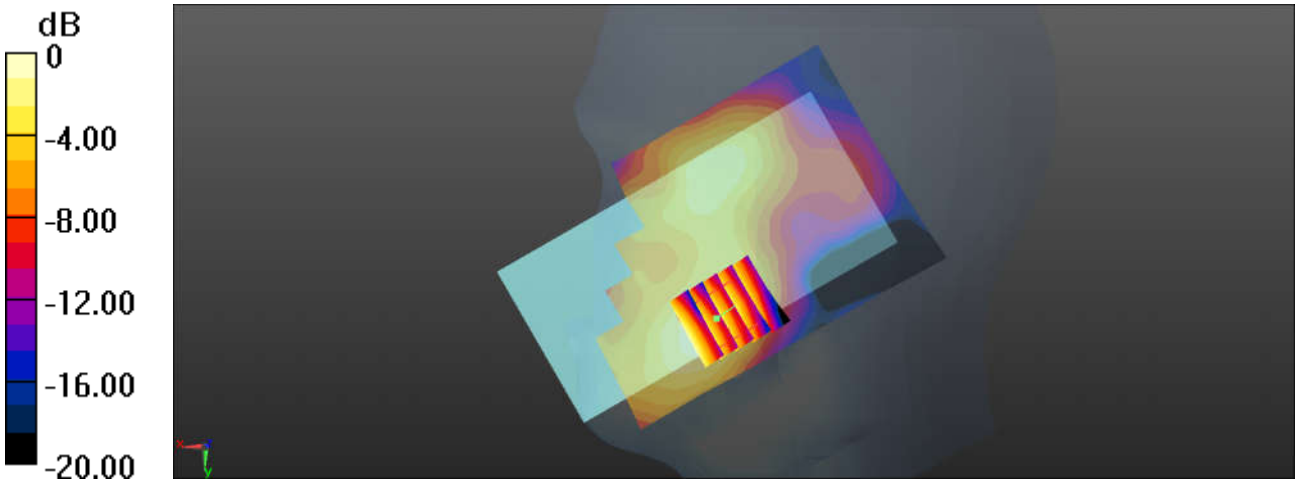
**10_LTE Band 2_20M_QPSK_1RB_0Offset_Right Cheek_0mm_Ch18900**

Communication System: UID 0, FDD_LTE (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: HSL_1900 Medium parameters used: f = 1880 MHz; $\sigma$ = 1.375 S/m; $\varepsilon_r$ = 40.636; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(8.41, 8.41, 8.41); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch18900/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0796 W/kg

**Ch18900/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.834 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.0980 W/kg
**SAR(1 g) = 0.061 W/kg; SAR(10 g) = 0.037 W/kg**
Maximum value of SAR (measured) = 0.0795 W/kg




0 dB = 0.0795 W/kg = -11.00 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.26

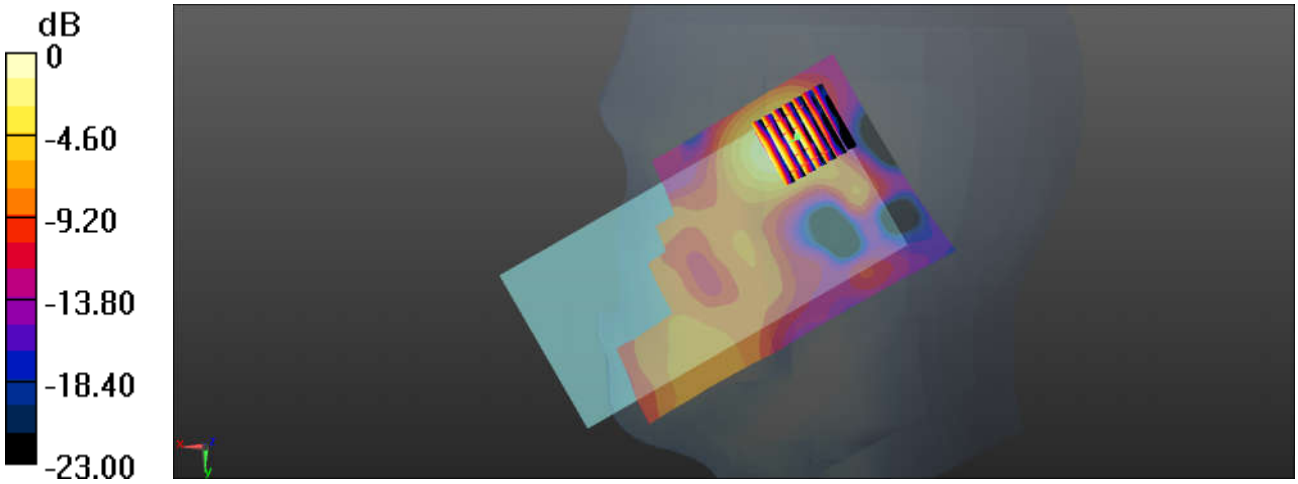
**11_LTE Band 7_20M_QPSK_1RB_0Offset_Right Tilted_0mm_Ch21100**

Communication System: UID 0, FDD_LTE (0); Frequency: 2535 MHz;Duty Cycle: 1:1
Medium: HSL_2600 Medium parameters used: f = 2535 MHz; $\sigma$ = 1.924 S/m; $\varepsilon_r$ = 37.996; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.34, 7.34, 7.34); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch21100/Area Scan (81x151x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.118 W/kg

**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.688 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.150 W/kg
**SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.036 W/kg**
Maximum value of SAR (measured) = 0.113 W/kg




0 dB = 0.113 W/kg = -9.47 dBW/kg

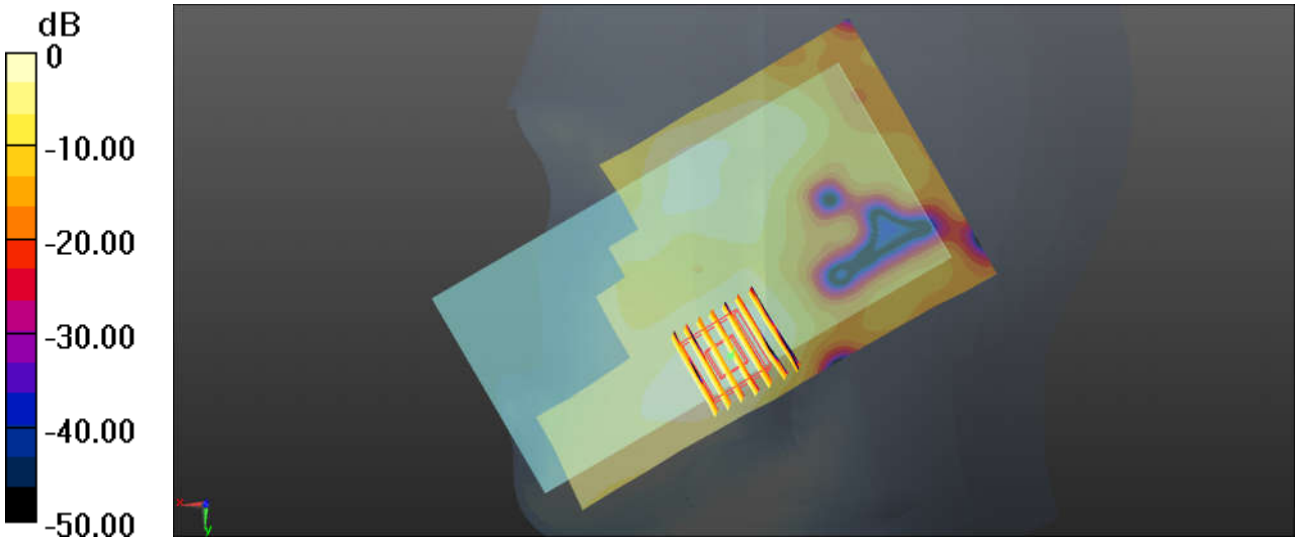
**12_LTE Band 41_20M_QPSK_1RB_0Offset_Right Cheek_0mm_Ch41140**

Communication System: UID 0, TDD_LTE (0); Frequency: 2645 MHz;Duty Cycle: 1:1.59
Medium: HSL_2600 Medium parameters used: f = 2645 MHz; $\sigma$ = 2.049 S/m; $\varepsilon_r$ = 37.576; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.34, 7.34, 7.34); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch41140/Area Scan (81x151x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0900 W/kg

**Ch41140/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.709 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.118 W/kg
**SAR(1 g) = 0.062 W/kg; SAR(10 g) = 0.031 W/kg**
Maximum value of SAR (measured) = 0.0892 W/kg




0 dB = 0.0892 W/kg = -10.50 dBW/kg

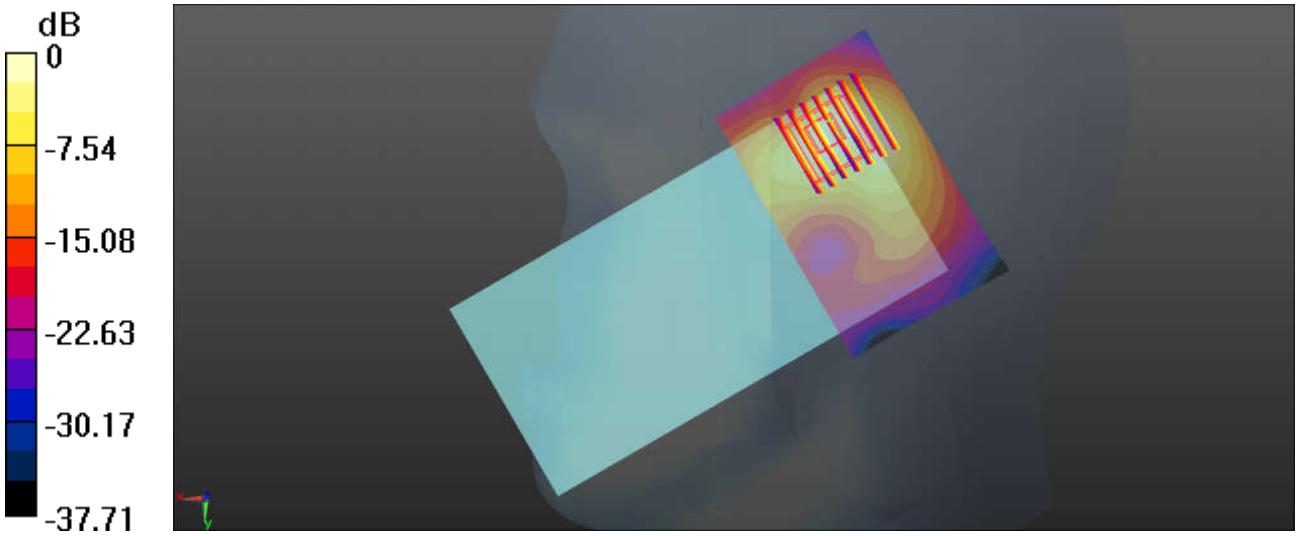
**13_WLAN2.4GHz_802.11b 1Mbps_Right Cheek_0mm_Ant 1_Ch11**

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz;Duty Cycle: 1:1.010
Medium: HSL_2450 Medium parameters used: f = 2462 MHz; $\sigma$ = 1.837 S/m; $\varepsilon_r$ = 38.289; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.2 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.65, 7.65, 7.65); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch11/Area Scan (81x51x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.62 W/kg

**Ch11/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.98 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 2.08 W/kg
**SAR(1 g) = 0.934 W/kg; SAR(10 g) = 0.348 W/kg**
Maximum value of SAR (measured) = 1.58 W/kg




0 dB = 1.58 W/kg = 1.99 dBW/kg

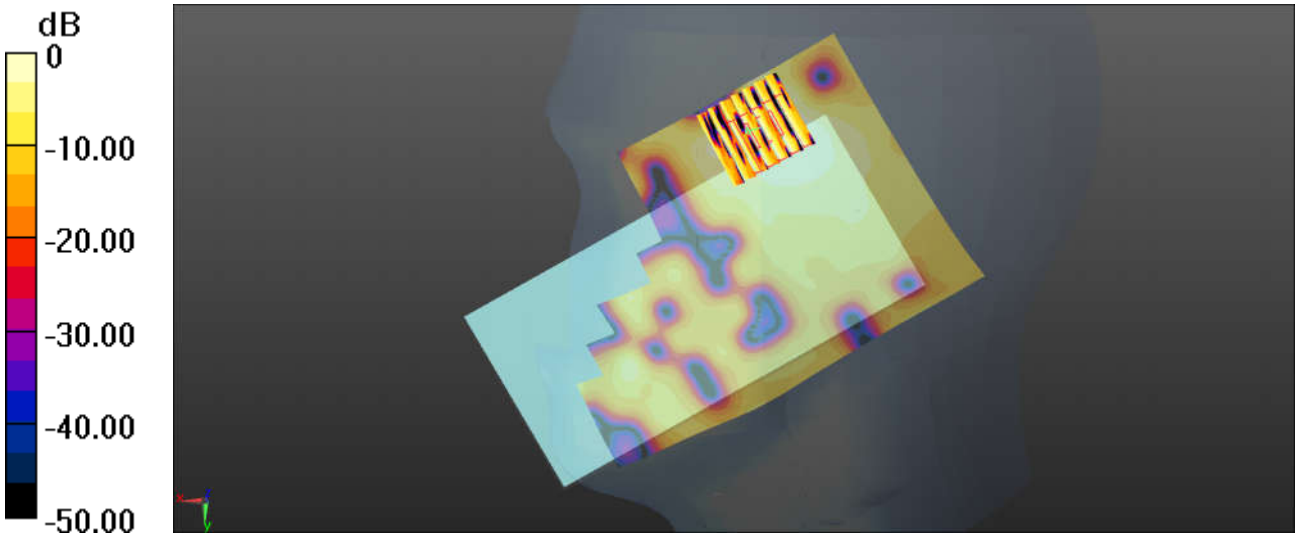
**14_WLAN2.4GHz_802.11b 1Mbps_Right Cheek_0mm_Ant 2_Ch1**

Communication System: UID 0, WIFI (0); Frequency: 2412 MHz;Duty Cycle: 1:1.010
Medium: HSL_2450 Medium parameters used: f = 2412 MHz; $\sigma$ = 1.778 S/m; $\varepsilon_r$ = 38.475; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.2 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.65, 7.65, 7.65); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch1/Area Scan (91x151x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0420 W/kg

**Ch1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.924 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.0450 W/kg
**SAR(1 g) = 0.021 W/kg; SAR(10 g) = 0.00911 W/kg**
Maximum value of SAR (measured) = 0.0310 W/kg




0 dB = 0.0310 W/kg = -15.09 dBW/kg

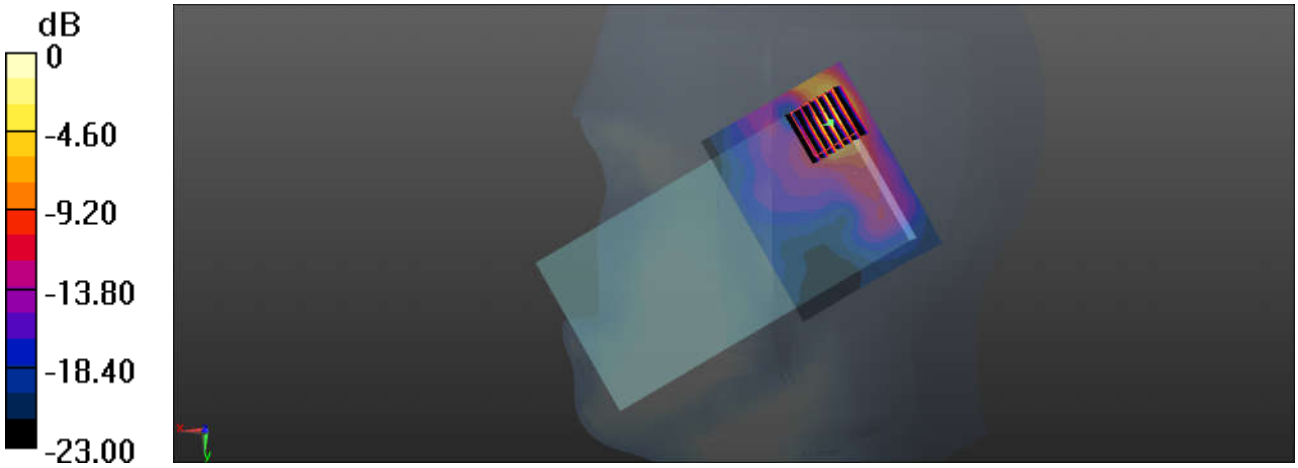
**15_WLAN5.3GHz_802.11a 6Mbps_Right Tilted_0mm_Ant 1_Ch64**

Communication System: UID 0, WIFI (0); Frequency: 5320 MHz;Duty Cycle: 1:1.024
Medium: HSL_5000 Medium parameters used: f = 5320 MHz; $\sigma$ = 4.644 S/m; $\varepsilon_r$ = 35.78; $\rho$ = 1000$_{kg/m^3}$
Ambient Temperature：23.2 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(5.15, 5.15, 5.15); Calibrated: 2017.12.18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch64/Area Scan (91x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.03 W/kg

**Ch64/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 4.773 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 3.83 W/kg
**SAR(1 g) = 0.793 W/kg; SAR(10 g) = 0.209 W/kg**
Maximum value of SAR (measured) = 2.15 W/kg




0 dB = 2.15 W/kg = 3.32 dBW/kg

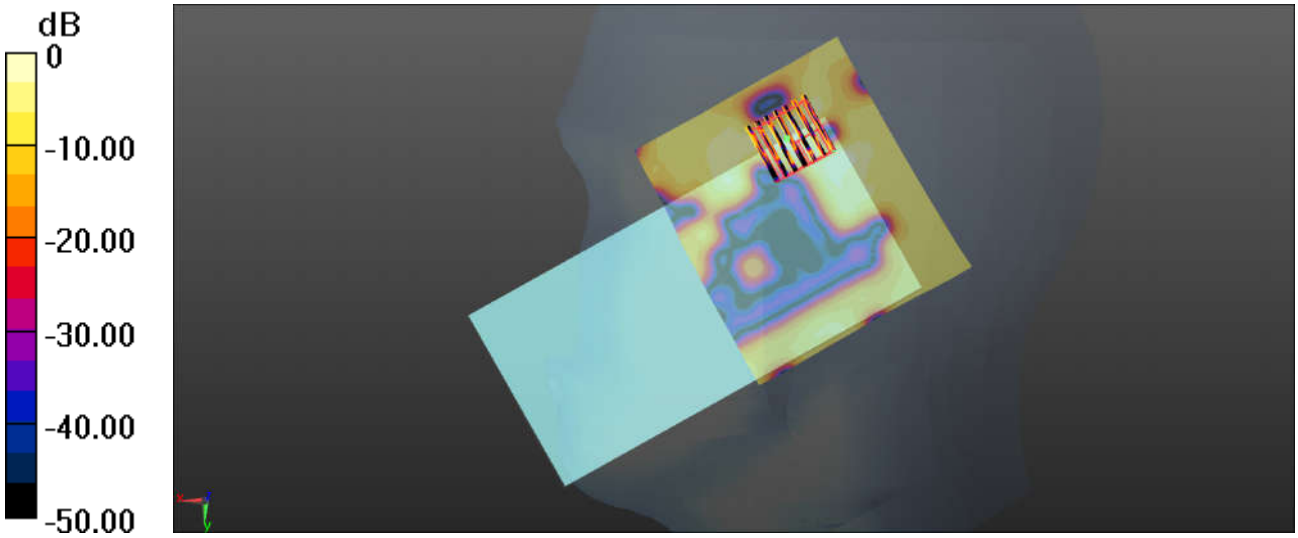
**16_WLAN5.3GHz_802.11a 6Mbps_Right Cheek_0mm_Ant 2_Ch52**

Communication System: UID 0, WIFI (0); Frequency: 5260 MHz;Duty Cycle: 1:1.024
Medium: HSL_5000 Medium parameters used: f = 5260 MHz; $\sigma$ = 4.576 S/m; $\varepsilon_r$ = 35.903; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.2 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(5.15, 5.15, 5.15); Calibrated: 2017.12.18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch52/Area Scan (101x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.104 W/kg

**Ch52/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.051 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.255 W/kg
**SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.00556 W/kg**
Maximum value of SAR (measured) = 0.0845 W/kg




0 dB = 0.0845 W/kg = -10.73 dBW/kg

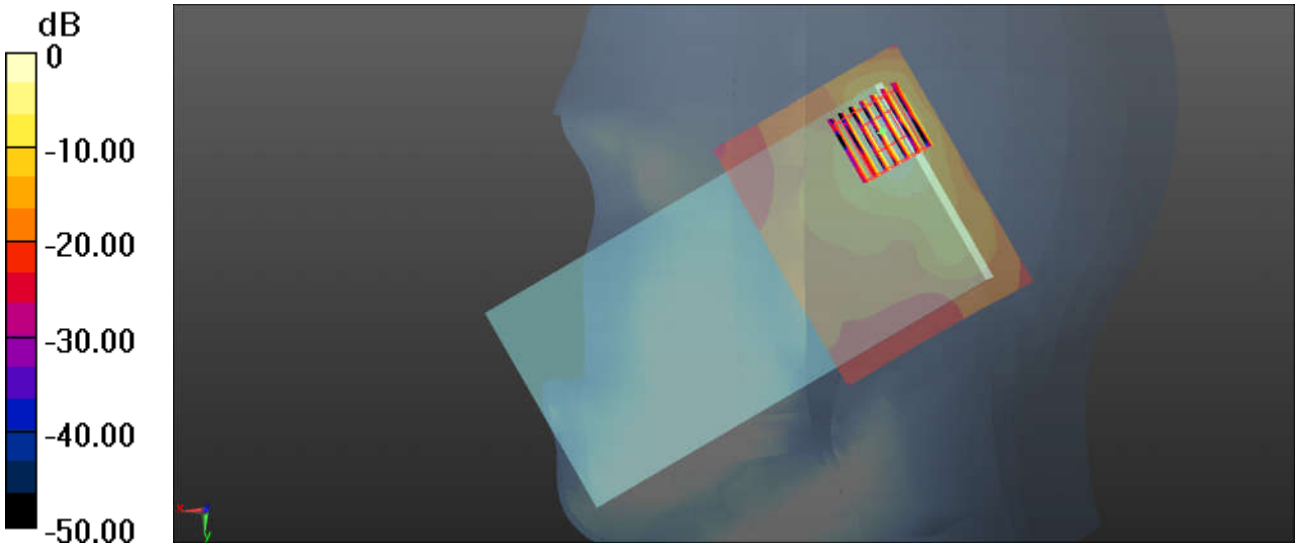
**17_WLAN5.5GHz_802.11a 6Mbps_Right Tilted_0mm_Ant 1_Ch100**

Communication System: UID 0, WIFI (0); Frequency: 5500 MHz;Duty Cycle: 1:1.024
Medium: HSL_5000 Medium parameters used: f = 5500 MHz; $\sigma$ = 4.849 S/m; $\varepsilon_r$ = 35.364; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.9 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.94, 4.94, 4.94); Calibrated: 2017.12.18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch100/Area Scan (91x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.67 W/kg

**Ch100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 5.044 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 3.06 W/kg
**SAR(1 g) = 0.616 W/kg; SAR(10 g) = 0.158 W/kg**
Maximum value of SAR (measured) = 1.68 W/kg




0 dB = 1.68 W/kg = 2.25 dBW/kg

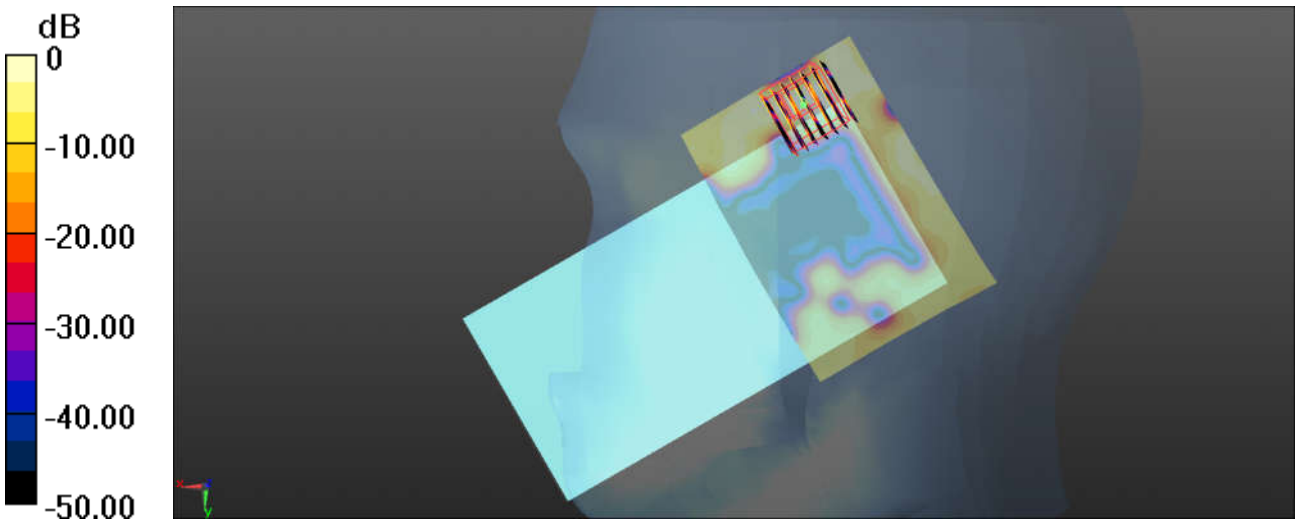
**18_WLAN5.5GHz_802.11a 6Mbps_Right Cheek_0mm_Ant 2_Ch100**

Communication System: UID 0, WIFI (0); Frequency: 5500 MHz;Duty Cycle: 1:1.024
Medium: HSL_5000 Medium parameters used: f = 5500 MHz; $\sigma$ = 4.849 S/m; $\varepsilon_r$ = 35.364; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.9 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.94, 4.94, 4.94); Calibrated: 2017.12.18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch100/Area Scan (101x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0941 W/kg

**Ch100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0.4170 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.287 W/kg
**SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.00526 W/kg**
Maximum value of SAR (measured) = 0.0814 W/kg




0 dB = 0.0814 W/kg = -10.89 dBW/kg

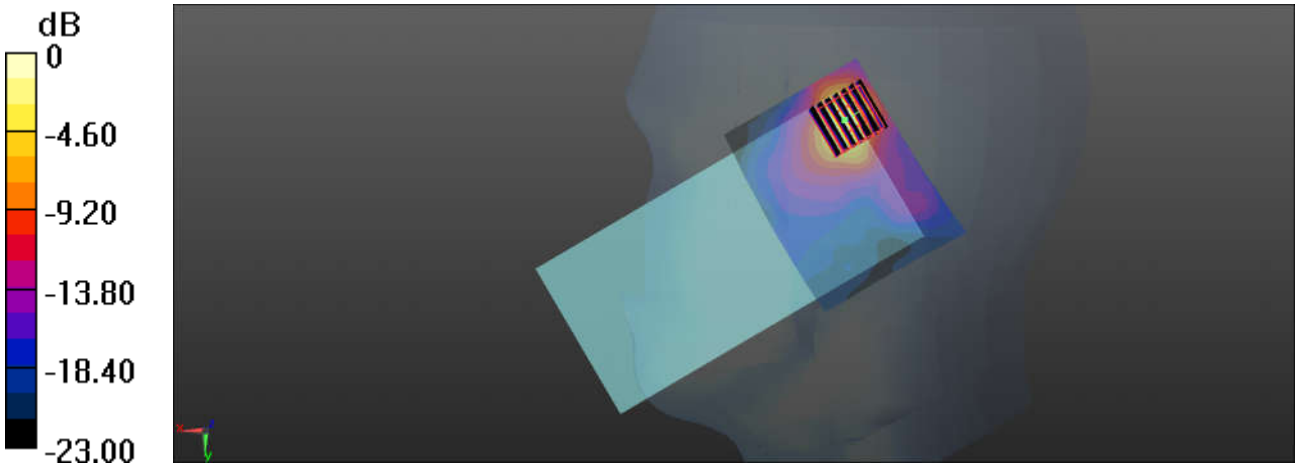
**19_WLAN5.8GHz_ 802.11a MCS0_Right Tilted_0mm_Ant 1_Ch149**

Communication System: UID 0, WIFI (0); Frequency: 5745 MHz;Duty Cycle: 1:1.024
Medium: HSL_5000 Medium parameters used: f = 5745 MHz; $\sigma$ = 5.138 S/m; $\varepsilon_r$ = 34.857; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.8, 4.8, 4.8); Calibrated: 2017.12.18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch149/Area Scan (91x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.44 W/kg

**Ch149/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 3.184 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 3.35 W/kg
**SAR(1 g) = 0.618 W/kg; SAR(10 g) = 0.163 W/kg**
Maximum value of SAR (measured) = 1.68 W/kg




0 dB = 1.68 W/kg = 2.25 dBW/kg

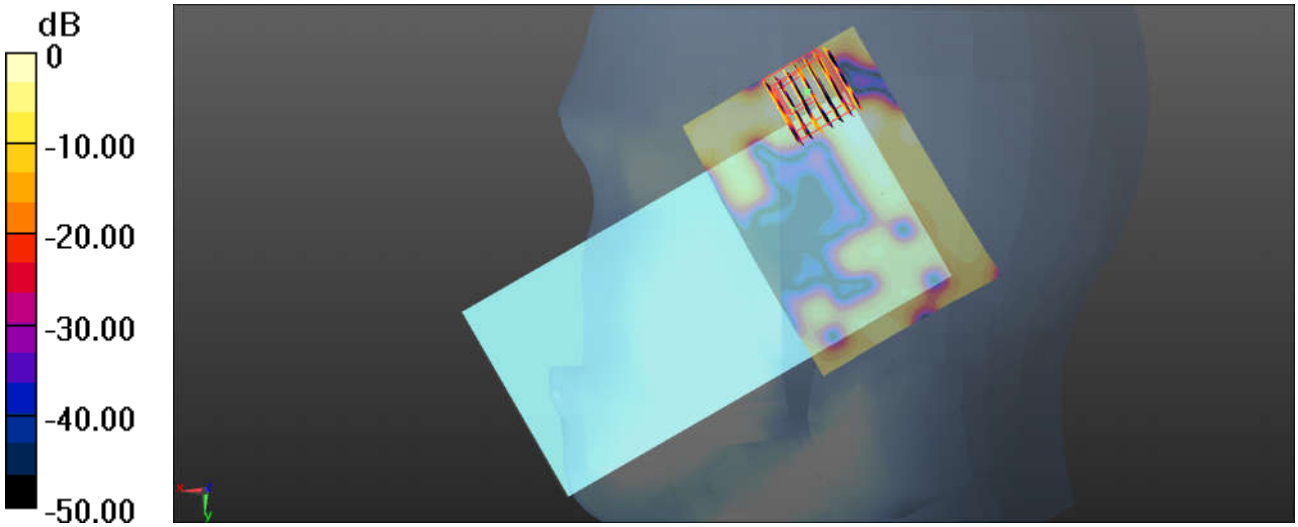
**20_WLAN5.8GHz_802.11a 6Mbps_Right Cheek_0mm_Ant 2_Ch149**

Communication System: UID 0, WIFI (0); Frequency: 5745 MHz;Duty Cycle: 1:1.024
Medium: HSL_5000 Medium parameters used: f = 5745 MHz; $\sigma$ = 5.138 S/m; $\varepsilon_r$ = 34.857; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.8, 4.8, 4.8); Calibrated: 2017.12.18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch149/Area Scan (101x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.164 W/kg

**Ch149/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.241 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.330 W/kg
**SAR(1 g) = 0.040 W/kg; SAR(10 g) = 0.011 W/kg**
Maximum value of SAR (measured) = 0.119 W/kg




0 dB = 0.119 W/kg = -9.24 dBW/kg

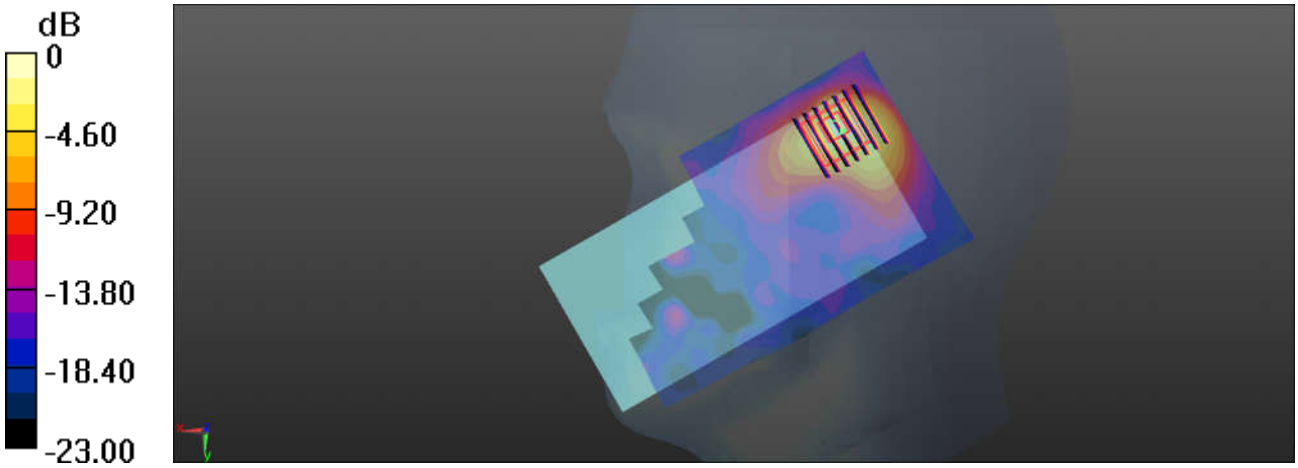
**21_Bluetooth_1Mbps_Right Cheek_0mm_Ant 1_Ch78**

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz;Duty Cycle: 1:1.297
Medium: HSL_2450 Medium parameters used: f = 2480 MHz; $\sigma$ = 1.859 S/m; $\varepsilon_r$ = 38.215; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.2 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.65, 7.65, 7.65); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch78/Area Scan (81x151x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.231 W/kg

**Ch78/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.372 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.405 W/kg
**SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.059 W/kg**
Maximum value of SAR (measured) = 0.274 W/kg




0 dB = 0.274 W/kg = -5.62 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.26

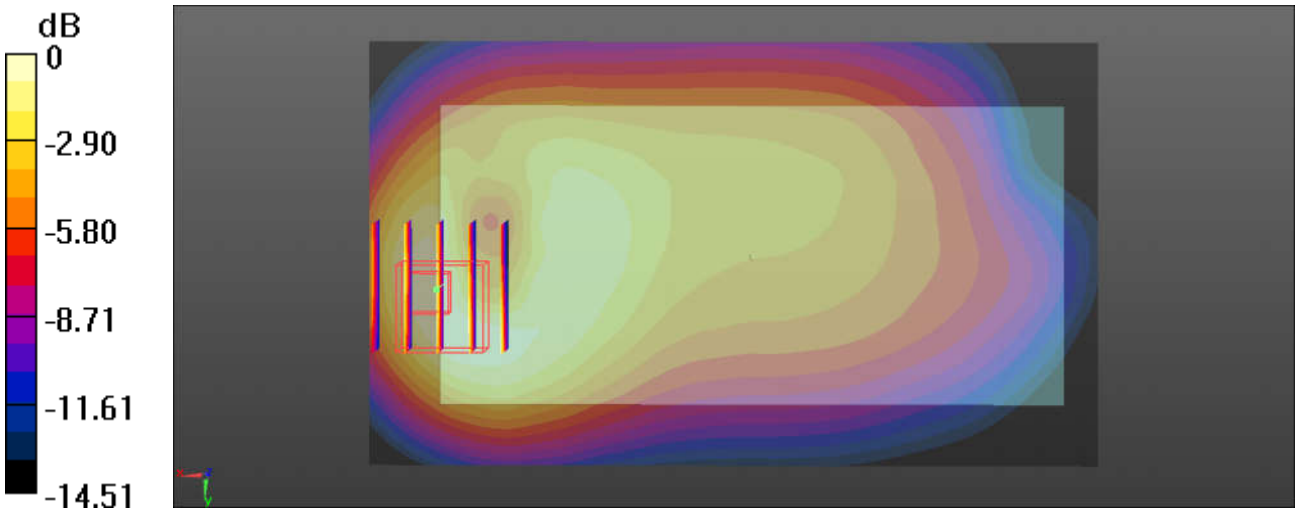
**22_GSM850_GPRS 4 Tx slot_Back_10mm_Ch251**

Communication System: UID 0, GPRS/EDGE (4 Tx slots) (0); Frequency: 848.8 MHz;Duty Cycle:1:2.08
Medium: MSL_835 Medium parameters used: f = 848.8 MHz; $\sigma$ = 0.986 S/m; $\varepsilon_r$ = 55.014; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(10.14, 10.14, 10.14); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch251/Area Scan (121x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.943 W/kg

**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.73 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.11 W/kg
**SAR(1 g) = 0.697 W/kg; SAR(10 g) = 0.412 W/kg**
Maximum value of SAR (measured) = 0.929 W/kg




0 dB = 0.929 W/kg = -0.32 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.24

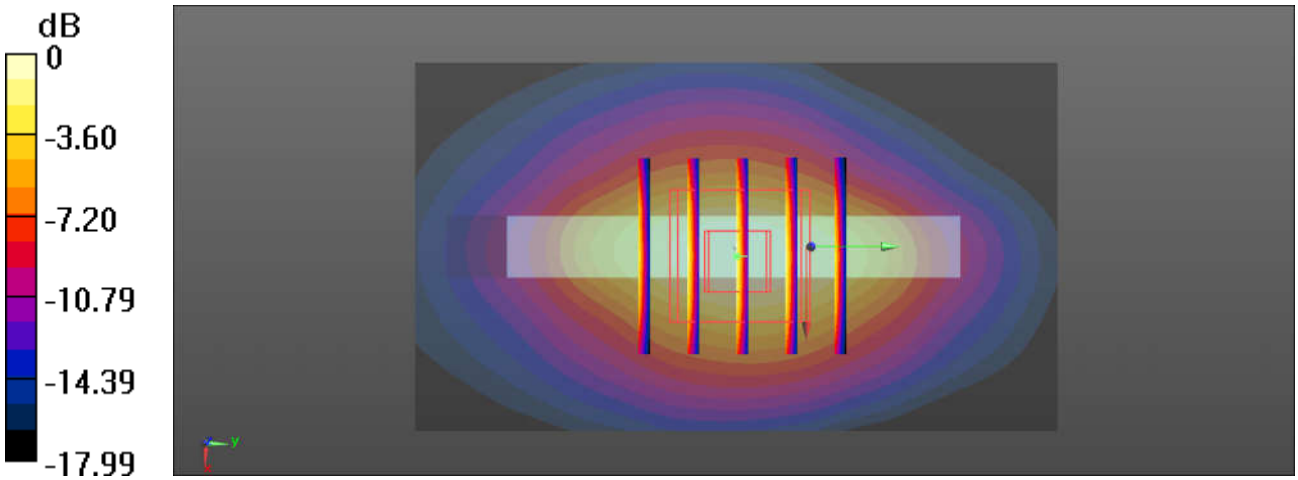
**23_GSM1900_GPRS 4 Tx slot_Bottom Side_10mm_Ch810**

Communication System: UID 0, GPRS/EDGE (4 Tx slots) (0); Frequency: 1909.8 MHz;Duty Cycle:1:2.08
Medium: MSL_1900 Medium parameters used: f = 1909.8 MHz; $\sigma$ = 1.526 S/m; $\varepsilon_r$ = 52.799;
$\rho$ = 1000$_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(8.44, 8.44, 8.44); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch810/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.77 W/kg

**Ch810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 33.15 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 2.06 W/kg
**SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.644 W/kg**
Maximum value of SAR (measured) = 1.68 W/kg




0 dB = 1.68 W/kg = 2.25 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.26

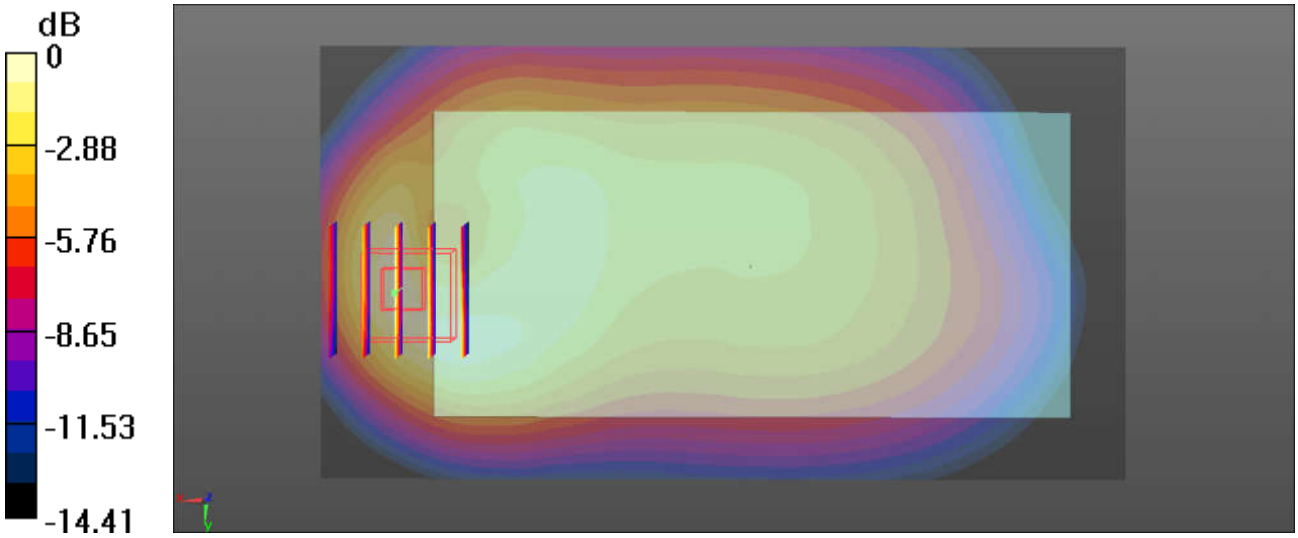
**24_WCDMA Band V_RMC 12.2Kbps_Back_10mm_Ch4132**

Communication System: UID 0, UMTS (0); Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: MSL_835 Medium parameters used: f = 826.4 MHz; $\sigma$ = 0.964 S/m; $\varepsilon_r$ = 55.221; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(10.14, 10.14, 10.14); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch4132/Area Scan (131x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.555 W/kg

**Ch4132/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.08 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.740 W/kg
**SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.256 W/kg**
Maximum value of SAR (measured) = 0.574 W/kg




0 dB = 0.574 W/kg = -2.41 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.24

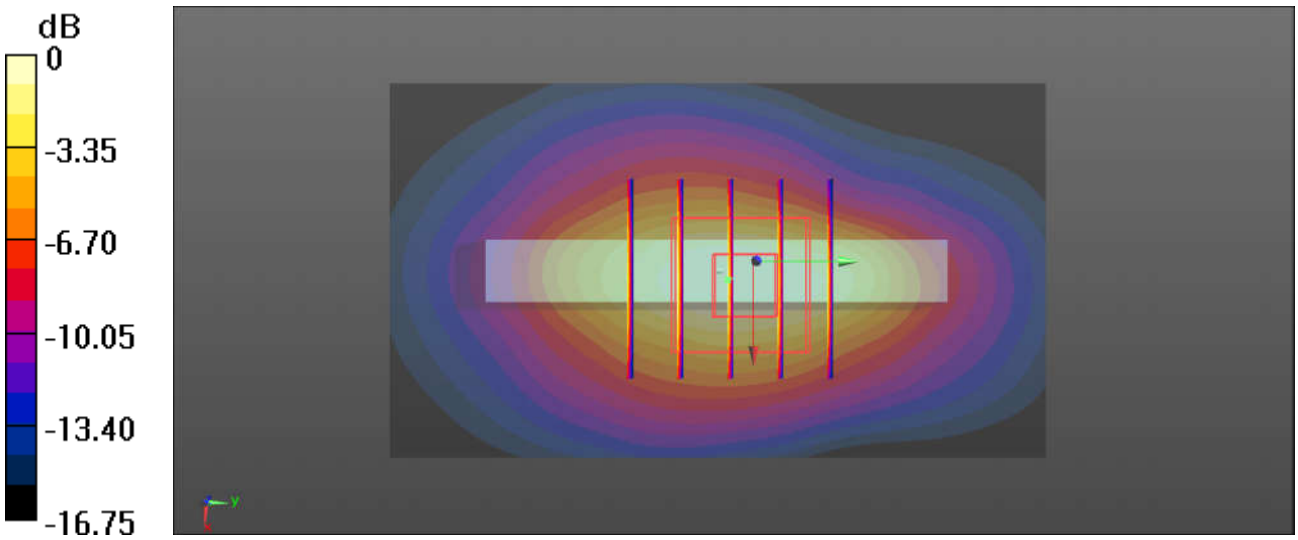
**25_WCDMA Band IV_RMC 12.2Kbps_Bottom Side_10mm_Ch1513**

Communication System: UID 0, UMTS (0); Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: MSL_1750 Medium parameters used: f = 1752.6 MHz; $\sigma$ = 1.446 S/m; $\varepsilon_r$ = 54.681; $\rho$ = $1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(8.99, 8.99, 8.99); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch1513/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.37 W/kg

**Ch1513/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.52 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.57 W/kg
**SAR(1 g) = 0.959 W/kg; SAR(10 g) = 0.526 W/kg**
Maximum value of SAR (measured) = 1.27 W/kg




0 dB = 1.27 W/kg = 1.04 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.24

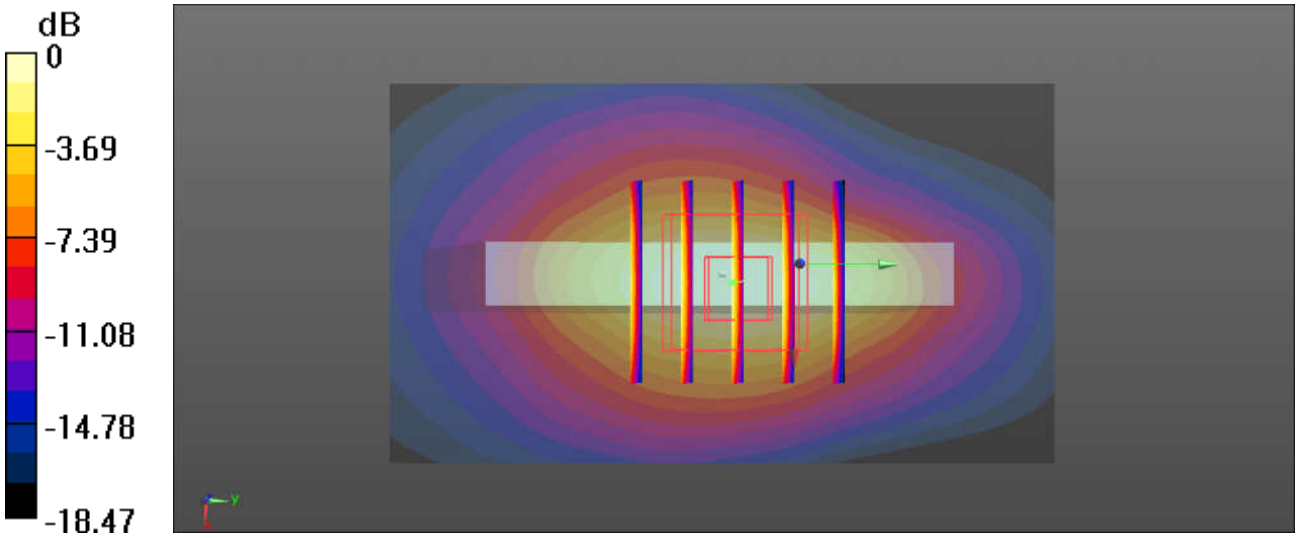
**26_WCDMA Band II_RMC 12.2Kbps_Bottom Side_10mm_Ch9400**

Communication System: UID 0, UMTS (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1880 MHz; $\sigma$ = 1.486 S/m; $\varepsilon_r$ = 52.847; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(8.44, 8.44, 8.44); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch9400/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.49 W/kg

**Ch9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.41 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.65 W/kg
**SAR(1 g) = 0.999 W/kg; SAR(10 g) = 0.537 W/kg**
Maximum value of SAR (measured) = 1.36 W/kg




0 dB = 1.36 W/kg = 1.34 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.26

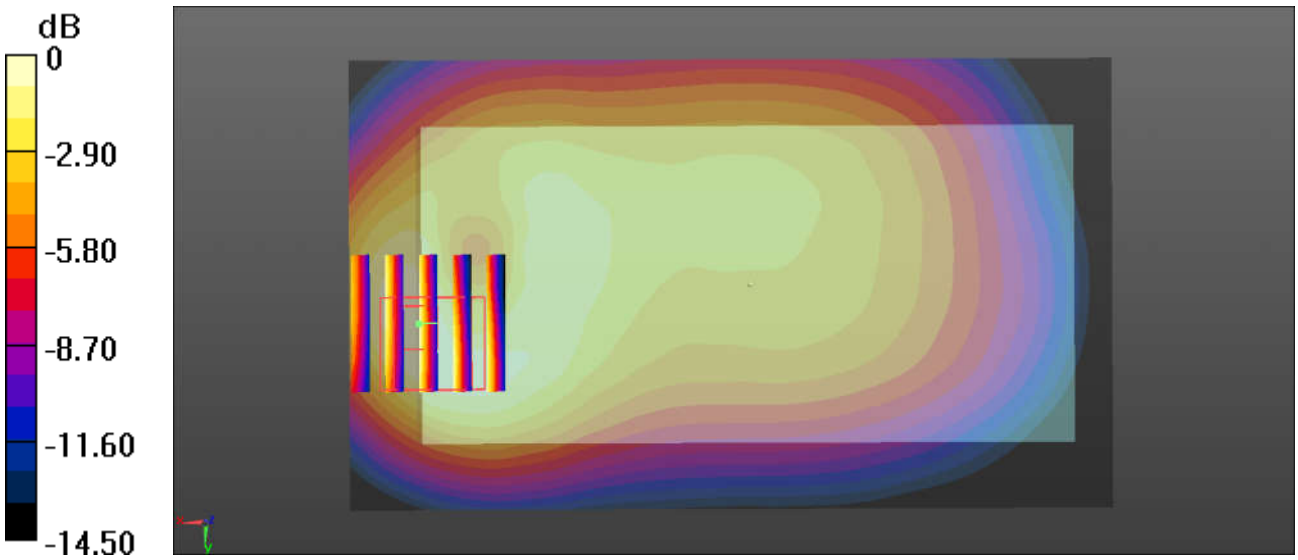
**27_CDMA2000 BC0_RTAP 153.6Kbps_Back_10mm_Ch777**

Communication System: UID 0, CDMA2000 (0); Frequency: 848.31 MHz;Duty Cycle: 1:1
Medium: MSL_835 Medium parameters used: f = 848.31 MHz; $\sigma$ = 0.986 S/m; $\varepsilon_r$ = 55.019; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(10.14, 10.14, 10.14); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch777/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.652 W/kg

**Ch777/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.32 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.772 W/kg
**SAR(1 g) = 0.466 W/kg; SAR(10 g) = 0.276 W/kg**
Maximum value of SAR (measured) = 0.621 W/kg




0 dB = 0.621 W/kg = -2.07 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.27

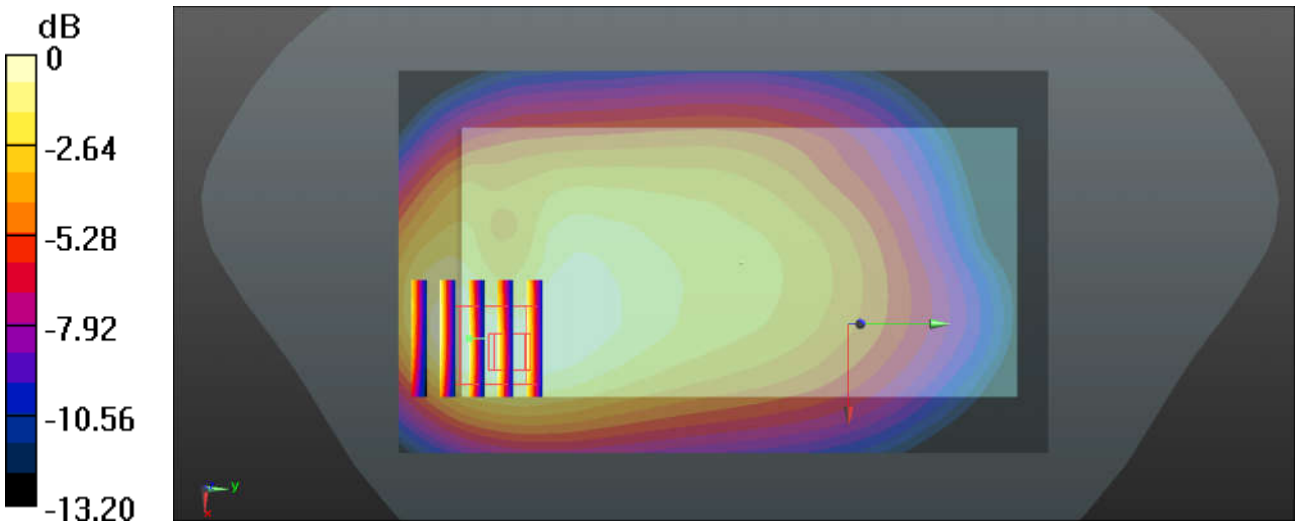
**28_LTE Band 12_10M_QPSK_1RB_0Offset_Back_10mm_Ch23095**

Communication System: UID 0, FDD_LTE (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium: MSL_750 Medium parameters used: f = 707.5 MHz; $\sigma$ = 0.928 S/m; $\varepsilon_r$ = 57.031; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(10.49, 10.49, 10.49); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch23095/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.344 W/kg

**Ch23095/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.67 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.390 W/kg
**SAR(1 g) = 0.239 W/kg; SAR(10 g) = 0.149 W/kg**
Maximum value of SAR (measured) = 0.312 W/kg




0 dB = 0.312 W/kg = -5.06 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.26

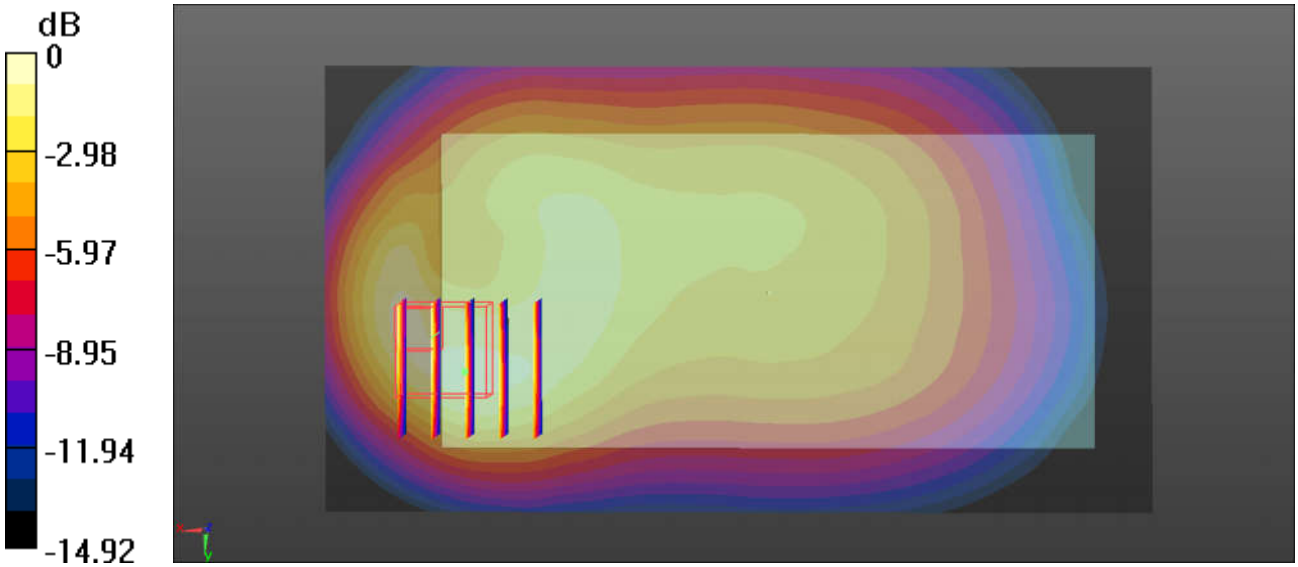
**29_LTE Band 5_10M_QPSK_25RB_0Offset_Back_10mm_Ch20525**

Communication System: UID 0, FDD_LTE (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: MSL_835 Medium parameters used: f = 836.5 MHz; $\sigma$ = 0.974 S/m; $\varepsilon_r$ = 55.131; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(10.14, 10.14, 10.14); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**20525/Area Scan (131x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.445 W/kg

**20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.67 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.600 W/kg
**SAR(1 g) = 0.352 W/kg; SAR(10 g) = 0.199 W/kg**
Maximum value of SAR (measured) = 0.474 W/kg




0 dB = 0.474 W/kg = -3.24 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.24

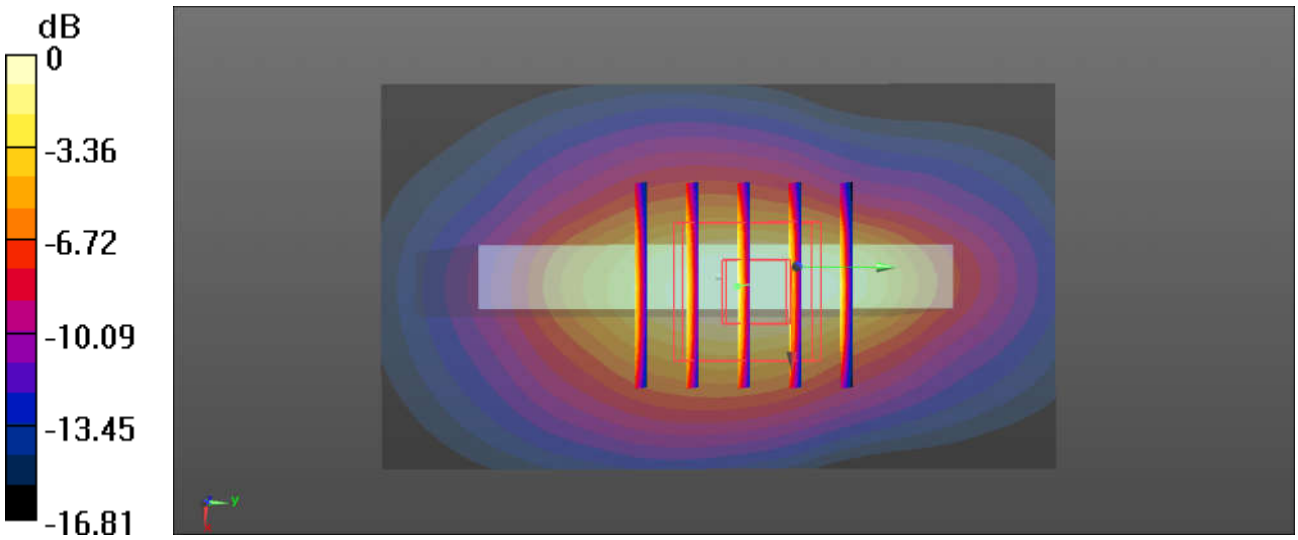
**30_LTE Band 4_20M_QPSK_1RB_0Offset_Bottom Side_10mm_Ch20175**

Communication System: UID 0, FDD_LTE (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium: MSL_1750 Medium parameters used: f = 1732.5 MHz; $\sigma$ = 1.426 S/m; $\varepsilon_r$ = 54.754; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(8.99, 8.99, 8.99); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch20175/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.04 W/kg

**Ch20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.83 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.20 W/kg
**SAR(1 g) = 0.742 W/kg; SAR(10 g) = 0.410 W/kg**
Maximum value of SAR (measured) = 0.986 W/kg




0 dB = 0.986 W/kg = -0.06 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.24

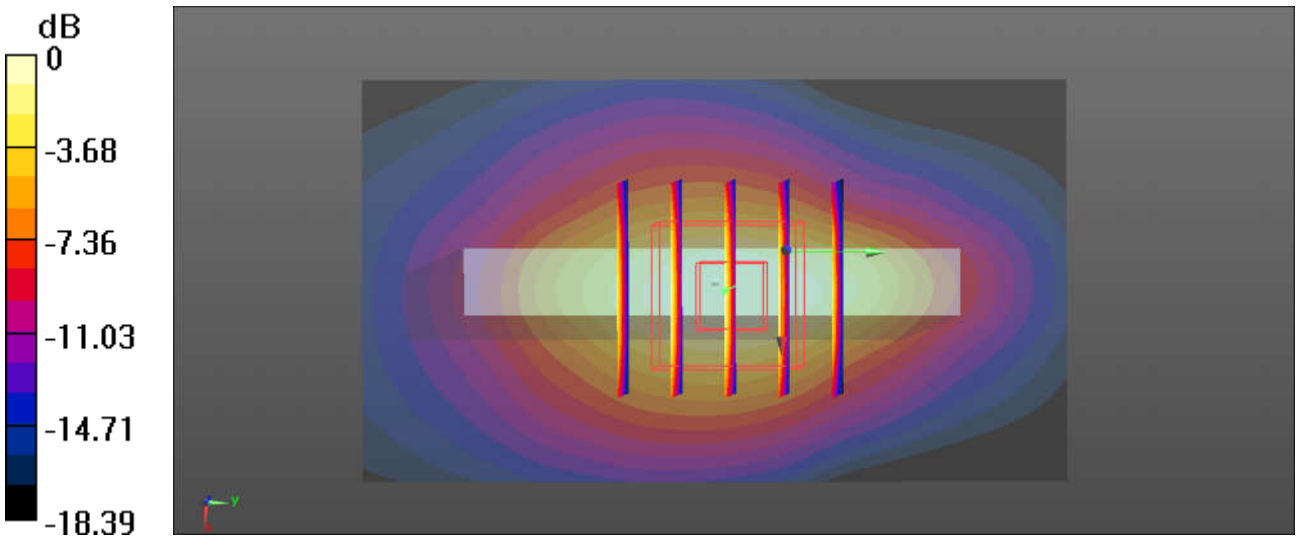
**31_LTE Band 2_20M_QPSK_1RB_0Offset_Bottom Side_10mm_Ch19100**

Communication System: UID 0, FDD_LTE (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1900 MHz; $\sigma$ = 1.515 S/m; $\varepsilon_r$ = 52.81; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(8.44, 8.44, 8.44); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch19100/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.37 W/kg

**Ch19100/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.88 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 1.54 W/kg
**SAR(1 g) = 0.925 W/kg; SAR(10 g) = 0.499 W/kg**
Maximum value of SAR (measured) = 1.26 W/kg




0 dB = 1.26 W/kg = 1.00 dBW/kg

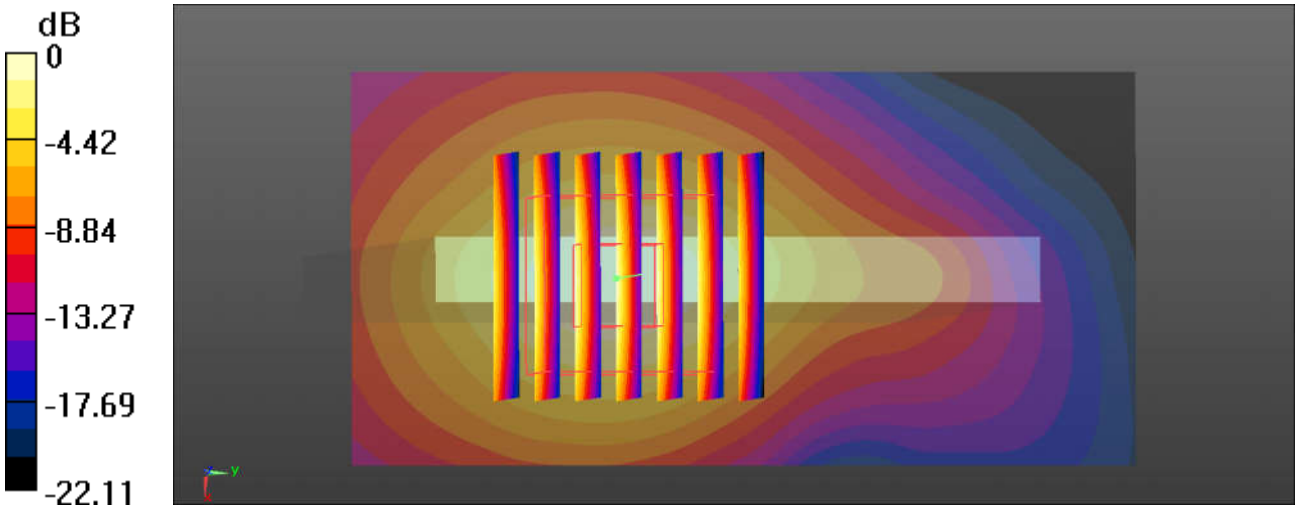
**32_LTE Band 7_20M_QPSK_1RB_0Offset_Bottom Side_10mm_Ch20850**

Communication System: UID 0, FDD_LTE (0); Frequency: 2510 MHz;Duty Cycle: 1:1
Medium: MSL_2600 Medium parameters used: f = 2510 MHz; $\sigma$ = 2.064 S/m; $\varepsilon_r$ = 53.408; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.43, 7.43, 7.43); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch20850/Area Scan (41x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.56 W/kg

**Ch20850/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.70 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 2.00 W/kg
**SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.523 W/kg**
Maximum value of SAR (measured) = 1.53 W/kg




0 dB = 1.53 W/kg = 1.85 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.24

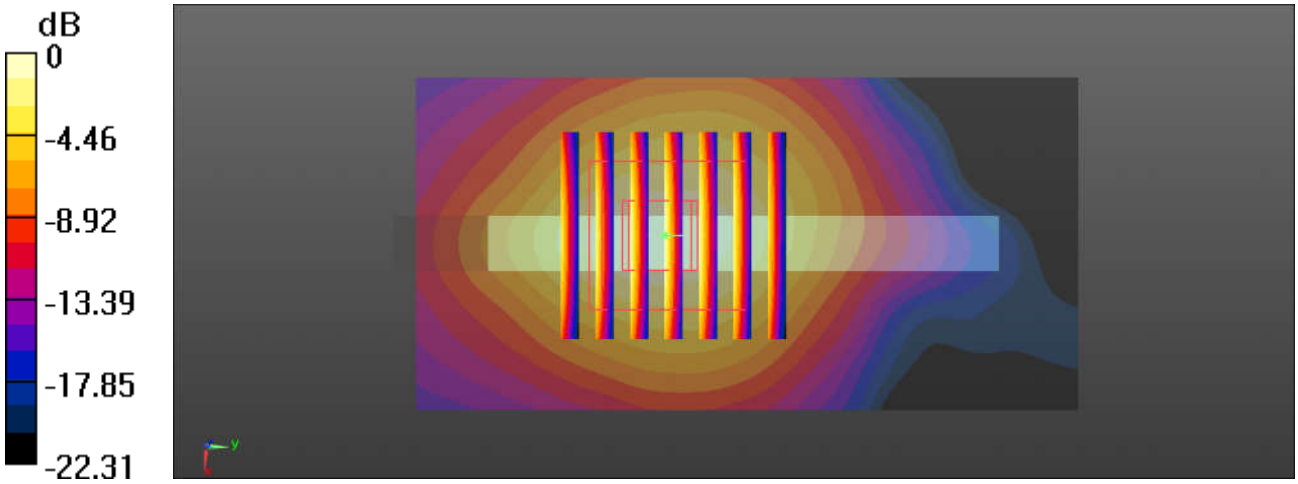
**33_LTE Band 41_20M_QPSK_1RB_0Offset_Bottom Side_10mm_Ch40400**

Communication System: UID 0, TDD_LTE (0); Frequency: 2571 MHz;Duty Cycle: 1:1.59
Medium: MSL_2600 Medium parameters used: f = 2571 MHz; $\sigma$ = 2.119 S/m; $\varepsilon_r$ = 53.261; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.43, 7.43, 7.43); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch40400/Area Scan (41x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.23 W/kg

**Ch40400/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.21 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.62 W/kg
**SAR(1 g) = 0.882 W/kg; SAR(10 g) = 0.421 W/kg**
Maximum value of SAR (measured) = 1.24 W/kg




0 dB = 1.24 W/kg = 0.93 dBW/kg

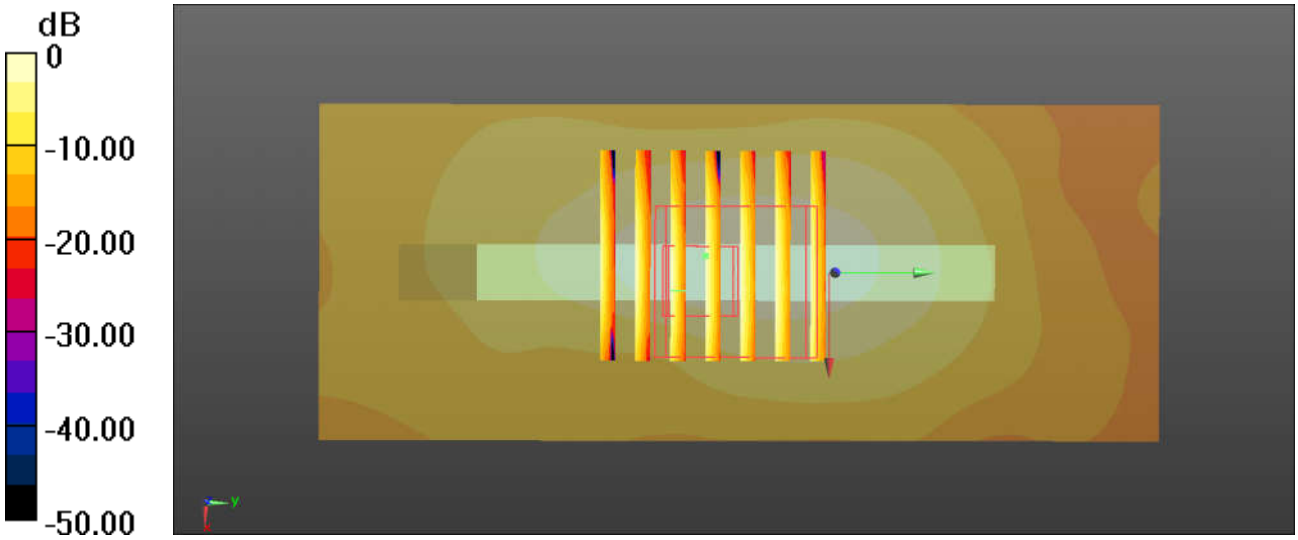
**34_WLAN2.4GHz_802.11b 1Mbps_Top Side_10mm_Ant 1_Ch11**

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz;Duty Cycle: 1:1.010
Medium: MSL_2450 Medium parameters used: f = 2462 MHz; $\sigma$ = 1.996 S/m; $\varepsilon_r$ = 53.579; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.83, 7.83, 7.83); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM1; Type: SAM; Serial: TP-1164
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch11/Area Scan (41x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.287 W/kg

**Ch11/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.06 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.414 W/kg
**SAR(1 g) = 0.201 W/kg; SAR(10 g) = 0.094 W/kg**
Maximum value of SAR (measured) = 0.303 W/kg




0 dB = 0.303 W/kg = -5.19 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.22

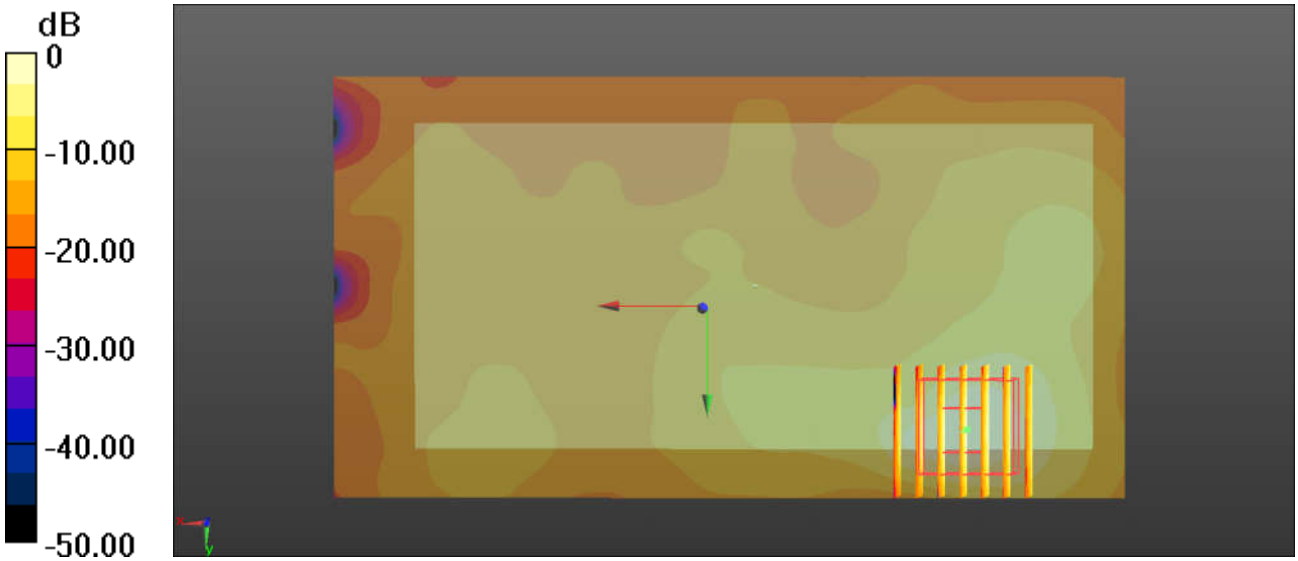
**35_WLAN2.4GHz_802.11b 1Mbps_Back_10mm_Ant 2_Ch1**

Communication System: UID 0, WIFI (0); Frequency: 2412 MHz;Duty Cycle: 1:1.010
Medium: MSL_2450 Medium parameters used: f = 2412 MHz; $\sigma$ = 1.928 S/m; $\varepsilon_r$ = 53.749; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.83, 7.83, 7.83); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM1; Type: SAM; Serial: TP-1164
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch1/Area Scan (151x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.188 W/kg

**Ch1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.078 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.281 W/kg
**SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.054 W/kg**
Maximum value of SAR (measured) = 0.201 W/kg




0 dB = 0.201 W/kg = -6.97 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.29

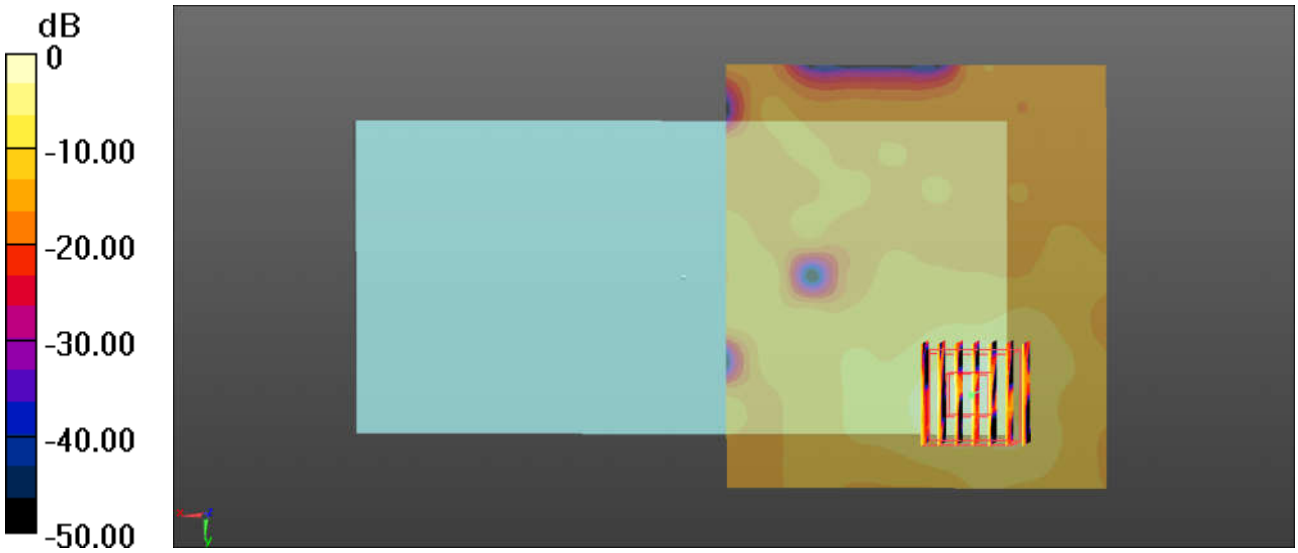
**36_WLAN5.2GHz_802.11a 6Mbp_Back_10mm_Ant 1_Ch44**

Communication System: UID 0, WIFI (0); Frequency: 5220 MHz;Duty Cycle: 1:1.024
Medium: MSL_5000 Medium parameters used: f = 5220 MHz; $\sigma$ = 5.511 S/m; $\varepsilon_r$ = 47.076; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.2 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.84, 4.84, 4.84); Calibrated: 2017.12.18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch44/Area Scan (101x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.230 W/kg

**Ch44/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.365 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.458 W/kg
**SAR(1 g) = 0.118 W/kg; SAR(10 g) = 0.032 W/kg**
Maximum value of SAR (measured) = 0.313 W/kg




0 dB = 0.313 W/kg = -5.04 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.29

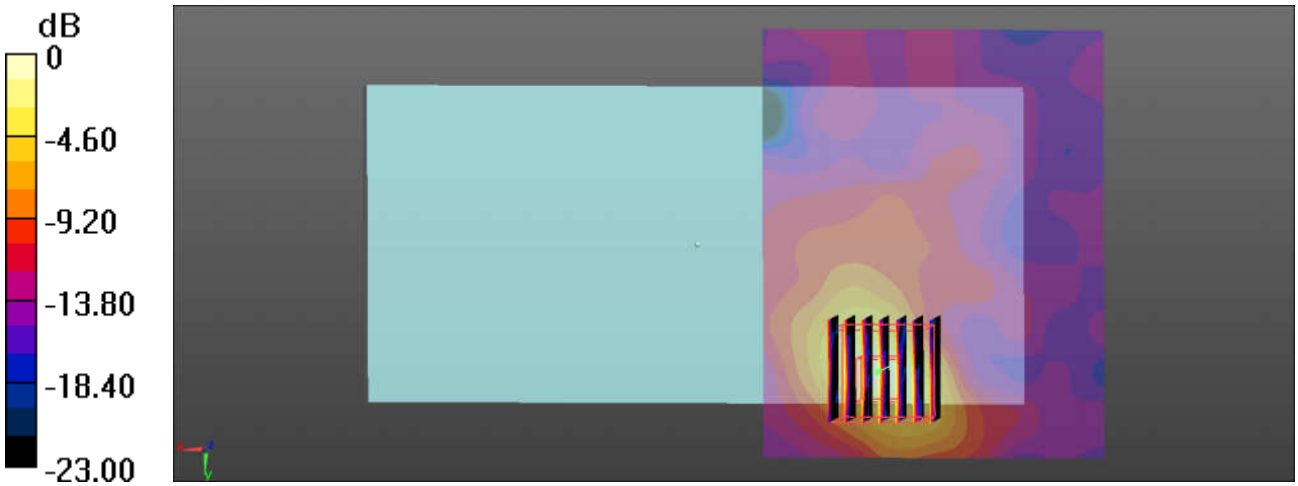
**37_WLAN5.2GHz_802.11a 6Mbp_Back_10mm_Ant 2_Ch48**

Communication System: UID 0, WIFI (0); Frequency: 5240 MHz;Duty Cycle: 1:1.024
Medium: MSL_5000 Medium parameters used: f = 5240 MHz; $\sigma$ = 5.537 S/m; $\varepsilon_r$ = 47.029; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.2 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.84, 4.84, 4.84); Calibrated: 2017.12.18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch48/Area Scan (101x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.388 W/kg

**Ch48/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.456 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.68 W/kg
**SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.057 W/kg**
Maximum value of SAR (measured) = 0.458 W/kg




0 dB = 0.458 W/kg = -3.39 dBW/kg

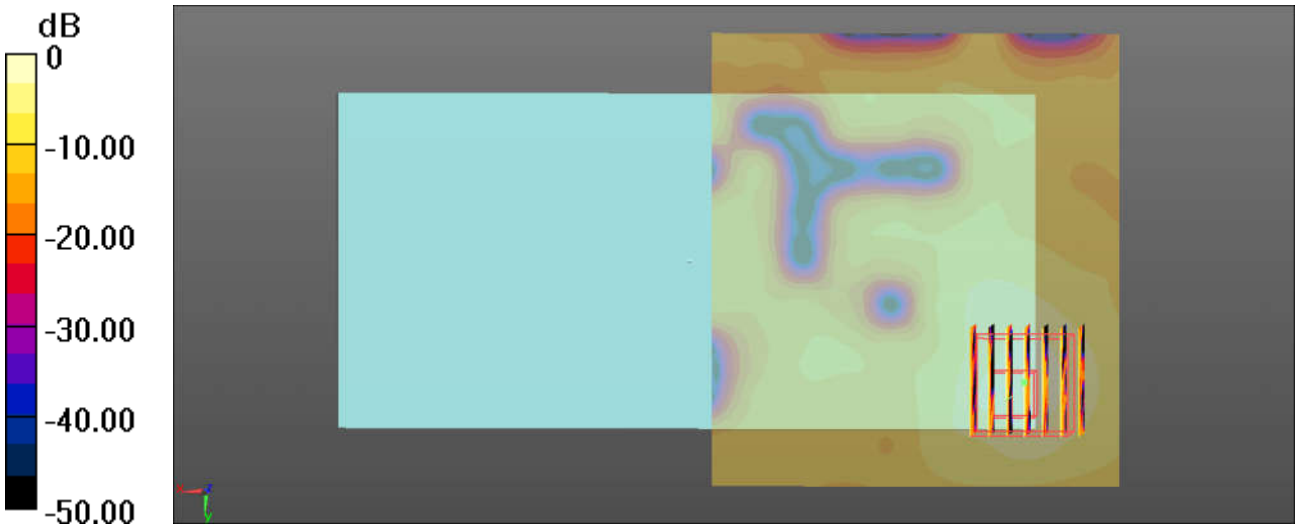
**38_WLAN5.8GHz_802.11a 6Mbp_Back_10mm_Ant 1_Ch149**

Communication System: UID 0, WIFI (0); Frequency: 5745 MHz;Duty Cycle: 1:1.024
Medium: MSL_5000 Medium parameters used: f = 5745 MHz; $\sigma$ = 6.221 S/m; $\varepsilon_r$ = 46.161; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.2 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.41, 4.41, 4.41); Calibrated: 2017.12.18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch149/Area Scan (101x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.218 W/kg

**Ch149/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0.9930 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.491 W/kg
**SAR(1 g) = 0.099 W/kg; SAR(10 g) = 0.033 W/kg**
Maximum value of SAR (measured) = 0.259 W/kg




0 dB = 0.259 W/kg = -5.87 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.30

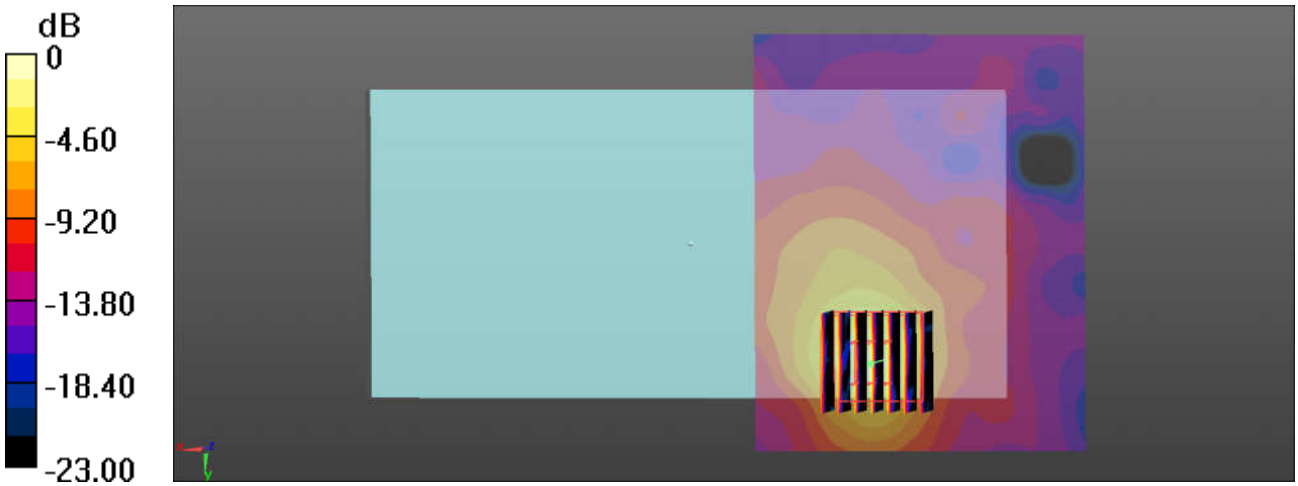
**39_WLAN5.8GHz_802.11a 6Mbp_Back_10mm_Ant 2_Ch149**

Communication System: UID 0, WIFI (0); Frequency: 5745 MHz;Duty Cycle: 1:1.024
Medium: MSL_5000 Medium parameters used: f = 5745 MHz; $\sigma$ = 6.221 S/m; $\varepsilon_r$ = 46.161; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.2 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.41, 4.41, 4.41); Calibrated: 2017.12.18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch149/Area Scan (101x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.507 W/kg

**Ch149/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.871 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.13 W/kg
**SAR(1 g) = 0.244 W/kg; SAR(10 g) = 0.077 W/kg**
Maximum value of SAR (measured) = 0.626 W/kg




0 dB = 0.626 W/kg = -2.03 dBW/kg

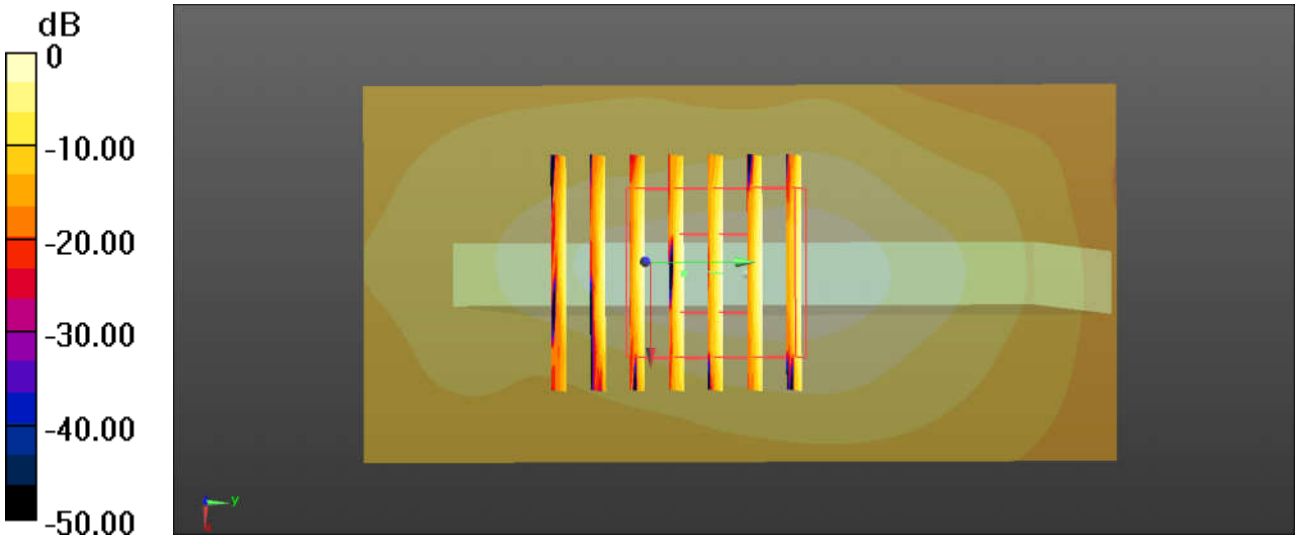
**40_ Bluetooth_ 1Mbps_Top Side_10mm_Ant 1_Ch78**

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz;Duty Cycle: 1:1.297
Medium: MSL_2450 Medium parameters used: f = 2480 MHz; $\sigma$ = 2.023 S/m; $\varepsilon_r$ = 53.514; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.83, 7.83, 7.83); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM1; Type: SAM; Serial: TP-1164
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch78/Area Scan (41x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.120 W/kg

**Ch78/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.644 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.155 W/kg
**SAR(1 g) = 0.079 W/kg; SAR(10 g) = 0.037 W/kg**
Maximum value of SAR (measured) = 0.117 W/kg




0 dB = 0.117 W/kg = -9.32 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.26

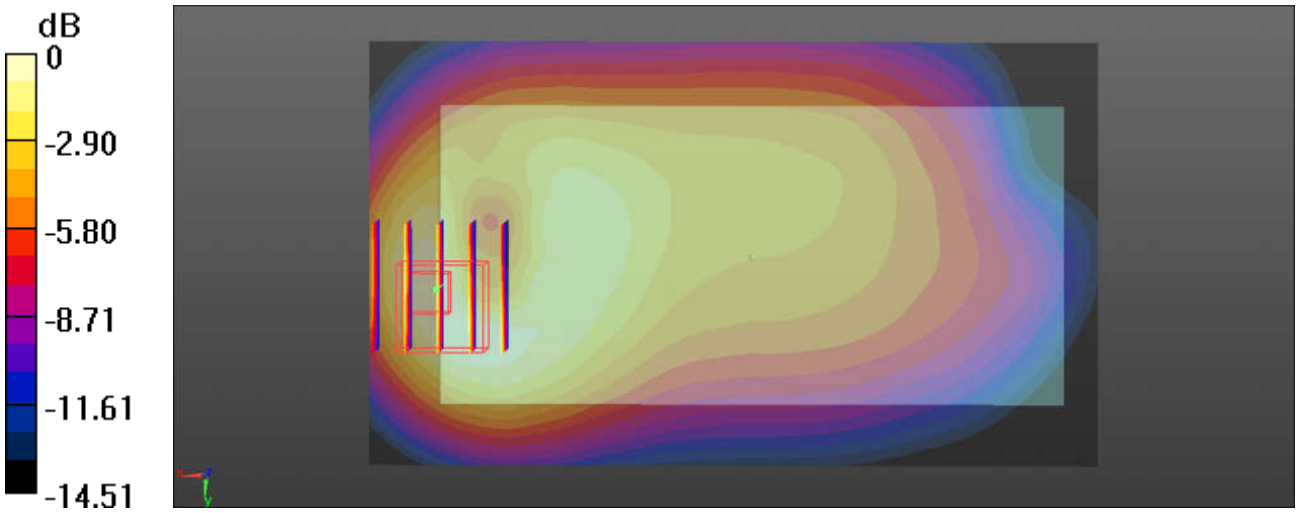
**41_GSM850_GPRS 4 Tx slot_Back_10mm_Ch251**

Communication System: UID 0, GPRS/EDGE (4 Tx slots) (0); Frequency: 848.8 MHz;Duty Cycle:1:2.08
Medium: MSL_835 Medium parameters used: f = 848.8 MHz; $\sigma$ = 0.986 S/m; $\varepsilon_r$ = 55.014;
$\rho$ = $1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(10.14, 10.14, 10.14); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch251/Area Scan (121x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.943 W/kg

**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.73 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.11 W/kg
**SAR(1 g) = 0.697 W/kg; SAR(10 g) = 0.412 W/kg**
Maximum value of SAR (measured) = 0.929 W/kg




0 dB = 0.929 W/kg = -0.32 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.24

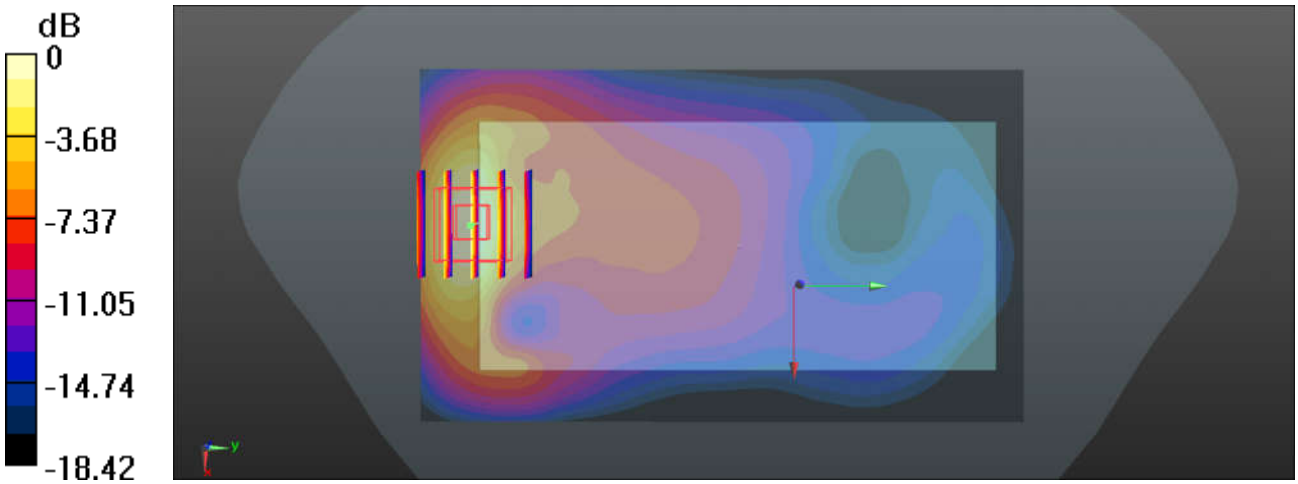
**42_GSM1900_GPRS 4 Tx slot_Back_10mm_Ch810**

Communication System: UID 0, GPRS/EDGE (4 Tx slots) (0); Frequency: 1909.8 MHz;Duty Cycle:1:2.08
Medium: MSL_1900 Medium parameters used: f = 1909.8 MHz; $\sigma$ = 1.526 S/m; $\varepsilon_r$ = 52.799;
$\rho$ = 1000$_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(8.44, 8.44, 8.44); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch810/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.764 W/kg

**Ch810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.411 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.958 W/kg
**SAR(1 g) = 0.559 W/kg; SAR(10 g) = 0.304 W/kg**
Maximum value of SAR (measured) = 0.783 W/kg




0 dB = 0.783 W/kg = -1.06 dBW/kg

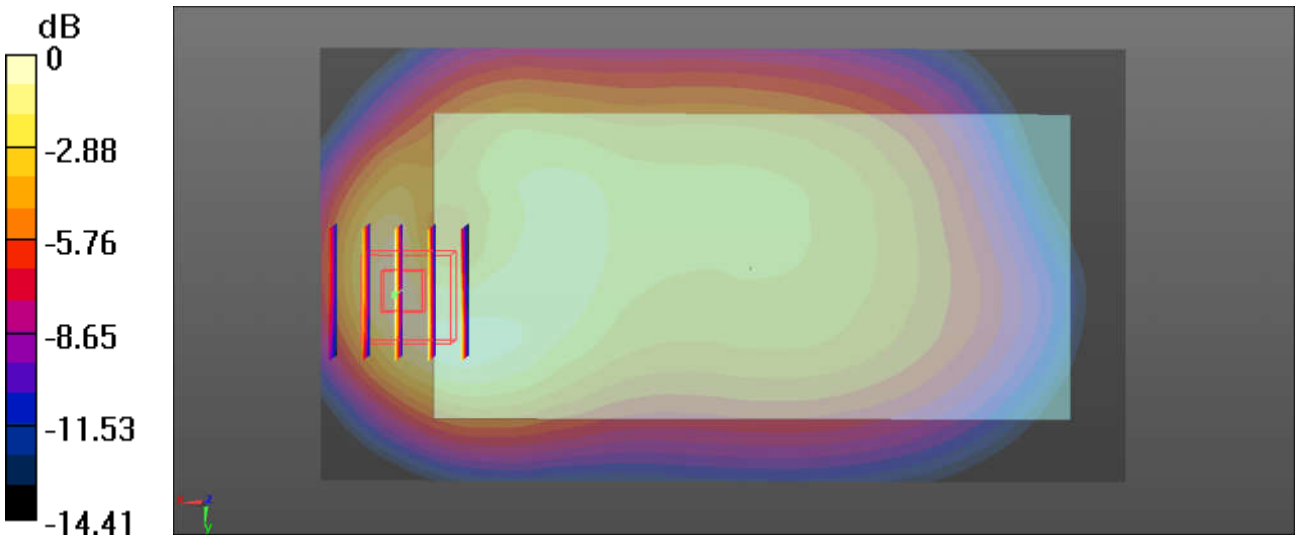
**43_WCDMA Band V_RMC 12.2Kbps_Back_10mm_Ch4132**

Communication System: UID 0, UMTS (0); Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: MSL_835 Medium parameters used: f = 826.4 MHz; $\sigma$ = 0.964 S/m; $\varepsilon_r$ = 55.221; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(10.14, 10.14, 10.14); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch4132/Area Scan (131x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.555 W/kg

**Ch4132/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.08 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.740 W/kg
**SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.256 W/kg**
Maximum value of SAR (measured) = 0.574 W/kg




0 dB = 0.574 W/kg = -2.41 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.24

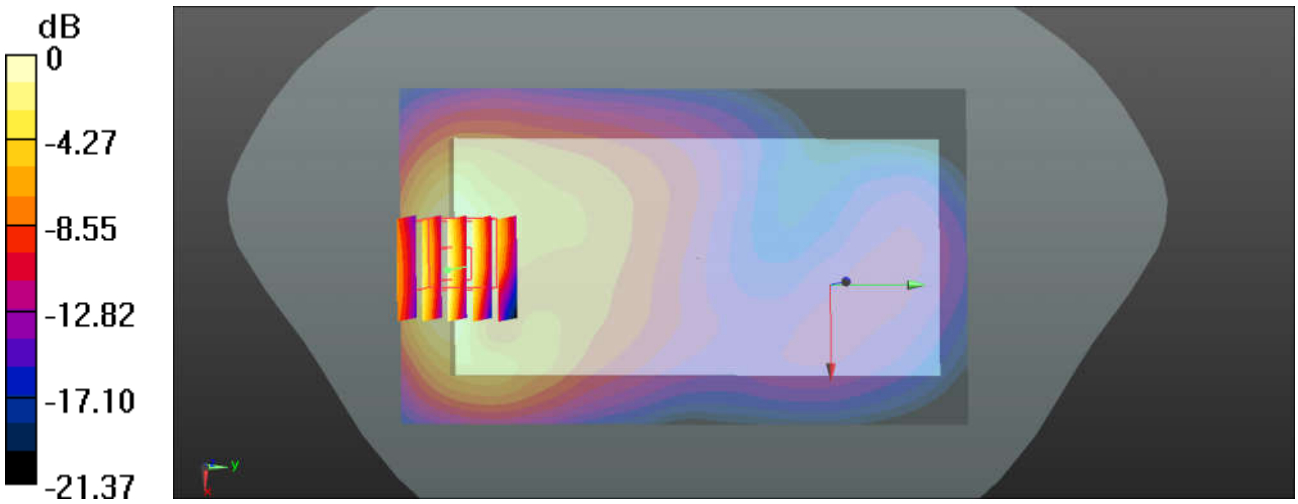
**44_WCDMA Band IV_RMC 12.2Kbps_Back_10mm_Ch1413**

Communication System: UID 0, UMTS (0); Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium: MSL_1750 Medium parameters used: f = 1732.6 MHz; $\sigma$ = 1.426 S/m; $\varepsilon_r$ = 54.753; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(8.99, 8.99, 8.99); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch1413/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.725 W/kg

**Ch1413/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.599 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.884 W/kg
**SAR(1 g) = 0.545 W/kg; SAR(10 g) = 0.308 W/kg**
Maximum value of SAR (measured) = 0.727 W/kg




0 dB = 0.727 W/kg = -1.38 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.24

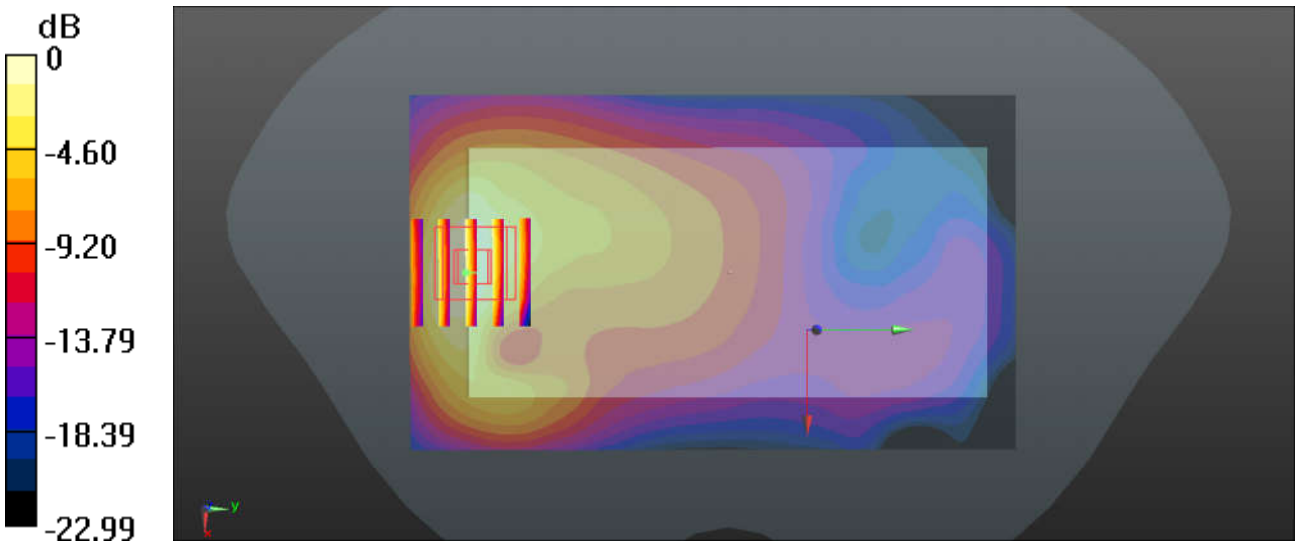
**45_WCDMA Band II_RMC 12.2Kbps_Back_10mm_Ch9538**

Communication System: UID 0, UMTS (0); Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1907.6 MHz; $\sigma$ = 1.524 S/m; $\varepsilon_r$ = 52.8; $\rho$ =1000$_{kg/m^3}$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(8.44, 8.44, 8.44); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch9538/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.707 W/kg

**Ch9538/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.228 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.841 W/kg
**SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.285 W/kg**
Maximum value of SAR (measured) = 0.683 W/kg




0 dB = 0.683 W/kg = -1.66 dBW/kg

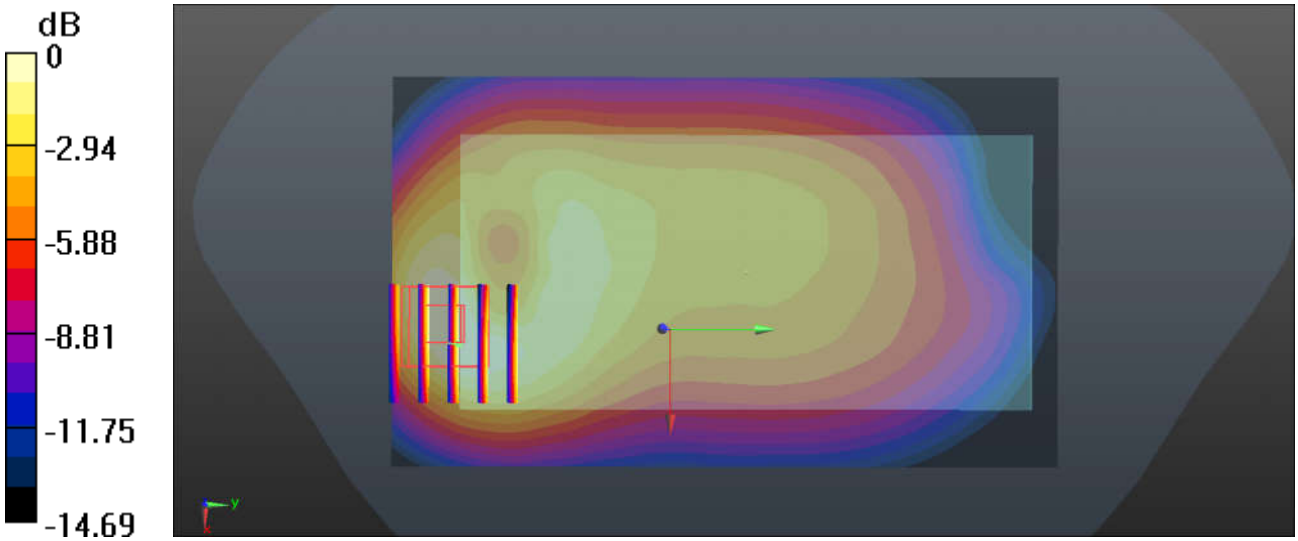
**46_CDMA2000 BC0_RC3 SO32 (F+SCH) _Back_10mm_Ch777**

Communication System: UID 0, CDMA2000 (0); Frequency: 848.31 MHz;Duty Cycle: 1:1
Medium: MSL_835 Medium parameters used: f = 848.31 MHz; $\sigma$ = 0.986 S/m; $\varepsilon_r$ = 55.019; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(10.14, 10.14, 10.14); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch777/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.592 W/kg

**Ch777/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.41 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.698 W/kg
**SAR(1 g) = 0.422 W/kg; SAR(10 g) = 0.247 W/kg**
Maximum value of SAR (measured) = 0.558 W/kg




0 dB = 0.558 W/kg = -2.53 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.27

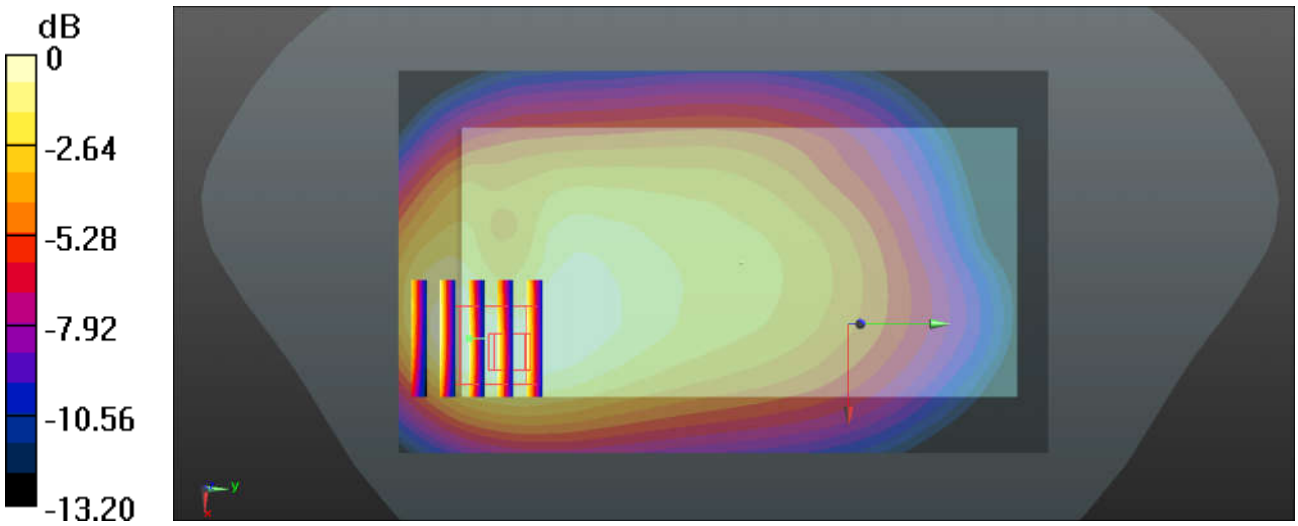
**47_LTE Band 12_10M_QPSK_1RB_0Offset_Back_10mm_Ch23095**

Communication System: UID 0, FDD_LTE (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium: MSL_750 Medium parameters used: f = 707.5 MHz; $\sigma$ = 0.928 S/m; $\varepsilon_r$ = 57.031; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(10.49, 10.49, 10.49); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch23095/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.344 W/kg

**Ch23095/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.67 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.390 W/kg
**SAR(1 g) = 0.239 W/kg; SAR(10 g) = 0.149 W/kg**
Maximum value of SAR (measured) = 0.312 W/kg




0 dB = 0.312 W/kg = -5.06 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.26

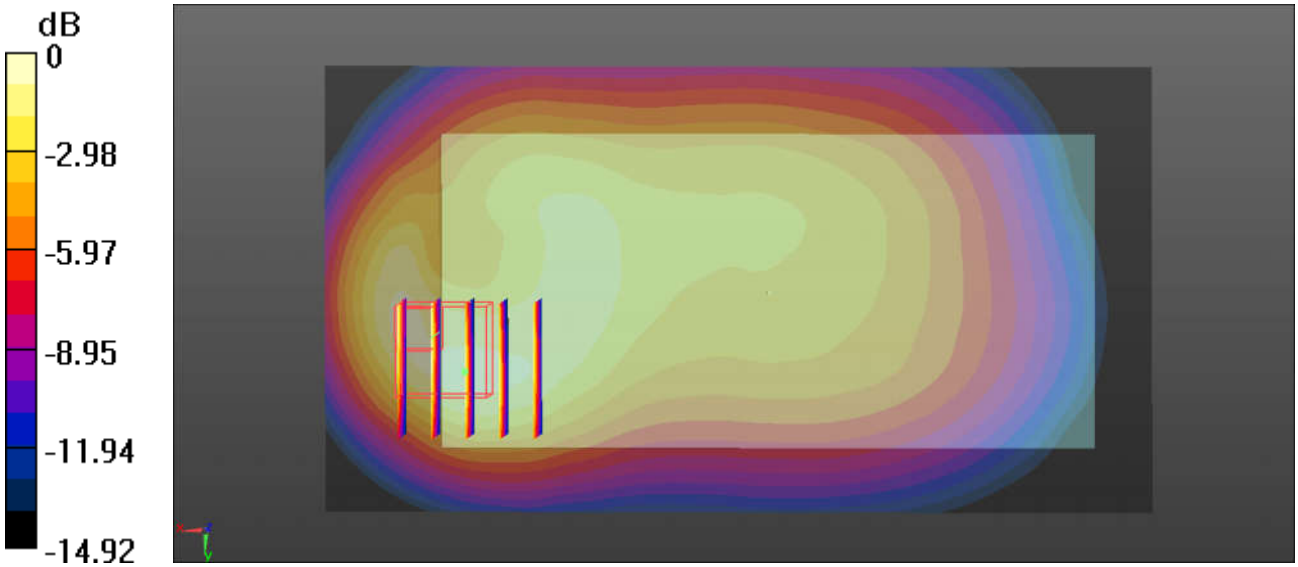
**48_LTE Band 5_10M_QPSK_25RB_0Offset_Back_10mm_Ch20525**

Communication System: UID 0, FDD_LTE (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: MSL_835 Medium parameters used: f = 836.5 MHz; $\sigma$ = 0.974 S/m; $\varepsilon_r$ = 55.131; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(10.14, 10.14, 10.14); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**20525/Area Scan (131x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.445 W/kg

**20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.67 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.600 W/kg
**SAR(1 g) = 0.352 W/kg; SAR(10 g) = 0.199 W/kg**
Maximum value of SAR (measured) = 0.474 W/kg




0 dB = 0.474 W/kg = -3.24 dBW/kg

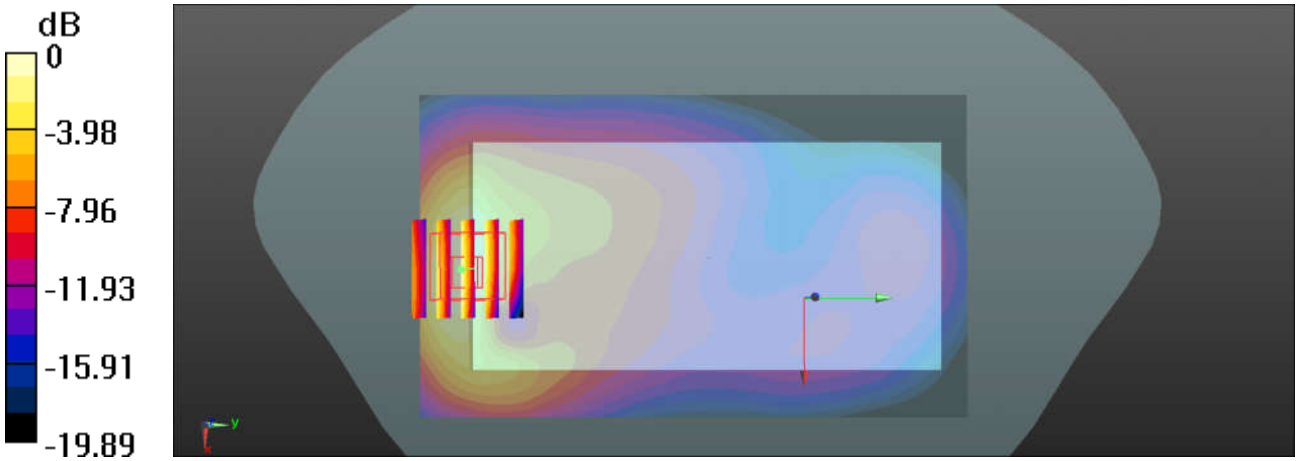
**49_LTE Band 4_20M_QPSK_1RB_0Offset_Back_10mm_Ch20175**

Communication System: UID 0, FDD_LTE (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium: MSL_1750 Medium parameters used: f = 1732.5 MHz; $\sigma$ = 1.426 S/m; $\varepsilon_r$ = 54.754; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(8.99, 8.99, 8.99); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch20175/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.559 W/kg

**Ch20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.946 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.651 W/kg
**SAR(1 g) = 0.411 W/kg; SAR(10 g) = 0.234 W/kg**
Maximum value of SAR (measured) = 0.543 W/kg




0 dB = 0.543 W/kg = -2.65 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.24

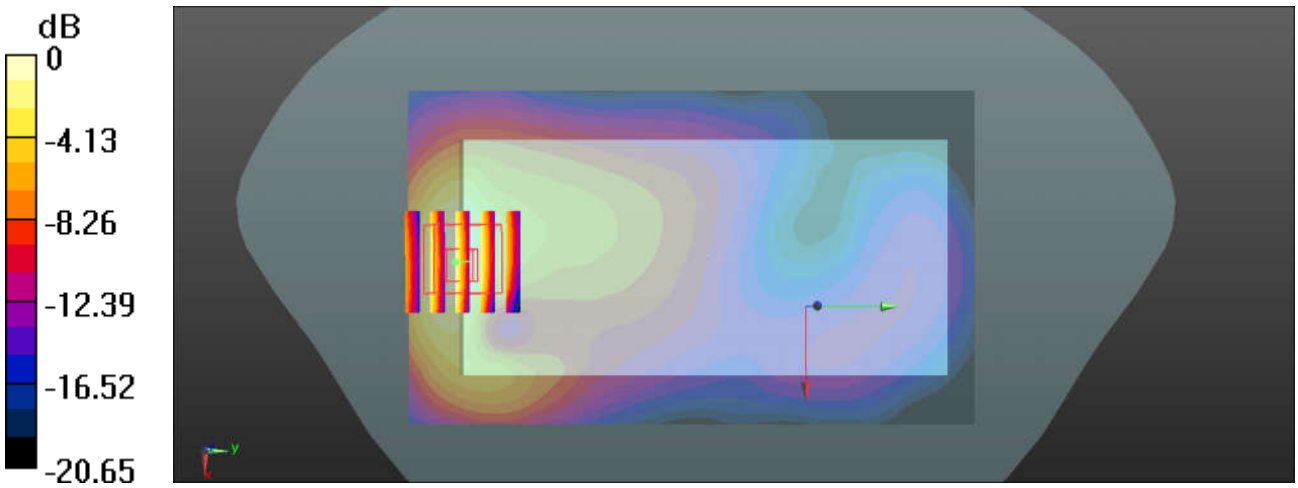
**50_LTE Band 2_20M_QPSK_1RB_0Offset_Back_10mm_Ch18900**

Communication System: UID 0, FDD_LTE (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1880 MHz; $\sigma$ = 1.486 S/m; $\varepsilon_r$ = 52.847; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(8.44, 8.44, 8.44); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch18900/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.554 W/kg

**Ch18900/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.564 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.639 W/kg
**SAR(1 g) = 0.395 W/kg; SAR(10 g) = 0.224 W/kg**
Maximum value of SAR (measured) = 0.530 W/kg




0 dB = 0.530 W/kg = -2.76 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.24

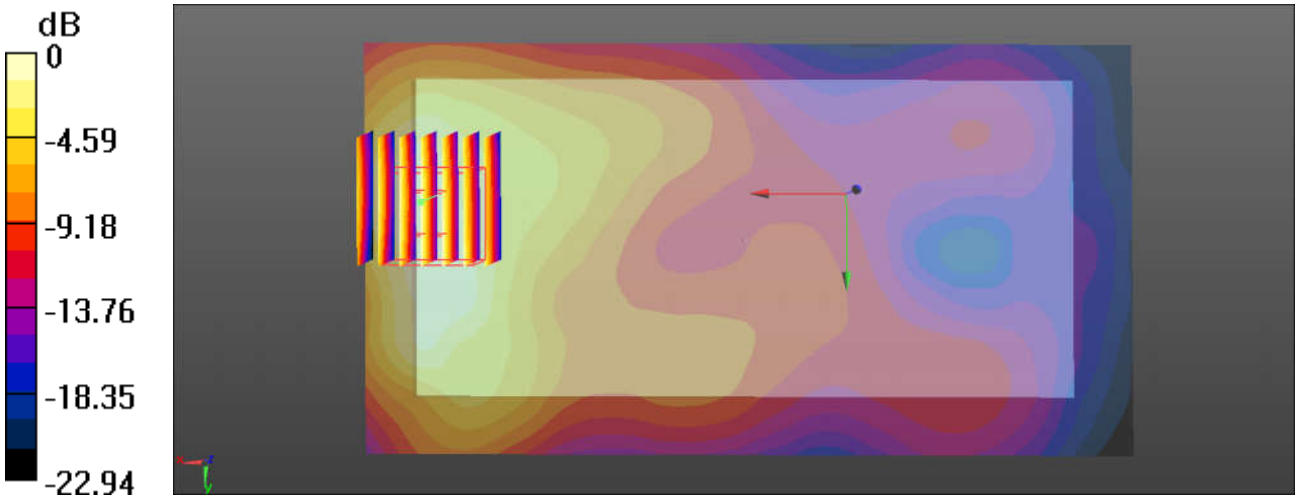
**51_LTE Band 7_20M_QPSK_1RB_0Offset_Back_10mm_Ch21100**

Communication System: UID 0, FDD_LTE (0); Frequency: 2535 MHz;Duty Cycle: 1:1
Medium: MSL_2600 Medium parameters used: f = 2535 MHz; $\sigma$ = 2.1 S/m; $\varepsilon_r$= 53.316; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.43, 7.43, 7.43); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch21100/Area Scan (151x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.874 W/kg

**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.750 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.09 W/kg
**SAR(1 g) = 0.601 W/kg; SAR(10 g) = 0.321 W/kg**
Maximum value of SAR (measured) = 0.845 W/kg




0 dB = 0.845 W/kg = -0.73 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.24

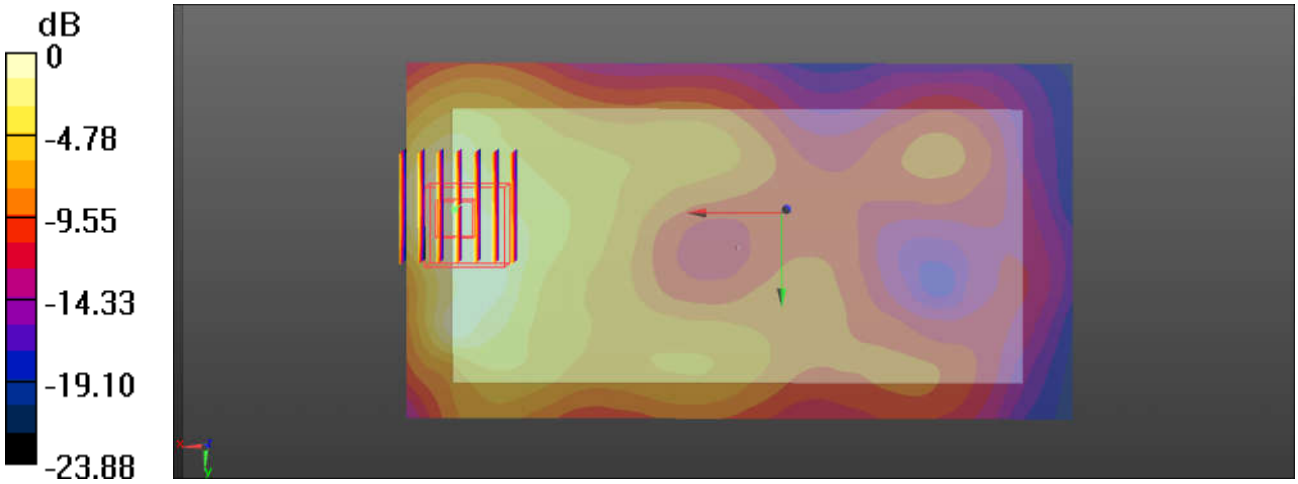
**52_LTE Band 41_20M_QPSK_1RB_0Offset_Back_10mm_Ch41140**

Communication System: UID 0, TDD_LTE (0); Frequency: 2645 MHz;Duty Cycle: 1:1.59
Medium: MSL_2600 Medium parameters used: f = 2645 MHz; $\sigma$ = 2.299 S/m; $\varepsilon_r$ = 52.795; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.43, 7.43, 7.43); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch41490/Area Scan (151x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.593 W/kg

**Ch41490/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.029 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.803 W/kg
**SAR(1 g) = 0.408 W/kg; SAR(10 g) = 0.212 W/kg**
Maximum value of SAR (measured) = 0.593 W/kg




0 dB = 0.593 W/kg = -2.27 dBW/kg

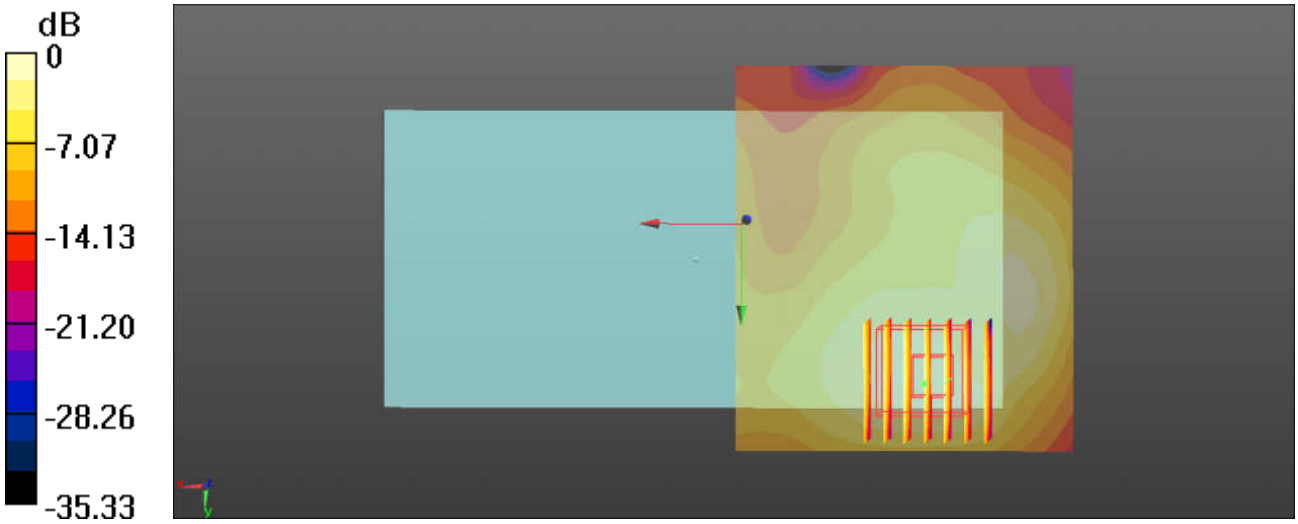
**53_WLAN2.4GHz_802.11b 1Mbps_Back_10mm_Ant 1_Ch11**

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz;Duty Cycle: 1:1.010
Medium: MSL_2450 Medium parameters used: f = 2462 MHz; $\sigma$ = 1.996 S/m; $\varepsilon_r$ = 53.579; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.83, 7.83, 7.83); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM1; Type: SAM; Serial: TP-1164
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch11/Area Scan (71x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.256 W/kg

**Ch11/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.134 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.350 W/kg
**SAR(1 g) = 0.188 W/kg; SAR(10 g) = 0.096 W/kg**
Maximum value of SAR (measured) = 0.266 W/kg




0 dB = 0.266 W/kg = -5.75 dBW/kg

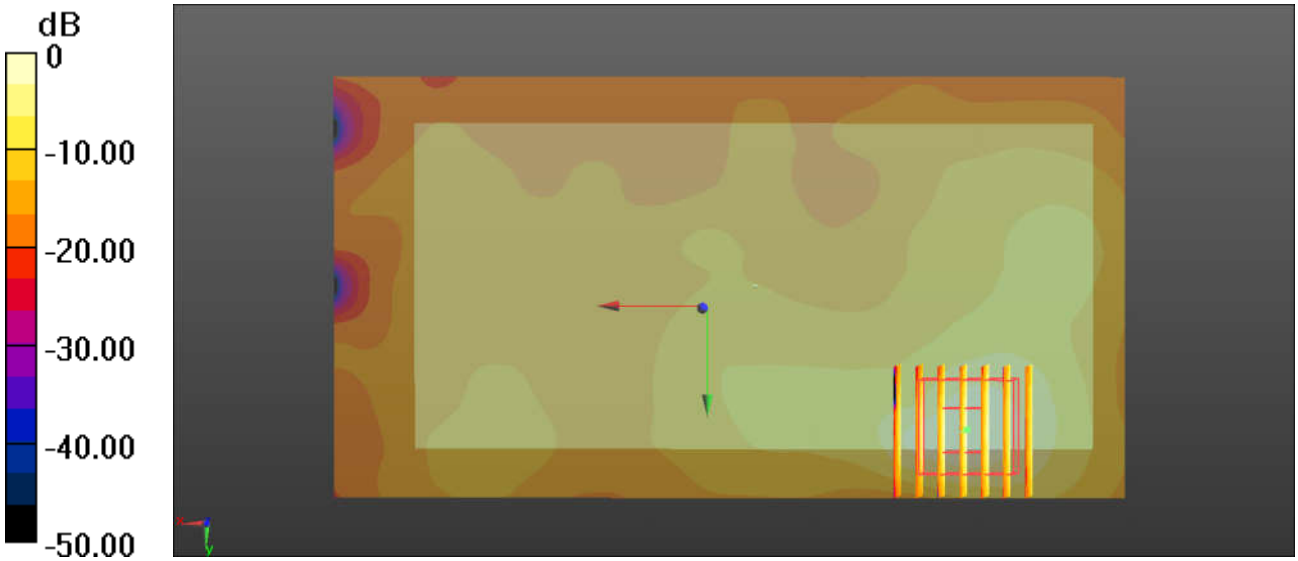
**54_WLAN2.4GHz_802.11b 1Mbps_Back_10mm_Ant 2_Ch1**

Communication System: UID 0, WIFI (0); Frequency: 2412 MHz;Duty Cycle: 1:1.010
Medium: MSL_2450 Medium parameters used: f = 2412 MHz; $\sigma$ = 1.928 S/m; $\varepsilon_r$ = 53.749; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.83, 7.83, 7.83); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM1; Type: SAM; Serial: TP-1164
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch1/Area Scan (151x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.188 W/kg

**Ch1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.078 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.281 W/kg
**SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.054 W/kg**
Maximum value of SAR (measured) = 0.201 W/kg




0 dB = 0.201 W/kg = -6.97 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.29

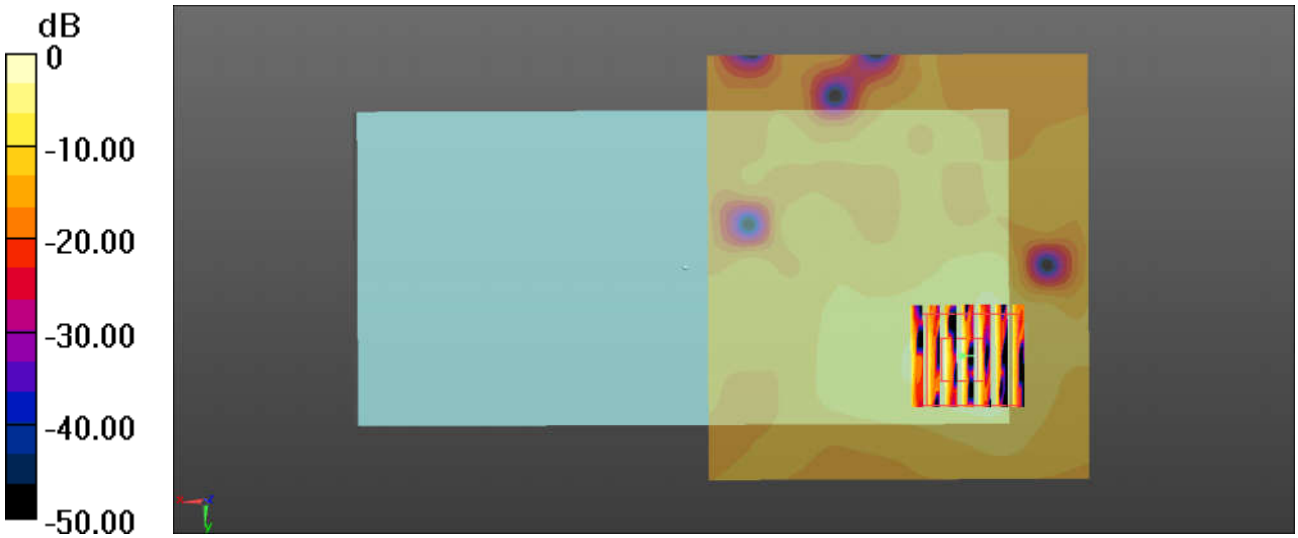
**55_WLAN5.3GHz_802.11a 6Mbp_Back_10mm_Ant 1_Ch64**

Communication System: UID 0, WIFI (0); Frequency: 5320 MHz;Duty Cycle: 1:1.024
Medium: MSL_5000 Medium parameters used: f = 5320 MHz; $\sigma$ = 5.64 S/m; $\varepsilon_r$ = 46.898; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.2 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.64, 4.64, 4.64); Calibrated: 2017.12.18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch64/Area Scan (101x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.282 W/kg

**Ch64/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.324 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.572 W/kg
**SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.037 W/kg**
Maximum value of SAR (measured) = 0.347 W/kg




0 dB = 0.347 W/kg = -4.60 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.29

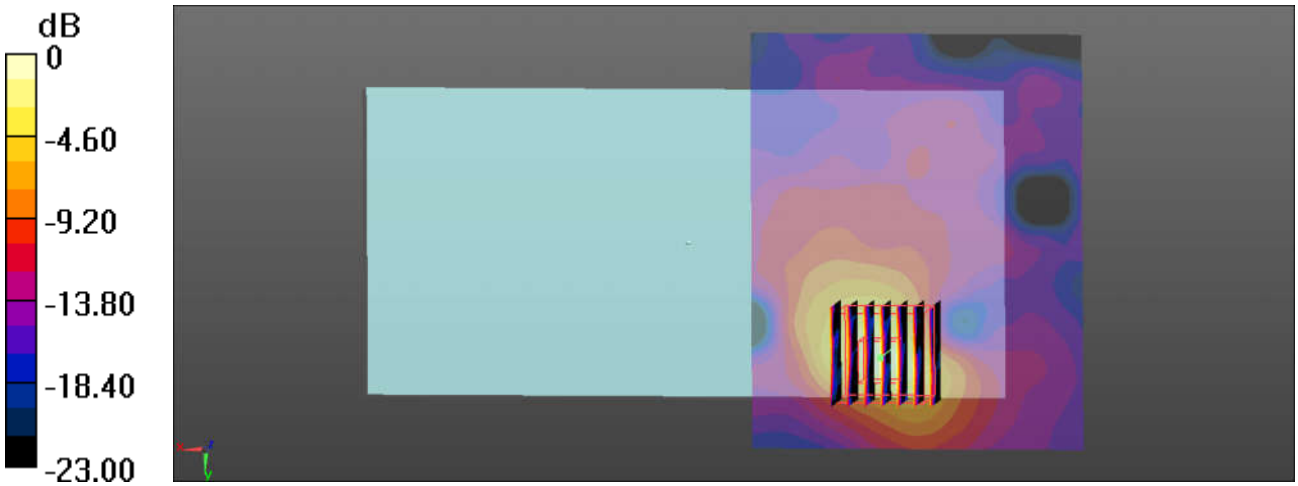
**56_WLAN5.3GHz_802.11a 6Mbp_Back_10mm_Ant 2_Ch52**

Communication System: UID 0, WIFI (0); Frequency: 5260 MHz;Duty Cycle: 1:1.024
Medium: MSL_5000 Medium parameters used: f = 5260 MHz; $\sigma$ = 5.56 S/m; $\varepsilon_r$ = 46.995; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.2 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.64, 4.64, 4.64); Calibrated: 2017.12.18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch52/Area Scan (101x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.496 W/kg

**Ch52/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.829 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.79 W/kg
**SAR(1 g) = 0.229 W/kg; SAR(10 g) = 0.068 W/kg**
Maximum value of SAR (measured) = 0.584 W/kg




0 dB = 0.584 W/kg = -2.34 dBW/kg

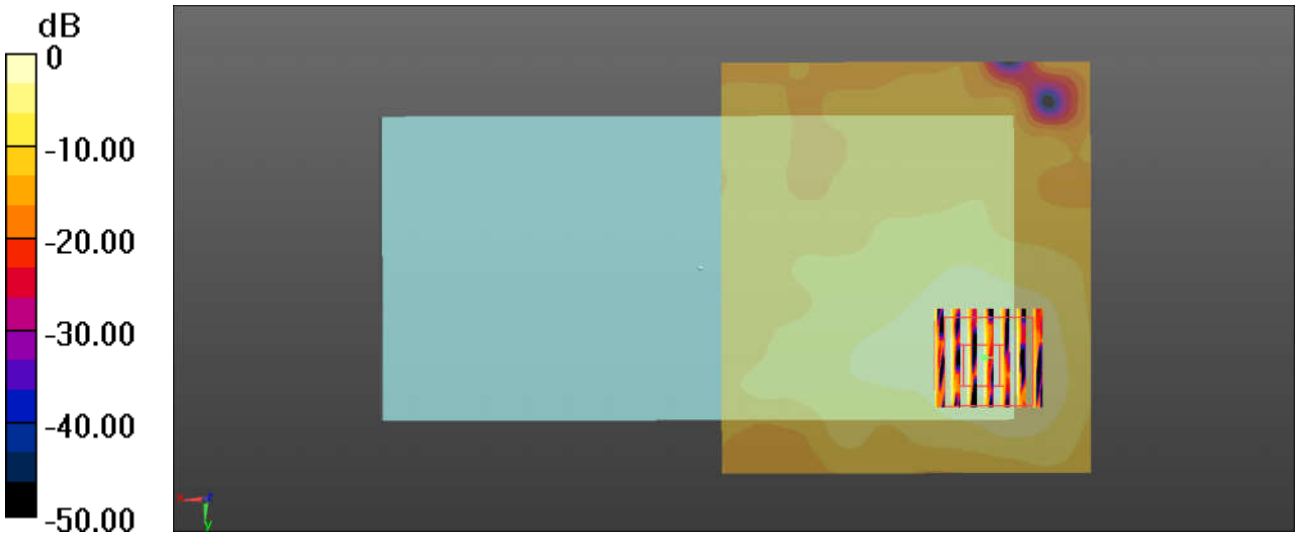
**57_WLAN5.5GHz_802.11a 6Mbp_Back_10mm_Ant 1_Ch100**

Communication System: UID 0, WIFI (0); Frequency: 5500 MHz;Duty Cycle: 1:1.024
Medium: MSL_5000 Medium parameters used: f = 5500 MHz; $\sigma$ = 5.88 S/m; $\varepsilon_r$ = 46.566; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.2 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.22, 4.22, 4.22); Calibrated: 2017.12.18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch100/Area Scan (101x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.286 W/kg

**Ch100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 2.005 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.691 W/kg
**SAR(1 g) = 0.151 W/kg; SAR(10 g) = 0.049 W/kg**
Maximum value of SAR (measured) = 0.378 W/kg




0 dB = 0.378 W/kg = -4.23 dBW/kg

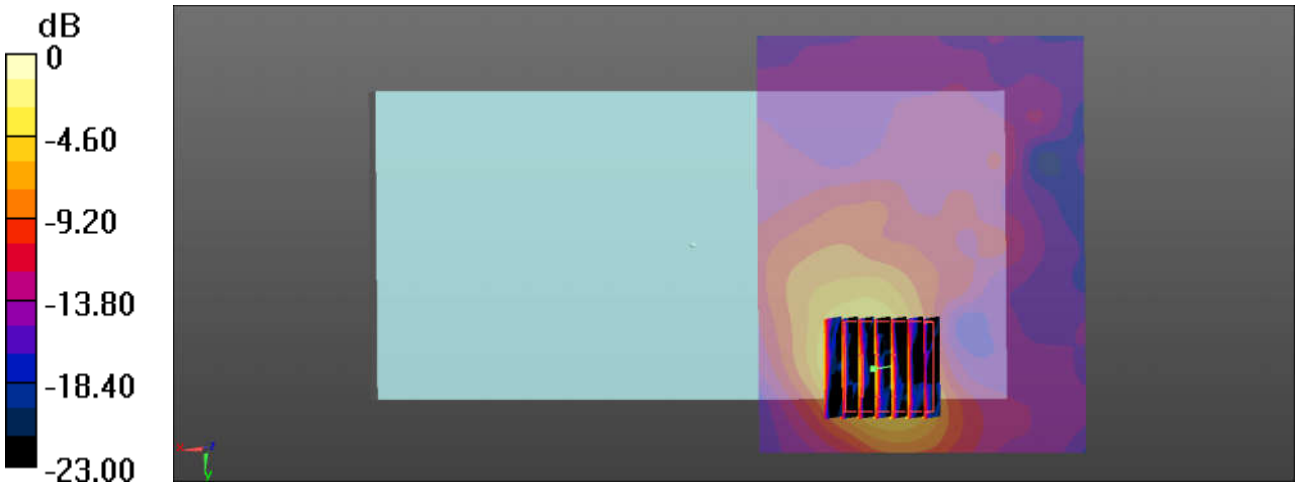
**58_WLAN5.5GHz_802.11a 6Mbp_Back_10mm_Ant 2_Ch100**

Communication System: UID 0, WIFI (0); Frequency: 5500 MHz;Duty Cycle: 1:1.024
Medium: MSL_5000 Medium parameters used: f = 5500 MHz; $\sigma$ = 5.88 S/m; $\varepsilon_r$ = 46.566; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.2 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.22, 4.22, 4.22); Calibrated: 2017.12.18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch100/Area Scan (101x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.539 W/kg

**Ch100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.903 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.10 W/kg
**SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.078 W/kg**
Maximum value of SAR (measured) = 0.629 W/kg




0 dB = 0.629 W/kg = -2.01 dBW/kg

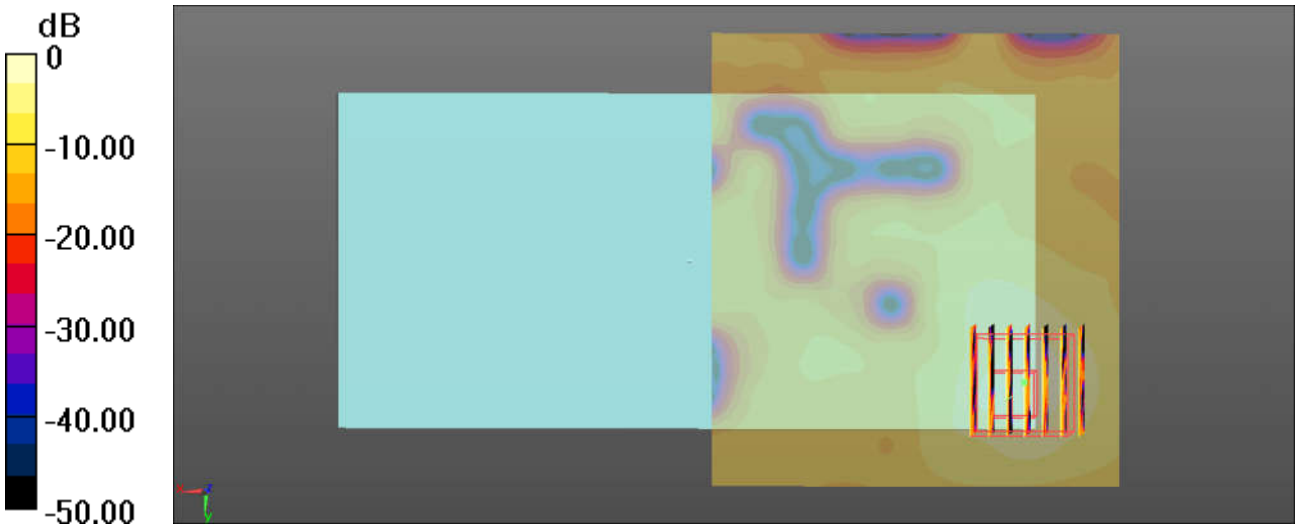
**59_WLAN5.8GHz_802.11a 6Mbp_Back_10mm_Ant 1_Ch149**

Communication System: UID 0, WIFI (0); Frequency: 5745 MHz;Duty Cycle: 1:1.024
Medium: MSL_5000 Medium parameters used: f = 5745 MHz; $\sigma$ = 6.221 S/m; $\varepsilon_r$ = 46.161; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.2 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.41, 4.41, 4.41); Calibrated: 2017.12.18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch149/Area Scan (101x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.218 W/kg

**Ch149/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0.9930 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.491 W/kg
**SAR(1 g) = 0.099 W/kg; SAR(10 g) = 0.033 W/kg**
Maximum value of SAR (measured) = 0.259 W/kg




0 dB = 0.259 W/kg = -5.87 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.30

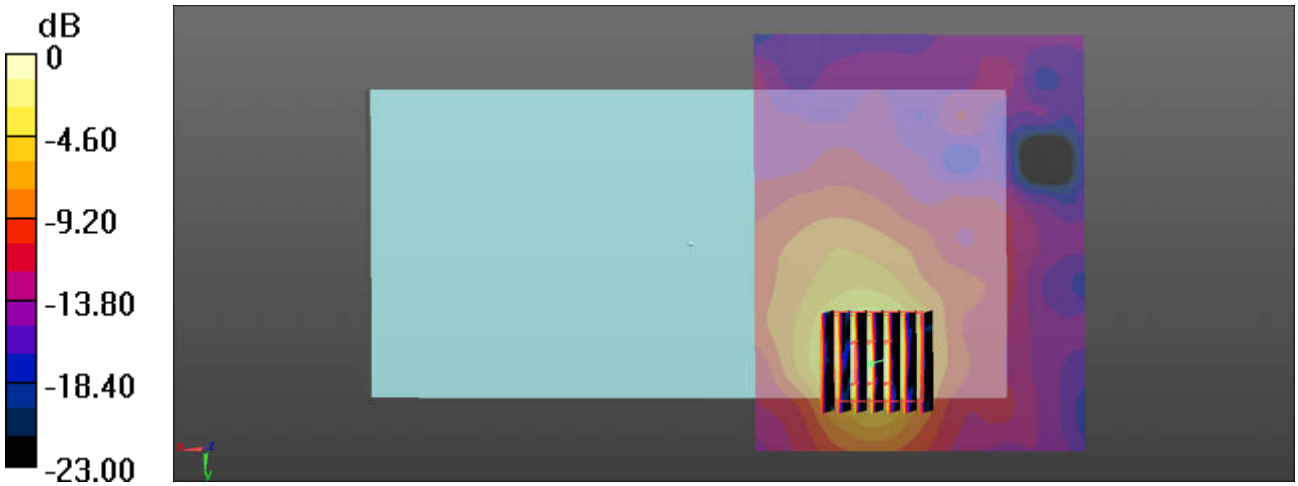
**60_WLAN5.8GHz_802.11a 6Mbp_Back_10mm_Ant 2_Ch149**

Communication System: UID 0, WIFI (0); Frequency: 5745 MHz;Duty Cycle: 1:1.024
Medium: MSL_5000 Medium parameters used: f = 5745 MHz; $\sigma$ = 6.221 S/m; $\varepsilon_r$ = 46.161; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.2 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(4.41, 4.41, 4.41); Calibrated: 2017.12.18;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM3; Type: SAM; Serial: TP-1542
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch149/Area Scan (101x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.507 W/kg

**Ch149/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.871 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.13 W/kg
**SAR(1 g) = 0.244 W/kg; SAR(10 g) = 0.077 W/kg**
Maximum value of SAR (measured) = 0.626 W/kg




0 dB = 0.626 W/kg = -2.03 dBW/kg

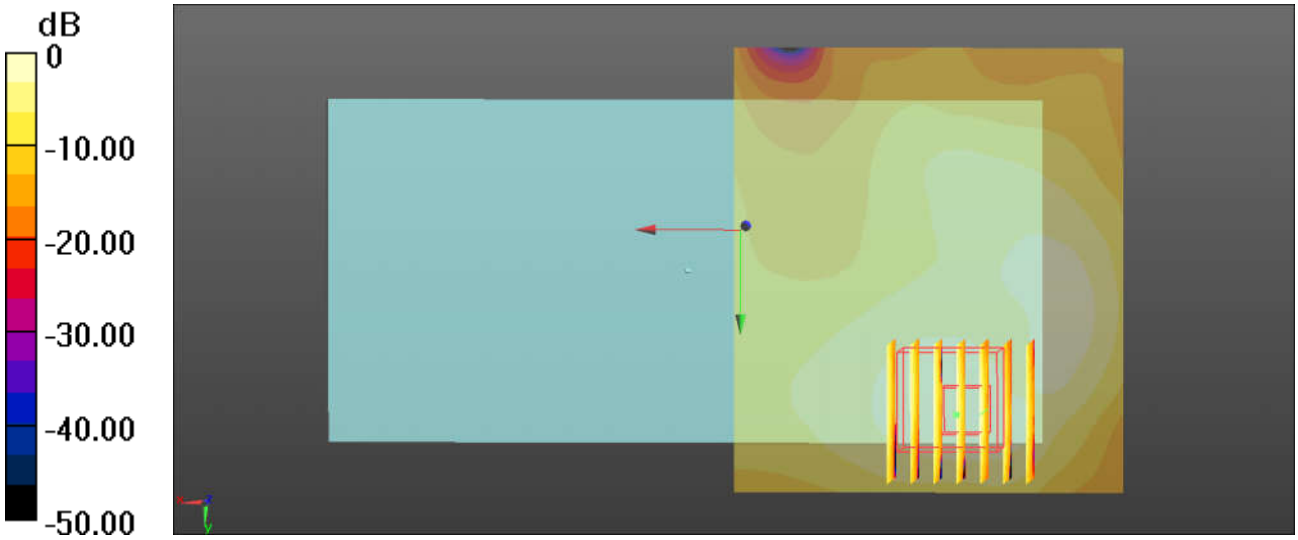
**61_ Bluetooth_ 1Mbps_Back_10mm_Ant 1_Ch78**

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz;Duty Cycle: 1:1.297
Medium: MSL_2450 Medium parameters used: f = 2480 MHz; $\sigma$ = 2.023 S/m; $\varepsilon_r$ = 53.514; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.3 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(7.83, 7.83, 7.83); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM1; Type: SAM; Serial: TP-1164
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch78/Area Scan (71x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0976 W/kg

**Ch78/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.186 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.133 W/kg
**SAR(1 g) = 0.071 W/kg; SAR(10 g) = 0.035 W/kg**
Maximum value of SAR (measured) = 0.103 W/kg




0 dB = 0.103 W/kg = -9.87 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.5.24

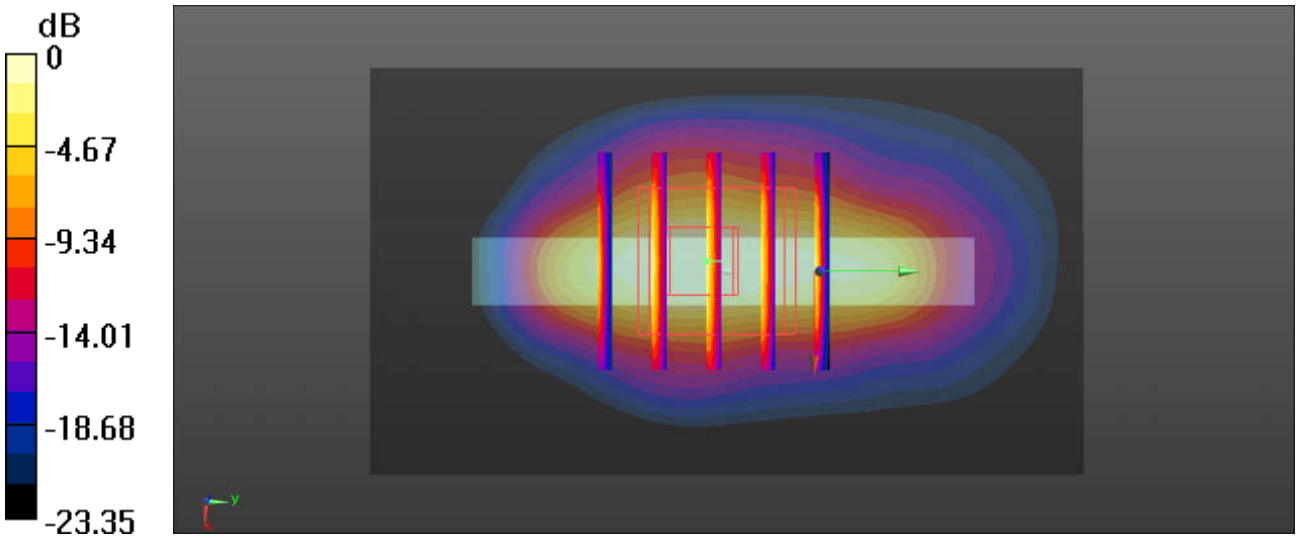
**62_GSM1900_GPRS 4 Tx slot_Bottom Side_0mm_Ch512**

Communication System: UID 0, GPRS/EDGE (4 Tx slots) (0); Frequency: 1850.2 MHz;Duty Cycle:1:2.08
Medium: MSL_1900 Medium parameters used: f = 1850.2 MHz; $\sigma$ = 1.445 S/m; $\varepsilon_r$ = 52.961;
$\rho$ =1000 kg/m$^3$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7375; ConvF(8.44, 8.44, 8.44); Calibrated: 2017.12.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2017.7.13
- Phantom: SAM2; Type: SAM; Serial: TP-1644
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch512/Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 8.36 W/kg

**Ch512/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 65.48 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 9.58 W/kg
**SAR(1 g) = 4.33 W/kg; SAR(10 g) = 1.92 W/kg**
Maximum value of SAR (measured) = 7.06 W/kg




0 dB = 7.06 W/kg = 8.49 dBW/kg