

APPENDIX B Plots Of The SAR Measurements

Plots of the measured SAR distributions inside the phantom are given in this Appendix for all tested configurations. The spatial peak SAR values were assessed with the procedure described in this report.

Table: SAR Measurement Plot Numbers

Test Position	Plot No.	Test Channel
Face Frontal	1	1
	2	2
	3	3
Face Frontal 4-key version	4	2
Z-axis graphs for plots No. 1 to 4		
Face Frontal SPK/MIC	5	1
	6	2
	7	3
Z-axis graphs for plots No. 5 to 7		

Test Position	Plot No.	Test Channel
Belt Clip	8	1
	9	2
	10	3
Belt Clip 4-key version	11	2
Z-axis graphs for plots No. 8 to 11		
Polyester Pouch	12	1
Hard Leather Pouch	13	2
Soft Leather Pouch	14	3
Z-axis graphs for plots No. 12 to 14		
Belt Clip SPK/MIC	15	1
	16	2
	17	3
Z-axis graphs for plots No. 15 to 17		

Table: Validation Plot Numbers

Date	Plot Number	Frequency
24 th August 2007	18	450 MHz
25 th August 2007	19	450 MHz
Z-axis graphs for plots No. 18 to 19		



Test Date: 24 August 2007

File Name: 490 MHz Face Frontal (DAE442 Probe1380) 24-08-07.da4

DUT: Tait Handheld Transceiver; Type: TPC6A; Serial: 25001152

* Communication System: CW 490 MHz; Frequency: 450 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 0.840307$ mho/m, $\epsilon_r = 43.0988$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(7.04, 7.04, 7.04)

- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 1 Test/Area Scan (61x181x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 3.85 mW/g

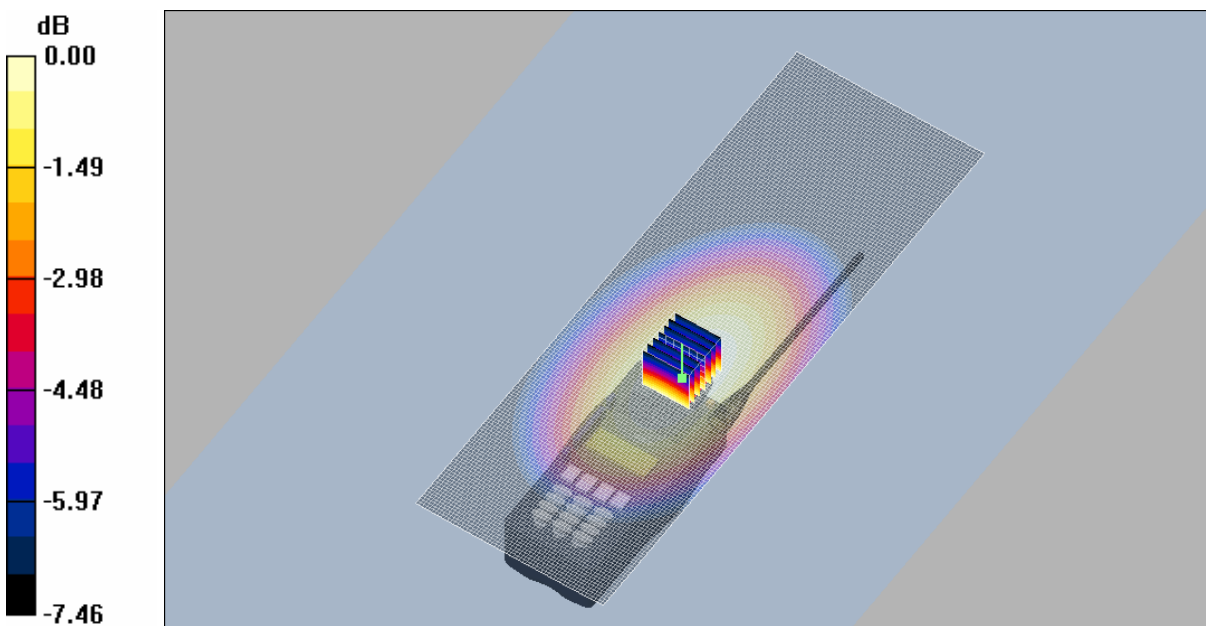
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.0 V/m; Power Drift = -0.359 dB

Peak SAR (extrapolated) = 4.67 W/kg

SAR(1 g) = 3.45 mW/g; SAR(10 g) = 2.57 mW/g

Maximum value of SAR (measured) = 3.61 mW/g



SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

22.2 Degrees Celsius
22.0 Degrees Celsius
41.0 %



Test Date: 24 August 2007

File Name: 490 MHz Face Frontal (DAE442 Probe1380) 24-08-07.da4

DUT: Tait Handheld Transceiver; Type: TPC6A; Serial: 25001152

* Communication System: CW 490 MHz; Frequency: 490 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 0.872694$ mho/m, $\epsilon_r = 42.1977$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(7.04, 7.04, 7.04)

- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 2 Test/Area Scan (61x181x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 5.53 mW/g

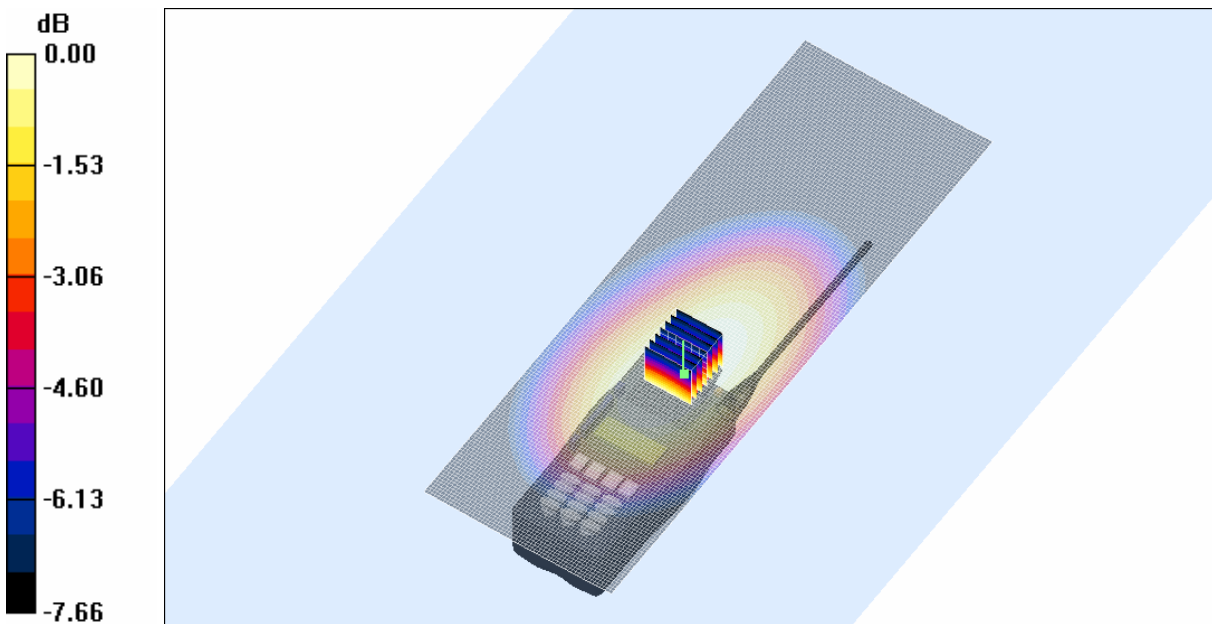
Channel 2 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.4 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 6.51 W/kg

SAR(1 g) = 4.81 mW/g; SAR(10 g) = 3.58 mW/g

Maximum value of SAR (measured) = 5.06 mW/g



SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

22.2 Degrees Celsius
22.0 Degrees Celsius
41.0 %



Test Date: 24 August 2007

File Name: 490 MHz Face Frontal (DAE442 Probe1380) 24-08-07.da4

DUT: Tait Handheld Transceiver; Type: TPC6A; Serial: 25001152

* Communication System: CW 490 MHz; Frequency: 530 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 0.906059$ mho/m, $\epsilon_r = 41.4808$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(7.04, 7.04, 7.04)

- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 3 Test/Area Scan (61x181x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 2.44 mW/g

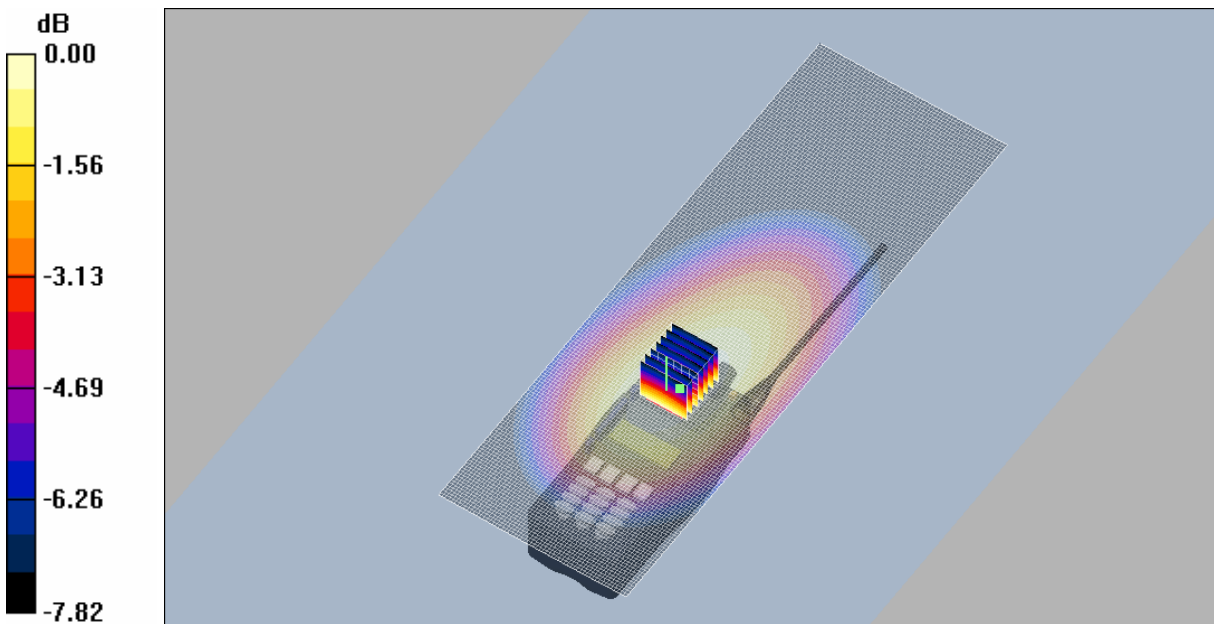
Channel 3 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.9 V/m; Power Drift = -0.215 dB

Peak SAR (extrapolated) = 3.13 W/kg

SAR(1 g) = 2.3 mW/g; SAR(10 g) = 1.7 mW/g

Maximum value of SAR (measured) = 2.41 mW/g



SAR MEASUREMENT PLOT 3

Ambient Temperature
Liquid Temperature
Humidity

22.2 Degrees Celsius
22.0 Degrees Celsius
41.0 %



Test Date: 24 August 2007

File Name: 490 MHz Face Frontal 4-Key Radio (DAE442 Probe1380) 24-08-07.da4

DUT: Tait Handheld Transceiver; Type: TPC6A; Serial: 25001028

* Communication System: CW 490 MHz; Frequency: 490 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 0.872694$ mho/m, $\epsilon_r = 42.1977$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(7.04, 7.04, 7.04)

- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 2 Test/Area Scan (61x181x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 4.73 mW/g

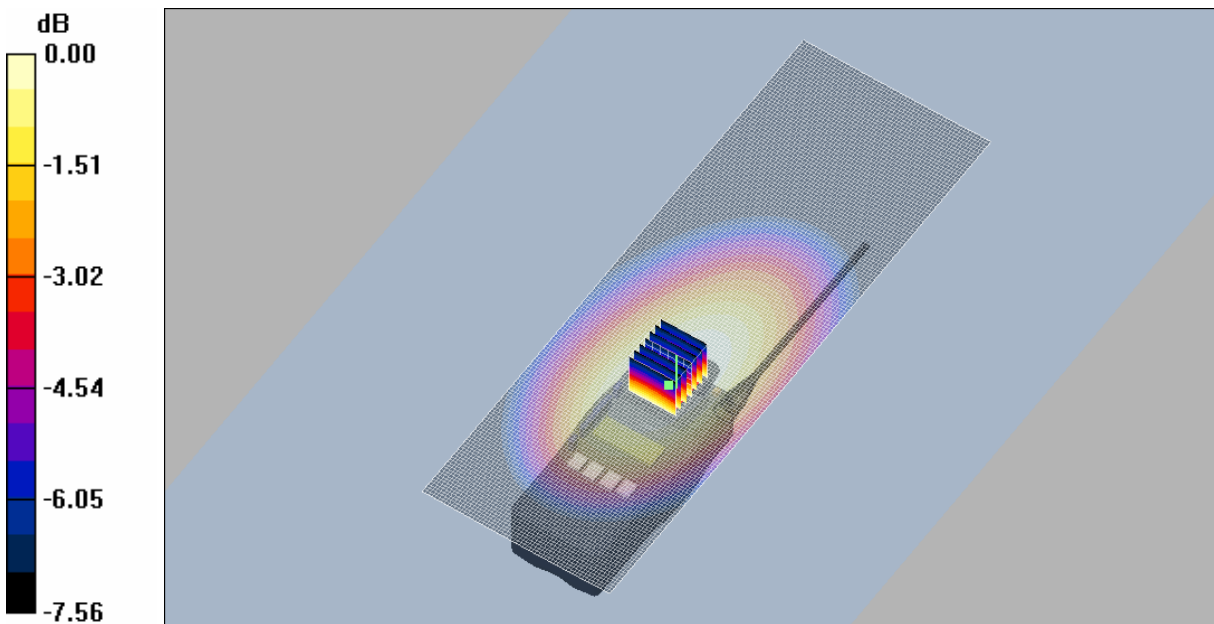
Channel 2 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.9 V/m; Power Drift = -0.279 dB

Peak SAR (extrapolated) = 5.68 W/kg

SAR(1 g) = 4.2 mW/g; SAR(10 g) = 3.13 mW/g

Maximum value of SAR (measured) = 4.40 mW/g

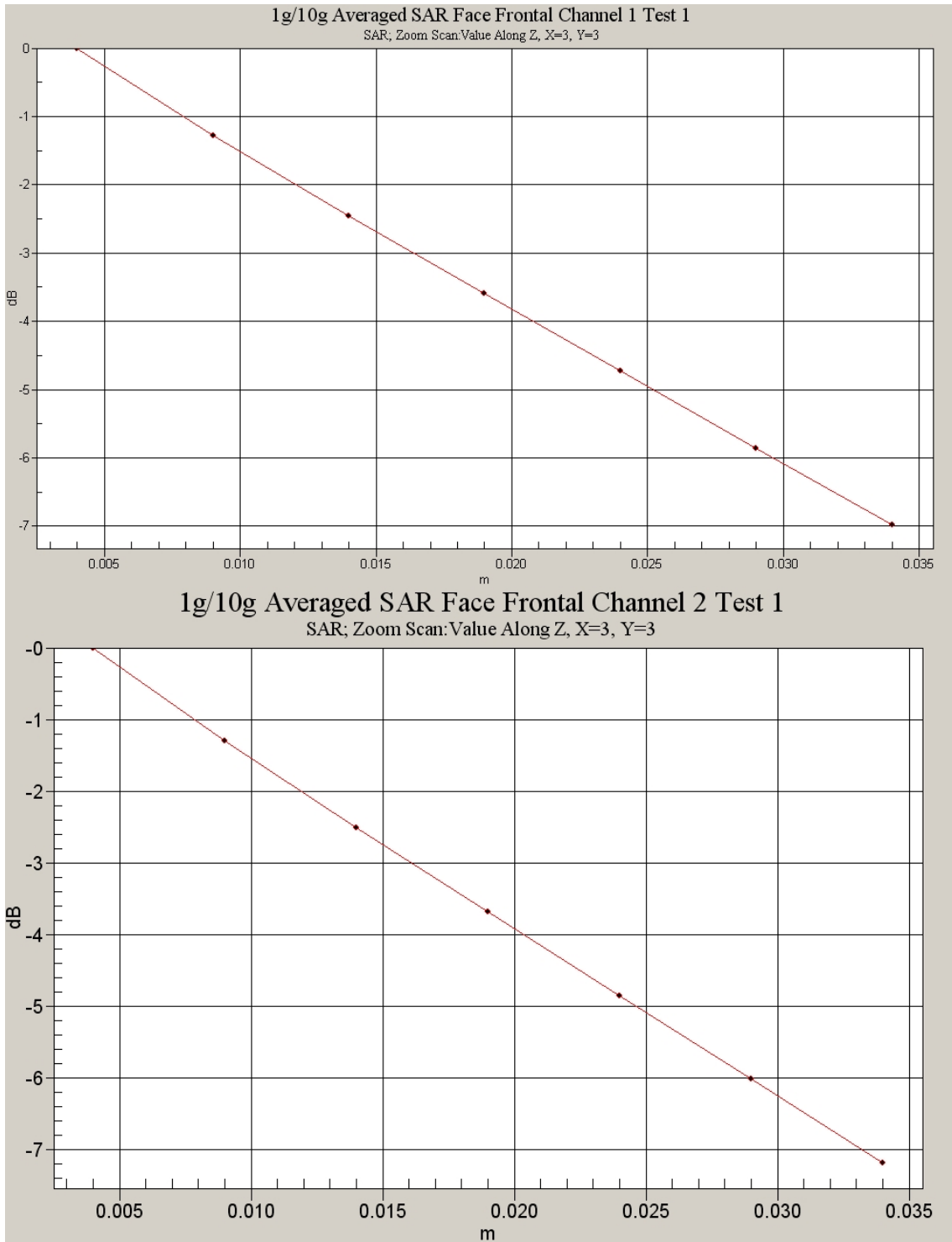


SAR MEASUREMENT PLOT 4

Ambient Temperature
Liquid Temperature
Humidity

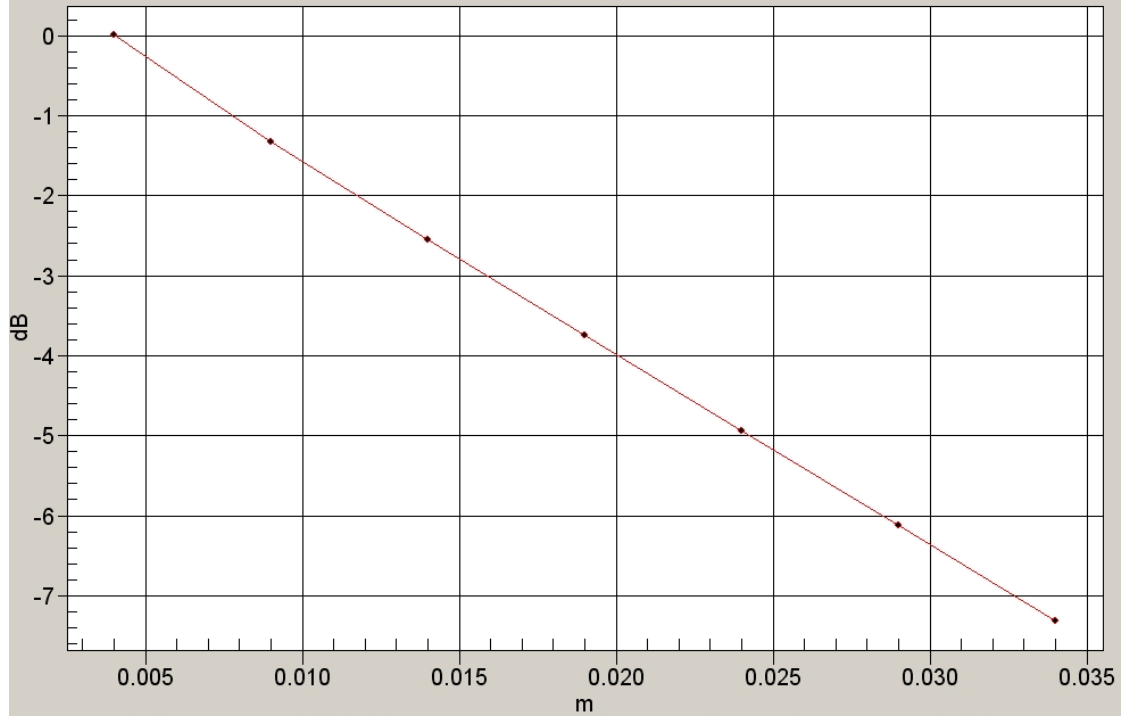
22.2 Degrees Celsius
22.0 Degrees Celsius
41.0 %





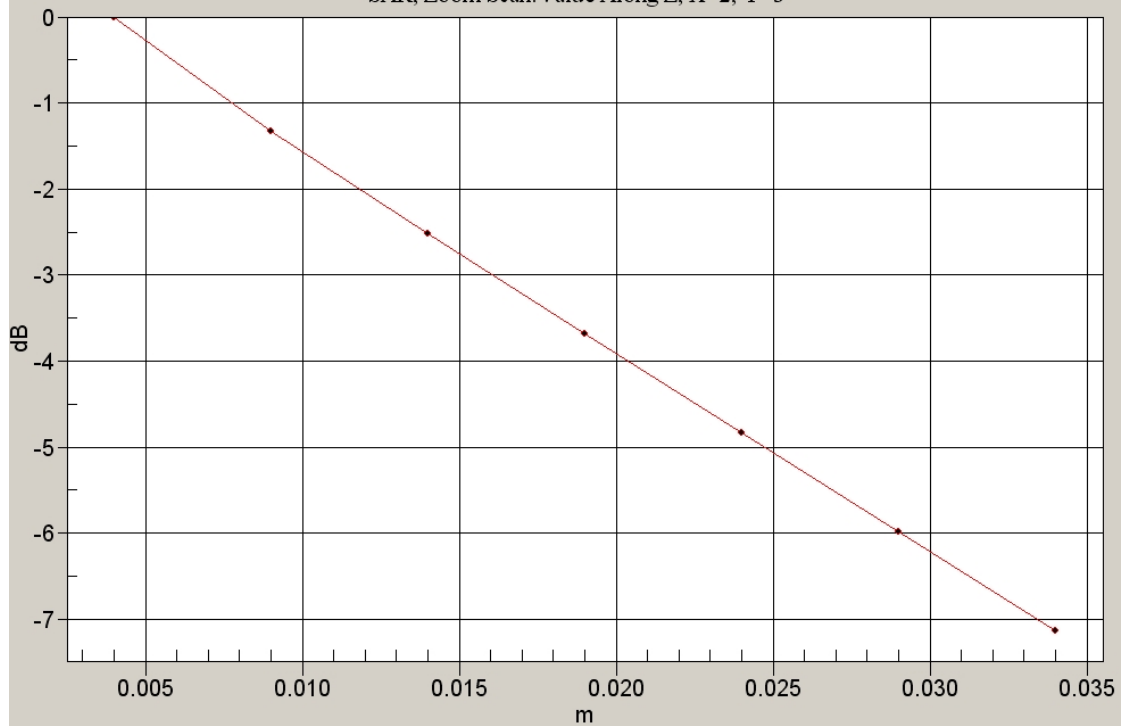
1g/10g Averaged SAR Face Frontal Channel 3 Test 1.jpg

SAR; Zoom Scan: Value Along Z, X=4, Y=2



1g/10g Averaged SAR Face Frontal Channel 2 Test 1 Version 4-Key.jpg

SAR; Zoom Scan: Value Along Z, X=2, Y=3



Test Date: 24 August 2007

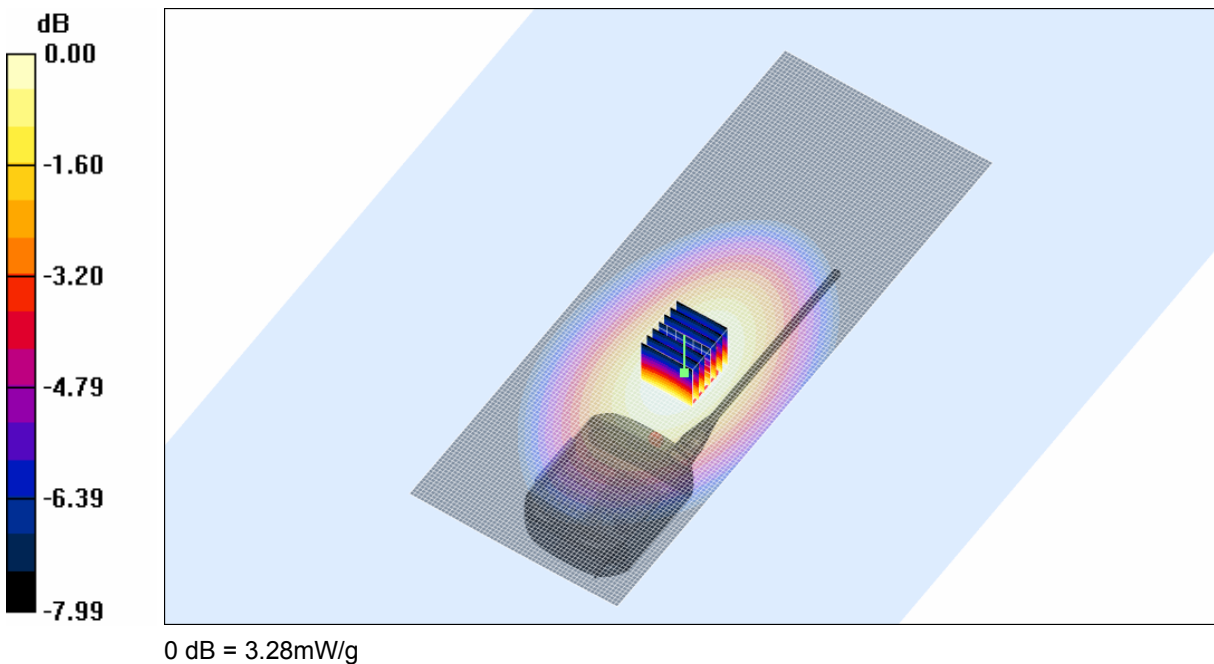
File Name: 490 MHz Face Frontal SPK-MIC (DAE442 Probe1380) 24-08-07.da4

DUT: Tait SPK/MIC Transceiver; Type: TPA-AA-204; Serial: 0546

- * Communication System: CW 490 MHz; Frequency: 450 MHz; Duty Cycle: 1:1
- * Medium parameters used: $\sigma = 0.840307$ mho/m, $\epsilon_r = 43.0988$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(7.04, 7.04, 7.04)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 1 Test/Area Scan (61x161x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 3.41 mW/g

Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 38.7 V/m; Power Drift = -0.415 dB
Peak SAR (extrapolated) = 4.39 W/kg
SAR(1 g) = 3.13 mW/g; SAR(10 g) = 2.27 mW/g
Maximum value of SAR (measured) = 3.28 mW/g



SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

22.2 Degrees Celsius
22.0 Degrees Celsius
41.0 %



Test Date: 24 August 2007

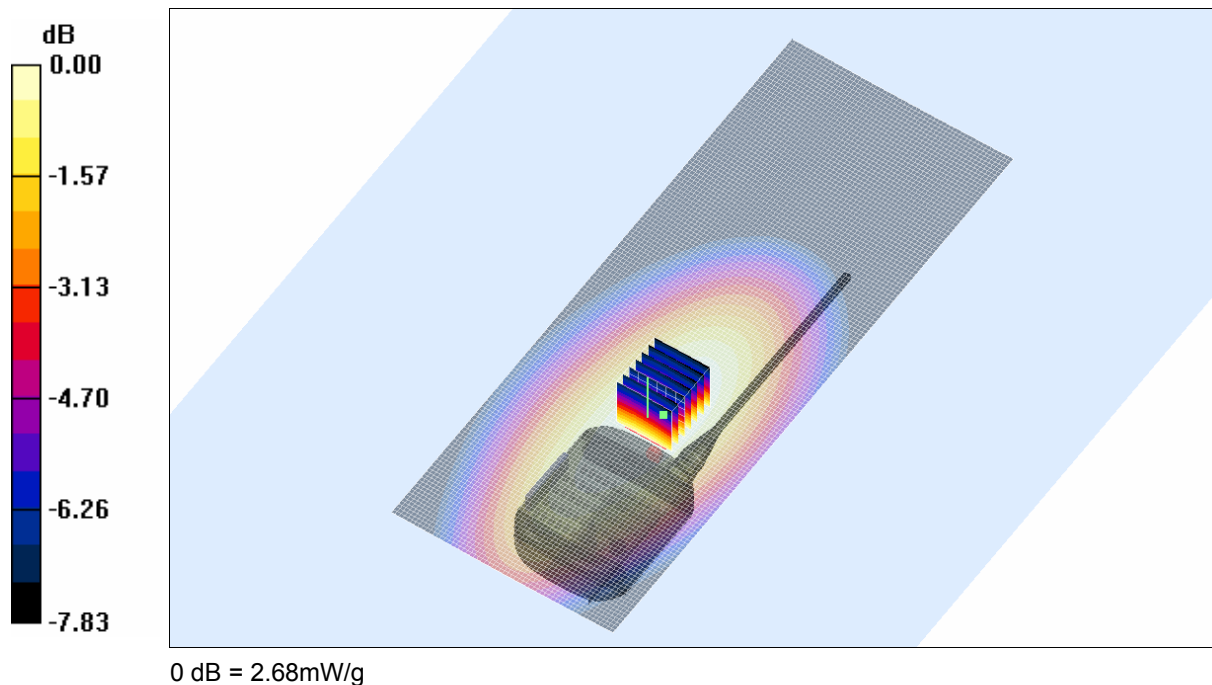
File Name: 490 MHz Face Frontal SPK-MIC (DAE442 Probe1380) 24-08-07.da4

DUT: Tait SPK/MIC Transceiver; Type: TPA-AA-204; Serial: 0546

- * Communication System: CW 490 MHz; Frequency: 490 MHz; Duty Cycle: 1:1
- * Medium parameters used: $\sigma = 0.872694$ mho/m, $\epsilon_r = 42.1977$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(7.04, 7.04, 7.04)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 2 Test/Area Scan (61x161x1): Measurement grid: dx=20mm, dy=20mm
 Maximum value of SAR (interpolated) = 2.87 mW/g

Channel 2 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 32.2 V/m; Power Drift = 0.248 dB
 Peak SAR (extrapolated) = 3.55 W/kg
SAR(1 g) = 2.55 mW/g; SAR(10 g) = 1.88 mW/g
 Maximum value of SAR (measured) = 2.68 mW/g



SAR MEASUREMENT PLOT 6

Ambient Temperature
 Liquid Temperature
 Humidity

22.2 Degrees Celsius
 22.0 Degrees Celsius
 41.0 %



Test Date: 24 August 2007

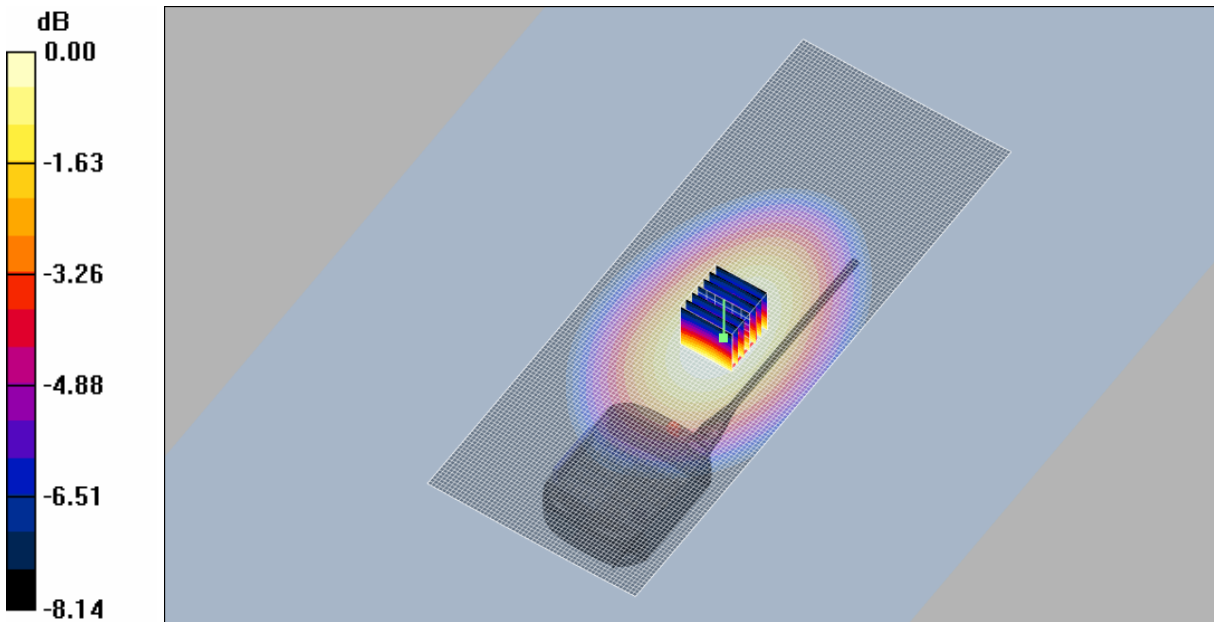
File Name: 490 MHz Face Frontal SPK-MIC (DAE442 Probe1380) 24-08-07.da4

DUT: Tait SPK/MIC Transceiver; Type: TPA-AA-204; Serial: 0546

- * Communication System: CW 490 MHz; Frequency: 530 MHz; Duty Cycle: 1:1
- * Medium parameters used: $\sigma = 0.906059$ mho/m, $\epsilon_r = 41.4808$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(7.04, 7.04, 7.04)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 3 Test/Area Scan (61x161x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 3.60 mW/g

Channel 3 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 45.0 V/m; Power Drift = -0.063 dB
Peak SAR (extrapolated) = 4.58 W/kg
SAR(1 g) = 3.26 mW/g; SAR(10 g) = 2.35 mW/g
Maximum value of SAR (measured) = 3.43 mW/g

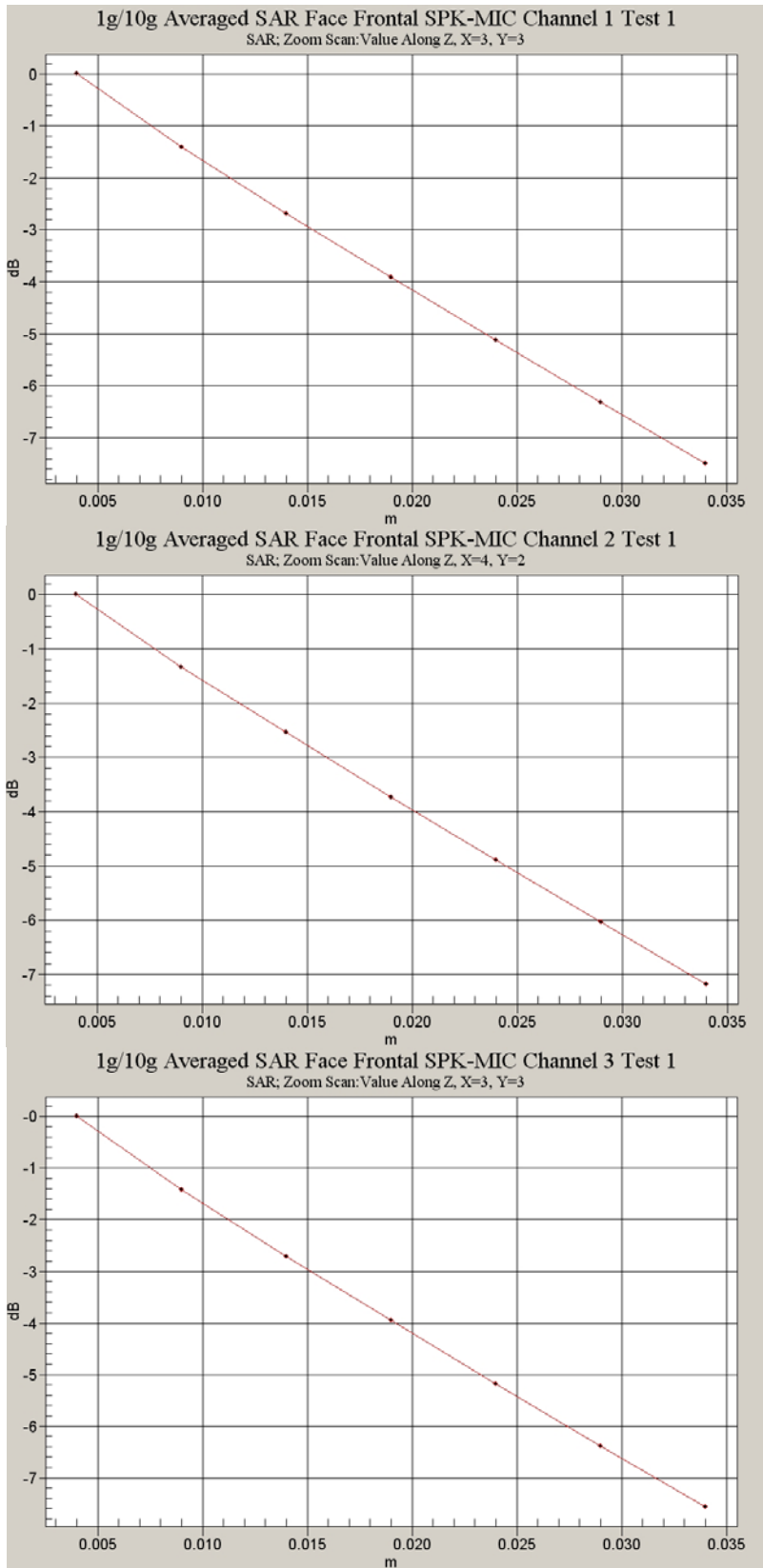


SAR MEASUREMENT PLOT 7

Ambient Temperature
Liquid Temperature
Humidity

22.2 Degrees Celsius
22.0 Degrees Celsius
41.0 %





Test Date: 25 August 2007

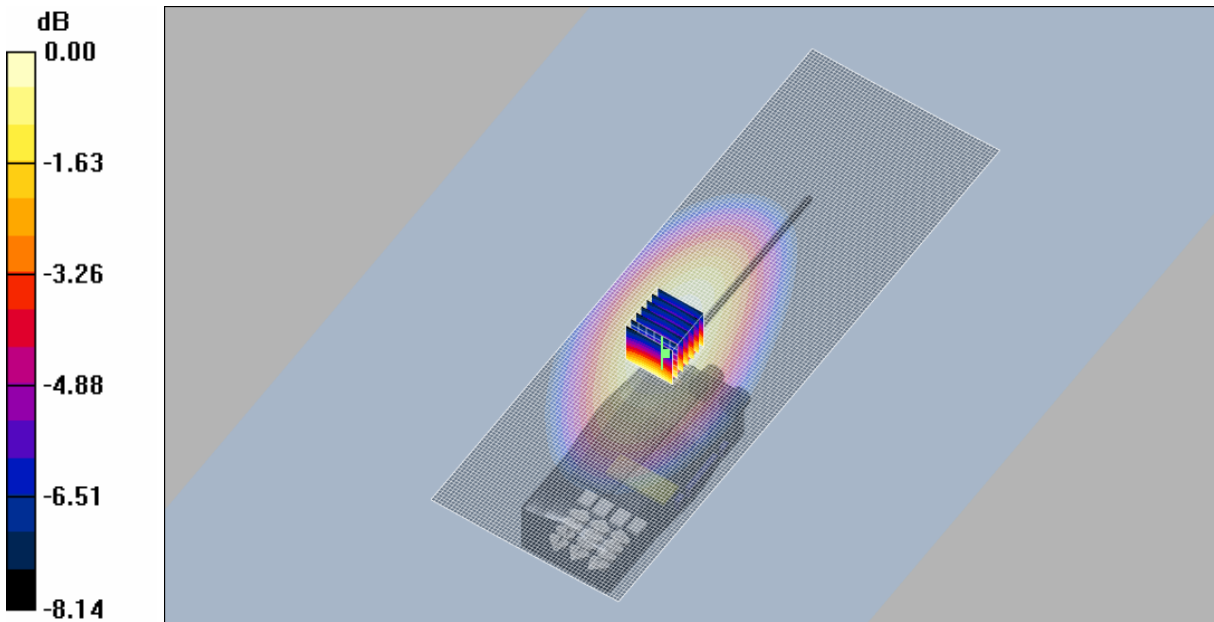
File Name: 490 MHz Belt Clip (DAE442 Probe1380) 25-08-07.da4

DUT: Tait Handheld Transceiver; Type: TPC6A; Serial: 25001152

- * Communication System: CW 490 MHz; Frequency: 450 MHz; Duty Cycle: 1:1
- * Medium parameters used: $\sigma = 0.904947$ mho/m, $\epsilon_r = 55.1945$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(7.57, 7.57, 7.57)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 1 Test/Area Scan (61x181x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 7.50 mW/g

Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 65.0 V/m; Power Drift = -0.401 dB
Peak SAR (extrapolated) = 9.84 W/kg
SAR(1 g) = 6.81 mW/g; SAR(10 g) = 4.94 mW/g
Maximum value of SAR (measured) = 7.19 mW/g



0 dB = 7.19mW/g

SAR MEASUREMENT PLOT 8

Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
20.1 Degrees Celsius
45.0 %



Test Date: 25 August 2007

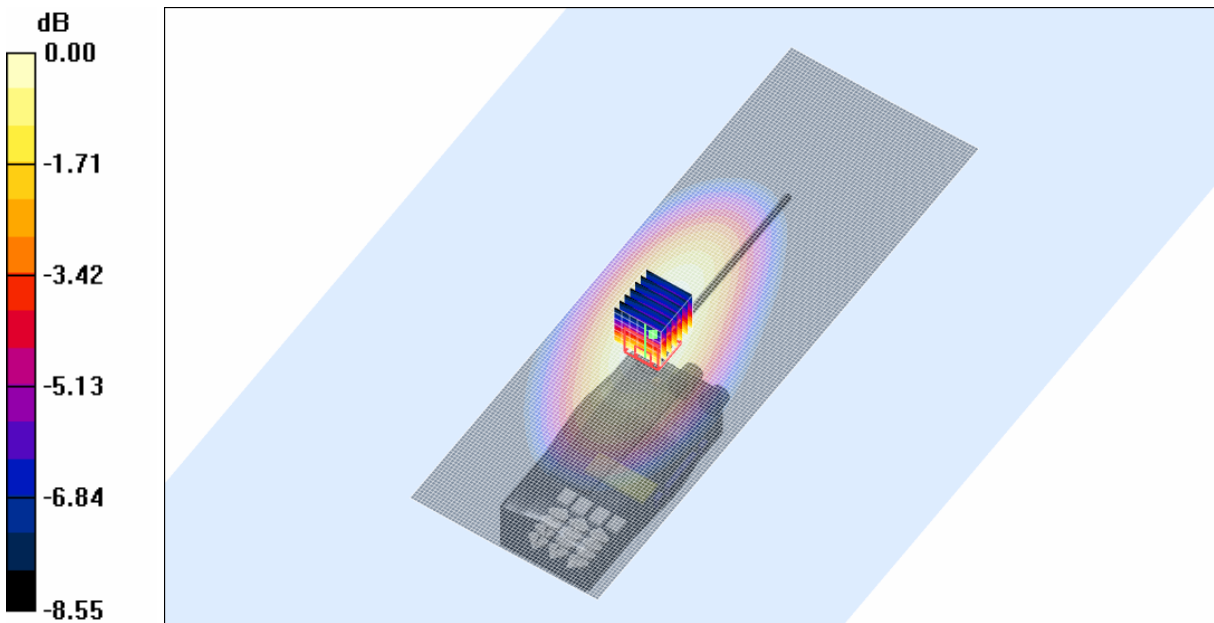
File Name: 490 MHz Belt Clip (DAE442 Probe1380) 25-08-07.da4

DUT: Tait Handheld Transceiver; Type: TPC6A; Serial: 25001152

- * Communication System: CW 490 MHz; Frequency: 490 MHz; Duty Cycle: 1:1
- * Medium parameters used: $\sigma = 0.940205$ mho/m, $\epsilon_r = 54.6806$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(7.57, 7.57, 7.57)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 2 Test/Area Scan (61x181x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 7.63 mW/g

Channel 2 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 71.6 V/m; Power Drift = 0.245 dB
Peak SAR (extrapolated) = 10.2 W/kg
SAR(1 g) = 6.93 mW/g; SAR(10 g) = 4.95 mW/g
Maximum value of SAR (measured) = 7.39 mW/g



SAR MEASUREMENT PLOT 9

Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
20.1 Degrees Celsius
45.0 %



Test Date: 25 August 2007

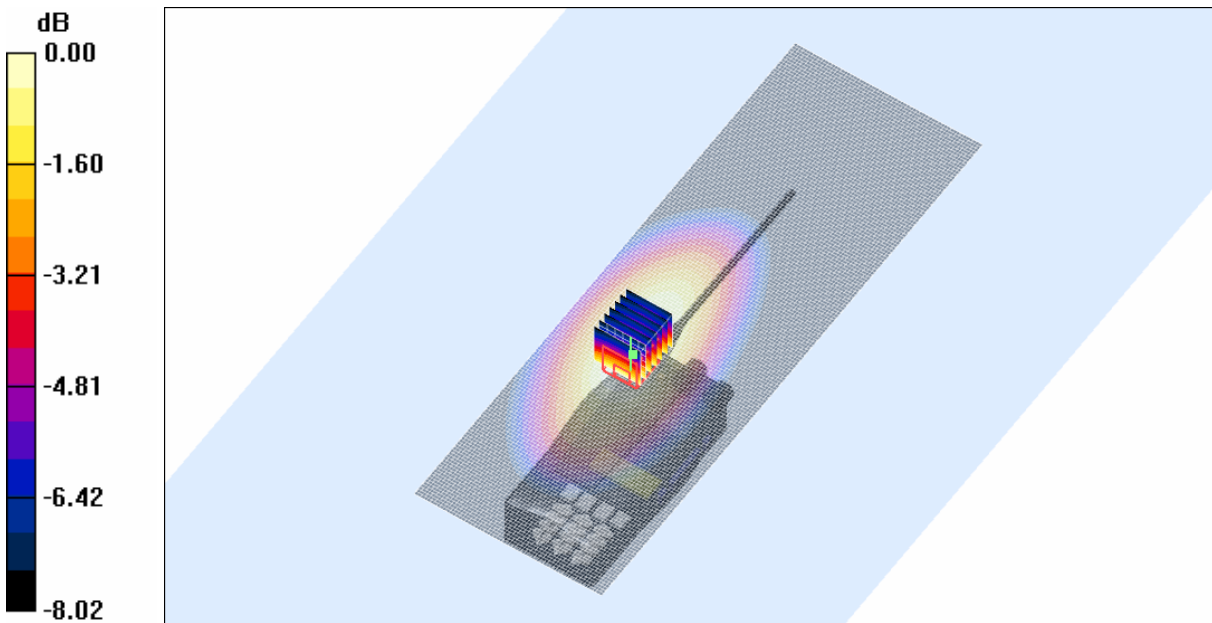
File Name: 490 MHz Belt Clip (DAE442 Probe1380) 25-08-07.da4

DUT: Tait Handheld Transceiver; Type: TPC6A; Serial: 25001152

- * Communication System: CW 490 MHz; Frequency: 530 MHz; Duty Cycle: 1:1
- * Medium parameters used: $\sigma = 0.978205$ mho/m, $\epsilon_r = 53.9864$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(7.57, 7.57, 7.57)
- Phantom: Flat Phantom 9.1; Serial: P 9.1; Phantom section: Flat 2.2 Section

Channel 3 Test/Area Scan (61x181x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 7.43 mW/g

Channel 3 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 54.3 V/m; Power Drift = -0.323 dB
Peak SAR (extrapolated) = 10.0 W/kg
SAR(1 g) = 6.97 mW/g; SAR(10 g) = 5.03 mW/g.
Maximum value of SAR (measured) = 7.31 mW/g



SAR MEASUREMENT PLOT 3

Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
20.1 Degrees Celsius
45.0 %

