

SAR Plots & Tissue Measurement Data

Test Laboratory: KTL

1900MHz Validation – D1900V2; SN: 5d038

***Test Date : 11th/Feb./2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 21.0

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(5, 5, 5); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2007-04-17
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 12.6 mW/g

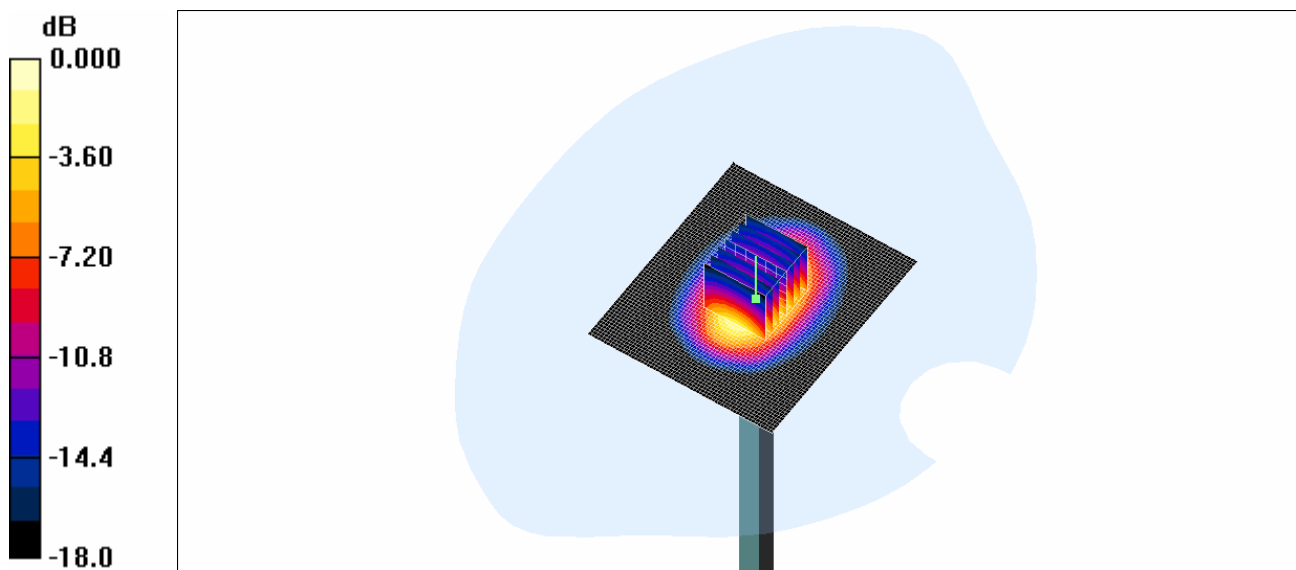
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 91.1 V/m ; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 19.3 W/kg

SAR(1 g) = 10.2 mW/g ; SAR(10 g) = 5.24 mW/g

Maximum value of SAR (measured) = 11.5 mW/g



0 dB = 11.5 mW/g

Test Laboratory: KTL

SMT-I8120 Ch.1 LEFT Cheek Touch

***Test Date : 11th/Feb./2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 21.0

Communication System: UPCS1900; Frequency: 1921.54 MHz; Duty Cycle: 1:24

Medium: HSL1900 Medium parameters used: $f = 1921.54 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

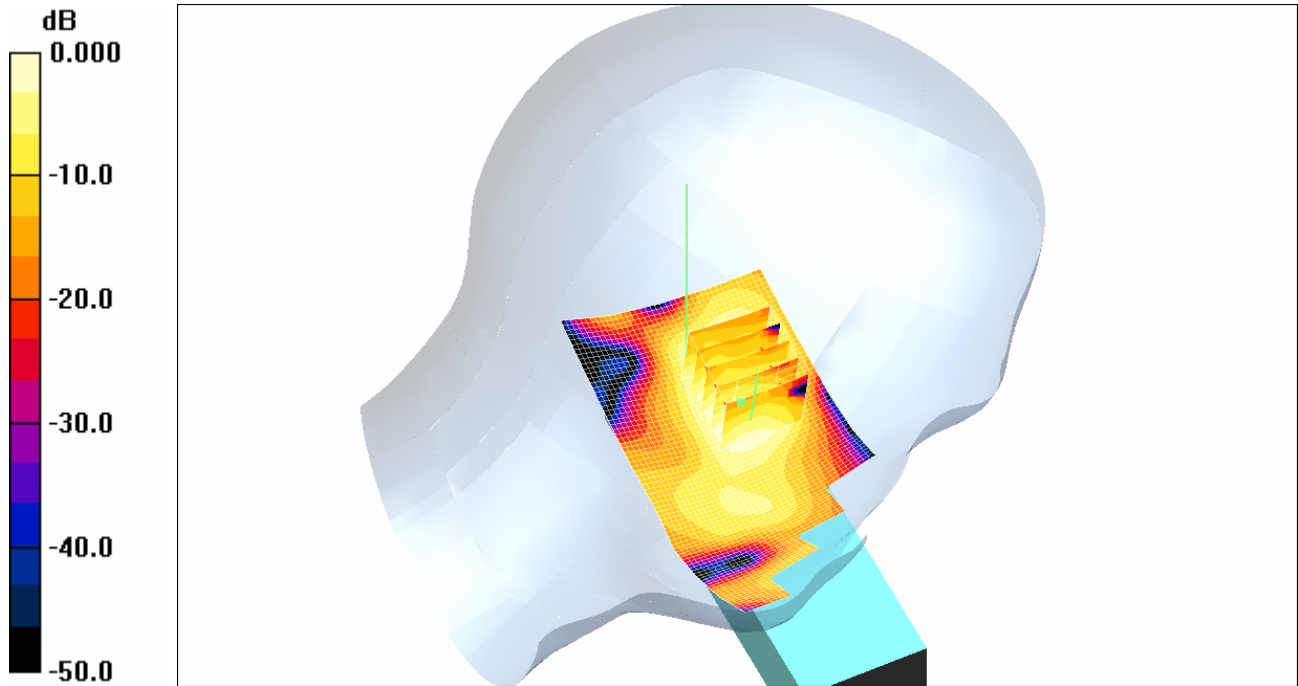
DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(4.7, 4.7, 4.7); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn559; Calibrated: 2007-04-17
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

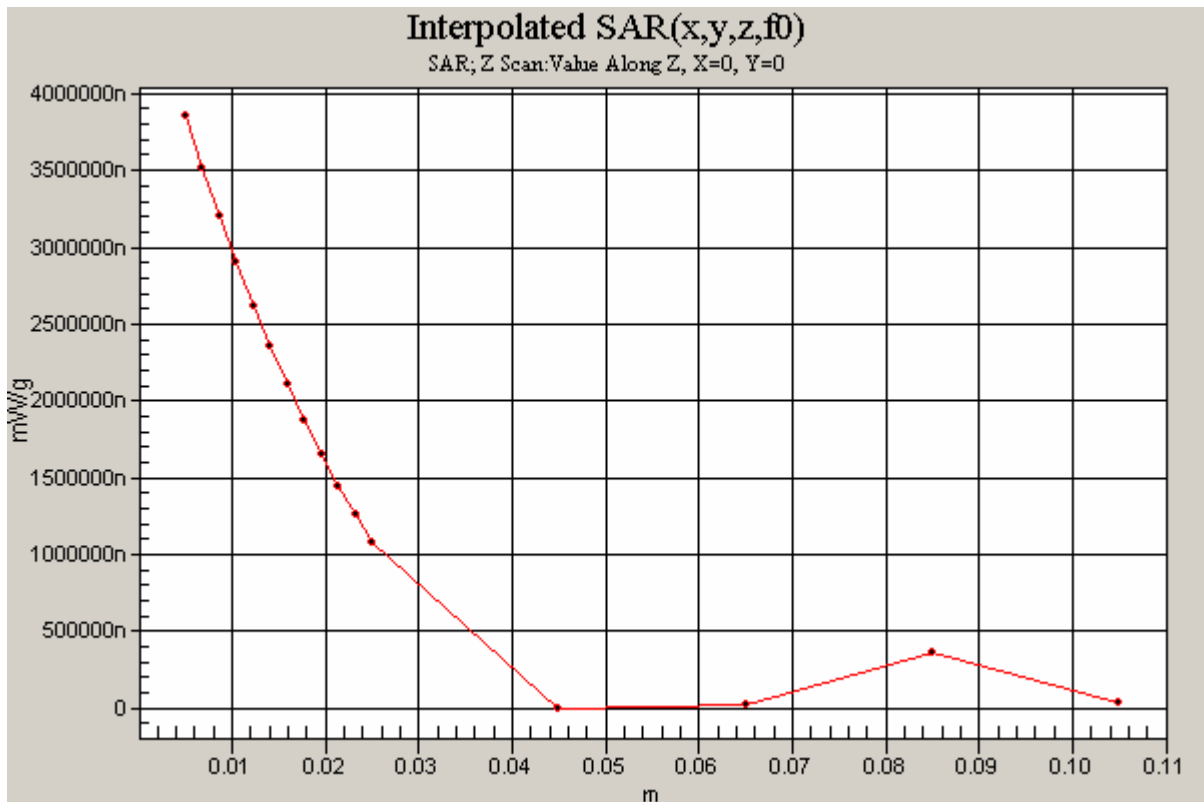
Area Scan (41x91x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$
Maximum value of SAR (interpolated) = 0.031 mW/g

Z Scan (1x1x16): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=20\text{mm}$
Maximum value of SAR (interpolated) = 0.004 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 2.07 V/m ; Power Drift = -0.083 dB
Peak SAR (extrapolated) = 0.027 W/kg
SAR(1 g) = 0.015 mW/g ; SAR(10 g) = 0.00904 mW/g
Maximum value of SAR (measured) = 0.016 mW/g



0 dB = 0.016mW/g



Test Laboratory: KTL

SMT-I8120 Ch.3 LEFT Cheek Touch

***Test Date : 11th/Feb./2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 21.0

Communication System: UPCS1900; Frequency: 1924.99 MHz; Duty Cycle: 1:24

Medium: HSL1900 Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(4.7, 4.7, 4.7); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2007-04-17
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (41x91x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.029 mW/g

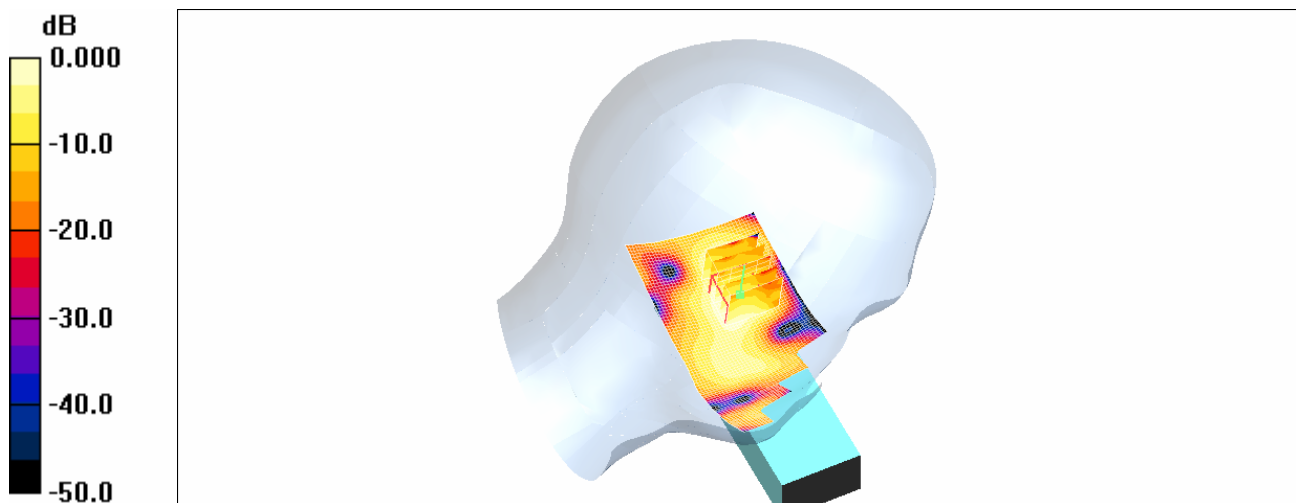
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.19 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 0.026 W/kg

SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00877 mW/g

Maximum value of SAR (measured) = 0.016 mW/g



0 dB = 0.016mW/g

Test Laboratory: KTL

SMT-I8120 Ch.3 LEFT Ear Tilt

***Test Date : 11th/Feb./2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 21.0

Communication System: UPCS1900; Frequency: 1924.99 MHz; Duty Cycle: 1: 24

Medium: HSL1900 Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(4.7, 4.7, 4.7); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2007-04-17
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (41x91x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.022 mW/g

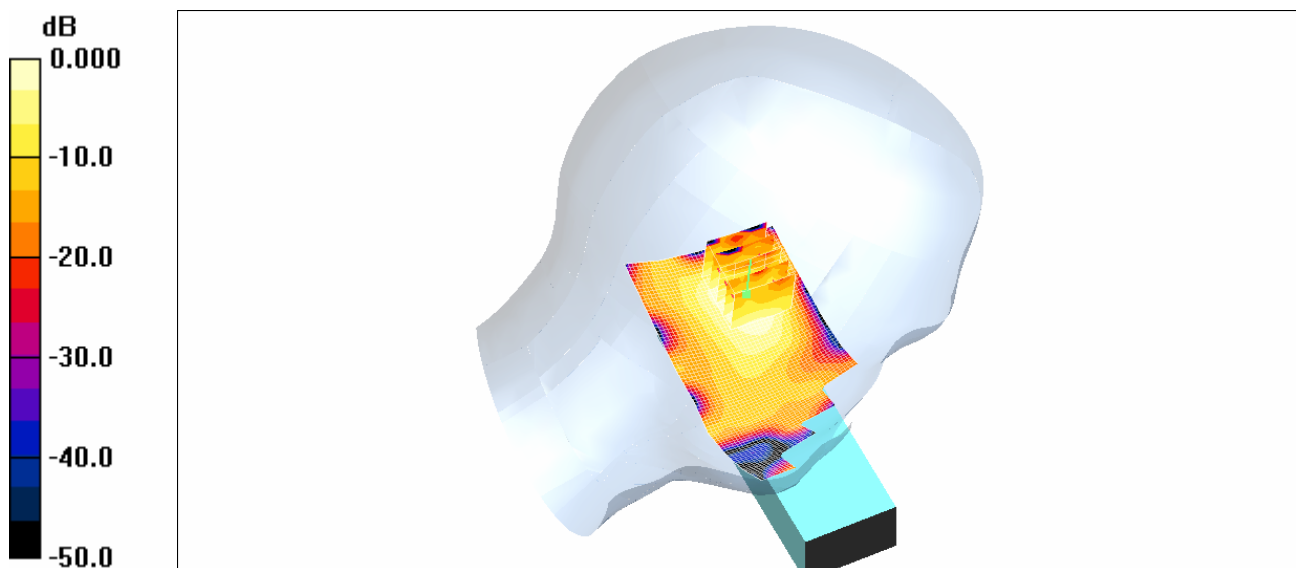
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.43 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.027 W/kg

SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.00651 mW/g

Maximum value of SAR (measured) = 0.014 mW/g



0 dB = 0.014mW/g

Test Laboratory: KTL

SMT-I8120 Ch.3 Right Cheek Touch

*Test Date : 11th/Feb./2008

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 21.0

Communication System: UPCS1900; Frequency: 1924.99 MHz; Duty Cycle: 1: 24

Medium: HSL1900 Medium parameters used: $f = 1924.99 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(4.7, 4.7, 4.7); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2007-04-17
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (41x91x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.018 mW/g

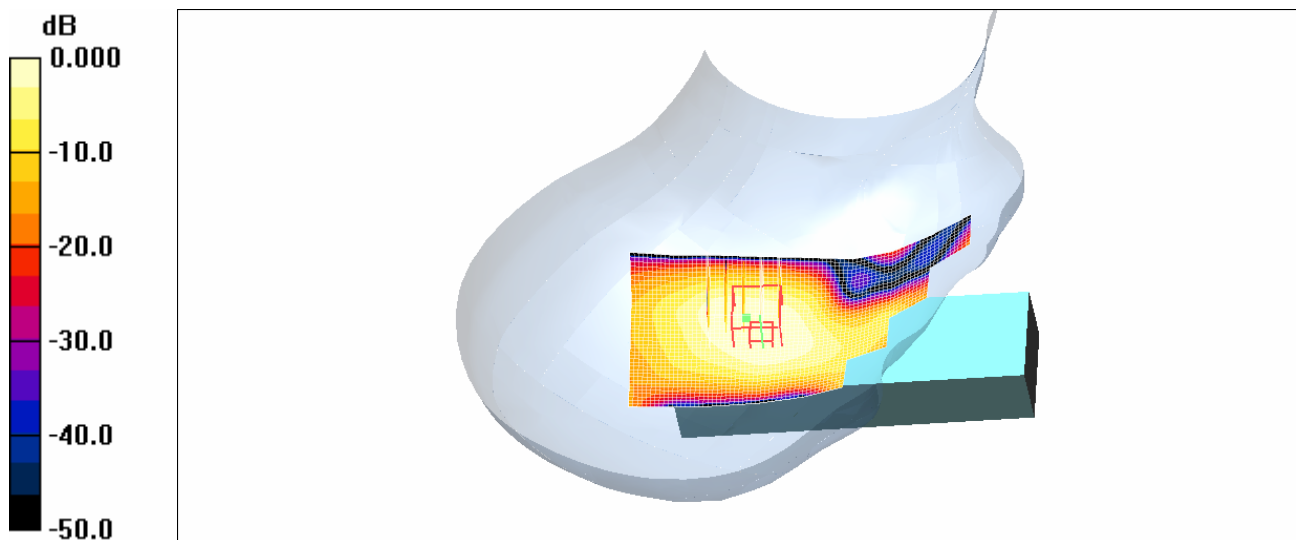
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.37 V/m ; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.022 W/kg

SAR(1 g) = 0.012 mW/g ; SAR(10 g) = 0.00717 mW/g

Maximum value of SAR (measured) = 0.014 mW/g



0 dB = 0.014 mW/g

Test Laboratory: KTL

SMT-I8120 Ch.3 RIGHT Ear Tilt

***Test Date : 11th/Feb./2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 21.0

Communication System: UPCS1900; Frequency: 1924.99 MHz; Duty Cycle: 1: 24

Medium: HSL1900 Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(4.7, 4.7, 4.7); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2007-04-17
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (41x91x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.017 mW/g

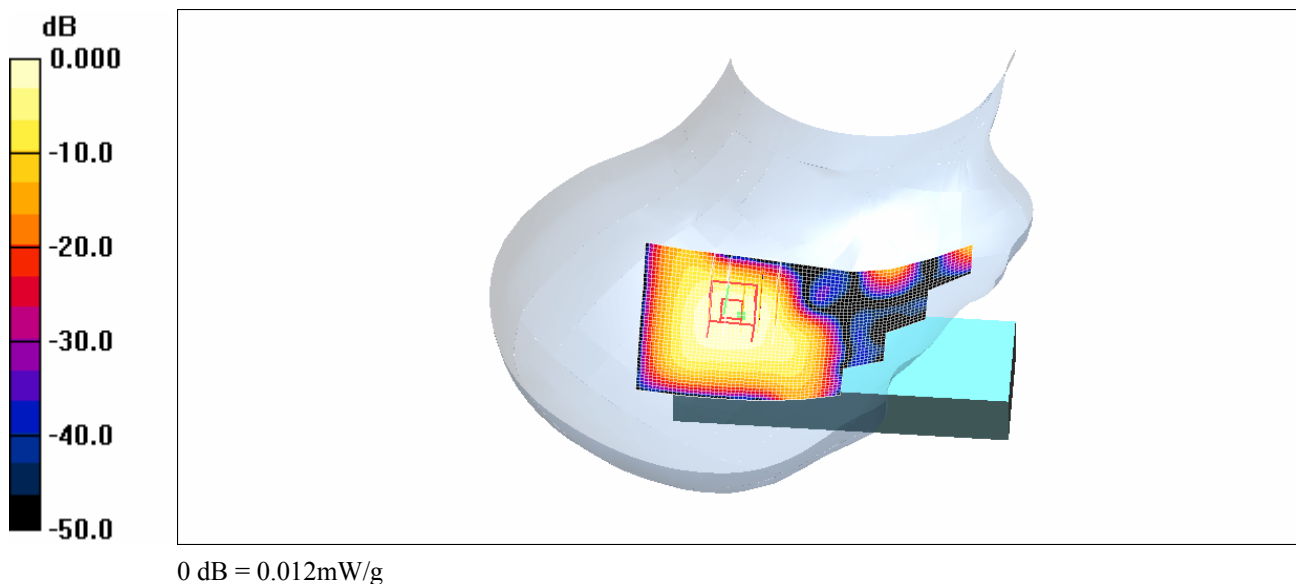
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.56 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 0.021 W/kg

SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.0059 mW/g

Maximum value of SAR (measured) = 0.012 mW/g



Test Laboratory: KTL

SMT-I8120 Ch.5 LEFT Cheek Touch

***Test Date : 11th/Feb./2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 21.0

Communication System: UPCS1900; Frequency: 1928.45 MHz; Duty Cycle: 1: 24

Medium: HSL1900 Medium parameters used: $f = 1928.45$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(4.7, 4.7, 4.7); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2007-04-17
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (41x91x1): Measurement grid: $dx=20$ mm, $dy=20$ mm
Maximum value of SAR (interpolated) = 0.033 mW/g

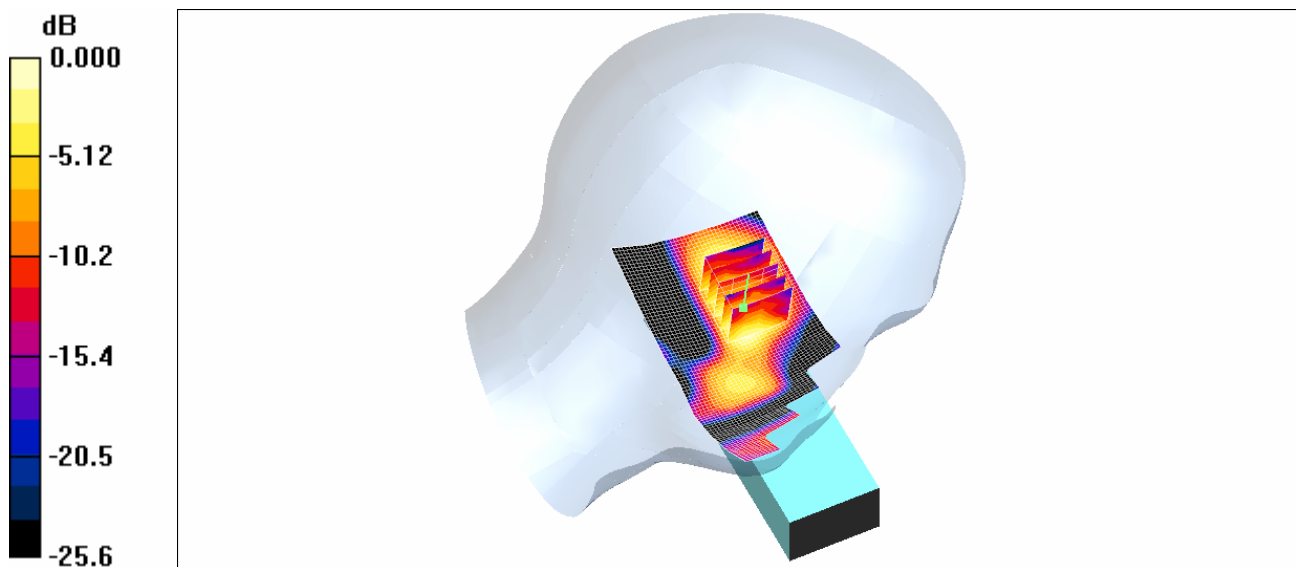
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 1.92 V/m; Power Drift = 0.195 dB

Peak SAR (extrapolated) = 0.024 W/kg

SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.00827 mW/g

Maximum value of SAR (measured) = 0.015 mW/g



0 dB = 0.015mW/g

Test Laboratory: KTL

1900MHz Validation – D1900V2; SN: 5d038

***Test Date : 06th/Mar/2007**

Measured Liquid Temperature(°C) : 21.5 , Ambient Temperature(°C) : 22.0

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1773; ConvF(5.02, 5.02, 5.02); Calibrated: 2007-05-31
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2007-04-17
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 11.3 mW/g

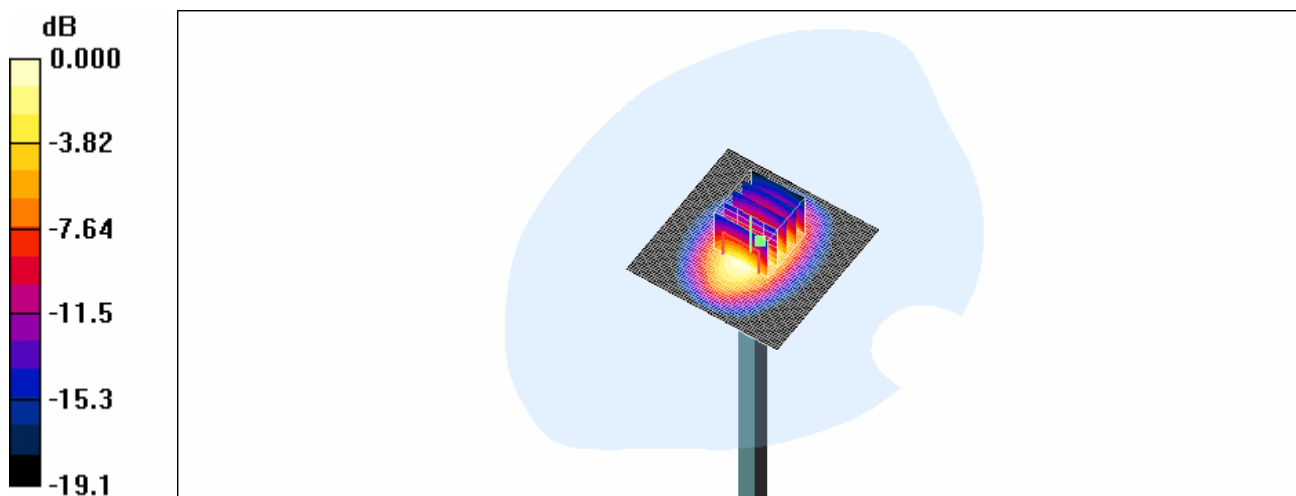
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 93.9 V/m ; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 16.6 W/kg

SAR(1 g) = 9.73 mW/g ; SAR(10 g) = 5.12 mW/g

Maximum value of SAR (measured) = 10.8 mW/g



0 dB = 10.8 mW/g

Test Laboratory: KTL

SMT-I8120 Ch.1 Body Front to phantom

***Test Date : 06th/Mar./2008**

Measured Liquid Temperature(°C) : 21.5, Ambient Temperature(°C) : 22.0

Communication System: UPCS1900; Frequency: 1921.54 MHz; Duty Cycle: 1:24

Medium: HSL1900 Medium parameters used: $f = 1921.54 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(4.4, 4.4, 4.4); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn559; Calibrated: 2007-04-17
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (41x101x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.005 mW/g

Z Scan (1x1x16): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=20\text{mm}$

Maximum value of SAR (interpolated) = 0.001 mW/g

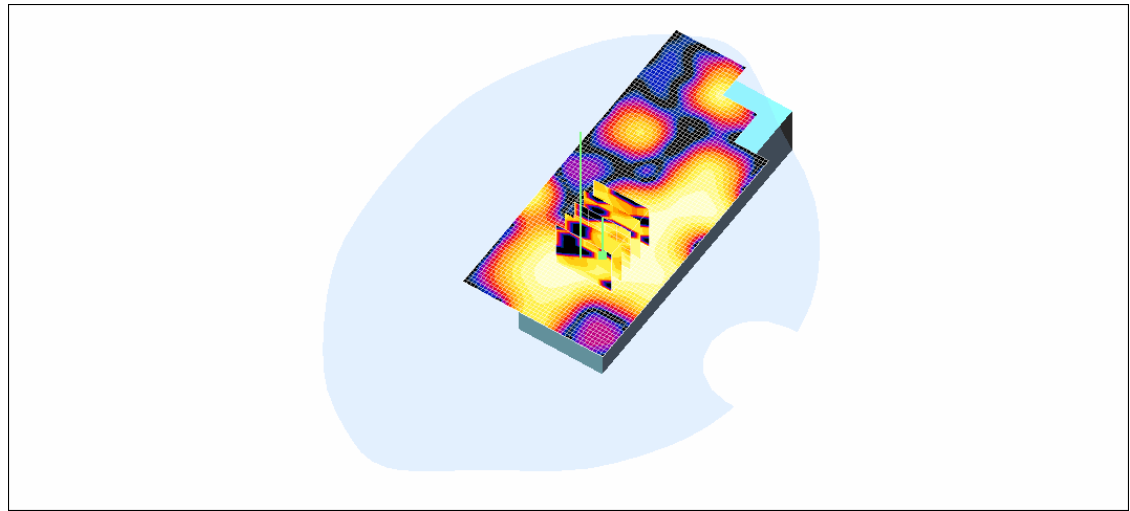
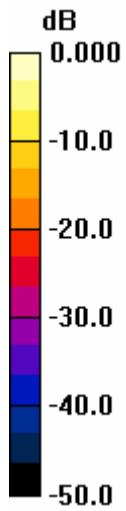
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.24 V/m; Power Drift = -1.87 dB

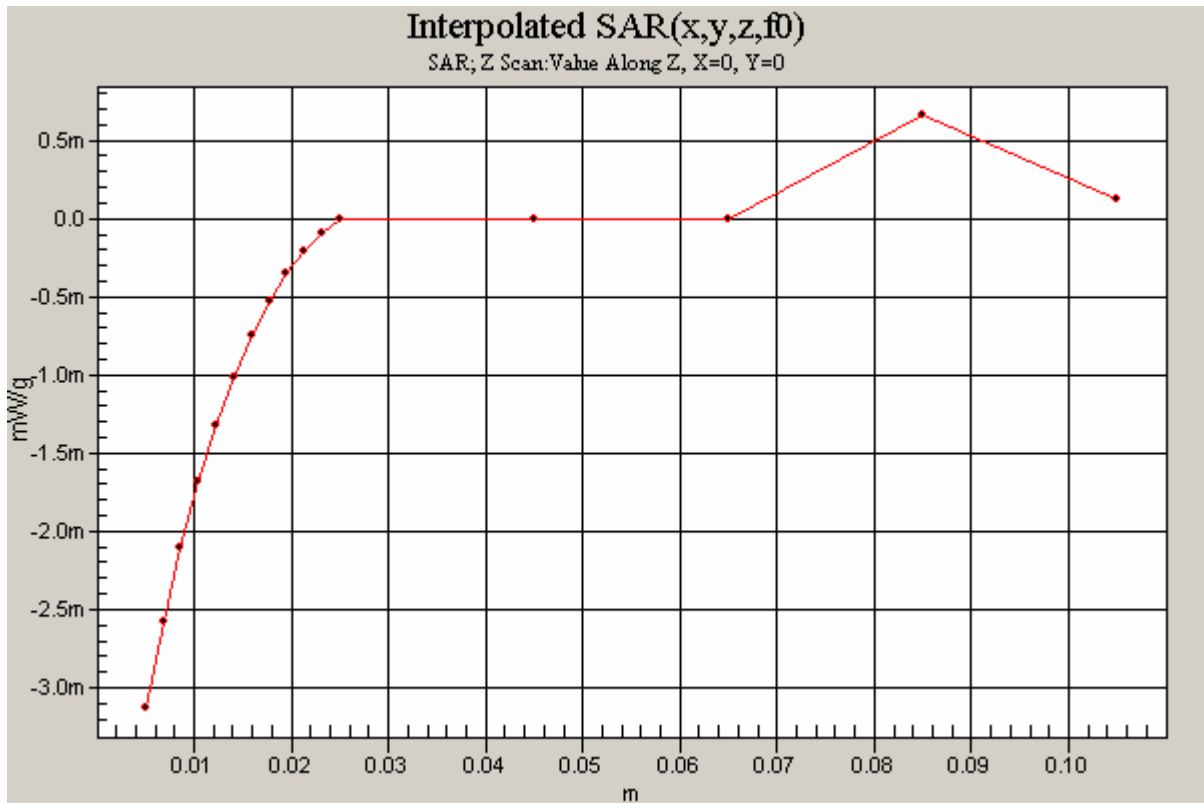
Peak SAR (extrapolated) = 0.012 W/kg

SAR(1 g) = 0.00285 mW/g; SAR(10 g) = 0.00114 mW/g

Maximum value of SAR (measured) = 0.003 mW/g



0 dB = 0.003mW/g



Test Laboratory: KTL

SMT-I8120 Ch.3 Body Front to phantom

***Test Date : 06th/Mar./2008**

Measured Liquid Temperature(°C) : 21.5, Ambient Temperature(°C) : 22.0

Communication System: UPCS1900; Frequency: 1924.99 MHz; Duty Cycle: 1:24

Medium: HSL1900 Medium parameters used: $f = 1924.99 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(4.4, 4.4, 4.4); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2007-04-17
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Area Scan (41x101x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.003 mW/g

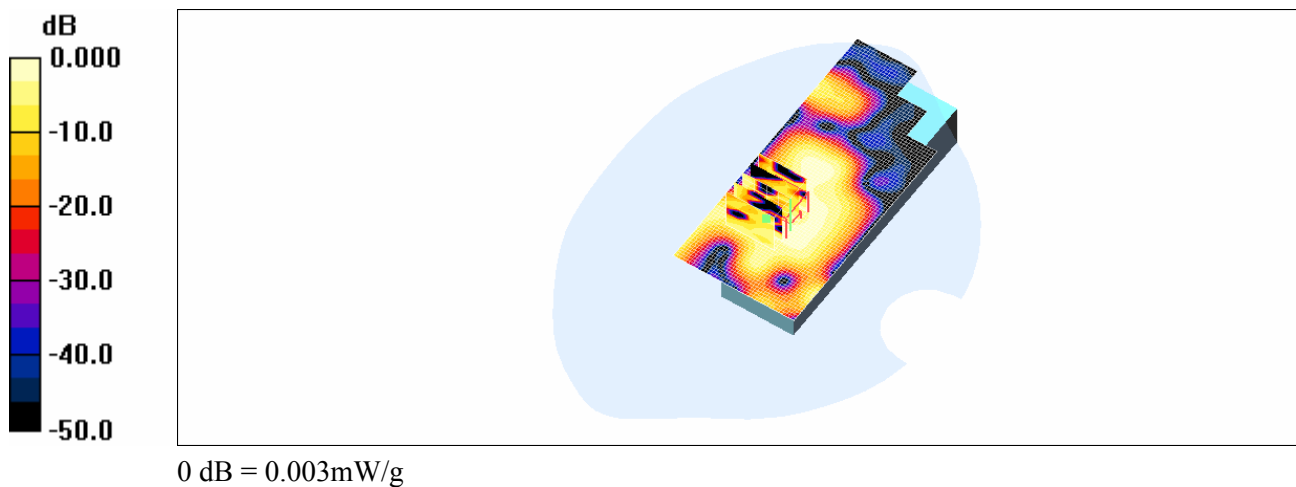
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.22 V/m ; Power Drift = -1.98 dB

Peak SAR (extrapolated) = 0.007 W/kg

SAR(1 g) = 0.00193 mW/g ; SAR(10 g) = 0.000785 mW/g

Maximum value of SAR (measured) = 0.003 mW/g



Test Laboratory: KTL

SMT-I8120 Ch.3 Body Back to phantom

***Test Date : 06th/Mar./2008**

Measured Liquid Temperature(°C) : 21.5, Ambient Temperature(°C) : 22.0

Communication System: UPCS1900; Frequency: 1924.99 MHz; Duty Cycle: 1:24

Medium: HSL1900 Medium parameters used: $f = 1924.99 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(4.4, 4.4, 4.4); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2007-04-17
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body 1.5/Area Scan (41x101x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.006 mW/g

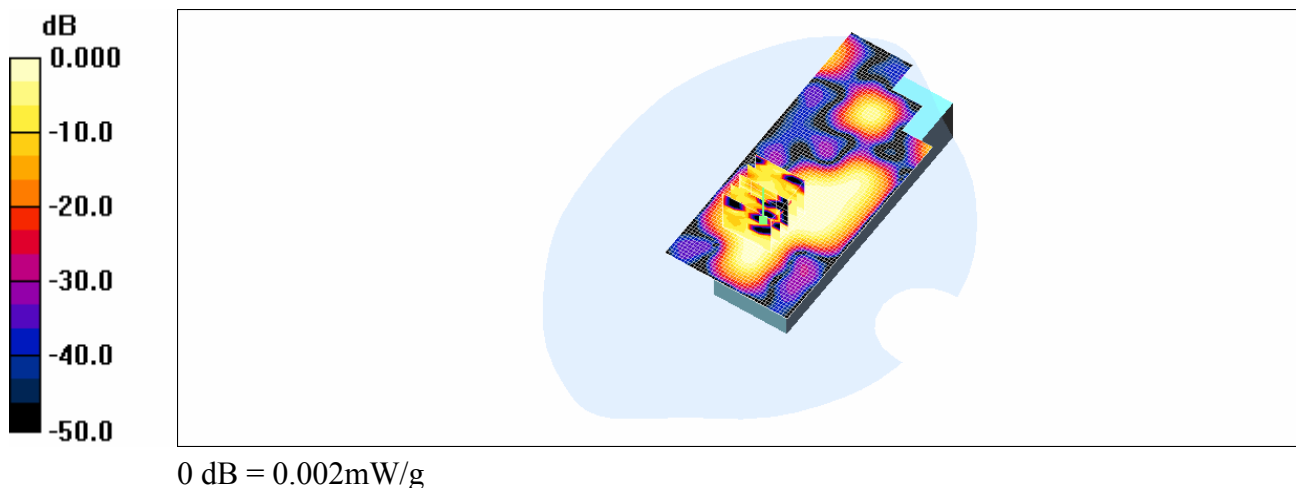
Body 1.5/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.04 V/m ; Power Drift = 0.688 dB

Peak SAR (extrapolated) = 0.004 W/kg

SAR(1 g) = 0.00178 mW/g ; SAR(10 g) = 0.000805 mW/g

Maximum value of SAR (measured) = 0.002 mW/g



Test Laboratory: KTL

SMT-I8120 Ch.5 Body Front to phantom

***Test Date : 06th/Mar./2008**

Measured Liquid Temperature(°C) : 21.5, Ambient Temperature(°C) : 22.0

Communication System: UPCS1900; Frequency: 1928.45 MHz; Duty Cycle: 1:24

Medium: HSL1900 Medium parameters used: $f = 1928.45 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(4.4, 4.4, 4.4); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2007-04-17
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Body-F/Area Scan (41x101x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.006 mW/g

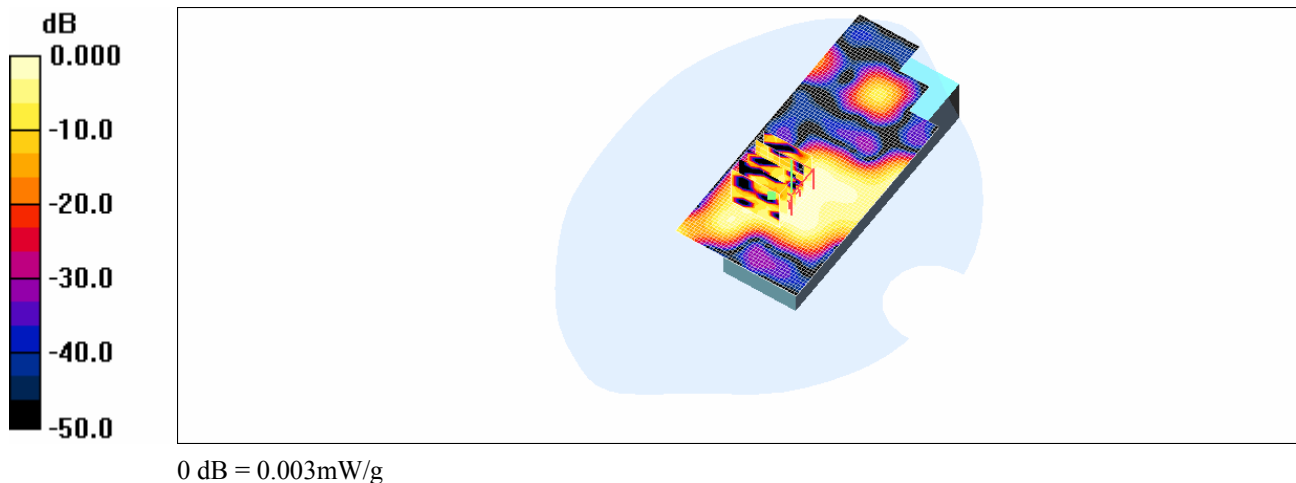
Body-F/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.09 V/m; Power Drift = 0.837 dB

Peak SAR (extrapolated) = 0.010 W/kg

SAR(1 g) = 0.00272 mW/g; SAR(10 g) = 0.000931 mW/g

Maximum value of SAR (measured) = 0.003 mW/g



Title

SubTitle

February 11, 2008 01:23 PM

Frequency	e'	e''
1900000000.	38.8184	13.3912
1901000000.	38.8158	13.3845
1902000000.	38.8056	13.3796
1903000000.	38.8070	13.4028
1904000000.	38.7989	13.3966
1905000000.	38.7966	13.4044
1906000000.	38.7959	13.4053
1907000000.	38.7926	13.4020
1908000000.	38.7951	13.4126
1909000000.	38.7860	13.4189
1910000000.	38.7729	13.4187
1911000000.	38.7738	13.4127
1912000000.	38.7628	13.4113
1913000000.	38.7709	13.4214
1914000000.	38.7592	13.4234
1915000000.	38.7512	13.4171
1916000000.	38.7535	13.4133
1917000000.	38.7461	13.4360
1918000000.	38.7420	13.4361
1919000000.	38.7312	13.4346
1920000000.	38.7393	13.4446
1921000000.	38.7216	13.4416
1922000000.	38.7229	13.4501
1923000000.	38.7163	13.4460
1924000000.	38.7108	13.4529
1925000000.	38.7083	13.4461
1926000000.	38.7066	13.4682
1927000000.	38.6894	13.4474
1928000000.	38.6897	13.4447
1929000000.	38.6779	13.4556
1930000000.	38.6806	13.4661

1931000000.	38.6809	13.4635
1932000000.	38.6722	13.4607
1933000000.	38.6661	13.4709
1934000000.	38.6675	13.4793
1935000000.	38.6560	13.4812
1936000000.	38.6576	13.4807
1937000000.	38.6528	13.4930
1938000000.	38.6552	13.4891
1939000000.	38.6528	13.4501
1940000000.	38.6407	13.4876

Title

SubTitle

March 06, 2008 16:05 PM

Frequency	e'	e''
1900000000	52.8637	14.2407
1901000000	52.8426	14.2464
1902000000	52.8214	14.2521
1903000000	52.8003	14.2578
1904000000	52.7792	14.2635
1905000000	52.7581	14.2692
1906000000	52.7370	14.2749
1907000000	52.7159	14.2806
1908000000	52.6948	14.2863
1909000000	52.6737	14.2920
1910000000	52.6526	14.2978
1911000000	52.6316	14.3035
1912000000	52.6105	14.3092
1913000000	52.5895	14.3149
1914000000	52.5684	14.3207
1915000000	52.5474	14.3264
1916000000	52.5264	14.3321
1917000000	52.5054	14.3378
1918000000	52.4844	14.3436
1919000000	52.4634	14.3493
1920000000	52.4424	14.3551
1921000000	52.4214	14.3608
1922000000	52.4004	14.3665
1923000000	52.3795	14.3723
1924000000	52.3585	14.3780
1925000000	52.3376	14.3838
1926000000	52.3167	14.3895
1927000000	52.2957	14.3953
1928000000	52.2748	14.4011
1929000000	52.2539	14.4068
1930000000	52.2330	14.4126
1931000000	52.2121	14.4183

1932000000	52.1912	14.4241
1933000000	52.1703	14.4299
1934000000	52.1495	14.4357
1935000000	52.1286	14.4414
1936000000	52.1078	14.4472
1937000000	52.0869	14.4530
1938000000	52.0661	14.4588
1939000000	52.0453	14.4646
1940000000	52.0244	14.4703

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Frequency	e'	e''
1900000000	39.2843	13.3824
1901000000	39.2686	13.3770
1902000000	39.2529	13.3717
1903000000	39.2372	13.3663
1904000000	39.2215	13.3610
1905000000	39.2058	13.3557
1906000000	39.1901	13.3503
1907000000	39.1744	13.3450
1908000000	39.1588	13.3396
1909000000	39.1431	13.3343
1910000000	39.1274	13.3290
1911000000	39.1118	13.3236
1912000000	39.0961	13.3183
1913000000	39.0805	13.3130
1914000000	39.0649	13.3077
1915000000	39.0493	13.3023
1916000000	39.0336	13.2970
1917000000	39.0180	13.2917
1918000000	39.0024	13.2864
1919000000	38.9868	13.2811
1920000000	38.9712	13.2757
1921000000	38.9556	13.2704
1922000000	38.9400	13.2651
1923000000	38.9245	13.2598
1924000000	38.9089	13.2545
1925000000	38.8933	13.2492
1926000000	38.8778	13.2439
1927000000	38.8622	13.2386
1928000000	38.8467	13.2333
1929000000	38.8311	13.2280
1930000000	38.8156	13.2227

1931000000	38.8001	13.2175
1932000000	38.7846	13.2122
1933000000	38.7691	13.2069
1934000000	38.7535	13.2016
1935000000	38.7380	13.1963
1936000000	38.7225	13.1910
1937000000	38.7071	13.1858
1938000000	38.6916	13.1805
1939000000	38.6761	13.1752
1940000000	38.6606	13.1699