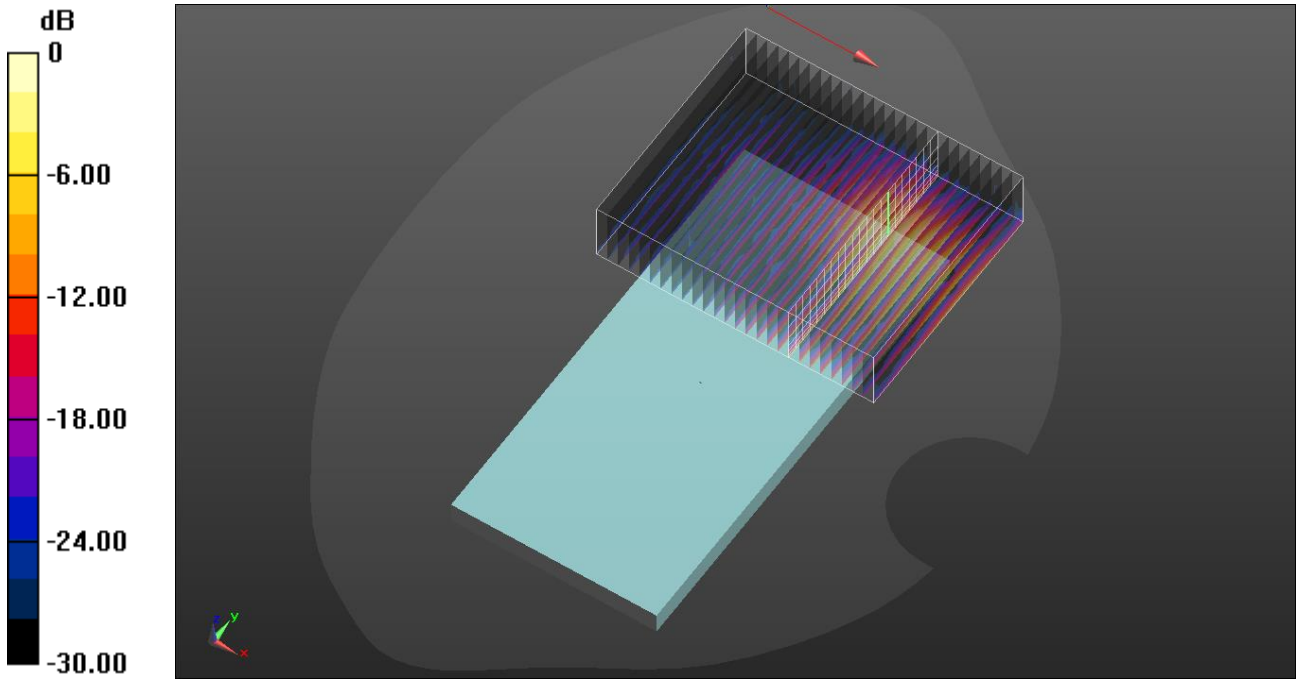
Wi-Fi 5.8 GHz

Frequency: 5745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used: f = 5745 MHz; σ = 5.165 S/m; ε_r = 36.105; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.012W/kg
- Electronics: DAE4 Sn1468; Calibrated: 2021-09-27
- Probe: EX3DV4 - SN7645; ConvF(5.41, 5.41, 5.41) @ 5745 MHz; Calibrated: 2021-04-15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Volume scan/802.11 a mode ch 149/Volume Scan (27x22x7): Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 12.70 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 2.55 W/kg
SAR(1 g) = 0.652 W/kg; SAR(10 g) = 0.224 W/kg
Total Absorbed Power = 0.00620 W
Maximum value of SAR (measured) = 1.48 W/kg

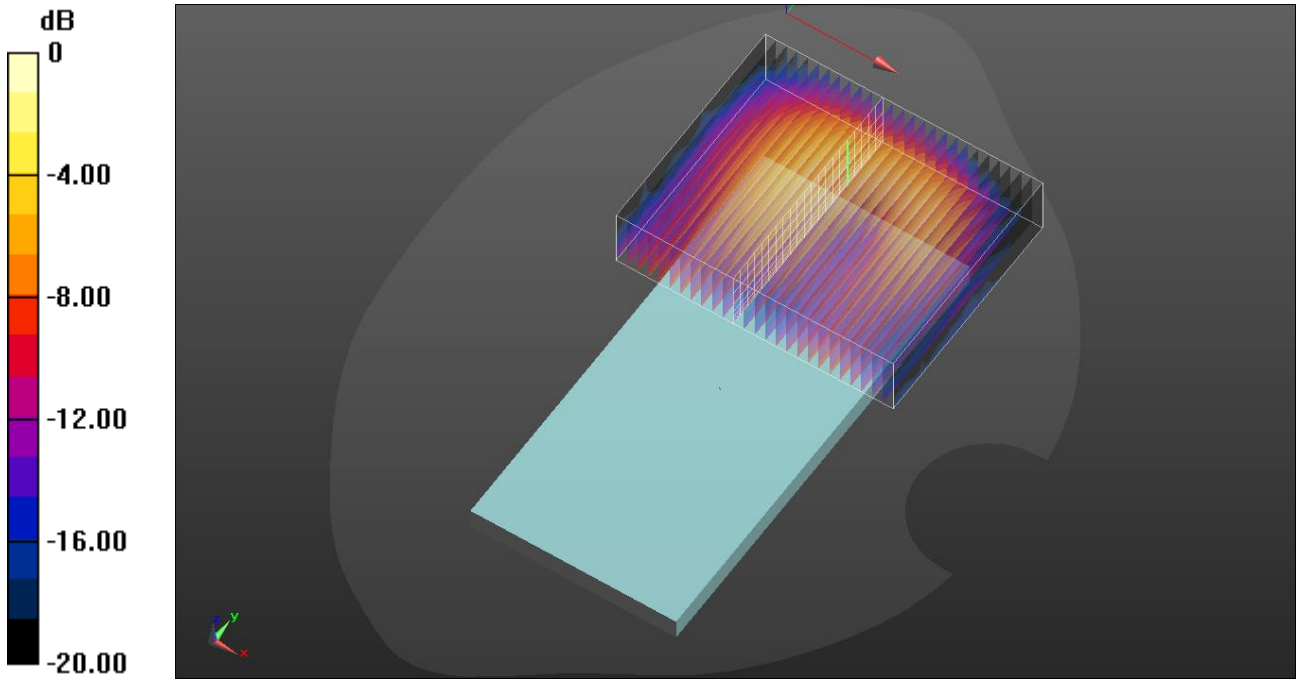


0 dB = 1.48 W/kg = 1.70 dBW/kg

Bluetooth

Frequency: 2441 MHz; Duty Cycle: 1:1.29033; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used (interpolated): f = 2441 MHz; σ = 1.817 S/m; ε_r = 38.059; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.012W/kg
- Electronics: DAE4 Sn1468; Calibrated: 2021-09-27
- Probe: EX3DV4 - SN7645; ConvF(8.26, 8.26, 8.26) @ 2441 MHz; Calibrated: 2021-04-15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Volume scan/Bluetooth_GFSK ch39/Volume Scan (27x22x7): Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 7.126 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.153 W/kg
SAR(1 g) = 0.086 W/kg; SAR(10 g) = 0.049 W/kg
Total Absorbed Power = 0.00332 W
Maximum value of SAR (measured) = 0.127 W/kg

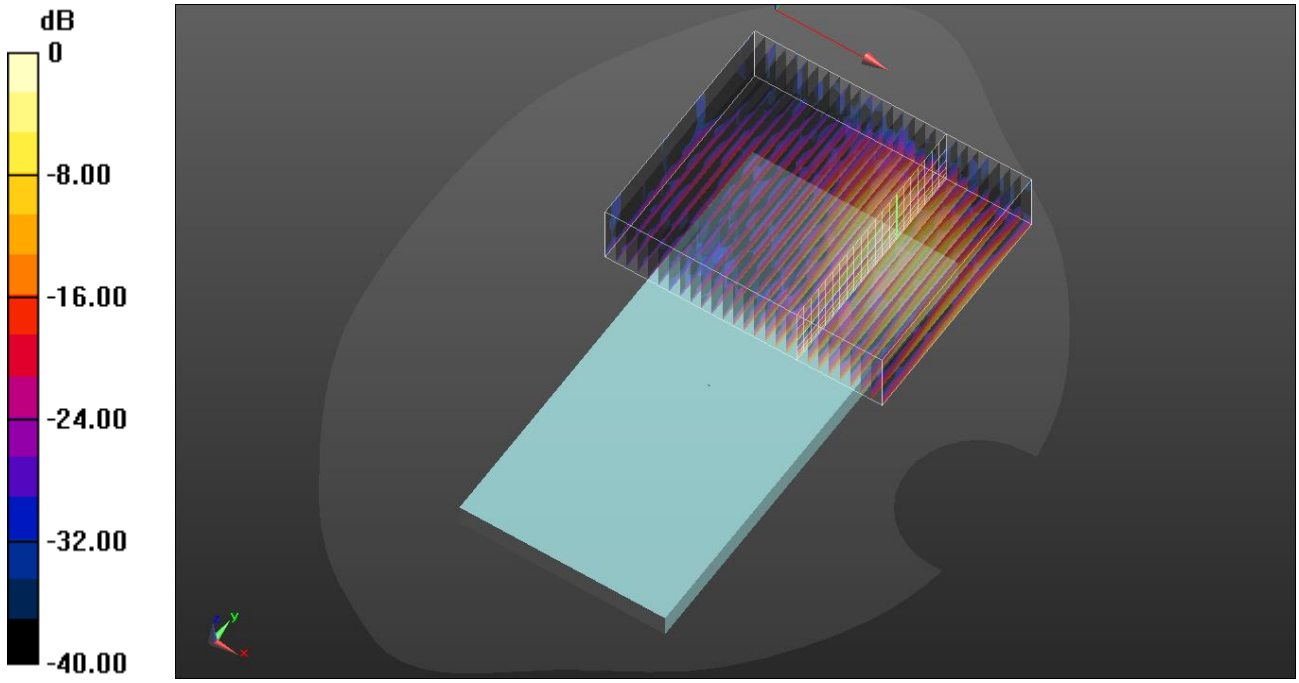


0 dB = 0.127 W/kg = −8.96 dBW/kg

Wi-Fi 5.8 GHz MIMO

Frequency: 5745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
Medium parameters used: f = 5745 MHz; σ = 5.165 S/m; ε_r = 36.105; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.012W/kg
- Electronics: DAE4 Sn1468; Calibrated: 2021-09-27
- Probe: EX3DV4 - SN7645; ConvF(5.41, 5.41, 5.41) @ 5745 MHz; Calibrated: 2021-04-15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855

Volume scan/802.11 a mode ch 165/Volume Scan (27x22x7): Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 12.90 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 3.04 W/kg
SAR(1 g) = 0.804 W/kg; SAR(10 g) = 0.297 W/kg
Total Absorbed Power = 0.00885 W
Maximum value of SAR (measured) = 1.80 W/kg



0 dB = 1.80 W/kg = 2.55 dBW/kg

Multi-Band Average SAR
Multi-Band Configurations:

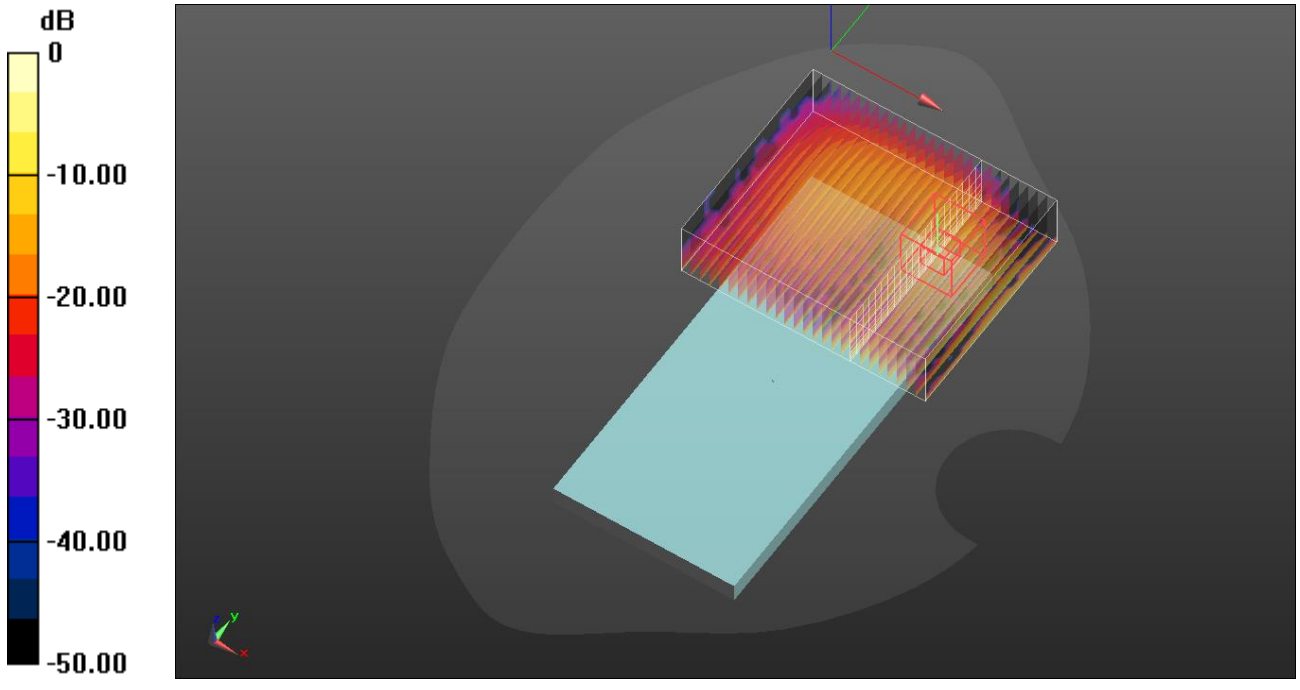
DASY Configuration for Volume scan/802.11 a mode ch 149 ant 1/Volume Scan:
Date/Time: 2021-11-01
Test Laboratory: UL Korea, Ltd. Suwon Laboratory
DUT: SM-N986B1
Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5745 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL 3-6GHz Medium parameters used: f = 5745 MHz; σ = 5.165 S/m; ε_r = 36.105; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7645; ConvF(5.41, 5.41, 5.41) @ 5745 MHz; Calibrated: 2021-04-15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1468; Calibrated: 2021-09-27
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

DASY Configuration for Volume scan/Bluetooth_GFSK ch39/Volume Scan:
Date/Time: 2021-11-01
Test Laboratory: UL Korea, Ltd. Suwon Laboratory
DUT: SM-N986B1
Communication System: UID 0, Bluetooth (DH5) (0); Frequency: 2441 MHz; Duty Cycle: 1:1.29033; PMF: 1
Medium: HSL 3-6GHz Medium parameters used (interpolated): f = 2441 MHz; σ = 1.817 S/m; ε_r = 38.059; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7645; ConvF(8.26, 8.26, 8.26) @ 2441 MHz; Calibrated: 2021-04-15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1468; Calibrated: 2021-09-27
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

Multi Band Result:
SAR(1 g) = 0.947 W/kg; SAR(10 g) = 0.337 W/kg
Maximum value of SAR (interpolated) = 3.26 W/kg



0 dB = 3.26 W/kg = 5.13 dBW/kg

Multi-Band Average SAR
Multi-Band Configurations:

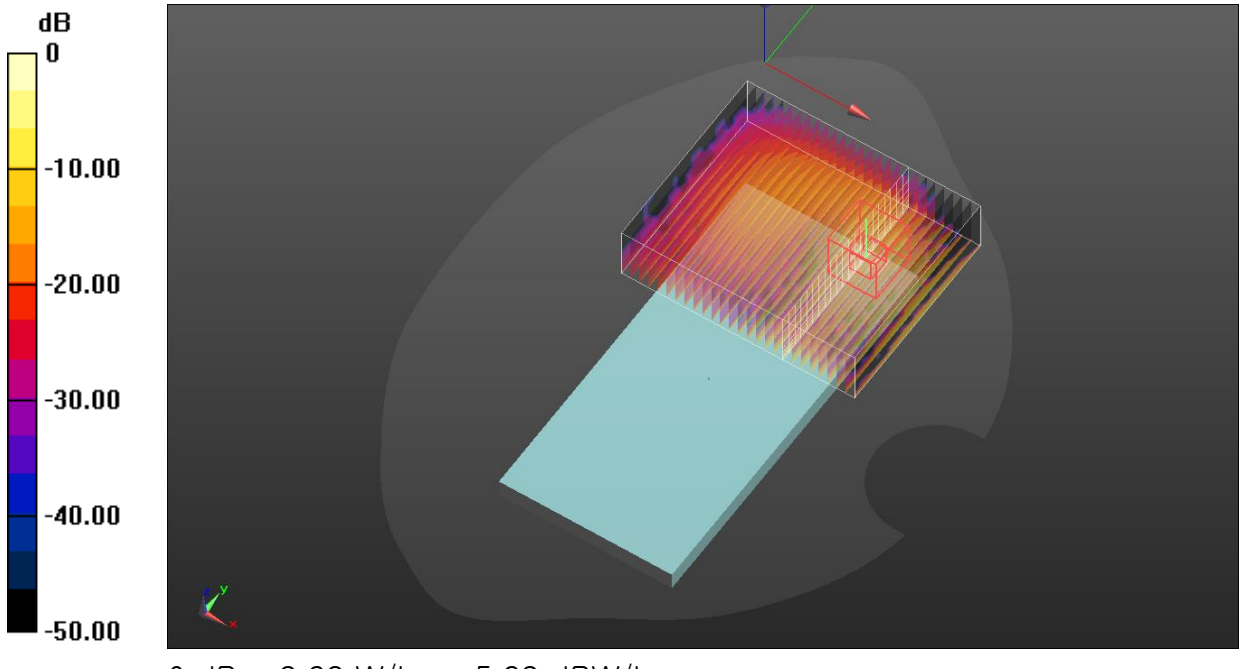
DASY Configuration for Volume scan/Bluetooth_GFSK ch39/Volume Scan:
Date/Time: 2021-11-01
Test Laboratory: UL Korea, Ltd. Suwon Laboratory
DUT: SM-N986B1
Communication System: UID 0, Bluetooth (DH5) (0); Frequency: 2441 MHz; Duty Cycle: 1:1.29033; PMF: 1
Medium: HSL 3-6GHz Medium parameters used (interpolated): f = 2441 MHz; σ = 1.817 S/m; εr = 38.059; ρ = 1000 kg/m3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7645; ConvF(8.26, 8.26, 8.26) @ 2441 MHz; Calibrated: 2021-04-15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1468; Calibrated: 2021-09-27
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

DASY Configuration for Volume scan/802.11 a mode ch 165 MIMO/Volume Scan:
Date/Time: 2021-11-01
Test Laboratory: UL Korea, Ltd. Suwon Laboratory
DUT: SM-N986B1
Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5745 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL 3-6GHz Medium parameters used: f = 5745 MHz; σ = 5.165 S/m; εr = 36.105; ρ = 1000 kg/m3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7645; ConvF(5.41, 5.41, 5.41) @ 5745 MHz; Calibrated: 2021-04-15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1468; Calibrated: 2021-09-27
- Phantom: Twin-SAM V5.0 (Right); Type: QD 000 P40 CD; Serial: 1855
- Measurement SW: DASY52, Version 52.10 (3)

Multi Band Result:
SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.437 W/kg
Maximum value of SAR (interpolated) = 3.92 W/kg



0 dB = 3.92 W/kg = 5.93 dBW/kg