

SAR TEST REPORT

Equipment Under Test :	LF152 HSDPA WCDMA/EDGE GPRS GSM MultiMode mobile phone
Model No. :	LF152
FCC ID	Q78-ZTELF152
Applicant :	ZTE CORPORATION
Address of Applicant :	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China
Date of Receipt :	2007.11.29
Date of Test :	2007.12.03 ~2008.01.08
Date of Issue :	2008.01.09

Standards:

**FCC OET Bulletin 65 supplement C,
ANSI/IEEE C95.1, C95.3, IEEE 1528-2003**

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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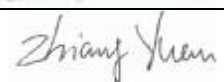
Tested by :



Date :

2008.01.09

Approved by :



Date :

2008.01.09

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1. General Information

1.1 Test Laboratory

GSM Lab

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1.2 Details of Applicant

Name: ZTE CORPORATION

Address: ZTE Plaza, Keji Road South, Hi-Tech Industrial Park,
Nanshan District, Shenzhen, Guangdong, 518057,
P.R.China

1.3 Description of EUT(s)

Brand name	ZTE	
Model No.	LF152	
Market Name	LF152	
Serial No.	IMEI: 357406010003364	
Hardware Version	W90A	
Software Version	LF152 1.0	
Sample Status	Production	
Battery Type	Lithium-Ion	
Antenna Type	Inner Antenna	
Operation Mode	GSM/GPRS/EDGE	WCDMA/HSDPA
Modulation Mode	GMSK	---
Frequency range	GSM850	Tx: 824~849 MHz
		Rx: 869~894 MHz
	PCS1900	Tx: 1850~1910 MHz
		Rx: 1930~1990 MHz
	WCDMA FDD Band V	Tx: 824~849 MHz
		Rx: 869~894 MHz
	WCDMA	Tx: 1850~1910 MHz

	FDD Band II	Rx: 1930~1990 MHz
Maximum RF Conducted Power	GSM850: 33.0dBm, PCS1900: 30.0dBm WCDMA FDD Band V:24.0dBm, WCDMA FDD Band II : 24.0dBm	
GPRS/EGPRS	Multislot Class :12 Uplink: 2 TS	

1.4 Test Environment

Ambient temperature: 22.0° C

Tissue Simulating Liquid: 22° C

Relative Humidity: 35%~45%

1.5 Operation Configuration

1.5.1 DUT Positioning

Configuration 1: GSM 850, LeftHandSide Cheek & 15° Tilt Position

Configuration 2: GSM 850, RightHandSide Cheek & 15° Tilt Position

Configuration 3: GSM 850, BodyWorn (1.5 cm between EUT and phantom)

Configuration 4: PCS 1900, LeftHandSide Cheek & 15° Tilt Position

Configuration 5: PCS 1900, RightHandSide Cheek & 15° Tilt Position

Configuration 6: PCS 1900, BodyWorn (1.5 cm between EUT and phantom)

Configuration 7: WCDMA FDD Band V , LeftHandSide Cheek & 15° Tilt Position

Configuration 8: WCDMA FDD Band V, RightHandSide Cheek & 15° Tilt Position

Configuration 9: WCDMA FDD Band V, BodyWorn (1.5 cm between EUT and phantom)

Configuration 10: WCDMA FDD Band II , LeftHandSide Cheek & 15° Tilt Position

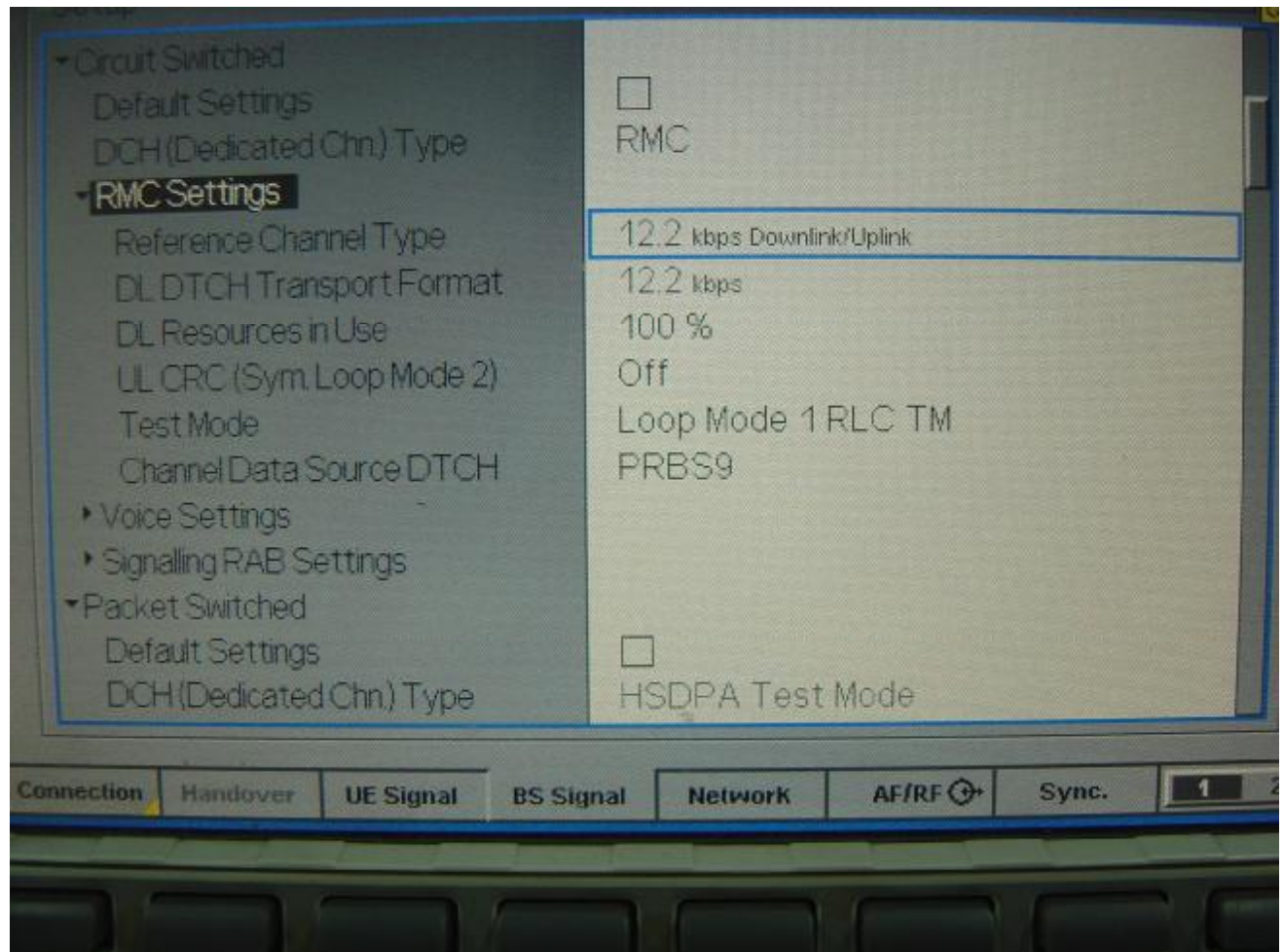
Configuration 11: WCDMA FDD Band II , RightHandSide Cheek & 15° Tilt Position

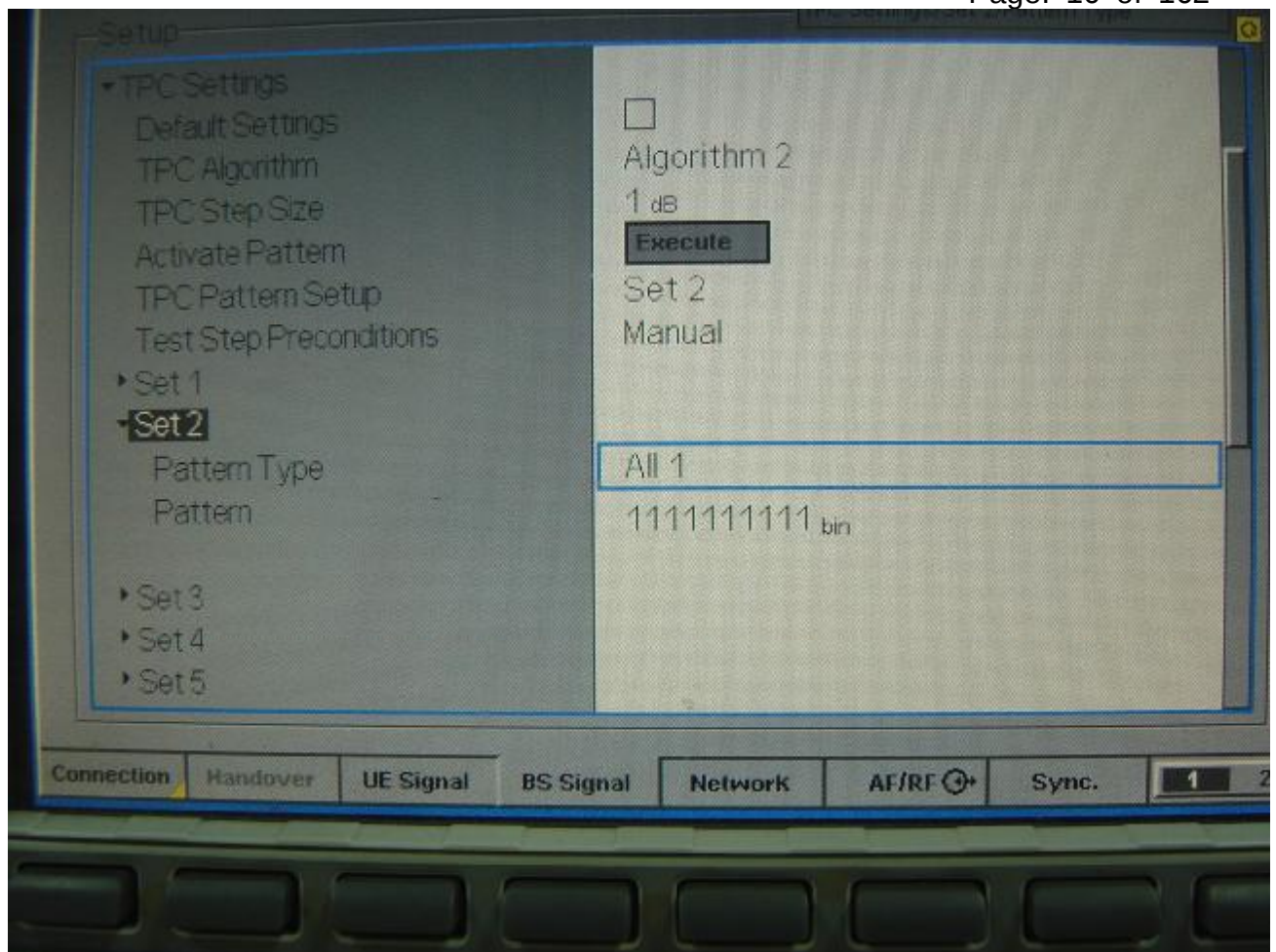
Configuration 12: WCDMA FDD Band II , BodyWorn (1.5 cm between EUT and phantom)

1.5.2 DUT Signaling (3G)

WCDMA parameters (CS)

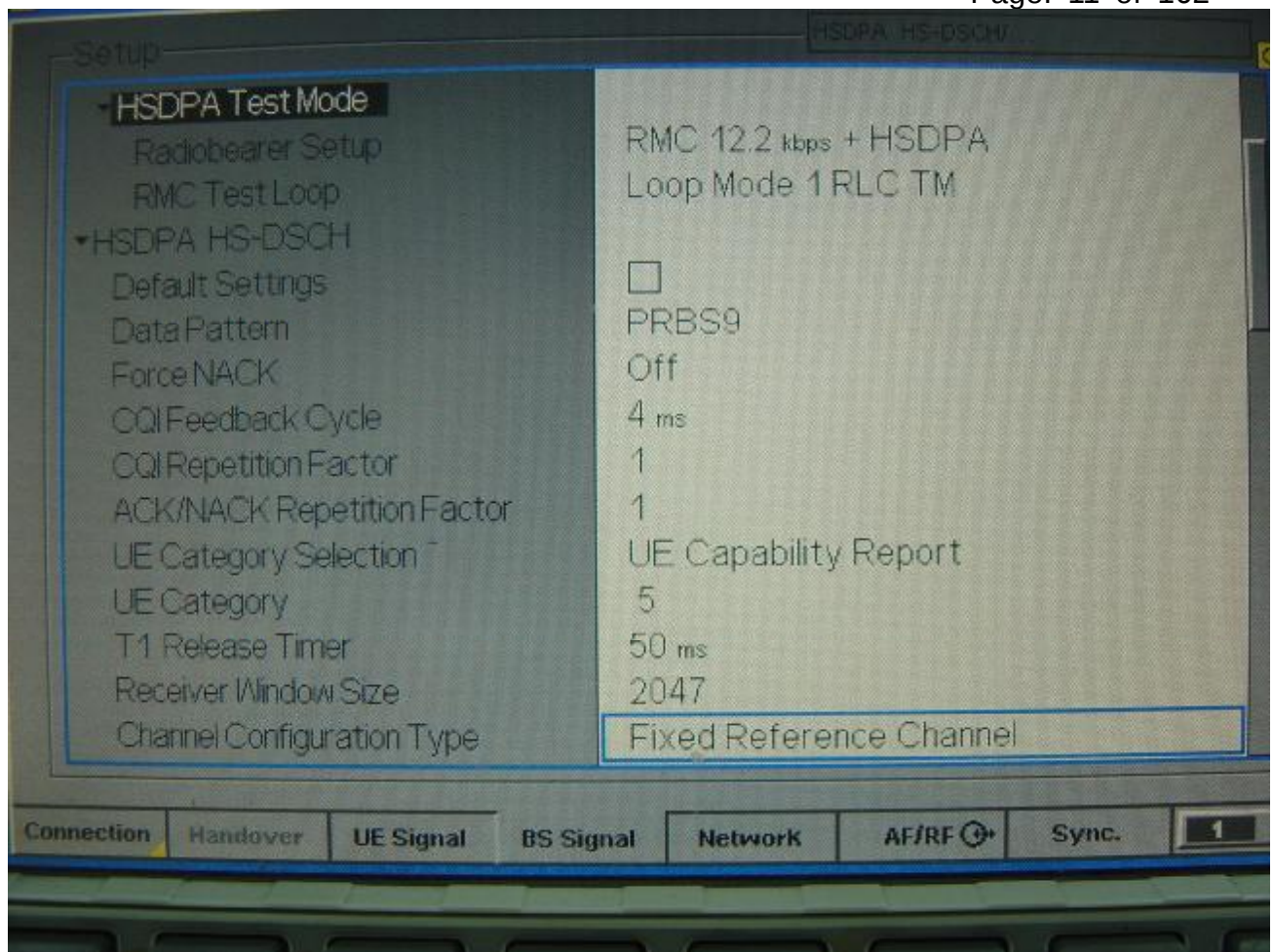
12.2 kbps RMC and Test Loop Mode 1 and TPC all 1





HSDPA parameters (PS)

12.2 kbps RMC and TPC all 1 and Fixed Reference Channel



Conducted Output Power with HSDPA(FDD Band V & II)

Channel	Frequency(MHz)	Power(dBm)
4132	826.4	22.9
4182	836.4	22.7
4233	846.6	23.0
12	1852.4	22.4
9400	1880.0	22.3
9538	1907.6	22.3

Conducted Output Power without HSDPA(FDD Band V & II)

Channel	Frequency(MHz)	Power(dBm)
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4132	826.4	22.8
4182	836.4	22.7
4233	846.6	22.9
12	1852.4	22.4
9400	1880.0	22.3
9538	1907.6	22.2

1.6 The SAR Measurement System

A photograph of the SAR measurement System is given in Fig. a.

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (Speag Dasy 4 professional system). A Model EX3DV4 3578 E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.

The DASY4 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).
- A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.

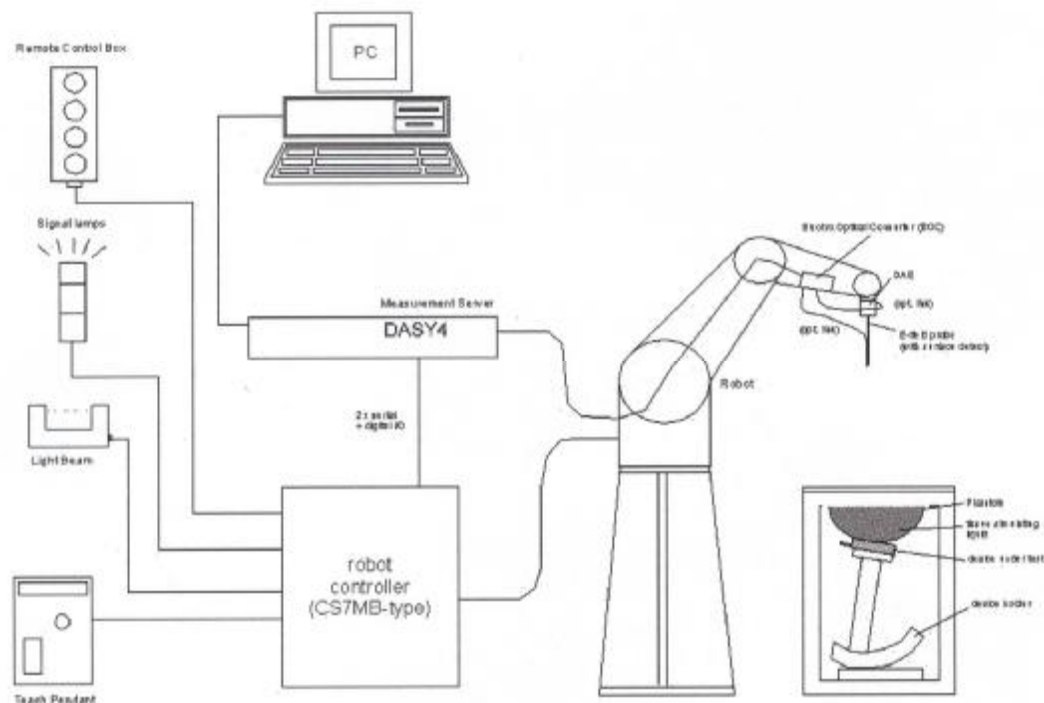


Fig. a SAR System Configuration

- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 2000.
- DASY4 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and body-worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

1.7 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within $\pm 10\%$ from the target SAR values. These tests were done at 900&1800MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the ambient temperature of the laboratory was in the range 22°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

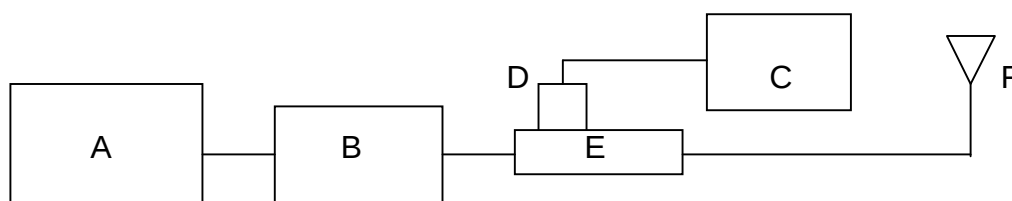


Fig. b the microwave circuit arrangement used for SAR system verification

- A. Agilent Model E4438C Signal Generator
- B. Mini-Circuit Model ZHL-42 Preamplifier
- C. Agilent Model E4416A Power Meter
- D. Agilent Model 8481H Power Sensor
- E. HT CP6100 20N Dual directional coupler
- F. Reference dipole antenna

Validation Kit	Frequency MHz	Target SAR 1g (250mW)	Target SAR 10g (250mW)	Measured SAR 1g	Measured SAR 10g	Measured Date
D900V2 SN:168	900 Head	2.59	1.66	2.63	1.62	2007-12-20
				2.60	1.69	2008-01-08
D900V2 SN:168	900 Body	2.58	1.71	2.52	1.68	2007-12-11
				2.55	1.67	2008-01-03
D1800V2 SN:2d052	1800 Head	9.16	4.89	9.22	4.85	2007-12-06
				9.18	4.88	2007-12-28
				9.14	4.81	2008-01-04
D1800V2 SN:2d052	1800 Body	9.61	5.28	9.57	5.09	2007-12-10

Table 1. Result System Validation

1.8 Tissue Simulant Fluid for the Frequency Band 850MHz/ 1900MHz

The dielectric properties for this body-simulant fluid were measured by using the HP Model 85070D Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Agilent E5071B Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in Table 1. For the SAR measurement given in this report. The temperature variation of the Tissue Simulant Fluid was 22°C.

Frequency (MHz)	Tissue Type	Limit/Measured	Permittivity (ρ)	Conductivity (σ)	Simulated Tissue Temp (°C)
850	Head	Recommended Limit	42.0±5%	0.99±5%	20-24
		Measured, 2007-12-20	41.15	0.968	22.5
		Measured, 2008-01-08	41.18	0.969	22.1
	Body	Recommended Limit	55.0±5%	1.05±5%	20-24
		Measured, 2007-12-11	54.92	1.022	22.7
		Measured, 2008-01-03	54.56	1.019	22.1
1900	Head	Recommended Limit	40.0±5%	1.40±5%	20-24
		Measured, 2007-12-06	39.15	1.445	22.3
		Measured, 2007-12-28	39.48	1.438	21.9
		Measured, 2008-01-04	39.66	1.440	22.6
	Body	Recommended Limit	53.3±5%	1.52±5%	20-24
		Measured, 2007-12-10	51.74	1.566	22.6

Table 2. Dielectric parameters for the Frequency Band 850&1900MHZ

1.9 Test Standards and Limits

According to FCC 47 CFR §2.1093(d) the limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3KHz to 300GHz," ANSI/IEEE C95.1-1992, Copyright 1992 by the Institute of Electrical & Electronics Engineers, Inc., New York, New York 10071.

Human Exposure	Uncontrolled Environment General Population
Spatial Peak SAR (Brain)	1.60 mW/g (averaged over a mass of 1g)

Table 3. RF Exposure Limits

Notes:

1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.

2. Summary of Results

SAR GSM850

Mode	Test Configuration		SAR, Averaged over 1g(W/kg)			Temperature (°C)	Verdict
	Channel/Power(dBm)		Low/33.0	Middle/32.9	High/32.6		
GSM850	Left	Cheek	0.501	0.519	0.492	22	Pass
		Tilt	-	0.323	-	22	Pass
		Worst Case With BT	0.514	-	-	22	Pass
	Right	Cheek	0.494	0.502	0.474	22	Pass
		Tilt	-	0.296	-	22	Pass
		Worst Case With BT	-	0.496	-	22	Pass
	Body	GPRS	0.587	0.549	0.433	22	Pass
		EGPRS	-	0.546	-	22	Pass
		Worst Case With BT	0.574	-	-	22	Pass

SAR PCS1900

Mode	Test Configuration		SAR, Averaged over 1g(W/kg)			Temperature (°C)	Verdict
	Channel/Power(dBm)		Low/31.4	Middle/31/3	High/31.1		
PCS1900	Left	Cheek	0.995	0.893	1.04	22	Pass
		Tilt	-	0.683	-	22	Pass
		Worst Case With BT	-	-	1.07	22	Pass
	Right	Cheek	0.872	0.961	1.1	22	Pass
		Tilt	-	0.756	-	22	Pass
		Worst Case With BT	-	-	1.02	22	Pass
	Body	GPRS	-	0.327	-	22	Pass
		EGPRS	0.496	0.436	0.441	22	Pass

		Worst Case With BT	0.497	-	-	22	Pass
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SAR WCDMA Band V

Mode	Test Configuration		SAR, Averaged over 1g(W/kg)			Temperature (°C)	Verdict
	Channel/Power(dBm)		Low/22.9	Middle/22.7	High/23.0		
W850	Left	Cheek	0.555	0.516	0.593	22	Pass
		Tilt	-	0.345	-	22	Pass
		Worst Case With BT	-	-	0.588	22	Pass
	Right	Cheek	0.544	0.521	0.597	22	Pass
		Tilt	-	0.331	-	22	Pass
		Worst Case With BT	-	-	0.580	22	Pass
	Body	WCDMA	0.841	0.836	0.743	22	Pass
		HSDPA	-	0.835	-	22	Pass
		Worst Case With BT	0.853	-	-	22	Pass

SAR WCDMA Band II

Mode	Test Configuration		SAR, Averaged over 1g(W/kg)			Temperature (°C)	Verdict
	Channel/Power(dBm)		Low/22.4	Middle/22.3	High/22.3		
WCDMA Band II	Left	Cheek	0.830	0.797	0.623	22	Pass
		Tilt	-	0.582	-	22	Pass
		Worst Case With BT	0.813	-	-	22	Pass
	Right	Cheek	0.692	0.670	0.563	22	Pass
		Tilt	-	0.590	-	22	Pass
		Worst Case With BT	0.721	-	-	22	Pass
	Body	WCDMA	0.694	0.515	0.311	22	Pass
		HSDPA	-	0.491	-	22	Pass
		Worst Case With BT	0.667	-	-	22	Pass

Maximum values

Frequency Band (MHz)	EUT position	Conducted Output Power (dBm)	1g Average (W/kg)	Power Drift(dB)	Amb. Temp (°C)	Verdict
850	LeftHandSide, Cheek, Middle Channel with BT	33.0	0.514	0.030	22	PASS
	RightHandSide, Cheek, Middle Channel	32.9	0.502	-0.102	22	PASS
	BodyWorn, GPRS, Low Channel	33.0	0.587	-0.159	22	PASS
1900	LeftHandSide, Cheek, High Channel with BT	31.1	1.07	0.048	22	PASS
	RightHandSide, Cheek, High Channel	31.1	1.1	-0.090	22	PASS
	BodyWorn, EGPRS, Low Channel with BT	31.4	0.497	0.004	22	PASS
WCDMA Band V	LeftHandSide, Cheek, High Channel	23.0	0.593	-0.107	22	PASS
	RightHandSide, Cheek, High Channel	23.0	0.597	0.035	22	PASS
	BodyWorn, Low Channel with BT	22.9	0.853	0.034	22	PASS
WCDMA Band II	LeftHandSide, Cheek, Low Channel	22.4	0.830	0.061	22	PASS
	RightHandSide, Cheek, Low Channel with BT	22.4	0.721	-0.085	22	PASS
	BodyWorn, Low Channel	22.4	0.694	0.076	22	PASS

Note:

1. In GSM850 band, the low, middle and high channels are CH128/824.2MHz, CH189/836.4MHz and CH251/848.8MHz separately.
2. In PCS1900 band, the low, middle and high channels are CH512/1805.2MHz, CH661/1880.0MHz and CH810/1909.8MHz separately.
3. In WCDMA Band V, the low, middle and high channels are CH4132/826.4MHz, CH4182/836.4MHz and CH4233/846.6MHz separately.
4. In WCDMA Band II, the low, middle and high channels are CH12/1852.4MHz, CH9400/1880.0MHz and CH9538/1907.6MHz separately.
5. For the Bodyworn measurements the sample was only placed with the antenna toward the phantom since this position delivers the highest SAR values. The distance from the sample to the phantom is 1.5 cm.
6. For all the tests, EUT is working with the max transmission power and the maximum absolute value of the power drift is 0.310dB which is under the GSM850-LeftHandSide-Cheek-Middle Channel configuration.

3. Instruments List

Instrument	Model	Serial number	NO.	Date of last Calibration
Desktop PC	COMPAQ EVO	N/A	GSM-SAR-025	N/A
Dasy 4 software	V 4.7 build 44	N/A	GSM-SAR-001	N/A
Probe	Ex3DV4	3578	-	2007.04.24
DAE	DAE3	569	GSM-SAR-023	2007.11.19
900MHz system validation dipole	D900V2	168	-	2007.04.25
1800MHz system validation dipole	D1800V2	2d052	-	2007.04.25
Phantom	SAM 12	TP-1283	GSM-SAR-005	N/A
Robot	RX90L	F03/5V32A1/A01	GSM-SAR-006	N/A
Dielectric probe kit	85070D	US01440168	GSM-SAR-016	2007.12.18*
Agilent network analyzer	E5071B	MY42100549	GSM-SAR-007	2007.12.18*
Agilent signal generator	E4438	14438CATO-19719	GSM-SAR-008	2007.12.18*
Mini-Circuits preamplifier	ZHL-42	D041905	GSM-SAR-033	2007.12.18*
Agilent power meter	E4416A	GB41292095	GSM-SAR-010	2007.12.18*
Agilent power sensor	8481H	MY41091234	GSM-SAR-011	2007.12.18*
HT CP6100 20N Coupling	6100	SCP301480120	GSM-SAR-012	2007.12.18*
R&S Universal radio communication tester	CMU200	103633	GSM-AUD-002	2007.12.18*

*The previous calibration date is Dec 19, 2006

4. Measurements

4.1 GSM850-LeftHandSide-Cheek-Middle

Date/Time: 2008-1-8 10:10:42

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Cheek-Middle

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM850-GSM Mode; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: HSL850-Head Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.873$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.96, 6.96, 6.96); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Mid/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.553 mW/g

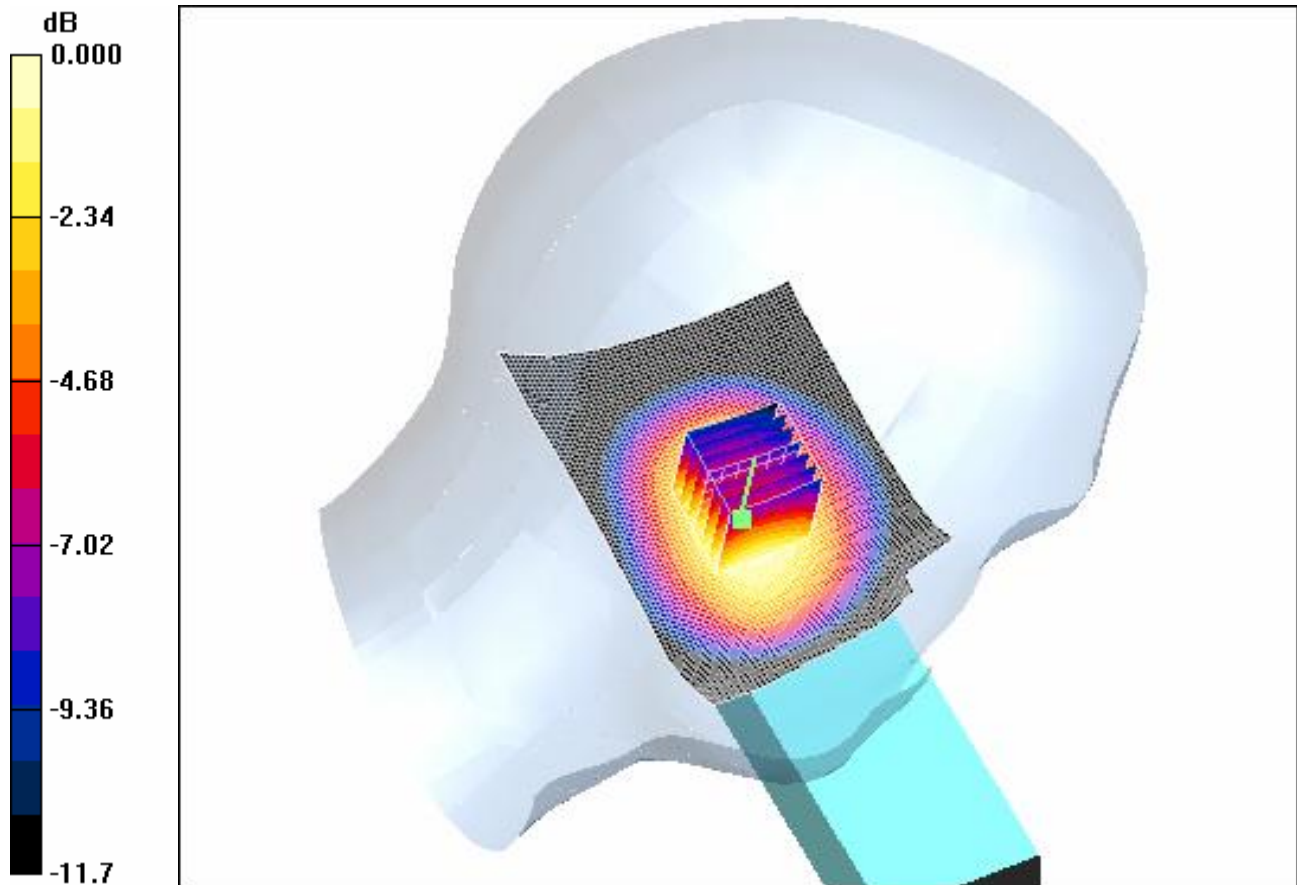
Cheek position - Mid/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.5 V/m; Power Drift = -0.310 dB

Peak SAR (extrapolated) = 0.713 W/kg

SAR(1 g) = 0.519 mW/g; SAR(10 g) = 0.363 mW/g

Maximum value of SAR (measured) = 0.556 mW/g



0 dB = 0.556mW/g

4.2 GSM850-LeftHandSide-Tilt-Middle

Date/Time: 2008-1-8 12:43:35

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Tilt-Middle

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM850-GSM Mode; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: HSL850-Head Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.873$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.96, 6.96, 6.96); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Tilt position - Mid/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.353 mW/g

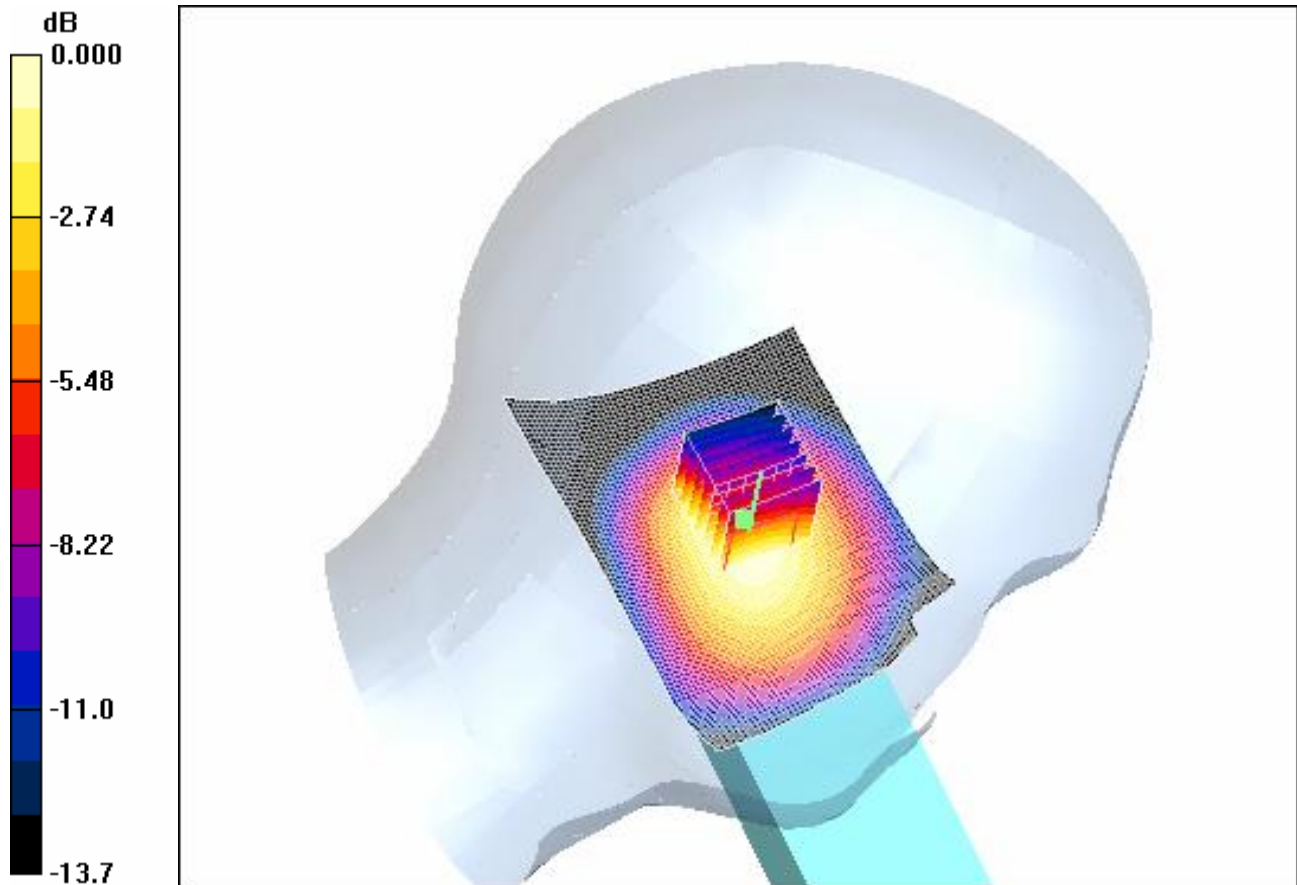
Tilt position - Mid/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.0 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.500 W/kg

SAR(1 g) = 0.323 mW/g; SAR(10 g) = 0.215 mW/g

Maximum value of SAR (measured) = 0.348 mW/g



0 dB = 0.348mW/g

4.3 GSM850-LeftHandSide-Cheek-Low

Date/Time: 2008-1-8 10:37:10

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Cheek-Low

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: HSL850-Head Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.86$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.96, 6.96, 6.96); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Low/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.531 mW/g

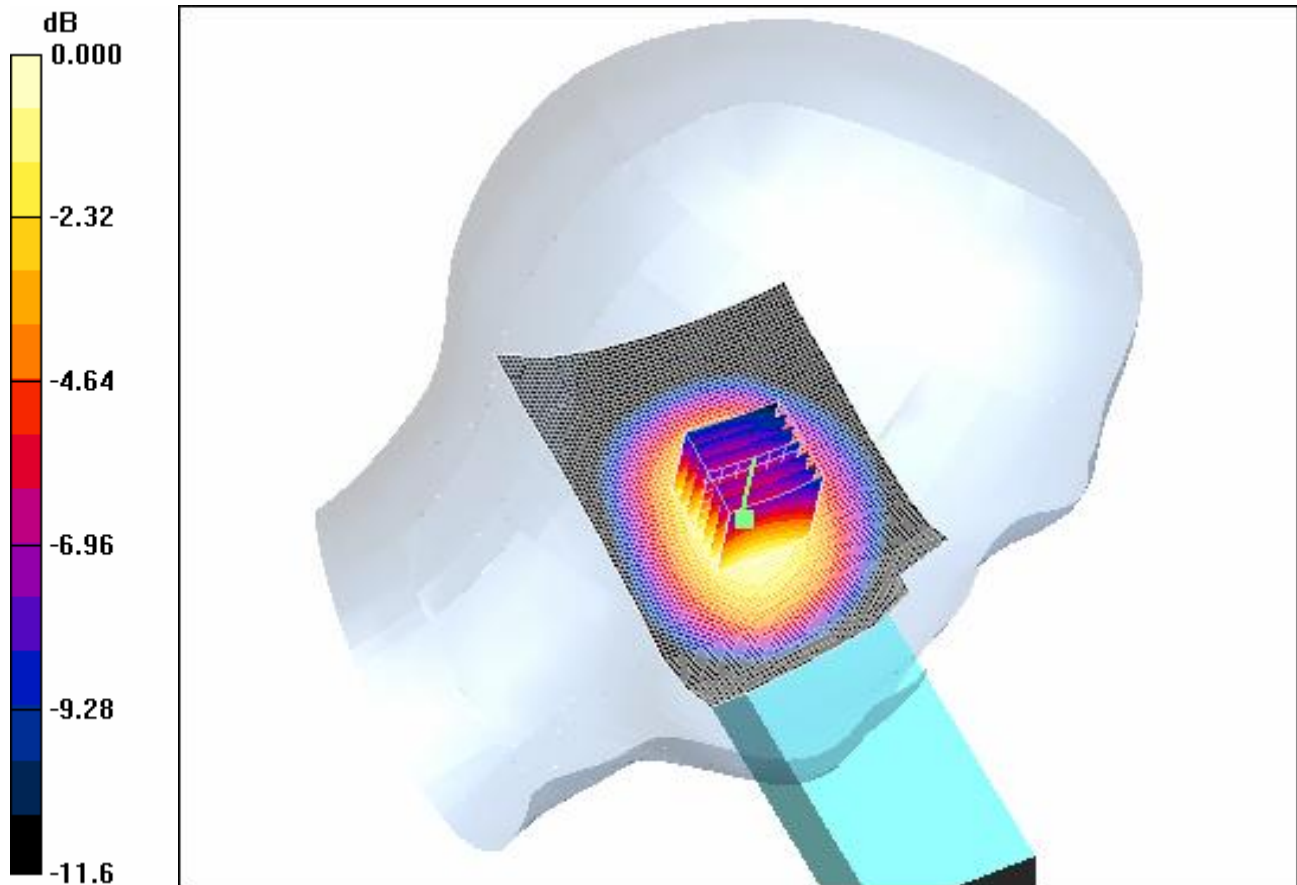
Cheek position - Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.9 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 0.690 W/kg

SAR(1 g) = 0.501 mW/g; SAR(10 g) = 0.349 mW/g

Maximum value of SAR (measured) = 0.537 mW/g



0 dB = 0.537mW/g

4.4 GSM850-LeftHandSide-Cheek-High

Date/Time: 2008-1-8 12:17:11

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Cheek-High

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM850-GSM Mode; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: HSL850-Head Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.887$ mho/m; $\epsilon_r = 43.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.96, 6.96, 6.96); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - High/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.526 mW/g

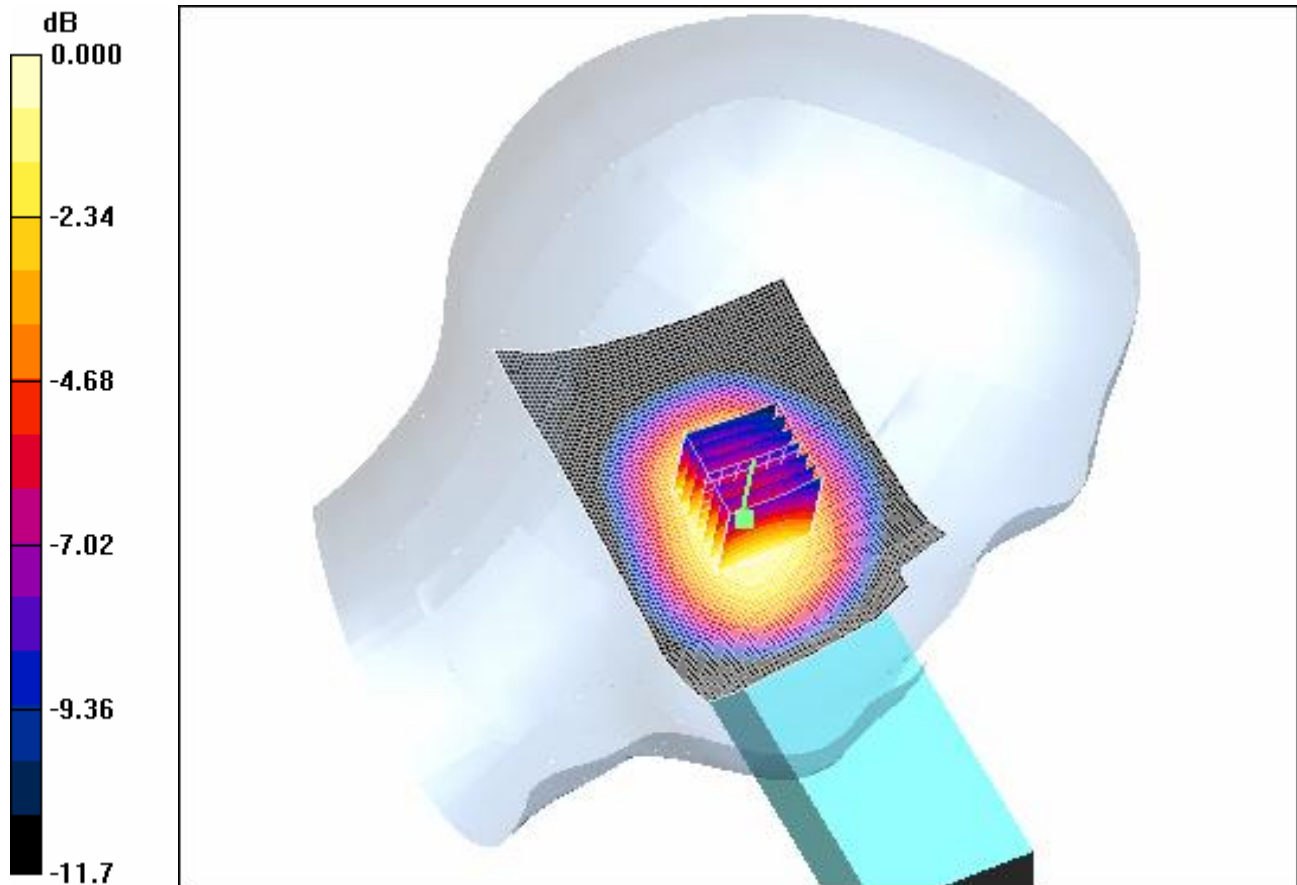
Cheek position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.1 V/m; Power Drift = -0.175 dB

Peak SAR (extrapolated) = 0.687 W/kg

SAR(1 g) = 0.492 mW/g; SAR(10 g) = 0.341 mW/g

Maximum value of SAR (measured) = 0.526 mW/g



0 dB = 0.526mW/g

4.5 GSM850-LeftHandSide-WostCase-BT

Date/Time: 2008-1-8 13:07:32

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Cheek-Middle+BT

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM850-GSM Mode; Frequency: 836.4 MHz;Duty Cycle: 1:8.3

Medium: HSL850-Head Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.873$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.96, 6.96, 6.96); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Mid+BT/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.545 mW/g

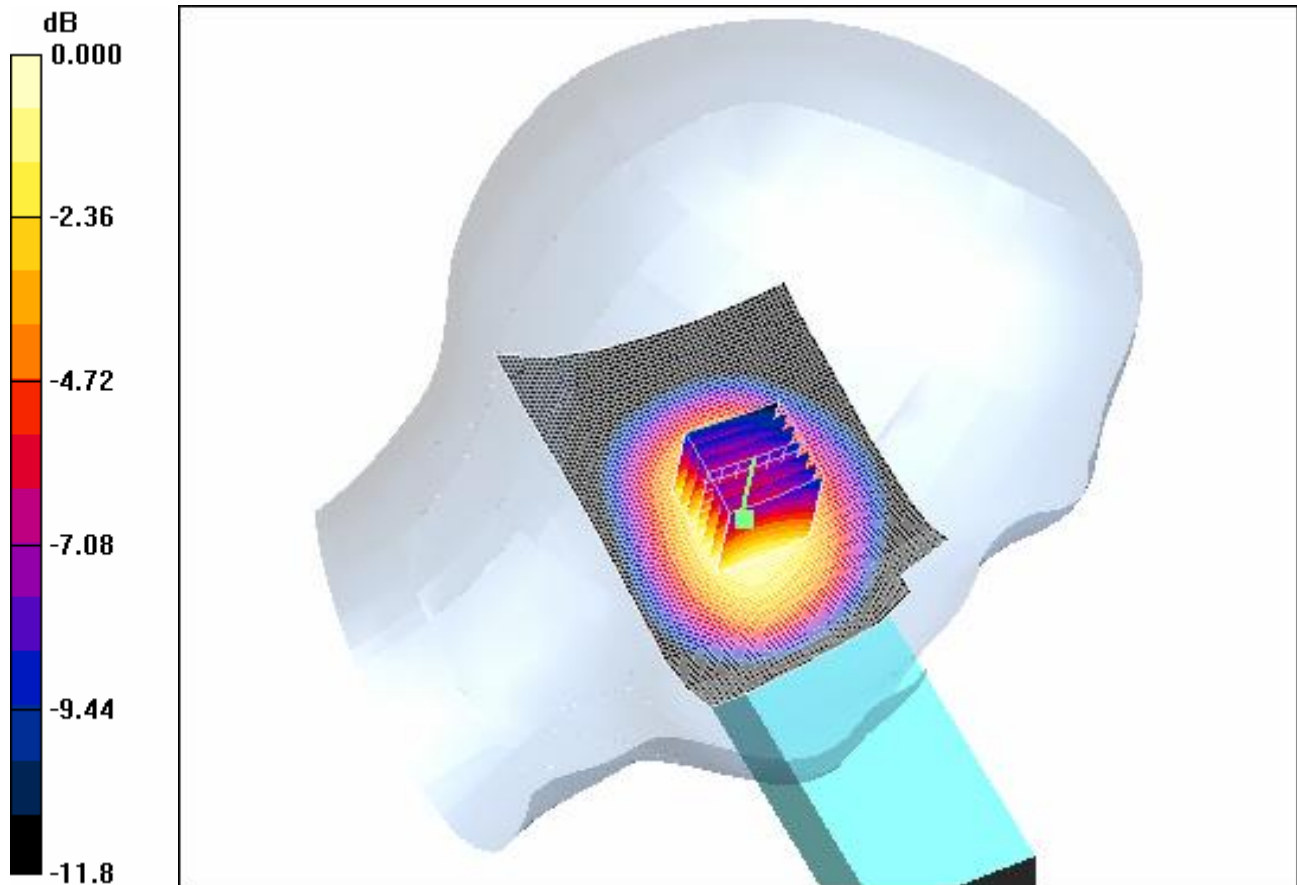
Cheek position - Mid+BT/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.8 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.703 W/kg

SAR(1 g) = 0.514 mW/g; SAR(10 g) = 0.356 mW/g

Maximum value of SAR (measured) = 0.553 mW/g



0 dB = 0.553mW/g

4.6 GSM850-RightHandSide-Cheek-Middle

Date/Time: 2008-1-8 8:04:58

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Cheek-Middle

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM850-GSM Mode; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: HSL850-Head Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.873$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.96, 6.96, 6.96); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.538 mW/g

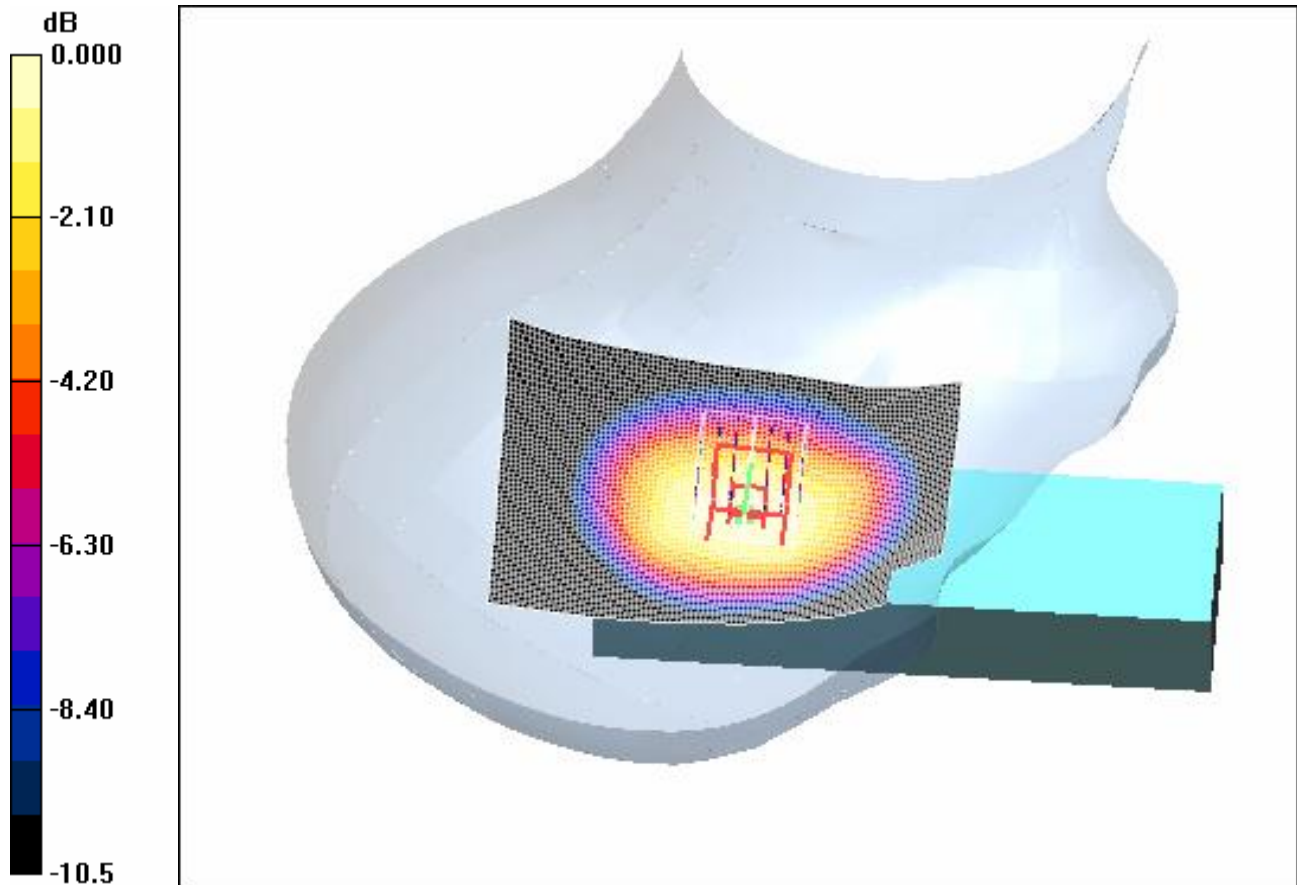
Cheek position - Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.1 V/m; Power Drift = -0.102 dB

Peak SAR (extrapolated) = 0.660 W/kg

SAR(1 g) = 0.502 mW/g; SAR(10 g) = 0.353 mW/g

Maximum value of SAR (measured) = 0.536 mW/g



0 dB = 0.536mW/g

4.7 GSM850-RightHandSide-Tilt-Middle

Date/Time: 2008-1-8 16:37:33

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Tilt-Middle

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM850-GSM Mode; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: HSL850-Head Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.873$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.96, 6.96, 6.96); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Tilt position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.317 mW/g

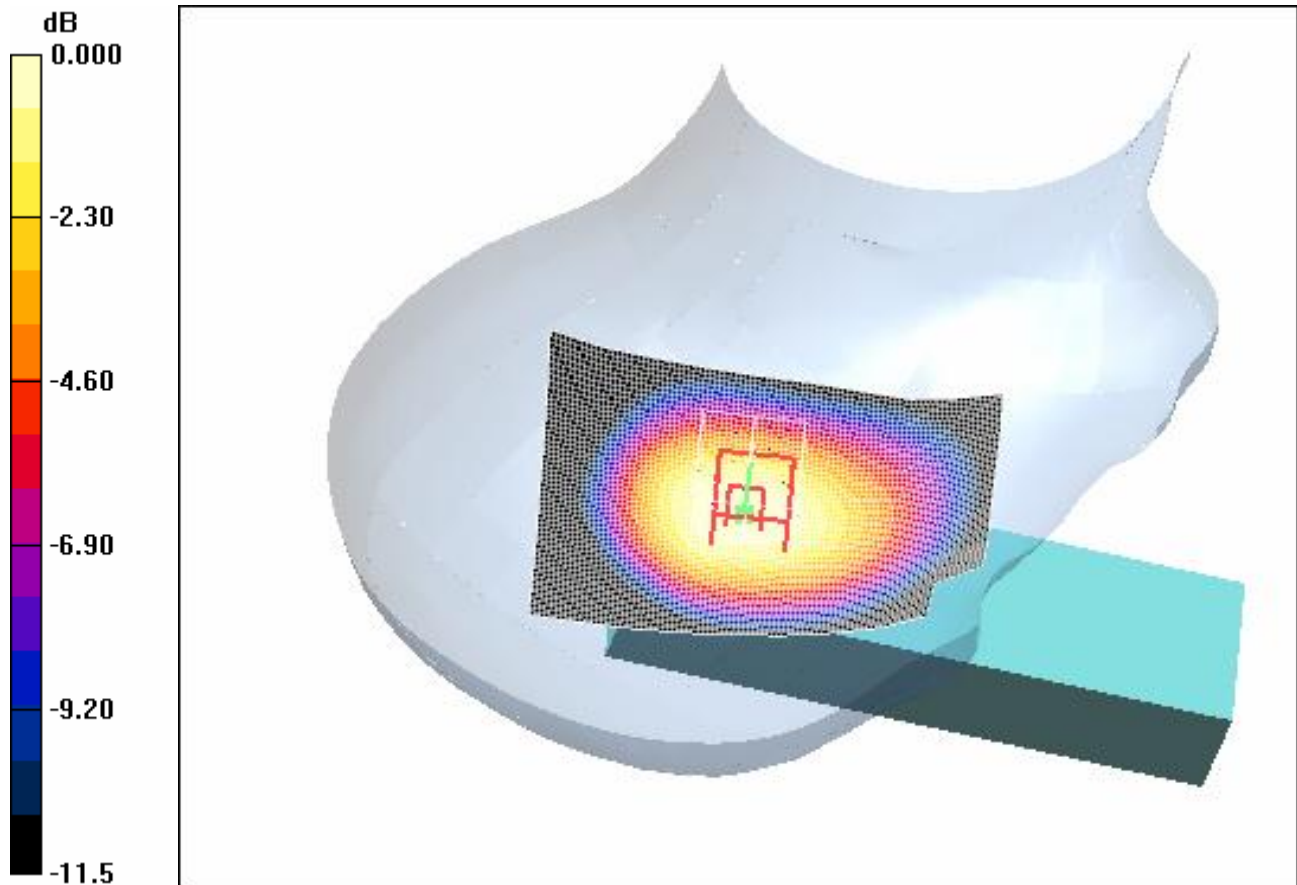
Tilt position - Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.0 V/m; Power Drift = -0.121 dB

Peak SAR (extrapolated) = 0.387 W/kg

SAR(1 g) = 0.296 mW/g; SAR(10 g) = 0.210 mW/g

Maximum value of SAR (measured) = 0.317 mW/g



0 dB = 0.317mW/g

4.8 GSM850-RightHandSide-Cheek-Low

Date/Time: 2008-1-8 8:45:53

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Cheek-Low

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: HSL850-Head Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.86$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.96, 6.96, 6.96); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Low/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.518 mW/g

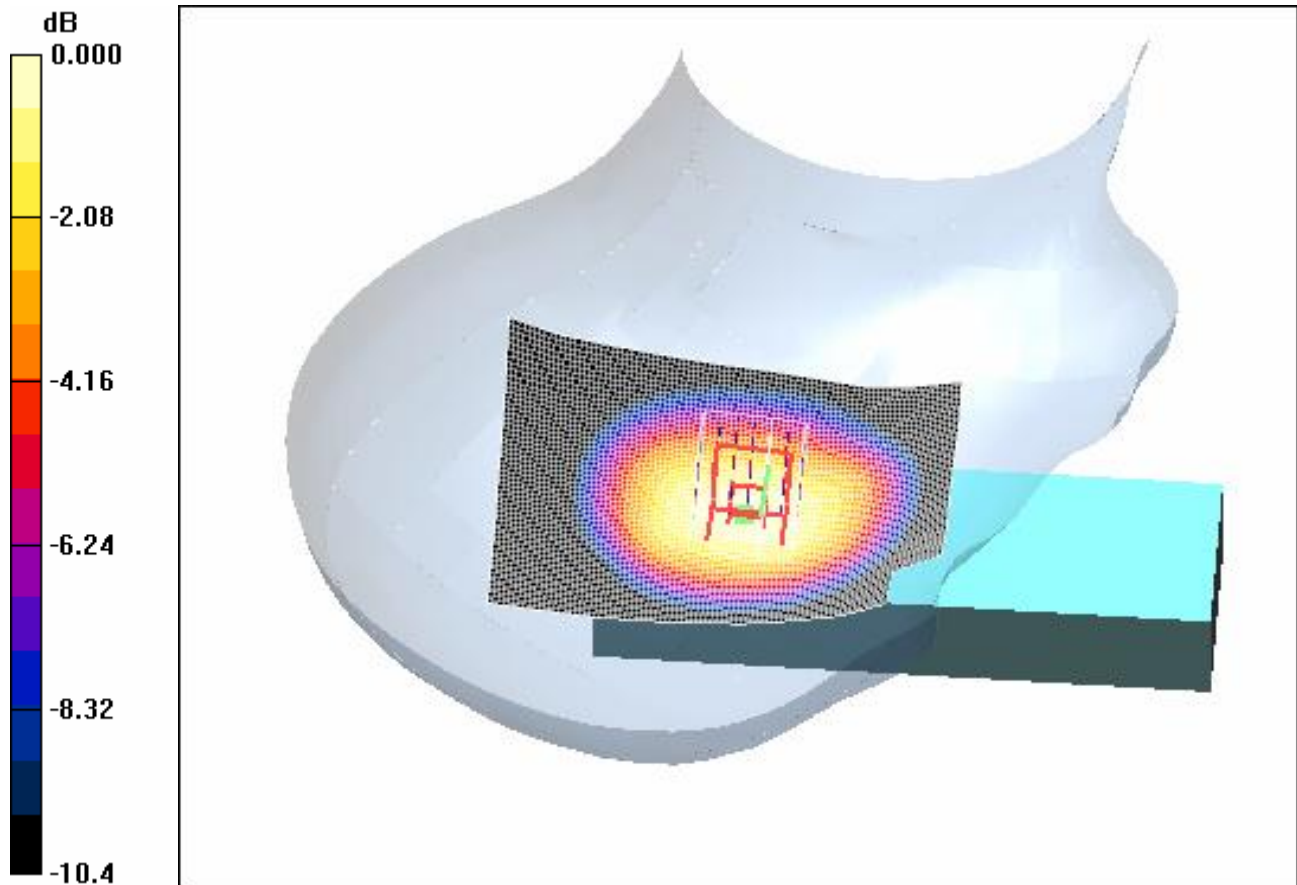
Cheek position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.9 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 0.646 W/kg

SAR(1 g) = 0.494 mW/g; SAR(10 g) = 0.349 mW/g

Maximum value of SAR (measured) = 0.525 mW/g



0 dB = 0.525mW/g

4.9 GSM850-RightHandSide-Cheek-High

Date/Time: 2008-1-8 9:20:26

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Cheek-High

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM850-GSM Mode; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: HSL850-Head Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.887 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.96, 6.96, 6.96); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - High/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.507 mW/g

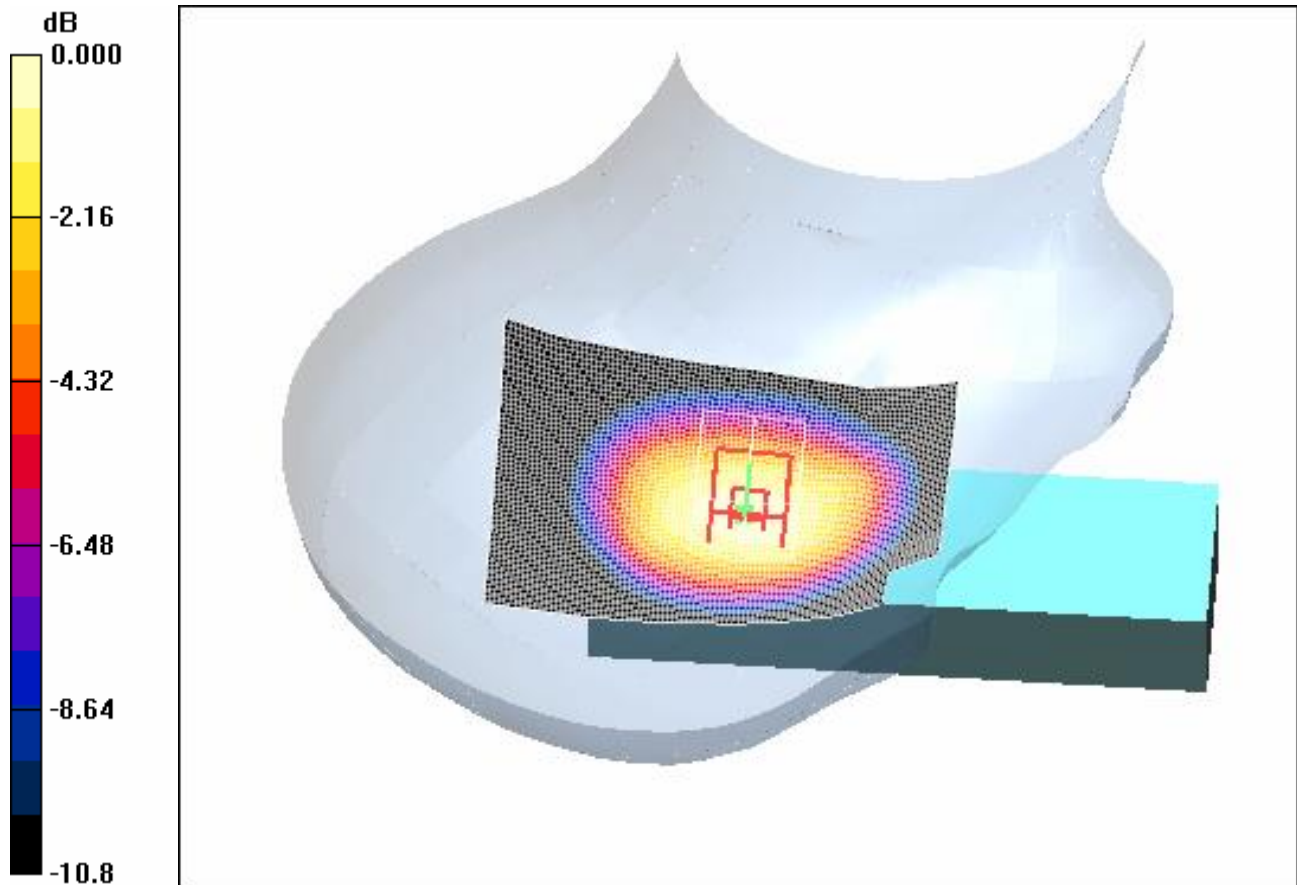
Cheek position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.0 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.622 W/kg

SAR(1 g) = 0.474 mW/g; SAR(10 g) = 0.334 mW/g

Maximum value of SAR (measured) = 0.514 mW/g



0 dB = 0.514mW/g

4.10 GSM850-RightHandSide-WorstCase-BT

Date/Time: 2008-1-8 9:44:11

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Cheek-Middle+BT

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM850-GSM Mode; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: HSL850-Head Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.873$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.96, 6.96, 6.96); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Mid+BT/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.537 mW/g

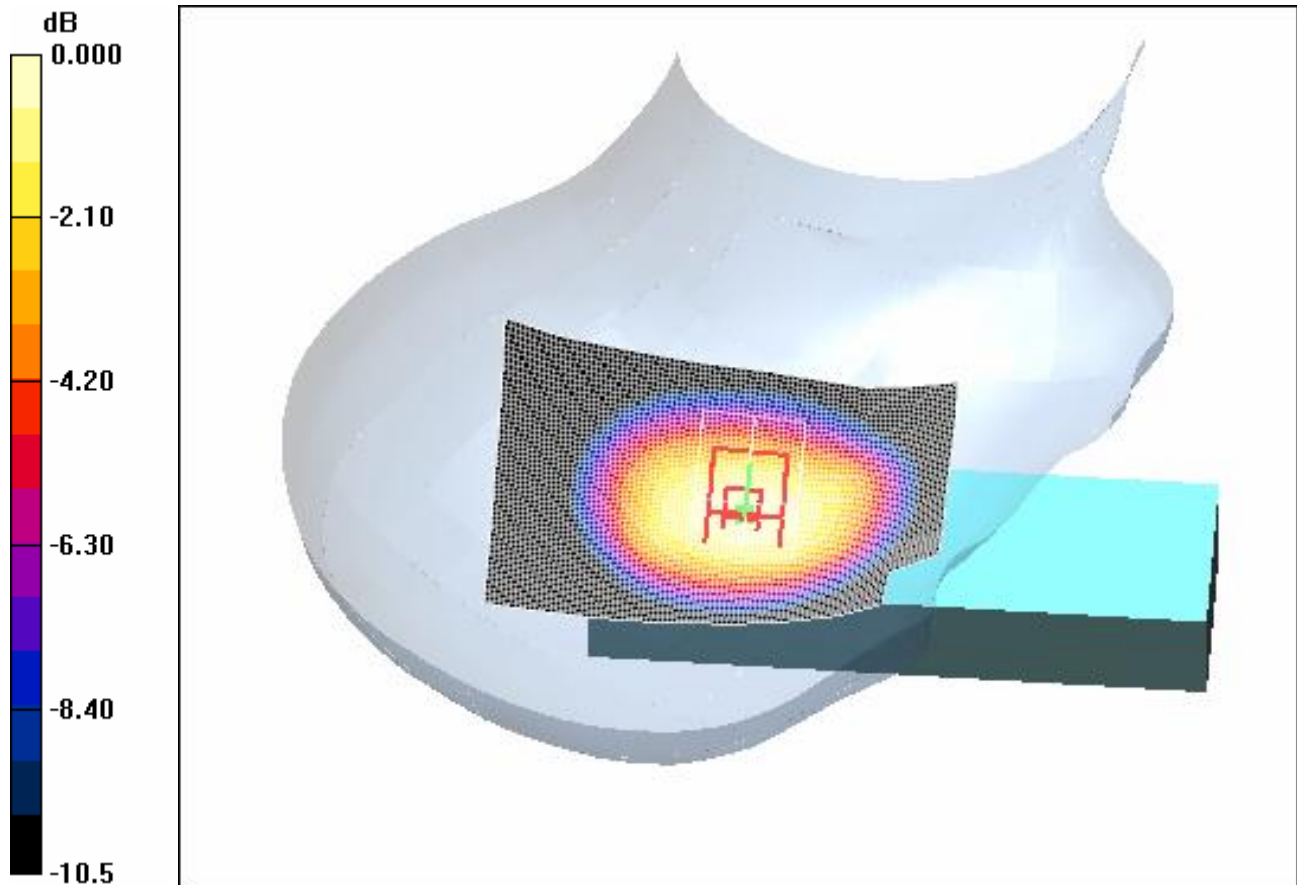
Cheek position - Mid+BT/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.7 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.654 W/kg

SAR(1 g) = 0.496 mW/g; SAR(10 g) = 0.350 mW/g

Maximum value of SAR (measured) = 0.530 mW/g



0 dB = 0.530mW/g

4.11 GSM850-Body-Worn-GPRS-Middle

Date/Time: 2008-1-3 13:25:24

Test Laboratory: SGS-GSM

GSM850-Body-Worn-GPRS-Middle-1.5cm

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM850-GPRS Mode; Frequency: 836.4 MHz; Duty Cycle: 1:4

Medium: HSL850-Body Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.991$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.02, 8.02, 8.02); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.583 mW/g

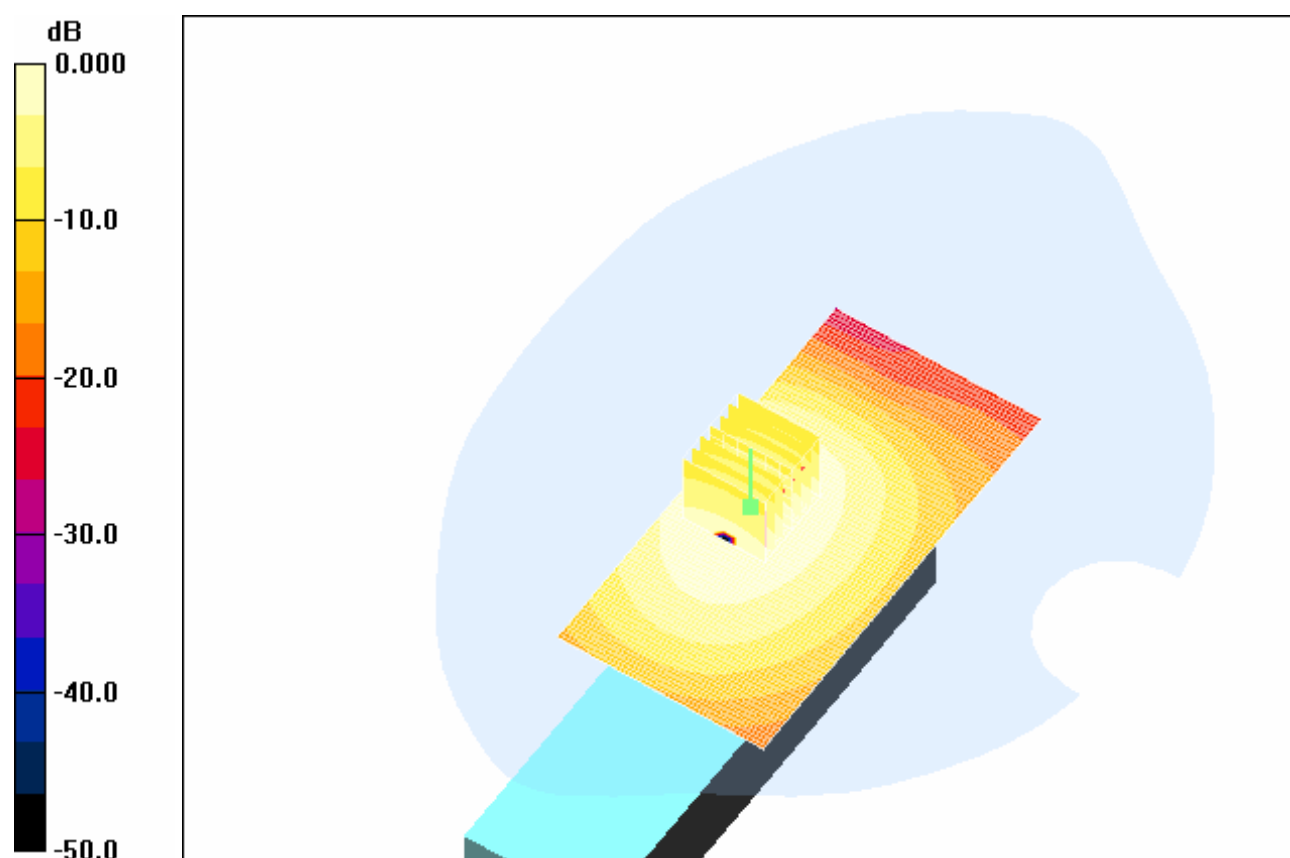
Body Worn - Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.8 V/m; Power Drift = -0.104 dB

Peak SAR (extrapolated) = 0.756 W/kg

SAR(1 g) = 0.549 mW/g; SAR(10 g) = 0.388 mW/g

Maximum value of SAR (measured) = 0.569 mW/g



$$0 \text{ dB} = 0.569 \text{ mW/g}$$

4.12 GSM850-Body-Worn-EGPRS-Middle

Date/Time: 2008-1-3 14:27:35

Test Laboratory: SGS-GSM

GSM850-Body-Worn-EGPRS-Middle-1.5cm

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM850-EGPRS Mode; Frequency: 836.4 MHz; Duty Cycle: 1:4

Medium: HSL850-Body Medium parameters used: $f = 836.4 \text{ MHz}$; $\sigma = 0.991 \text{ mho/m}$; $\epsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.02, 8.02, 8.02); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.579 mW/g

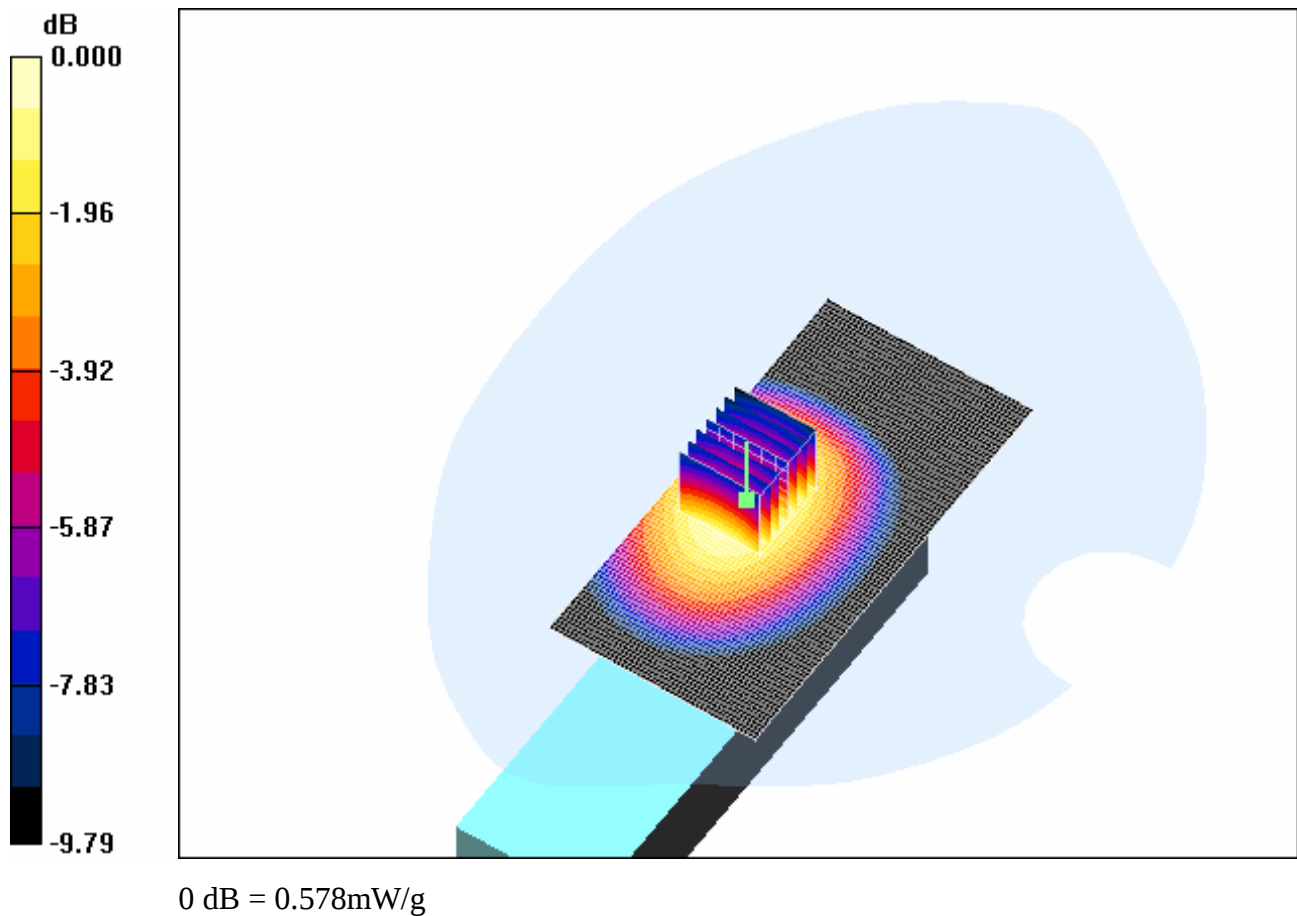
Body Worn - Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.8 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.738 W/kg

SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.390 mW/g

Maximum value of SAR (measured) = 0.578 mW/g



4.13 GSM850-Body-Worn-WorstCase-Low

Date/Time: 2008-1-3 14:50:24

Test Laboratory: SGS-GSM

GSM850-Body-Worn-GPRS-Low-1.5cm

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM850-GPRS Mode; Frequency: 824.2 MHz; Duty Cycle: 1:4

Medium: HSL850-Body Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.974$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.02, 8.02, 8.02); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Low/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.636 mW/g

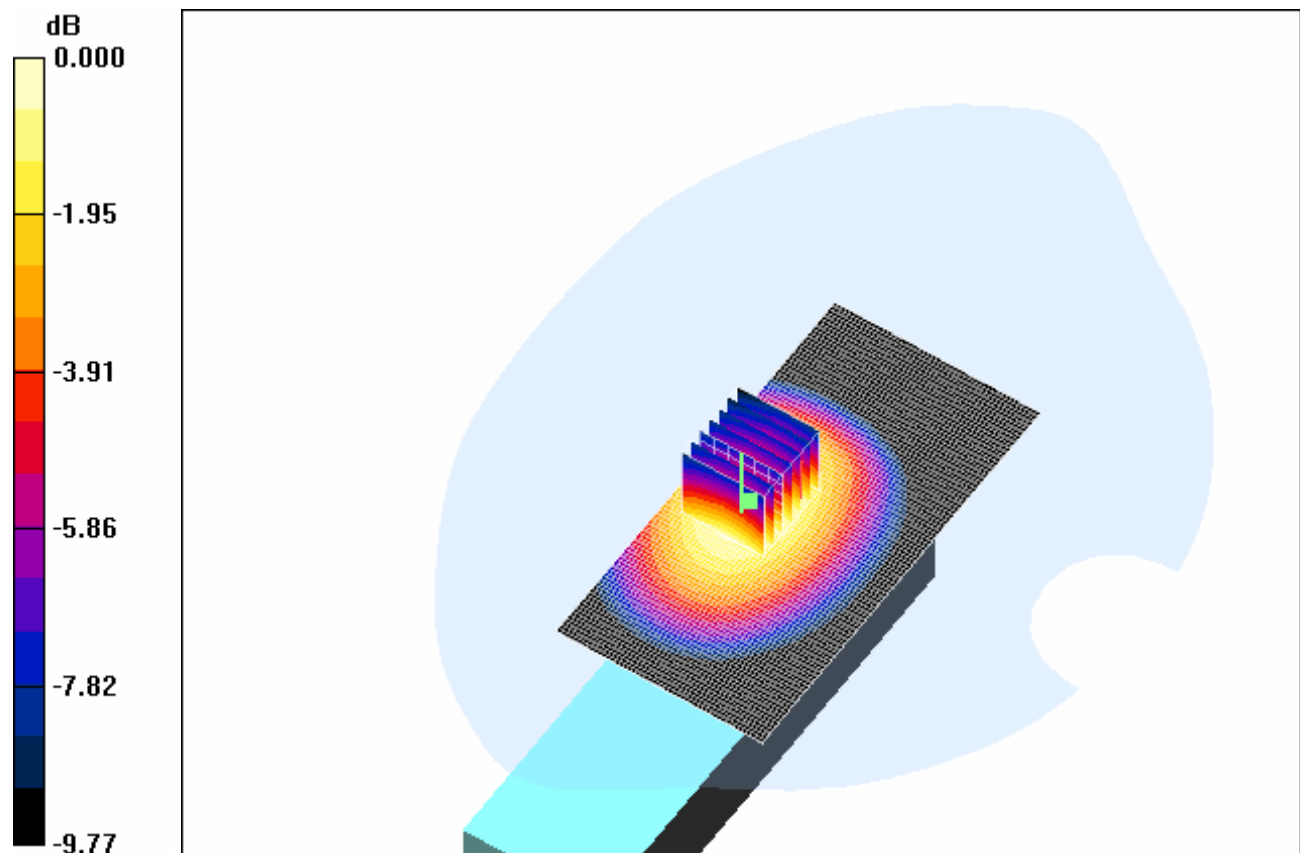
Body Worn - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.9 V/m; Power Drift = -0.159 dB

Peak SAR (extrapolated) = 0.789 W/kg

SAR(1 g) = 0.587 mW/g; SAR(10 g) = 0.423 mW/g

Maximum value of SAR (measured) = 0.625 mW/g



$$0 \text{ dB} = 0.625 \text{ mW/g}$$

4.14 GSM850-Body-Worn-WorstCase-High

Date/Time: 2008-1-3 15:21:16

Test Laboratory: SGS-GSM

GSM850-Body-Worn-GPRS-High-1.5cm

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM850-GPRS Mode; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium: HSL850-Body Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 54.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.02, 8.02, 8.02); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - High/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.461 mW/g

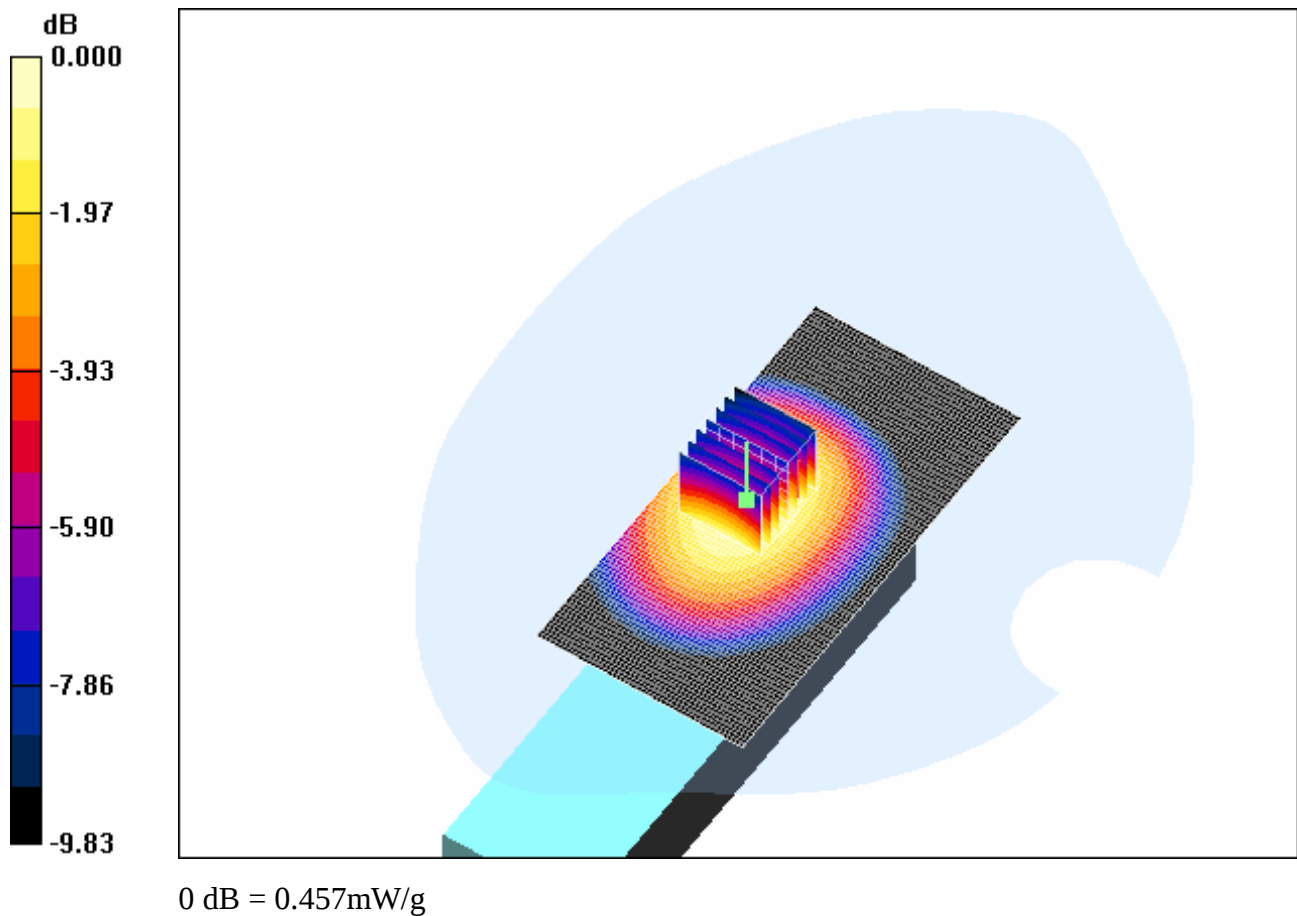
Body Worn - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.8 V/m; Power Drift = 0.003 dB

Peak SAR (extrapolated) = 0.582 W/kg

SAR(1 g) = 0.433 mW/g; SAR(10 g) = 0.310 mW/g

Maximum value of SAR (measured) = 0.457 mW/g



4.15 GSM850-Body-Worn-WorstCase-BT

Date/Time: 2008-1-3 15:43:55

Test Laboratory: SGS-GSM

GSM850-Body-Worn-GPRS-Low-1.5cm+BT

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM850-GPRS Mode; Frequency: 824.2 MHz; Duty Cycle: 1:4

Medium: HSL850-Body Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.974 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.02, 8.02, 8.02); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn -Lowh+BT/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.609 mW/g

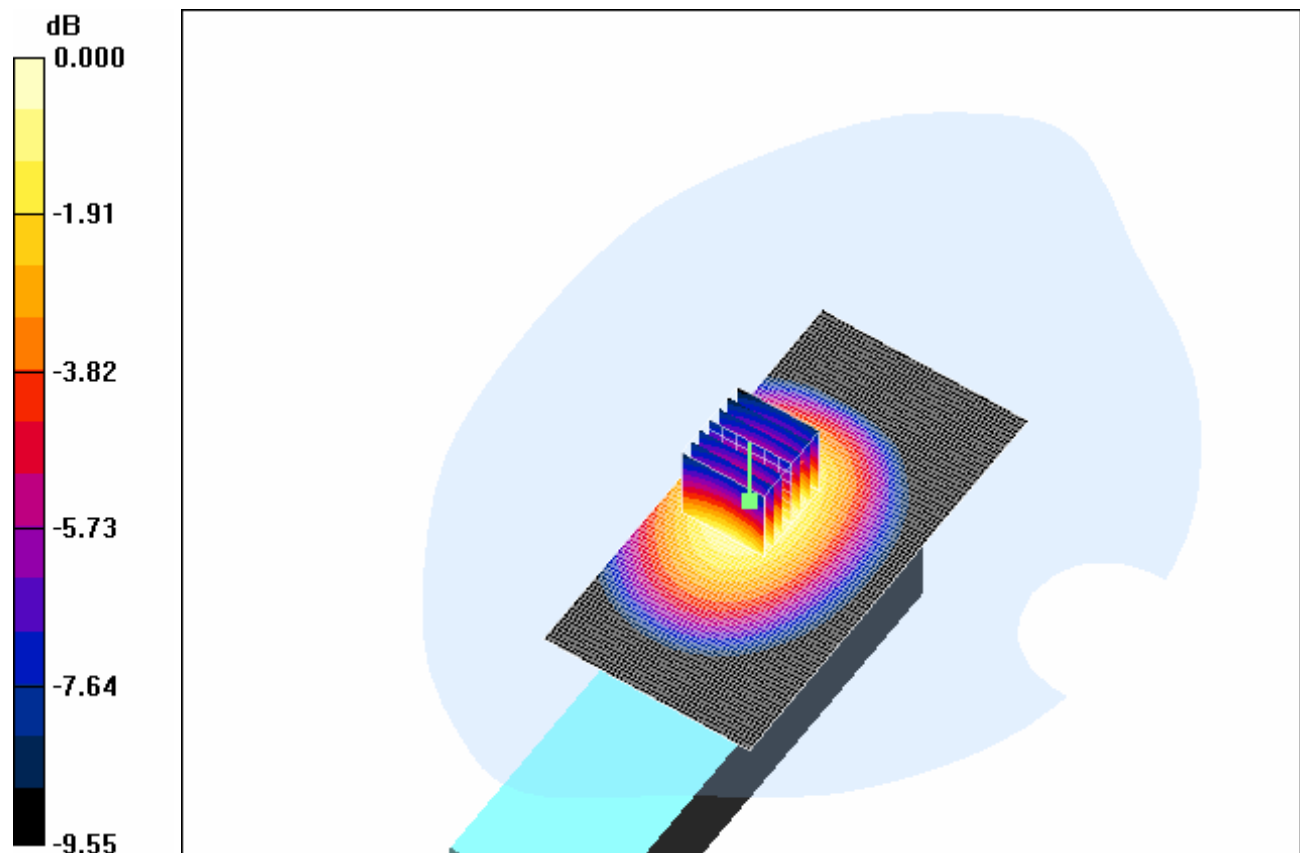
Body Worn -Lowh+BT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.9 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.769 W/kg

SAR(1 g) = 0.574 mW/g; SAR(10 g) = 0.411 mW/g

Maximum value of SAR (measured) = 0.611 mW/g



$$0 \text{ dB} = 0.611 \text{ mW/g}$$

4.16 PCS1900-LeftHandSide-Cheek-Middle

Date/Time: 2007-12-6 9:18:59

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Cheek-Middle

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: PCS1900-GSM Mode; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900_Head Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Mid/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.02 mW/g

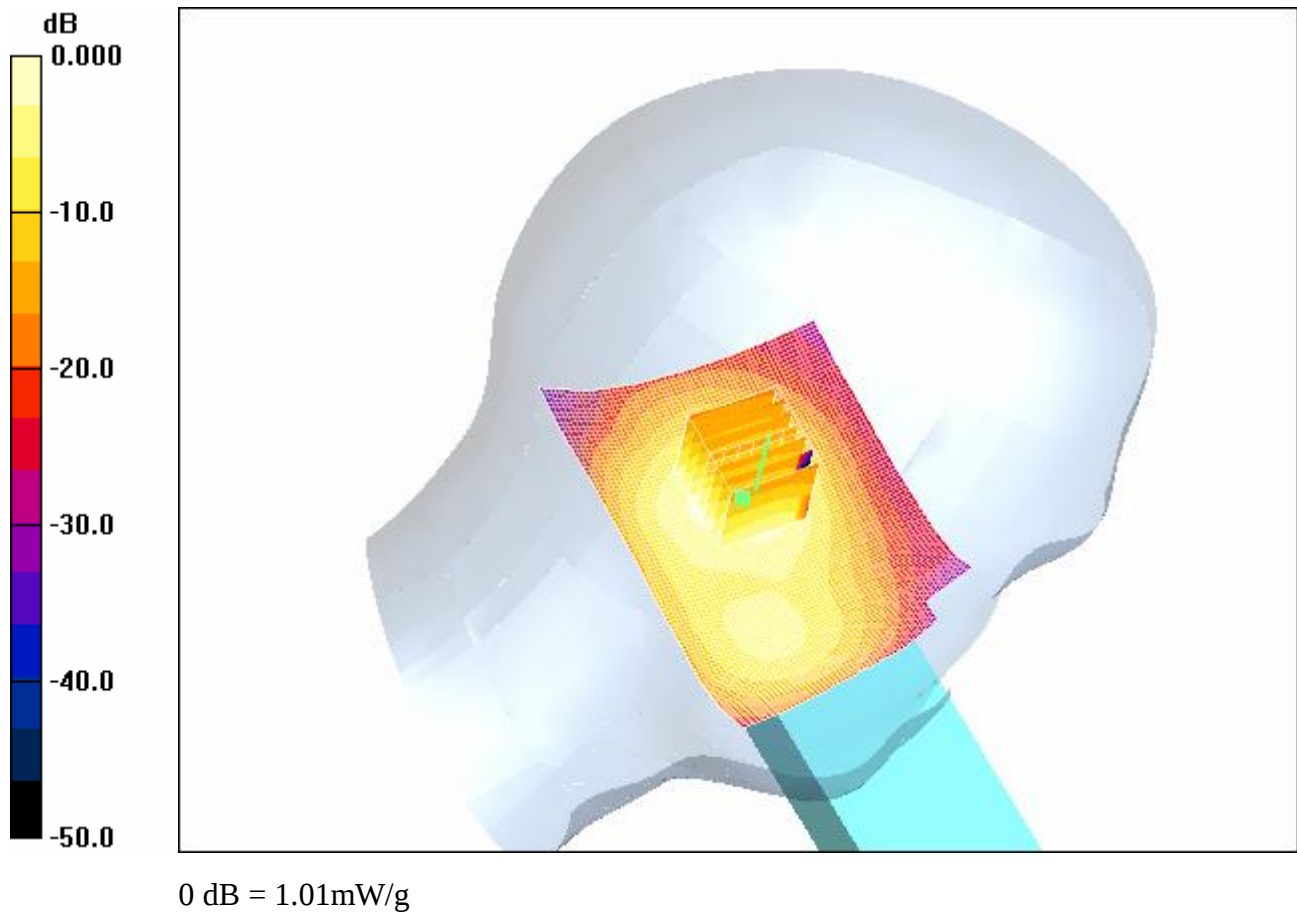
Cheek position - Mid/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.8 V/m; Power Drift = -0.086 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 0.893 mW/g; SAR(10 g) = 0.457 mW/g

Maximum value of SAR (measured) = 1.01 mW/g



4.17 PCS1900-LeftHandSide-Tilt-Middle

Date/Time: 2007-12-6 10:28:35

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Tilt-Middle

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: PCS1900-GSM Mode; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900_Head Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Tilt/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.875 mW/g

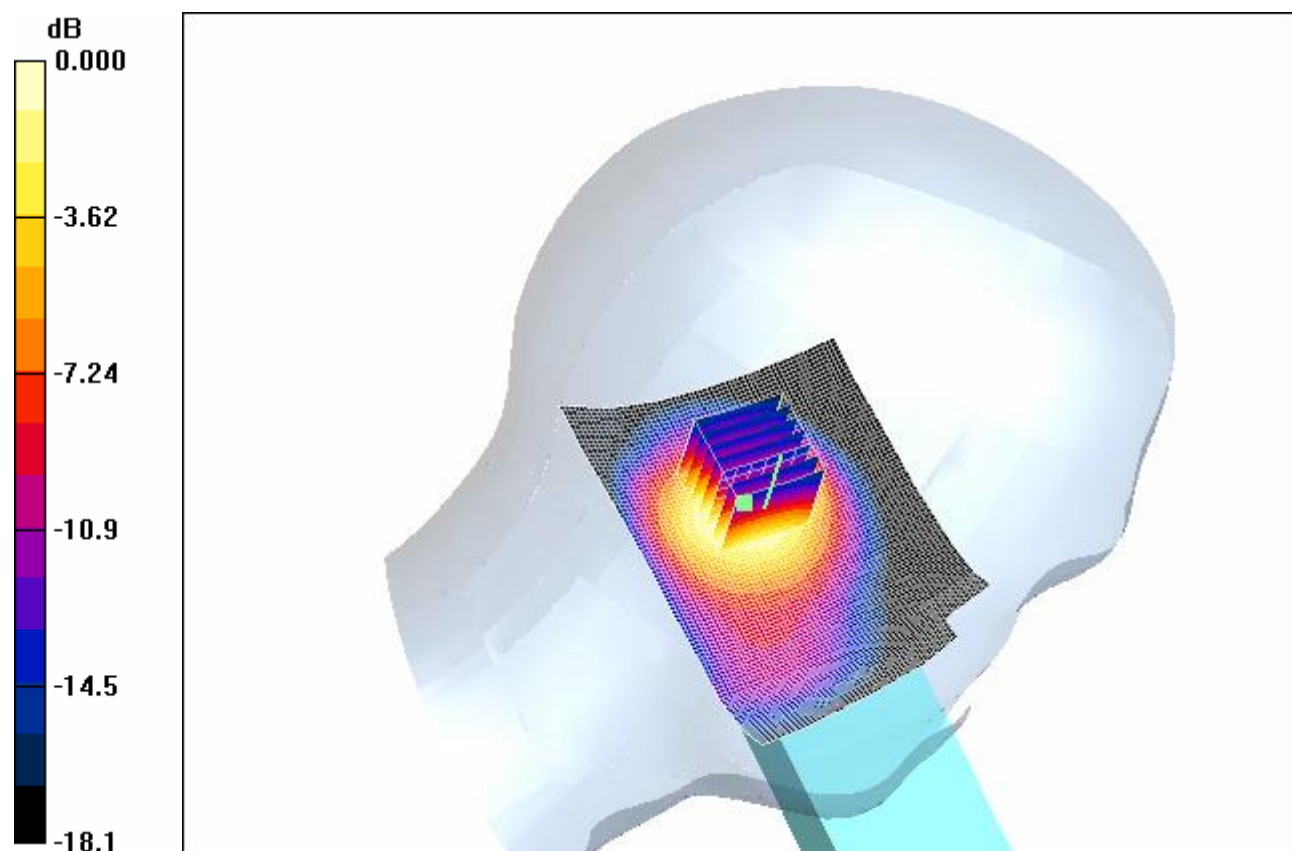
Cheek position - Tilt/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.0 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.683 mW/g; SAR(10 g) = 0.386 mW/g

Maximum value of SAR (measured) = 0.735 mW/g



0 dB = 0.735mW/g

4.18 PCS1900-LeftHandSide-Cheek-Low

Date/Time: 2007-12-6 9:40:47

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Cheek-Low

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: PCS1900-GSM Mode; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: HSL1900_Head Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Low/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.13 mW/g

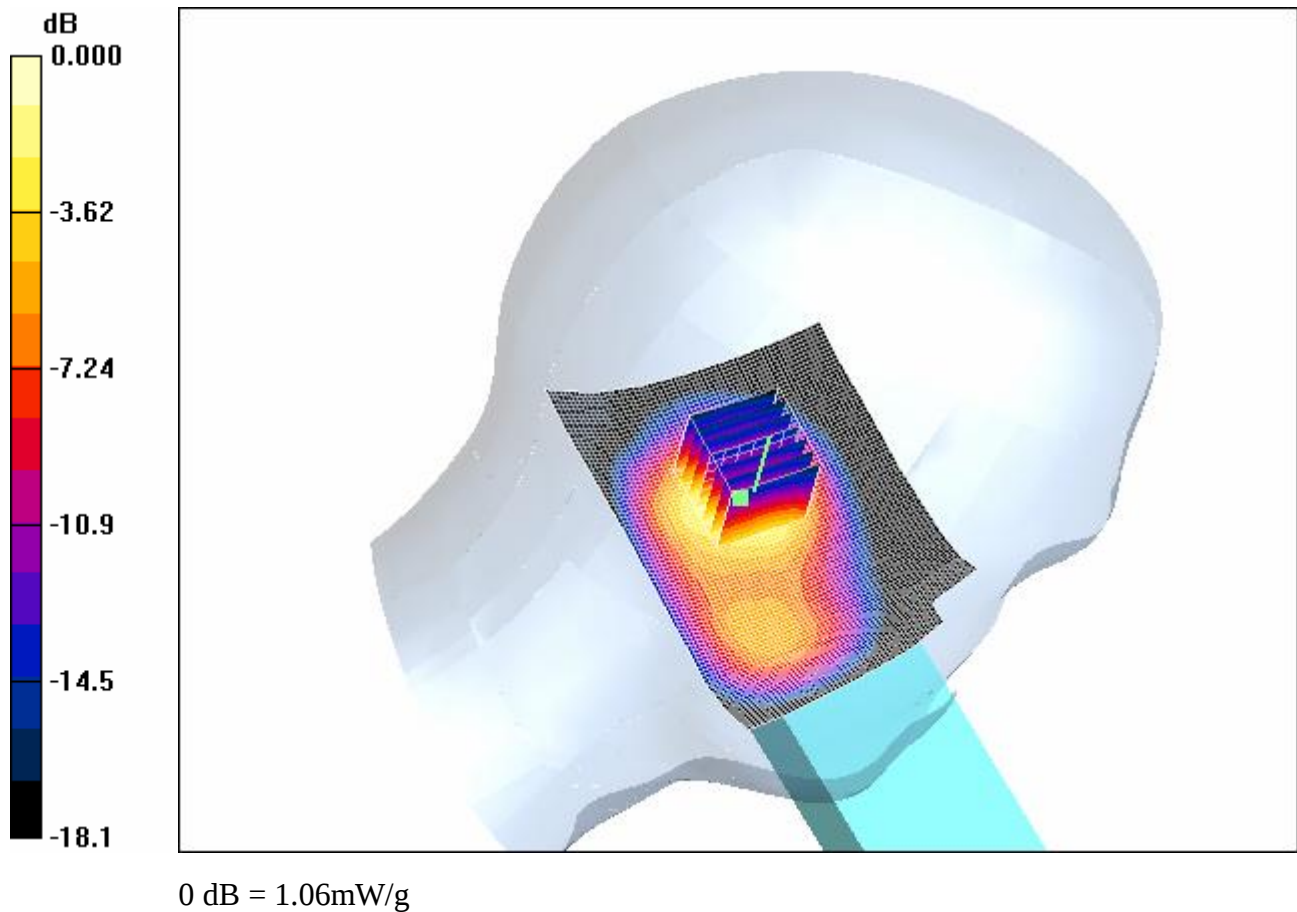
Cheek position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.5 V/m; Power Drift = 0.053 dB

Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 0.955 mW/g; SAR(10 g) = 0.499 mW/g

Maximum value of SAR (measured) = 1.06 mW/g



4.19 PCS1900-LeftHandSide-Cheek-High

Date/Time: 2007-12-6 10:02:57

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Cheek-High

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: PCS1900-GSM Mode; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: HSL1900_Head Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - High/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.22 mW/g

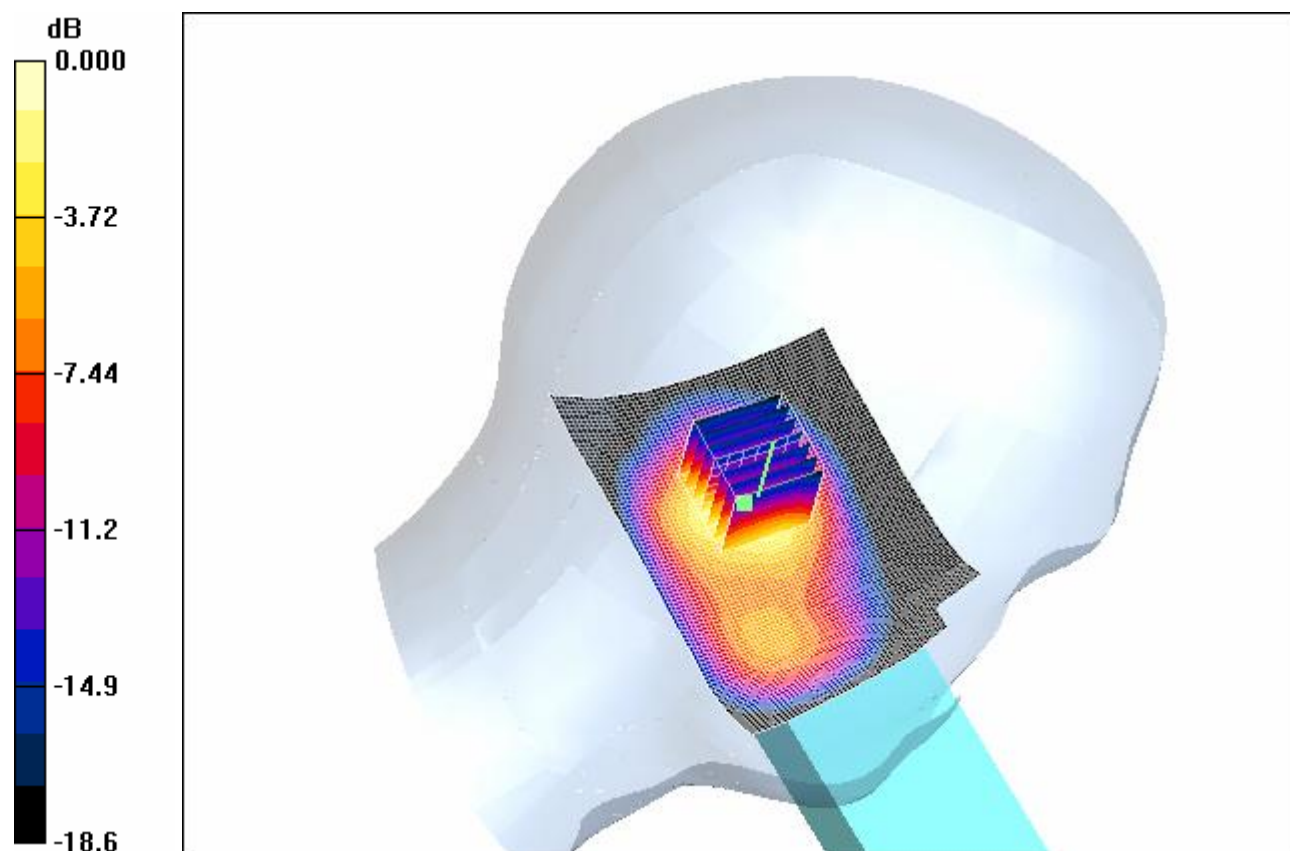
Cheek position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.2 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 2.10 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.533 mW/g

Maximum value of SAR (measured) = 1.16 mW/g



0 dB = 1.16mW/g

4.20 PCS1900-LeftHandSide-WorstCase-BT

Date/Time: 2007-12-6 11:03:41

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Cheek-High+BT

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: PCS1900-GSM Mode; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: HSL1900_Head Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - High +BT/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.22 mW/g

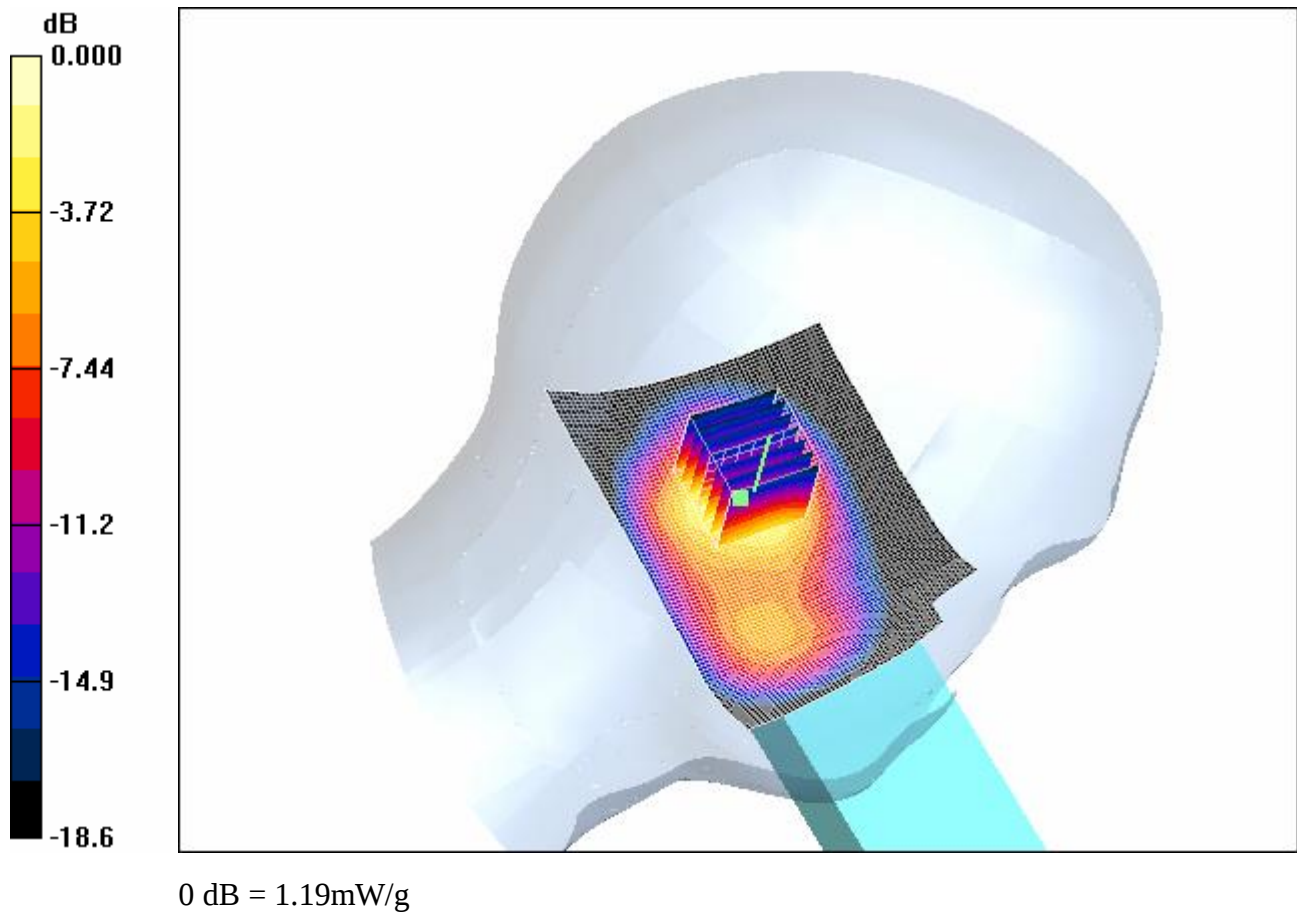
Cheek position - High +BT/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.2 V/m; Power Drift = 0.048 dB

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.545 mW/g

Maximum value of SAR (measured) = 1.19 mW/g



4.21 PCS1900-RightHandSide-Cheek-Middle

Date/Time: 2007-12-6 15:58:28

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Cheek-Middle

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: PCS1900-GSM Mode; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900_Head Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Mid /Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.09 mW/g

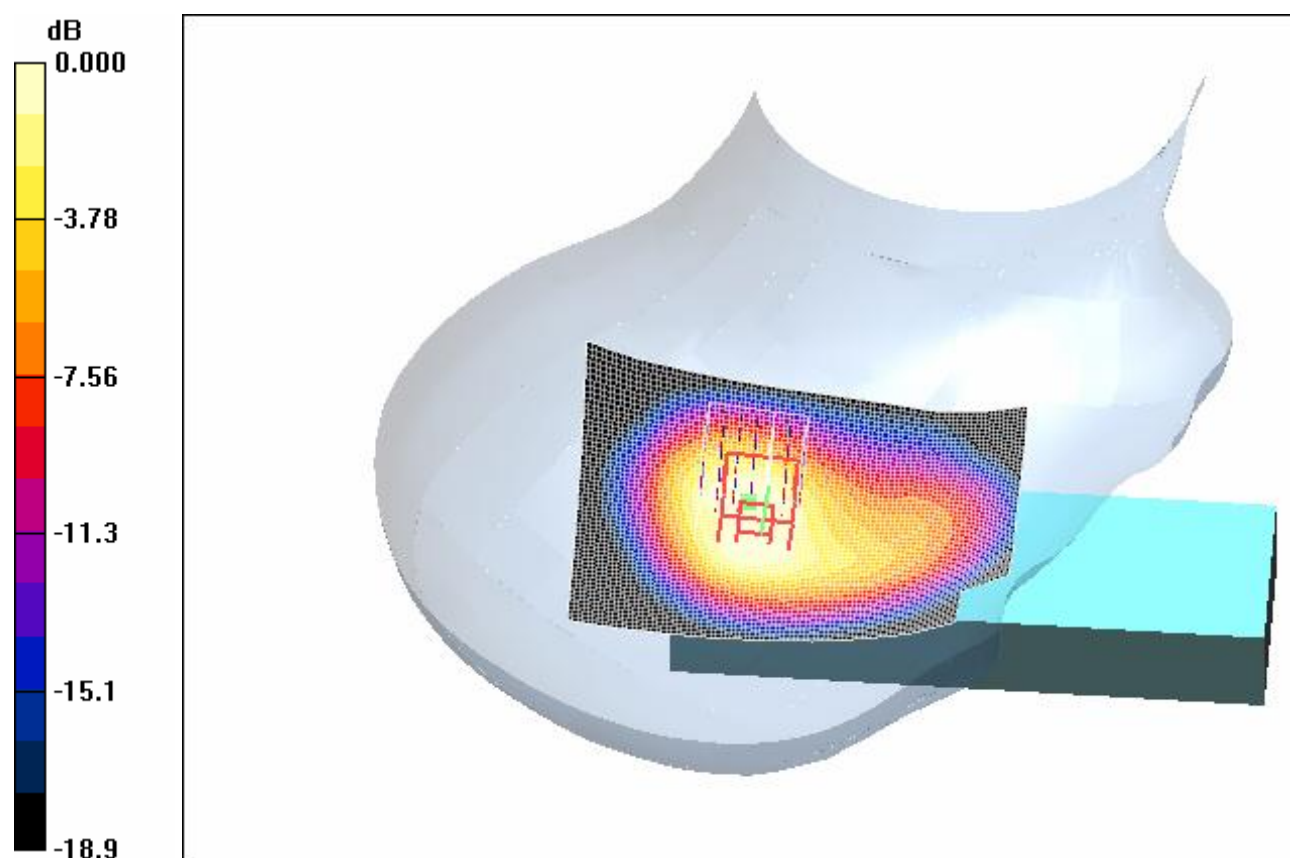
Cheek position - Mid /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.7 V/m; Power Drift = 0.088 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.961 mW/g; SAR(10 g) = 0.556 mW/g

Maximum value of SAR (measured) = 1.04 mW/g



0 dB = 1.04mW/g

4.22 PCS1900-RightHandSide-Tilt-Middle

Date/Time: 2007-12-6 21:53:49

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Tilt-Middle

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: PCS1900-GSM Mode; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900_Head Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Tilt position - Mid/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.892 mW/g

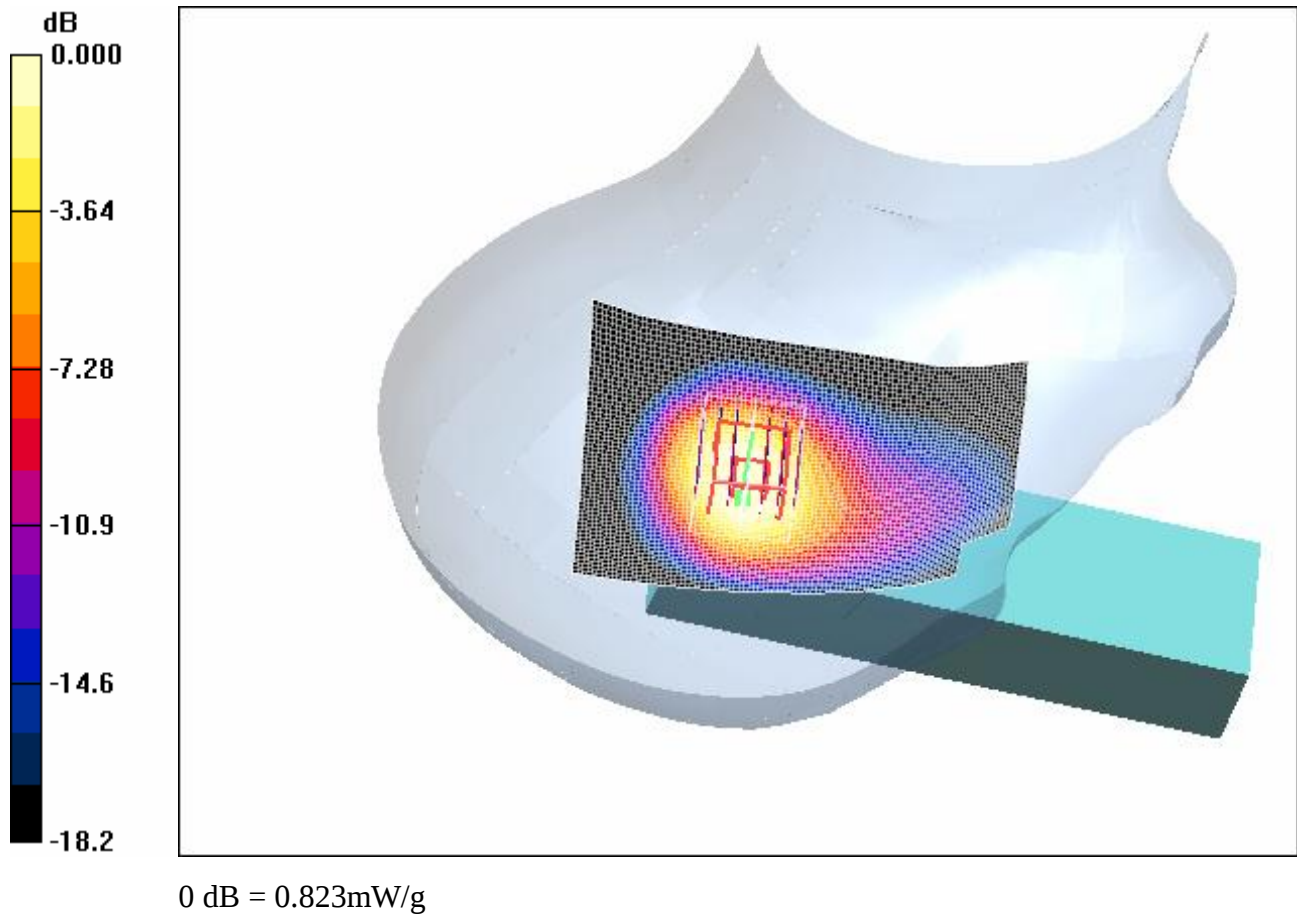
Tilt position - Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.8 V/m; Power Drift = 0.003 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.756 mW/g; SAR(10 g) = 0.425 mW/g

Maximum value of SAR (measured) = 0.823 mW/g



4.23 PCS1900-RightHandSide-Cheek-Low

Date/Time: 2007-12-6 15:22:12

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Cheek-Low

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: PCS1900-GSM Mode; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: HSL1900_Head Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Low/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.05 mW/g

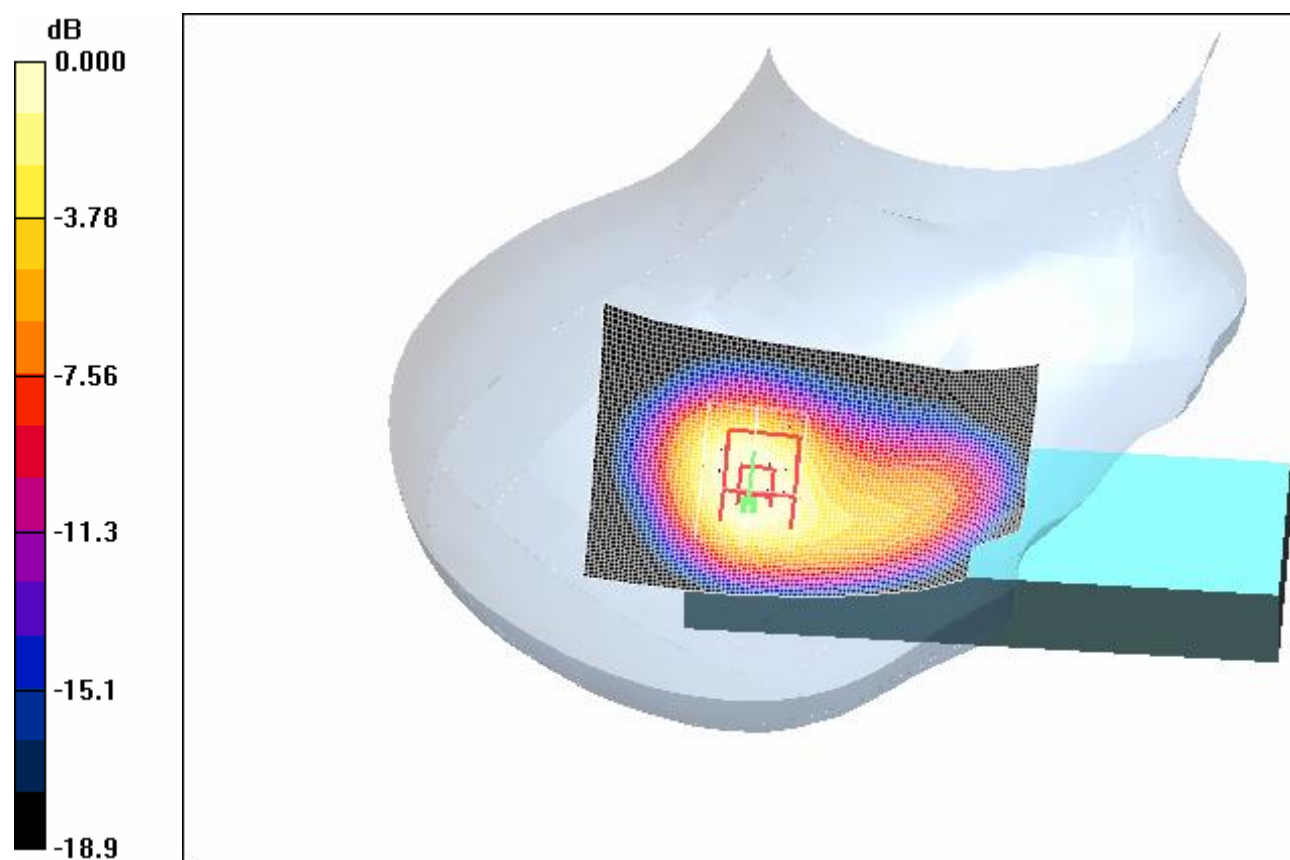
Cheek position - Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.9 V/m; Power Drift = -0.278 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.872 mW/g; SAR(10 g) = 0.504 mW/g

Maximum value of SAR (measured) = 0.939 mW/g



0 dB = 0.939mW/g

4.24 PCS1900-RightHandSide-Cheek-High

Date/Time: 2007-12-6 21:16:25

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Cheek-High

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: PCS1900-GSM Mode; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: HSL1900_Head Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - High/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.28 mW/g

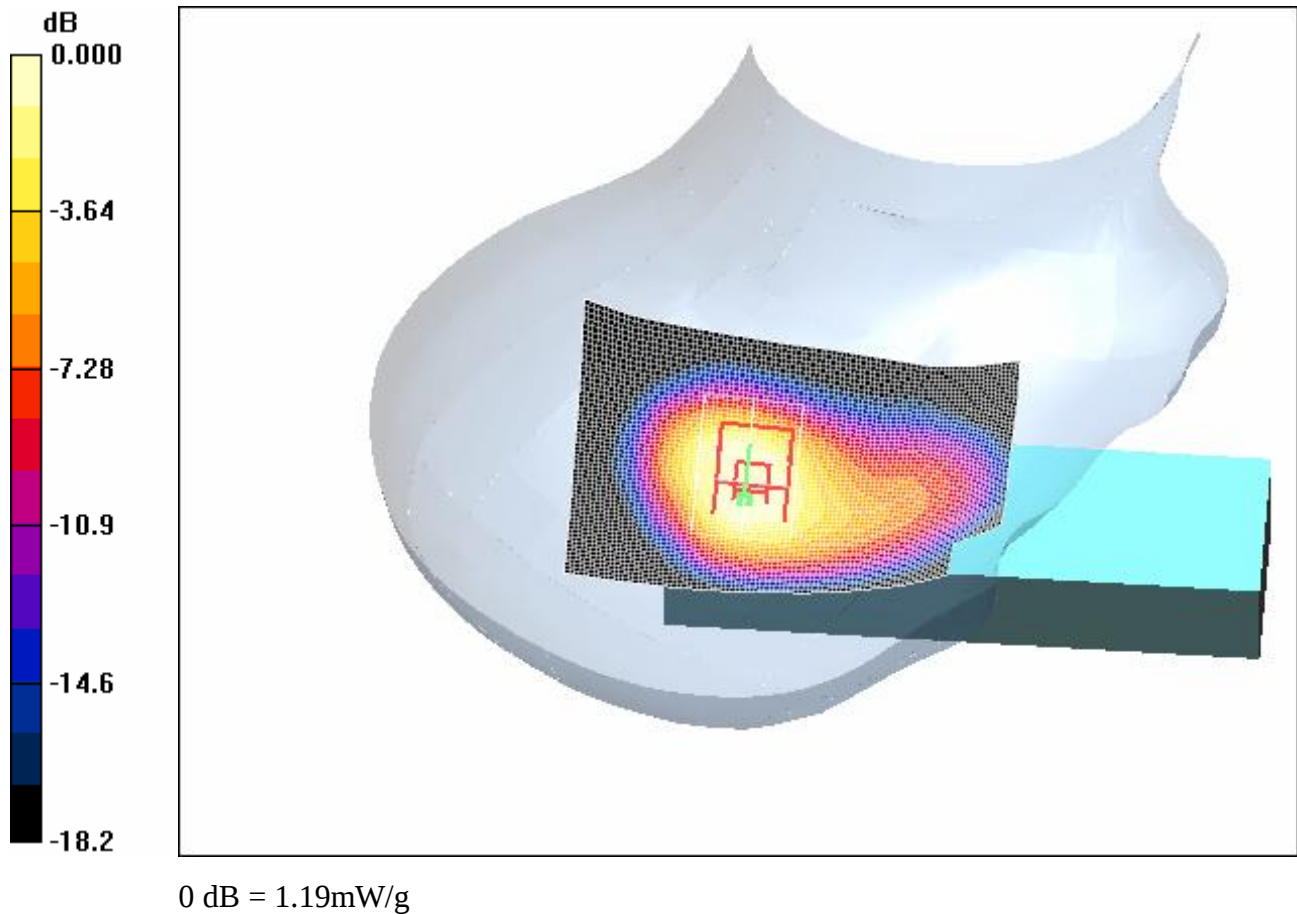
Cheek position - High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.7 V/m; Power Drift = -0.090 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.625 mW/g

Maximum value of SAR (measured) = 1.19 mW/g



4.25 PCS1900-RightHandSide-WorstCase-BT

Date/Time: 2007-12-6 23:10:44

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Cheek-High+BT

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: PCS1900-GSM Mode; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: HSL1900_Head Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - High +BT/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.21 mW/g

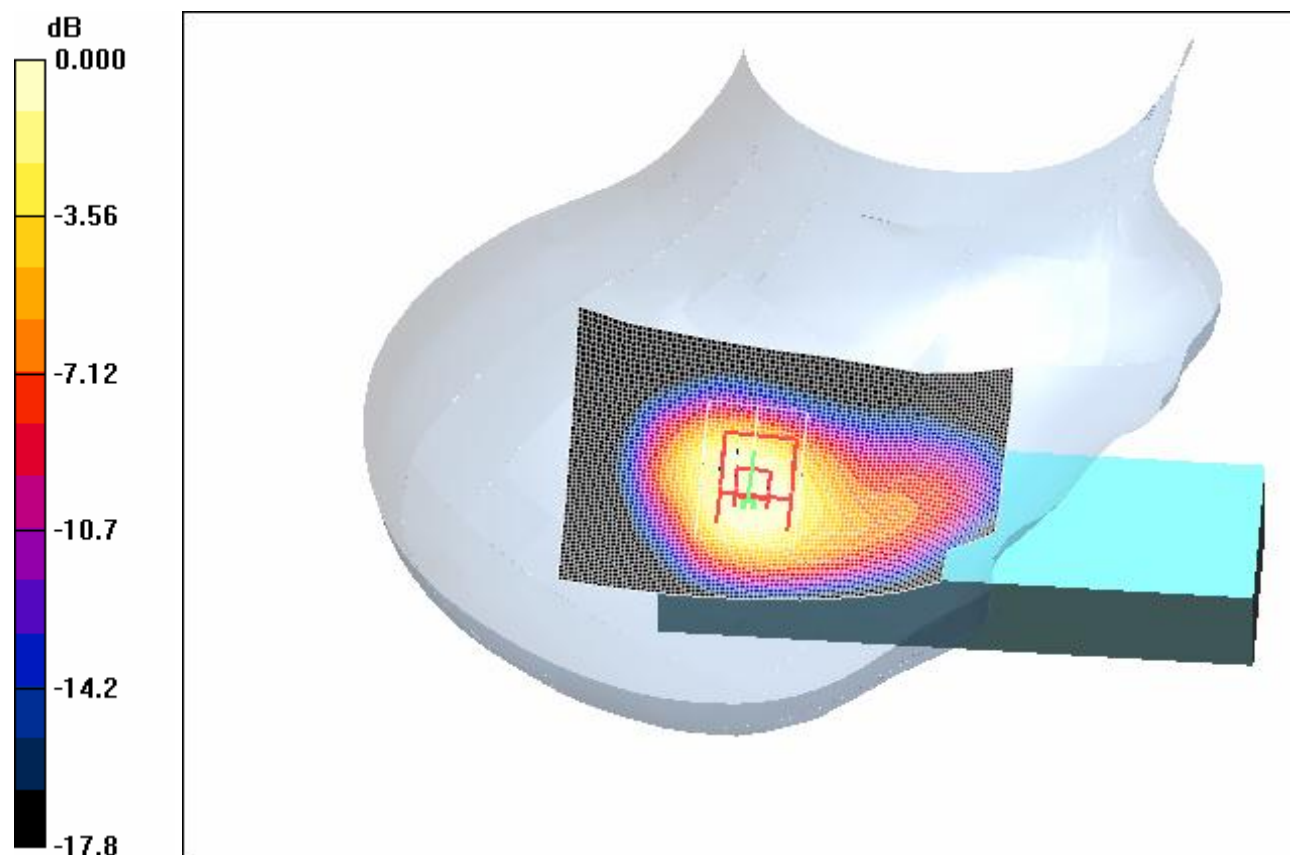
Cheek position - High +BT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.4 V/m; Power Drift = -0.231 dB

Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.581 mW/g

Maximum value of SAR (measured) = 1.12 mW/g



$$0 \text{ dB} = 1.12 \text{ mW/g}$$

4.26 PCS1900-Body-Worn-GPRS-Middle

Date/Time: 2007-12-10 14:10:08

Test Laboratory: SGS-GSM

PCS1900-Body-Worn-GPRS-Middle-1.5cm

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: PCS1900-GPRS Mode; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium: HSL1900_Body Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.68, 4.68, 4.68); Calibrated: 2006-12-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.375 mW/g

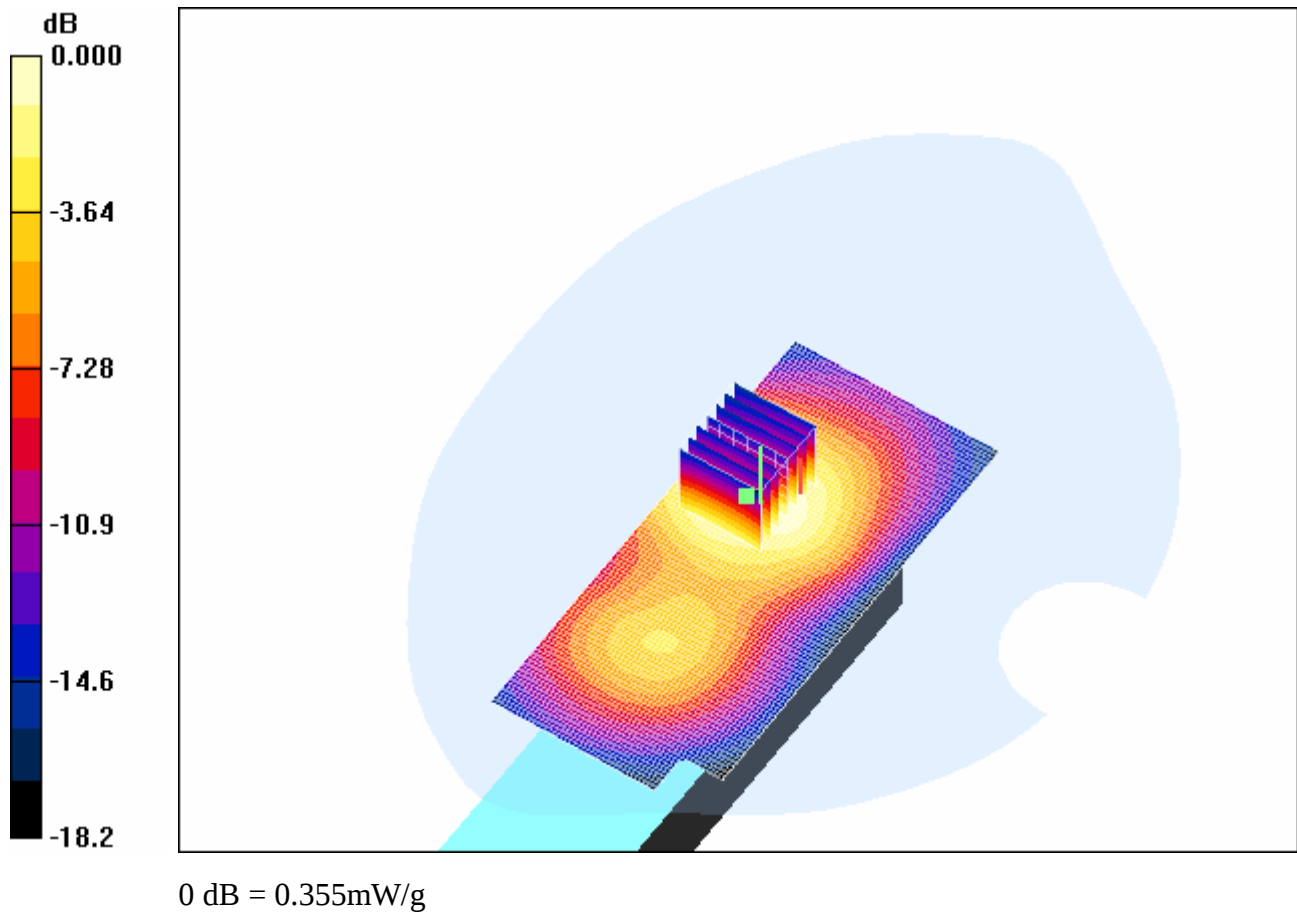
Body Worn - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.3 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 0.545 W/kg

SAR(1 g) = 0.327 mW/g; SAR(10 g) = 0.194 mW/g

Maximum value of SAR (measured) = 0.355 mW/g



4.27 PCS1900-Body-Worn-EGPRS-Middle

Date/Time: 2007-12-10 15:41:28

Test Laboratory: SGS-GSM

PCS1900-Body-Worn-EGPRS-Middle-1.5cm

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM1900-EGPRS Mode; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium: HSL1900_Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.97, 6.97, 6.97); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.489 mW/g

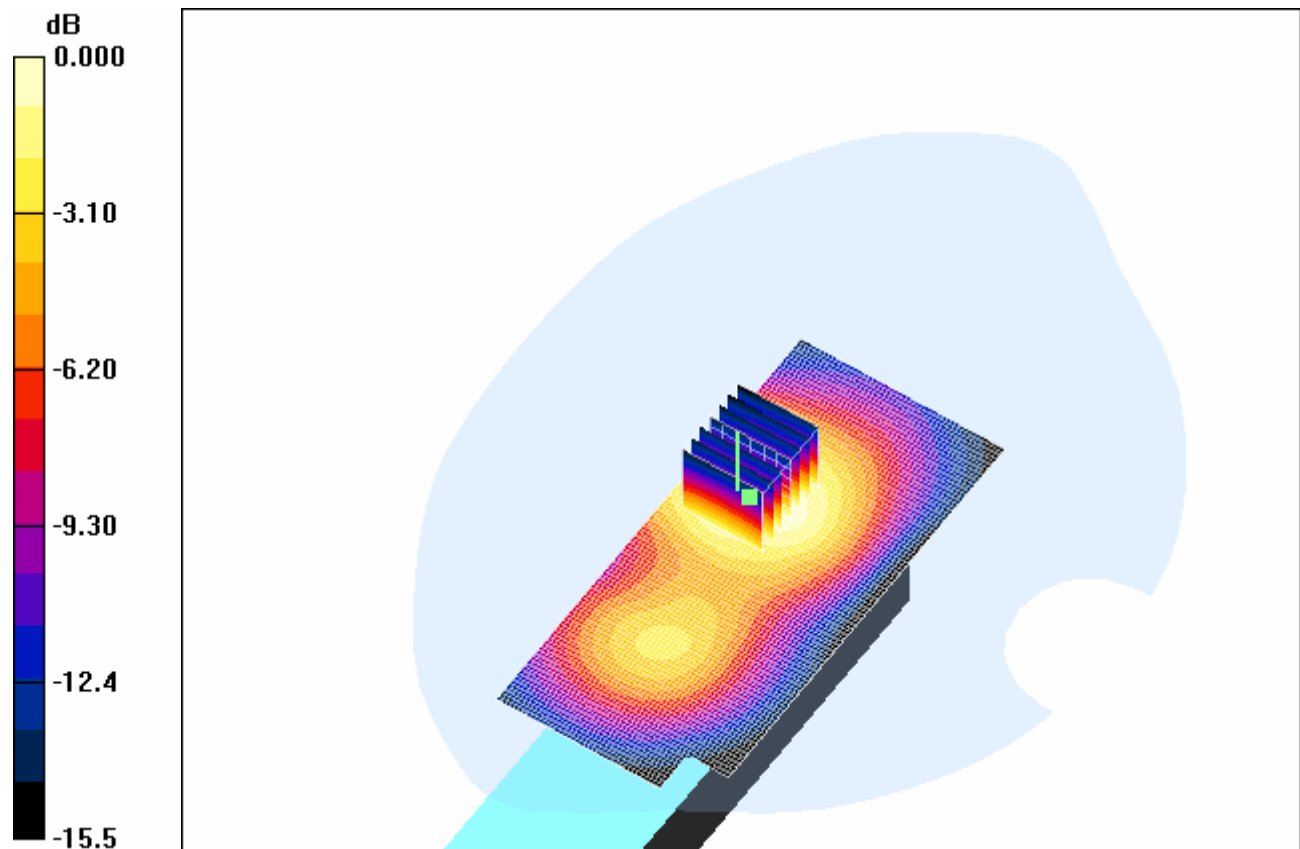
Body Worn - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.8 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.750 W/kg

SAR(1 g) = 0.436 mW/g; SAR(10 g) = 0.261 mW/g

Maximum value of SAR (measured) = 0.473 mW/g



0 dB = 0.473mW/g

4.28 PCS1900-Body-Worn-WorstCase-Low

Date/Time: 2007-12-10 15:18:01

Test Laboratory: SGS-GSM

PCS1900-Body-Worn-EGPRS-Low-1.5cm

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM1900-EGPRS Mode; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium: HSL1900_Body Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.97, 6.97, 6.97); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.552 mW/g

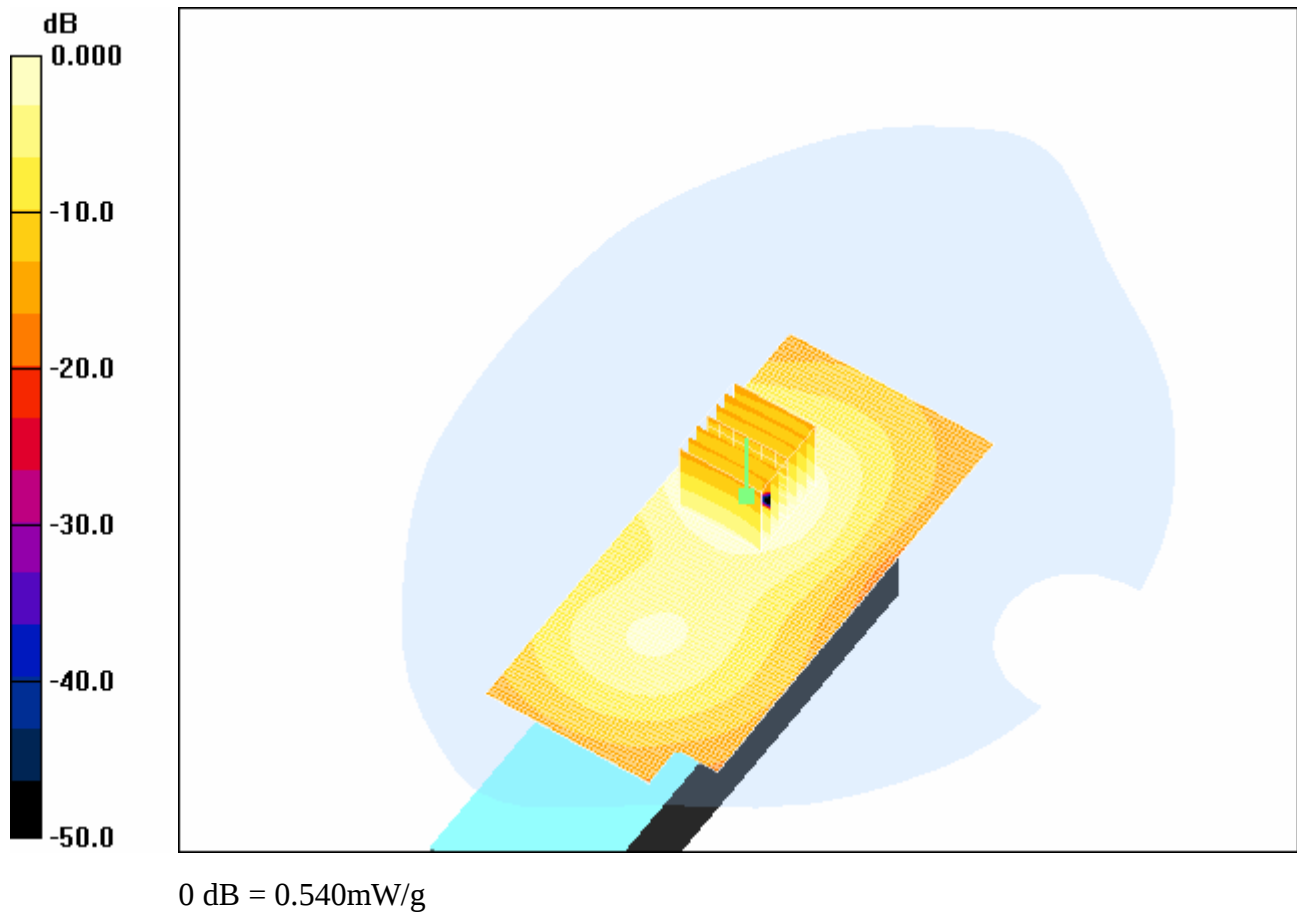
Body Worn - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.8 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.856 W/kg

SAR(1 g) = 0.496 mW/g; SAR(10 g) = 0.292 mW/g

Maximum value of SAR (measured) = 0.540 mW/g



4.29 PCS1900-Body-Worn-WorstCase-High

Date/Time: 2007-12-10 16:04:52

Test Laboratory: SGS-GSM

PCS1900-Body-Worn-EGPRS-High-1.5cm

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM1900-EGPRS Mode; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium: HSL1900_Body Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 51.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.97, 6.97, 6.97); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.494 mW/g

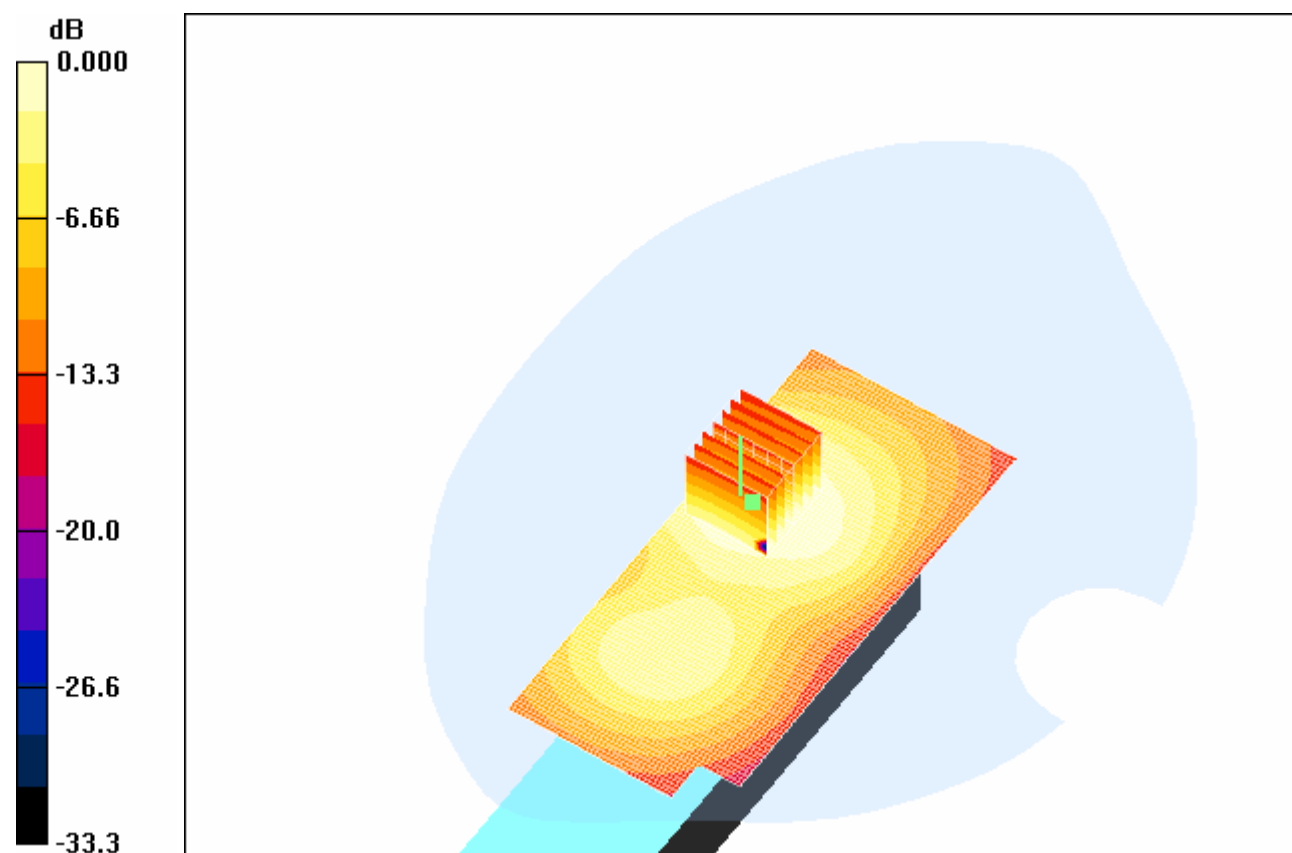
Body Worn - High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.8 V/m; Power Drift = -0.055 dB

Peak SAR (extrapolated) = 0.740 W/kg

SAR(1 g) = 0.441 mW/g; SAR(10 g) = 0.263 mW/g

Maximum value of SAR (measured) = 0.478 mW/g



0 dB = 0.478mW/g

4.30 PCS1900-Body-Worn-WorstCase-BT

Date/Time: 2007-12-10 16:30:46

Test Laboratory: SGS-GSM

PCS1900-Body-Worn-EGPRS-Low-1.5cm+BT

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: GSM1900-EGPRS Mode; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium: HSL1900_Body Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.97, 6.97, 6.97); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Low+BT/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.554 mW/g

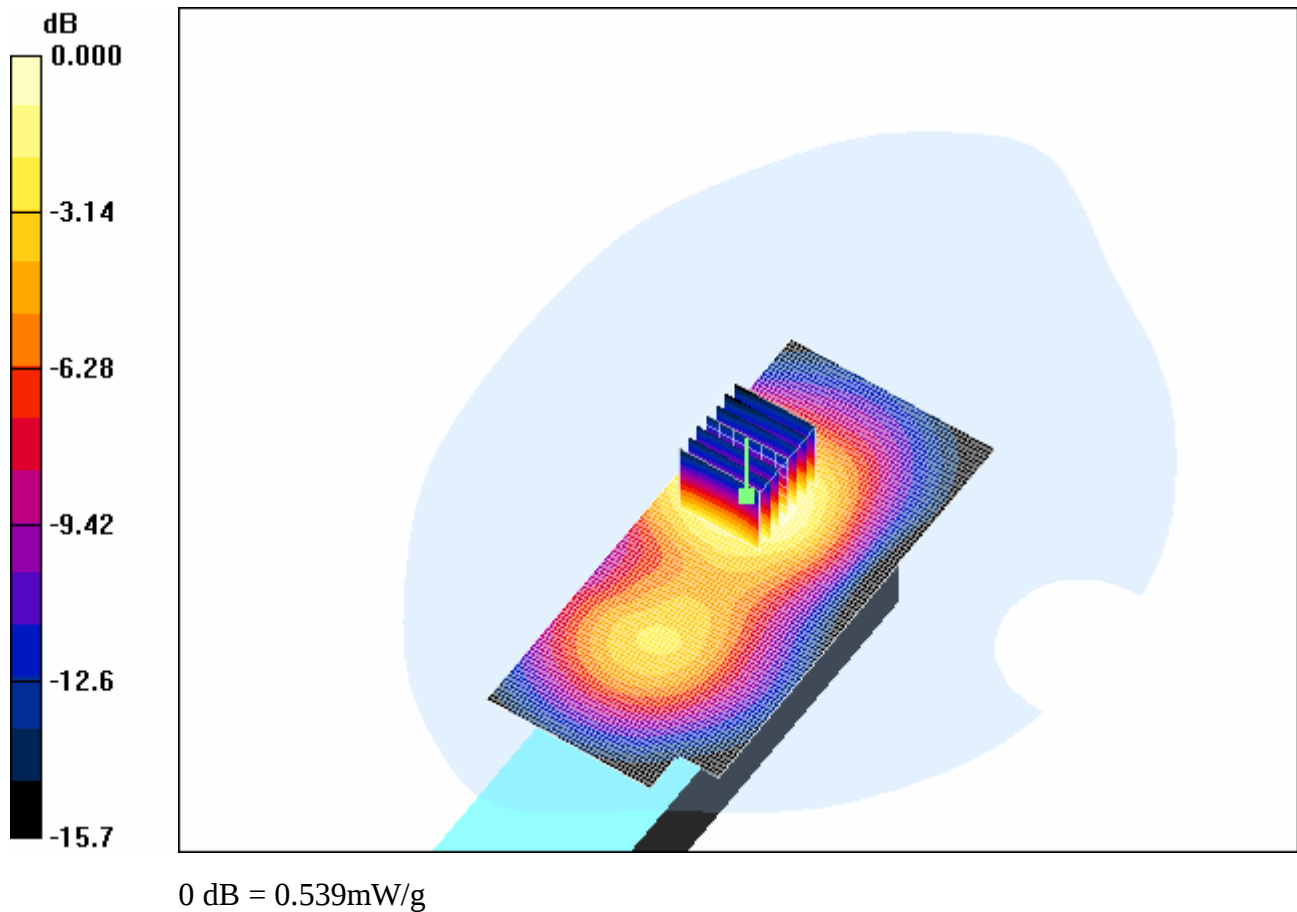
Body Worn - Low+BT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.8 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 0.855 W/kg

SAR(1 g) = 0.497 mW/g; SAR(10 g) = 0.292 mW/g

Maximum value of SAR (measured) = 0.539 mW/g



4.31 WCDMA850-LeftHandSide-Cheek-Middle

Date/Time: 2007-12-20 12:43:21

Test Laboratory: SGS-GSM

WCDMA Band V-LeftHandSide-Cheek-Middle

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band V ; Frequency: 836.4 MHz;Duty Cycle: 1:1

Medium: HSL850_Head Medium parameters used: $f = 836.4 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.12, 8.12, 8.12); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.534 mW/g

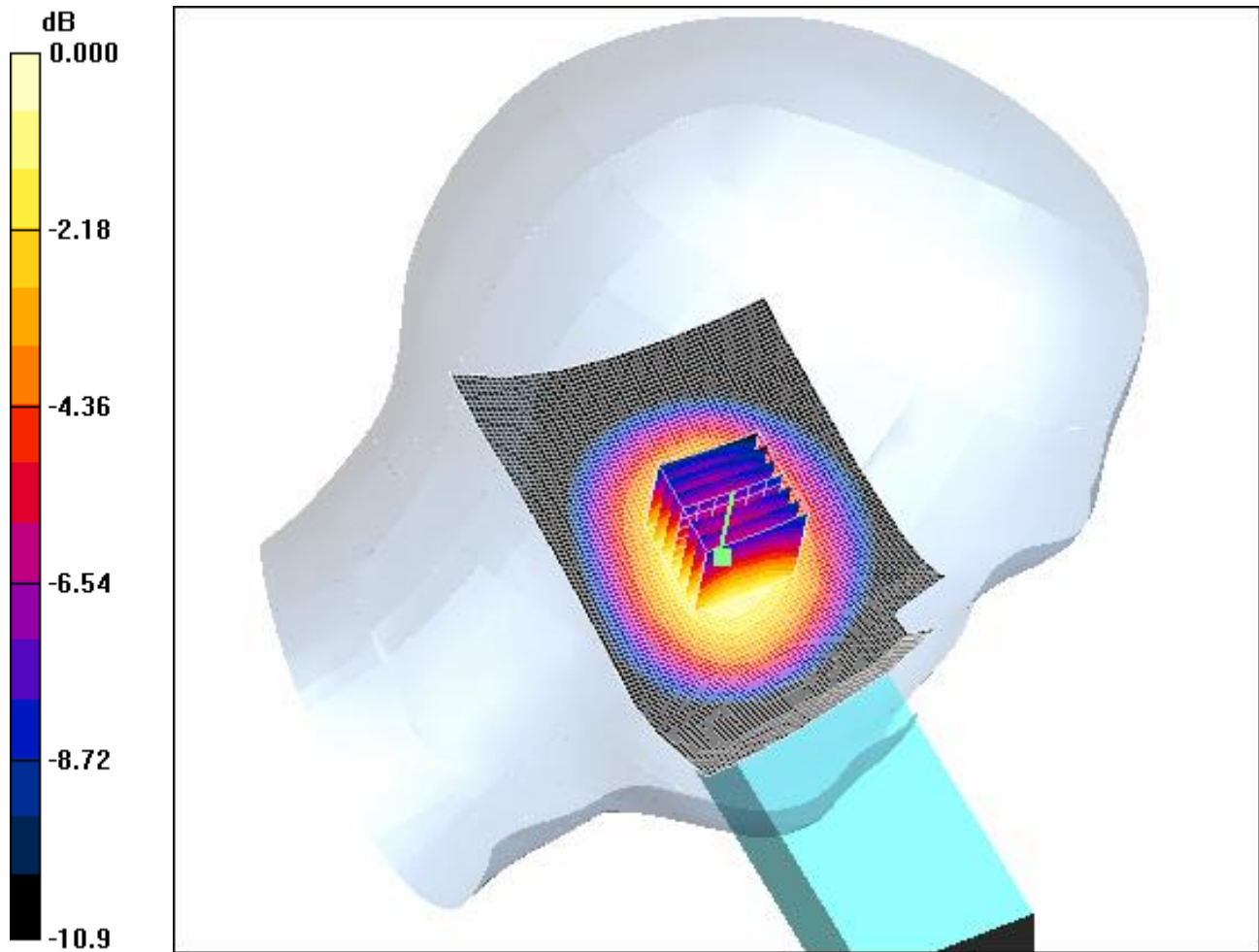
Cheek position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.4 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 0.699 W/kg

SAR(1 g) = 0.516 mW/g; SAR(10 g) = 0.363 mW/g

Maximum value of SAR (measured) = 0.557 mW/g



0 dB = 0.557mW/g

4.32 WCDMA850-LeftHandSide-Tilt-Middle

Date/Time: 2007-12-20 11:15:33

Test Laboratory: SGS-GSM

WCDMA Band V-LeftHandSide-Tilt-Middle

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band V ; Frequency: 836.4 MHz;Duty Cycle: 1:1

Medium: HSL850_Head Medium parameters used: $f = 836.4 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho =$

1000 kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.12, 8.12, 8.12); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Tilt position - Mid/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.370 mW/g

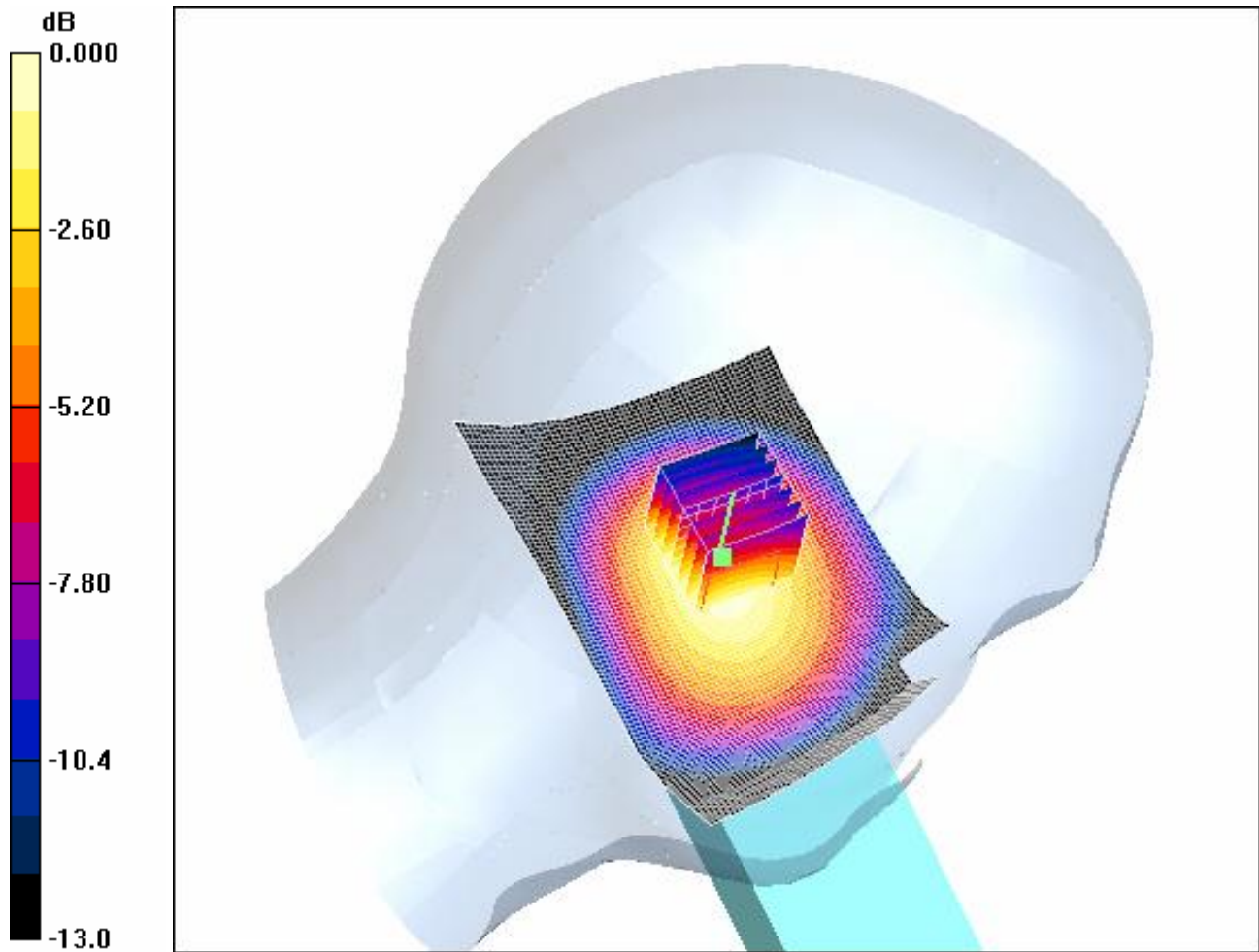
Tilt position - Mid/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.1 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 0.505 W/kg

SAR(1 g) = 0.345 mW/g; SAR(10 g) = 0.233 mW/g

Maximum value of SAR (measured) = 0.371 mW/g



0 dB = 0.371mW/g

4.33 WCDMA850-LeftHandSide-Cheek-Low

Date/Time: 2007-12-20 13:26:36

Test Laboratory: SGS-GSM

WCDMA Band V-LeftHandSide-Cheek-Low

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band V ; Frequency: 826.4 MHz;Duty Cycle: 1:1

Medium: HSL850_Head Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.86$ mho/m; $\epsilon_r = 41.3$; $\rho =$

1000 kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.12, 8.12, 8.12); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.575 mW/g

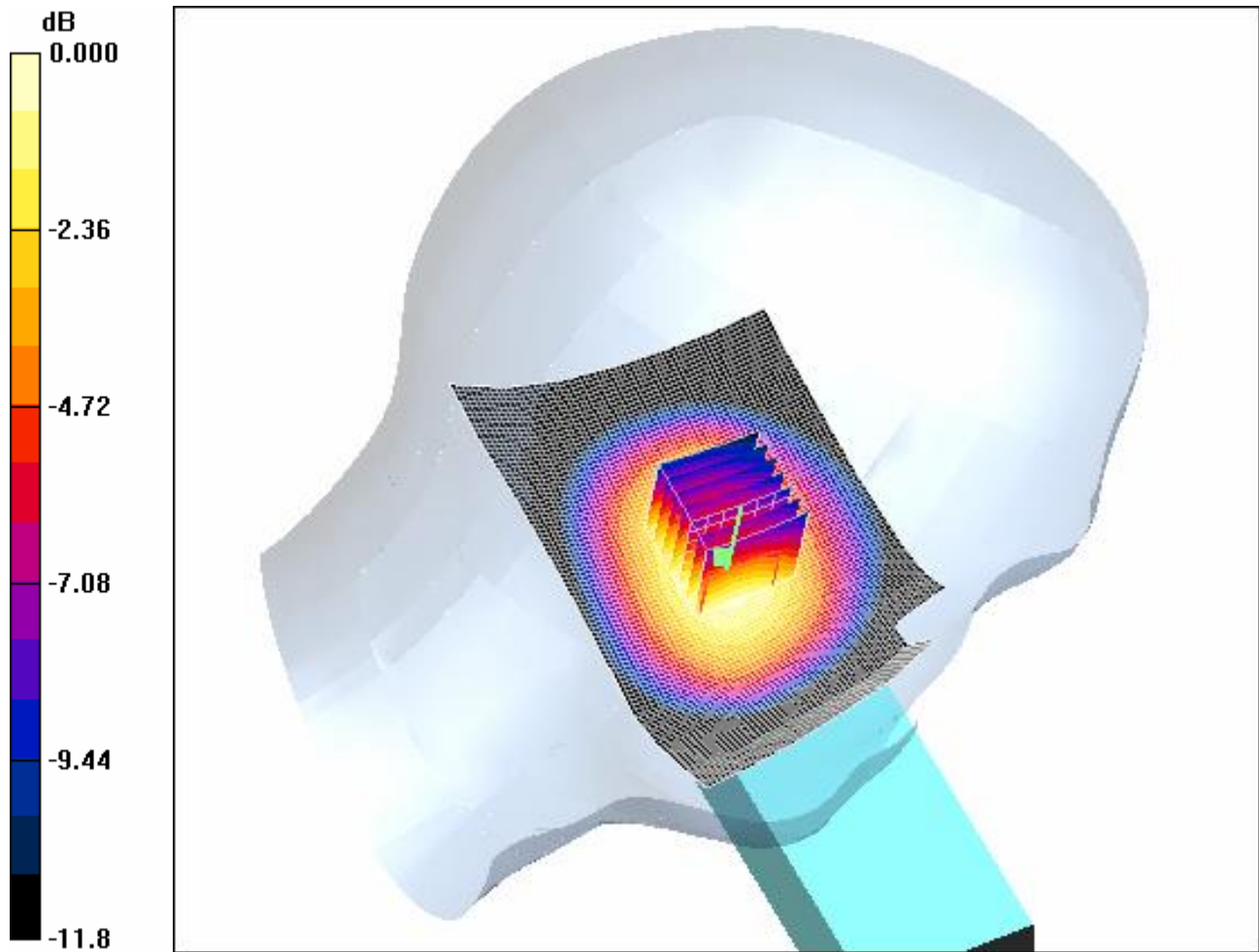
Cheek position - Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.7 V/m; Power Drift = 0.062 dB

Peak SAR (extrapolated) = 0.737 W/kg

SAR(1 g) = 0.555 mW/g; SAR(10 g) = 0.389 mW/g

Maximum value of SAR (measured) = 0.587 mW/g



0 dB = 0.587mW/g

4.34 WCDMA850-LeftHandSide-Cheek-High

Date/Time: 2007-12-20 14:12:04

Test Laboratory: SGS-GSM

WCDMA Band V-LeftHandSide-Cheek-High

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band V ; Frequency: 846.6 MHz;Duty Cycle: 1:1

Medium: HSL850_Head Medium parameters used: $f = 846.6 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho =$

1000 kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.12, 8.12, 8.12); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.626 mW/g

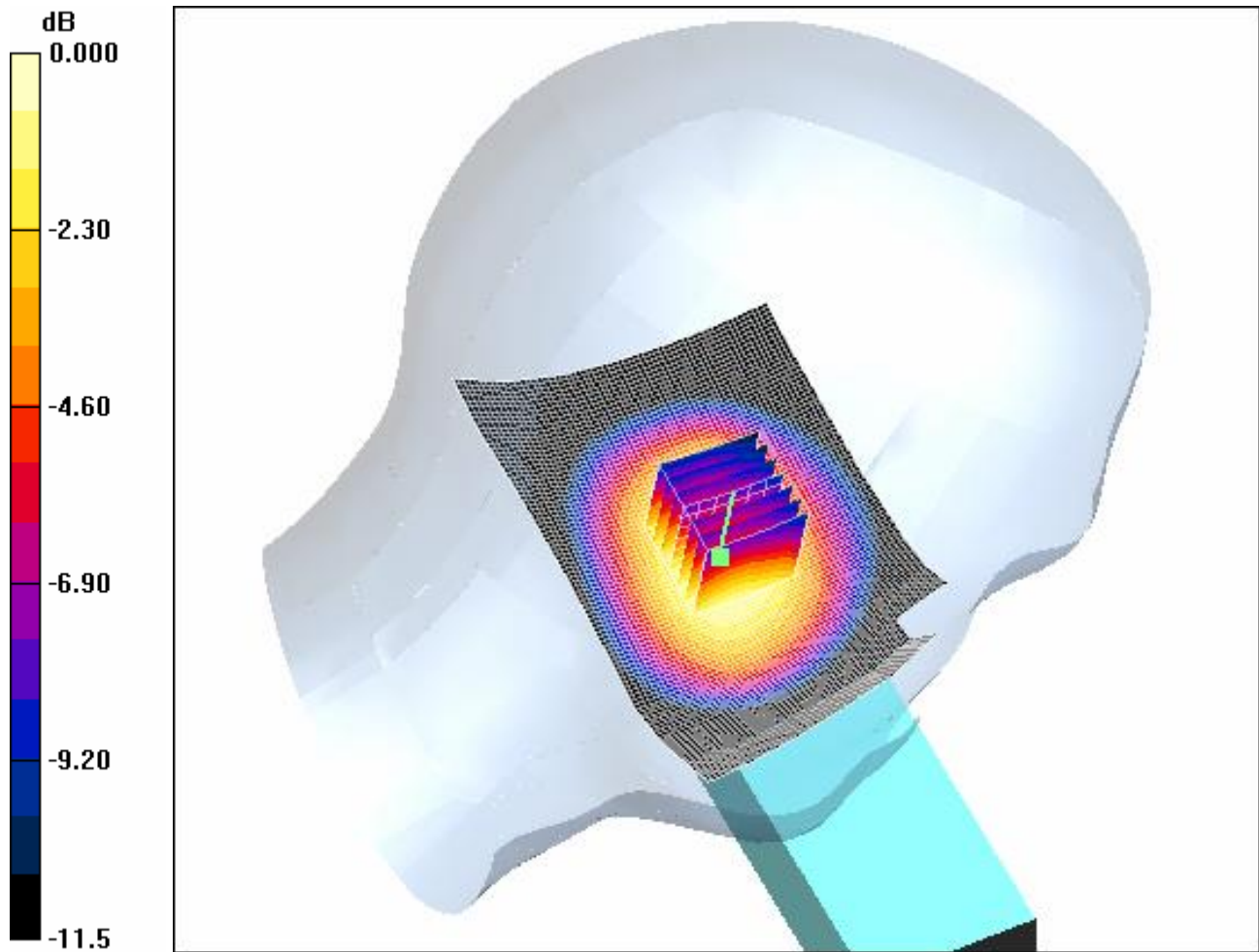
Cheek position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.7 V/m; Power Drift = -0.107 dB

Peak SAR (extrapolated) = 0.825 W/kg

SAR(1 g) = 0.593 mW/g; SAR(10 g) = 0.414 mW/g

Maximum value of SAR (measured) = 0.640 mW/g



0 dB = 0.640mW/g

4.35 WCDMA850-LeftHandSide-WorstCase-BT

Date/Time: 2007-12-20 14:39:16

Test Laboratory: SGS-GSM

WCDMA Band V-LeftHandSide-Cheek-High+BT

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band V ; Frequency: 846.6 MHz;Duty Cycle: 1:1

Medium: HSL850_Head Medium parameters used: $f = 846.6 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho =$

1000 kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.12, 8.12, 8.12); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - High+BT/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.625 mW/g

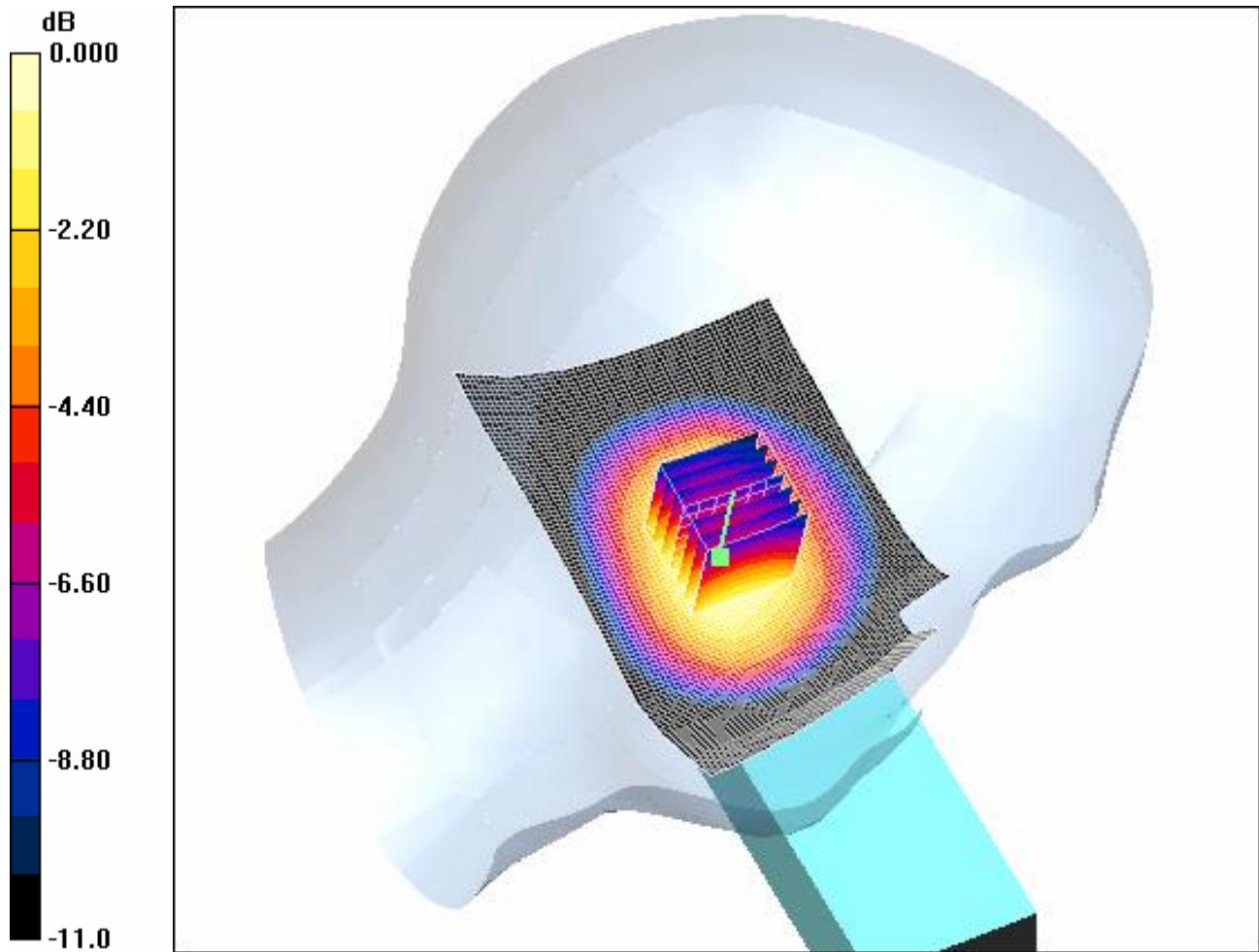
Cheek position - High+BT/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.7 V/m; Power Drift = 0.039 dB

Peak SAR (extrapolated) = 0.798 W/kg

SAR(1 g) = 0.588 mW/g; SAR(10 g) = 0.415 mW/g

Maximum value of SAR (measured) = 0.626 mW/g



0 dB = 0.626mW/g

4.36 WCDMA850-RightHandSide-Cheek-Middle

Date/Time: 2007-12-20 8:23:56

Test Laboratory: SGS-GSM

WCDMA Band V-RightHandSide-Cheek-Middle

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band V ; Frequency: 836.4 MHz;Duty Cycle: 1:1

Medium: HSL850_Head Medium parameters used: $f = 836.4 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho =$

1000 kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.12, 8.12, 8.12); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.596 mW/g

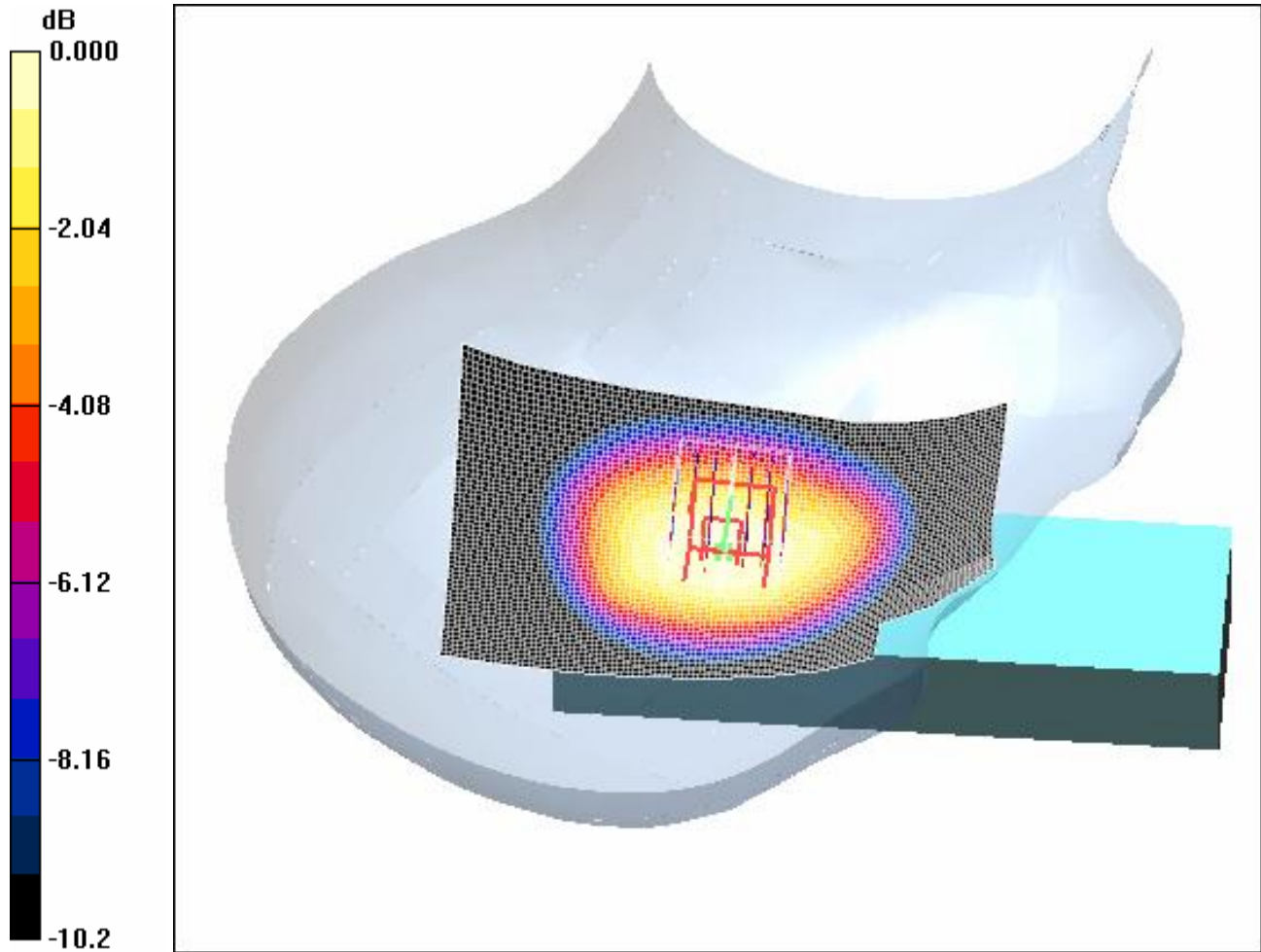
Cheek position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.6 V/m; Power Drift = -0.099 dB

Peak SAR (extrapolated) = 0.680 W/kg

SAR(1 g) = 0.521 mW/g; SAR(10 g) = 0.373 mW/g

Maximum value of SAR (measured) = 0.553 mW/g



0 dB = 0.553mW/g

4.37 WCDMA850-RightHandSide-Tilt-Middle

Date/Time: 2007-12-20 8:50:01

Test Laboratory: SGS-GSM

WCDMA Band V-RightHandSide-Tilt-Middle

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band V ; Frequency: 836.4 MHz;Duty Cycle: 1:1

Medium: HSL850_Head Medium parameters used: $f = 836.4 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho =$

1000 kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.12, 8.12, 8.12); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Tilt position - Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.348 mW/g

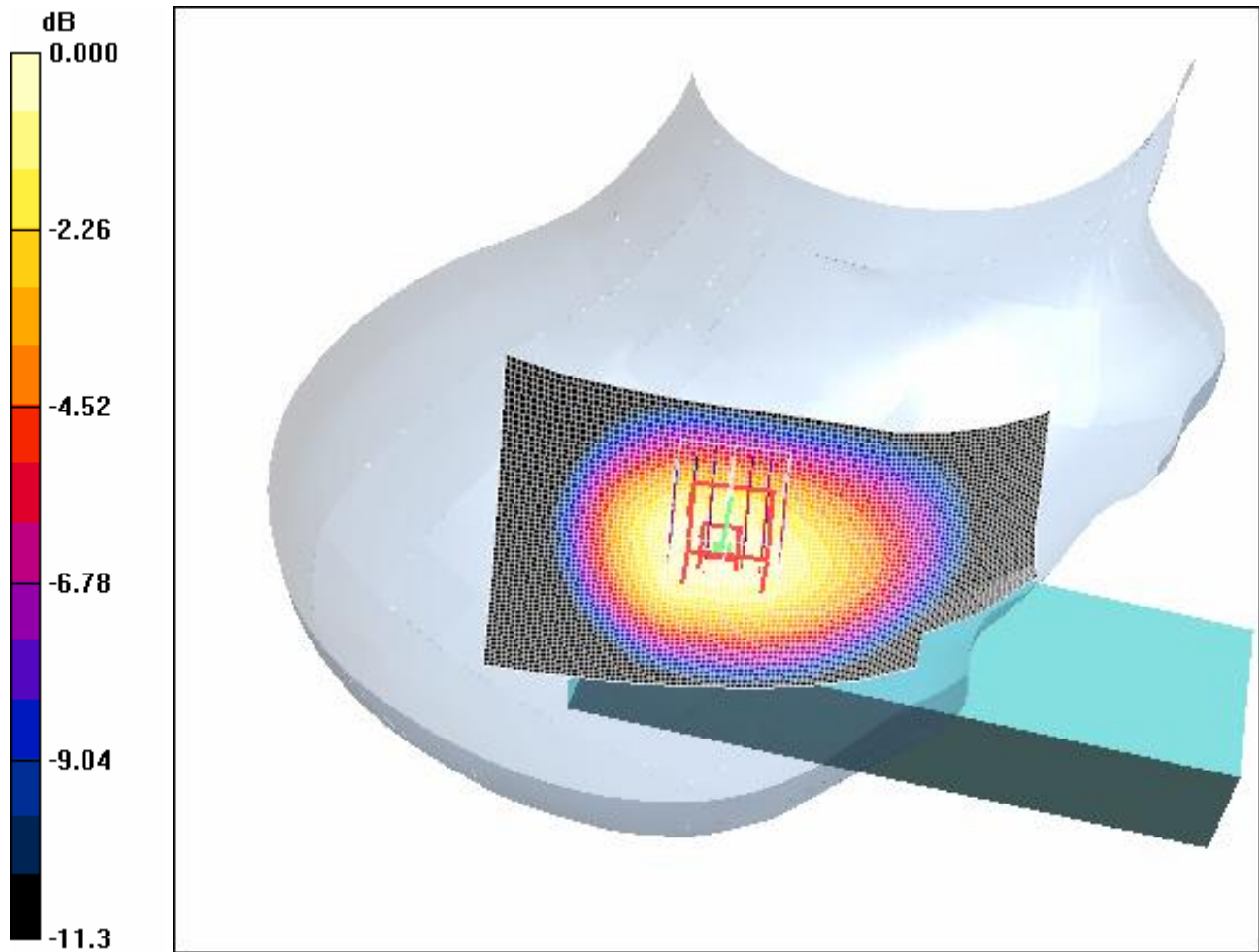
Tilt position - Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.2 V/m; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 0.445 W/kg

SAR(1 g) = 0.331 mW/g; SAR(10 g) = 0.234 mW/g

Maximum value of SAR (measured) = 0.351 mW/g



0 dB = 0.351mW/g

4.38 WCDMA850-RightHandSide-Cheek-Low

Date/Time: 2007-12-20 9:25:46

Test Laboratory: SGS-GSM

WCDMA Band V-RightHandSide-Cheek-Low

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band V ; Frequency: 826.4 MHz;Duty Cycle: 1:1

Medium: HSL850_Head Medium parameters used: $f = 826.4 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 41.3$; $\rho =$

1000 kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.12, 8.12, 8.12); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.591 mW/g

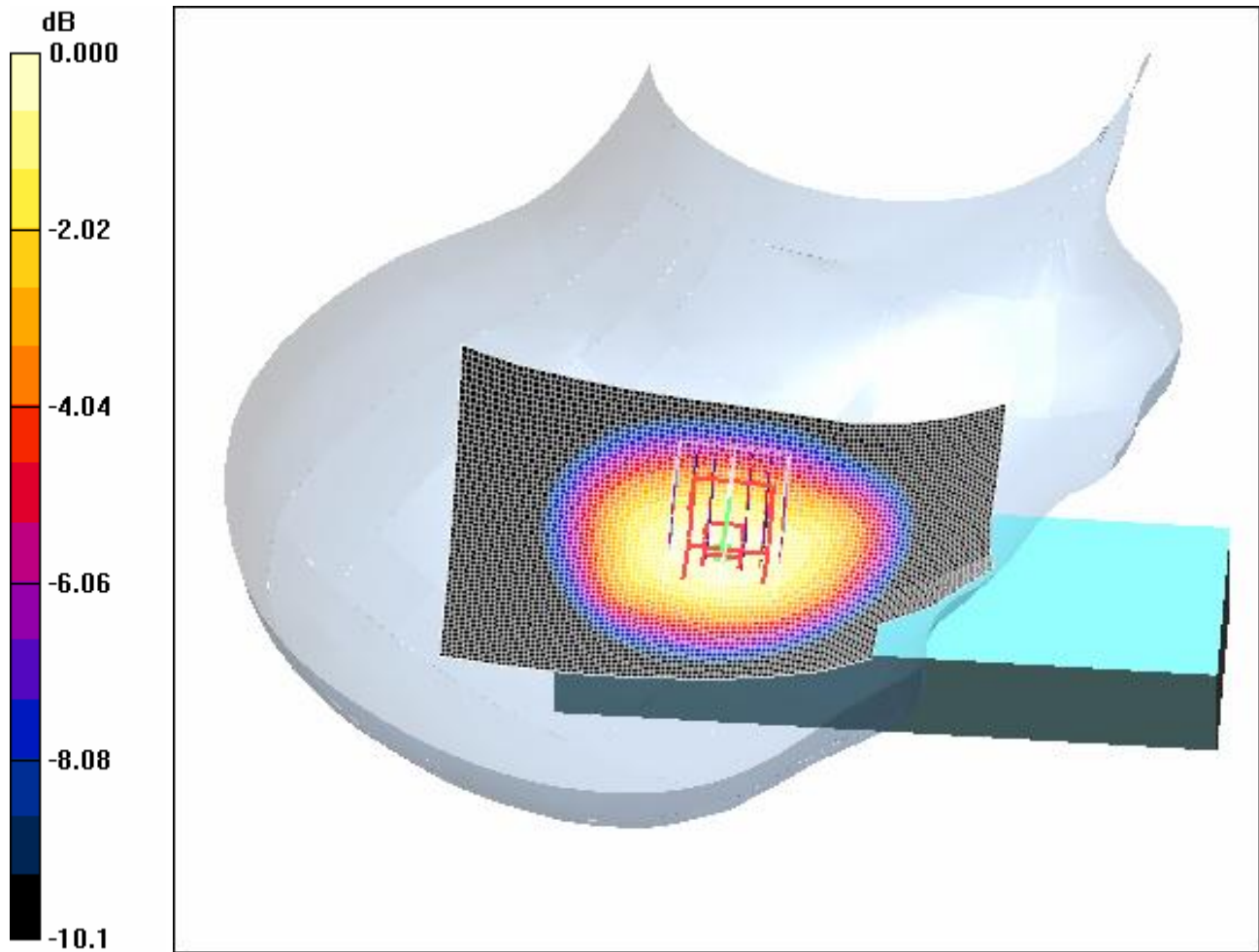
Cheek position - Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.6 V/m; Power Drift = 0.241 dB

Peak SAR (extrapolated) = 0.711 W/kg

SAR(1 g) = 0.544 mW/g; SAR(10 g) = 0.389 mW/g

Maximum value of SAR (measured) = 0.583 mW/g



0 dB = 0.583mW/g

4.39 WCDMA850-RightHandSide-Cheek-High

Date/Time: 2007-12-20 9:51:19

Test Laboratory: SGS-GSM

WCDMA Band V-RightHandSide-Cheek-High

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band V ; Frequency: 846.6 MHz;Duty Cycle: 1:1

Medium: HSL850_Head Medium parameters used: $f = 846.6 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho =$

1000 kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.12, 8.12, 8.12); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.657 mW/g

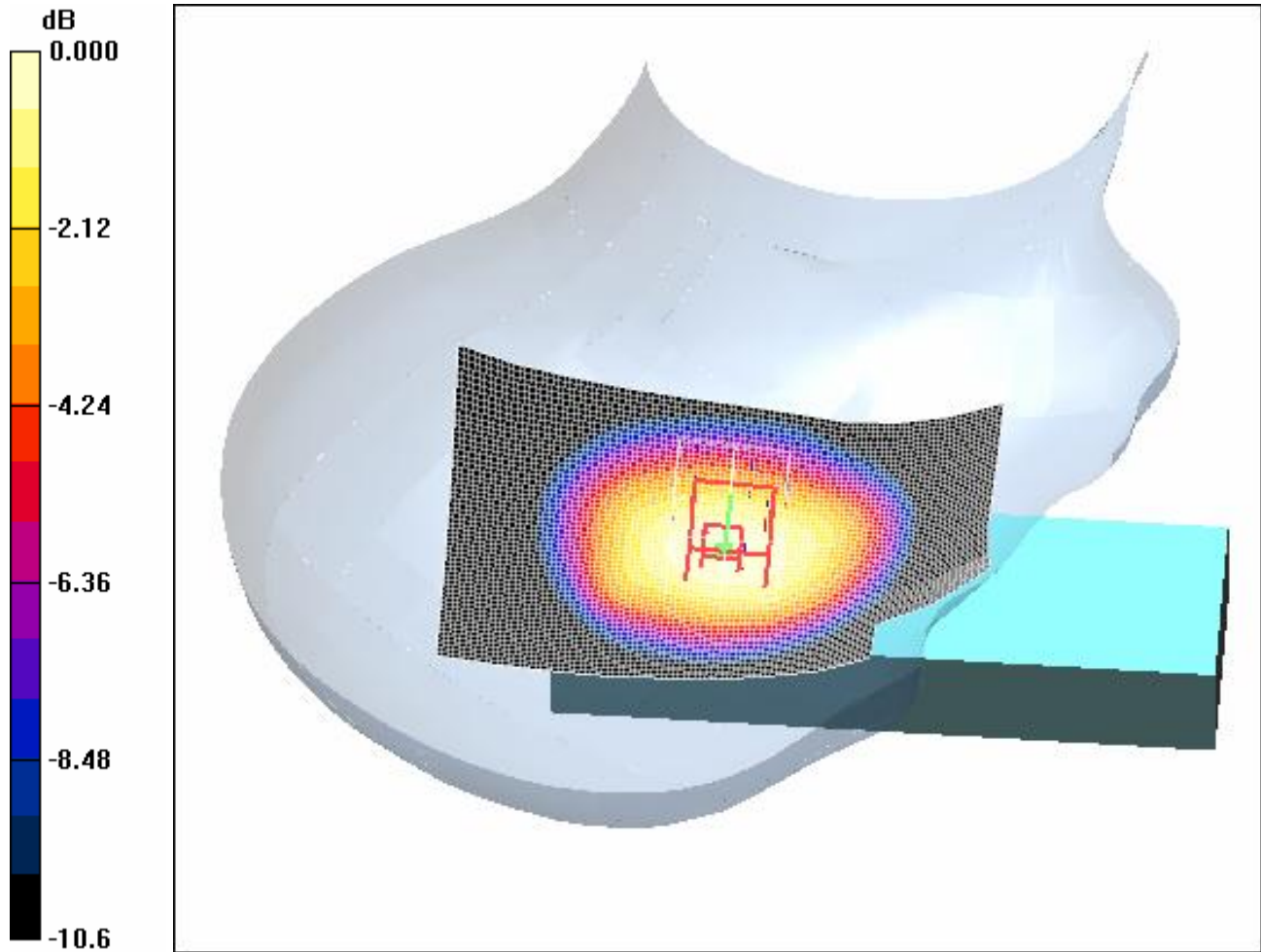
Cheek position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.9 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 0.777 W/kg

SAR(1 g) = 0.597 mW/g; SAR(10 g) = 0.425 mW/g

Maximum value of SAR (measured) = 0.636 mW/g



0 dB = 0.636mW/g

4.40 WCDMA850-RightHandSide-WorstCase-BT

Date/Time: 2007-12-20 10:42:51

Test Laboratory: SGS-GSM

WCDMA Band V-RightHandSide-Cheek-High+BT

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band V ; Frequency: 846.6 MHz;Duty Cycle: 1:1

Medium: HSL850_Head Medium parameters used: $f = 846.6 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho =$

1000 kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.12, 8.12, 8.12); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - High +BT/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.607 mW/g

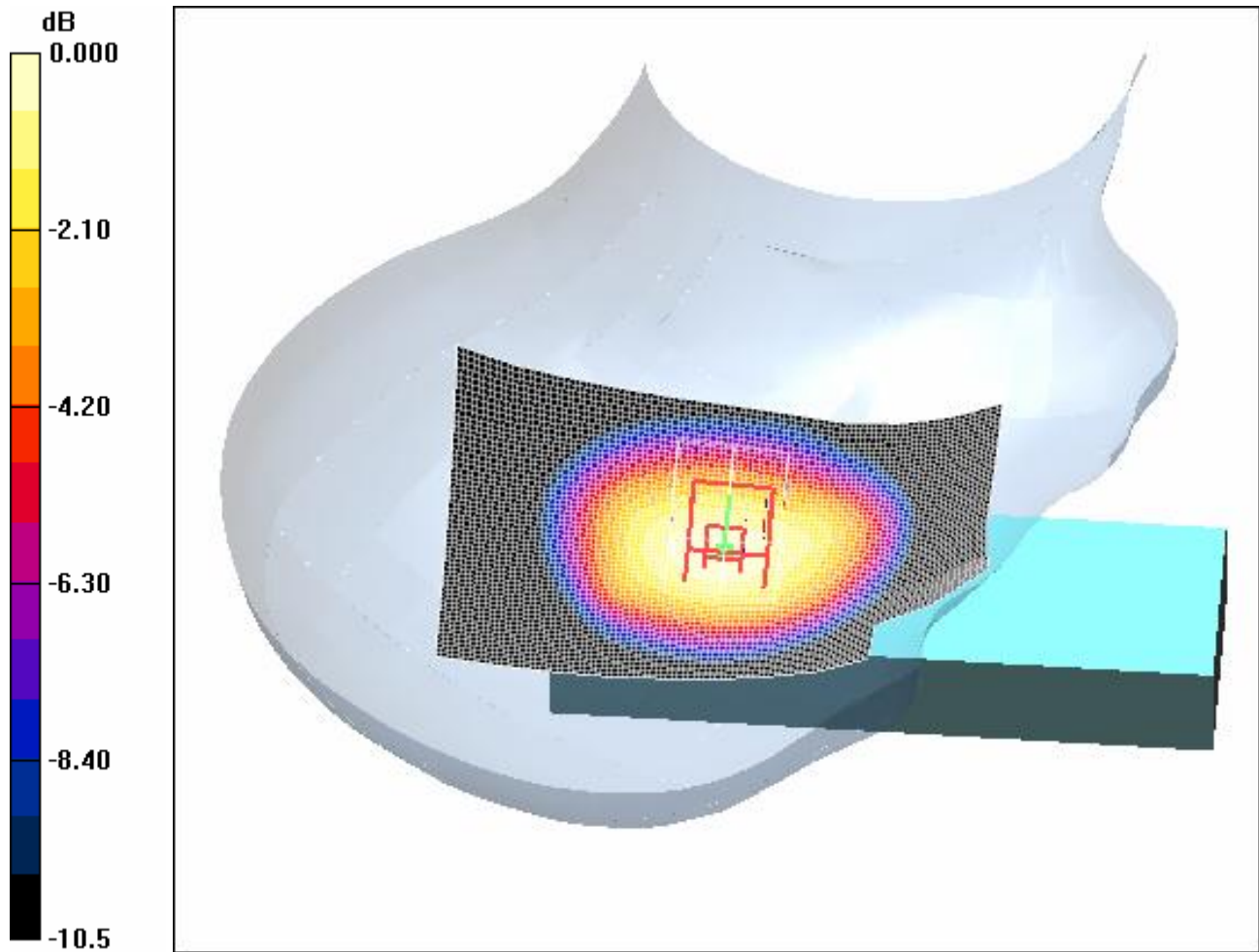
Cheek position - High +BT/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.1 V/m; Power Drift = 0.098 dB

Peak SAR (extrapolated) = 0.756 W/kg

SAR(1 g) = 0.580 mW/g; SAR(10 g) = 0.413 mW/g

Maximum value of SAR (measured) = 0.612 mW/g



0 dB = 0.612mW/g

4.41 WCDMA850-Body-Worn-Middle

Date/Time: 2007-12-11 17:52:04

Test Laboratory: SGS-GSM

WCDMA Band V-Body-Worn-Middle-1.5cm

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band V ; Frequency: 836.4 MHz;Duty Cycle: 1:1

Medium: HSL900-Body Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.991$ mho/m; $\epsilon_r = 54.7$; $\rho =$

1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.02, 8.02, 8.02); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.867 mW/g

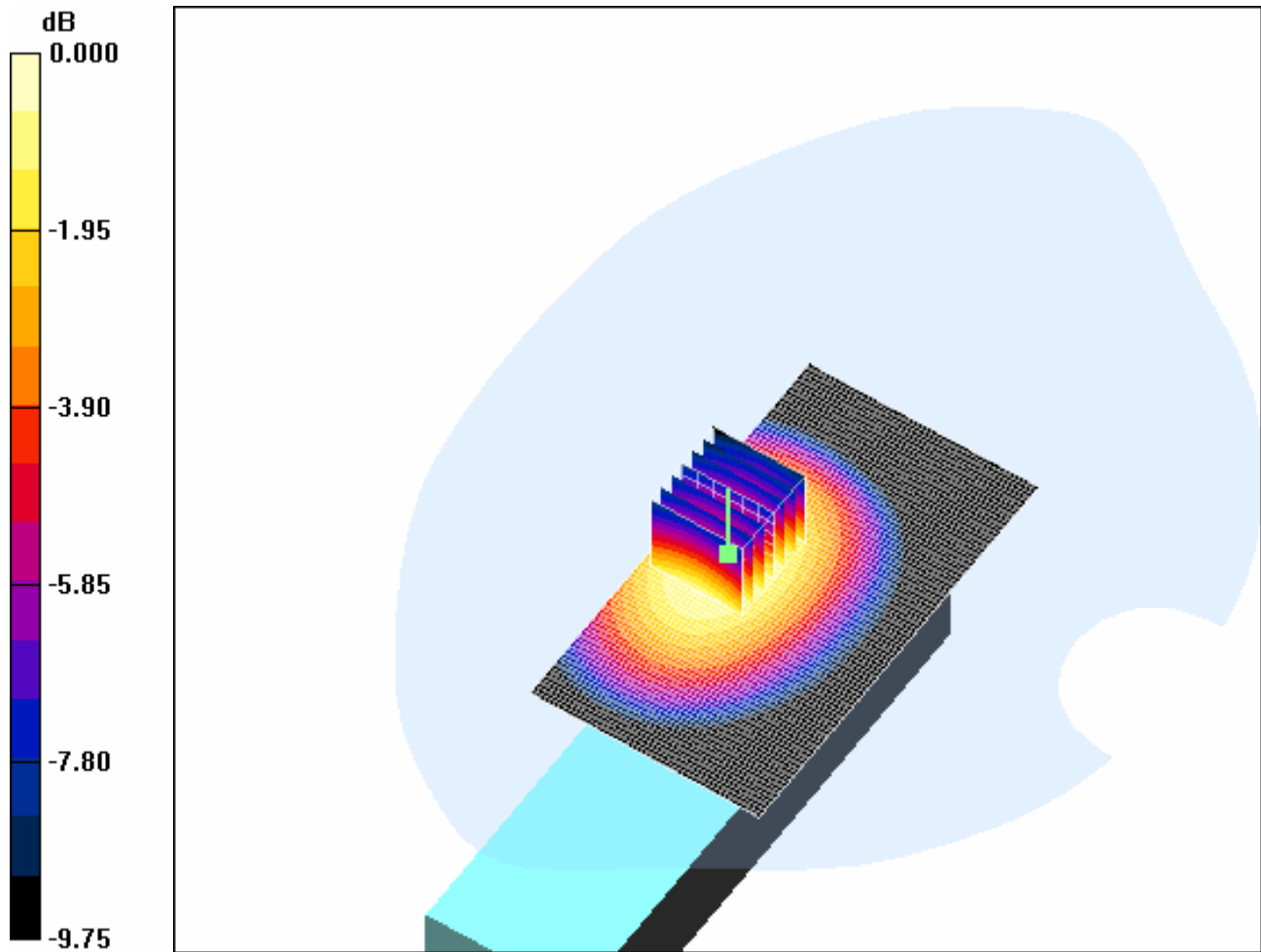
Body Worn - Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.8 V/m; Power Drift = 0.111 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.836 mW/g; SAR(10 g) = 0.599 mW/g

Maximum value of SAR (measured) = 0.894 mW/g



0 dB = 0.894mW/g

4.42 WCDMA850-Body-Worn-HSDPA-Middle

Date/Time: 2007-12-11 21:28:40

Test Laboratory: SGS-GSM

WCDMA Band V-Body-Worn-HSDPA-Middle-1.5cm

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: HSDPA Band V ; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL900-Body Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.991$ mho/m; $\epsilon_r = 54.7$; $\rho =$

1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.02, 8.02, 8.02); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.881 mW/g

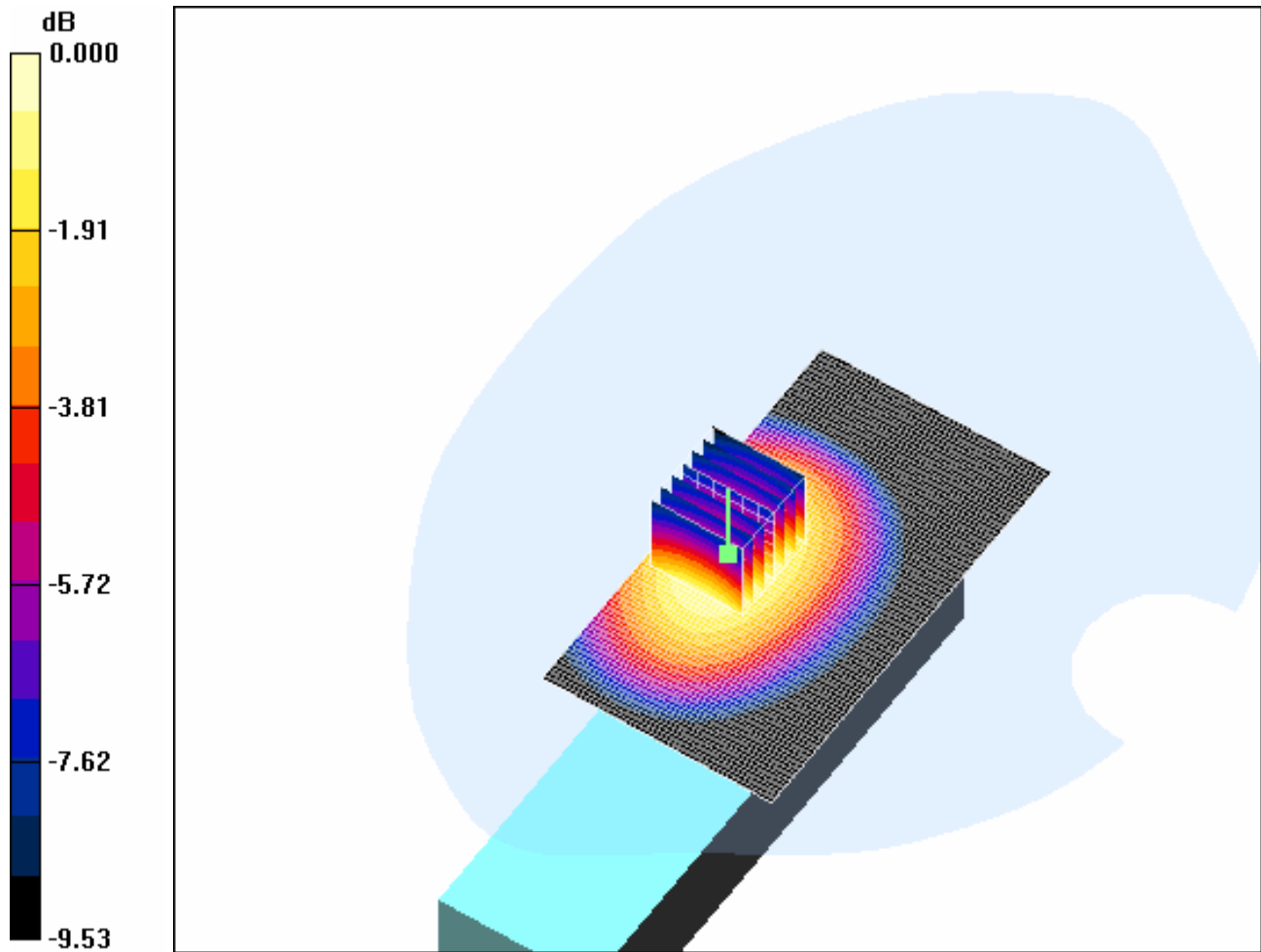
Body Worn - Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.7 V/m; Power Drift = 0.176 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.835 mW/g; SAR(10 g) = 0.597 mW/g

Maximum value of SAR (measured) = 0.887 mW/g



0 dB = 0.887mW/g

4.43 WCDMA850-Body-Worn-WorstCase-Low

Date/Time: 2007-12-11 16:56:52

Test Laboratory: SGS-GSM

WCDMA Band V-Body-Worn-Low-1.5cm

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band V ; Frequency: 826.4 MHz;Duty Cycle: 1:1

Medium: HSL900-Body Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.977$ mho/m; $\epsilon_r = 54.6$; $\rho =$

1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.02, 8.02, 8.02); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.874 mW/g

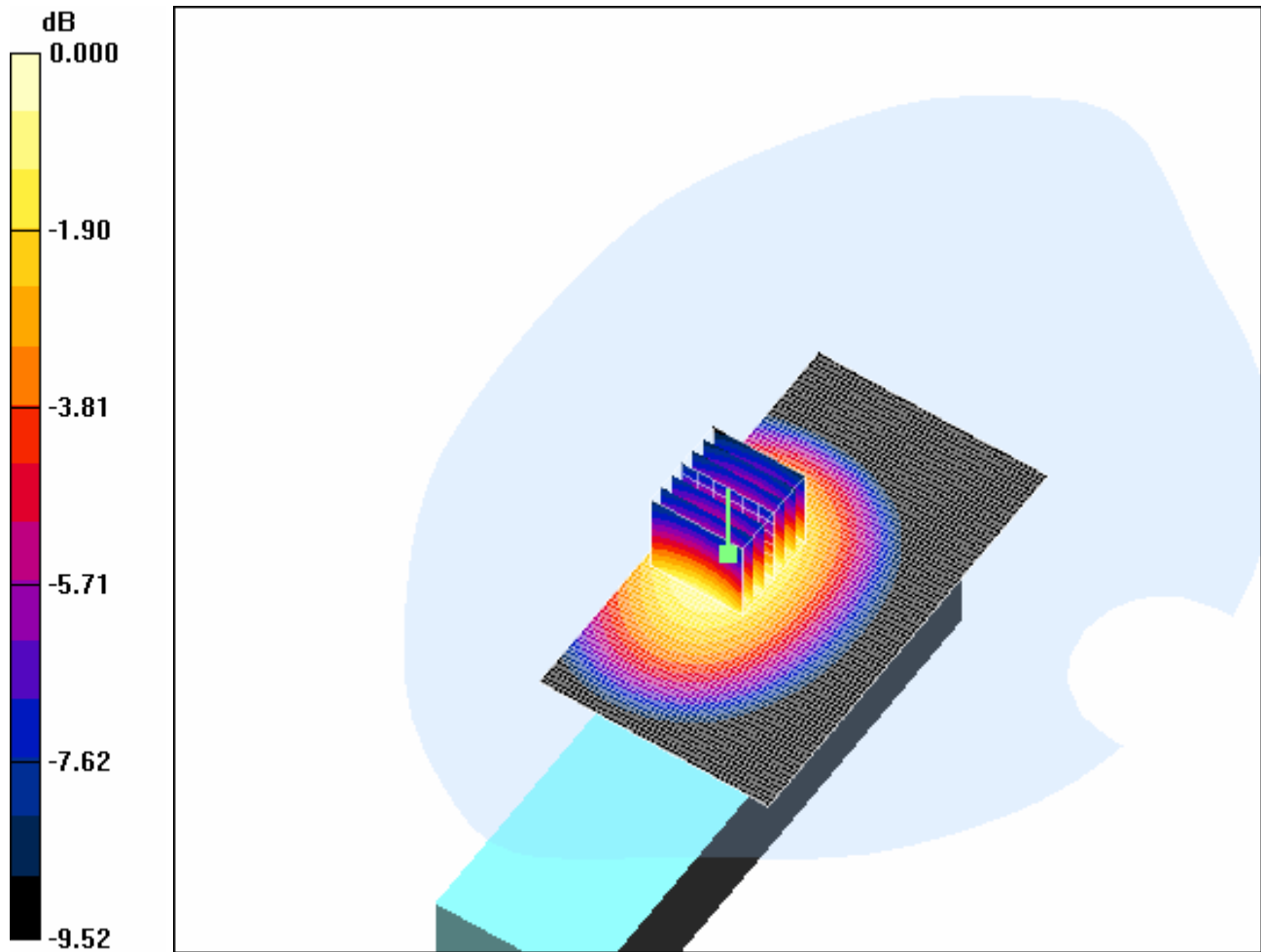
Body Worn Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.0 V/m; Power Drift = 0.202 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.841 mW/g; SAR(10 g) = 0.601 mW/g

Maximum value of SAR (measured) = 0.894 mW/g



0 dB = 0.894mW/g

4.44 WCDMA850-Body-Worn-WorstCase-High

Date/Time: 2007-12-11 19:42:04

Test Laboratory: SGS-GSM

WCDMA Band V-Body-Worn-High-1.5cm

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band V ; Frequency: 846.6 MHz;Duty Cycle: 1:1

Medium: HSL900-Body Medium parameters used: $f = 846.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$

kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.02, 8.02, 8.02); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.799 mW/g

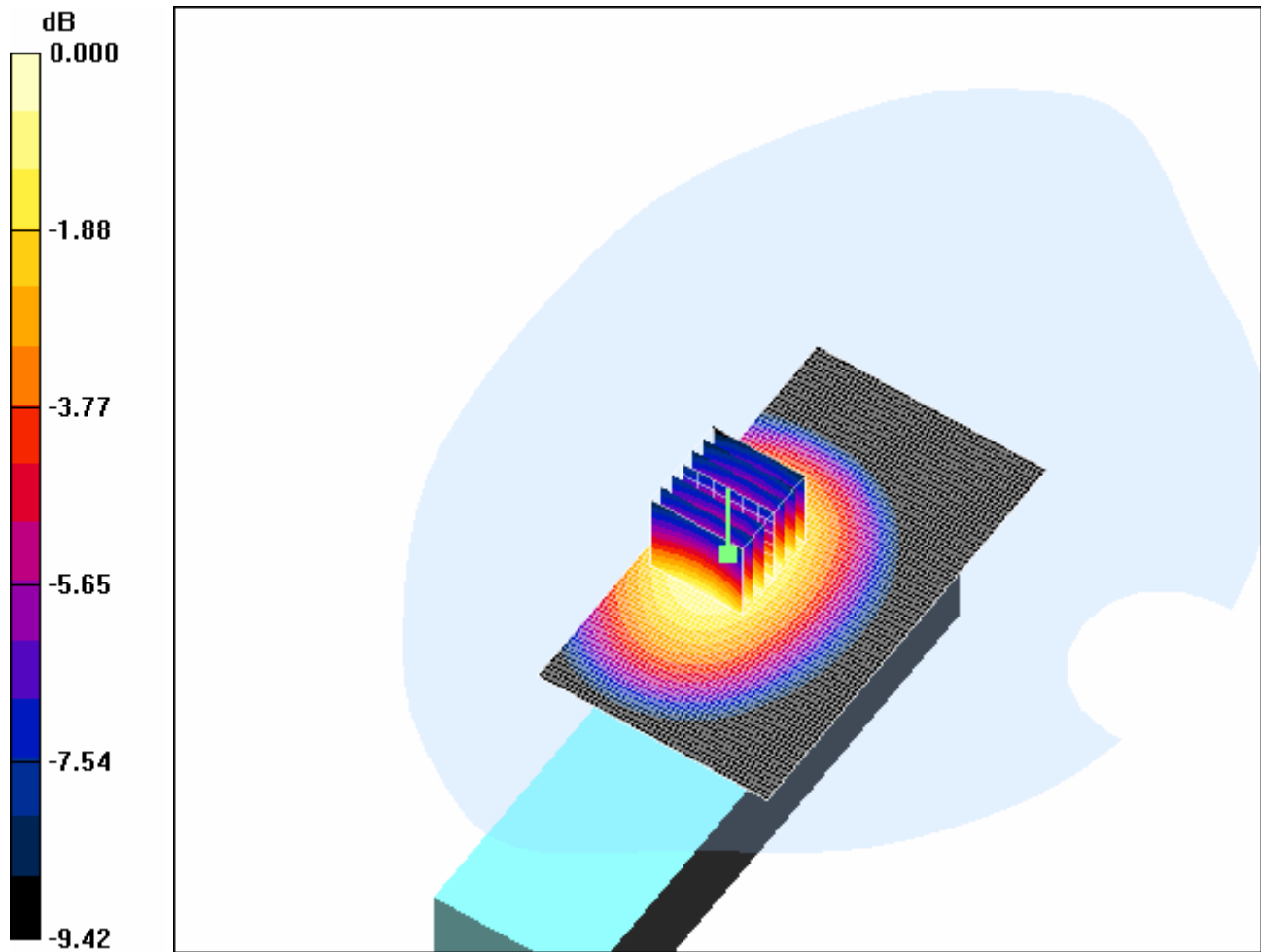
Body Worn - High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.7 V/m; Power Drift = 0.096 dB

Peak SAR (extrapolated) = 1.000 W/kg

SAR(1 g) = 0.743 mW/g; SAR(10 g) = 0.533 mW/g

Maximum value of SAR (measured) = 0.792 mW/g



0 dB = 0.792mW/g

4.45 WCDMA850-Body-Worn-WorstCase-BT

Date/Time: 2007-12-11 20:05:56

Test Laboratory: SGS-GSM

WCDMA Band V-Body-Worn-Low-1.5cm+BT

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band V ; Frequency: 826.4 MHz;Duty Cycle: 1:1

Medium: HSL900-Body Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.977$ mho/m; $\epsilon_r = 54.6$; $\rho =$

1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(8.02, 8.02, 8.02); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Low+BT/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.896 mW/g

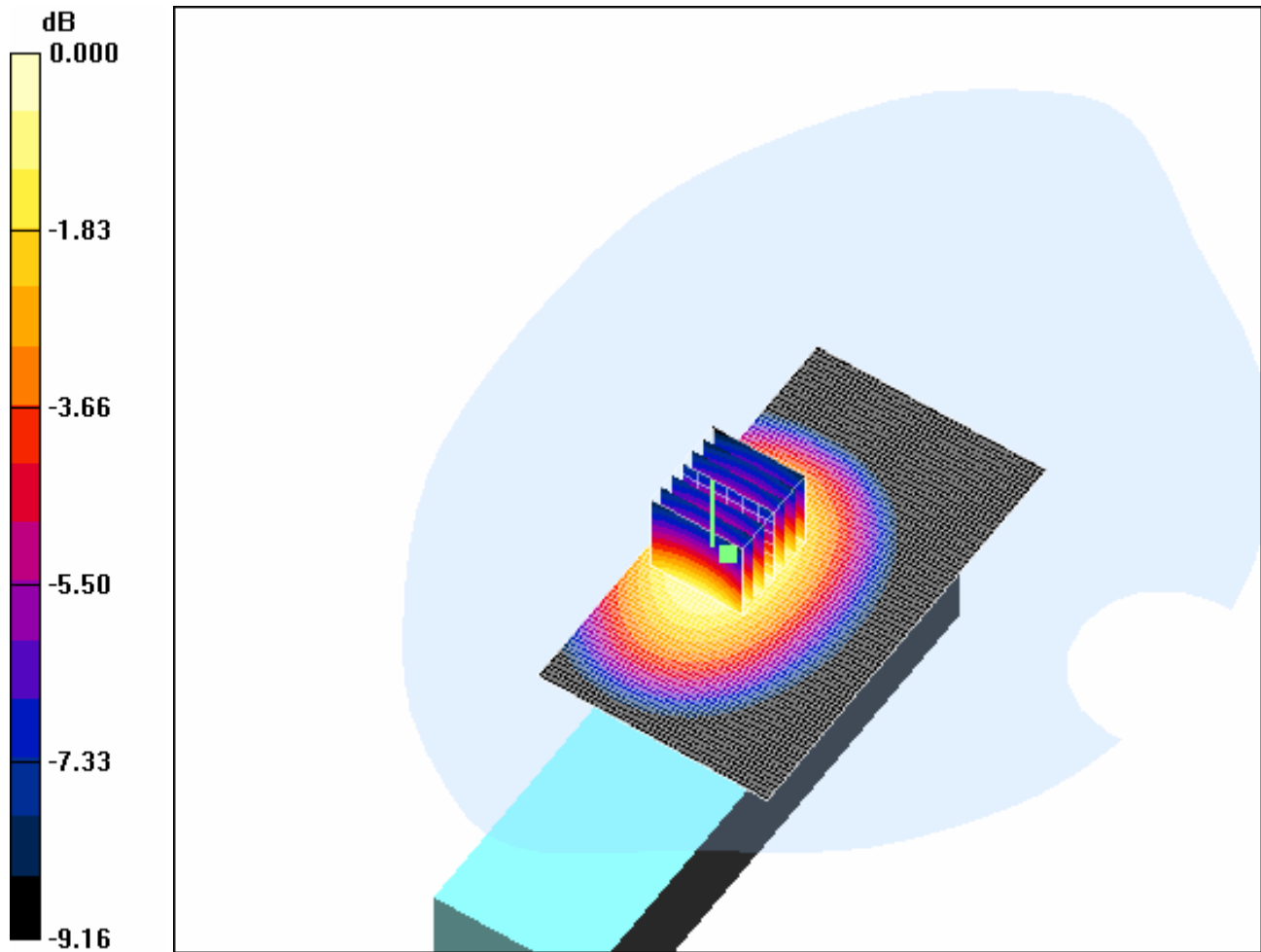
Body Worn - Low+BT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.3 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.853 mW/g; SAR(10 g) = 0.611 mW/g

Maximum value of SAR (measured) = 0.899 mW/g



0 dB = 0.899mW/g

4.46 WCDMA1900-LeftHandSide-Cheek-Middle

Date/Time: 2007-12-28 17:32:54

Test Laboratory: SGS-GSM

WCDMA Band II-LeftHandSide-Cheek-Middle

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band II ; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium: HSL1900_Head Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.8$; $\rho =$

1000 kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.859 mW/g

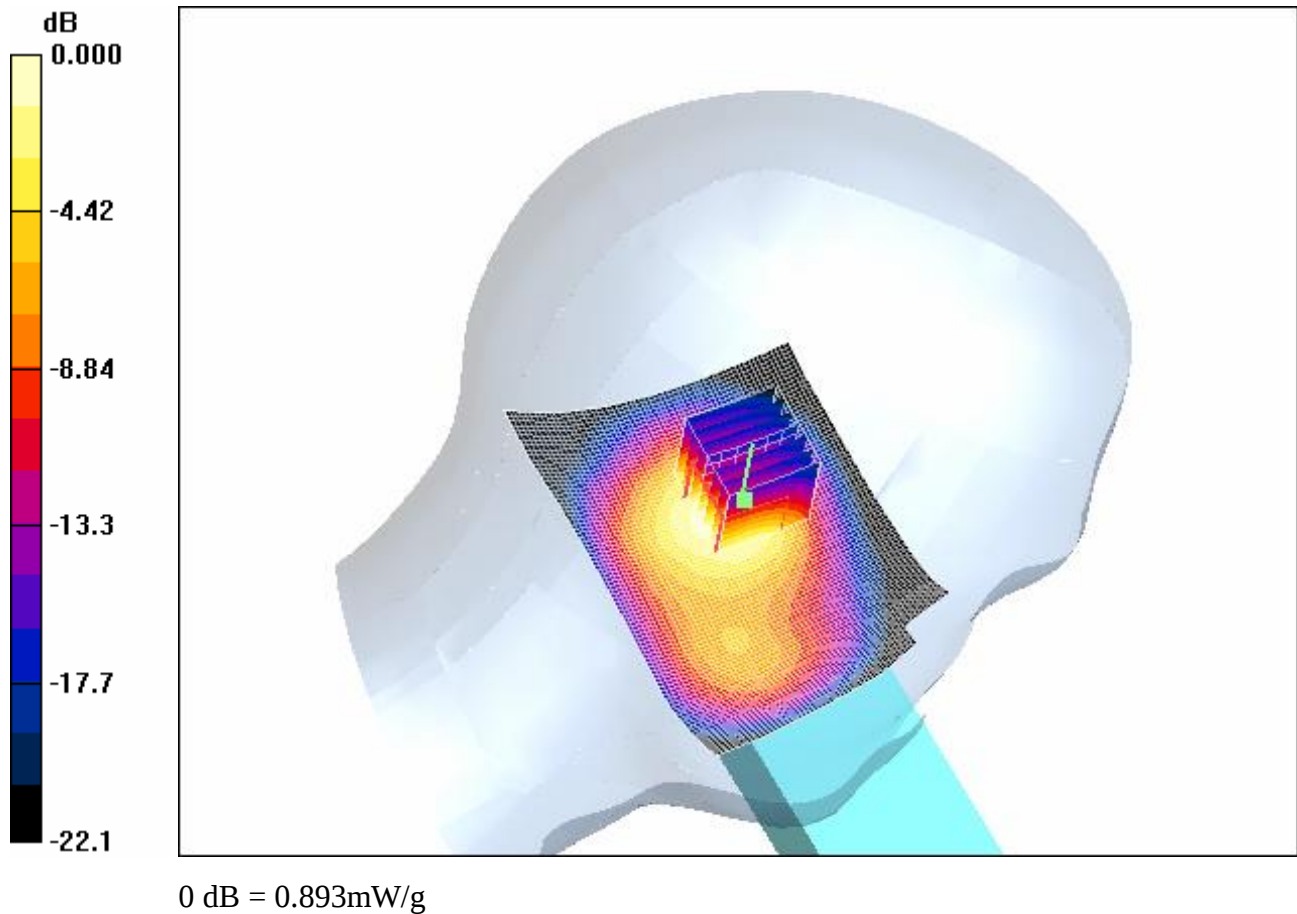
Cheek position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.3 V/m; Power Drift = 0.134 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.797 mW/g; SAR(10 g) = 0.401 mW/g

Maximum value of SAR (measured) = 0.893 mW/g



4.47 WCDMA1900-LeftHandSide-Tilt-Middle

Date/Time: 2007-12-28 22:14:54

Test Laboratory: SGS-GSM

WCDMA Band II-LeftHandSide-Tilt-Middle

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band II ; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium: HSL1900_Head Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Tilt position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.691 mW/g

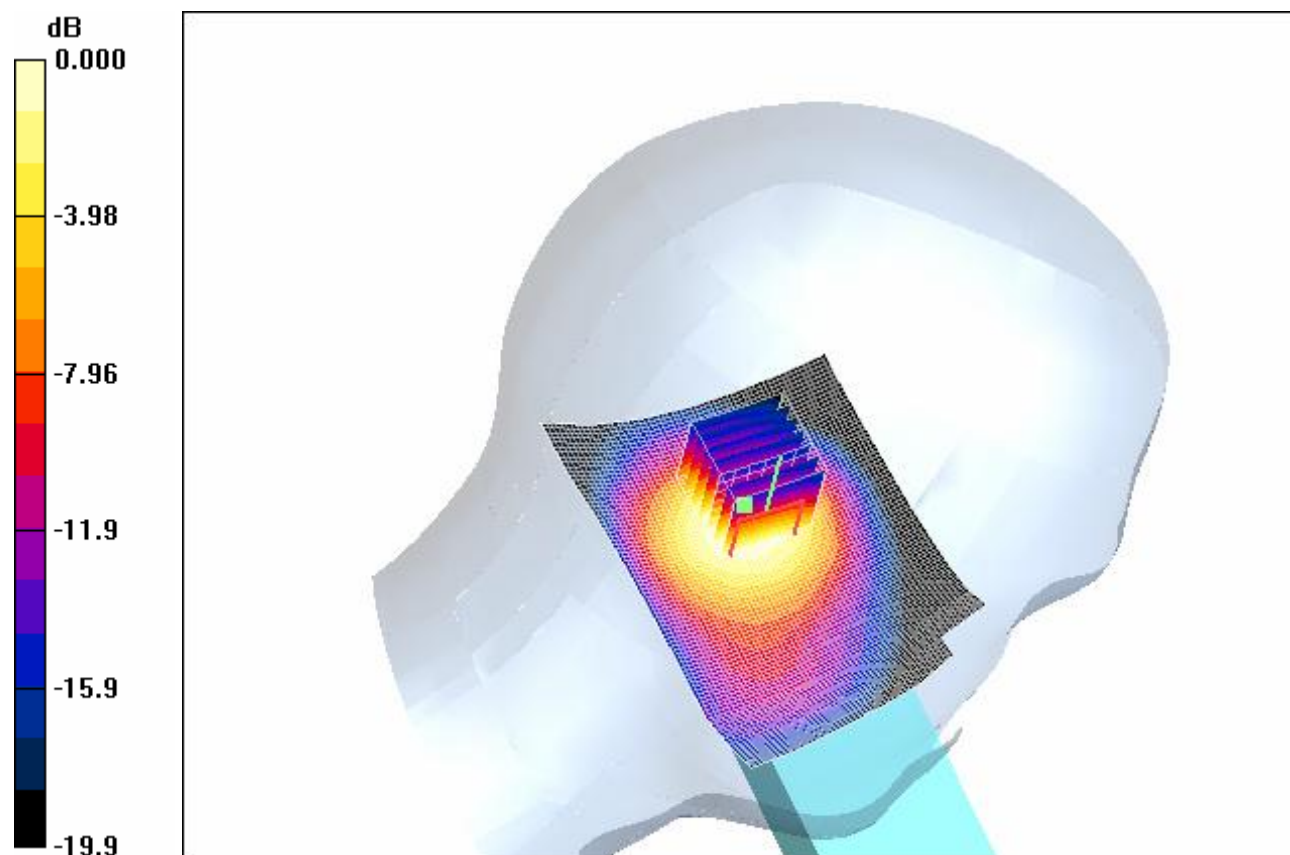
Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.7 V/m; Power Drift = 0.060 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.582 mW/g; SAR(10 g) = 0.321 mW/g

Maximum value of SAR (measured) = 0.643 mW/g



0 dB = 0.643mW/g

4.48 WCDMA1900-LeftHandSide-Cheek-Low

Date/Time: 2007-12-28 17:57:51

Test Laboratory: SGS-GSM

WCDMA Band II-LeftHandSide-Cheek-Low

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band II ; Frequency: 1852.4 MHz;Duty Cycle: 1:1

Medium: HSL1900_Head Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Low/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.929 mW/g

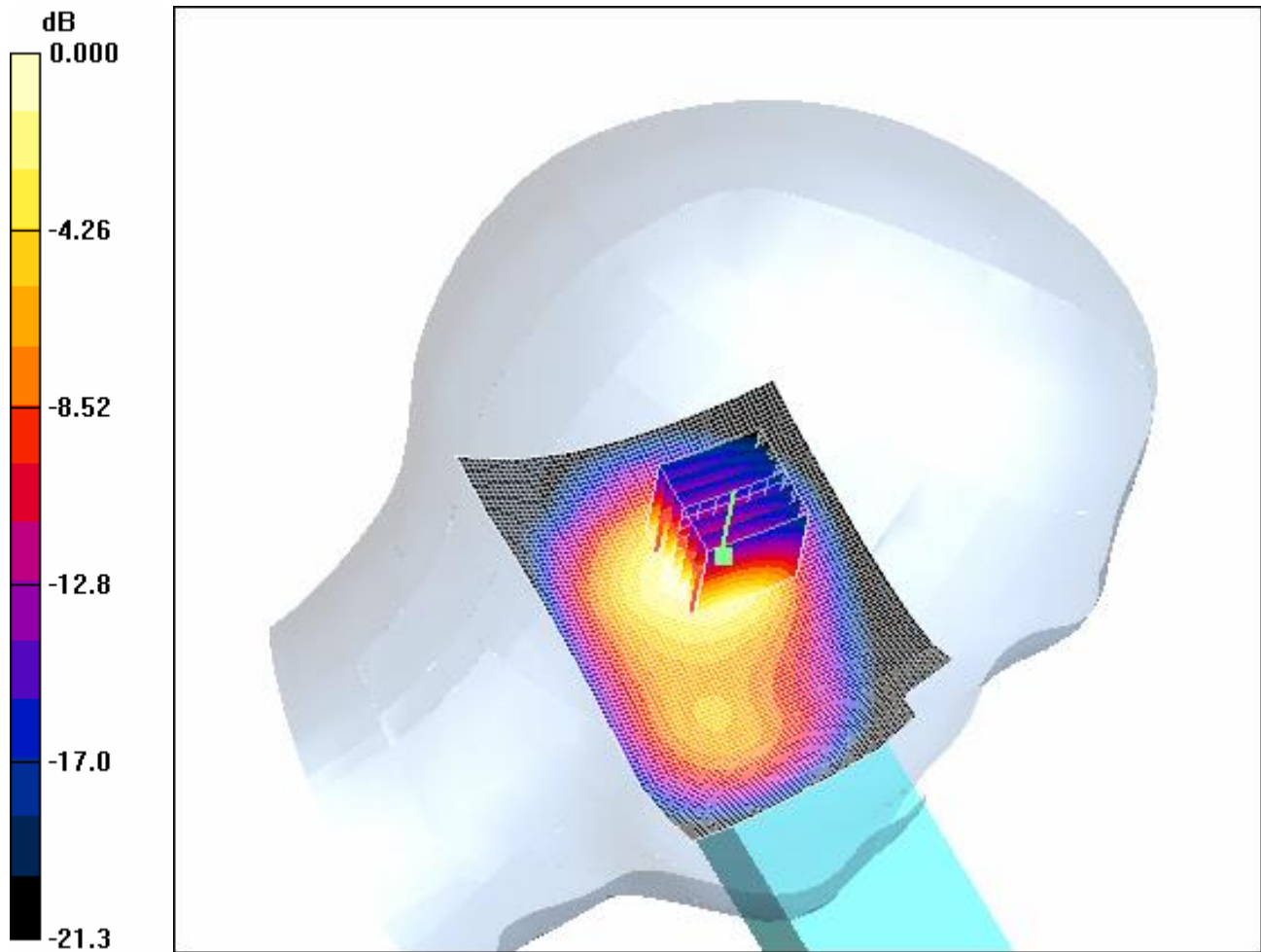
Cheek position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.3 V/m; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 0.830 mW/g; SAR(10 g) = 0.422 mW/g

Maximum value of SAR (measured) = 0.920 mW/g



0 dB = 0.920mW/g

4.49 WCDMA1900-LeftHandSide-Cheek-High

Date/Time: 2007-12-28 21:37:27

Test Laboratory: SGS-GSM

WCDMA Band II-LeftHandSide-Cheek-High

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band II ; Frequency: 1907.6 MHz;Duty Cycle: 1:1

Medium: HSL1900_Head Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.8$; $\rho =$

1000 kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - High/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.651 mW/g

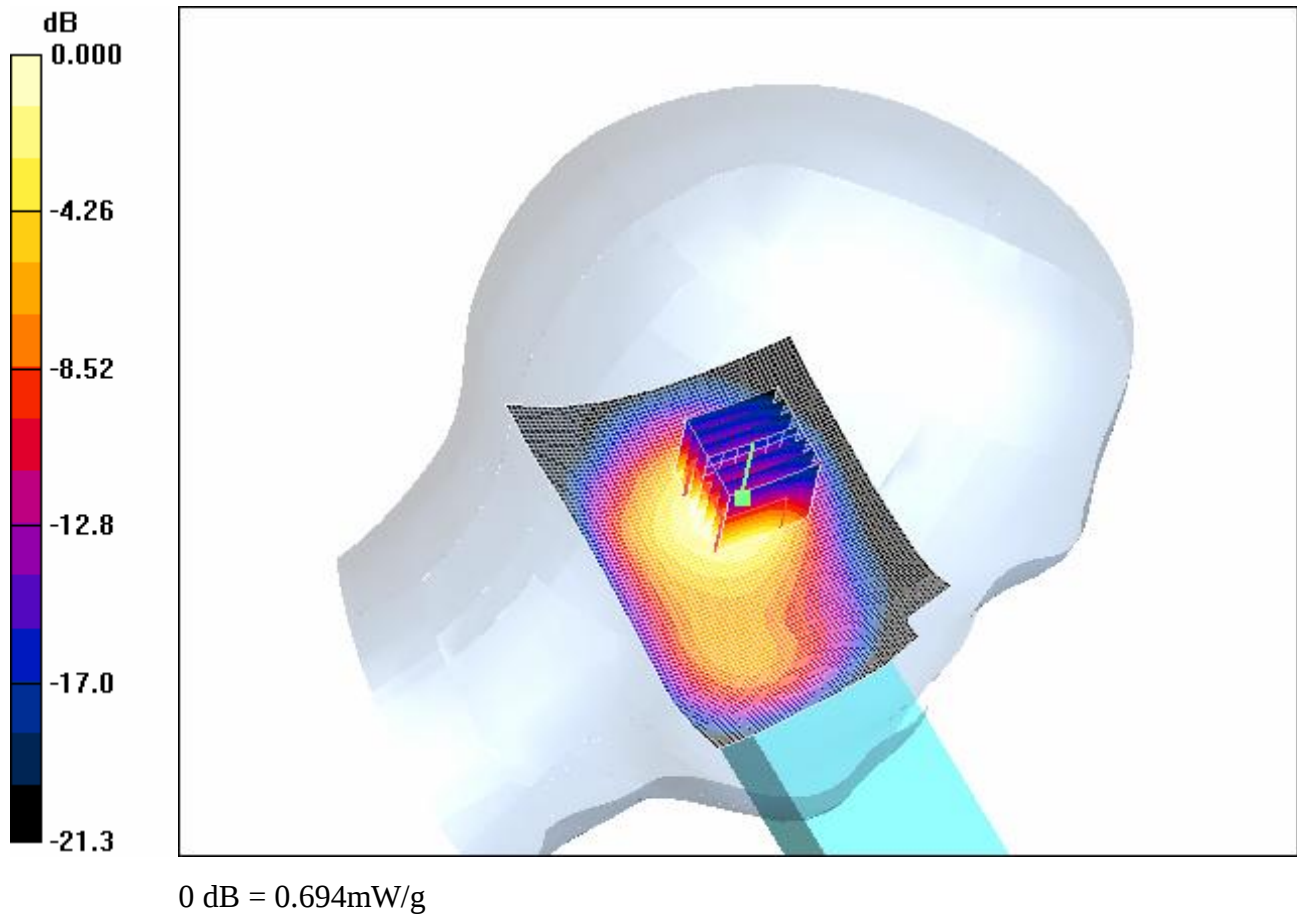
Cheek position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.2 V/m; Power Drift = -0.112 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.623 mW/g; SAR(10 g) = 0.314 mW/g

Maximum value of SAR (measured) = 0.694 mW/g



4.50 WCDMA1900-LeftHandSide-WorstCase-BT

Date/Time: 2007-12-28 8:27:02

Test Laboratory: SGS-GSM

WCDMA Band II-LeftHandSide-Cheek-Low+BT

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band II ; Frequency: 1852.4 MHz;Duty Cycle: 1:1

Medium: HSL1900_Head Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position - Low+BT/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.831 mW/g

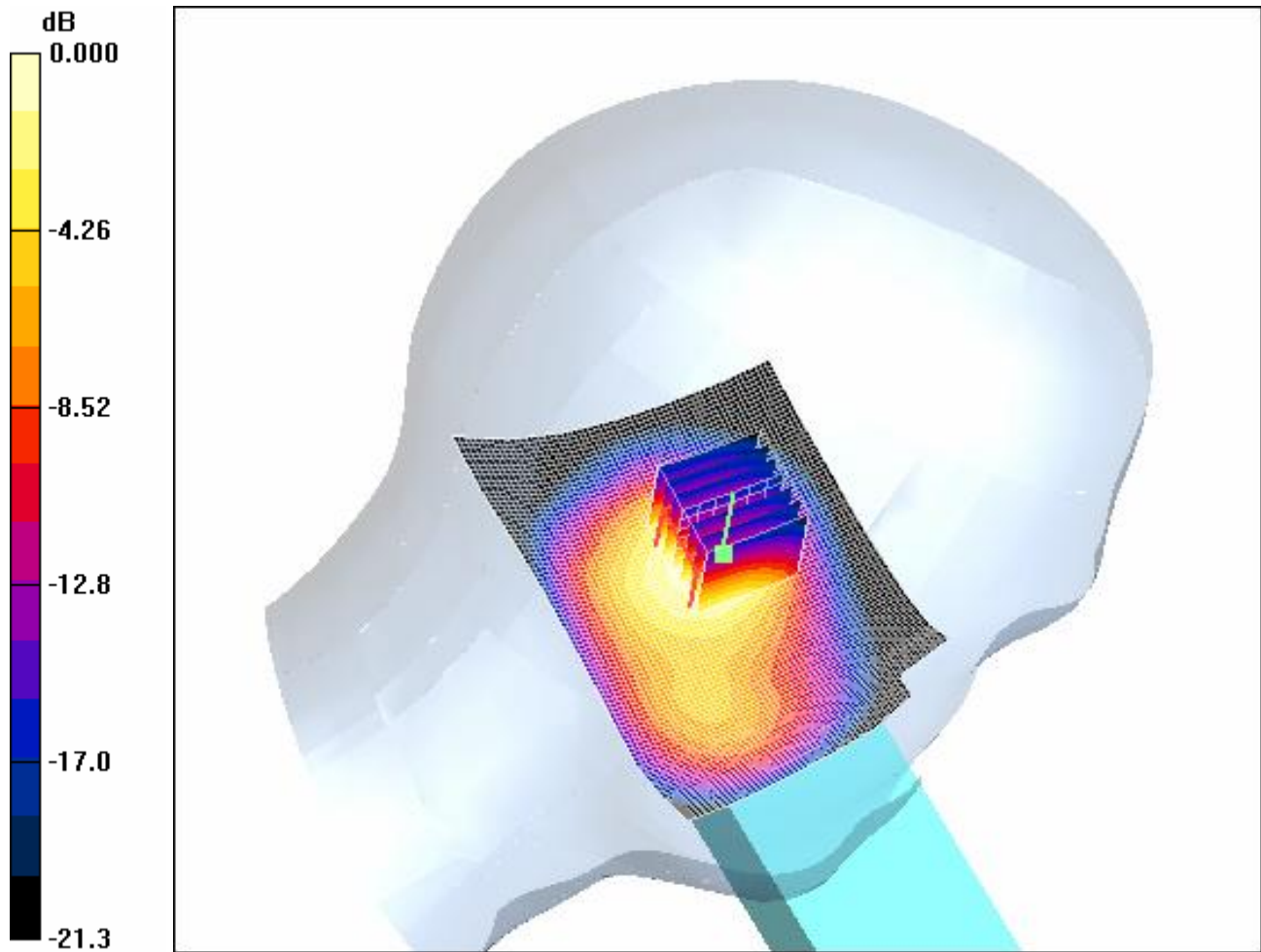
Cheek position - Low+BT/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.0 V/m; Power Drift = 0.173 dB

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 0.813 mW/g; SAR(10 g) = 0.409 mW/g

Maximum value of SAR (measured) = 0.910 mW/g



0 dB = 0.910mW/g

4.51 WCDMA1900-RightHandSide-Cheek-Middle

Date/Time: 2008-1-4 13:11:54

Test Laboratory: SGS-GSM

WCDMA Band II-RightHandSide-Cheek-Middle

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band II ; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium: HSL1900_Head Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.8$; $\rho =$

1000 kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position -Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.738 mW/g

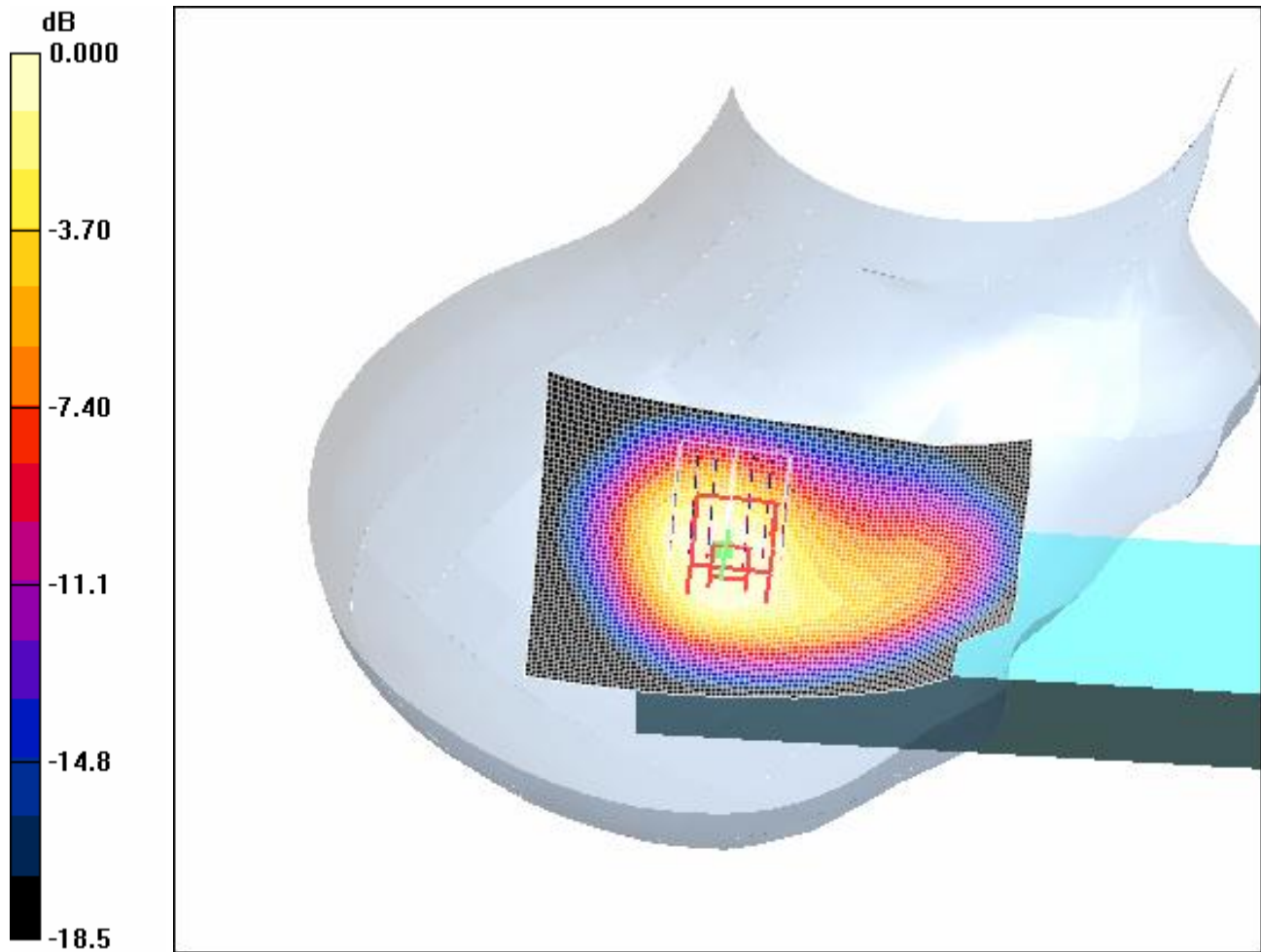
Cheek position -Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.0 V/m; Power Drift = 0.088 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.670 mW/g; SAR(10 g) = 0.383 mW/g

Maximum value of SAR (measured) = 0.725 mW/g



0 dB = 0.725mW/g

4.52 WCDMA1900-RightHandSide-Tilt-Middle

Date/Time: 2008-1-4 13:36:41

Test Laboratory: SGS-GSM

WCDMA Band II-RightHandSide-Tilt-Middle

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band II ; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium: HSL1900_Head Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.8$; $\rho =$

1000 kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Tilt position -Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.684 mW/g

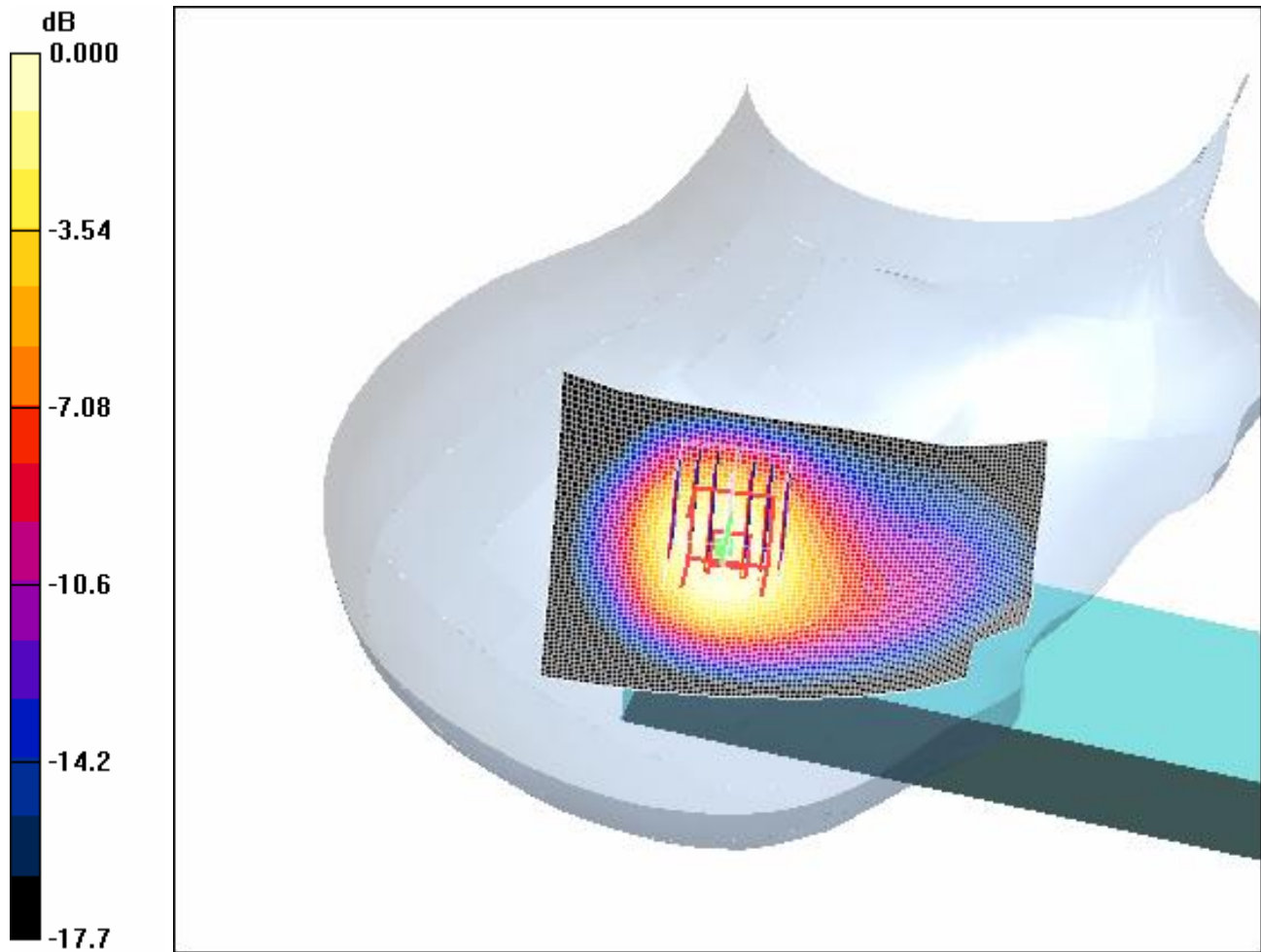
Tilt position -Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.0 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.590 mW/g; SAR(10 g) = 0.331 mW/g

Maximum value of SAR (measured) = 0.637 mW/g



0 dB = 0.637mW/g

4.53 WCDMA1900-RightHandSide-Cheek-Low

Date/Time: 2008-1-4 14:01:05

Test Laboratory: SGS-GSM

WCDMA Band II-RightHandSide-Cheek-Low

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band II ; Frequency: 1852.4 MHz;Duty Cycle: 1:1

Medium: HSL1900_Head Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.9$; $\rho =$

1000 kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position -Low/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.797 mW/g

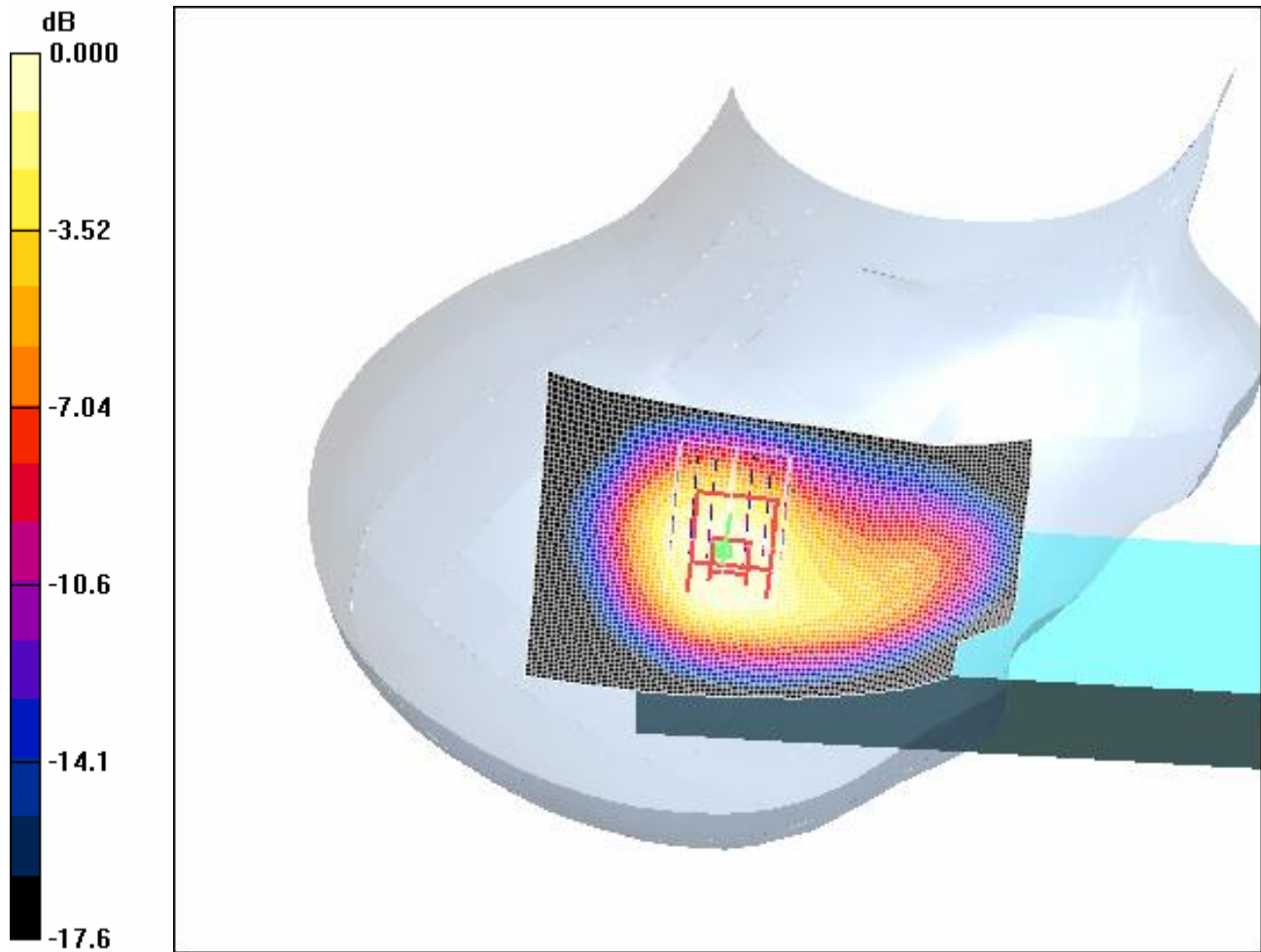
Cheek position -Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.0 V/m; Power Drift = 0.045 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.692 mW/g; SAR(10 g) = 0.398 mW/g

Maximum value of SAR (measured) = 0.748 mW/g



0 dB = 0.748mW/g

4.54 WCDMA1900-RightHandSide-Cheek-High

Date/Time: 2008-1-4 14:39:54

Test Laboratory: SGS-GSM

WCDMA Band II-RightHandSide-Cheek-High

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band II ; Frequency: 1907.6 MHz;Duty Cycle: 1:1

Medium: HSL1900_Head Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.8$; $\rho =$

1000 kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position -High/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.639 mW/g

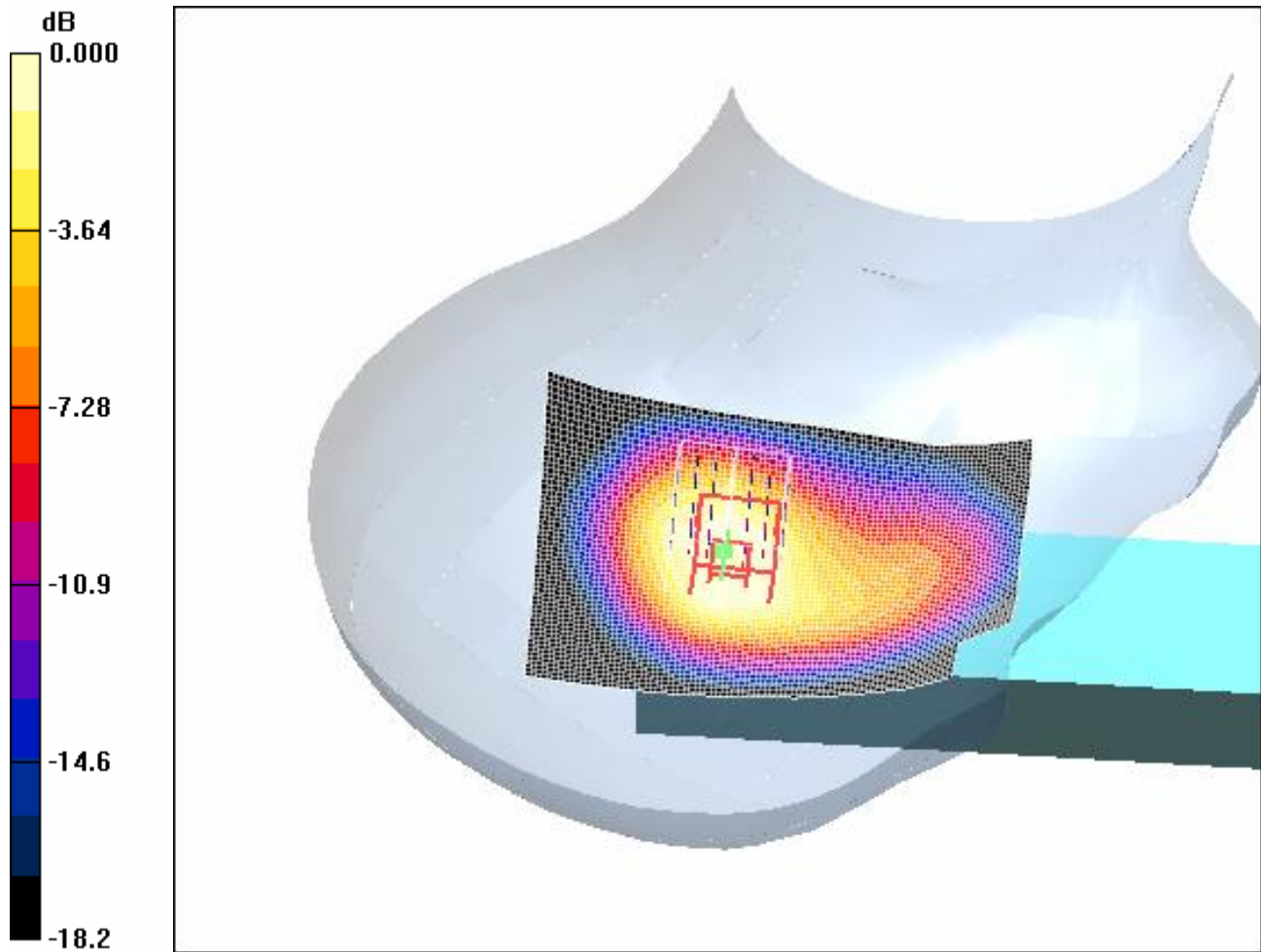
Cheek position -High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.1 V/m; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 0.982 W/kg

SAR(1 g) = 0.563 mW/g; SAR(10 g) = 0.319 mW/g

Maximum value of SAR (measured) = 0.607 mW/g



0 dB = 0.607mW/g

4.55 WCDMA1900-RightHandSide-WorstCase-BT

Date/Time: 2008-1-4 15:04:39

Test Laboratory: SGS-GSM

WCDMA Band II-RightHandSide-Cheek-Low+BT

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band II ; Frequency: 1852.4 MHz;Duty Cycle: 1:1

Medium: HSL1900_Head Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.9$; $\rho =$

1000 kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.9, 6.9, 6.9); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek position -Low +BT/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.814 mW/g

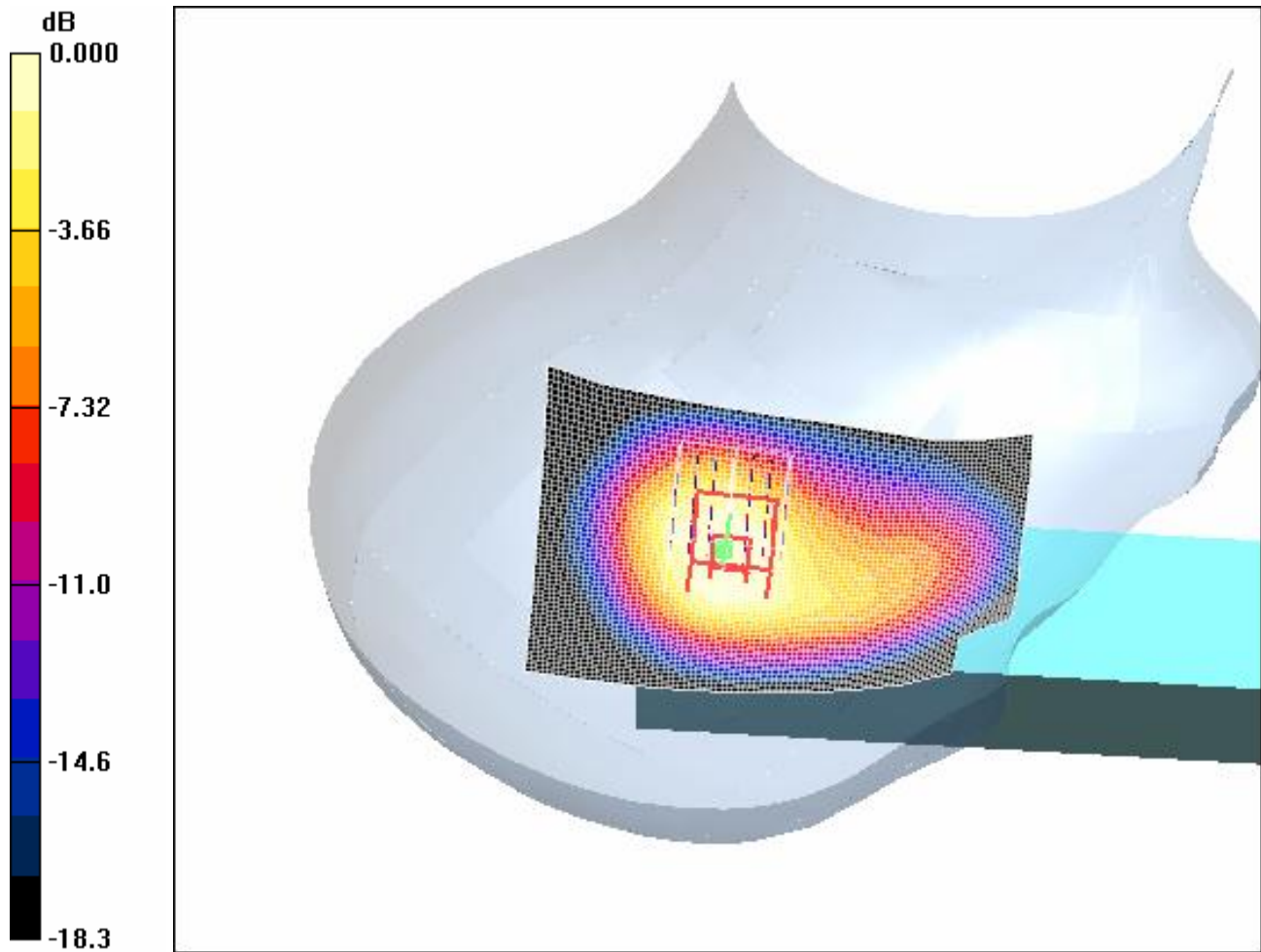
Cheek position -Low +BT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.4 V/m; Power Drift = -0.085 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.721 mW/g; SAR(10 g) = 0.414 mW/g

Maximum value of SAR (measured) = 0.781 mW/g



0 dB = 0.781mW/g

4.56 WCDMA1900-Body-Worn-Middle

Date/Time: 2007-12-11 16:06:22

Test Laboratory: SGS-GSM

WCDMA Band II-Body-Worn-Middle-1.5cm

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band II ; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 51.7$; $\rho =$

1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.97, 6.97, 6.97); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.557 mW/g

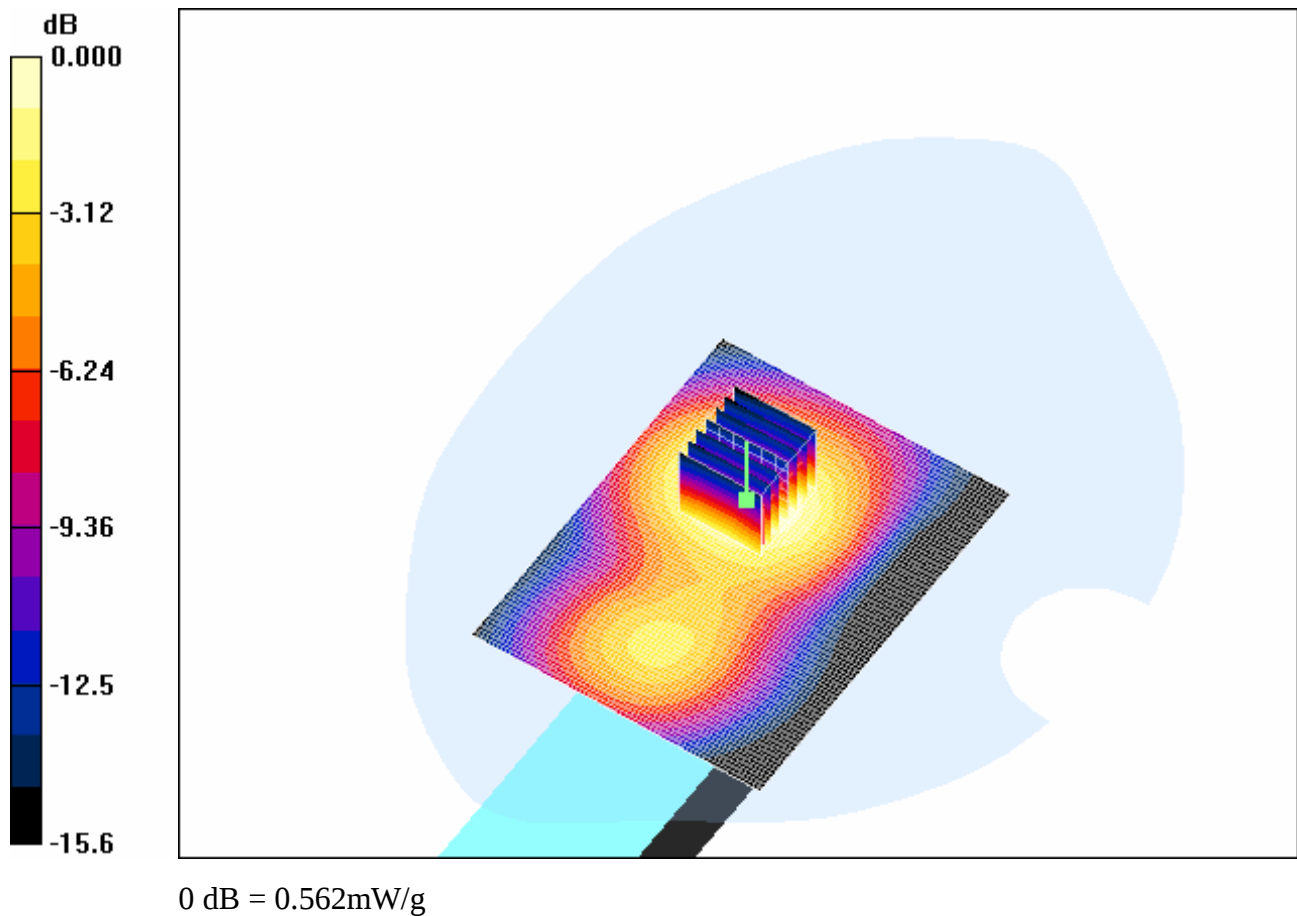
Body Worn - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.2 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 0.882 W/kg

SAR(1 g) = 0.515 mW/g; SAR(10 g) = 0.306 mW/g

Maximum value of SAR (measured) = 0.562 mW/g



4.57 WCDMA1900-Body-Worn-HSDPA-Middle

Date/Time: 2007-12-11 13:47:11

Test Laboratory: SGS-GSM

WCDMA Band II-Body-Worn-HSDPA-Middle-1.5cm

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band II HSDPA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.97, 6.97, 6.97); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.568 mW/g

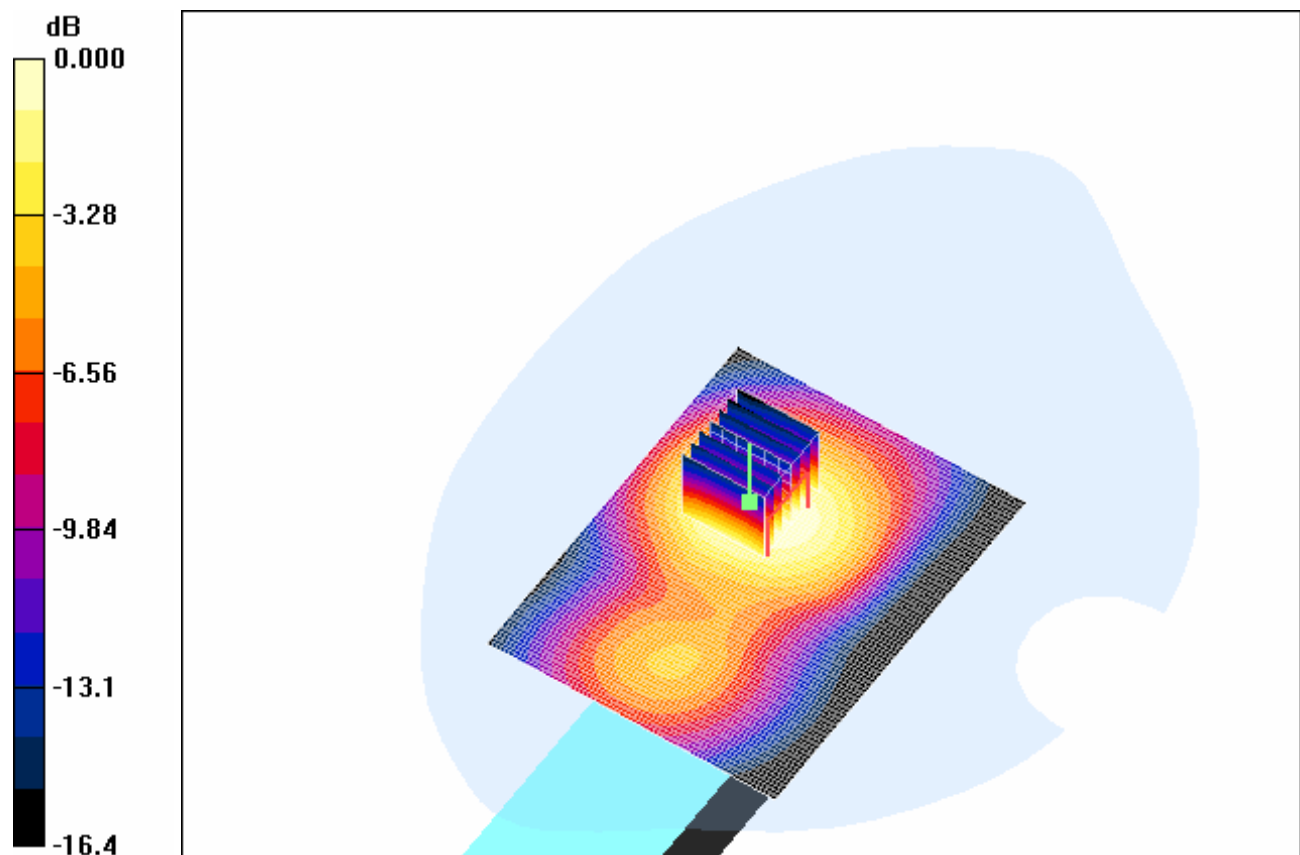
Body Worn - Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.4 V/m; Power Drift = 0.116 dB

Peak SAR (extrapolated) = 0.866 W/kg

SAR(1 g) = 0.491 mW/g; SAR(10 g) = 0.290 mW/g

Maximum value of SAR (measured) = 0.528 mW/g



0 dB = 0.528mW/g

4.58 WCDMA1900-Body-Worn-WorstCase-Low

Date/Time: 2007-12-11 10:26:17

Test Laboratory: SGS-GSM

WCDMA Band II-Body-Worn-Low-1.5cm

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band II ; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.97, 6.97, 6.97); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Low/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.754 mW/g

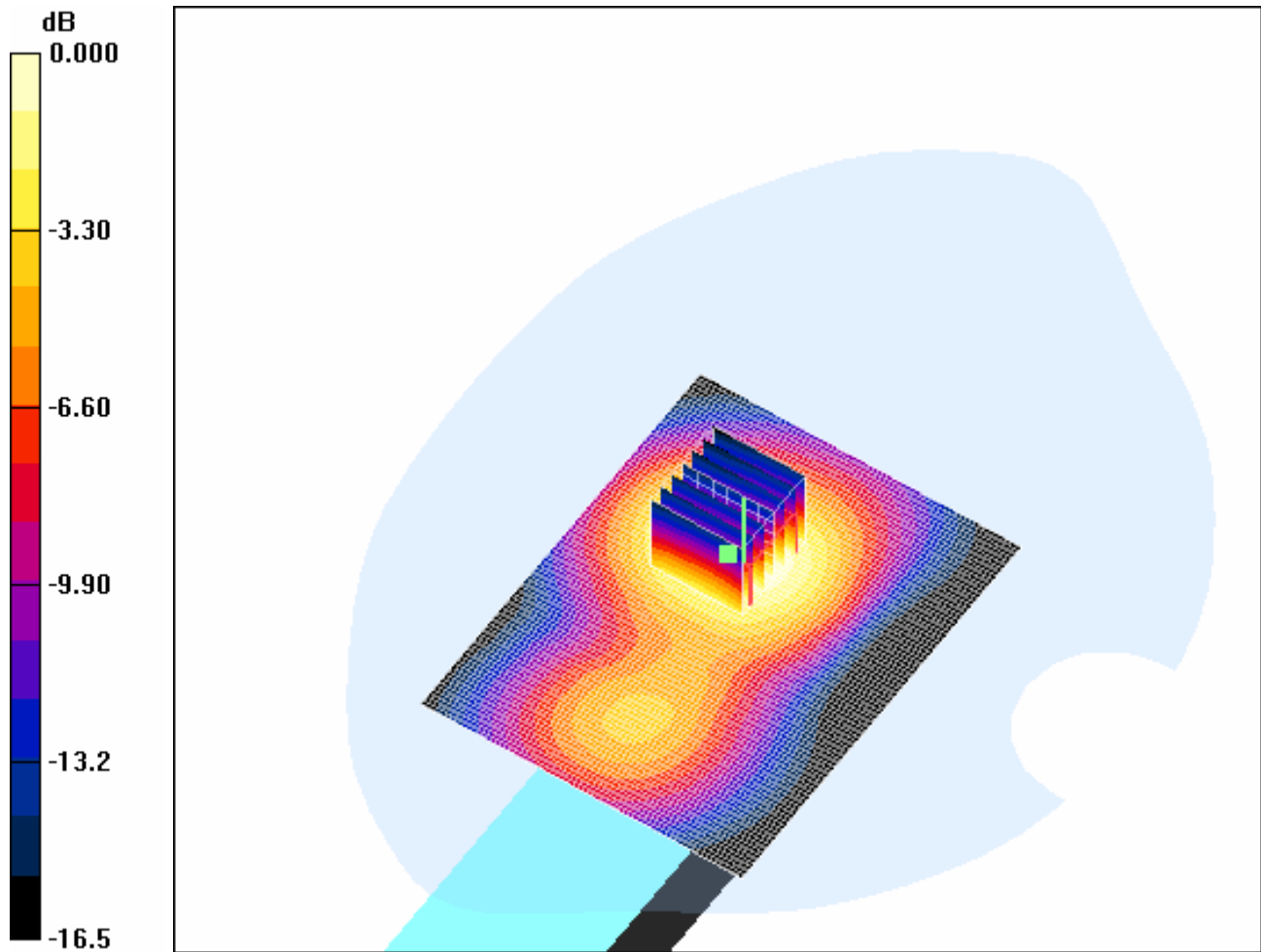
Body Worn - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.0 V/m; Power Drift = 0.076 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.694 mW/g; SAR(10 g) = 0.401 mW/g

Maximum value of SAR (measured) = 0.762 mW/g



0 dB = 0.762mW/g

4.59 WCDMA1900-Body-Worn-WorstCase-High

Date/Time: 2007-12-11 11:34:39

Test Laboratory: SGS-GSM

WCDMA Band II-Body-Worn-High-1.5cm

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band II ; Frequency: 1907.6 MHz;Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 51.6$; $\rho =$

1000 kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.97, 6.97, 6.97); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - High/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.342 mW/g

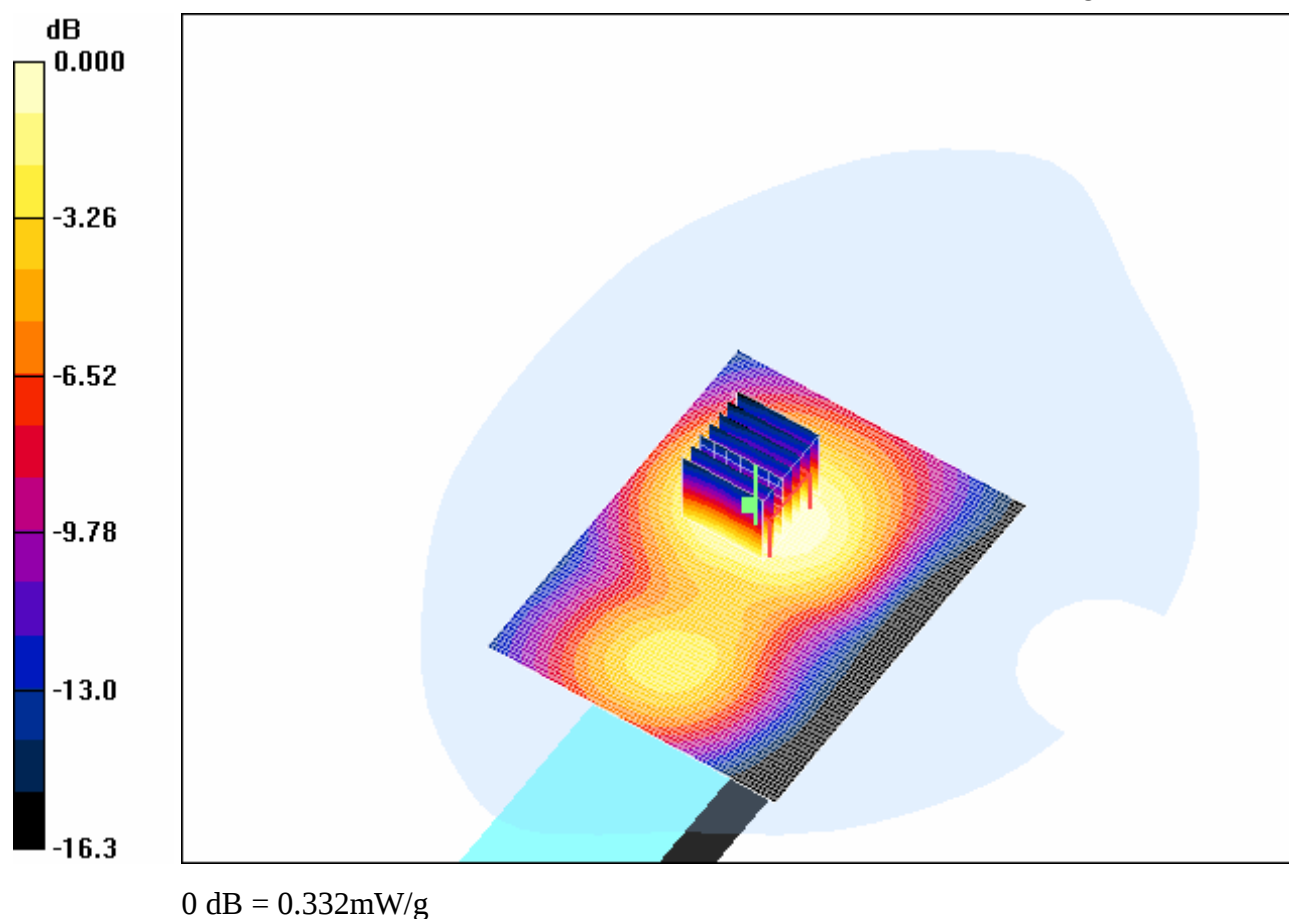
Body Worn - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.9 V/m; Power Drift = -0.078 dB

Peak SAR (extrapolated) = 0.533 W/kg

SAR(1 g) = 0.311 mW/g; SAR(10 g) = 0.187 mW/g

Maximum value of SAR (measured) = 0.332 mW/g



4.60 WCDMA1900-Body-Worn-WorstCase-BT

Date/Time: 2007-12-11 15:11:13

Test Laboratory: SGS-GSM

WCDMA Band II-Body-Worn-Low-1.5cm+BT

DUT: GSM10720803M04; Type: Head; Serial: 357406010003364

Communication System: WCDMA Band II ; Frequency: 1852.4 MHz;Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used: $f = 1852.4 \text{ MHz}$; $\sigma = 1.51 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(6.97, 6.97, 6.97); Calibrated: 2007-4-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Low+BT/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.740 mW/g

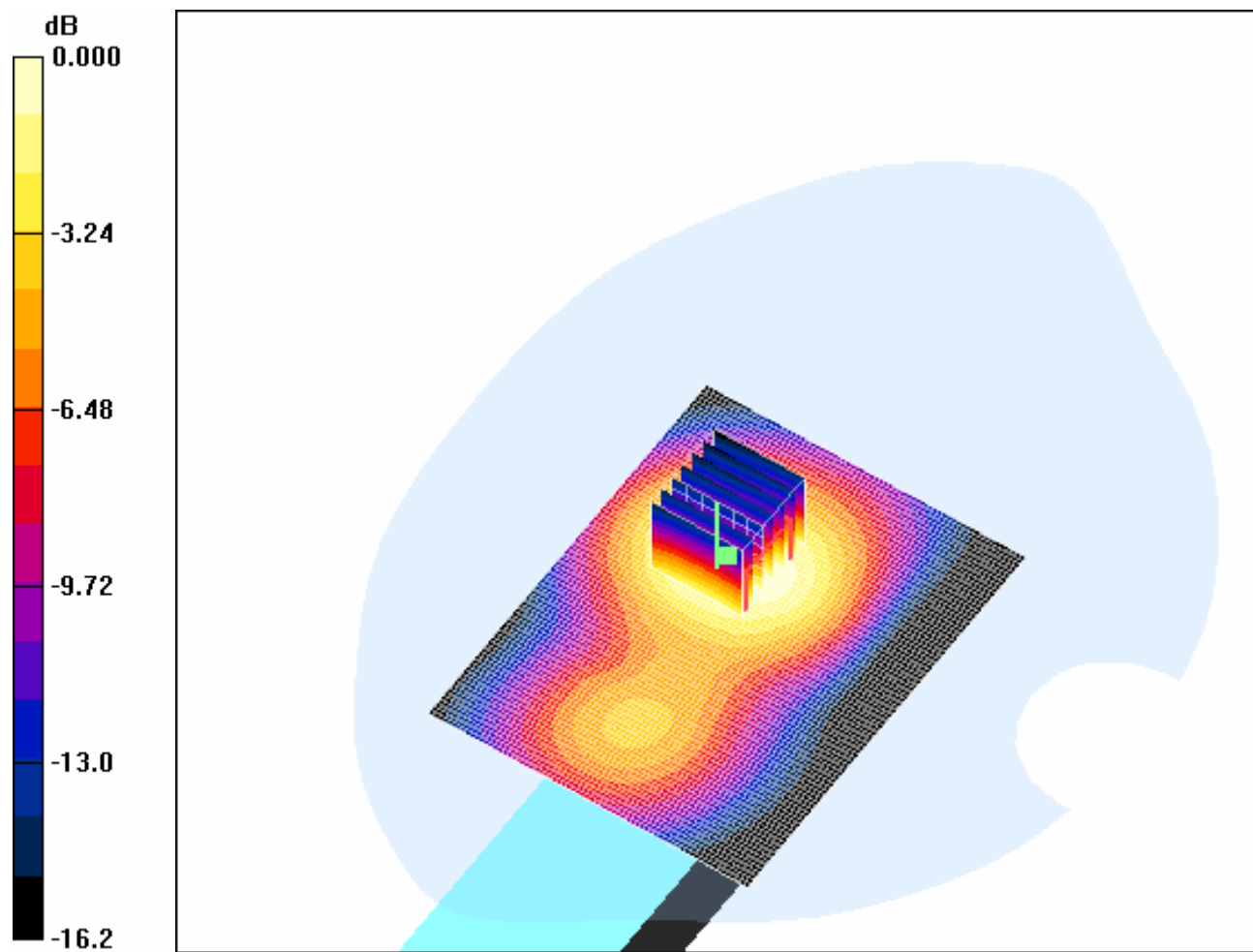
Body Worn - Low+BT/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.5 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.667 mW/g; SAR(10 g) = 0.392 mW/g

Maximum value of SAR (measured) = 0.719 mW/g



0 dB = 0.719mW/g