

**Plot 1#:FM 12.5kHz\_435MH\_Face Up****DUT: Digital Portable Radio; Type: UDR-400; Serial: CR22050060-SA-S1**

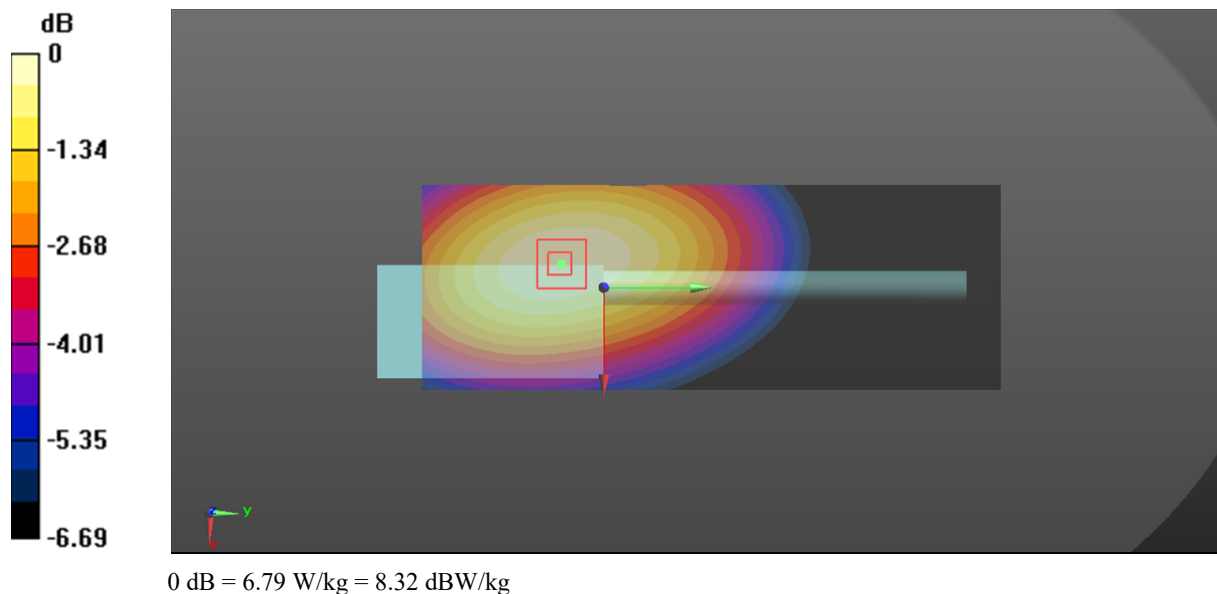
Communication System: FM; Frequency: 435 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 435 \text{ MHz}$ ;  $\sigma = 0.872 \text{ S/m}$ ;  $\epsilon_r = 43.485$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 435 MHz; Calibrated: 2021/12/13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: ELI v8.0; Type: QDOVA002AA; Serial: TP:2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Area Scan (61x171x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) =  $6.86 \text{ W/kg}$ **Zoom Scan (5x5x4)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $84.29 \text{ V/m}$ ; Power Drift =  $-0.14 \text{ dB}$ Peak SAR (extrapolated) =  $8.27 \text{ W/kg}$ **SAR(1 g) =  $6.47 \text{ W/kg}$ ; SAR(10 g) =  $5 \text{ W/kg}$** Maximum value of SAR (measured) =  $6.79 \text{ W/kg}$ 

**Plot 2#: 4FSK\_435MHz\_Face Up****DUT: Digital Portable Radio; Type: UDR-400; Serial: CR22050060-SA-S1**

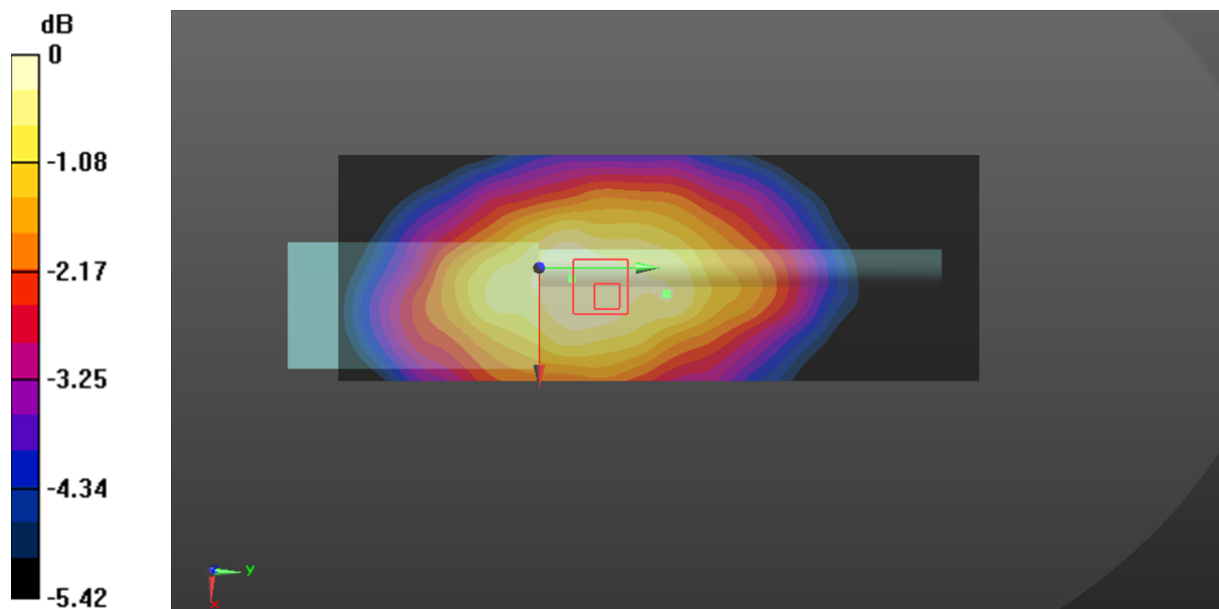
Communication System: 4FSK; Frequency: 435 MHz; Duty Cycle: 1:2

Medium parameters used (interpolated):  $f = 435 \text{ MHz}$ ;  $\sigma = 0.872 \text{ S/m}$ ;  $\epsilon_r = 43.485$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 435 MHz; Calibrated: 2021/12/13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: ELI v8.0; Type: QDOVA002AA; Serial: TP:2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Area Scan (61x171x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) =  $4.50 \text{ W/kg}$ **Zoom Scan (6x6x4)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $68.75 \text{ V/m}$ ; Power Drift =  $-0.13 \text{ dB}$ Peak SAR (extrapolated) =  $5.47 \text{ W/kg}$ **SAR(1 g) =  $4.18 \text{ W/kg}$ ; SAR(10 g) =  $3.33 \text{ W/kg}$** Maximum value of SAR (measured) =  $4.37 \text{ W/kg}$ 0 dB =  $4.37 \text{ W/kg}$  =  $6.40 \text{ dBW/kg}$

**Plot 3#: FM 12.5kHz\_400.0125MHz\_Body Back****DUT: Digital Portable Radio; Type: UDR-400; Serial: CR22050060-SA-S1**

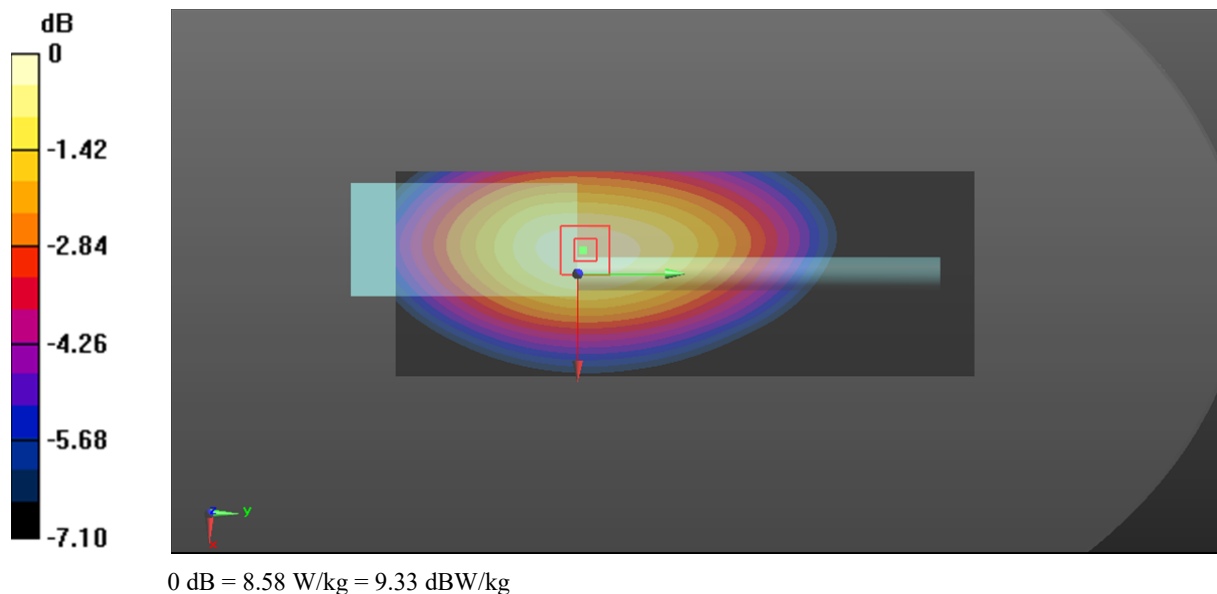
Communication System: FM; Frequency: 400.012 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 400.012 \text{ MHz}$ ;  $\sigma = 0.854 \text{ S/m}$ ;  $\epsilon_r = 44.652$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 400.012 MHz; Calibrated: 2021/12/13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: ELI v8.0; Type: QDOVA002AA; Serial: TP:2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Area Scan (61x171x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) =  $8.30 \text{ W/kg}$ **Zoom Scan (5x5x4)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $94.47 \text{ V/m}$ ; Power Drift =  $0.01 \text{ dB}$ Peak SAR (extrapolated) =  $10.7 \text{ W/kg}$ **SAR(1 g) =  $8.16 \text{ W/kg}$ ; SAR(10 g) =  $6.16 \text{ W/kg}$** Maximum value of SAR (measured) =  $8.58 \text{ W/kg}$ 

**Plot 4#: FM 12.5kHz\_417.5125MHz\_Body Back****DUT: Digital Portable Radio; Type: UDR-400; Serial: CR22050060-SA-S1**

Communication System: FM; Frequency: 417.512 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 417.512$  MHz;  $\sigma = 0.863$  S/m;  $\epsilon_r = 43.852$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 417.512 MHz; Calibrated: 2021/12/13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: ELI v8.0; Type: QDOVA002AA; Serial: TP:2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Area Scan (61x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 11.4 W/kg

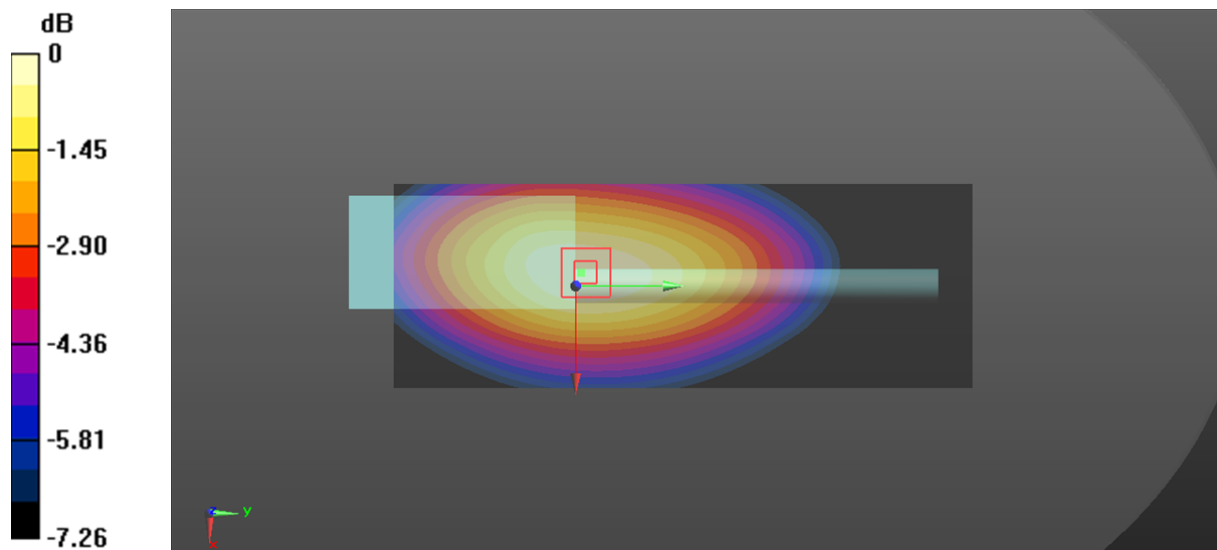
**Zoom Scan (5x5x4)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 114.5 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 14.3 W/kg

**SAR(1 g) = 10.6 W/kg; SAR(10 g) = 8.14 W/kg**

Maximum value of SAR (measured) = 11.4 W/kg



0 dB = 11.4 W/kg = 10.57 dBW/kg

**Plot 5#: FM 12.5kHz\_435MHz\_Body Back****DUT: Digital Portable Radio; Type: UDR-400; Serial: CR22050060-SA-S1**

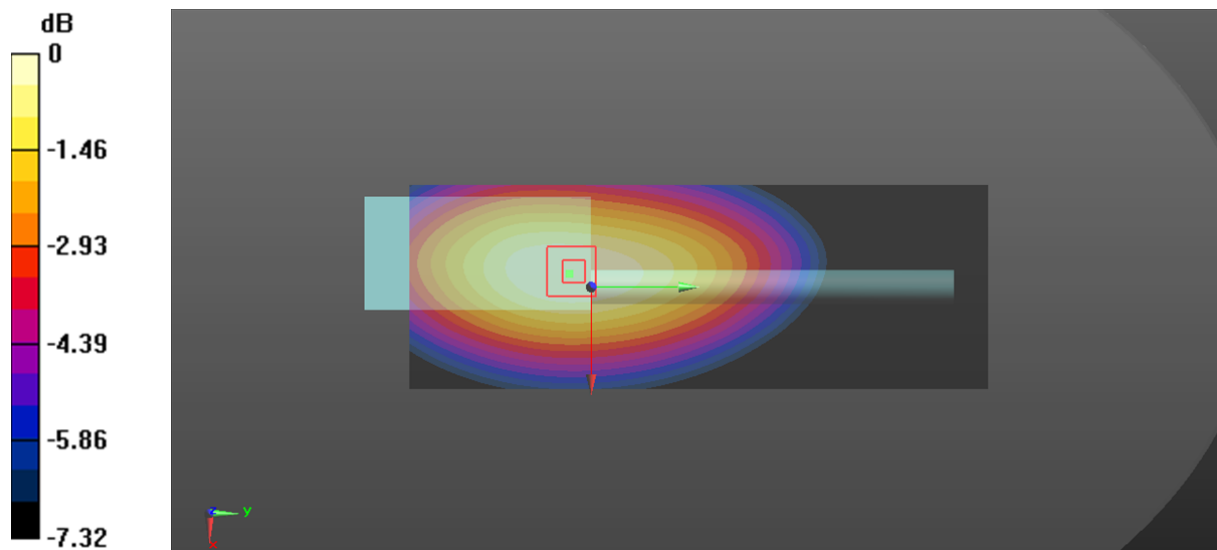
Communication System: FM; Frequency: 435 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 435 \text{ MHz}$ ;  $\sigma = 0.872 \text{ S/m}$ ;  $\epsilon_r = 43.485$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 435 MHz; Calibrated: 2021/12/13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: ELI v8.0; Type: QDOVA002AA; Serial: TP:2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Area Scan (61x171x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) =  $12.1 \text{ W/kg}$ **Zoom Scan (5x5x4)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $117.8 \text{ V/m}$ ; Power Drift =  $-0.20 \text{ dB}$ Peak SAR (extrapolated) =  $15.1 \text{ W/kg}$ **SAR(1 g) =  $11.4 \text{ W/kg}$ ; SAR(10 g) =  $8.56 \text{ W/kg}$** Maximum value of SAR (measured) =  $12.0 \text{ W/kg}$ 0 dB =  $12.0 \text{ W/kg} = 10.79 \text{ dBW/kg}$

**Plot 6#: FM 12.5kHz\_452.4875MHz\_Body Back****DUT: Digital Portable Radio; Type: UDR-400; Serial: CR22050060-SA-S1**

Communication System: FM; Frequency: 452.488 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 452.488$  MHz;  $\sigma = 0.884$  S/m;  $\epsilon_r = 42.654$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 452.488 MHz; Calibrated: 2021/12/13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: ELI v8.0; Type: QDOVA002AA; Serial: TP:2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Area Scan (61x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 9.76 W/kg

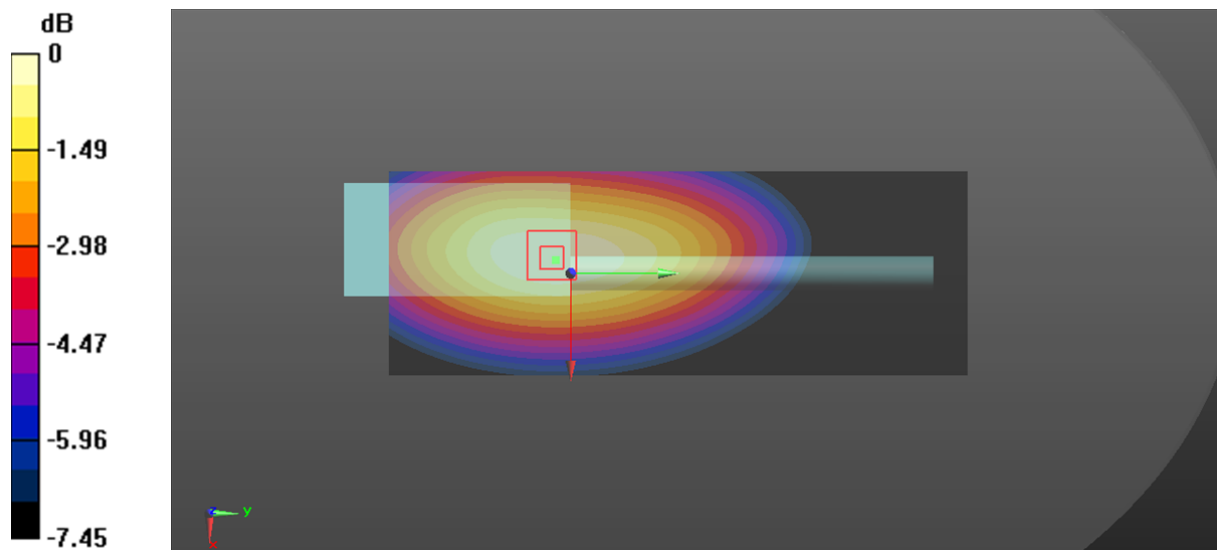
**Zoom Scan (5x5x4)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 103.0 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 12.5 W/kg

**SAR(1 g) = 9.4 W/kg; SAR(10 g) = 7.01 W/kg**

Maximum value of SAR (measured) = 9.88 W/kg



0 dB = 9.88 W/kg = 9.95 dBW/kg

**Plot 7#: FM 12.5kHz\_469.9875MHz\_Body Back****DUT: Digital Portable Radio; Type: UDR-400; Serial: CR22050060-SA-S1**

Communication System: FM; Frequency: 469.988 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 469.988$  MHz;  $\sigma = 0.889$  S/m;  $\epsilon_r = 42.215$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 469.988 MHz; Calibrated: 2021/12/13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: ELI v8.0; Type: QDOVA002AA; Serial: TP:2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Area Scan (61x171x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 8.90 W/kg

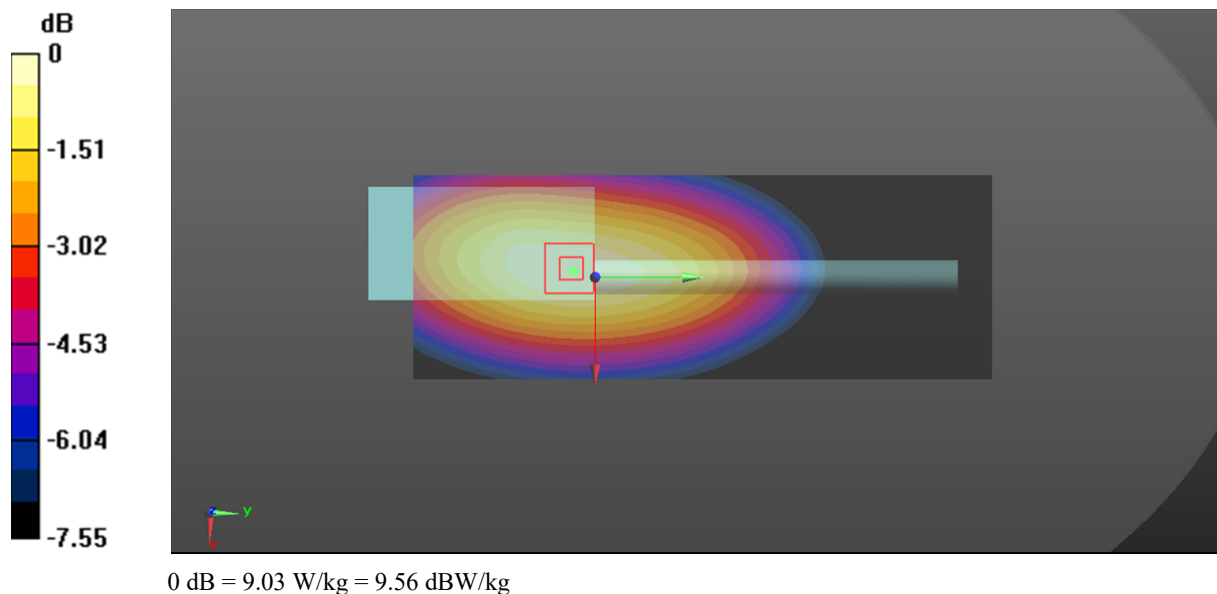
**Zoom Scan (5x5x4)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 99.40 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 11.4 W/kg

**SAR(1 g) = 8.57 W/kg; SAR(10 g) = 6.36 W/kg**

Maximum value of SAR (measured) = 9.03 W/kg



**Plot 8#: 4FSK\_435MHz\_Body Back****DUT: Digital Portable Radio; Type: UDR-400; Serial: CR22050060-SA-S1**

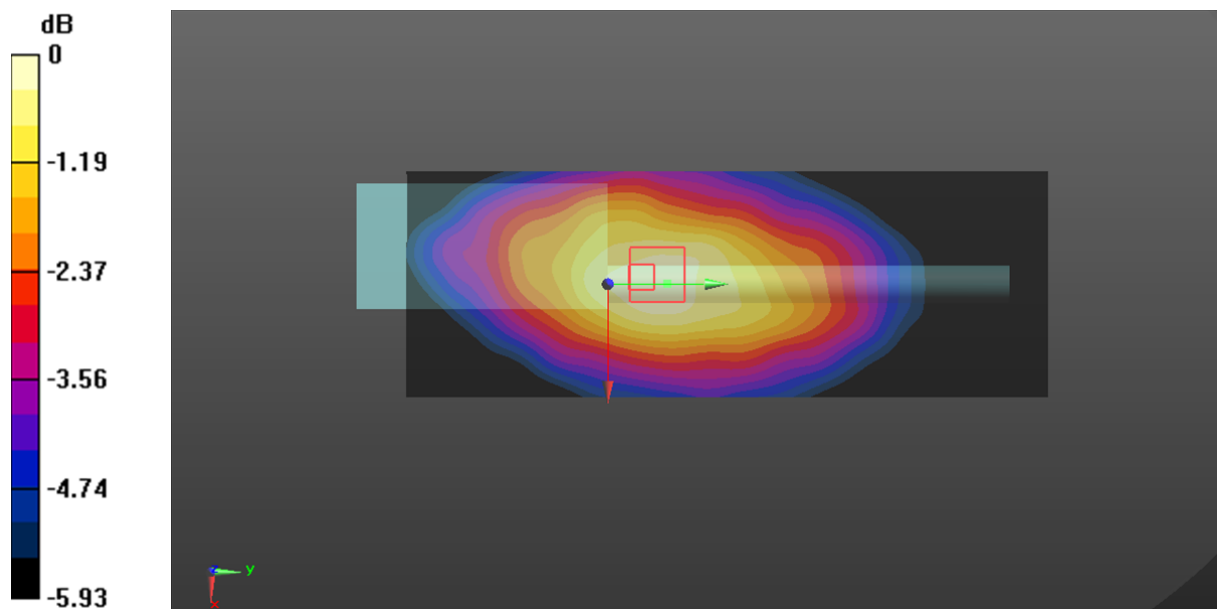
Communication System: 4FSK; Frequency: 435 MHz; Duty Cycle: 1:2

Medium parameters used (interpolated):  $f = 435 \text{ MHz}$ ;  $\sigma = 0.872 \text{ S/m}$ ;  $\epsilon_r = 43.485$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 435 MHz; Calibrated: 2021/12/13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: ELI v8.0; Type: QDOVA002AA; Serial: TP:2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Area Scan (61x171x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) =  $7.28 \text{ W/kg}$ **Zoom Scan (5x5x4)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $84.45 \text{ V/m}$ ; Power Drift =  $-0.19 \text{ dB}$ Peak SAR (extrapolated) =  $9.15 \text{ W/kg}$ **SAR(1 g) =  $6.81 \text{ W/kg}$ ; SAR(10 g) =  $5.17 \text{ W/kg}$** Maximum value of SAR (measured) =  $7.15 \text{ W/kg}$ 0 dB =  $7.15 \text{ W/kg}$  =  $8.54 \text{ dBW/kg}$