

# APPENDIX 1

## SAR Measurement Data

Contents

EXHIBIT 1. BODY 900 MHZ SAR MEASUREMENTS ..... 3

*Body 900 MHz SAR Measurement Summary*..... 3

**EXHIBIT 1. BODY 900 MHZ SAR MEASUREMENTS***Body 900 MHz SAR Measurement Summary*

| Antenna                 | Power  | CH. Freq | Body SAR1g | Body SAR10g | Power Drift |
|-------------------------|--------|----------|------------|-------------|-------------|
|                         | (mW)   | (MHz)    | (W/Kg)     | (W/Kg)      | (dB)        |
| 900 MHz, RP-SMA<br>male | 889.20 | 902.40   | 7.30       | 4.57        | 0.58        |
|                         | 887.16 | 914.63   | 8.01       | 4.89        | 0.51        |
|                         | 889.20 | 927.65   | 7.48       | 4.57        | -0.18       |

File Name: [FORT-001Q 902.4 MHz BODY \(Handheld E-Stop\).da52:0](#)

DUT: Wireless Emergency Stop; Type: Wireless Remote Control; Serial: **Not Specified**

Communication System: UID 0, CW (0); Frequency: 902.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 902.4$  MHz;  $\sigma = 0.998$  S/m;  $\epsilon_r = 54.195$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV4 - SN3673; ConvF(9.13, 9.13, 9.13); Calibrated: 8/30/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/25/2022
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**FORT-001Q Body (WES)/Touch, d=0mm/Area Scan (61x191x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 10.9 W/kg

**FORT-001Q Body (WES)/Touch, d=0mm/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

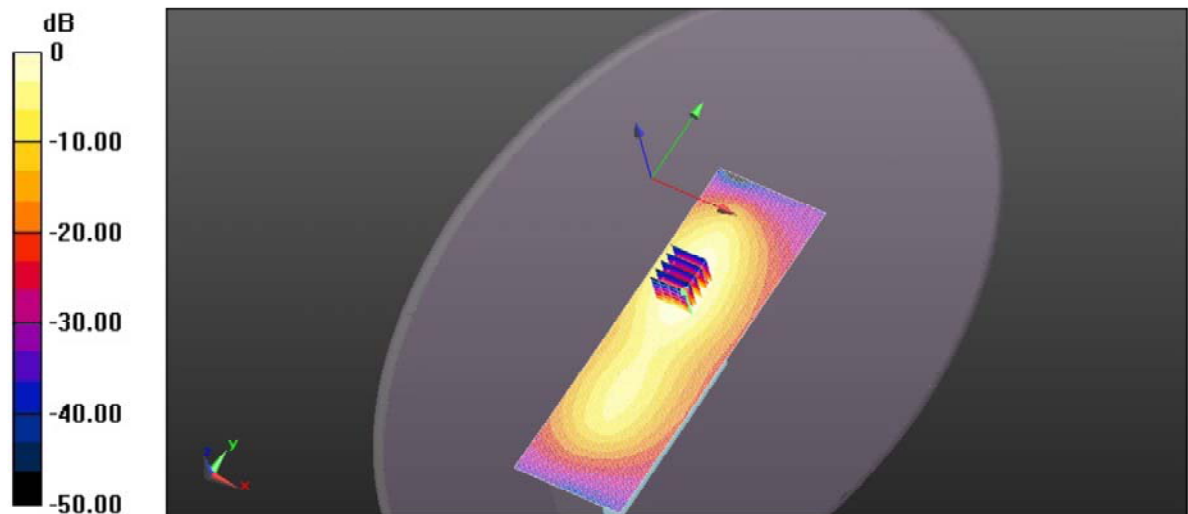
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 1.705 V/m; Power Drift = 0.58 dB

Peak SAR (extrapolated) = 12.5 W/kg

**SAR(1 g) = 7.3 W/kg; SAR(10 g) = 4.57 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 10.3 W/kg



0 dB = 10.9 W/kg = 10.37 dBW/kg

File Name: [FORT-001Q 914.625 MHz BODY \(Handheld E-Stop\).da52:0](#)

DUT: Wireless Emergency Stop; Type: Wireless Remote Control; Serial: **Not Specified**

Communication System: UID 0, CW (0); Frequency: 914.625 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 915$  MHz;  $\sigma = 1.04$  S/m;  $\epsilon_r = 54.42$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV4 - SN3673; ConvF(9.13, 9.13, 9.13); Calibrated: 8/30/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/25/2022
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**FORT-001Q Body (WES)/Touch, d=0mm/Area Scan (61x191x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 11.7 W/kg

**FORT-001Q Body (WES)/Touch, d=0mm/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

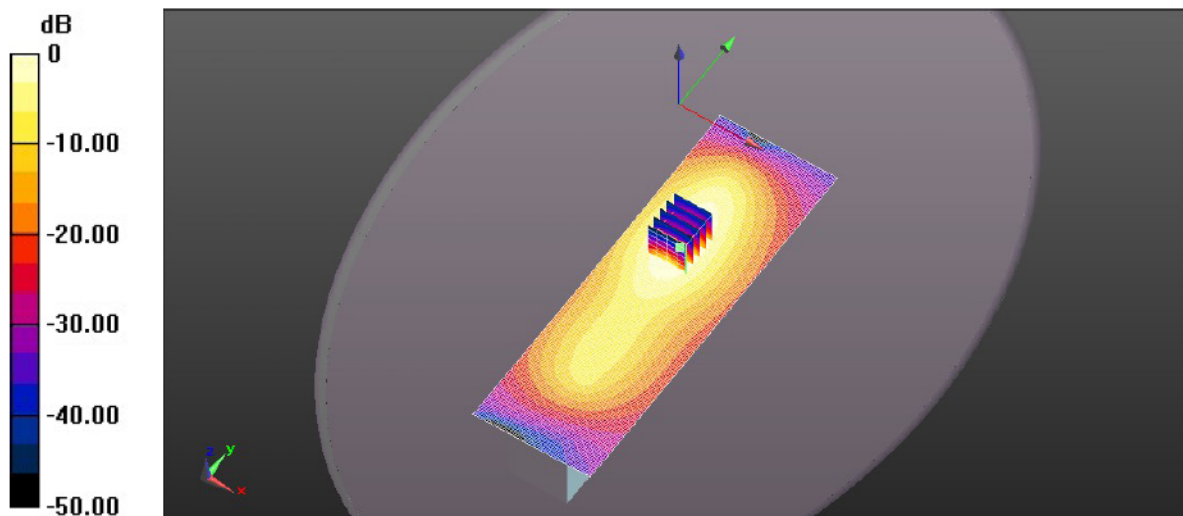
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 1.777 V/m; Power Drift = 0.51 dB

Peak SAR (extrapolated) = 14.9 W/kg

**SAR(1 g) = 8.01 W/kg; SAR(10 g) = 4.89 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 12.2 W/kg



0 dB = 11.7 W/kg = 10.69 dBW/kg

File Name: [FORT-001Q 927.65 MHz BODY \(Handheld E-Stop\).da52:0](#)

DUT: Wireless Emergency Stop; Type: Wireless Remote Control; Serial: **Not Specified**

Communication System: UID 0, CW (0); Frequency: 927.65 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 927.65$  MHz;  $\sigma = 1.051$  S/m;  $\epsilon_r = 54.225$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV4 - SN3673; ConvF(9.13, 9.13, 9.13); Calibrated: 8/30/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/25/2022
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**FORT-001Q Body (WES)/Touch, d=0mm/Area Scan (61x191x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 11.0 W/kg

**FORT-001Q Body (WES)/Touch, d=0mm/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

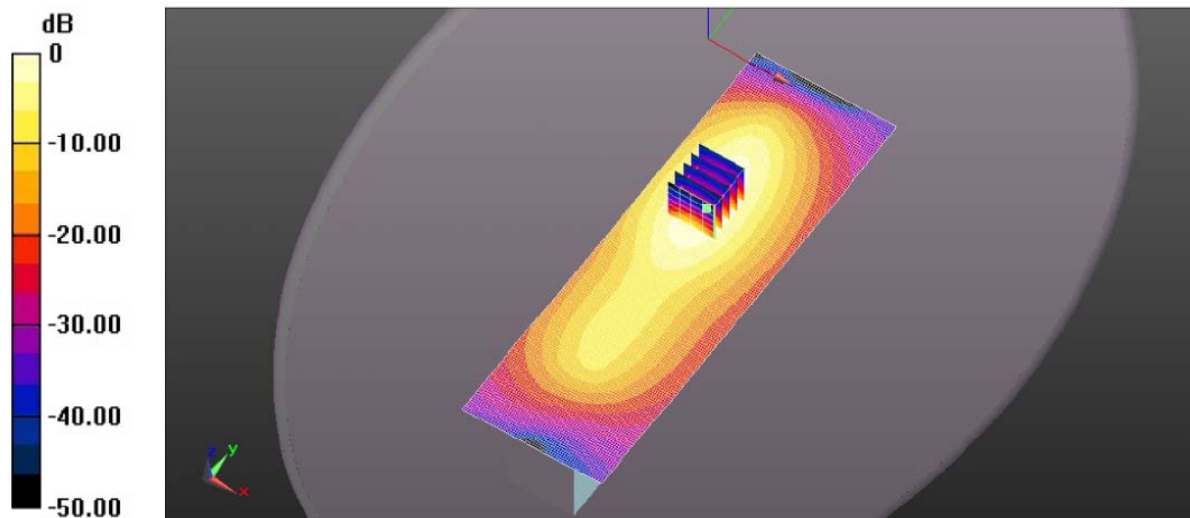
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 1.349 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 13.5 W/kg

**SAR(1 g) = 7.48 W/kg; SAR(10 g) = 4.57 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 11.1 W/kg



0 dB = 11.0 W/kg = 10.41 dBW/kg