

### **General calibration information**

Date	2022.12.15
Test Laboratory	ShenZhen Morlab Communications Technology Co., Ltd.
Antenna serial No.	D5250V2-SN: 1176

### Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.068Ω +1.05jΩ
Return Loss	-32.818dB

### **General Antenna Parameters and Design**

	Electrical Delay (one direction)	1.276 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feed point can be measured



Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd.

Date: 2022.12.15

System Check\_5250MHz\_Head

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1 Medium: HSL\_5250 Medium parameters used: f = 5250 MHz;  $\sigma = 4.714$  S/m;  $\epsilon_r = 36.322$ ;  $\rho = 1000$ kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.4 °C

#### DASY5 Configuration:

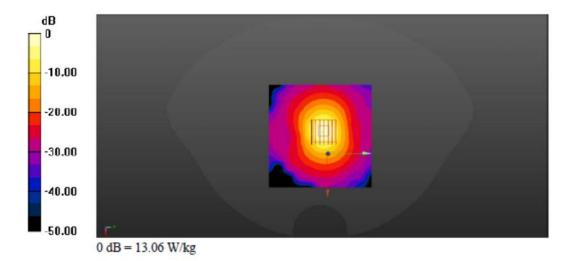
- Probe: EX3DV4 - SN7608; ConvF(5.16, 5.16, 5.16) @ 5250 MHz; Calibrated: 2022.01.12

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1643; Calibrated: 2021.12.30

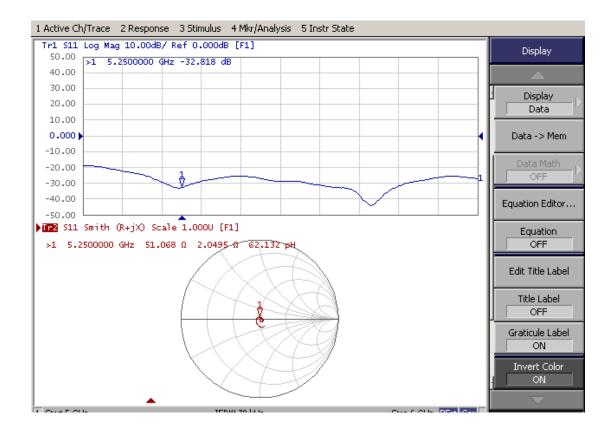
Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2020
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW5250/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 13.52 W/kg

CW5250/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 55.31 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 21.2 W/kg SAR(1 g) = 7.57 W/kg; SAR(10 g) = 2.25 W/kg Maximum value of SAR (measured) = 13.06 W/kg









### **General calibration information**

Date	2022.12.15
Test Laboratory	ShenZhen Morlab Communications Technology Co., Ltd.
Antenna serial No.	D5600V2-SN: 1176

### Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.89Ω -2.58jΩ
Return Loss	-31.355dB

#### **General Antenna Parameters and Design**

	Electrical Delay (one direction)	1.276 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feed point can be measured



Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd.

Date: 2022.12.15

System Check\_5600MHz\_Head

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1 Medium: HSL\_5600 Medium parameters used: f = 5600 MHz;  $\sigma = 5.11$  S/m;  $\epsilon_r = 35.521$ ;  $\rho = 1000$ kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

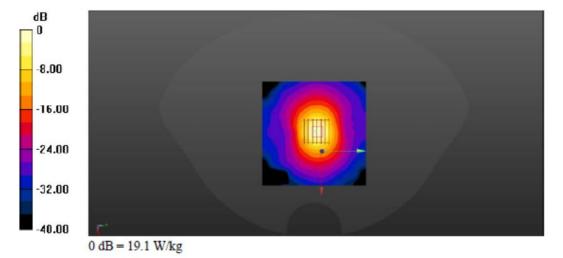
- Probe: EX3DV4 - SN7608; ConvF(4.74, 4.74, 4.74) @ 5600 MHz; Calibrated: 2022.01.12

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1643; Calibrated: 2021.12.30

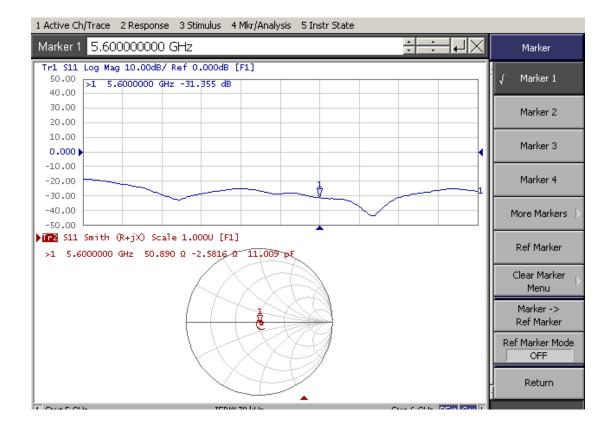
Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2020
 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW5600/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 19.24 W/kg

CW5600/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 49.70 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 21.0 W/kg SAR(1 g) = 8.05 W/kg; SAR(10 g) = 2.37 W/kg Maximum value of SAR (measured) = 19.1 W/kg









### **General calibration information**

Date	2022.12.15
Test Laboratory	ShenZhen Morlab Communications Technology Co., Ltd.
Antenna serial No.	D5750V2-SN: 1176

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.962Ω +1.96jΩ
Return Loss	-40.247dB

### **General Antenna Parameters and Design**

	Electrical Delay (one direction)	1.276 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feed point can be measured



Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd.

Date: 2022.12.15

System Check\_5750MHz\_Head

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1 Medium: HSL\_5750 Medium parameters used: f = 5750 MHz;  $\sigma = 5.355$  S/m;  $\epsilon_r = 35.127$ ;  $\rho = 1000$ kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

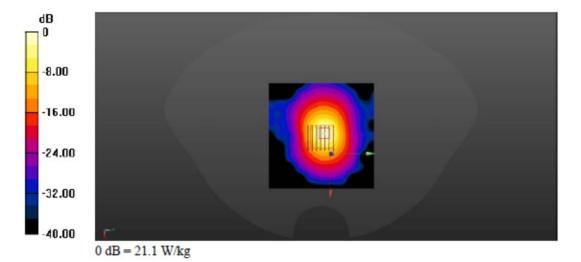
- Probe: EX3DV4 - SN3823; ConvF(4.45, 4.45, 4.45) @ 5750 MHz; Calibrated: 2022.03.04

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1643; Calibrated: 2021.12.30

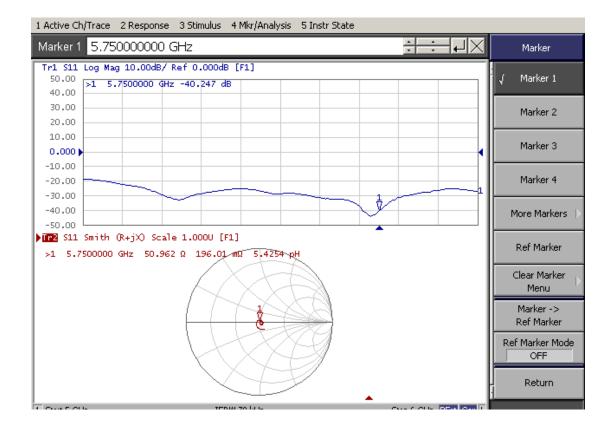
Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2020
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW5750/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 21.6 W/kg

CW5750/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 56.28 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 36.5 W/kg SAR(1 g) = 7.98 W/kg; SAR(10 g) = 2.35 W/kg Maximum value of SAR (measured) = 21.1 W/kg









### **General calibration information**

Date	2023.11.28
Test Laboratory	ShenZhen Morlab Communications Technology Co., Ltd.
Antenna serial No.	D5250V2-SN: 1176

### Antenna Parameters with Head TSL

Impedance, transformed to feed point	5.250 Ω +0.364j Ω
Return Loss	-28.158dB

### **General Antenna Parameters and Design**

Electrical Delay (one direction)	1.276 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feed point can be measured



Date: 2023.11.28 Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd.

#### System Check 5250MHz Head

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1 Medium: HSL\_5250 Medium parameters used: f = 5250 MHz;  $\sigma = 4.85$  S/m;  $\epsilon_r = 36.122$ ;  $\rho = 1000$ kg/m<sup>3</sup>

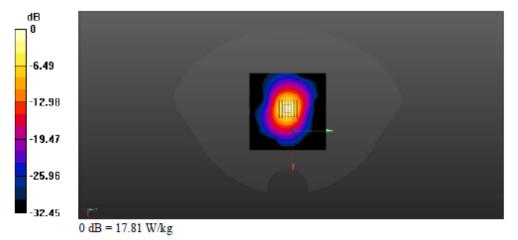
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.4 °C

#### DASY5 Configuration:

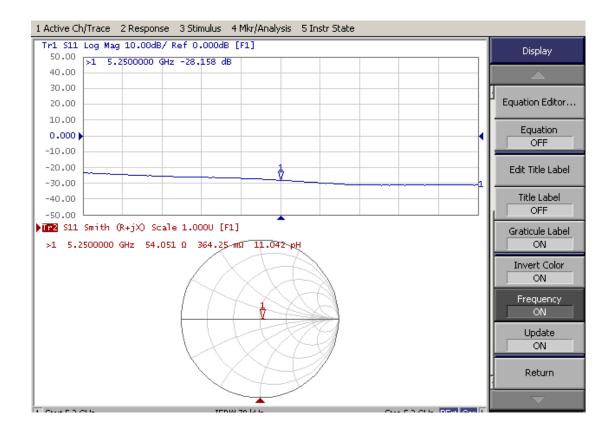
- Probe: EX3DV4 SN7608; ConvF(5.35, 5.35, 5.35) @ 5250 MHz; Calibrated: 2023.03.15
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1643; Calibrated: 2023.02.22
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2020
   Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW5250/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 17.77 W/kg

CW5250/Zoom Scan (7x7x13)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 42.38 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 45.81 W/kg SAR(1 g) = 8.23 W/kg; SAR(10 g) = 2.25 W/kg Maximum value of SAR (measured) = 17.81 W/kg









### **General calibration information**

Date	2023.11.29
Test Laboratory	ShenZhen Morlab Communications Technology Co., Ltd.
Antenna serial No.	D5600V2-SN: 1176

### Antenna Parameters with Head TSL

Impedance, transformed to feed point	55.288 Ω -0.389j Ω
Return Loss	-25.958dB

### **General Antenna Parameters and Design**

Electrical Delay (one direction)	1.276 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feed point can be measured



Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.29

#### System Check\_5600MHz\_Head

Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1 Medium: HSL\_5600 Medium parameters used: f = 5600 MHz;  $\sigma$  = 5.187 S/m;  $\epsilon_r$  = 36.116;  $\rho$  = 1000 kg/m<sup>3</sup>

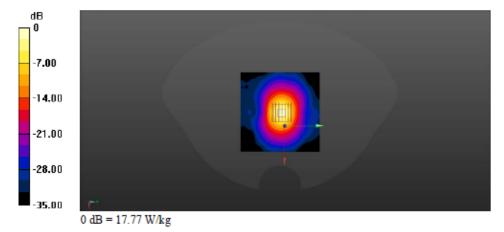
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

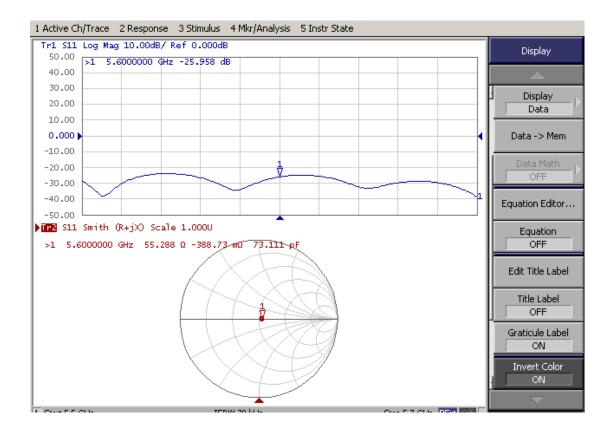
- Probe: EX3DV4 SN7608; ConvF(4.8, 4.8, 4.8) @ 5600 MHz; Calibrated: 2023.03.15
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1643; Calibrated: 2023.02.22
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2020
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW5600/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 17.77 W/kg

CW5600/Zoom Scan (7x7x13)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 52.66 V/m; Power Drift = -0.09 dB Peak SAR (extrapolated) = 31.5 W/kg SAR(1 g) = 8.42 W/kg; SAR(10 g) = 2.34 W/kg Maximum value of SAR (measured) = 17.77 W/kg









### **General calibration information**

Date	2023.11.30
Test Laboratory	ShenZhen Morlab Communications Technology Co., Ltd.
Antenna serial No.	D5750V2-SN: 1176

### Antenna Parameters with Head TSL

Impedance, transformed to feed point	53.308 Ω +2.342j Ω
Return Loss	-28.129dB

### **General Antenna Parameters and Design**

Electrical Delay (one direction)	1.276 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feed point can be measured



Date: 2023.11.30 Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd.

#### System Check\_5750MHz\_Head

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1 Medium: HSL 5750 Medium parameters used: f = 5750 MHz;  $\sigma = 5.226$  S/m;  $\epsilon_r = 35.494$ ;  $\rho = 1000$ kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.3 °C

#### DASY5 Configuration:

- Probe: EX3DV4 SN7608; ConvF(4.87, 4.87, 4.87) @ 5750 MHz; Calibrated: 2023.03.15
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1643; Calibrated: 2023.02.22
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2020
   Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW5750/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 29.4 W/kg

CW5750/Zoom Scan (7x7x13)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 46.23 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 45.5 W/kg SAR(1 g) = 8.56 W/kg; SAR(10 g) = 2.41 W/kg Maximum value of SAR (measured) = 15.3 W/kg

