

NR Band n77 SRS 2 (Sub Ant.3)

Frequency: 3500.01 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C
 Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.915$ S/m; $\epsilon_r = 38.551$; $\rho = 1000$ kg/m³

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 Sn1447; Calibrated: 2022-03-25
- Probe: EX3DV4 - SN7645; ConvF(7.18, 7.18, 7.18) @ 3500.01 MHz; Calibrated: 2022-04-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1195

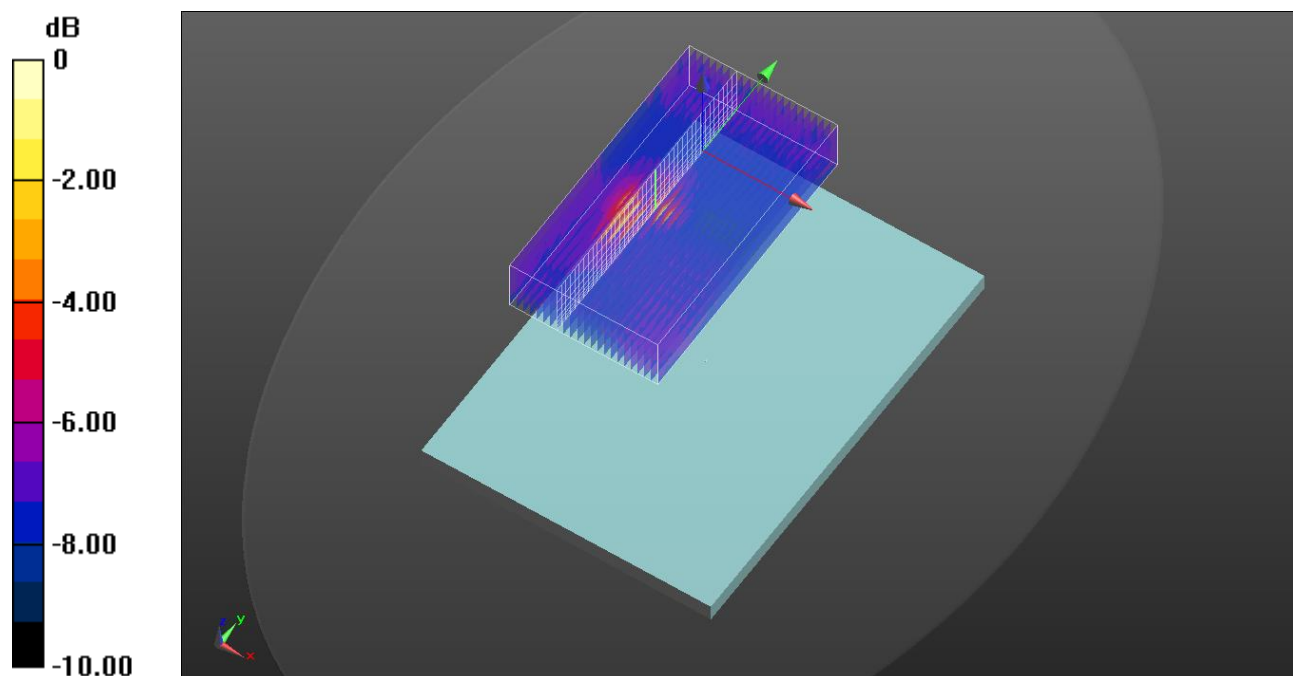
Volume scan/CW ch.633334/Volume Scan (41x23x8): Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 5.872 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.820 W/kg

SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.106 W/kg

Maximum value of SAR (measured) = 0.364 W/kg



0 dB = 0.364 W/kg = -4.39 dBW/kg

UNII MIMO

Frequency: 5690 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.0°C

Medium parameters used: $f = 5690$ MHz; $\sigma = 5.29$ S/m; $\epsilon_r = 34.111$; $\rho = 1000$ kg/m³

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 Sn1447; Calibrated: 2022-03-25
- Probe: EX3DV4 - SN7646; ConvF(5.25, 5.25, 5.25) @ 5690 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1195

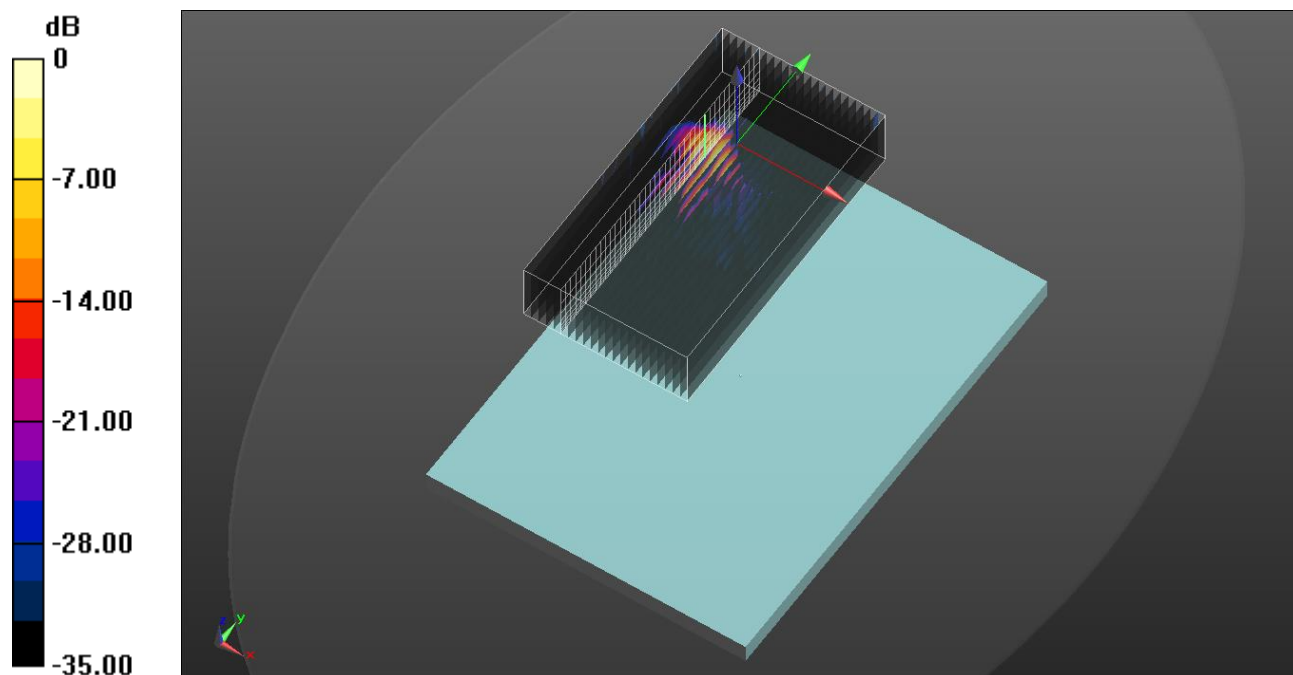
Volume scan/802.11 ac mode ch.138 MIMO/Volume Scan (41x23x8): Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 20.11 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 4.91 W/kg

SAR(1 g) = 0.997 W/kg; SAR(10 g) = 0.197 W/kg

Maximum value of SAR (measured) = 2.98 W/kg



0 dB = 2.98 W/kg = 4.74 dBW/kg

Bluetooth Ant.1

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; $\sigma = 1.851$ S/m; $\epsilon_r = 38.341$; $\rho = 1000$ kg/m³

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 Sn1447; Calibrated: 2022-03-25
- Probe: EX3DV4 - SN7646; ConvF(8.34, 8.34, 8.34) @ 2441 MHz; Calibrated: 2022-03-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1195

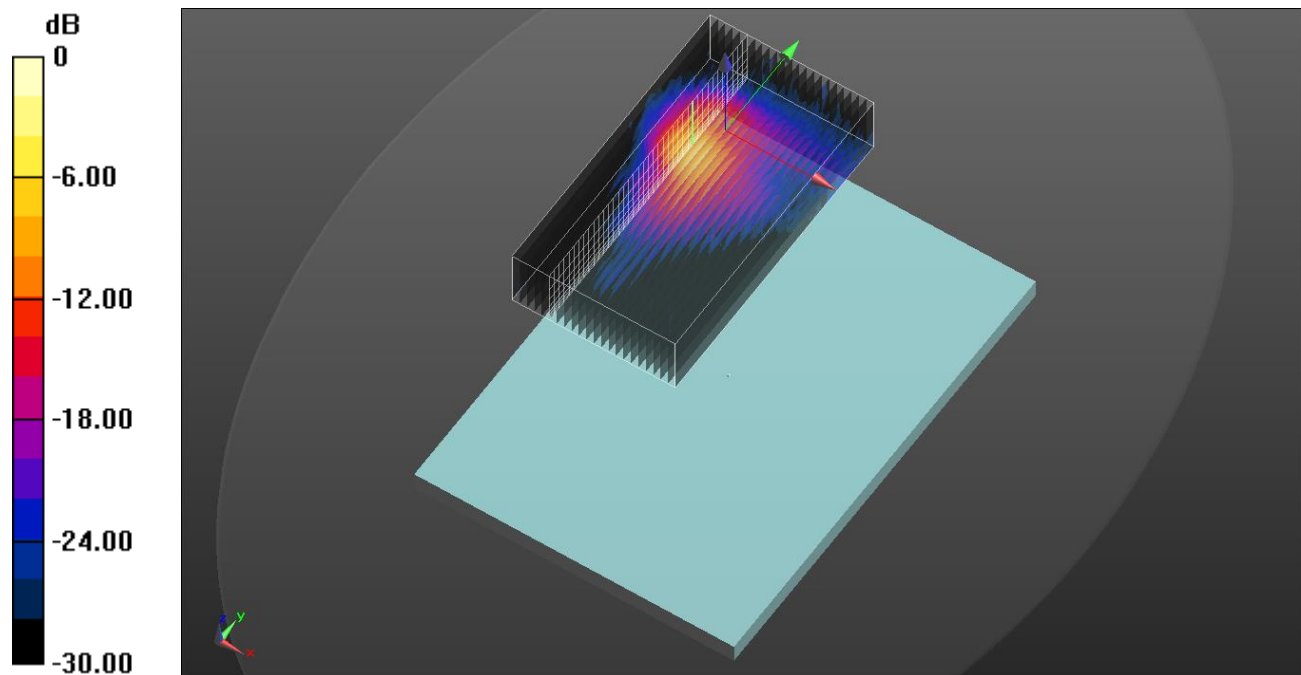
Volume scan/EDR ch.39 SISO Ant.1/Volume Scan (41x23x8): Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 13.75 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.091 W/kg

Maximum value of SAR (measured) = 0.558 W/kg



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

Multi-Band Average SAR

Multi-Band Configurations:

DASY Configuration for Volume scan/Bluetooth EDR ch.39 SISO Ant 1/Volume Scan:

Date/Time: 8/2/2022, Test Laboratory: UL Korea, Ltd. Suwon Laboratory

Communication System: UID 0, Bluetooth (DH5) (0); Frequency: 2441 MHz; Duty Cycle: 1:1.29033; PMF: 1

Medium: HSL 2.4GHz Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.851$ S/m; $\epsilon_r = 38.341$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7646; ConvF(8.34, 8.34, 8.34) @ 2441 MHz; Calibrated: 3/29/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1447; Calibrated: 3/25/2022
- Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1195
- Measurement SW: DASY52, Version 52.10 (4)

DASY Configuration for Volume scan/WWAN CW ch.633334/Volume Scan:

Date/Time: 8/2/2022, Test Laboratory: UL Korea, Ltd. Suwon Laboratory

Communication System: UID 0, NR(TDD) (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1; PMF: 1.12202e-005

Medium: HSL3500MHZ Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.915$ S/m; $\epsilon_r = 38.551$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7645; ConvF(7.18, 7.18, 7.18) @ 3500.01 MHz; Calibrated: 4/29/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1447; Calibrated: 3/25/2022
- Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1195
- Measurement SW: DASY52, Version 52.10 (4)

DASY Configuration for Volume scan/UNII 802.11ac mode ch.138 MIMO/Volume Scan:

Date/Time: 8/2/2022, Test Laboratory: UL Korea, Ltd. Suwon Laboratory

Communication System: UID 0, IEEE 802.11 a/n/ac 5 GHz Band (0); Frequency: 5690 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL5GHz Medium parameters used: $f = 5690$ MHz; $\sigma = 5.29$ S/m; $\epsilon_r = 34.111$; $\rho = 1000$ kg/m³

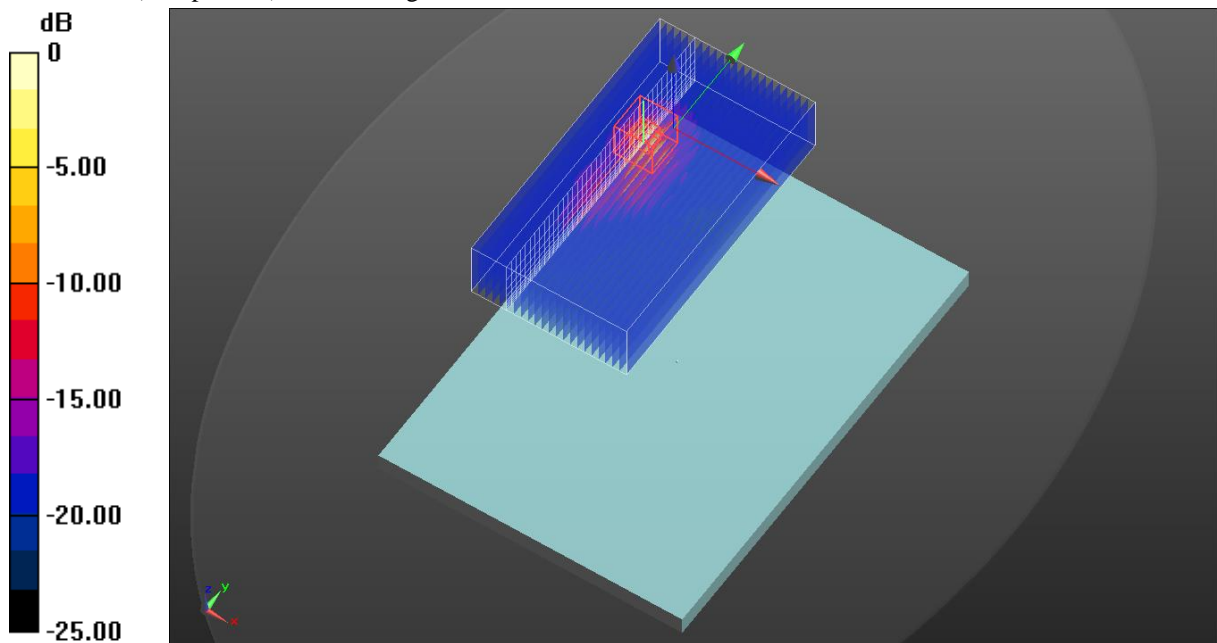
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7646; ConvF(5.25, 5.25, 5.25) @ 5690 MHz; Calibrated: 3/29/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1447; Calibrated: 3/25/2022
- Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1195
- Measurement SW: DASY52, Version 52.10 (4)

Multi Band Result:

SAR(1 g) = 1.57 W/kg; SAR(10 g) = 0.436 W/kg

Maximum value of SAR (interpolated) = 7.02 W/kg



0 dB = 7.02 W/kg = 8.46 dBW/kg

Multi-Band Average SAR

Multi-Band Configurations:

DASY Configuration for Volume scan/WWAN CW ch.633334/Volume Scan:

Date/Time: 8/2/2022 , Test Laboratory: UL Korea, Ltd. Suwon Laboratory

Communication System: UID 0, NR(TDD) (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1; PMF: 1.12202e-005

Medium: HSL3500MHZ Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.915$ S/m; $\epsilon_r = 38.551$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7645; ConvF(7.18, 7.18, 7.18) @ 3500.01 MHz; Calibrated: 4/29/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1447; Calibrated: 3/25/2022
- Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1195
- Measurement SW: DASY52, Version 52.10 (4)

DASY Configuration for Volume scan/ UNII 802.11ac mode ch.138 MIMO /Volume Scan:

Date/Time: 8/2/2022, Test Laboratory: UL Korea, Ltd. Suwon Laboratory

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5690 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL5GHz Medium parameters used: $f = 5690$ MHz; $\sigma = 5.29$ S/m; $\epsilon_r = 34.111$; $\rho = 1000$ kg/m³

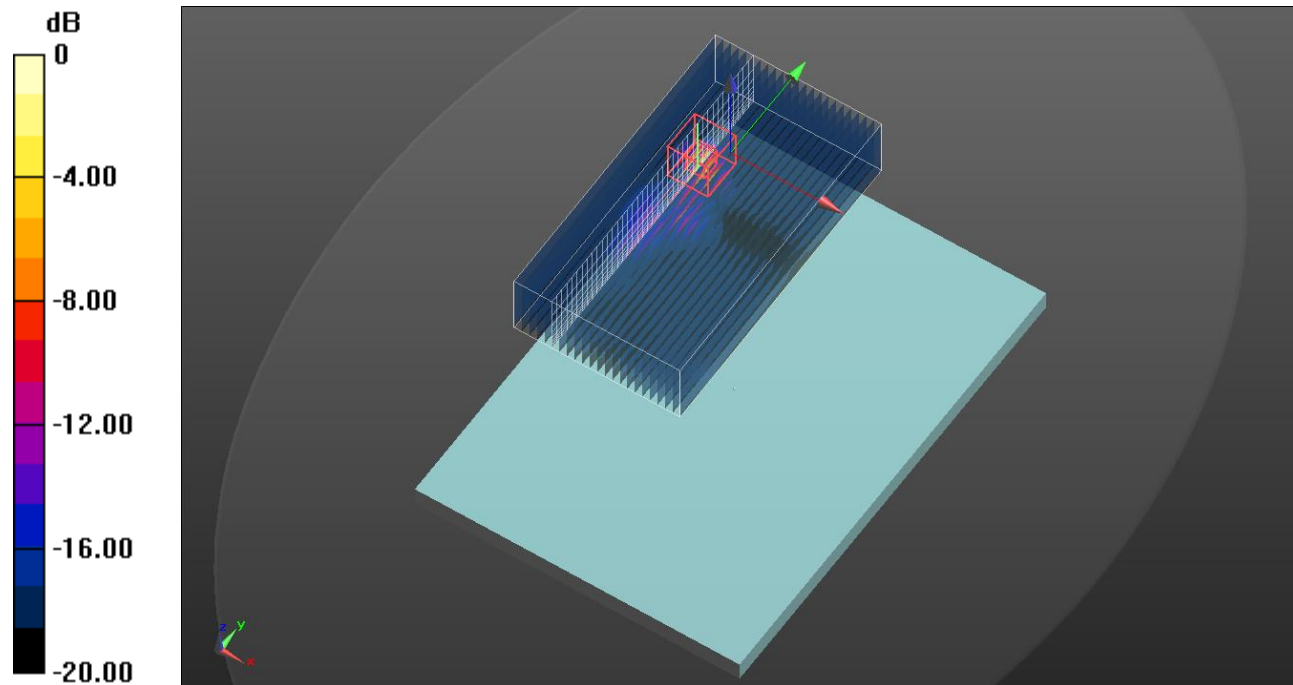
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7646; ConvF(5.25, 5.25, 5.25) @ 5690 MHz; Calibrated: 3/29/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1447; Calibrated: 3/25/2022
- Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1195
- Measurement SW: DASY52, Version 52.10 (4)

Multi Band Result:

SAR(1 g) = 1.2 W/kg; SAR(10 g) = 0.303 W/kg

Maximum value of SAR (interpolated) = 5.38 W/kg



0 dB = 5.38 W/kg = 7.31 dBW/kg