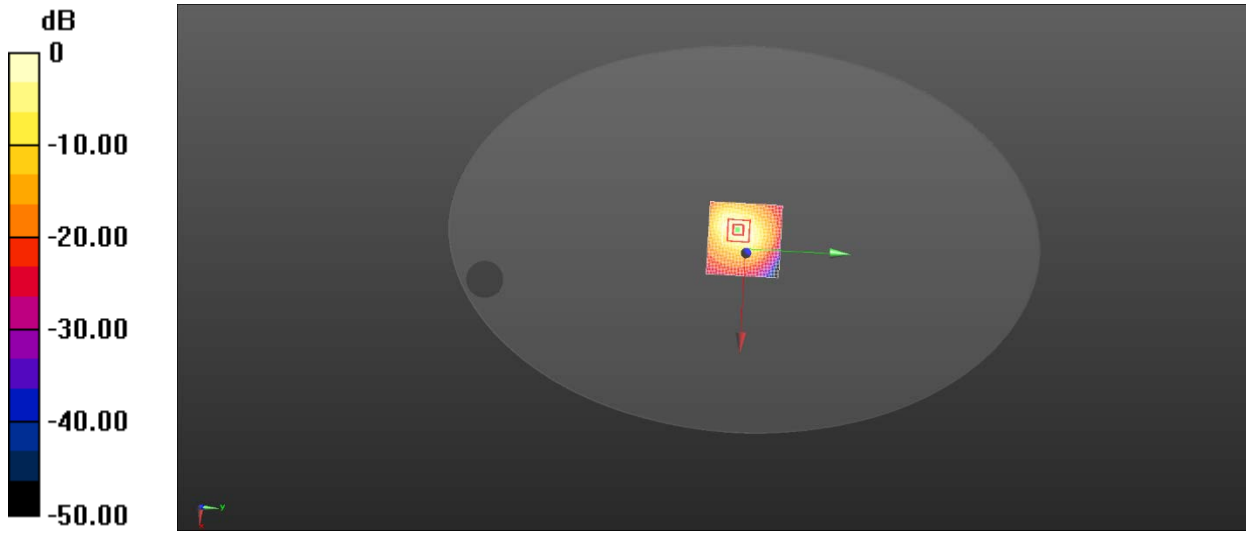
Plot 1

Date/Time: 11/17/2016 7:23:48 PM

Test Laboratory: Microsoft EMC
DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:916
Communication System: UID 0, CW (0); Frequency: 2450 MHz
Medium parameters used: f = 2450 MHz; σ = 1.957 S/m; ε_r = 50.617; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY Configuration:

- Probe: EX3DV4 - SN3939; ConvF(7.21, 7.21, 7.21); Calibrated: 5/20/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 33.0
- Electronics: DAE4 Sn1383; Calibrated: 5/18/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1218
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7164)

System Validation @ 2450MHz/Pin = 100 mW/Area Scan (61x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Reference Value = 40.906 V/m; Power Drift = 0.06 dB
Fast SAR: SAR(1 g) = 4.87 W/kg; SAR(10 g) = 2.1 W/kg
Maximum value of SAR (interpolated) = 7.66 W/kg
System Validation @ 2450MHz/Pin = 100 mW/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 40.906 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 9.87 W/kg
SAR(1 g) = 4.77 W/kg; SAR(10 g) = 2.2 W/kg
Maximum value of SAR (measured) = 7.33 W/kg



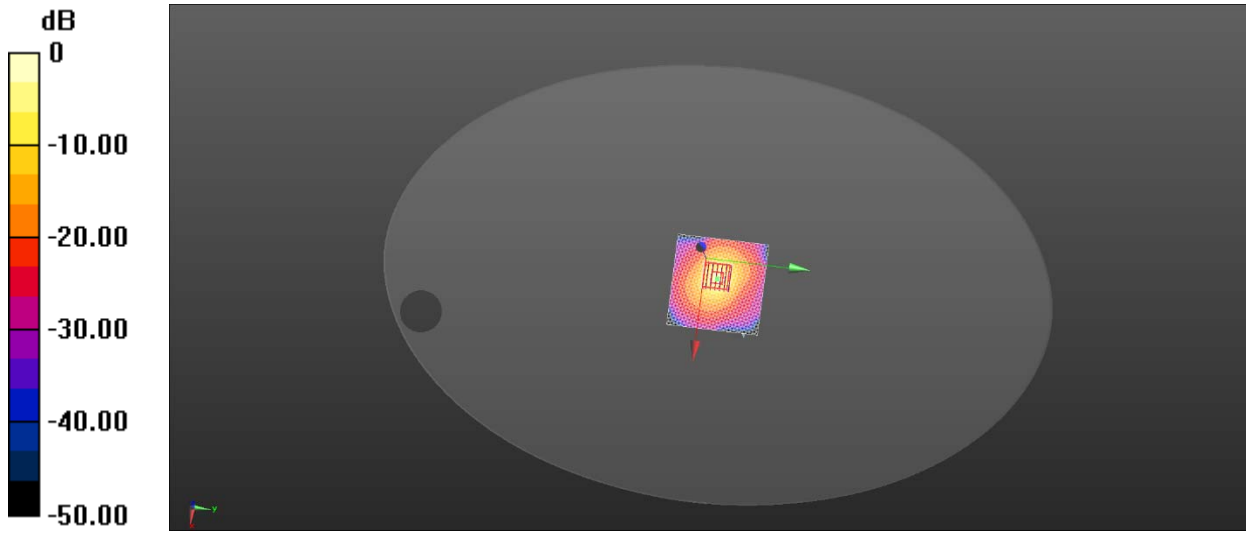
Plot 2

Date/Time: 11/17/2016 8:41:01 PM

Test Laboratory: Microsoft EMC
DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1158
Communication System: UID 0, CW (0); Frequency: 5200 MHz
Medium parameters used: f = 5200 MHz; σ = 5.454 S/m; ε_r = 47.087; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY Configuration:

- Probe: EX3DV4 - SN3939; ConvF(4.24, 4.24, 4.24); Calibrated: 5/20/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE4 Sn1383; Calibrated: 5/18/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1218
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7164)

System Validation @ 5200MHz Pin=100 mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 34.765 V/m; Power Drift = -0.03 dB
Fast SAR: SAR(1 g) = 6.35 W/kg; SAR(10 g) = 1.83 W/kg
Maximum value of SAR (interpolated) = 9.72 W/kg
System Validation @ 5200MHz Pin=100 mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 34.765 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 31.7 W/kg
SAR(1 g) = 7.77 W/kg; SAR(10 g) = 2.18 W/kg
Maximum value of SAR (measured) = 16.5 W/kg



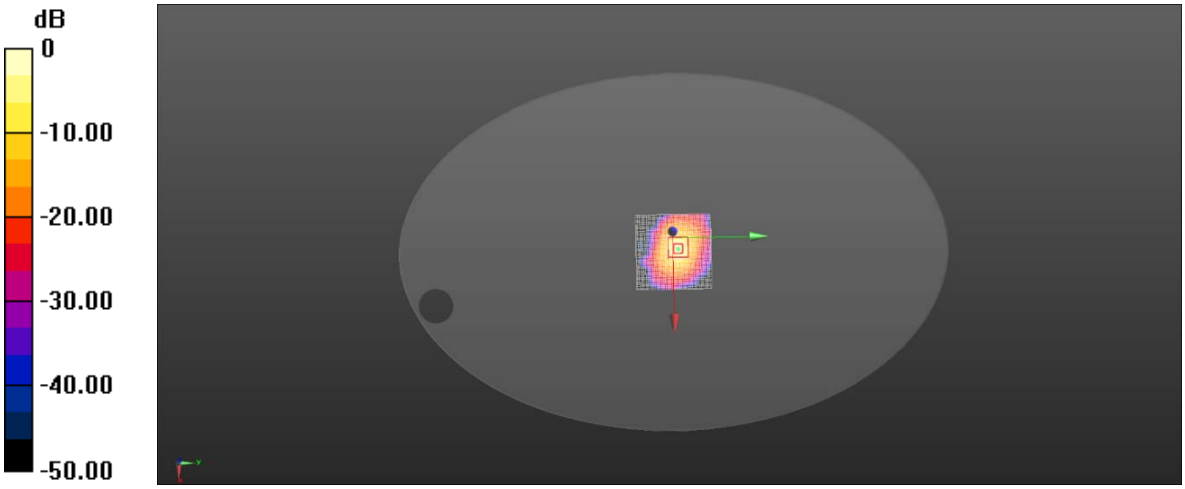
Plot 3

Date/Time: 11/17/2016 9:14:52 PM

Test Laboratory: Microsoft EMC
DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1158
Communication System: UID 0, CW (0); Frequency: 5800 MHz
Medium parameters used (interpolated): f = 5800 MHz; σ = 6.164 S/m; ε_r = 46.976; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY Configuration:

- Probe: EX3DV4 - SN3939; ConvF(3.77, 3.77, 3.77); Calibrated: 5/20/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE4 Sn1383; Calibrated: 5/18/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1218
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7164)

System Validation @ 5800MHz Pin=100 mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 31.301 V/m; Power Drift = -0.04 dB
Fast SAR: SAR(1 g) = 6.86 W/kg; SAR(10 g) = 1.92 W/kg
Maximum value of SAR (interpolated) = 10.4 W/kg
System Validation @ 5800MHz Pin=100 mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 31.301 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 32.8 W/kg
SAR(1 g) = 7.31 W/kg; SAR(10 g) = 2.02 W/kg
Maximum value of SAR (measured) = 16.0 W/kg



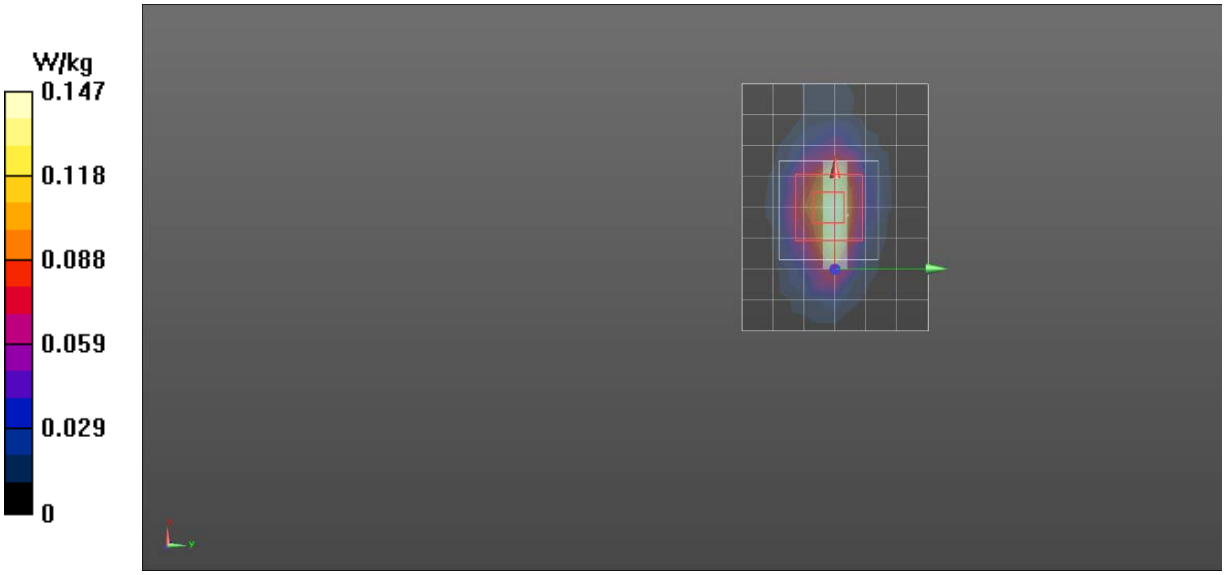
Plot 4

Date/Time: 11/18/2016 9:18:08 PM

Test Laboratory: Microsoft EMC
DUT: 1790; Type: USB Dongle; Serial: 40011393
Communication System: UID 0, 802.11 2.4 GHz (0); Frequency: 2437 MHz
Medium parameters used: f = 2437 MHz; σ = 1.949 S/m; ε_r = 50.753; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY Configuration:

- Probe: EX3DV4 - SN3939; ConvF(7.21, 7.21, 7.21); Calibrated: 5/20/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 33.0
- Electronics: DAE4 Sn1383; Calibrated: 5/18/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1218
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7164)

Flat-Section MSL USB cable Powered/11/18/2016 g mode Vertical Front 5 mm 9 dBm Tune up 2437 MHz/Area Scan (81x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 8.739 V/m; Power Drift = 0.09 dB
Fast SAR: SAR(1 g) = 0.104 W/kg; SAR(10 g) = 0.047 W/kg
Maximum value of SAR (interpolated) = 0.155 W/kg
Flat-Section MSL USB cable Powered/11/18/2016 g mode Vertical Front 5 mm 9 dBm Tune up 2437 MHz/Zoom Scan (9x9x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=4mm
Reference Value = 8.739 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.220 W/kg
SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.045 W/kg
Maximum value of SAR (measured) = 0.154 W/kg



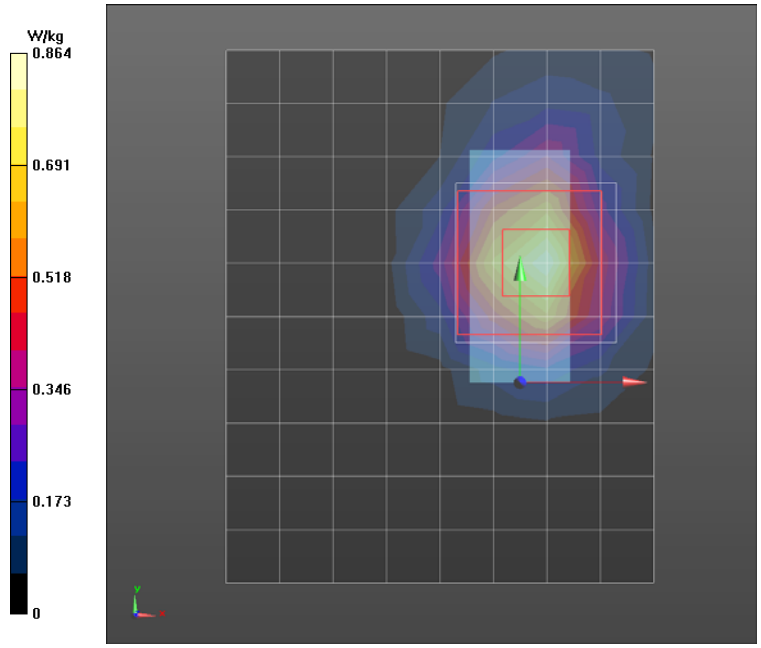
Plot 5

Date/Time: 11/18/2016 4:04:45 PM

Test Laboratory: Microsoft EMC
DUT: 1790; Type: USB Dongle; Serial: 40011393
Communication System: UID 0, CW (0); Frequency: 5220 MHz
Medium parameters used: f = 5220 MHz; σ = 5.511 S/m; ε_r = 47.545; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY Configuration:

- Probe: EX3DV4 - SN3939; ConvF(4.24, 4.24, 4.24); Calibrated: 5/20/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE4 Sn1383; Calibrated: 5/18/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1218
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7164)

Flat-Section MSL USB Port Powered/11/18/16 n mode Horizontal Up 5 mm 11 dBm Tune up 5220 MHz/Area Scan (81x101x1): Interpolated grid: dx=0.8000 mm, dy=0.8000 mm
Reference Value = 13.842 V/m; Power Drift = 0.03 dB
Fast SAR: SAR(1 g) = 0.458 W/kg; SAR(10 g) = 0.158 W/kg
Maximum value of SAR (interpolated) = 0.897 W/kg
Flat-Section MSL USB Port Powered/11/18/16 n mode Horizontal Up 5 mm 11 dBm Tune up 5220 MHz/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 13.842 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.56 W/kg
SAR(1 g) = 0.446 W/kg; SAR(10 g) = 0.150 W/kg
Maximum value of SAR (measured) = 0.864 W/kg



Plot 6

Date/Time: 11/18/2016 2:37:27 PM

Test Laboratory: Microsoft EMC
DUT: 1790; Type: USB Dongle; Serial: 40011393
Communication System: UID 0, CW (0); Frequency: 5805 MHz
Medium parameters used: f = 5805.05 MHz; σ = 6.216 S/m; ε_r = 46.986; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY Configuration:

- Probe: EX3DV4 - SN3939; ConvF(3.77, 3.77, 3.77); Calibrated: 5/20/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE4 Sn1383; Calibrated: 5/18/2016
- Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1218
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7164)

Flat-Section MSL USB Port Powered/11/18/16 n mode Vertical Up 5 mm 10.5 dBm Tune up 5805 MHz/Area Scan (81x101x1): Interpolated grid: dx=0.8000 mm, dy=0.8000 mm
Reference Value = 13.064 V/m; Power Drift = 0.00 dB
Fast SAR: SAR(1 g) = 0.396 W/kg; SAR(10 g) = 0.116 W/kg
Maximum value of SAR (interpolated) = 0.855 W/kg
Flat-Section MSL USB Port Powered/11/18/16 n mode Vertical Up 5 mm 10.5 dBm Tune up 5805 MHz/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 13.064 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 2.27 W/kg
SAR(1 g) = 0.389 W/kg; SAR(10 g) = 0.104 W/kg
Maximum value of SAR (measured) = 0.880 W/kg