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APPENDIX C2: SAR DISTRIBUTION PLOTS FOR HOT SPOT CONFIGURATION

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802.11a

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Date: 12/10/2014

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA

Configuration: Mobile Hotspot MSL - 802.11a 5200 MHz

Communication System: 802.11a (0); Communication System Band: Low and Mid Bands;

Frequency: 5180 MHz, Duty Cycle: 1:1

Medium Parameters used: $f=5180$ MHz; $\sigma = 5.612$ S/m; $\epsilon_r = 46.703$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF: (4.06,4.06,4.06); Calibrated: 11/10/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Back -

802.11a_chan36_low_band_Amb_Temp_23.4C_Liquid_Temp_22.2C/Area Scan (181x241x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.123 W/kg

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Back -

802.11a_chan36_low_band_Amb_Temp_23.4C_Liquid_Temp_22.2C/Zoom Scan

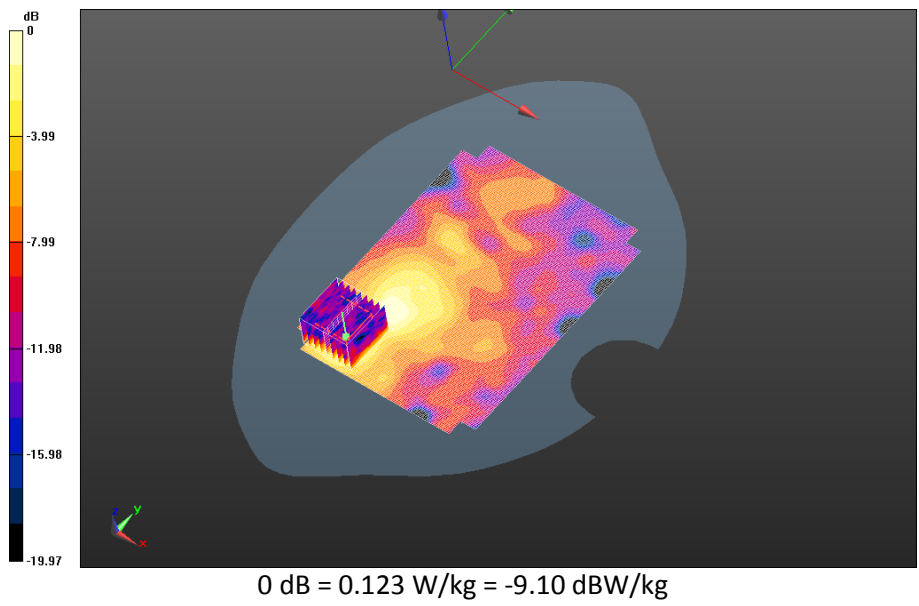
(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 2.857 V/m; Power Drift = -0.069 dB

Averaged SAR: SAR(1g) = 0.0674 W/kg; SAR(10g) = 0.0294 W/kg

Maximum value of SAR (interpolated) = 0.220 W/kg

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Date: 12/10/2014

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA

Configuration: Mobile Hotspot MSL - 802.11a 5800 MHz

Communication System: 802.11a (0); Communication System Band: Low and Mid Bands;
Frequency: 5745 MHz, Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1
Medium Parameters used: $f=5745$ MHz; $\sigma = 6.423$ S/m; $\epsilon_r = 45.305$; $\rho = 1.000$ g/cm³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF: (3.86,3.86,3.86); Calibrated: 11/10/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hotspot MSL - 802.11a 5800 MHz/10mm Device Back -

802.11a_chan149_upper_bandII_Amb_Temp_23.2C_Liquid_Temp_22.0C/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.195 W/kg

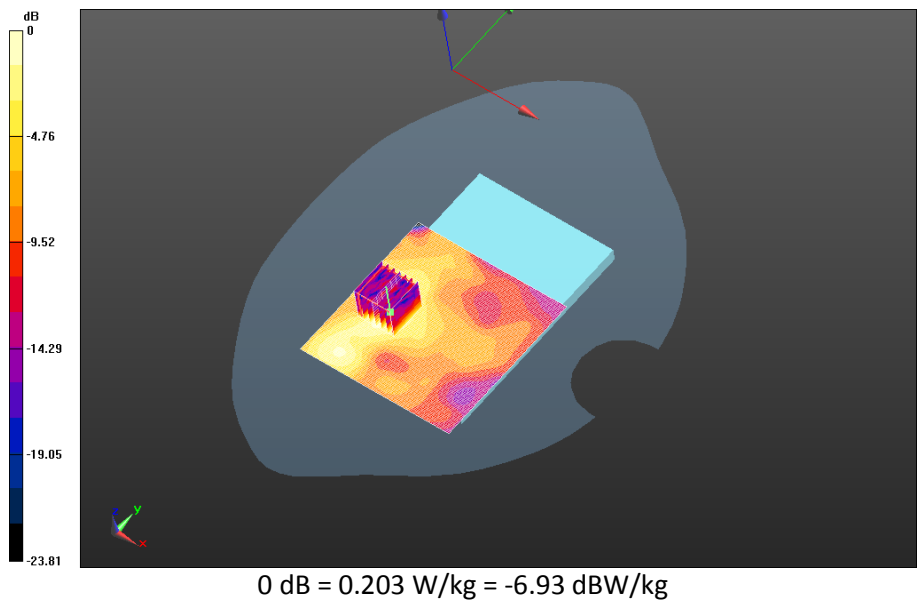
Mobile Hotspot MSL - 802.11a 5800 MHz/10mm Device Back -

802.11a_chan149_upper_bandII_Amb_Temp_23.2C_Liquid_Temp_22.0C/Zoom Scan (31x31x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 2.222 V/m; Power Drift = -0.200 dB

Averaged SAR: SAR(1g) = 0.115 W/kg; SAR(10g) = 0.0460 W/kg

Maximum value of SAR (interpolated) = 0.575 W/kg

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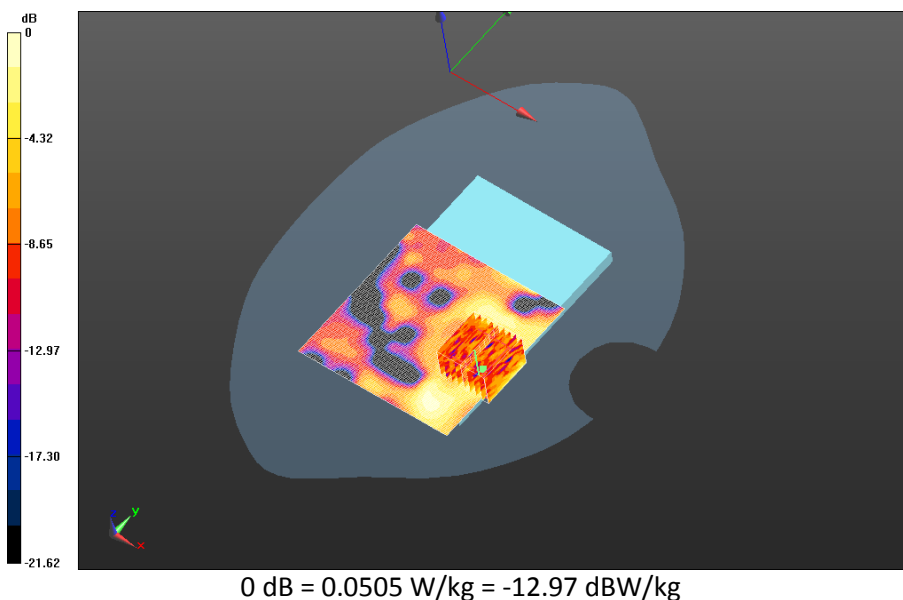


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Mobile Hotspot MSL - 802.11a 5800 MHz/10mm Device Front -
802.11a_chan149_upper_bandII_Amb_Temp_23.2C_Liquid_Temp_21.9C/Area Scan
(101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0467 W/kg

Mobile Hotspot MSL - 802.11a 5800 MHz/10mm Device Front -
802.11a_chan149_upper_bandII_Amb_Temp_23.2C_Liquid_Temp_21.9C/Zoom Scan
(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.879 V/m; Power Drift = 0.217 dB

Averaged SAR: SAR(1g) = 0.0275 W/kg; SAR(10g) = 0.0138 W/kg
Maximum value of SAR (interpolated) = 0.121 W/kg

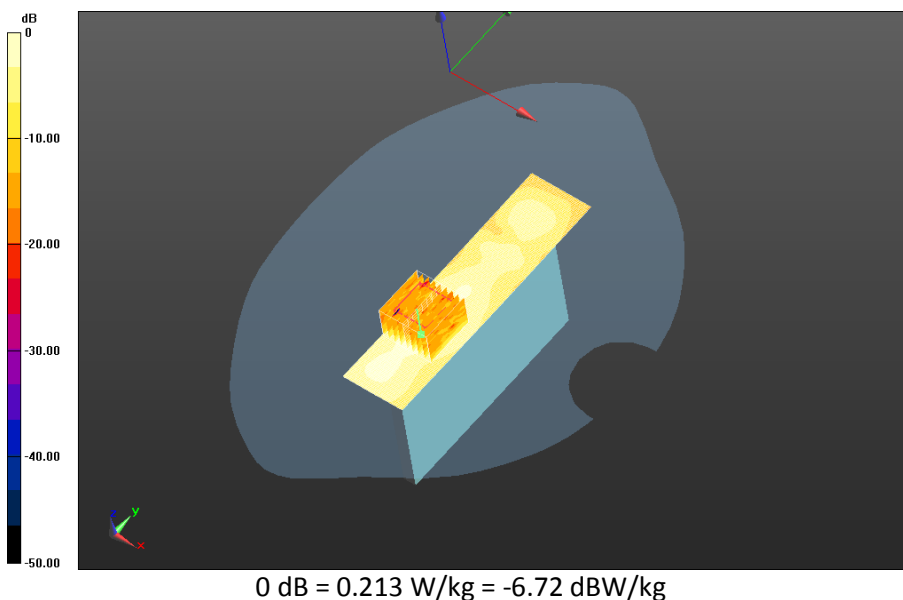


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Mobile Hotspot MSL - 802.11a 5800 MHz/10mm Device Left -
802.11a_chan149_upper_bandII_Amb_Temp_23.1C_Liquid_Temp_22.0C/Area Scan
(181x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.213 W/kg

Mobile Hotspot MSL - 802.11a 5800 MHz/10mm Device Left -
802.11a_chan149_upper_bandII_Amb_Temp_23.1C_Liquid_Temp_22.0C/Zoom Scan
(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 3.935 V/m; Power Drift = 0.051 dB

Averaged SAR: SAR(1g) = 0.115 W/kg; SAR(10g) = 0.0498 W/kg
Maximum value of SAR (interpolated) = 0.528 W/kg



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Mobile Hotspot MSL - 802.11a 5800 MHz/10mm Device Top -
802.11a_chan149_upper_bandII_Amb_Temp_23.1C_Liquid_Temp_22.0C/Area Scan
(181x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0632 W/kg

Mobile Hotspot MSL - 802.11a 5800 MHz/10mm Device Top -
802.11a_chan149_upper_bandII_Amb_Temp_23.1C_Liquid_Temp_22.0C/Zoom Scan
(46x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.914 V/m; Power Drift = 0.651 dB

Averaged SAR: SAR(1g) = 0.0387 W/kg; SAR(10g) = 0.0195 W/kg
Maximum value of SAR (interpolated) = 0.194 W/kg

