

# APPENDIX 1

## SAR Measurement Data

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### EXHIBIT 1. HEAD SAR MEASUREMENTS

					Device Back Facing Phantom ( Required Mounting per User Manual)			Device Front Facing Phantom (Least Antenna Separation Distance)		
					Power Drift (dB)	Measured HEAD		Power Drift (dB)	Measured HEAD	
Device Model	Device S/N	Channel	Frequency (MHz)	Power (dBm)		SAR1g (mW/g)	SAR10g (mW/g)		SAR1g (mW/g)	SAR10g (mW/g)
QT-5100 Incognito 100mW	10395	1	470	20.13	0.000	1.340	0.797	0.000	1.360	0.799
		2	489	19.97	0.200	0.824	0.487			
		3	508	19.96	0.380	0.655	0.382			
		4	526	19.97	0.210	0.643	0.375			
		5	545	20.03	0.270	0.603	0.352			

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 Incognito 470MHz, 100mW front-10395.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 10395**

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.858$  S/m;  $\epsilon_r = 44.721$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Head\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Head front, P=100mW, d=0mm/Area Scan (71x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.91 W/kg

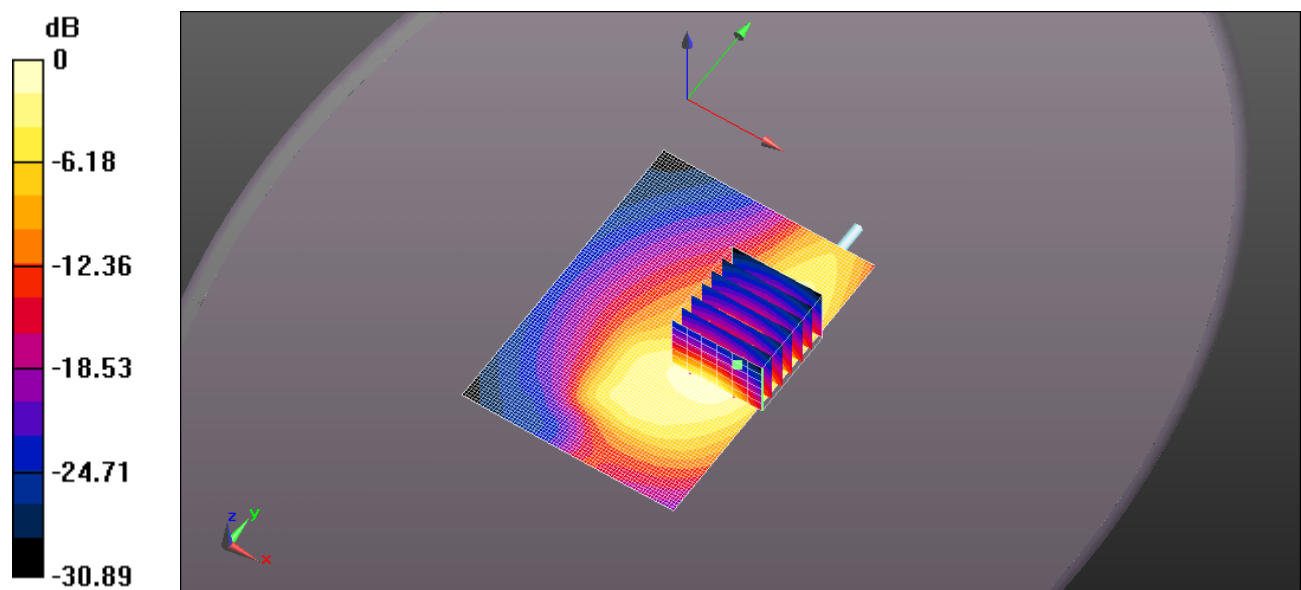
**Configuration\_Head\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Head front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 49.81 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 2.36 W/kg

**SAR(1 g) = 1.36 W/kg; SAR(10 g) = 0.799 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.62 W/kg



0 dB = 1.91 W/kg = 2.80 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 Incognito 470MHz, 100mW back-10395.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 10395**

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.858$  S/m;  $\epsilon_r = 44.721$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Head\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Head back, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 2.26 W/kg

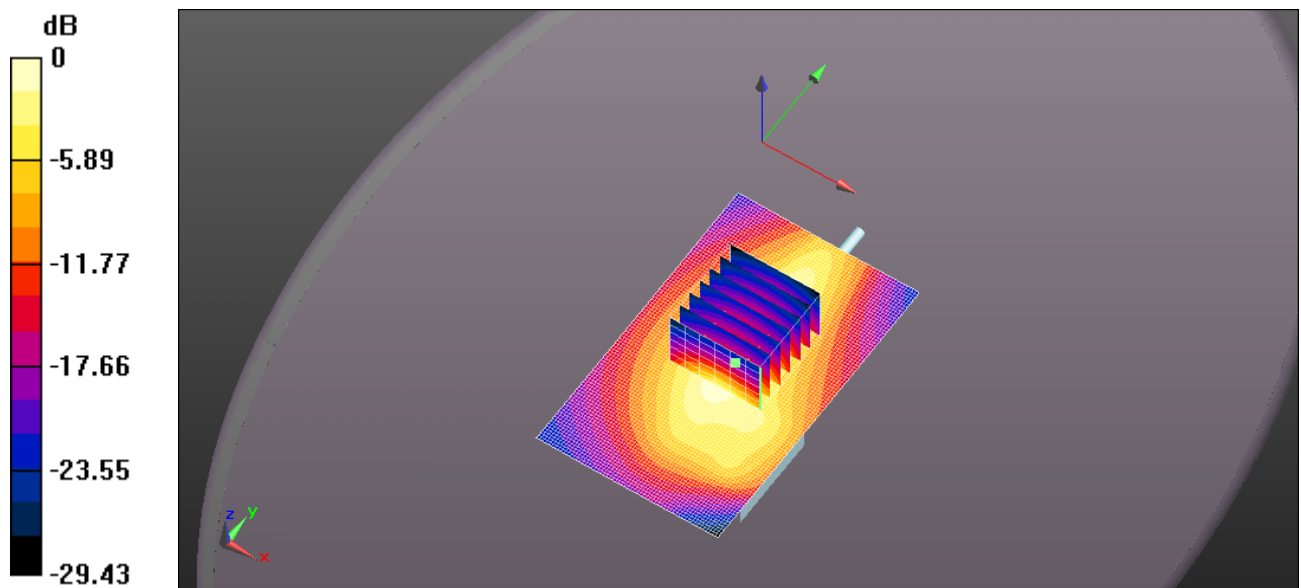
**Configuration\_Head\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Head back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.91 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.28 W/kg

**SAR(1 g) = 1.34 W/kg; SAR(10 g) = 0.797 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.62 W/kg



0 dB = 2.26 W/kg = 3.54 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 Incognito 489MHz, 100mW back-10395.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 10395**

Communication System: UID 0, CW (0); Frequency: 489 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 489$  MHz;  $\sigma = 0.881$  S/m;  $\epsilon_r = 44.338$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

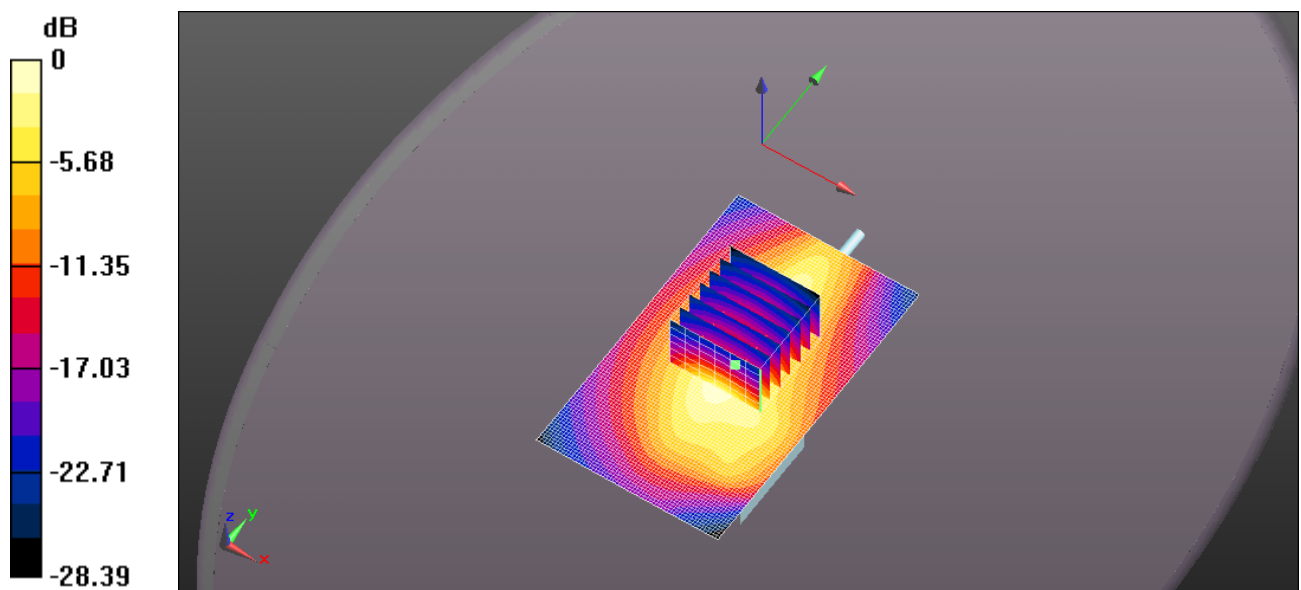
**Configuration\_Head\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Head back, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

**Configuration\_Head\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Head back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.33 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 1.44 W/kg

**SAR(1 g) = 0.824 W/kg; SAR(10 g) = 0.487 W/kg** (SAR corrected for target medium)



0 dB = 1.32 W/kg = 1.21 dBW/kg

Test Laboratory: Ultratech Group of Labs

**File Name:** [Q5X-064Q OT-5100 Incognito 508MHz, 100mW back-10395.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 10395**

Communication System: UID 0, CW (0); Frequency: 508 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 508$  MHz;  $\sigma = 0.899$  S/m;  $\epsilon_r = 43.932$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

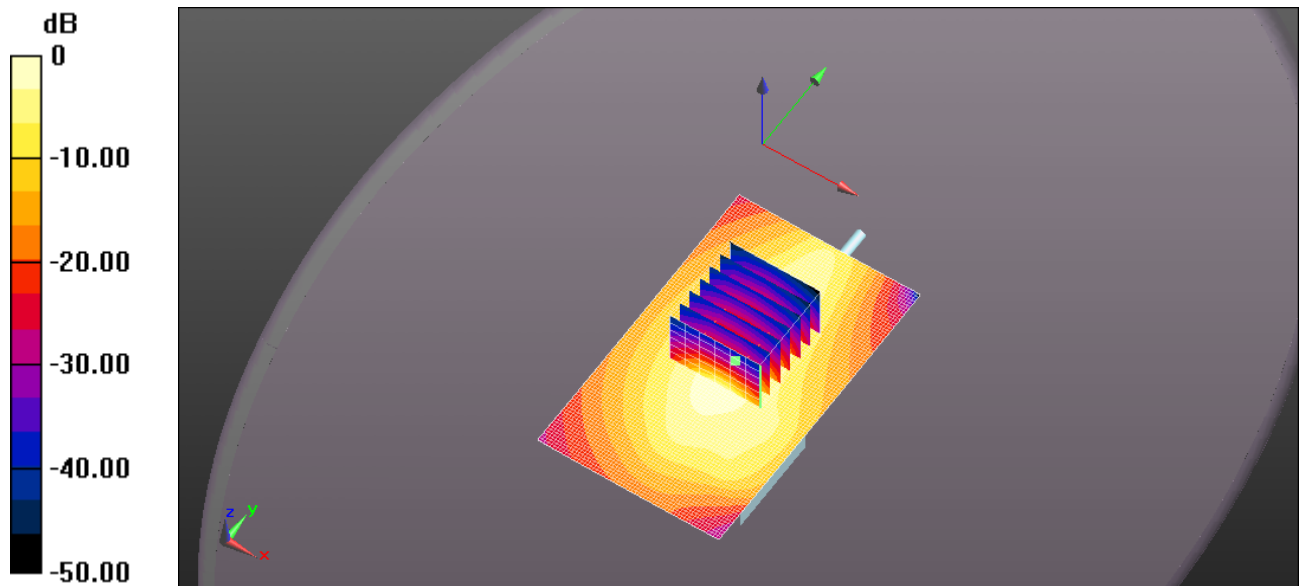
**Configuration\_Head\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Head back, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

**Configuration\_Head\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Head back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.72 V/m; Power Drift = 0.38 dB

Peak SAR (extrapolated) = 1.20 W/kg

**SAR(1 g) = 0.655 W/kg; SAR(10 g) = 0.382 W/kg** (SAR corrected for target medium)



0 dB = 1.18 W/kg = 0.71 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 Incognito 526MHz, 100mW back-10395.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 10395**

Communication System: UID 0, CW (0); Frequency: 526 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 526$  MHz;  $\sigma = 0.904$  S/m;  $\epsilon_r = 43.761$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

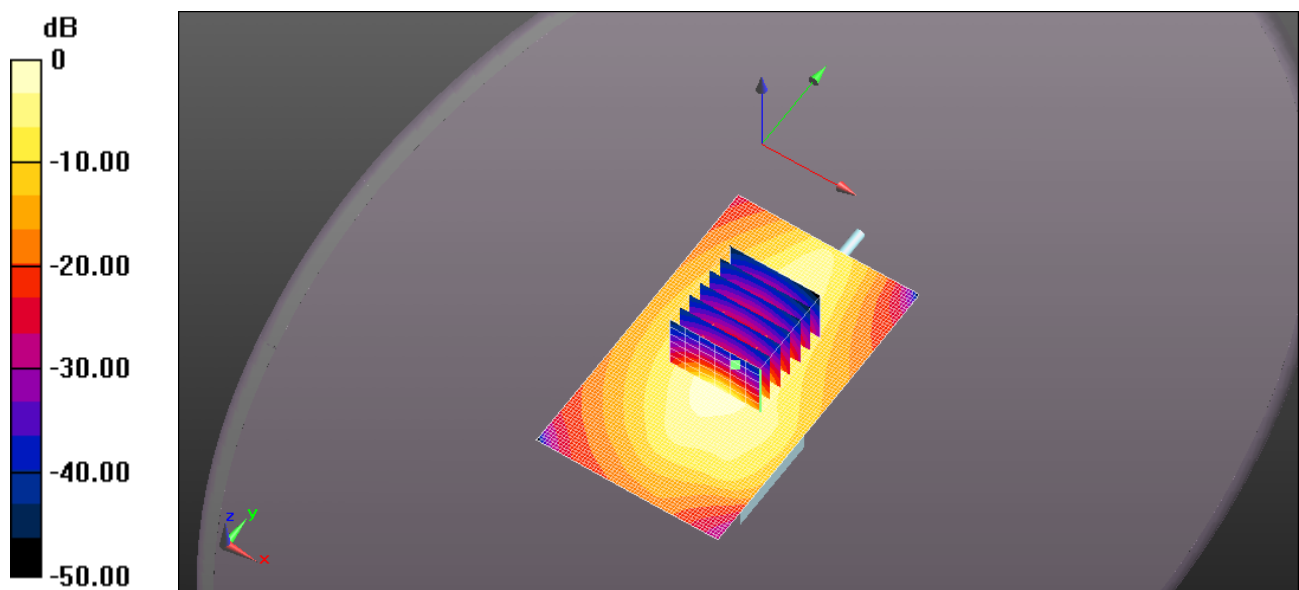
**Configuration\_Head\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Head back, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

**Configuration\_Head\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Head back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.15 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 1.17 W/kg

**SAR(1 g) = 0.643 W/kg; SAR(10 g) = 0.375 W/kg** (SAR corrected for target medium)



0 dB = 1.07 W/kg = 0.28 dBW/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 Incognito 545MHz, 100mW back-10395.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 10395**

Communication System: UID 0, CW (0); Frequency: 545 MHz; Duty Cycle: 1:1  
Medium parameters used (extrapolated):  $f = 545 \text{ MHz}$ ;  $\sigma = 0.923 \text{ S/m}$ ;  $\epsilon_r = 43.498$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

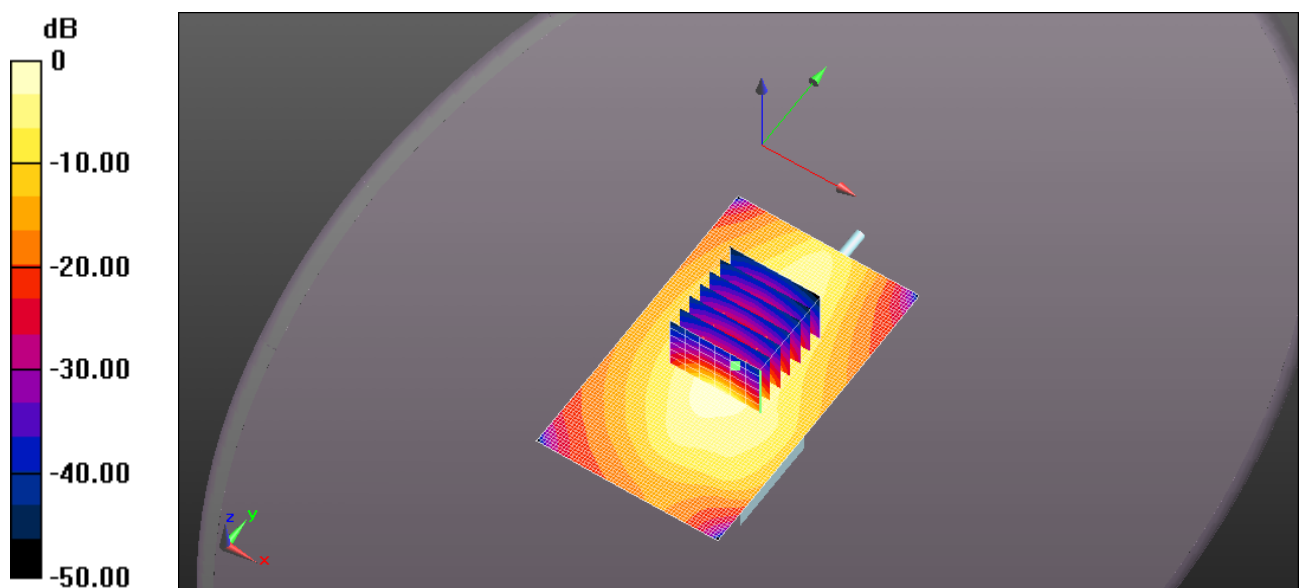
**Configuration\_Head\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Head back, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

**Configuration\_Head\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Head back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.69 V/m; Power Drift = 0.27 dB

Peak SAR (extrapolated) = 1.12 W/kg

**SAR(1 g) = 0.603 W/kg; SAR(10 g) = 0.352 W/kg** (SAR corrected for target medium)



## EXHIBIT 2. BODY SAR MEASUREMENTS

					Device Back Facing Phantom ( Required Mounting Per User Manual)			Device Front Facing Phantom (Least antenna separation distance)		
Device Model	Device S/N	Channel	Frequency (MHz)	Power (dBm)	Power Drift (dB)	Measured BODY		Power Drift (dB)	Measured BODY	
						SAR1g (mW/g)	SAR10g (mW/g)		SAR1g (mW/g)	SAR10g (mW/g)
QT-5100 PlayerMic 100mW	20326	1	470	19.87	0.350	0.573	0.350	0.080	1.160	0.661
		2	489	20.02				0.000	0.789	0.456
		3	508	19.85				0.000	0.567	0.327
		4	526	20.04				0.000	0.545	0.306
		5	545	19.99				0.000	0.570	0.321

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q\\_QT-5100 PlayerMic 470MHz, 100mW Front-20326.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20326**

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 57.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 PlayerMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (51x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.96 W/kg

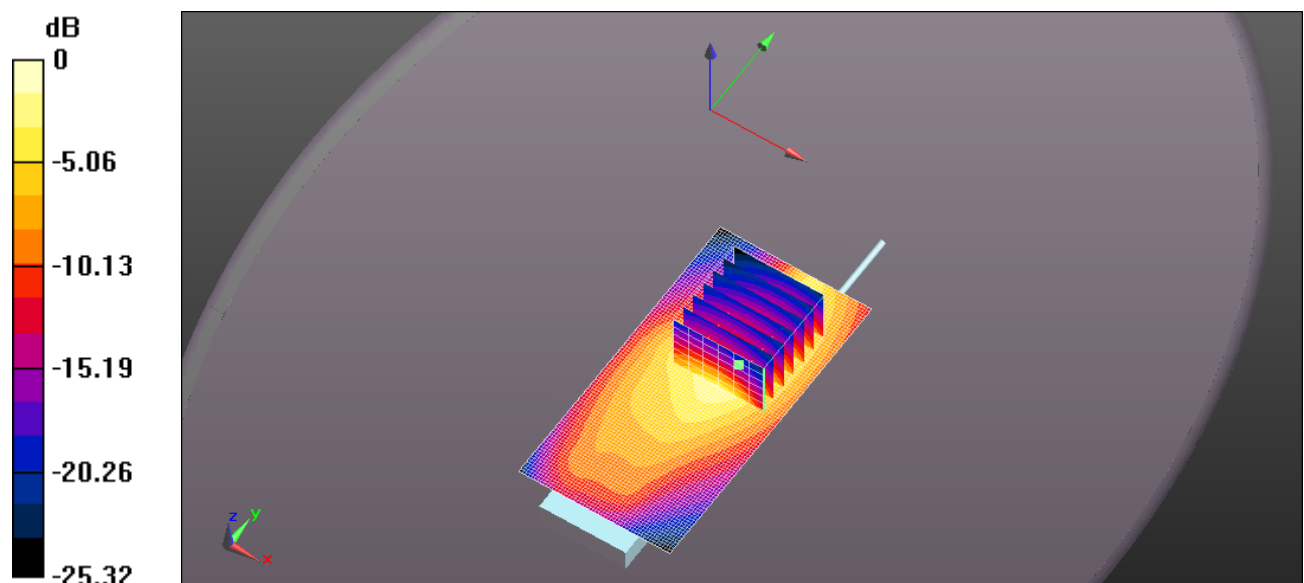
**Configuration\_Body\_Q5X QT-5100 PlayerMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 43.60 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.16 W/kg

**SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.661 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.41 W/kg



0 dB = 1.96 W/kg = 2.92 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 PlayerMic 470MHz 100mW Back-20326.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20326**

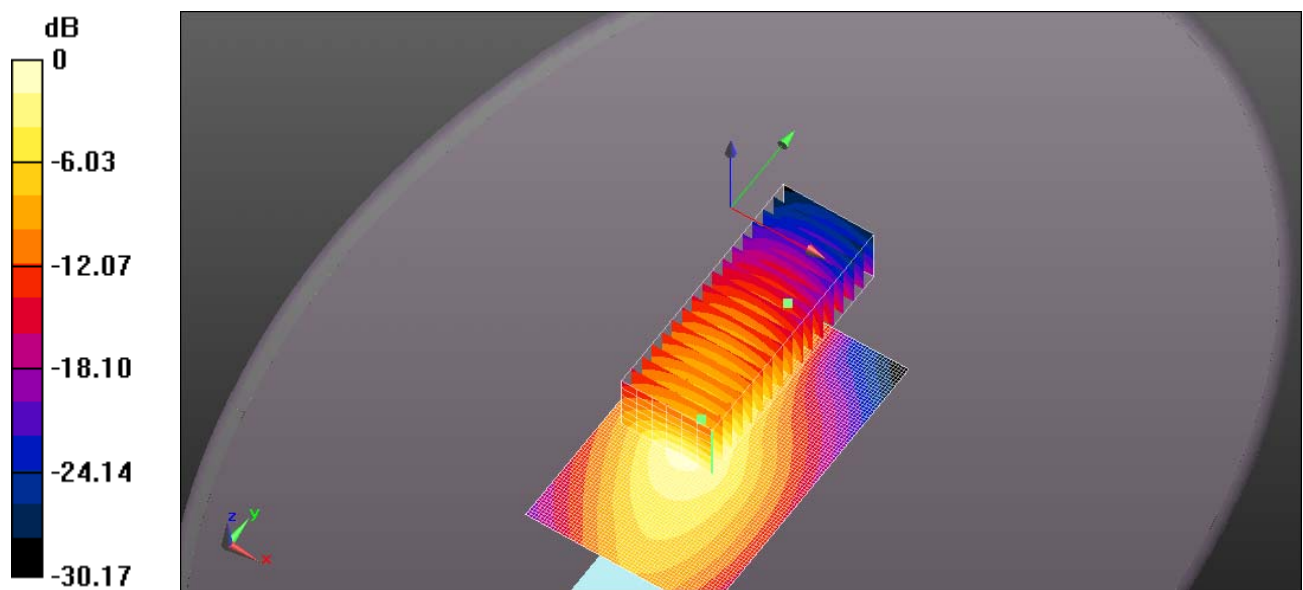
Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 57.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 PlayerMic Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.898 W/kg

**Configuration\_Body\_Q5X QT-5100 PlayerMic Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x17x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 12.91 V/m; Power Drift = 0.35 dB  
Peak SAR (extrapolated) = 1.50 W/kg  
**SAR(1 g) = 0.573 W/kg; SAR(10 g) = 0.350 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (measured) = 0.676 W/kg



0 dB = 0.898 W/kg = -0.47 dBW/kg

Test Laboratory: Ultratech Group of Labs

**File Name:** [Q5X-064Q QT-5100 PlayerMic 489MHz 100mW Front-20326.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20326**

Communication System: UID 0, CW (0); Frequency: 489 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 489$  MHz;  $\sigma = 0.943$  S/m;  $\epsilon_r = 57.254$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 PlayerMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (51x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.14 W/kg

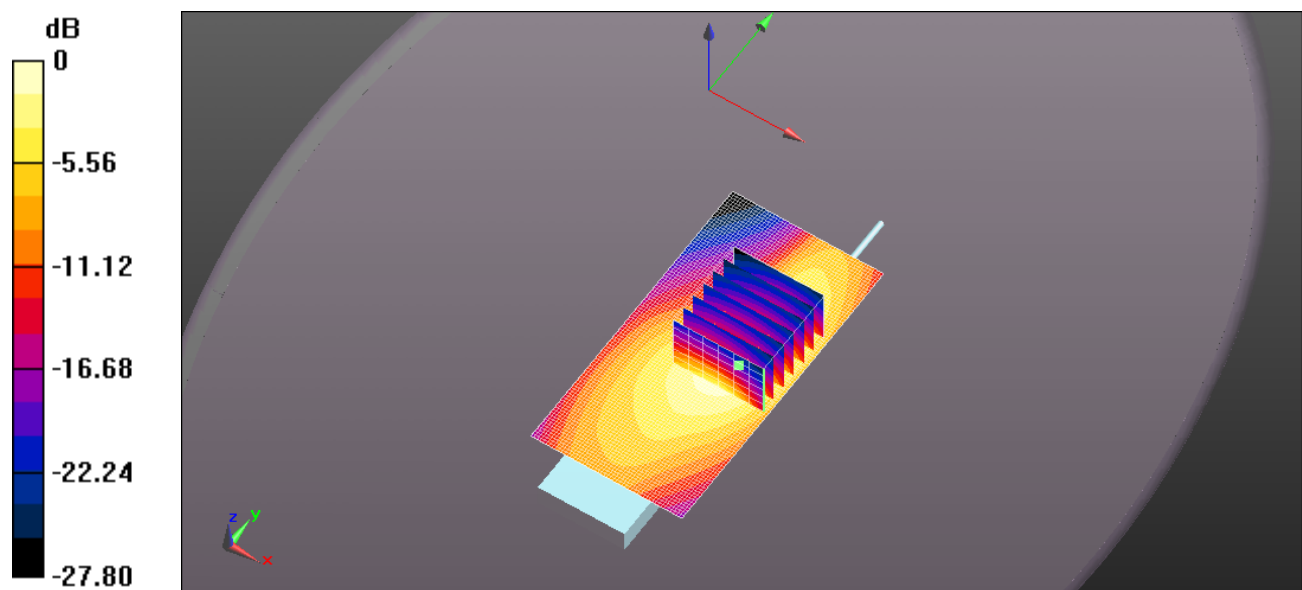
**Configuration\_Body\_Q5X QT-5100 PlayerMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 37.20 V/m; Power Drift = -0.23 dB

Peak SAR (extrapolated) = 1.46 W/kg

**SAR(1 g) = 0.789 W/kg; SAR(10 g) = 0.456 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.973 W/kg



0 dB = 1.14 W/kg = 0.57 dBW/kg

Test Laboratory: Ultratech Group of Labs

**File Name:** [Q5X-064Q QT-5100 PlayerMic 508MHz 100mW Front-20326.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20326**

Communication System: UID 0, CW (0); Frequency: 508 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 508 \text{ MHz}$ ;  $\sigma = 0.958 \text{ S/m}$ ;  $\epsilon_r = 56.963$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 PlayerMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 0.832 W/kg

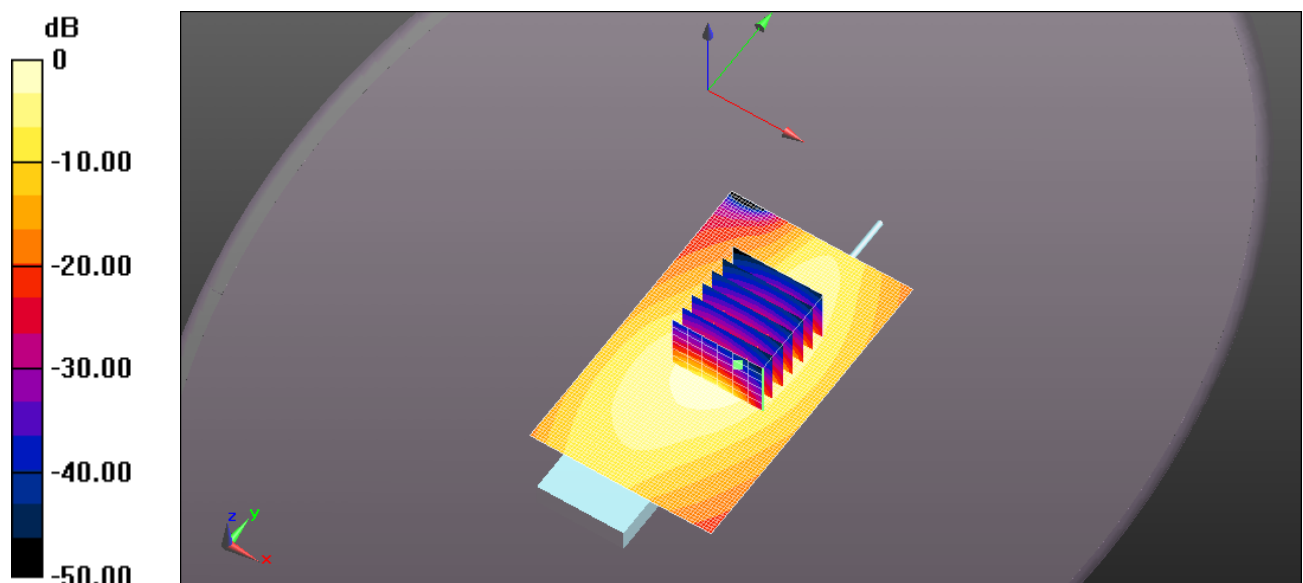
**Configuration\_Body\_Q5X QT-5100 PlayerMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 31.79 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.07 W/kg

**SAR(1 g) = 0.567 W/kg; SAR(10 g) = 0.327 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.710 W/kg



0 dB = 0.832 W/kg = -0.80 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 PlayerMic 526MHz 100mW Front-20326.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20326**

Communication System: UID 0, CW (0); Frequency: 526 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 526$  MHz;  $\sigma = 0.975$  S/m;  $\epsilon_r = 56.757$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 PlayerMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.826 W/kg

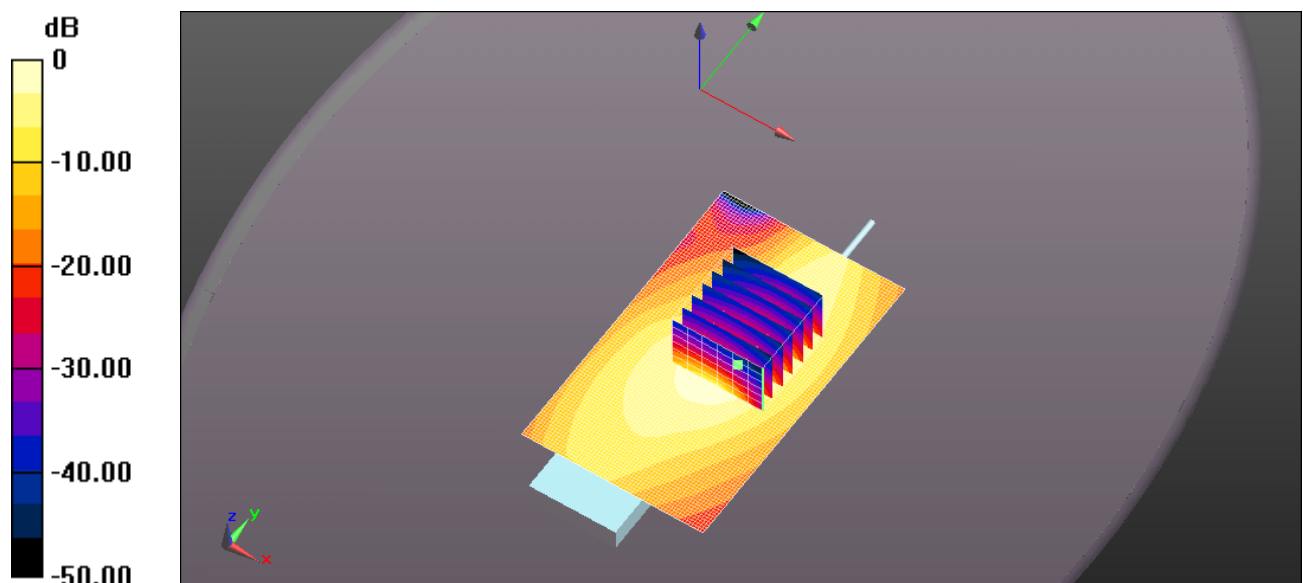
**Configuration\_Body\_Q5X QT-5100 PlayerMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 30.05 V/m; Power Drift = -0.33 dB

Peak SAR (extrapolated) = 1.08 W/kg

**SAR(1 g) = 0.545 W/kg; SAR(10 g) = 0.306 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.708 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 PlayerMic 545MHz 100mW Front-20326.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20326**

Communication System: UID 0, CW (0); Frequency: 545 MHz; Duty Cycle: 1:1  
Medium parameters used (extrapolated):  $f = 545 \text{ MHz}$ ;  $\sigma = 0.991 \text{ S/m}$ ;  $\epsilon_r = 56.57$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 PlayerMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) =  $0.877 \text{ W/kg}$

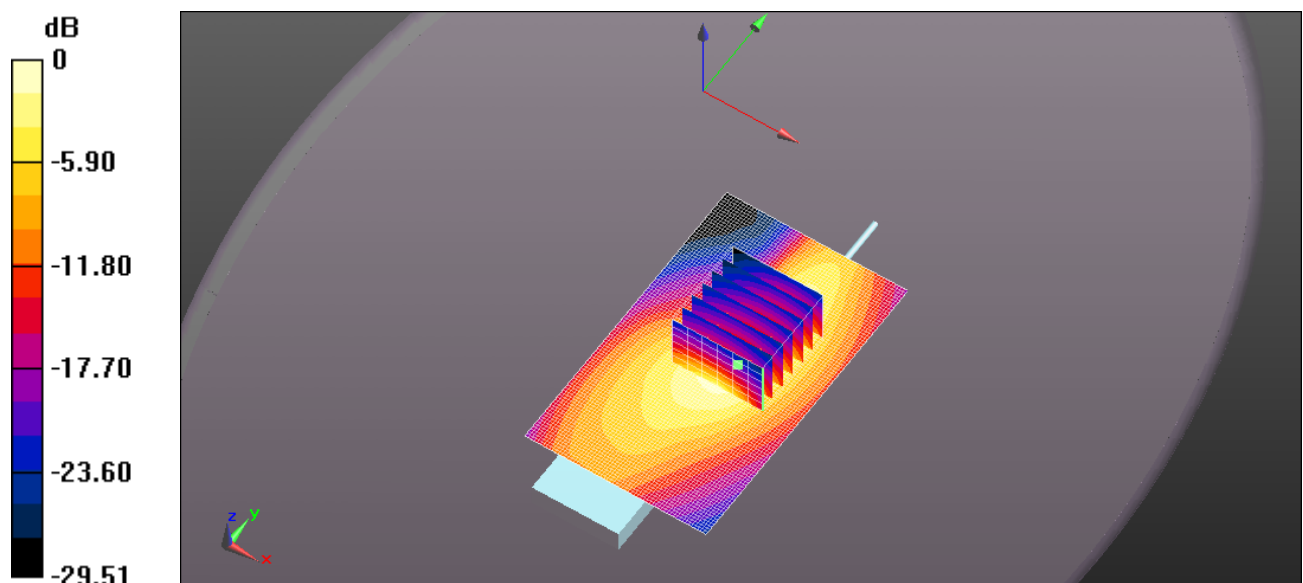
**Configuration\_Body\_Q5X QT-5100 PlayerMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $30.96 \text{ V/m}$ ; Power Drift =  $-0.28 \text{ dB}$

Peak SAR (extrapolated) =  $1.14 \text{ W/kg}$

**SAR(1 g) =  $0.570 \text{ W/kg}$ ; SAR(10 g) =  $0.321 \text{ W/kg}$**  (SAR corrected for target medium)

Maximum value of SAR (measured) =  $0.741 \text{ W/kg}$



0 dB =  $0.877 \text{ W/kg}$  =  $-0.57 \text{ dBW/kg}$



**Wireless Microphone Audio Transmitter, M/N:QT-5100A**

					Device Back Facing Phantom ( Required Mounting Per User Manual)			Device Front Facing Phantom (Least antenna separation distance)		
Device Model	Device S/N	Channel	Frequency (MHz)	Power (dBm)	Power Drift (dB)	Measured BODY		Power Drift (dB)	Measured BODY	
						SAR1g (mW/g)	SAR10g (mW/g)		SAR1g (mW/g)	SAR10g (mW/g)
QT-5100 PlayerMicS 100mW	20324	1	470	19.89	0.150	1.160	0.688	0.050	1.420	0.828
		2	489	20.02				0.110	0.834	0.484
		3	508	20.05				0.130	0.625	0.354
		4	526	20.13				0.130	0.667	0.379
		5	545	20.14				0.020	0.623	0.357

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 PlayerMicS 470MHz, 100mW Front-20324.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20324**

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 57.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 PlayerMicS Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (51x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 2.26 W/kg

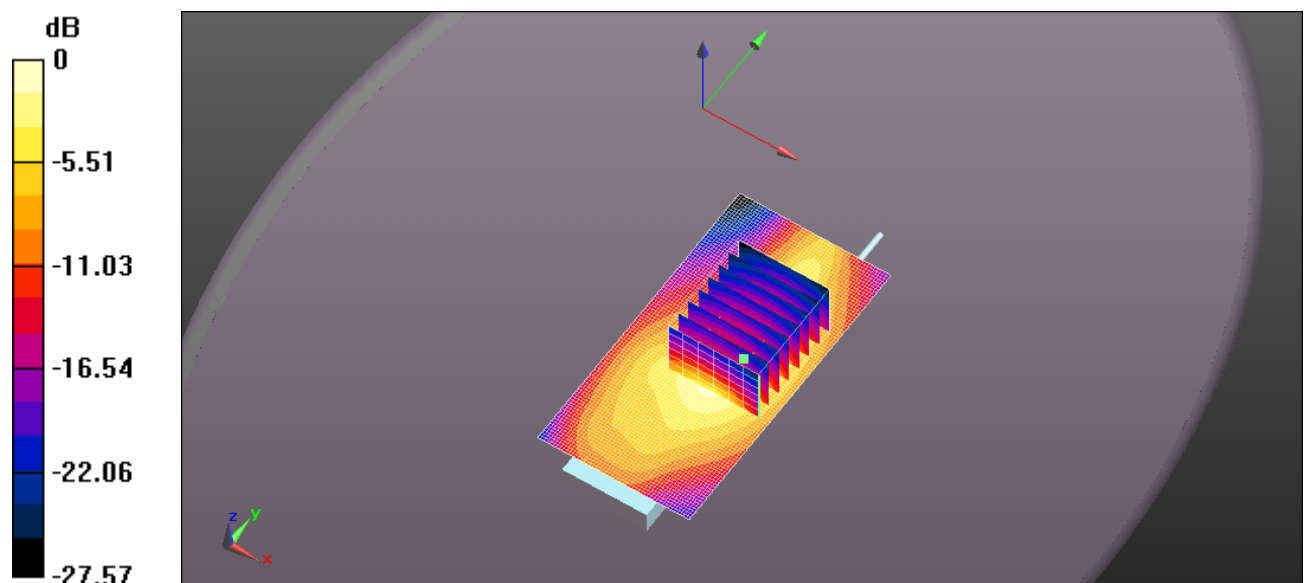
**Configuration\_Body\_Q5X QT-5100 PlayerMicS Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x8x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 50.35 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.56 W/kg

**SAR(1 g) = 1.42 W/kg; SAR(10 g) = 0.828 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.75 W/kg



0 dB = 2.26 W/kg = 3.55 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 PlayerMicS 470MHz, 100mW Back-20324.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20324**

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 57.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 PlayerMicS Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.93 W/kg

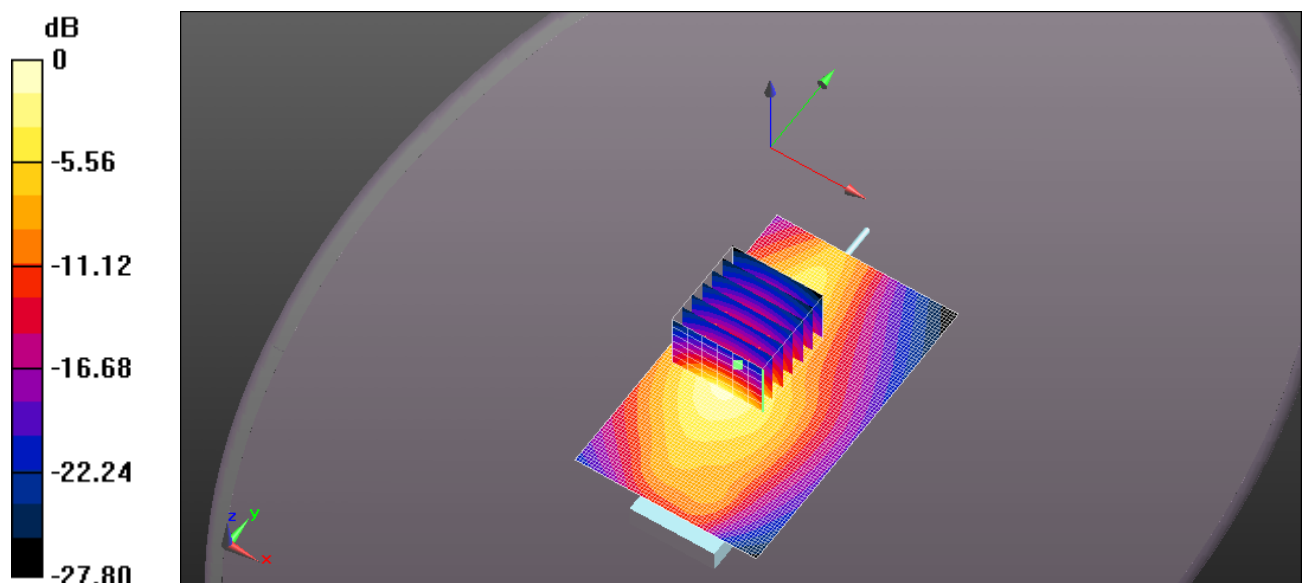
**Configuration\_Body\_Q5X QT-5100 PlayerMicS Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.77 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.04 W/kg

**SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.688 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.41 W/kg



0 dB = 1.93 W/kg = 2.85 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 PlayerMicS 489MHz, 100mW Front-20324.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20324**

Communication System: UID 0, CW (0); Frequency: 489 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 489$  MHz;  $\sigma = 0.943$  S/m;  $\epsilon_r = 57.254$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 PlayerMicS Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.42 W/kg

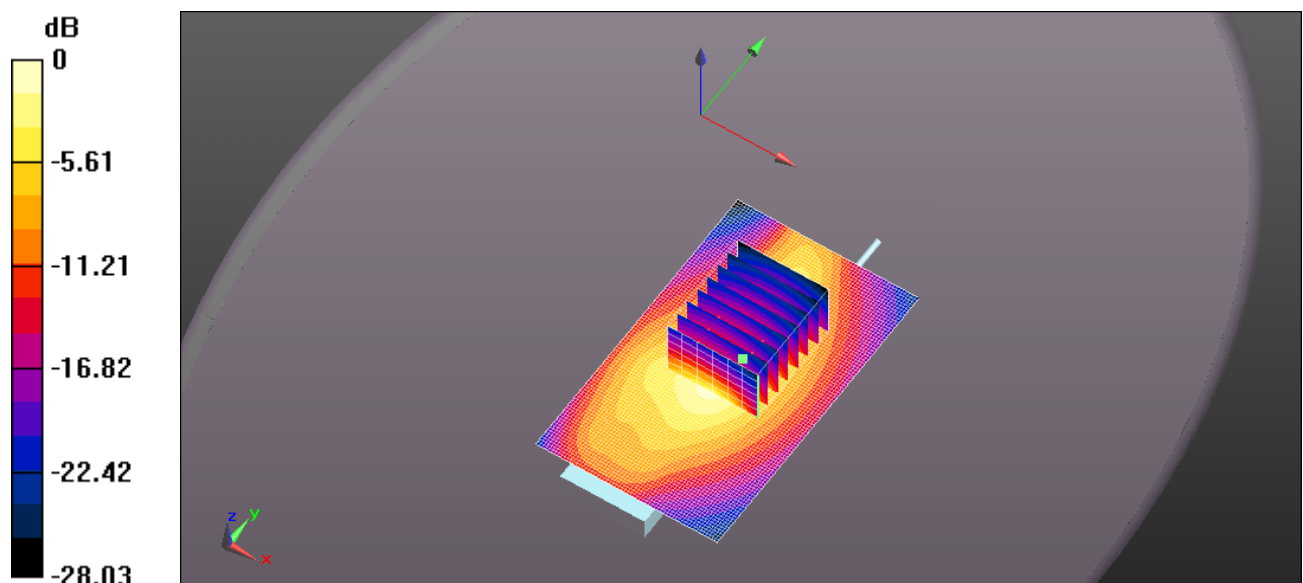
**Configuration\_Body\_Q5X QT-5100 PlayerMicS Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x8x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 37.04 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.834 W/kg; SAR(10 g) = 0.484 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.42 W/kg = 1.53 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 PlayerMicS 508MHz, 100mW Front-20324.da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20324

Communication System: UID 0, CW (0); Frequency: 508 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 508$  MHz;  $\sigma = 0.958$  S/m;  $\epsilon_r = 56.963$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 PlayerMicS Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.09 W/kg

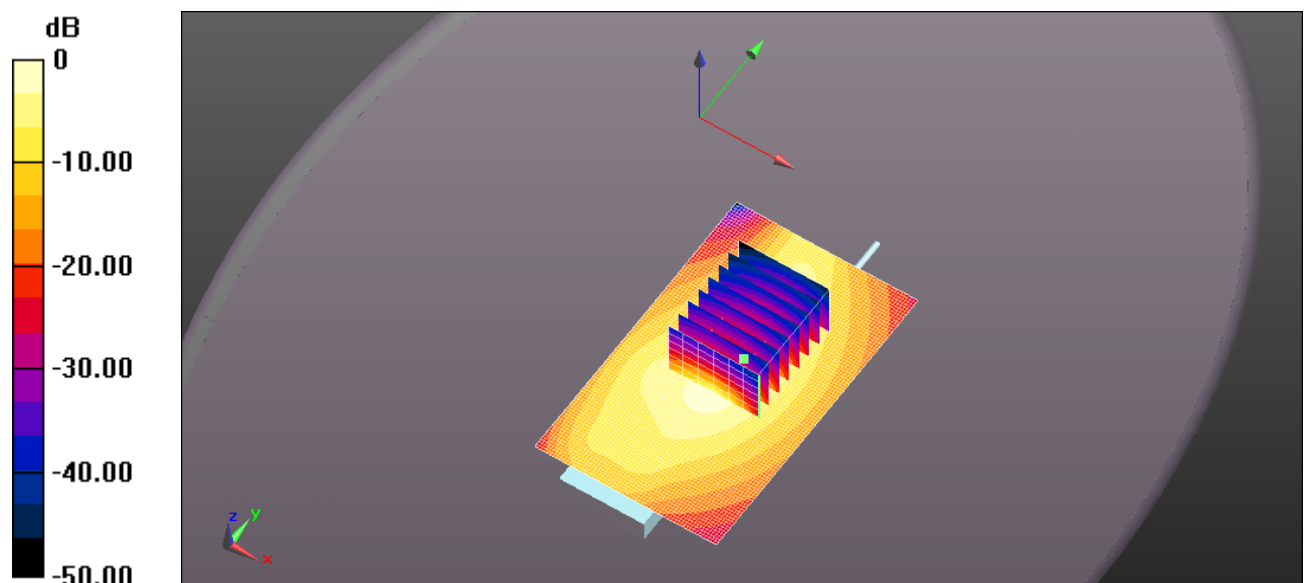
**Configuration\_Body\_Q5X QT-5100 PlayerMicS Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x8x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 32.44 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.625 W/kg; SAR(10 g) = 0.354 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.793 W/kg



0 dB = 1.09 W/kg = 0.39 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 PlayerMicS 526MHz 100mW Front-20324.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20324**

Communication System: UID 0, CW (0); Frequency: 526 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 526$  MHz;  $\sigma = 0.975$  S/m;  $\epsilon_r = 56.757$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 PlayerMicS Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.17 W/kg

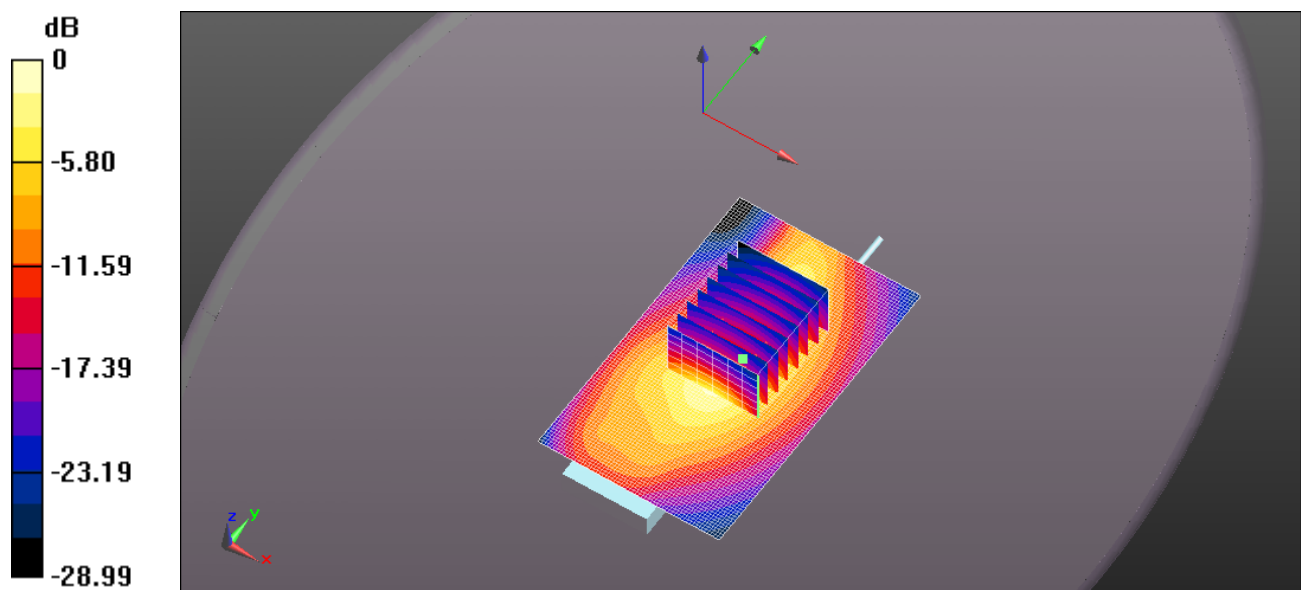
**Configuration\_Body\_Q5X QT-5100 PlayerMicS Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x8x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 33.08 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.27 W/kg

**SAR(1 g) = 0.667 W/kg; SAR(10 g) = 0.379 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.855 W/kg



0 dB = 1.17 W/kg = 0.70 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 PlayerMicS 545MHz, 100mW Front-20324.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20324**

Communication System: UID 0, CW (0); Frequency: 545 MHz; Duty Cycle: 1:1  
Medium parameters used (extrapolated):  $f = 545 \text{ MHz}$ ;  $\sigma = 0.991 \text{ S/m}$ ;  $\epsilon_r = 56.57$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 PlayerMicS Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 1.05 W/kg

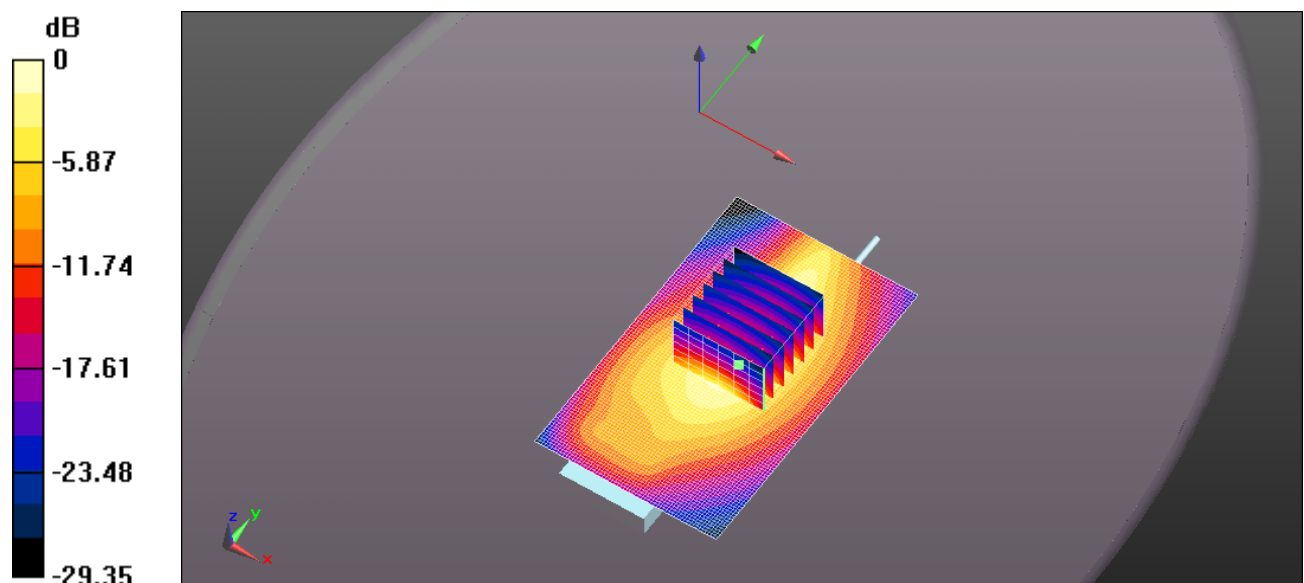
**Configuration\_Body\_Q5X QT-5100 PlayerMicS Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 32.20 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.20 W/kg

**SAR(1 g) = 0.623 W/kg; SAR(10 g) = 0.357 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.798 W/kg



0 dB = 1.05 W/kg = 0.23 dBW/kg

**Wireless Microphone Audio Transmitter, M/N:QT-5100A**

					Device Back Facing Phantom ( Required Mounting Per User Manual)			Device Front Facing Phantom (Least antenna separation distance)		
Device Model	Device S/N	Channel	Frequency (MHz)	Power (dBm)	Power Drift (dB)	Measured BODY		Power Drift (dB)	Measured BODY	
						SAR1g (mW/g)	SAR10g (mW/g)		SAR1g (mW/g)	SAR10g (mW/g)
QT-5100 Incognito 100mW	10395	1	470	20.13	0.100	1.360	0.805	0.140	1.010	0.569
		2	489	19.97	0.250	0.773	0.459			
		3	508	19.96	0.410	0.533	0.308			
		4	526	19.97	0.440	0.559	0.324			
		5	545	20.03	0.160	0.560	0.329			



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 Incognito 470MHz 100mW Back-10395.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 10395**

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 57.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 2.10 W/kg

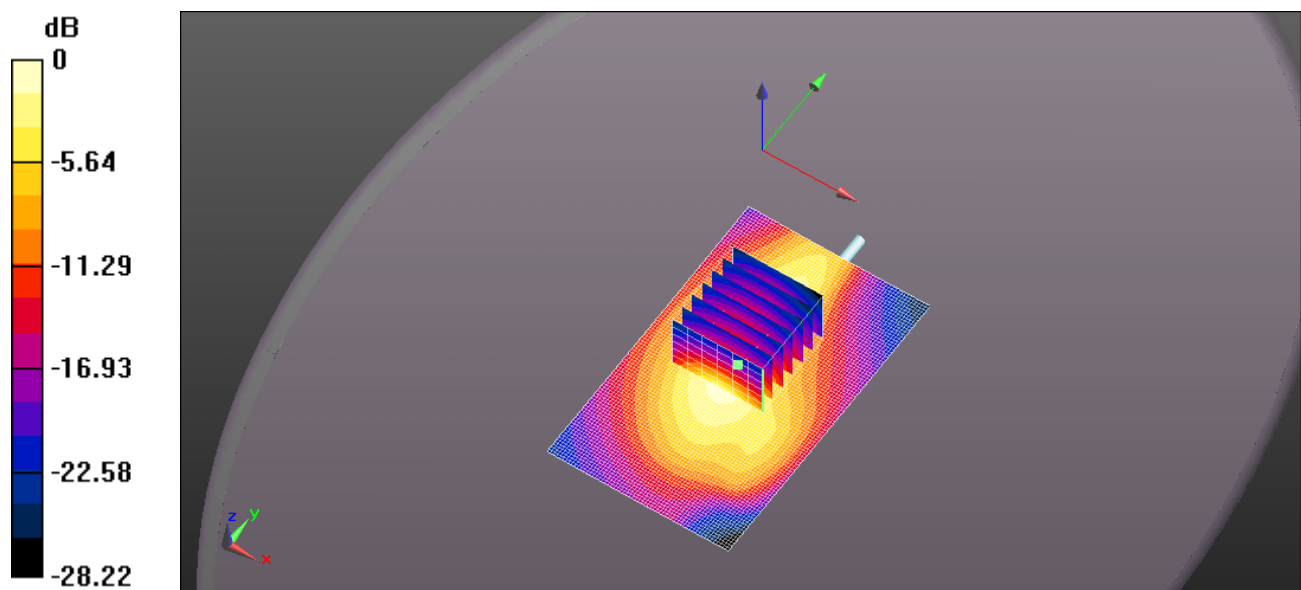
**Configuration\_Body\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 21.90 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.38 W/kg

**SAR(1 g) = 1.36 W/kg; SAR(10 g) = 0.805 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.65 W/kg



0 dB = 2.10 W/kg = 3.22 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 Incognito 470MHz, 100mW Front-10395.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 10395**

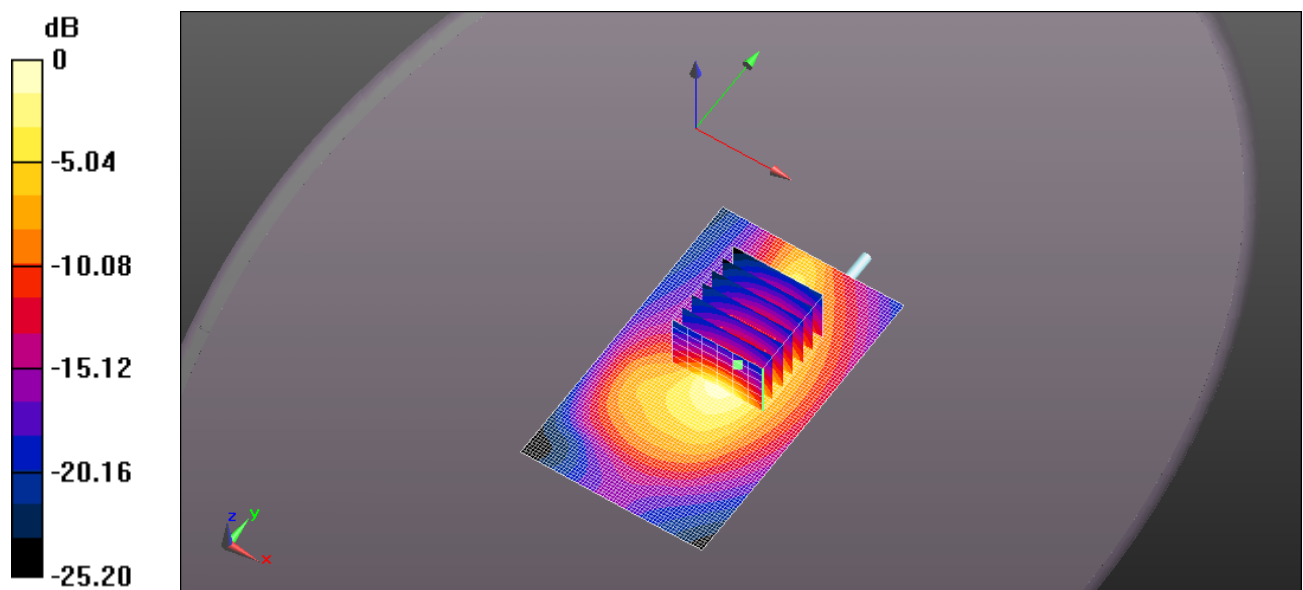
Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 57.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.69 W/kg

**Configuration\_Body\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 37.56 V/m; Power Drift = 0.14 dB  
Peak SAR (extrapolated) = 1.87 W/kg  
**SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.569 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.69 W/kg = 2.29 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 Incognito 489MHz 100mW Back-10395.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 10395**

Communication System: UID 0, CW (0); Frequency: 489 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 489$  MHz;  $\sigma = 0.943$  S/m;  $\epsilon_r = 57.254$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.22 W/kg

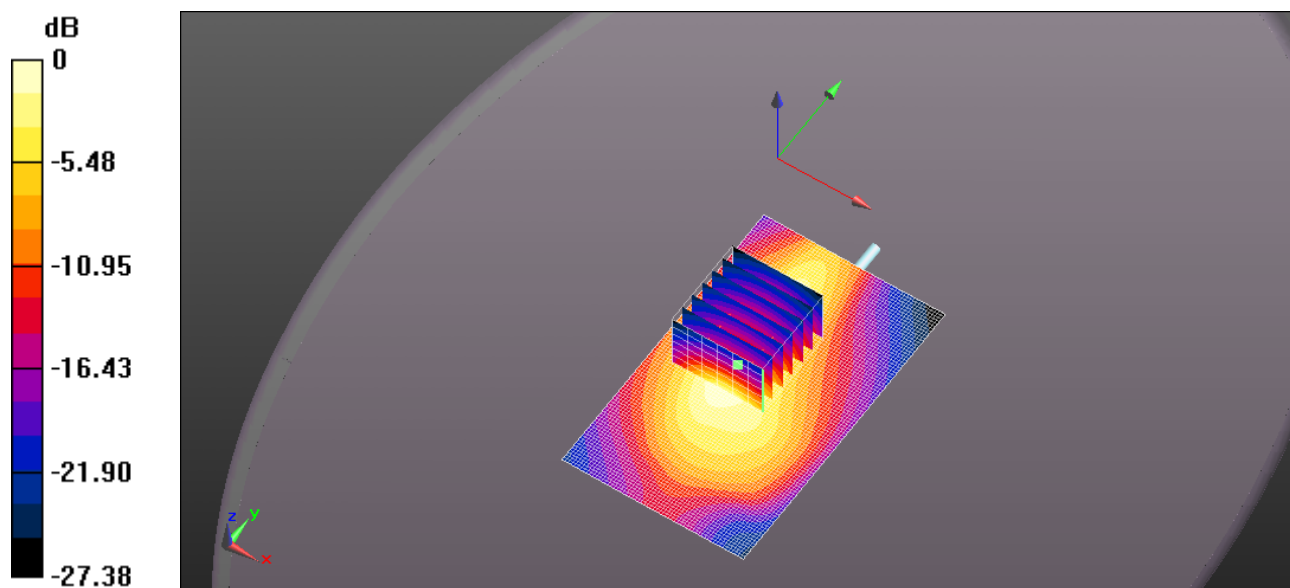
**Configuration\_Body\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.05 V/m; Power Drift = 0.25 dB

Peak SAR (extrapolated) = 1.36 W/kg

**SAR(1 g) = 0.773 W/kg; SAR(10 g) = 0.459 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.936 W/kg



0 dB = 1.22 W/kg = 0.85 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 Incognito 508MHz 100mW Back-10395.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 10395**

Communication System: UID 0, CW (0); Frequency: 508 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 508 \text{ MHz}$ ;  $\sigma = 0.958 \text{ S/m}$ ;  $\epsilon_r = 56.963$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 0.829 W/kg

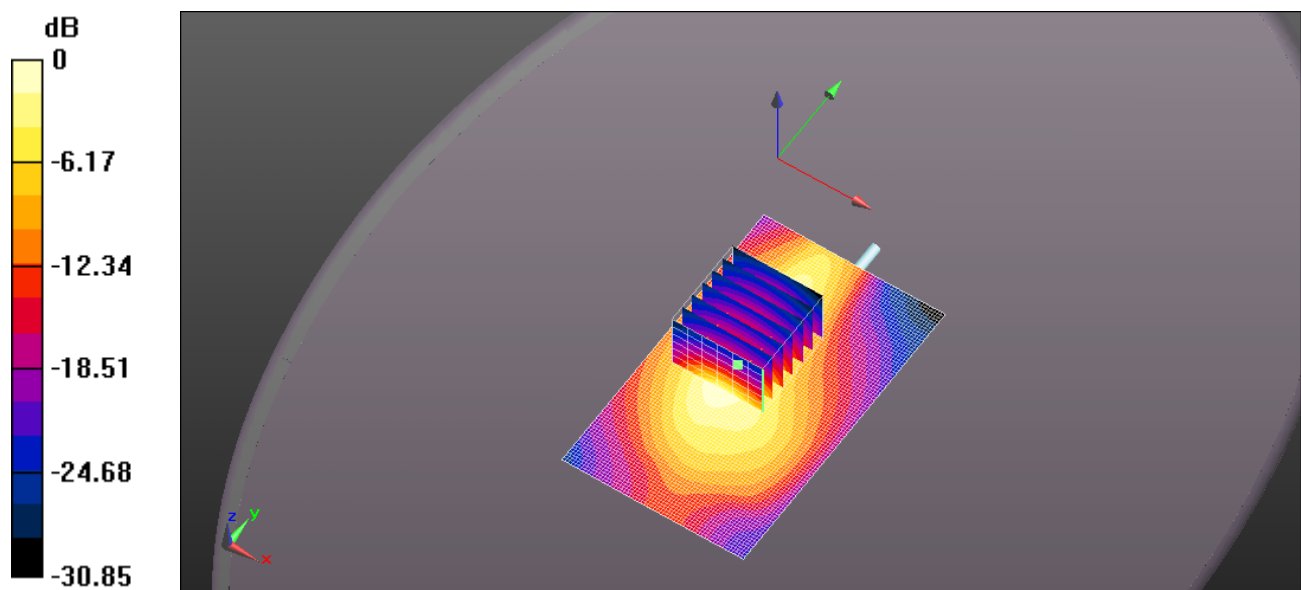
**Configuration\_Body\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 9.103 V/m; Power Drift = 0.41 dB

Peak SAR (extrapolated) = 0.981 W/kg

**SAR(1 g) = 0.533 W/kg; SAR(10 g) = 0.308 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.665 W/kg



0 dB = 0.829 W/kg = -0.81 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 Incognito 526MHz 100mW Back-10395.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 10395**

Communication System: UID 0, CW (0); Frequency: 526 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 526$  MHz;  $\sigma = 0.975$  S/m;  $\epsilon_r = 56.757$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.891 W/kg

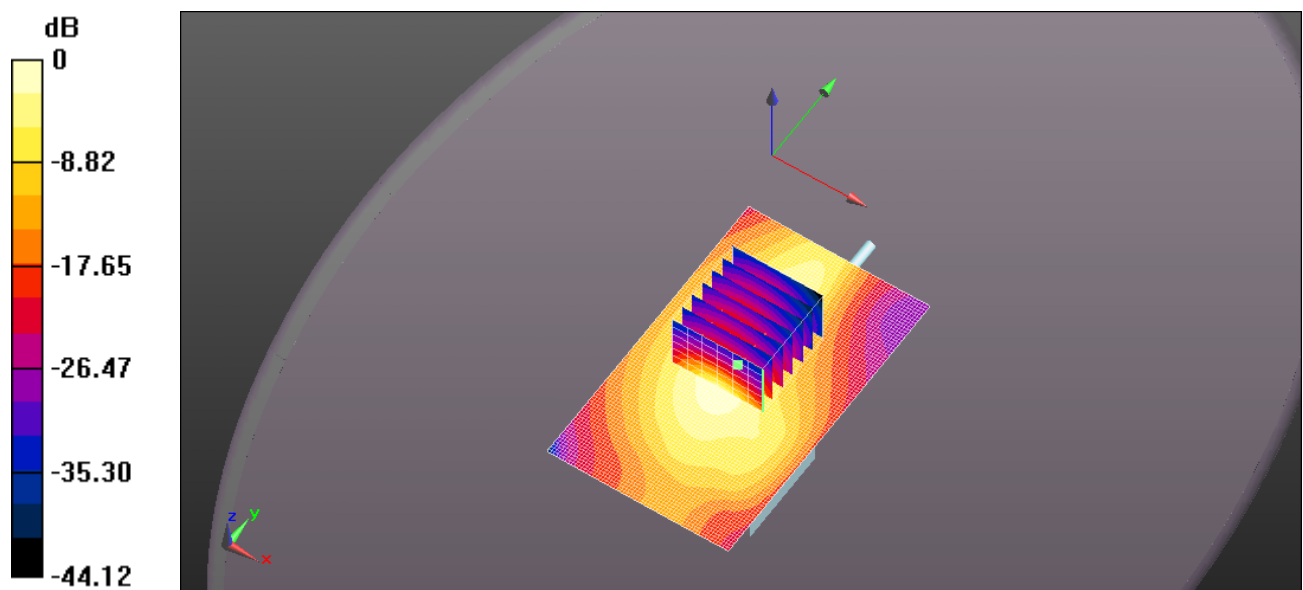
**Configuration\_Body\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.209 V/m; Power Drift = 0.44 dB

Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.559 W/kg; SAR(10 g) = 0.324 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.703 W/kg



0 dB = 0.891 W/kg = -0.50 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 Incognito 545MHz 100mW Back-10395.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 10395**

Communication System: UID 0, CW (0); Frequency: 545 MHz; Duty Cycle: 1:1  
Medium parameters used (extrapolated):  $f = 545 \text{ MHz}$ ;  $\sigma = 0.991 \text{ S/m}$ ;  $\epsilon_r = 56.57$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) =  $0.999 \text{ W/kg}$

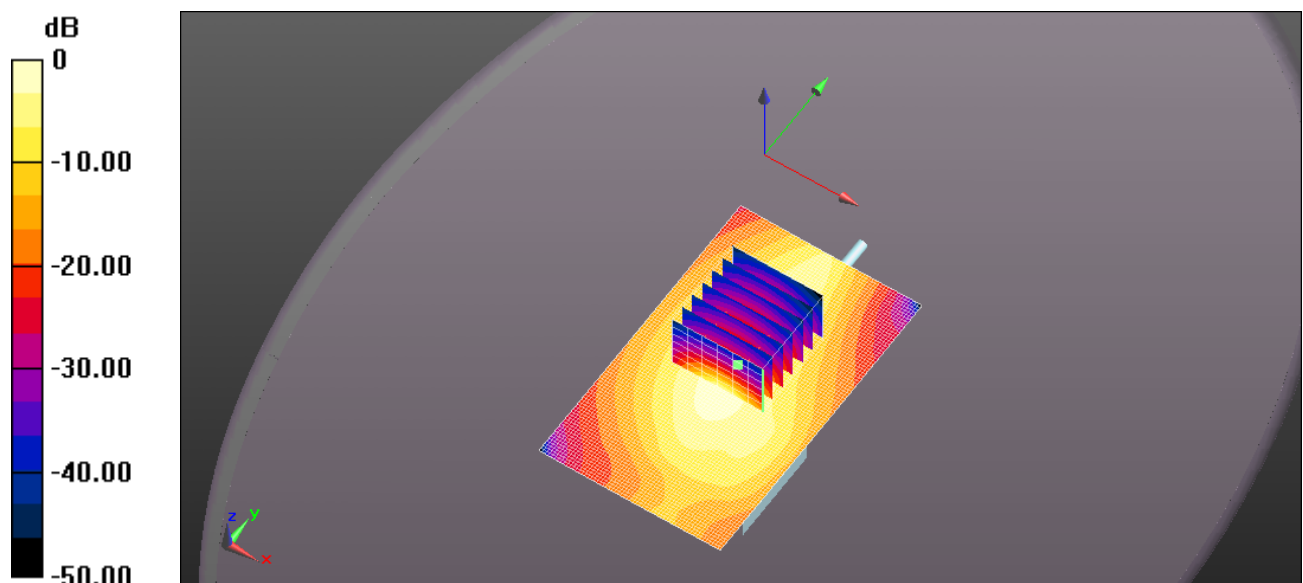
**Configuration\_Body\_Q5X QT-5100 Incognito Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $10.93 \text{ V/m}$ ; Power Drift =  $0.16 \text{ dB}$

Peak SAR (extrapolated) =  $1.02 \text{ W/kg}$

**SAR(1 g) =  $0.560 \text{ W/kg}$ ; SAR(10 g) =  $0.329 \text{ W/kg}$**  (SAR corrected for target medium)

Maximum value of SAR (measured) =  $0.717 \text{ W/kg}$



0 dB =  $0.999 \text{ W/kg}$  =  $-0.01 \text{ dBW/kg}$

**Wireless Microphone Audio Transmitter, M/N:QT-5100A**

					Device Back Facing Phantom ( Required Mounting Per User Manual)			Device Front Facing Phantom (Least antenna separation distance)		
Device Model	Device S/N	Channel	Frequency (MHz)	Power (dBm)	Power Drift (dB)	Measured BODY		Power Drift (dB)	Measured BODY	
						SAR1g (mW/g)	SAR10g (mW/g)		SAR1g (mW/g)	SAR10g (mW/g)
QT-5100 BELTMIC 100mW	20274	1	470	19.85	0.000	0.376	0.236	0.120	1.070	0.632
		2	489	19.96				0.200	0.752	0.441
		3	508	16.97				0.180	0.565	0.332
		4	526	19.91				0.190	0.556	0.330
		5	545	20.01				0.190	0.518	0.307

Test Laboratory: Ultratech Group of Labs

**File Name:** [Q5X-064Q QT-5100 BeltMic 470MHz, 100mW Front-20274.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20274**

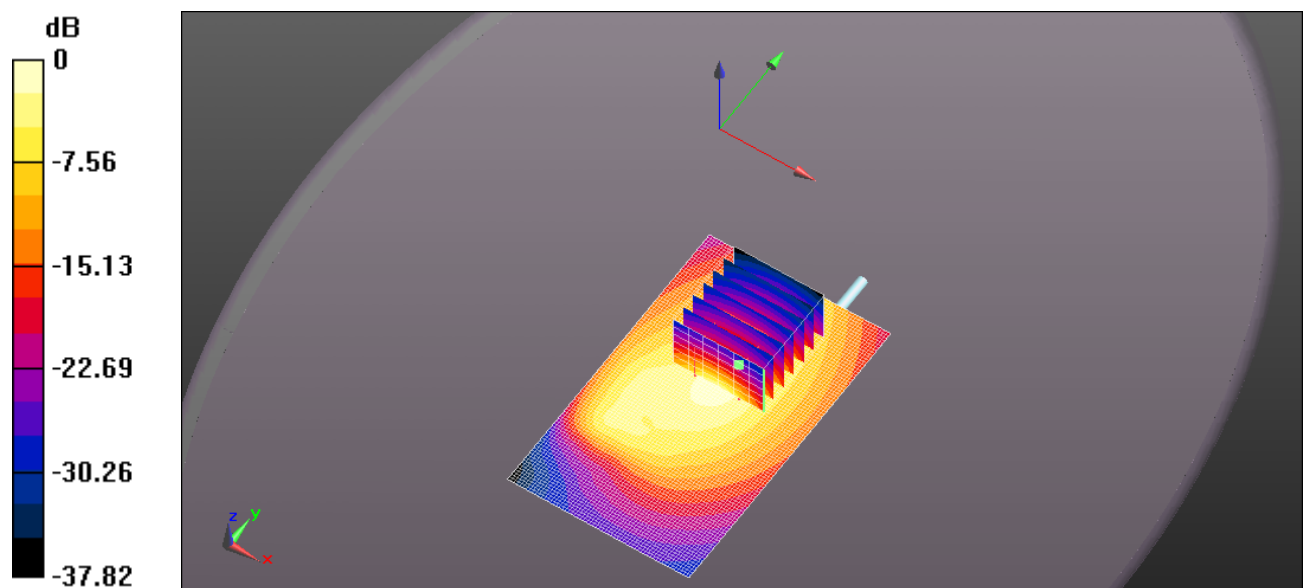
Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 470 \text{ MHz}$ ;  $\sigma = 0.929 \text{ S/m}$ ;  $\epsilon_r = 57.603$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 BeltMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 1.87 W/kg

**Configuration\_Body\_Q5X QT-5100 BeltMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 27.80 V/m; Power Drift = 0.12 dB  
Peak SAR (extrapolated) = 1.92 W/kg  
**SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.632 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (measured) = 1.30 W/kg



0 dB = 1.87 W/kg = 2.73 dBW/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 BeltMic 470MHz 100mW Back-20274.da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20274

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 57.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 BeltMic Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.700 W/kg

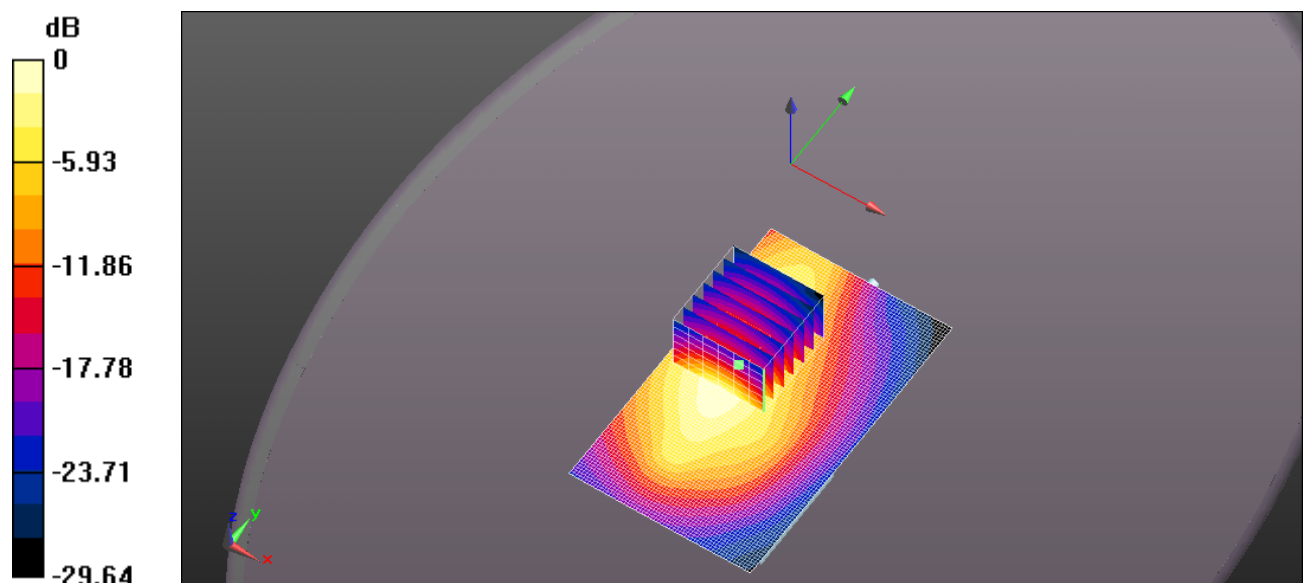
**Configuration\_Body\_Q5X QT-5100 BeltMic Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.608 V/m; Power Drift = -0.46 dB

Peak SAR (extrapolated) = 0.596 W/kg

**SAR(1 g) = 0.376 W/kg; SAR(10 g) = 0.236 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.438 W/kg



0 dB = 0.700 W/kg = -1.55 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 BeltMic 489MHz 100mW Front-20274.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20274**

Communication System: UID 0, CW (0); Frequency: 489 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 489$  MHz;  $\sigma = 0.943$  S/m;  $\epsilon_r = 57.254$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 BeltMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.30 W/kg

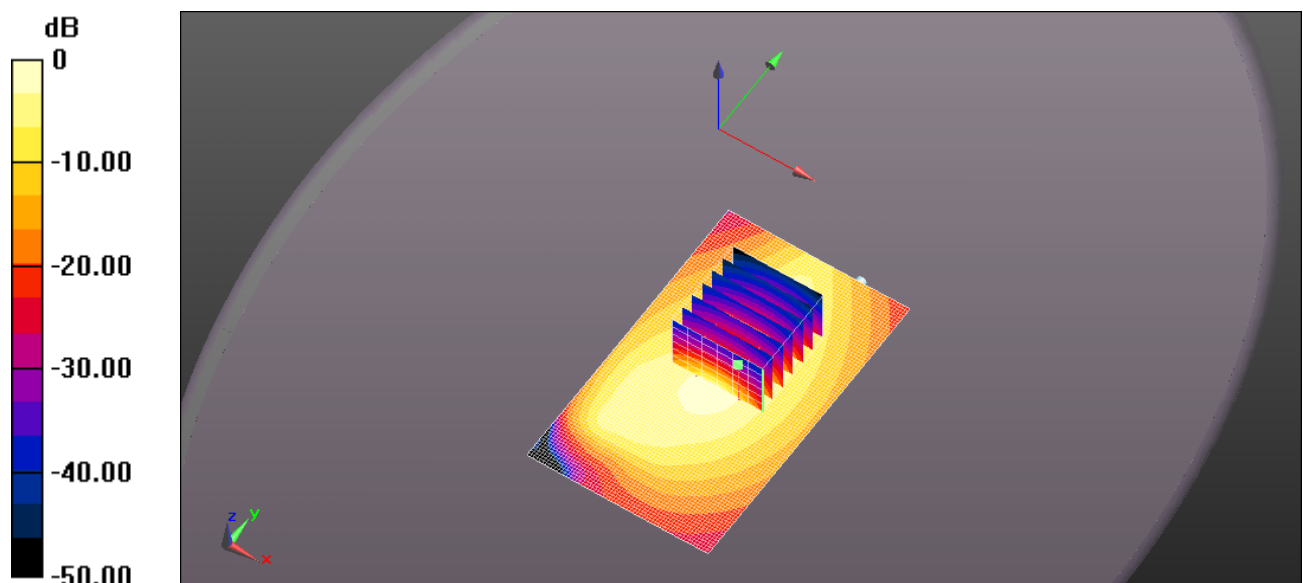
**Configuration\_Body\_Q5X QT-5100 BeltMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 23.32 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 1.36 W/kg

**SAR(1 g) = 0.752 W/kg; SAR(10 g) = 0.441 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.929 W/kg



0 dB = 1.30 W/kg = 1.15 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 BeltMic 508MHz 100mW Front-20274.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20274**

Communication System: UID 0, CW (0); Frequency: 508 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 508 \text{ MHz}$ ;  $\sigma = 0.958 \text{ S/m}$ ;  $\epsilon_r = 56.963$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 BeltMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) =  $0.974 \text{ W/kg}$

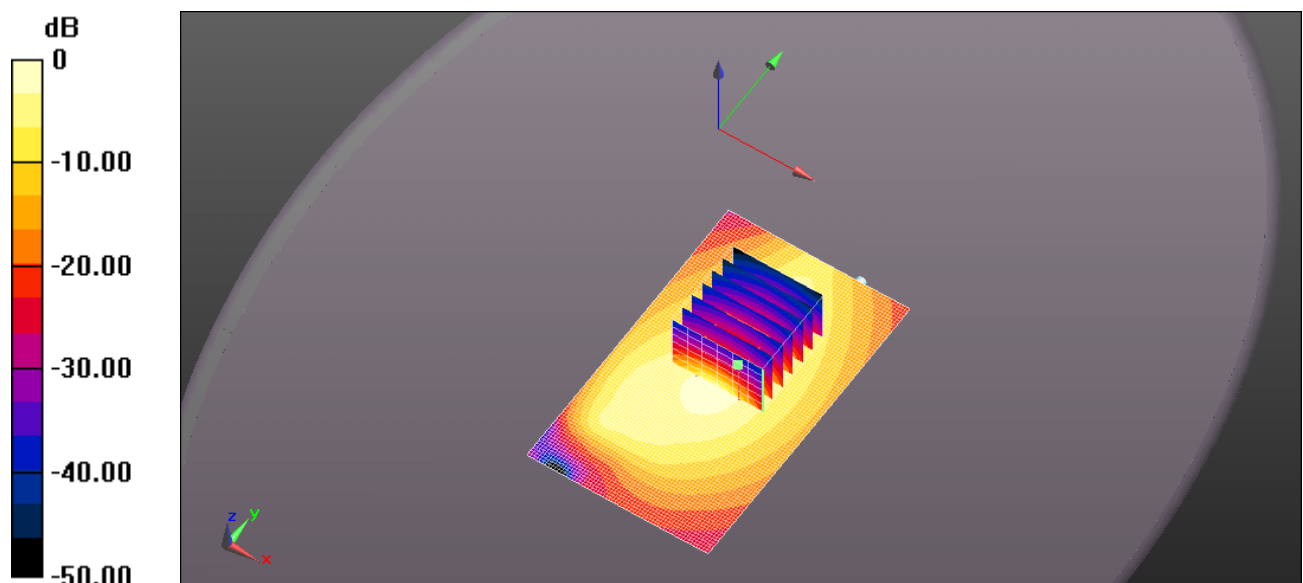
**Configuration\_Body\_Q5X QT-5100 BeltMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $20.01 \text{ V/m}$ ; Power Drift =  $0.18 \text{ dB}$

Peak SAR (extrapolated) =  $1.02 \text{ W/kg}$

**SAR(1 g) =  $0.565 \text{ W/kg}$ ; SAR(10 g) =  $0.332 \text{ W/kg}$**  (SAR corrected for target medium)

Maximum value of SAR (measured) =  $0.703 \text{ W/kg}$



0 dB =  $0.974 \text{ W/kg}$  =  $-0.12 \text{ dBW/kg}$

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 BeltMic 526MHz 100mW Front-20274.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20274**

Communication System: UID 0, CW (0); Frequency: 526 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 526$  MHz;  $\sigma = 0.975$  S/m;  $\epsilon_r = 56.757$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 BeltMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.931 W/kg

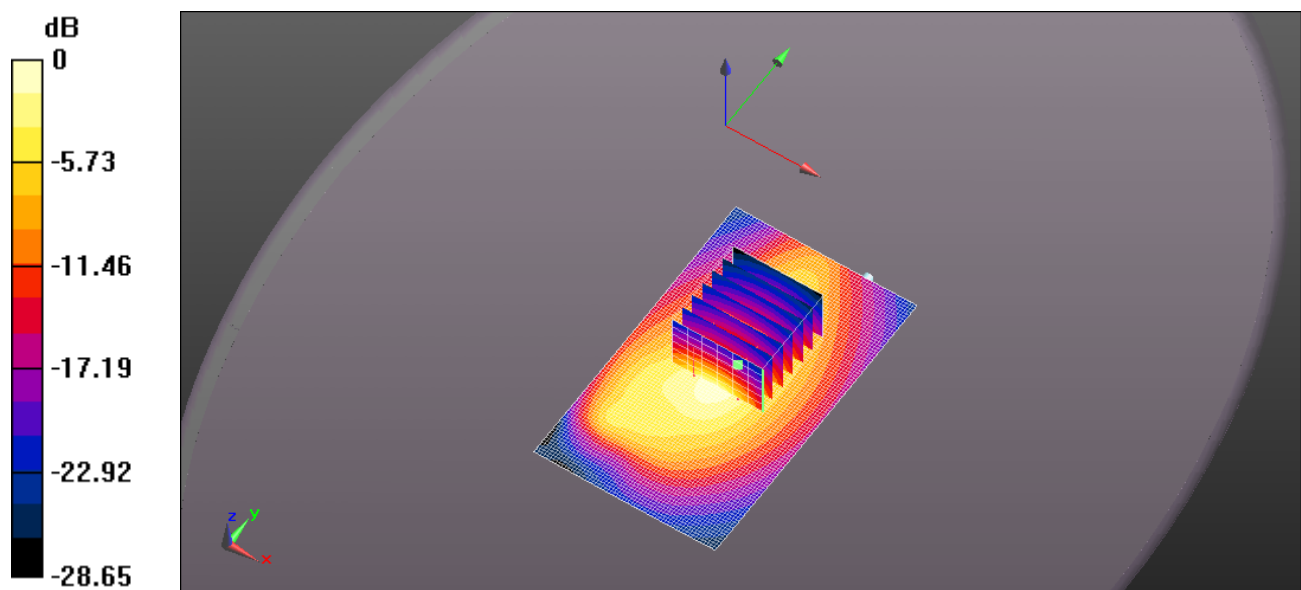
**Configuration\_Body\_Q5X QT-5100 BeltMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 18.37 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.00 W/kg

**SAR(1 g) = 0.556 W/kg; SAR(10 g) = 0.330 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.686 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 BeltMic 545MHz 100mW Front-20274.da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20274

Communication System: UID 0, CW (0); Frequency: 545 MHz; Duty Cycle: 1:1  
Medium parameters used (extrapolated):  $f = 545$  MHz;  $\sigma = 0.991$  S/m;  $\epsilon_r = 56.57$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 BeltMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.875 W/kg

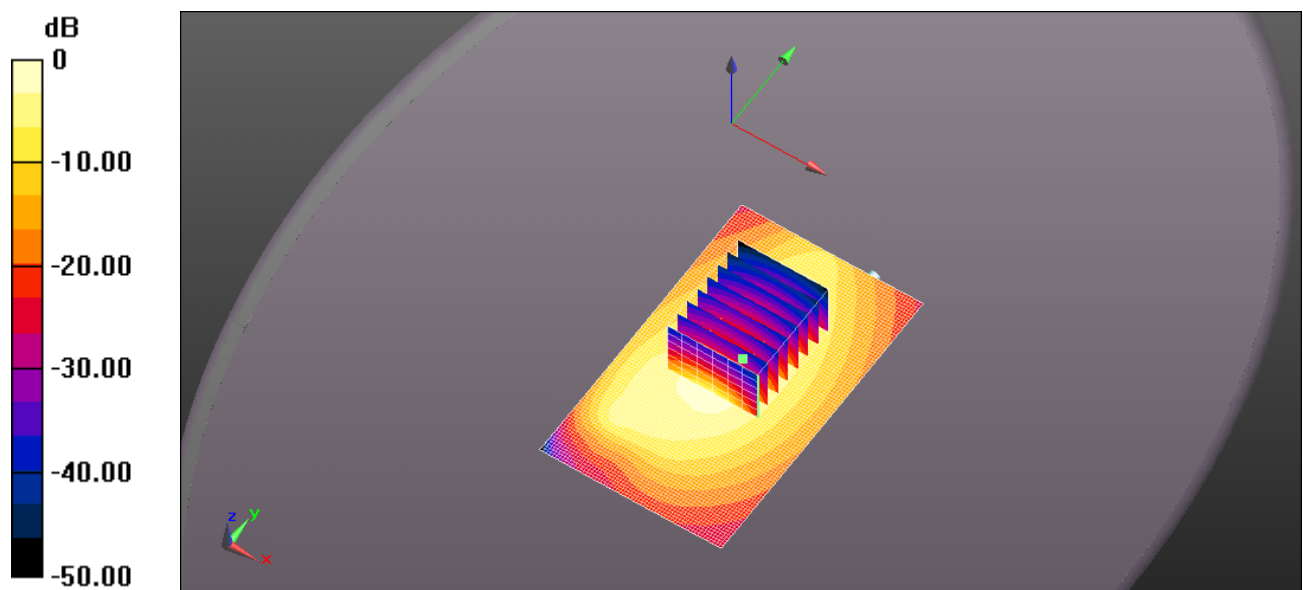
**Configuration\_Body\_Q5X QT-5100 BeltMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x8x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.35 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.951 W/kg

**SAR(1 g) = 0.518 W/kg; SAR(10 g) = 0.307 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.658 W/kg



0 dB = 0.875 W/kg = -0.58 dBW/kg

Wireless Microphone Audio Transmitter, M/N:QT-5100A

					Device Back Facing Phantom ( Required Mounting Per User Manual)			Device Front Facing Phantom (Least antenna separation distance)		
Device Model	Device S/N	Channel	Frequency (MHz)	Power (dBm)	Power Drift (dB)	Measured BODY		Power Drift (dB)	Measured BODY	
						SAR1g (mW/g)	SAR10g (mW/g)		SAR1g (mW/g)	SAR10g (mW/g)
QT-5100 REFMIC 100mW	20268	1	470	20.12	0.070	0.768	0.484	0.130	0.941	0.561
		2	489	19.93				0.140	0.567	0.337
		3	508	20.16				0.140	0.521	0.317
		4	526	20.01				0.180	0.460	0.281
		5	545	19.84				0.210	0.390	0.238

Test Laboratory: Ultratech Group of Labs

**File Name:** [Q5X-064Q\\_OT-5100\\_RefMic\\_470MHz\\_100mW\\_Front-20268.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20268**

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 57.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 RefMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.58 W/kg

**Configuration\_Body\_Q5X QT-5100 RefMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm,

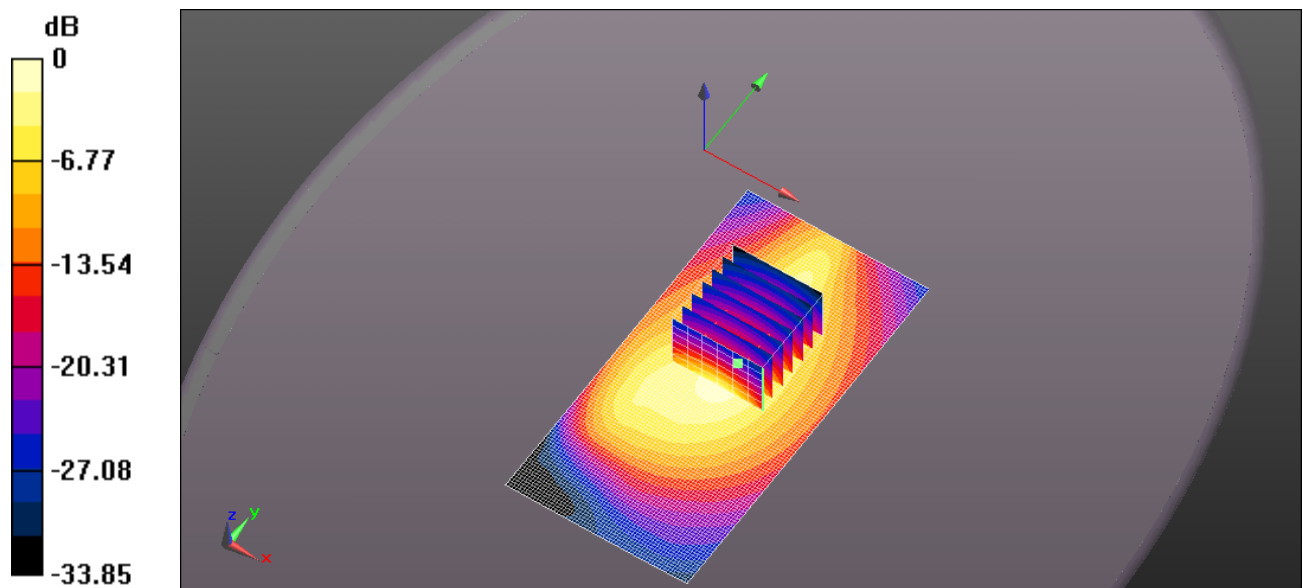
dz=5mm

Reference Value = 23.19 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.66 W/kg

**SAR(1 g) = 0.941 W/kg; SAR(10 g) = 0.561 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.15 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 RefMic 470MHz 100mW Back-20268-2.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20268**

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 57.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 RefMic Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.22 W/kg

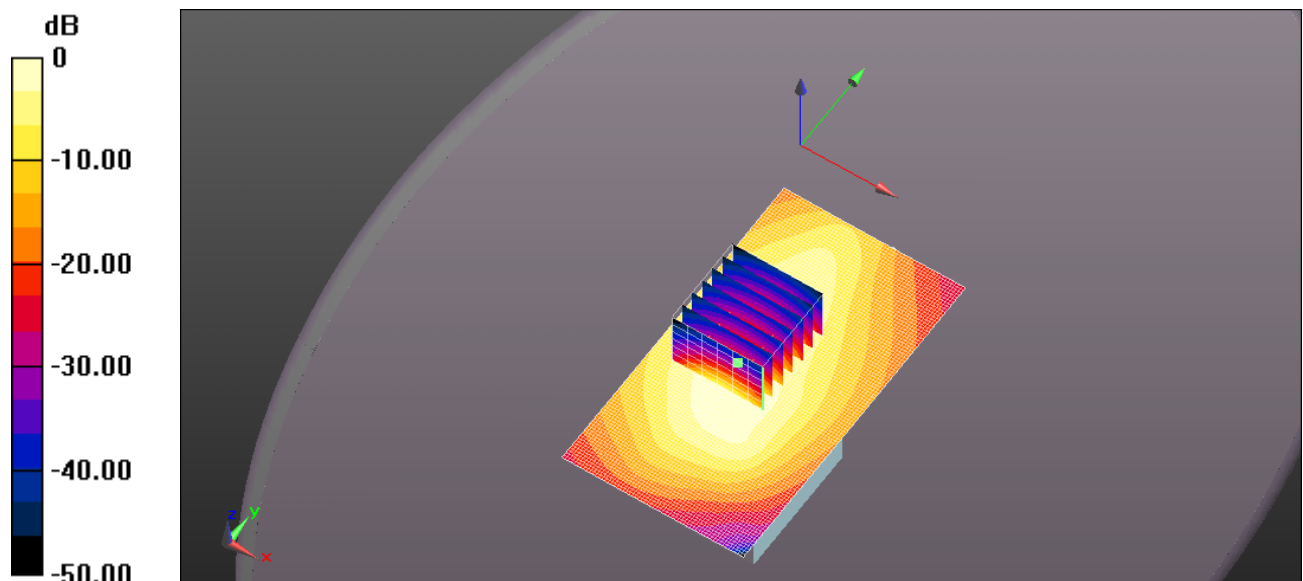
**Configuration\_Body\_Q5X QT-5100 RefMic Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.625 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.768 W/kg; SAR(10 g) = 0.484 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.914 W/kg





Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 RefMic 489MHz 100mW Front-20268.da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20268

Communication System: UID 0, CW (0); Frequency: 489 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 489$  MHz;  $\sigma = 0.943$  S/m;  $\epsilon_r = 57.254$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 RefMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.967 W/kg

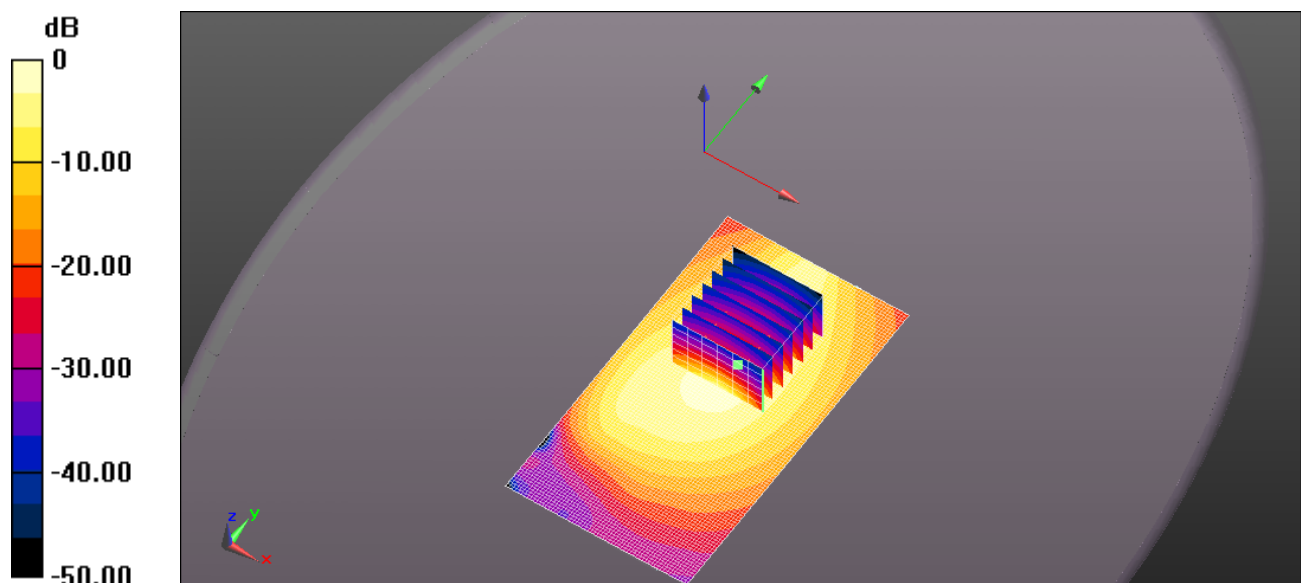
**Configuration\_Body\_Q5X QT-5100 RefMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.85 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.01 W/kg

**SAR(1 g) = 0.567 W/kg; SAR(10 g) = 0.337 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.702 W/kg



0 dB = 0.967 W/kg = -0.15 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 RefMic 508MHz 100mW Front-20268.da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20268

Communication System: UID 0, CW (0); Frequency: 508 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 508$  MHz;  $\sigma = 0.958$  S/m;  $\epsilon_r = 56.963$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 RefMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.884 W/kg

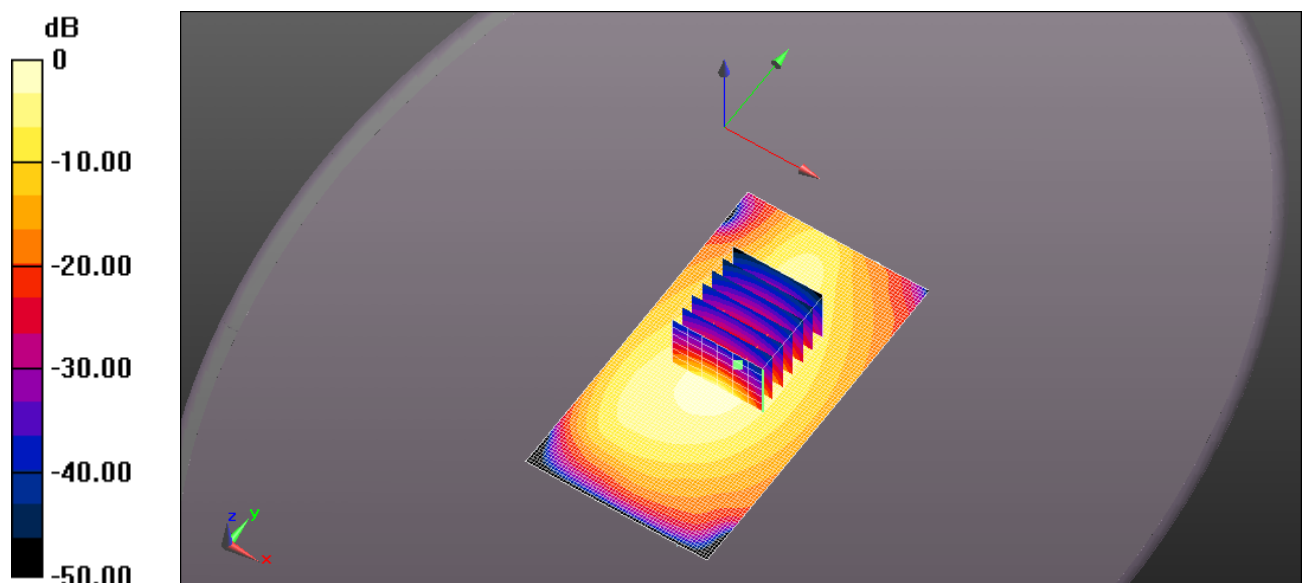
**Configuration\_Body\_Q5X QT-5100 RefMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 19.20 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.904 W/kg

**SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.317 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.642 W/kg



0 dB = 0.884 W/kg = -0.53 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 RefMic 526MHz 100mW Front-20268.da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20268

Communication System: UID 0, CW (0); Frequency: 526 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 526$  MHz;  $\sigma = 0.975$  S/m;  $\epsilon_r = 56.757$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 RefMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.770 W/kg

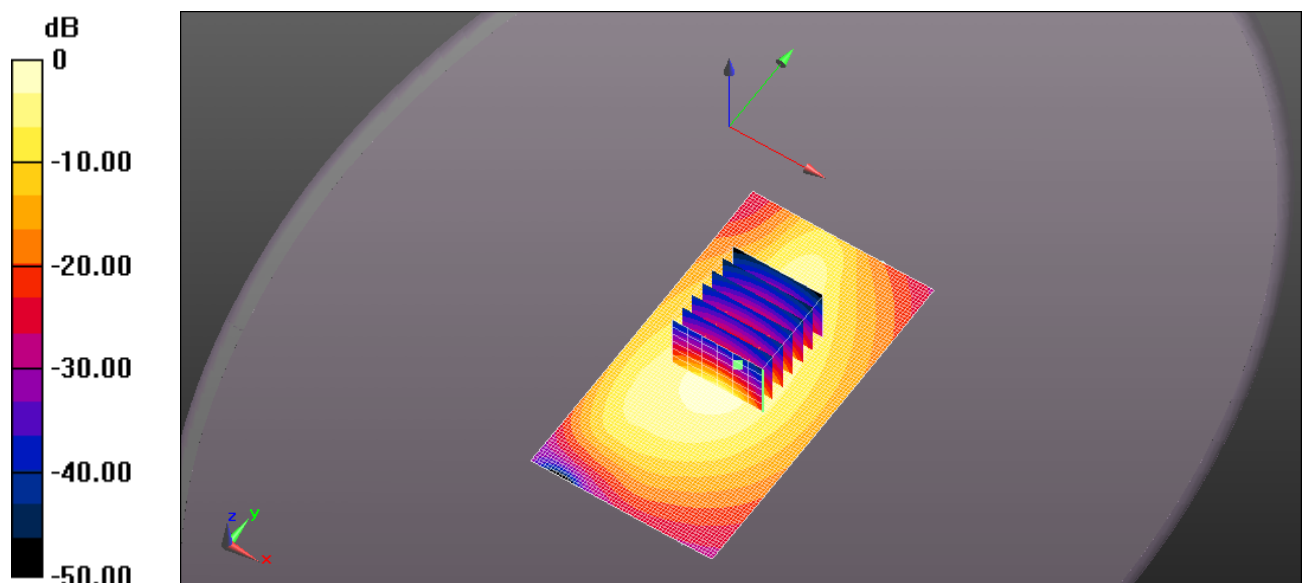
**Configuration\_Body\_Q5X QT-5100 RefMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.67 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.808 W/kg

**SAR(1 g) = 0.460 W/kg; SAR(10 g) = 0.281 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.576 W/kg



0 dB = 0.770 W/kg = -1.14 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 RefMic 545MHz 100mW Front-20268.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20268**

Communication System: UID 0, CW (0); Frequency: 545 MHz; Duty Cycle: 1:1  
Medium parameters used (extrapolated):  $f = 545 \text{ MHz}$ ;  $\sigma = 0.991 \text{ S/m}$ ;  $\epsilon_r = 56.57$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 RefMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x111x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) =  $0.661 \text{ W/kg}$

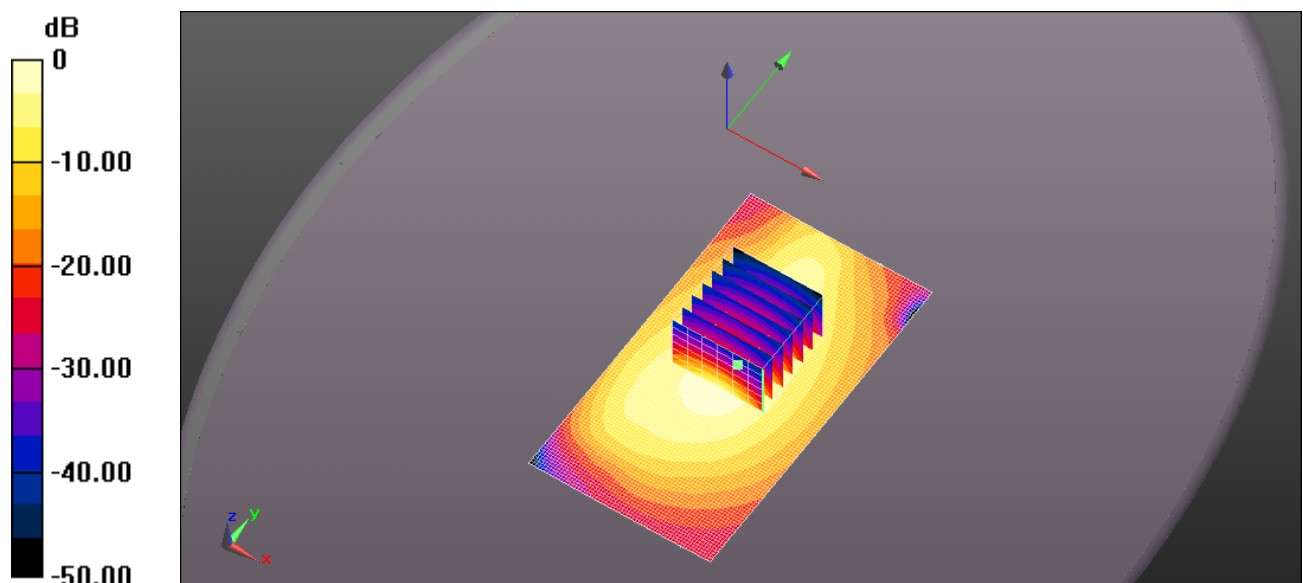
**Configuration\_Body\_Q5X QT-5100 RefMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $16.11 \text{ V/m}$ ; Power Drift =  $0.21 \text{ dB}$

Peak SAR (extrapolated) =  $0.697 \text{ W/kg}$

**SAR(1 g) =  $0.390 \text{ W/kg}$ ; SAR(10 g) =  $0.238 \text{ W/kg}$**  (SAR corrected for target medium)

Maximum value of SAR (measured) =  $0.496 \text{ W/kg}$



0 dB =  $0.661 \text{ W/kg}$  =  $-1.80 \text{ dBW/kg}$

**Wireless Microphone Audio Transmitter, M/N:QT-5100A**

					Device Back Facing Phantom ( Required Mounting Per User Manual)			Device Front Facing Phantom (Least antenna separation distance)		
Device Model	Device S/N	Channel	Frequency (MHz)	Power (dBm)	Power Drift (dB)	Measured BODY		Power Drift (dB)	Measured BODY	
						SAR1g (mW/g)	SAR10g (mW/g)		SAR1g (mW/g)	SAR10g (mW/g)
QT-5100 REFMICHHD 100mW	20271(250mW)	1	470	24.02				0.260	1.120	0.720
		2	489	24.03				0.340	0.979	0.635
		3	508	23.89				0.230	1.130	0.728
		4	526	23.80	0.130	0.686	0.436	0.130	1.290	0.841
		5	545	24.00	0.170	0.770	0.490	0.190	1.240	0.803

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 RefMicHD 470MHz 250mW Front-20271.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20271**

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 57.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat  
Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 RefMicHD Low Band 470-545MHz 250mW/Body Front, P=250mW, d=0mm/Area Scan (61x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.75 W/kg

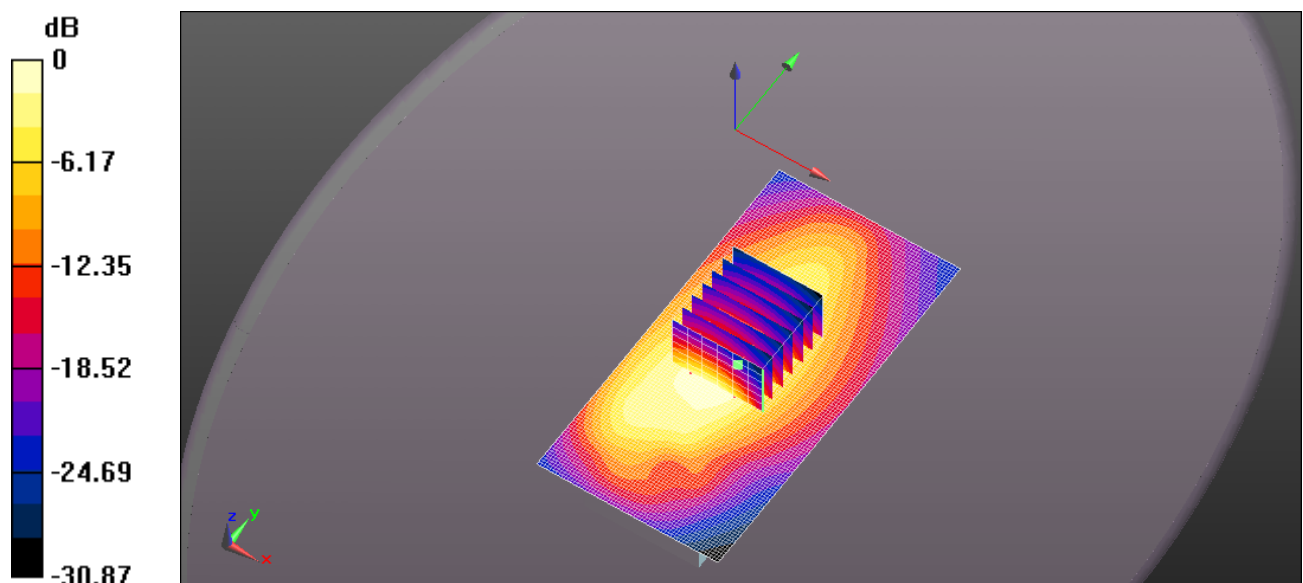
**Configuration\_Body\_Q5X QT-5100 RefMicHD Low Band 470-545MHz 250mW/Body Front, P=250mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 21.26 V/m; Power Drift = 0.26 dB

Peak SAR (extrapolated) = 1.77 W/kg

**SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.720 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.31 W/kg



0 dB = 1.75 W/kg = 2.42 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 RefMicHD 489MHz 250mW Front-20271.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20271**

Communication System: UID 0, CW (0); Frequency: 489 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 489$  MHz;  $\sigma = 0.943$  S/m;  $\epsilon_r = 57.254$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 RefMicHD Low Band 470-545MHz 250mW/Body Front, P=250mW, d=0mm/Area Scan (61x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.55 W/kg

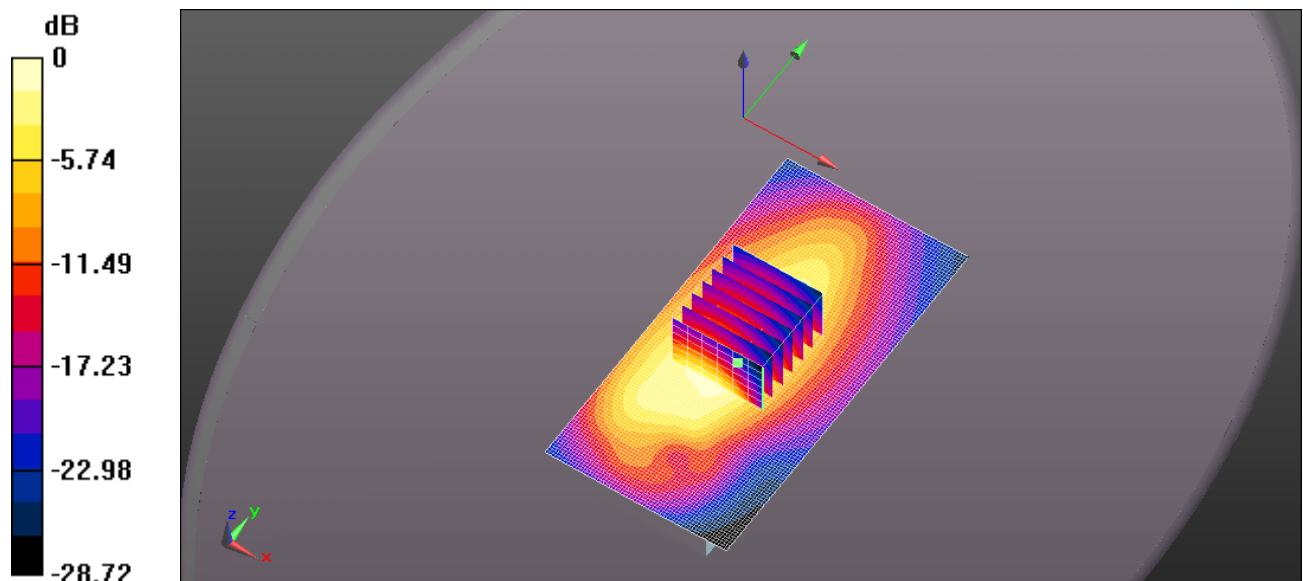
**Configuration\_Body\_Q5X QT-5100 RefMicHD Low Band 470-545MHz 250mW/Body Front, P=250mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.76 V/m; Power Drift = 0.34 dB

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.979 W/kg; SAR(10 g) = 0.635 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.55 W/kg = 1.91 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 RefMicHD 508MHz 250mW Front-20271.da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20271

Communication System: UID 0, CW (0); Frequency: 508 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 508$  MHz;  $\sigma = 0.958$  S/m;  $\epsilon_r = 56.963$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 RefMicHD Low Band 470-545MHz 250mW/Body Front, P=250mW, d=0mm/Area Scan (61x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.72 W/kg

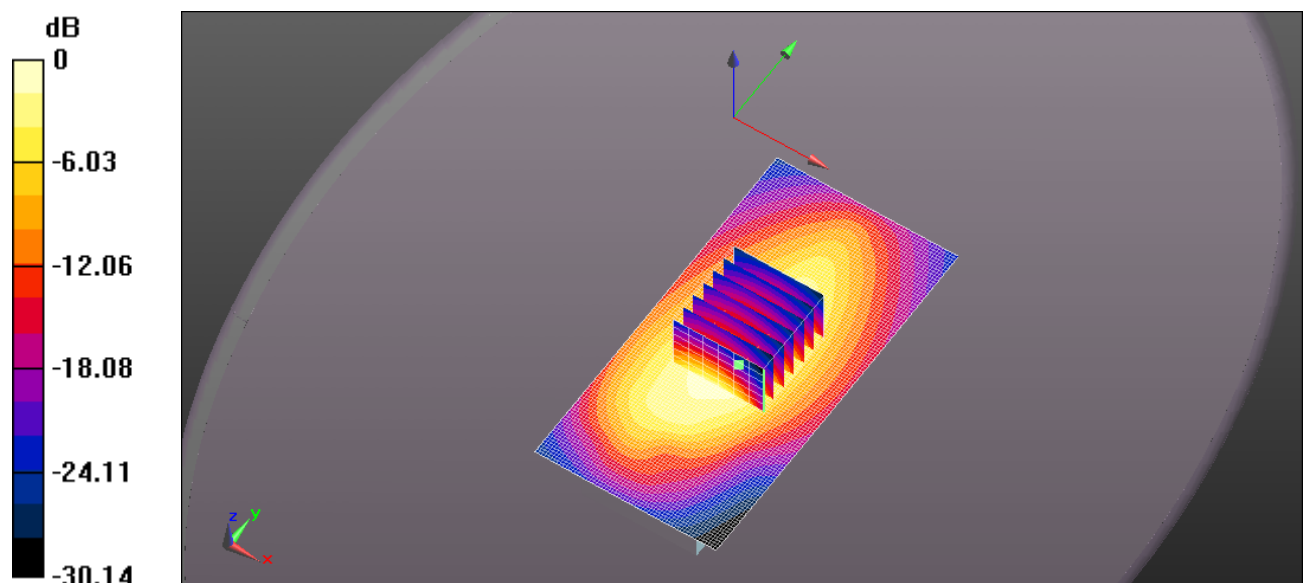
**Configuration\_Body\_Q5X QT-5100 RefMicHD Low Band 470-545MHz 250mW/Body Front, P=250mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 29.65 V/m; Power Drift = 0.23 dB

Peak SAR (extrapolated) = 1.79 W/kg

**SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.728 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.34 W/kg



0 dB = 1.72 W/kg = 2.35 dBW/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 RefMicHD 526MHz 250mW Front-20271.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20271**

Communication System: UID 0, CW (0); Frequency: 526 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 526$  MHz;  $\sigma = 0.975$  S/m;  $\epsilon_r = 56.757$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 RefMicHD Low Band 470-545MHz 250mW/Body Front, P=250mW, d=0mm/Area Scan (61x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.93 W/kg

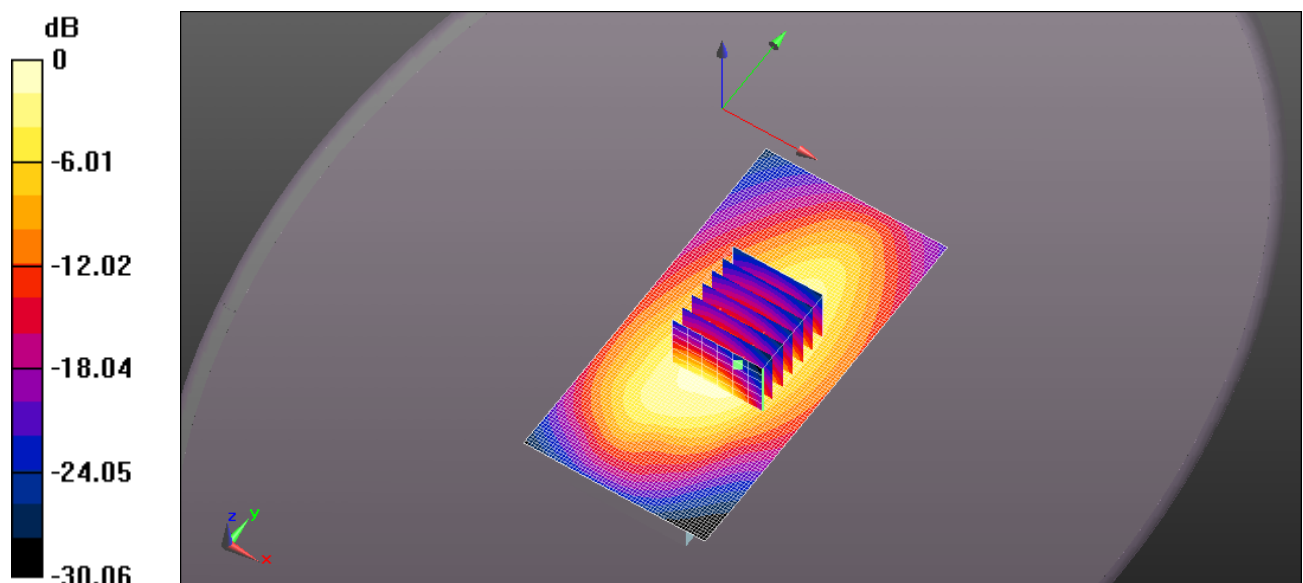
**Configuration\_Body\_Q5X QT-5100 RefMicHD Low Band 470-545MHz 250mW/Body Front, P=250mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 38.42 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 2.06 W/kg

**SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.841 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.93 W/kg = 2.86 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 RefMicHD 526MHz 250mW Back-20271.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20271**

Communication System: UID 0, CW (0); Frequency: 526 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 526$  MHz;  $\sigma = 0.975$  S/m;  $\epsilon_r = 56.757$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 RefMicHD Low Band 470-545MHz 250mW/Body Back, P=250mW, d=0mm/Area Scan (71x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.12 W/kg

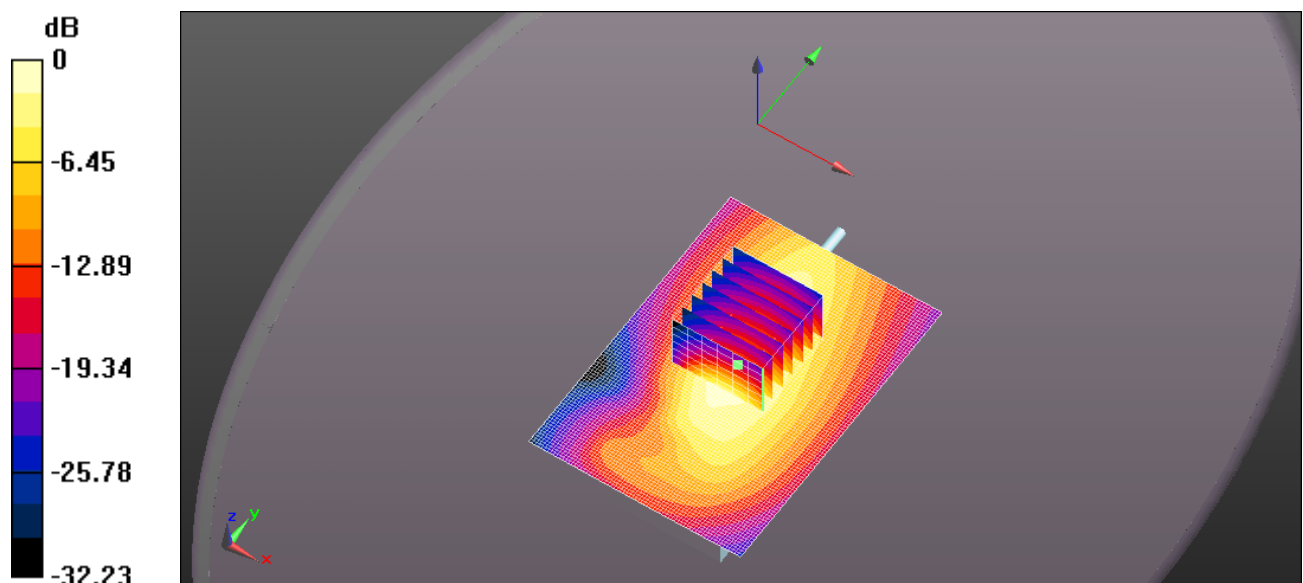
**Configuration\_Body\_Q5X QT-5100 RefMicHD Low Band 470-545MHz 250mW/Body Back, P=250mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 20.01 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.686 W/kg; SAR(10 g) = 0.436 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.835 W/kg



0 dB = 1.12 W/kg = 0.51 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 RefMicHD 545MHz 250mW Front-20271.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20271**

Communication System: UID 0, CW (0); Frequency: 545 MHz; Duty Cycle: 1:1  
Medium parameters used (extrapolated):  $f = 545 \text{ MHz}$ ;  $\sigma = 0.991 \text{ S/m}$ ;  $\epsilon_r = 56.57$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom section: Flat Section; Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 RefMicHD Low Band 470-545MHz 250mW/Body Front, P=250mW, d=0mm/Area Scan (61x121x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 1.88 W/kg

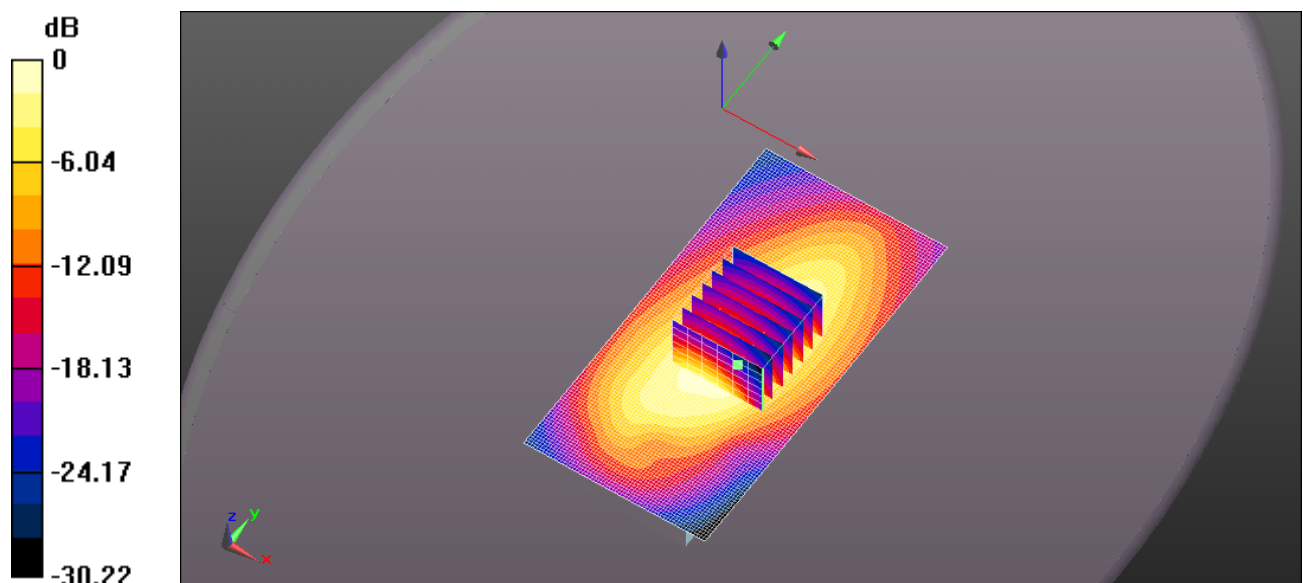
**Configuration\_Body\_Q5X QT-5100 RefMicHD Low Band 470-545MHz 250mW/Body Front, P=250mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 37.10 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 2.01 W/kg

**SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.803 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.51 W/kg



0 dB = 1.88 W/kg = 2.74 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 RefMicHD 545MHz 250mW Back-20271.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20271**

Communication System: UID 0, CW (0); Frequency: 545 MHz; Duty Cycle: 1:1  
Medium parameters used (extrapolated):  $f = 545 \text{ MHz}$ ;  $\sigma = 0.991 \text{ S/m}$ ;  $\epsilon_r = 56.57$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom section: Flat Section; Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 RefMicHD Low Band 470-545MHz 250mW/Body Back, P=250mW, d=0mm/Area Scan (71x101x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 1.26 W/kg

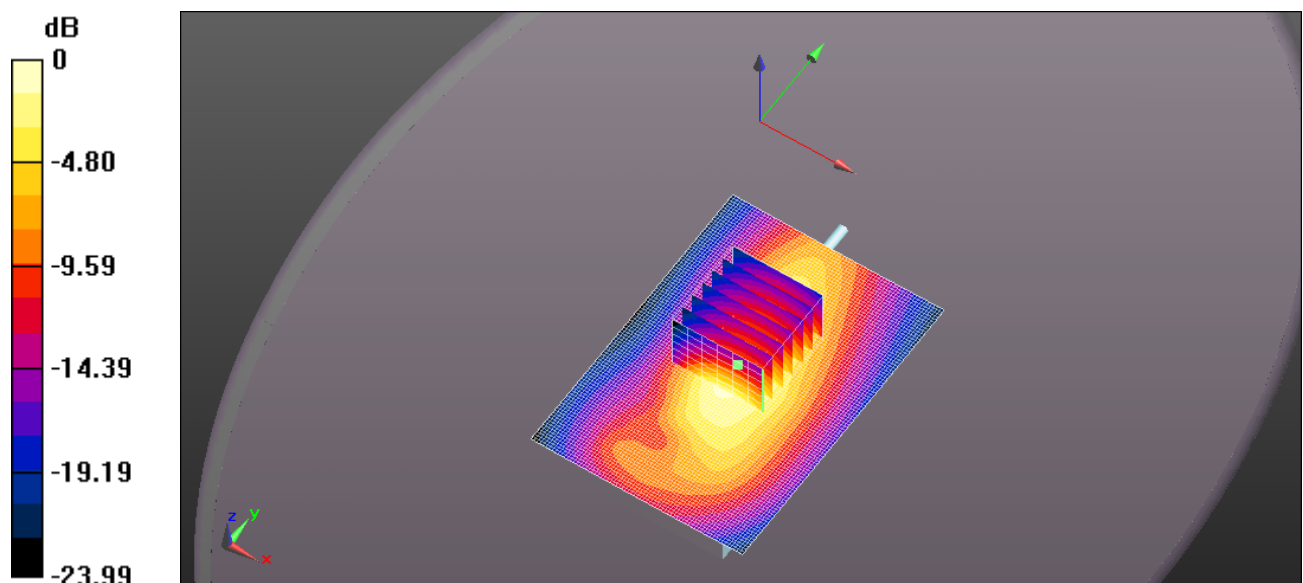
**Configuration\_Body\_Q5X QT-5100 RefMicHD Low Band 470-545MHz 250mW/Body Back, P=250mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 21.32 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.27 W/kg

**SAR(1 g) = 0.770 W/kg; SAR(10 g) = 0.490 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.948 W/kg



0 dB = 1.26 W/kg = 1.02 dBW/kg

**Wireless Microphone Audio Transmitter, M/N:QT-5100A**

					Device Back Facing Phantom ( Required Mounting Per User Manual)			Device Front Facing Phantom (Least antenna separation distance)		
Device Model	Device S/N	Channel	Frequency (MHz)	Power (dBm)	Power Drift (dB)	Measured BODY		Power Drift (dB)	Measured BODY	
						SAR1g (mW/g)	SAR10g (mW/g)		SAR1g (mW/g)	SAR10g (mW/g)
QT-5100 AquaMic 100mW	20300	1	470	19.96	0.210	0.892	0.574	0.190	0.944	0.565
		2	489	20.08				0.230	0.816	0.473
		3	508	19.94				0.220	0.678	0.398
		4	526	20.03				0.230	0.637	0.376
		5	545	19.95				0.260	0.626	0.370

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q\\_OT-5100\\_AquaMic\\_470MHz\\_100mW\\_Front-20300.da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20300

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 57.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 AquaMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.56 W/kg

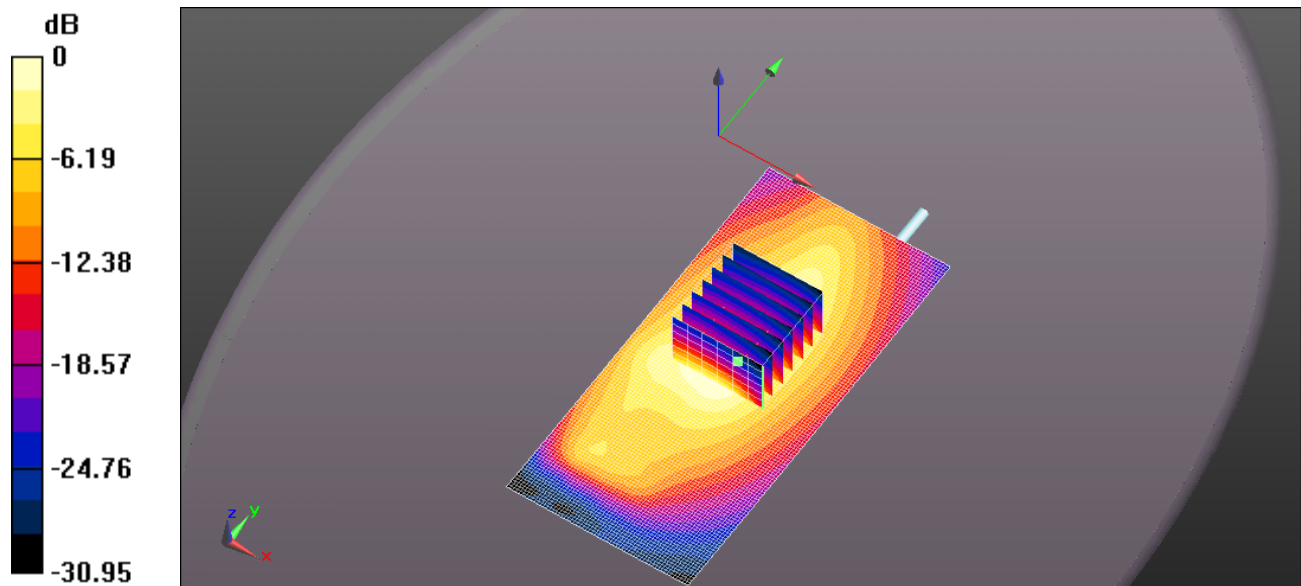
**Configuration\_Body\_Q5X QT-5100 AquaMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.55 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.69 W/kg

**SAR(1 g) = 0.944 W/kg; SAR(10 g) = 0.565 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.56 W/kg = 1.92 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 AquaMic 470MHz 100mW Back-20300.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20300**

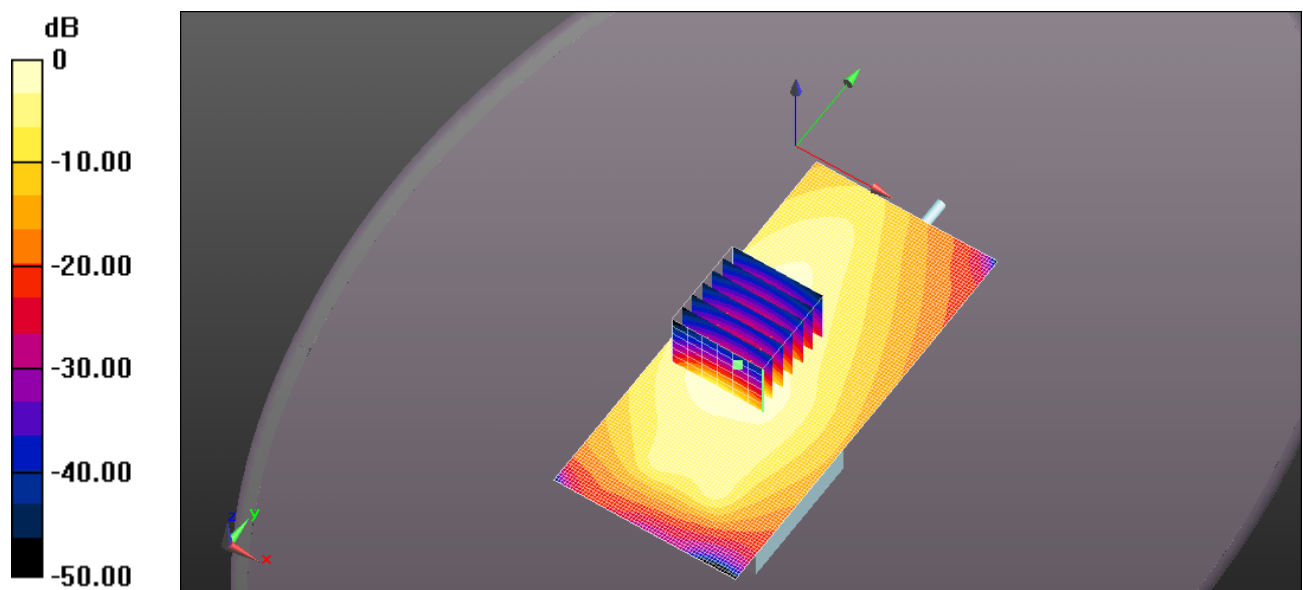
Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 57.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 AquaMic Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (61x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.28 W/kg

**Configuration\_Body\_Q5X QT-5100 AquaMic Low Band 470-545MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 12.79 V/m; Power Drift = 0.21 dB  
Peak SAR (extrapolated) = 1.45 W/kg  
**SAR(1 g) = 0.892 W/kg; SAR(10 g) = 0.574 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.28 W/kg = 1.06 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 AquaMic 489MHz, 100mW Front-20300.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20300**

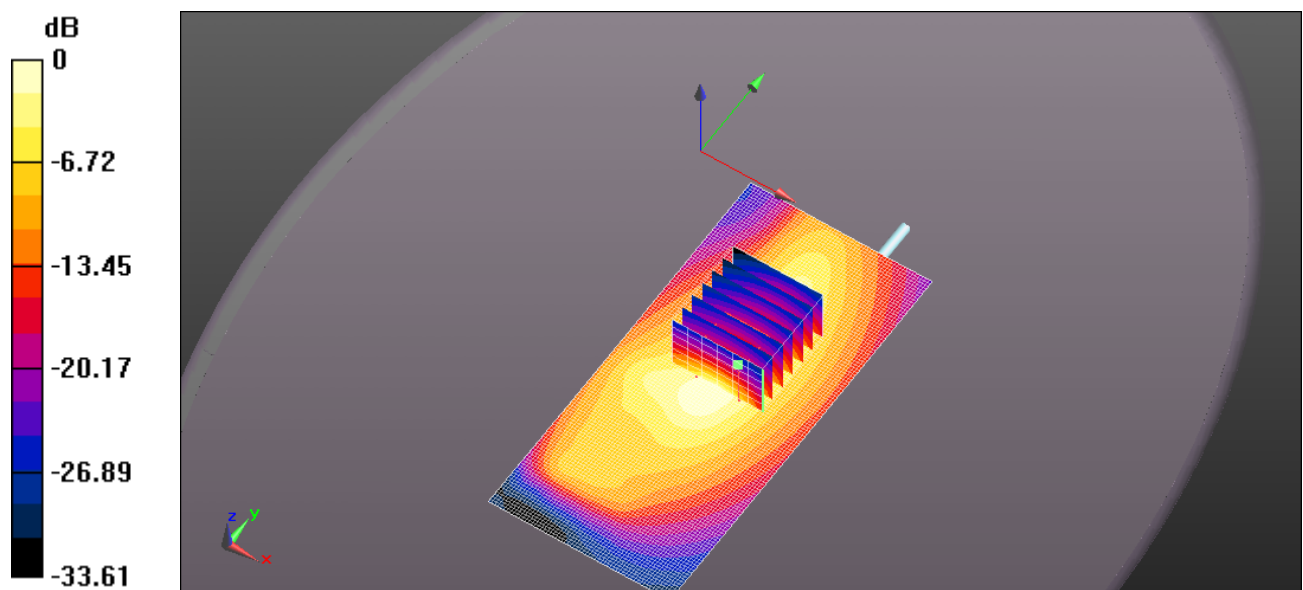
Communication System: UID 0, CW (0); Frequency: 489 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 489$  MHz;  $\sigma = 0.943$  S/m;  $\epsilon_r = 57.254$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 AquaMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.36 W/kg

**Configuration\_Body\_Q5X QT-5100 AquaMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 21.27 V/m; Power Drift = 0.23 dB  
Peak SAR (extrapolated) = 1.49 W/kg  
**SAR(1 g) = 0.816 W/kg; SAR(10 g) = 0.473 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (measured) = 1.00 W/kg



0 dB = 1.36 W/kg = 1.35 dBW/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 AquaMic 508MHz, 100mW Front-20300.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20300**

Communication System: UID 0, CW (0); Frequency: 508 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 508 \text{ MHz}$ ;  $\sigma = 0.958 \text{ S/m}$ ;  $\epsilon_r = 56.963$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom section: Flat Section; Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS5 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 AquaMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 1.12 W/kg

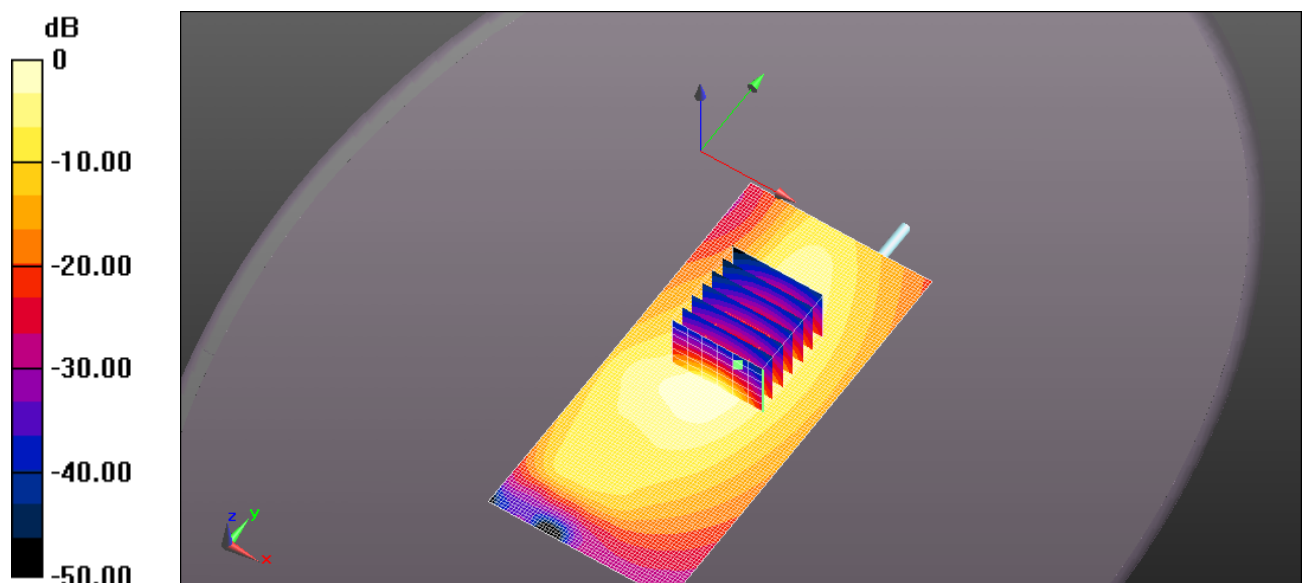
**Configuration\_Body\_Q5X QT-5100 AquaMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 19.13 V/m; Power Drift = 0.22 dB

Peak SAR (extrapolated) = 1.22 W/kg

**SAR(1 g) = 0.678 W/kg; SAR(10 g) = 0.398 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.832 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 AquaMic 526MHz 100mW Front-20300.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20300**

Communication System: UID 0, CW (0); Frequency: 526 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 526$  MHz;  $\sigma = 0.975$  S/m;  $\epsilon_r = 56.757$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 AquaMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.06 W/kg

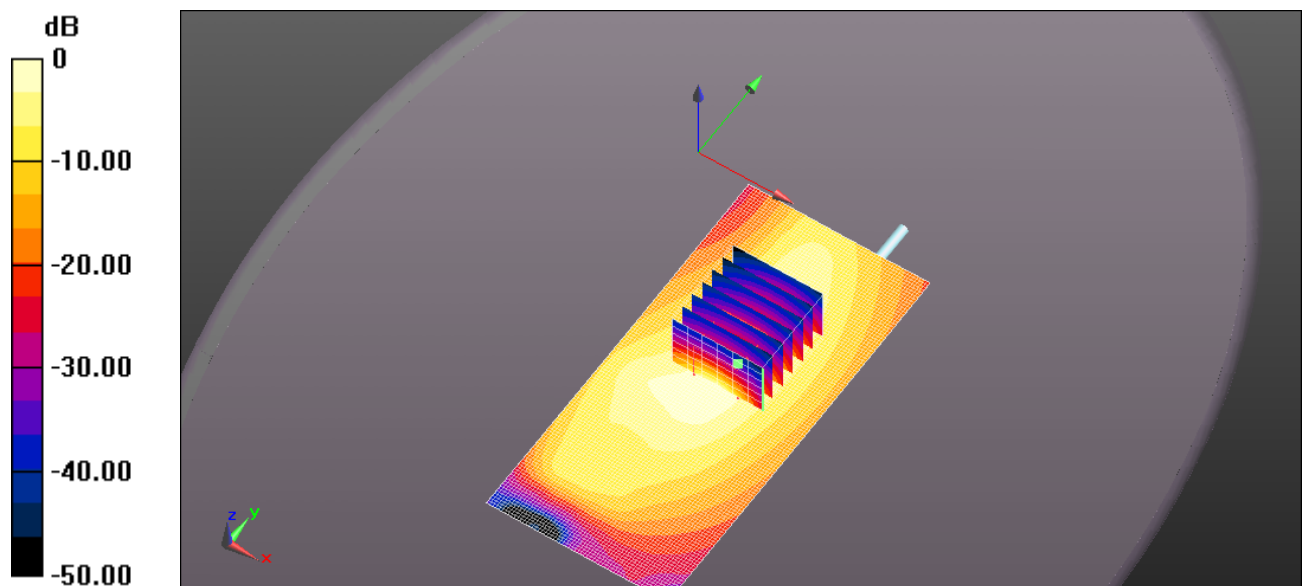
**Configuration\_Body\_Q5X QT-5100 AquaMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 18.22 V/m; Power Drift = 0.23 dB

Peak SAR (extrapolated) = 1.16 W/kg

**SAR(1 g) = 0.637 W/kg; SAR(10 g) = 0.376 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.791 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q OT-5100 AquaMic 545MHz, 100mW Front-20300.da52:0](#)

**DUT: QT-5100; Type: UHF Transmitter; Serial: 20300**

Communication System: UID 0, CW (0); Frequency: 545 MHz; Duty Cycle: 1:1  
Medium parameters used (extrapolated):  $f = 545$  MHz;  $\sigma = 0.991$  S/m;  $\epsilon_r = 56.57$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_Q5X QT-5100 AquaMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.04 W/kg

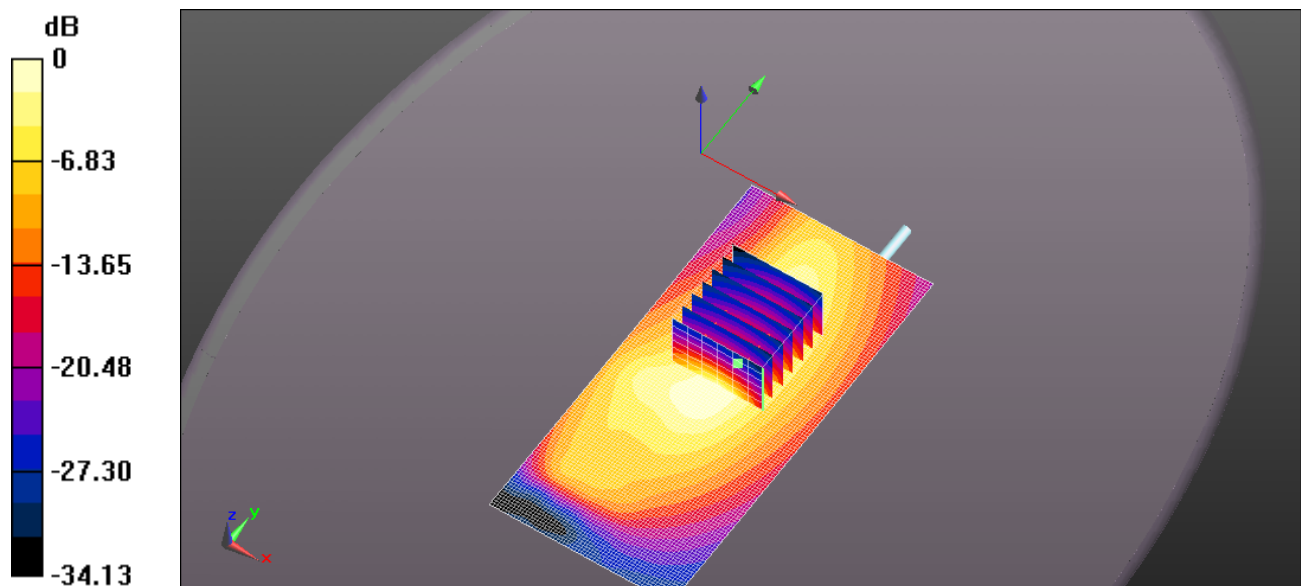
**Configuration\_Body\_Q5X QT-5100 AquaMic Low Band 470-545MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.65 V/m; Power Drift = 0.26 dB

Peak SAR (extrapolated) = 1.15 W/kg

**SAR(1 g) = 0.626 W/kg; SAR(10 g) = 0.370 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.800 W/kg



0 dB = 1.04 W/kg = 0.17 dBW/kg