

	SAR Test Plots
	Project name :
	KS090701A02

EUT DESCRIPTION

Product:	GSM Mobile Phone
Model:	ZMAM120
Trade name:	Zonda
FCC ID:	U46-ZMAM120
Tested:	July 2, 2009
Applicant:	TeleEpoch Limited
	2/F, R2-A North Gate, Shenzhen High-Tech Industria Nanshan District, Shenzhen, Guang Dong, China

Air Temperature: 21 °C Liquefied Temperature: 20 °C
 Crest Factor: CW: 1 GSM: 8 GPRS 10: 4
Area Scan: 7 x 7 x 1 dx=15mm dy=15mm
Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm
Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm
Probe: Antennessa (SN:SN_1109_EP_100)

Compliance Certification Services (Kunshan) Inc.
No.10, Weiye Rd., Innovation Park, Eco & Tec. Development Part,
Kunshan City, Jiangsu Province, PRC.
TEL: 86-512-57355888
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<http://www.ccsrf.com>

GSM850

I. RESULTS

<u>TYPE</u>	<u>BAND</u>	<u>PARAMETERS</u>
<u>Noise</u>	--	--
<u>Validation</u>	--	--
<u>Phone</u>	<u>GSM850</u>	<u>Measurement 1:</u> Right Head with Cheek device position on Low Channel in GMSK mode <u>Measurement 2:</u> Right Head with Cheek device position on Middle Channel in GMSK mode <u>Measurement 3:</u> Right Head with Cheek device position on High Channel in GMSK mode <u>Measurement 4:</u> Right Head with Tilt device position on Low Channel in GMSK mode <u>Measurement 5:</u> Right Head with Tilt device position on Middle Channel in GMSK mode <u>Measurement 6:</u> Right Head with Tilt device position on High Channel in GMSK mode <u>Measurement 7:</u> Left Head with Cheek device position on Low Channel in GMSK mode <u>Measurement 8:</u> Left Head with Cheek device position on Middle Channel in GMSK mode <u>Measurement 9:</u> Left Head with Cheek device position on High Channel in GMSK mode <u>Measurement 10:</u> Left Head with Tilt device position on Low Channel in GMSK mode <u>Measurement 11:</u> Left Head with Tilt device position on Middle Channel in GMSK mode <u>Measurement 12:</u> Left Head with Tilt device position on High Channel in GMSK mode <u>Measurement 13:</u> Validation Plane with Body device position on Low Channel in GMSK mode <u>Measurement 14:</u> Validation Plane with Body device position on Middle Channel in GMSK mode <u>Measurement 15:</u> Validation Plane with Body device position on High Channel in GMSK mode

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 19 minutes 56 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

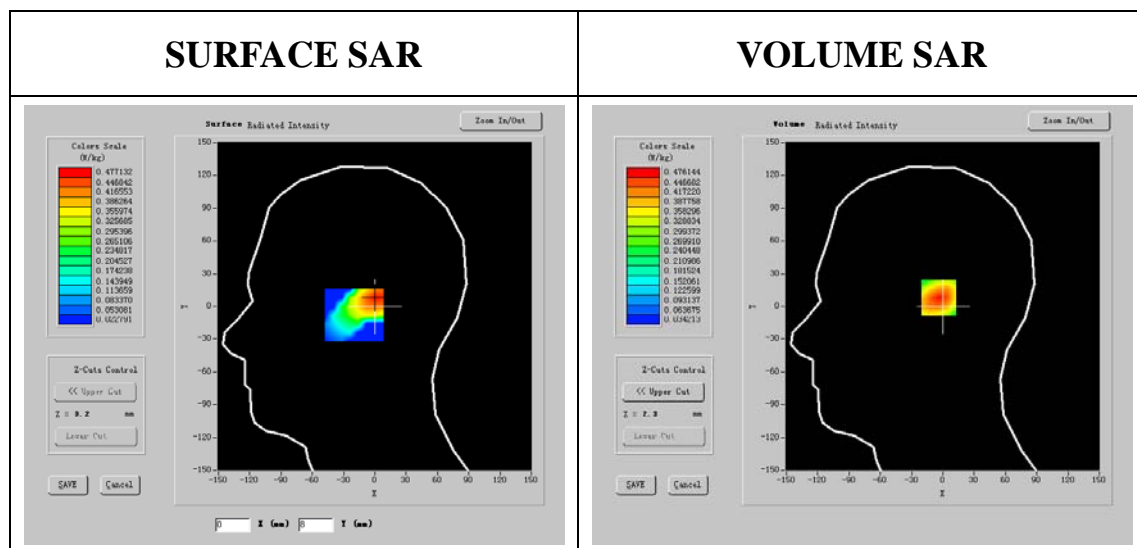
Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

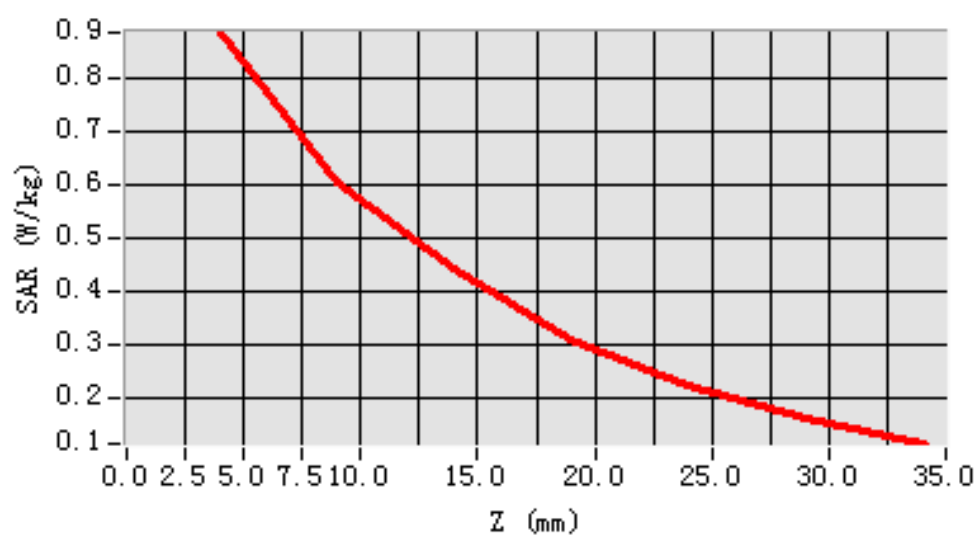
Frequency (MHz)	824.200012
Relative permittivity (real part)	41.466999
Relative permittivity (imaginary part)	19.511101
Conductivity (S/m)	0.893392
Variation (%)	-1.490000



SAR 10g (W/Kg)	0.554768
SAR 1g (W/Kg)	0.849592

Z Axis Scan

SAR, Z Axis Scan (X = -13, Y = -3)



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 19 minutes 56 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

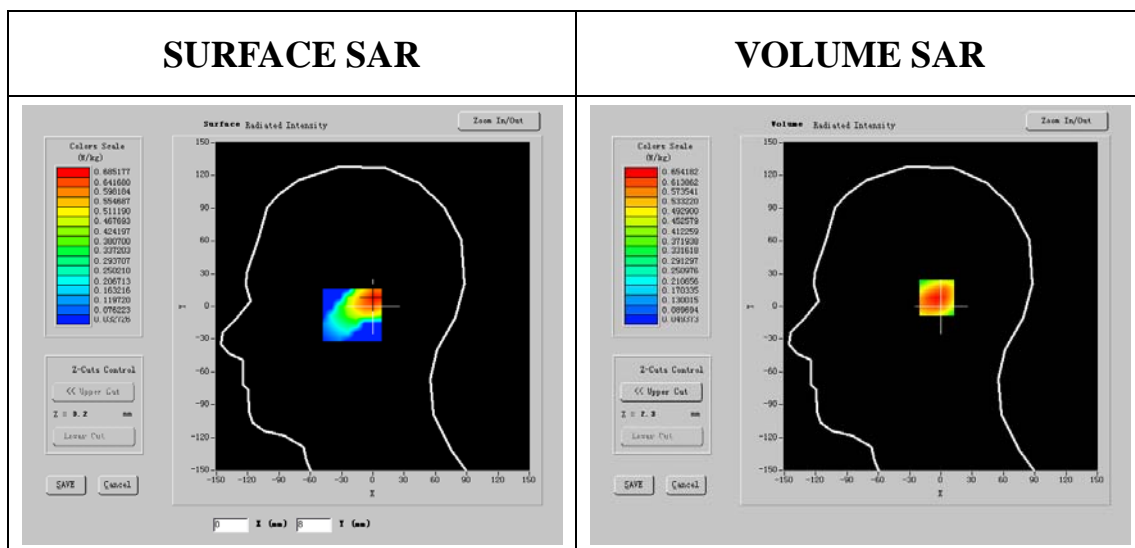
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100))
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

Frequency (MHz)	836.400024
Relative permittivity (real part)	41.466999
Relative permittivity (imaginary part)	19.511101
Conductivity (S/m)	0.906616
Variation (%)	-0.110000

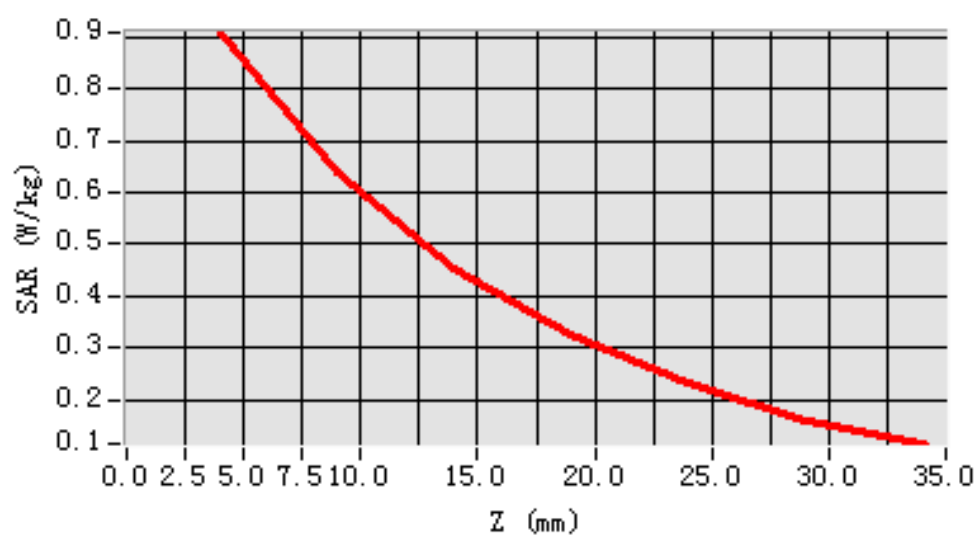


Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.572515
SAR 1g (W/Kg)	0.872909

Z Axis Scan

SAR, Z Axis Scan (X = -13, Y = -3)



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 19 minutes 56 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

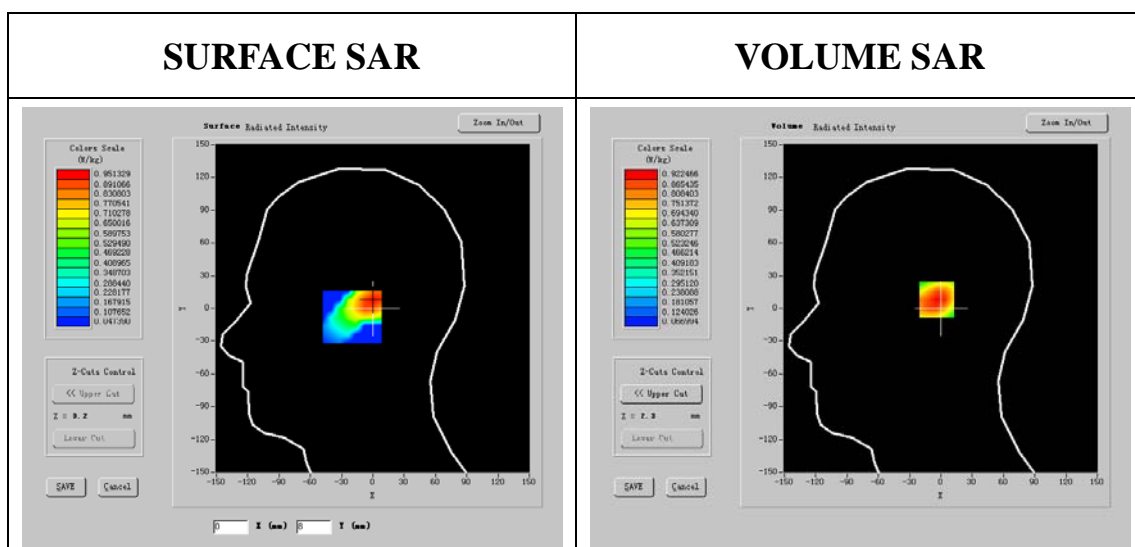
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100))
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

Frequency (MHz)	848.599976
Relative permittivity (real part)	41.262001
Relative permittivity (imaginary part)	19.598200
Conductivity (S/m)	0.923946
Variation (%)	-0.110000

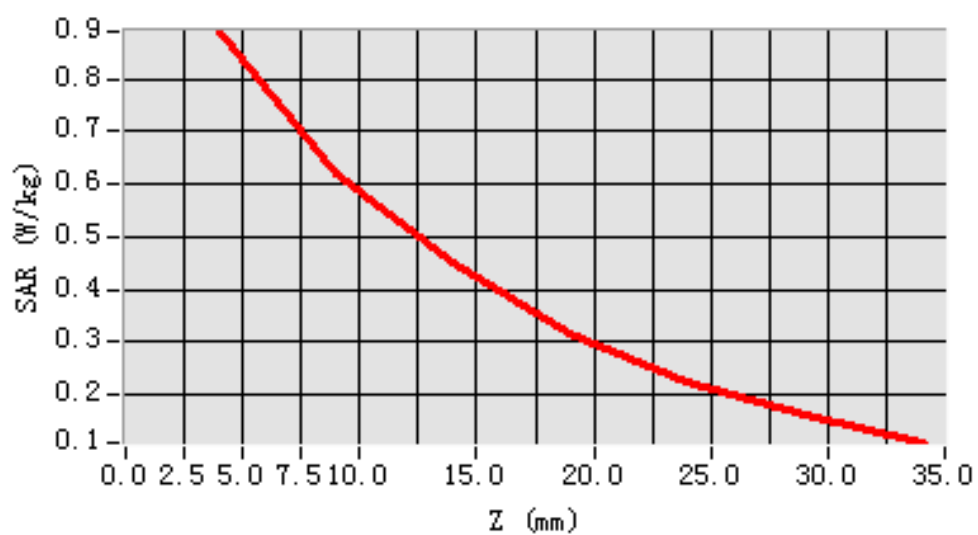


Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.563414
SAR 1g (W/Kg)	0.853829

Z Axis Scan

SAR, Z Axis Scan (X = -13, Y = -3)



MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 19 minutes 47 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

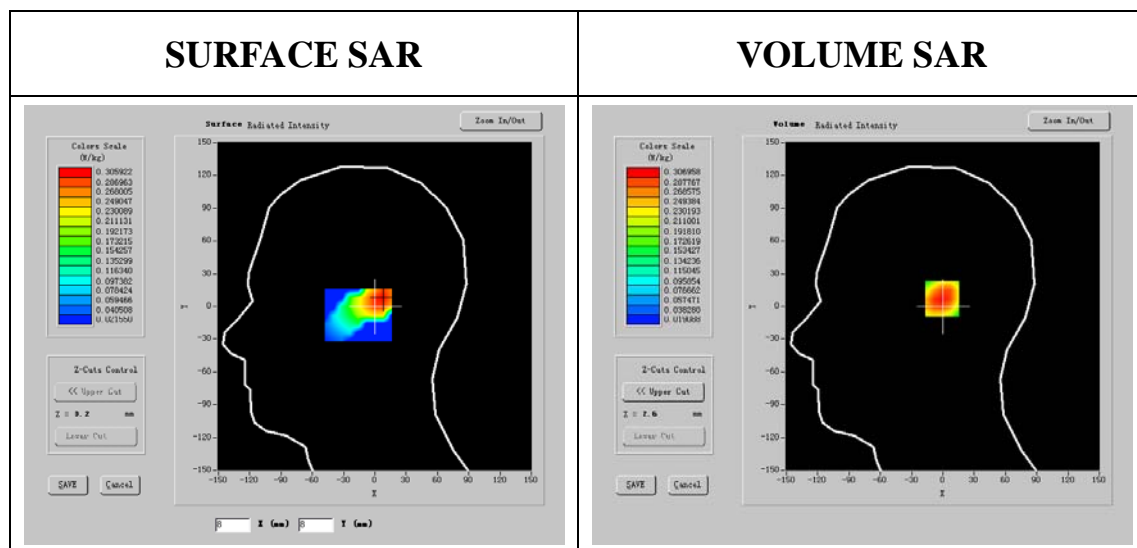
Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100))
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

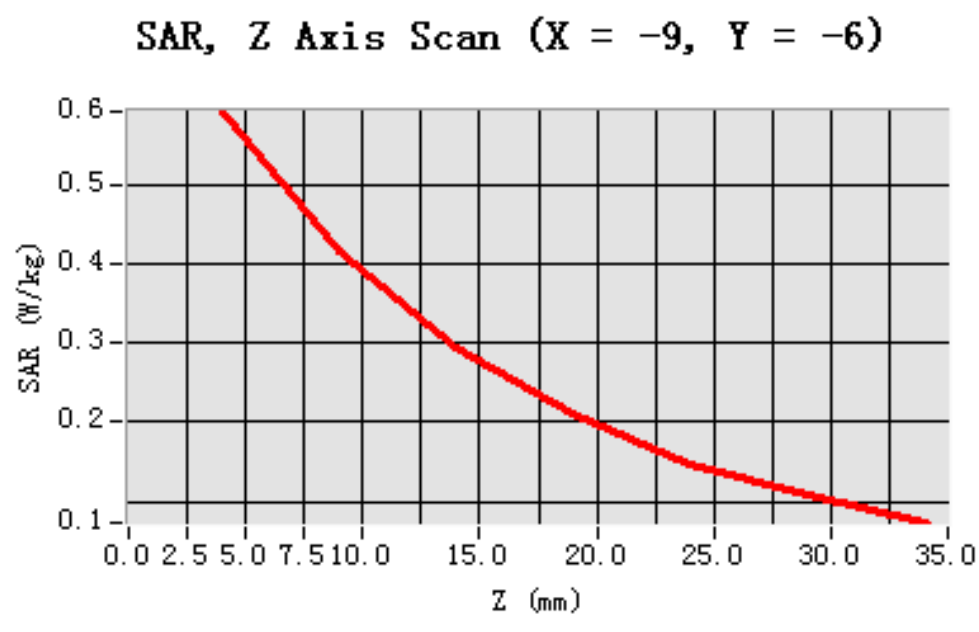
Frequency (MHz)	824.200012
Relative permittivity (real part)	41.466999
Relative permittivity (imaginary part)	19.511101
Conductivity (S/m)	0.893392
Variation (%)	-3.070000



Maximum location: X=-9.00, Y=-6.00

SAR 10g (W/Kg)	0.379502
SAR 1g (W/Kg)	0.585937

Z Axis Scan



MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 19 minutes 47 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

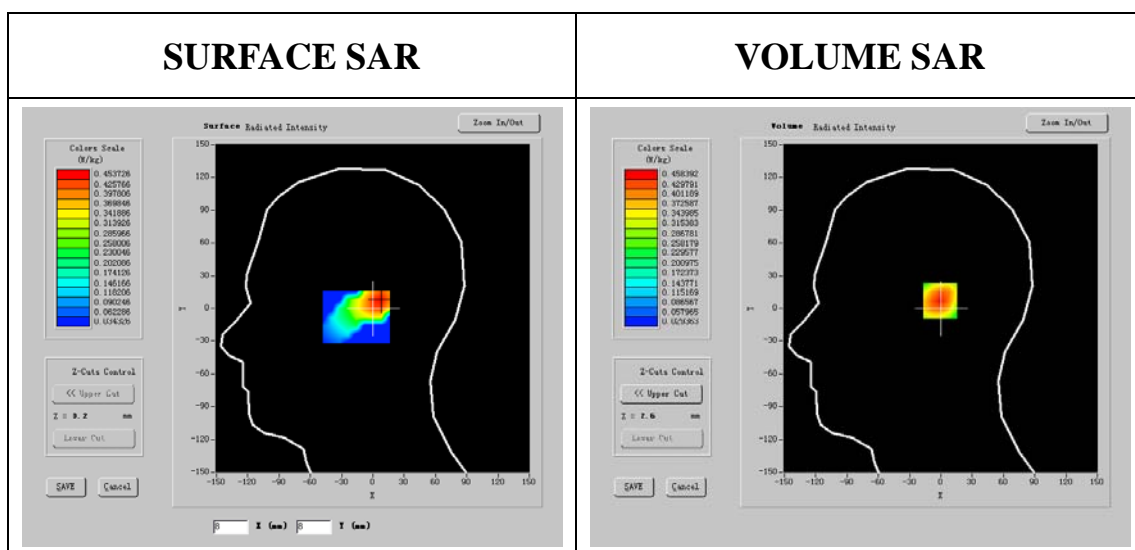
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right hand
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100))
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

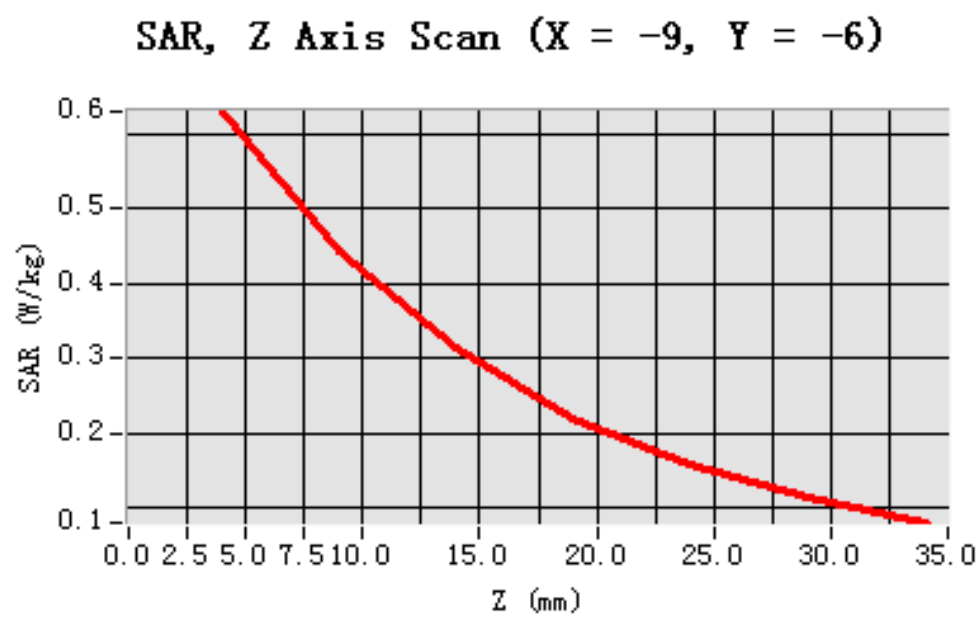
Frequency (MHz)	836.400024
Relative permittivity (real part)	41.466999
Relative permittivity (imaginary part)	19.511101
Conductivity (S/m)	0.906616
Variation (%)	-0.880000



Maximum location: X=-9.00, Y=-6.00

SAR 10g (W/Kg)	0.401693
SAR 1g (W/Kg)	0.615058

Z Axis Scan



MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 19 minutes 47 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

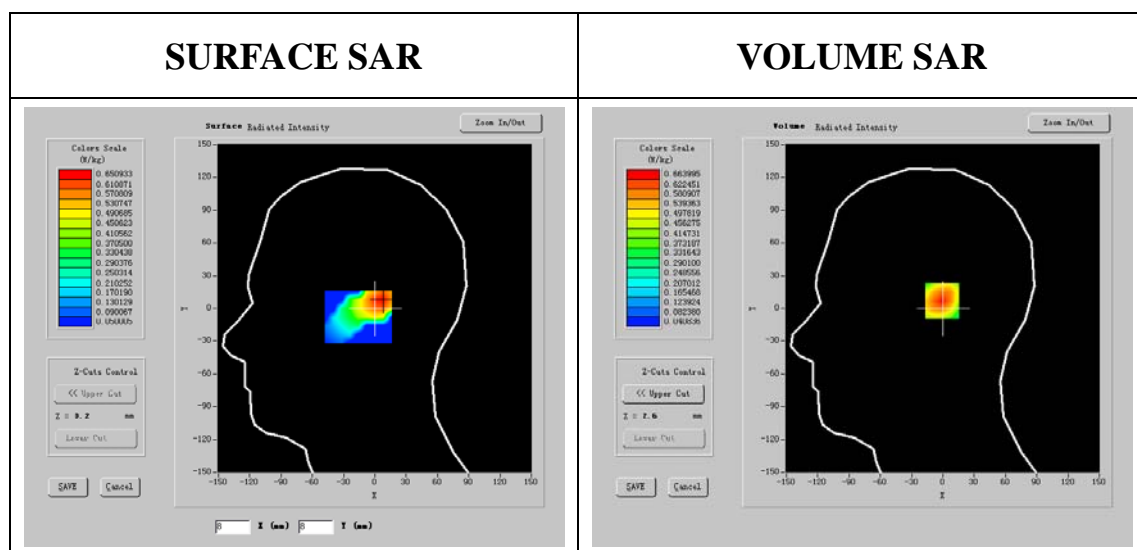
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right hand
Device Position	Tilt
Band	GSM850
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100))
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

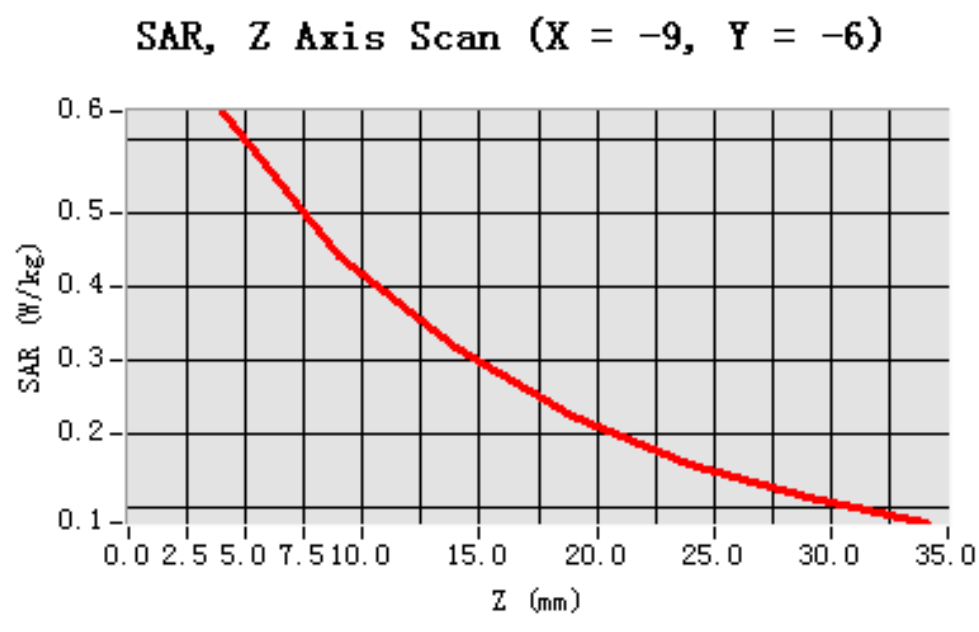
Frequency (MHz)	848.599976
Relative permittivity (real part)	41.262001
Relative permittivity (imaginary part)	19.598200
Conductivity (S/m)	0.923946
Variation (%)	-3.070000



Maximum location: X=-9.00, Y=-6.00

SAR 10g (W/Kg)	0.406575
SAR 1g (W/Kg)	0.623415

Z Axis Scan



MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 20 minutes 2 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

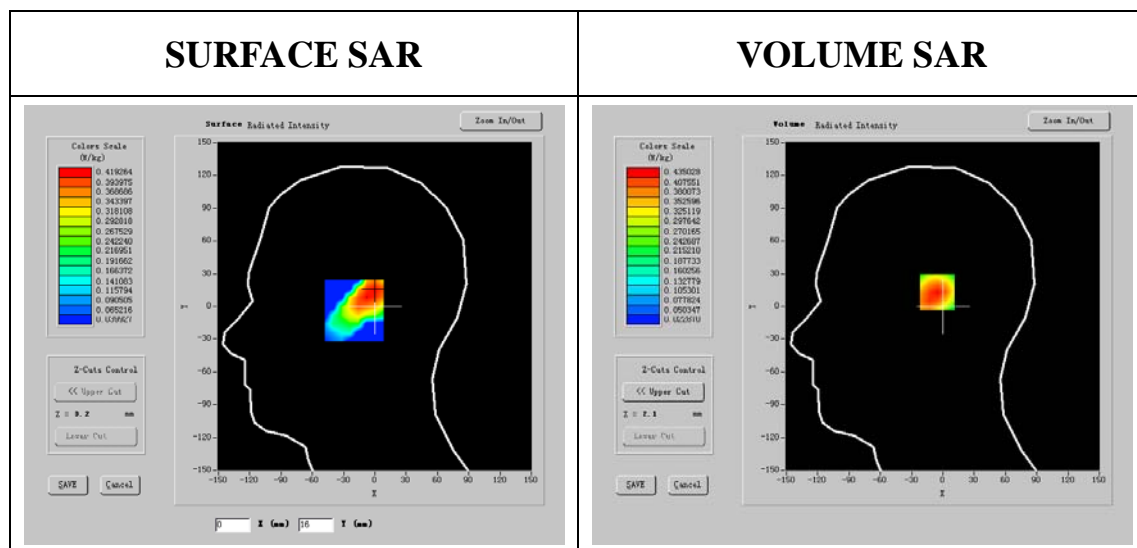
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100))
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

Frequency (MHz)	824.200012
Relative permittivity (real part)	41.466999
Relative permittivity (imaginary part)	19.511101
Conductivity (S/m)	0.893392
Variation (%)	-1.240000

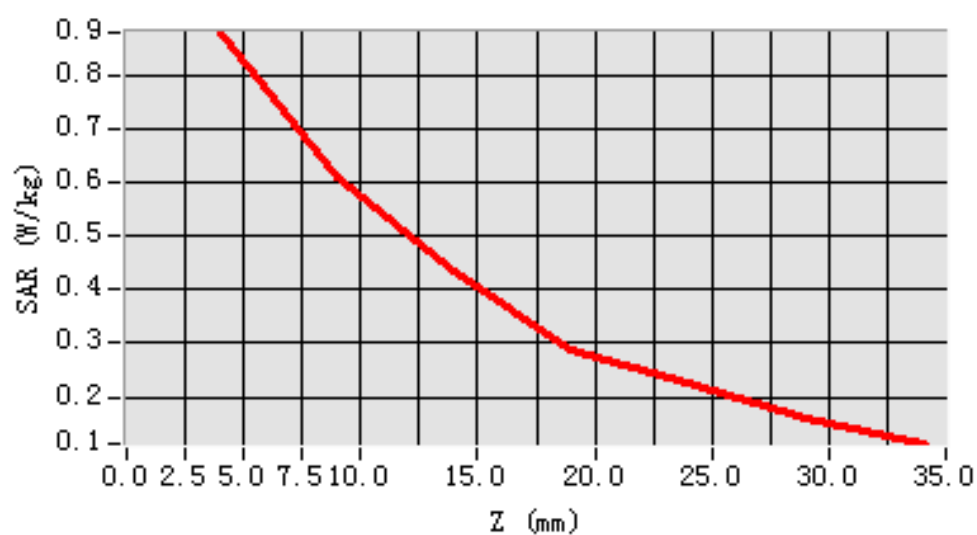


Maximum location: X=-25.00, Y=-11.00

SAR 10g (W/Kg)	0.543154
SAR 1g (W/Kg)	0.840592

Z Axis Scan

SAR, Z Axis Scan (X = -25, Y = -11)



MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 20 minutes 2 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

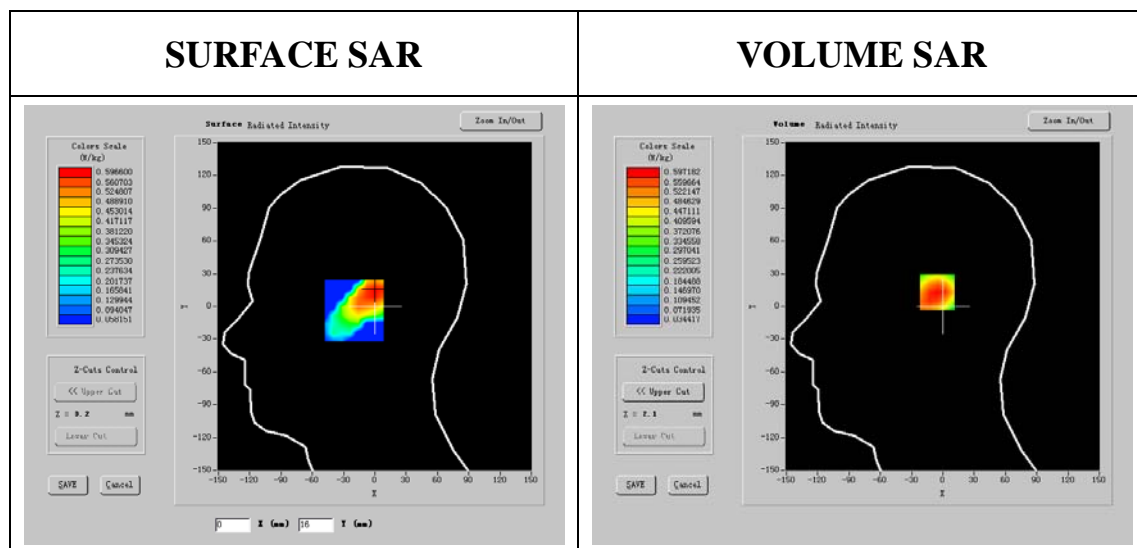
Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100))
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

Frequency (MHz)	836.400024
Relative permittivity (real part)	41.466999
Relative permittivity (imaginary part)	19.511101
Conductivity (S/m)	0.906616
Variation (%)	-1.240000

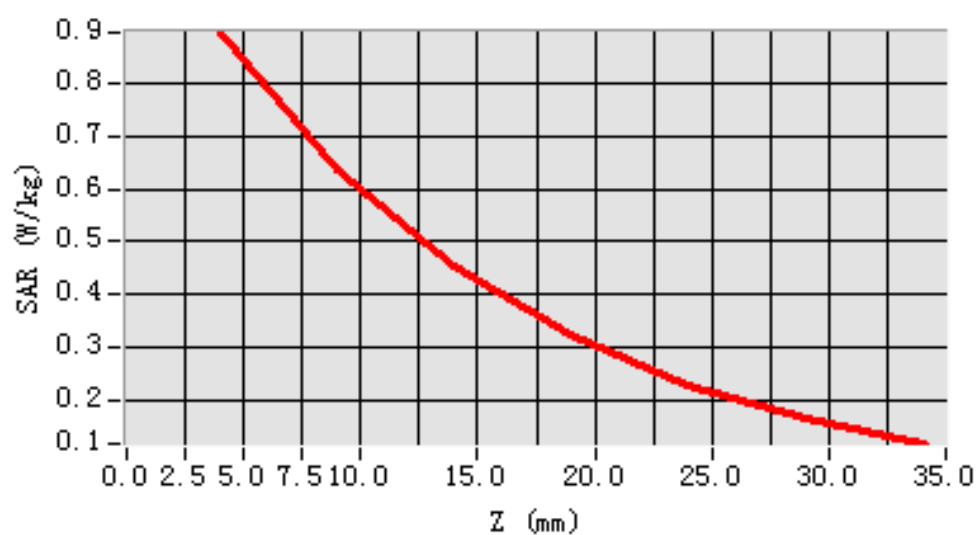


Maximum location: X=-25.00, Y=-11.00

SAR 10g (W/Kg)	0.563744
SAR 1g (W/Kg)	0.860708

Z Axis Scan

SAR, Z Axis Scan (X = -25, Y = -11)



MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 20 minutes 2 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

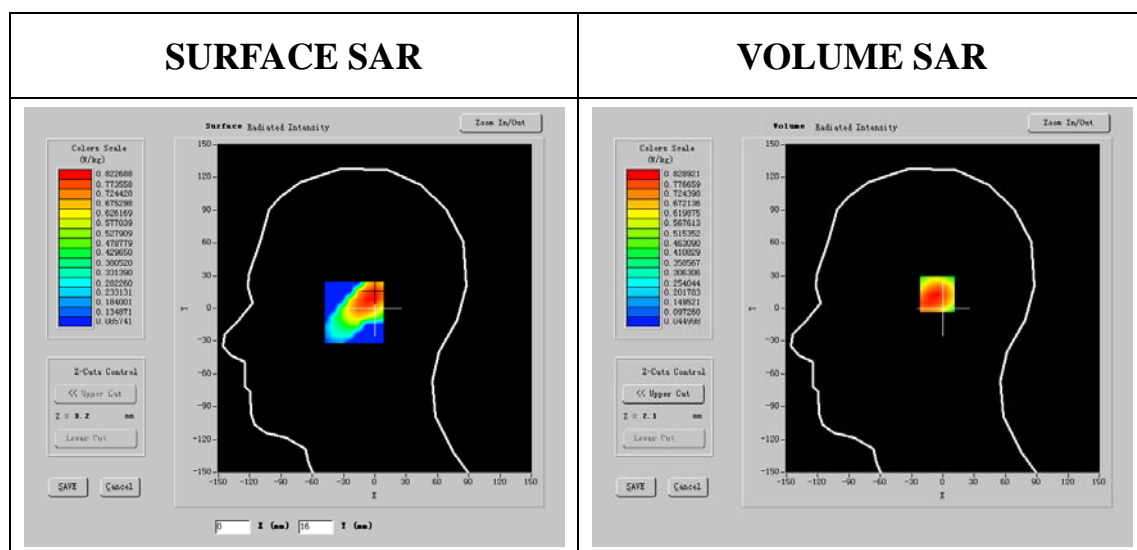
Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100))
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

Frequency (MHz)	848.599976
Relative permittivity (real part)	41.262001
Relative permittivity (imaginary part)	19.598200
Conductivity (S/m)	0.923946
Variation (%)	-1.200000

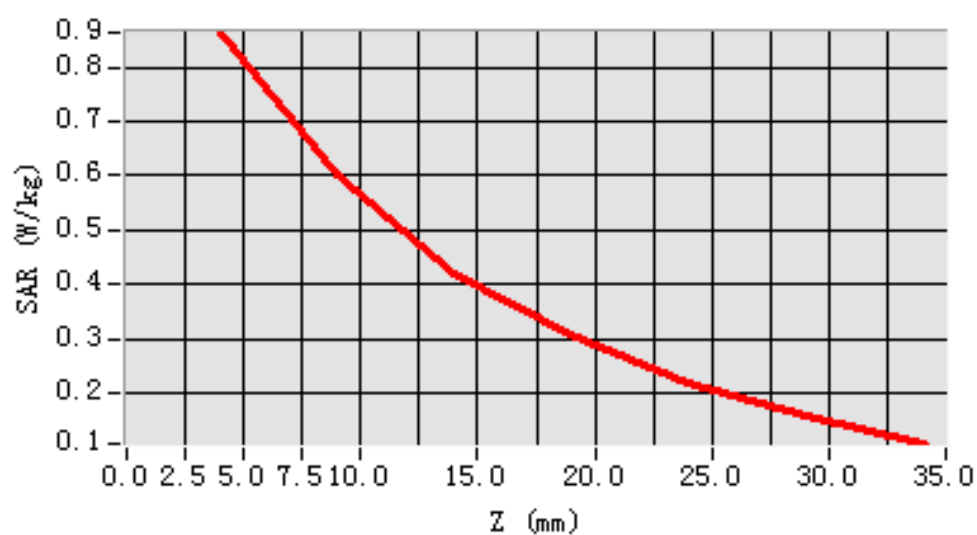


Maximum location: X=-25.00, Y=-11.00

SAR 10g (W/Kg)	0.538823
SAR 1g (W/Kg)	0.824888

Z Axis Scan

SAR, Z Axis Scan (X = -25, Y = -11)



MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 19 minutes 49 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

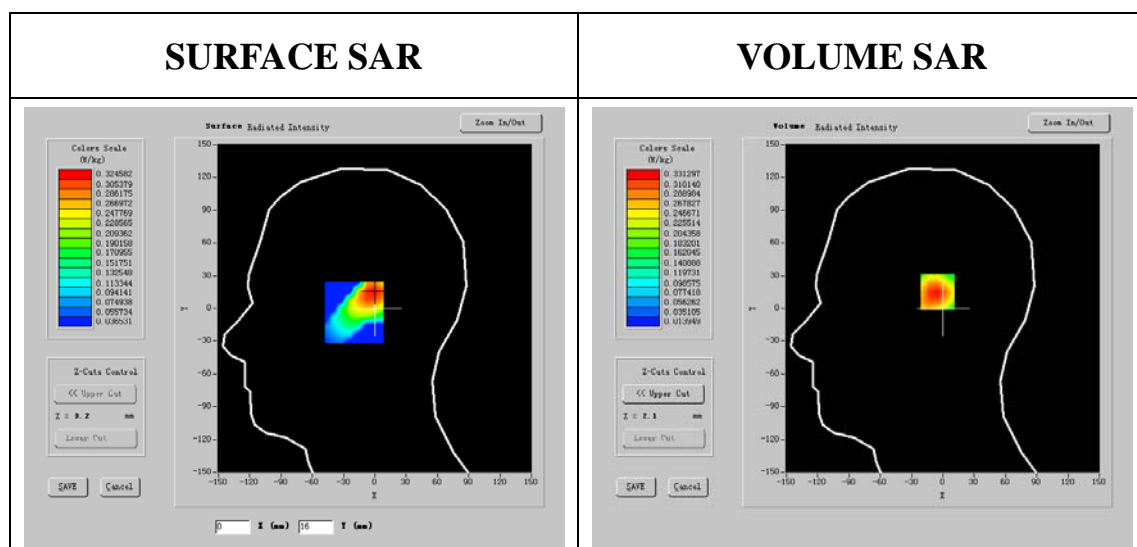
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100))
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

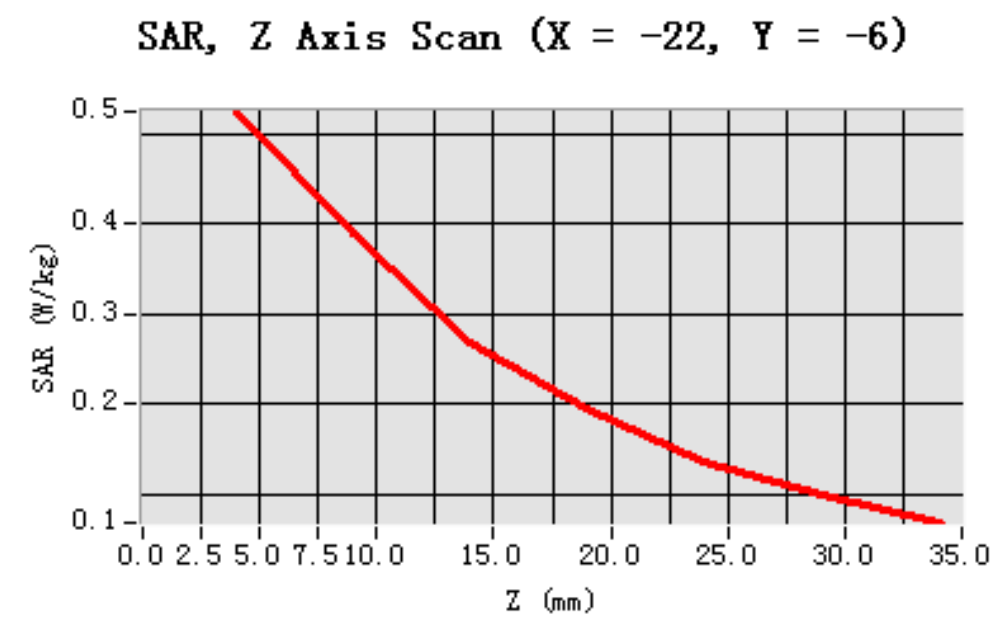
Frequency (MHz)	824.200012
Relative permittivity (real part)	41.466999
Relative permittivity (imaginary part)	19.511101
Conductivity (S/m)	0.893392
Variation (%)	-0.170000



Maximum location: X=-22.00, Y=-6.00

SAR 10g (W/Kg)	0.333809
SAR 1g (W/Kg)	0.500487

Z Axis Scan



MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 19 minutes 49 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

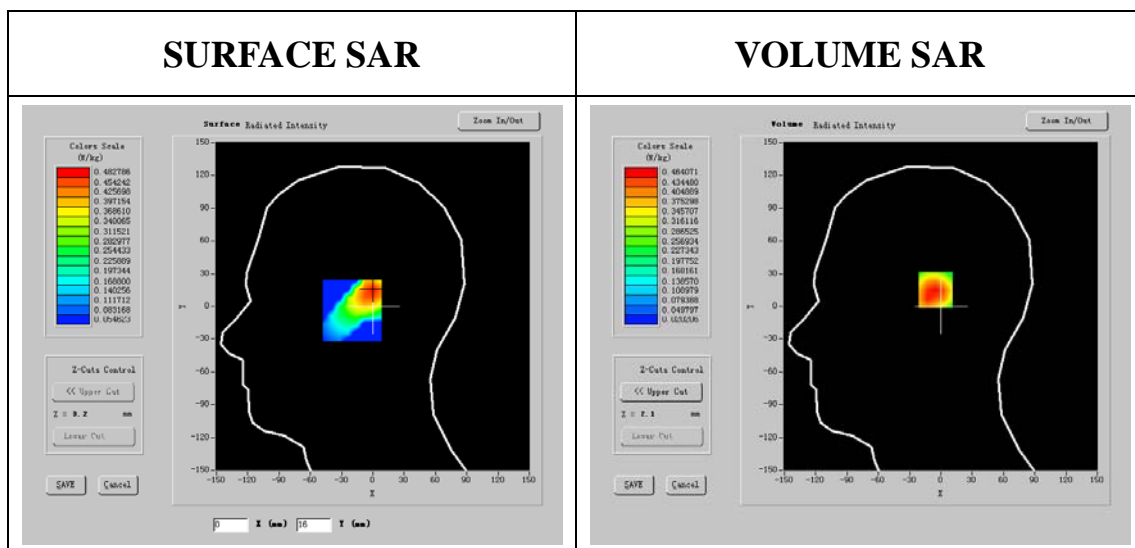
Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100))
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

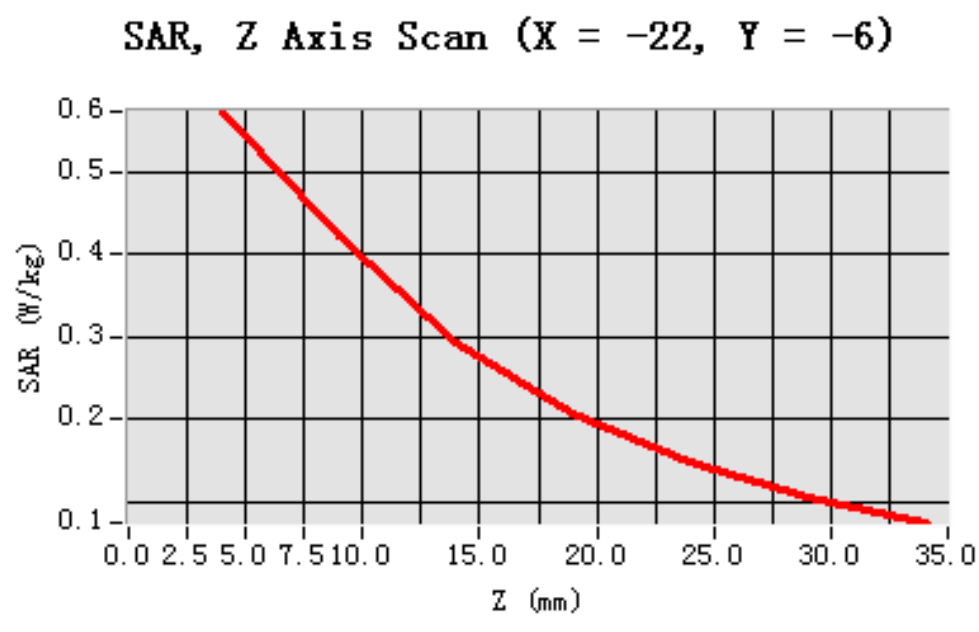
Frequency (MHz)	836.400024
Relative permittivity (real part)	41.466999
Relative permittivity (imaginary part)	19.511101
Conductivity (S/m)	0.906616
Variation (%)	-1.170000



Maximum location: X=-22.00, Y=-6.00

SAR 10g (W/Kg)	0.369794
SAR 1g (W/Kg)	0.562320

Z Axis Scan



MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 19 minutes 49 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

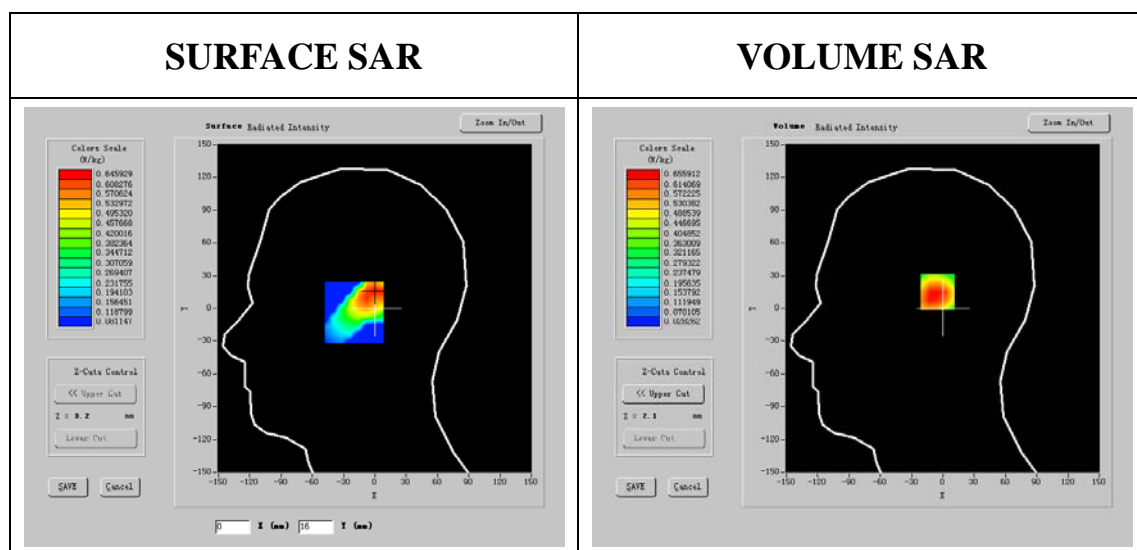
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100))
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

Frequency (MHz)	848.599976
Relative permittivity (real part)	41.262001
Relative permittivity (imaginary part)	19.598200
Conductivity (S/m)	0.923946
Variation (%)	-1.000000

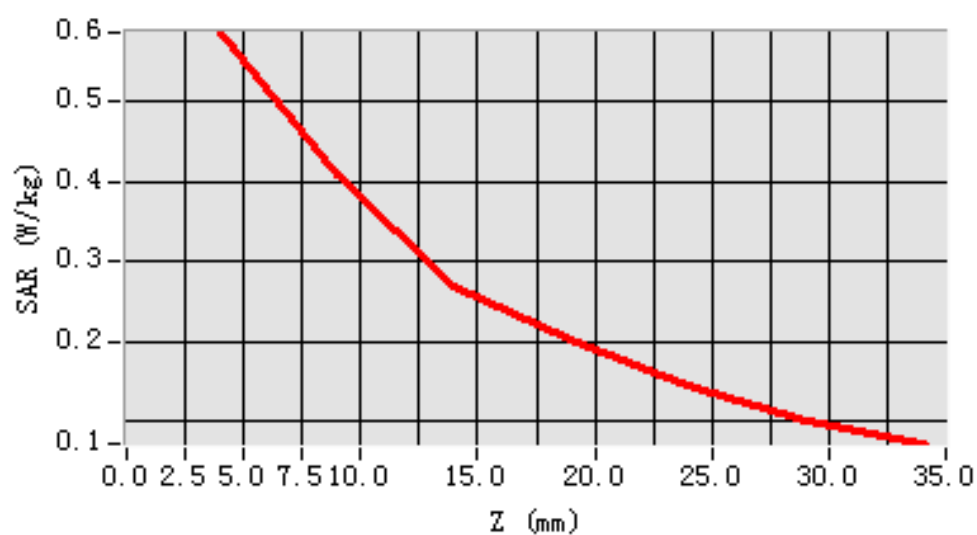


Maximum location: X=-22.00, Y=-6.00

SAR 10g (W/Kg)	0.362758
SAR 1g (W/Kg)	0.560554

Z Axis Scan

SAR, Z Axis Scan (X = -22, Y = -6)



MEASUREMENT 13

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

A. Experimental conditions.

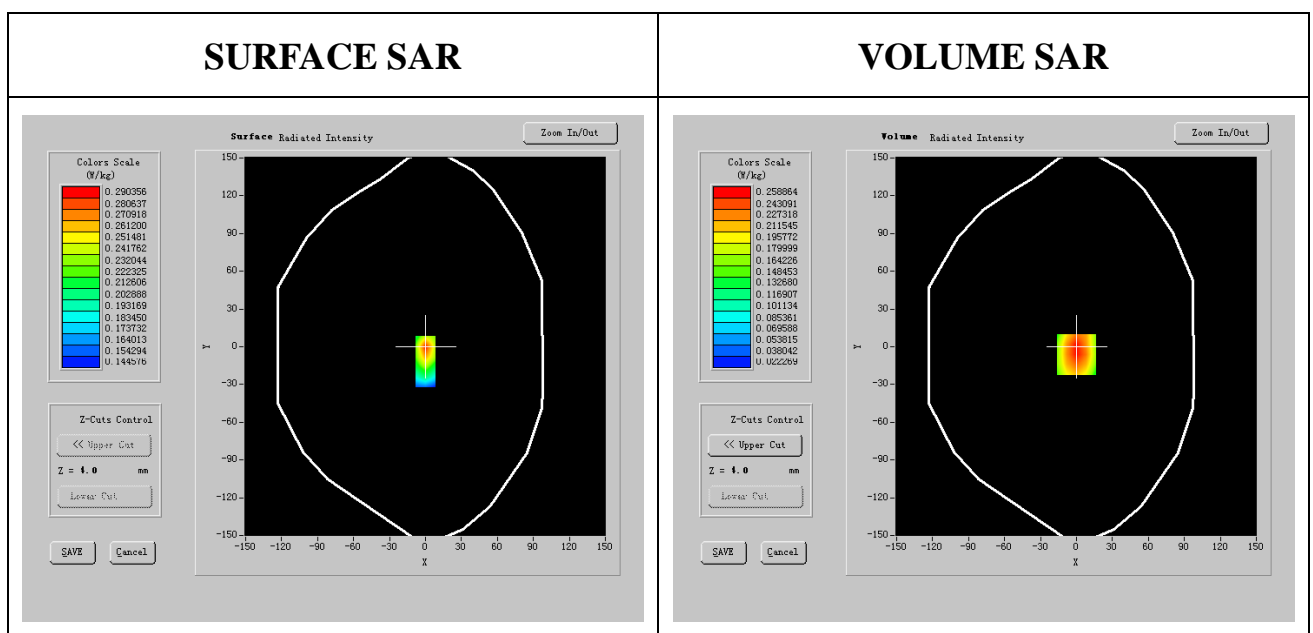
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V 3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1205_EP_45)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

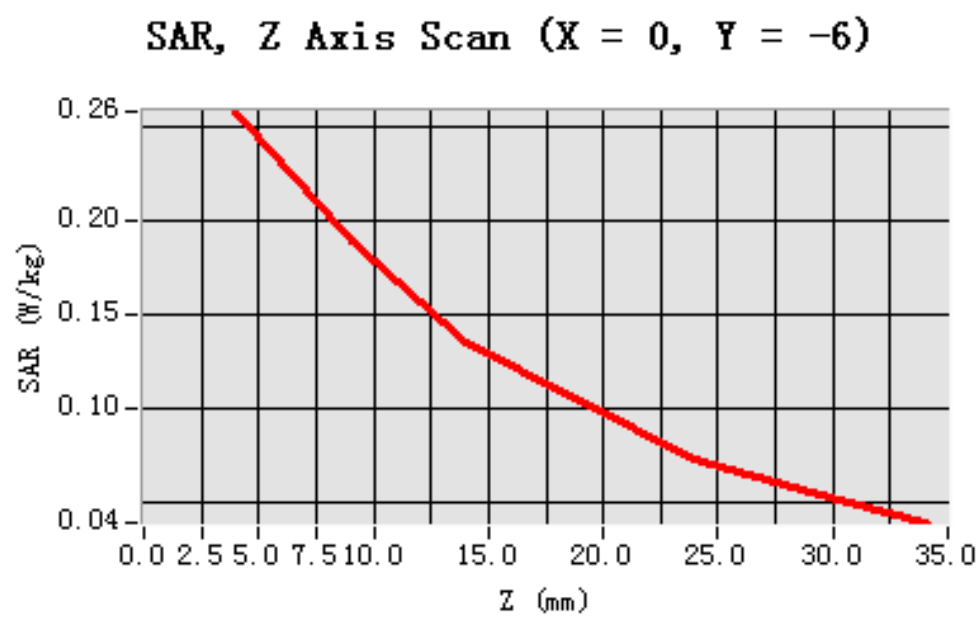
Frequency (MHz)	824.200012
Relative permittivity (real part)	57.584000
Relative permittivity (imaginary part)	21.654150
Conductivity (S/m)	0.991519
Variation (%)	-2.120000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.168544
SAR 1g (W/Kg)	0.248568

Z Axis Scan



MEASUREMENT 14

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

A. Experimental conditions.

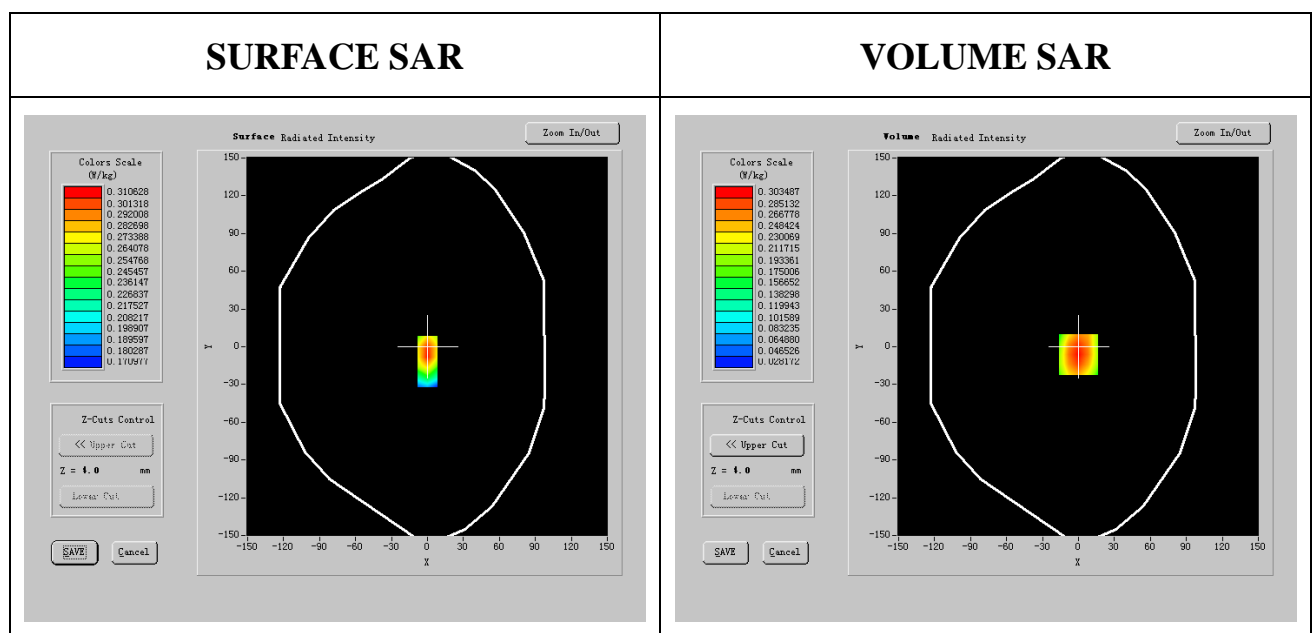
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V 3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

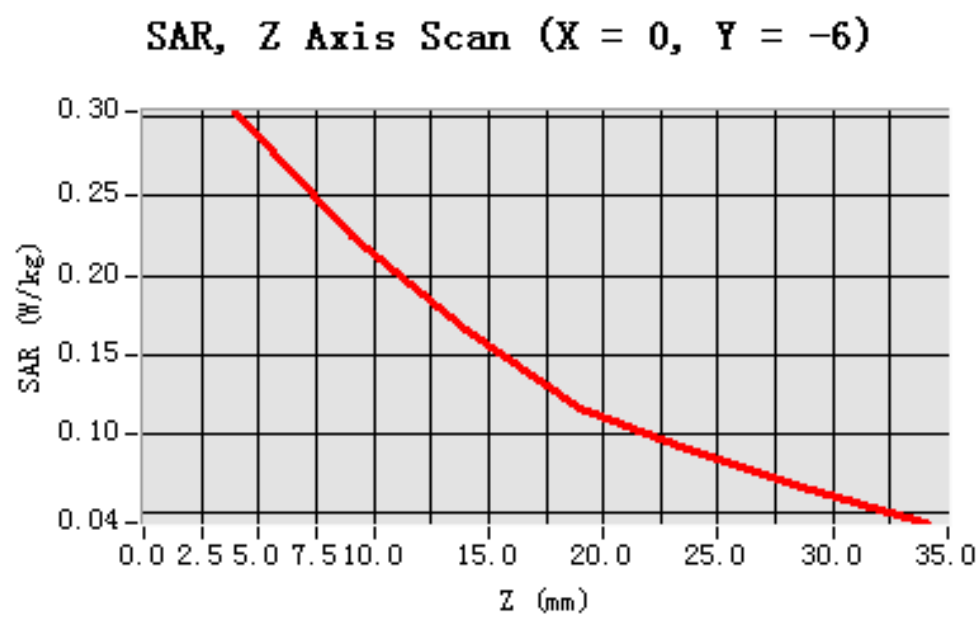
Frequency (MHz)	836.400024
Relative permittivity (real part)	57.501999
Relative permittivity (imaginary part)	21.866249
Conductivity (S/m)	1.016052
Variation (%)	-2.120000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.199721
SAR 1g (W/Kg)	0.288165

Z Axis Scan



MEASUREMENT 15

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

A. Experimental conditions.

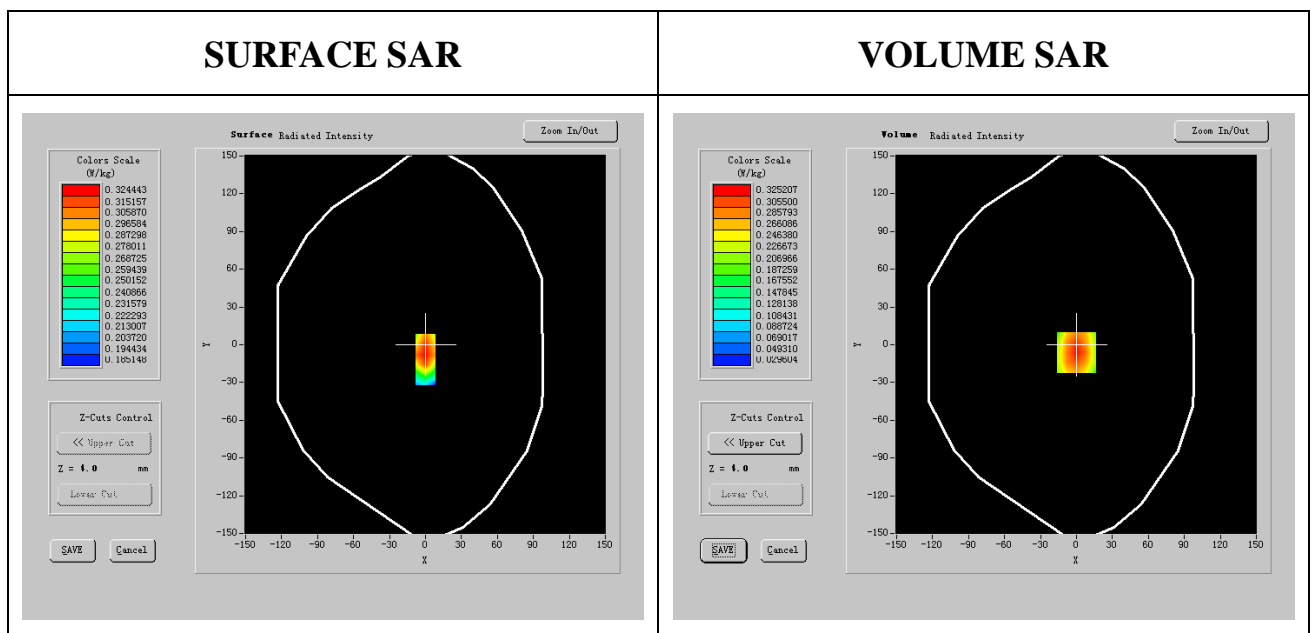
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V 3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

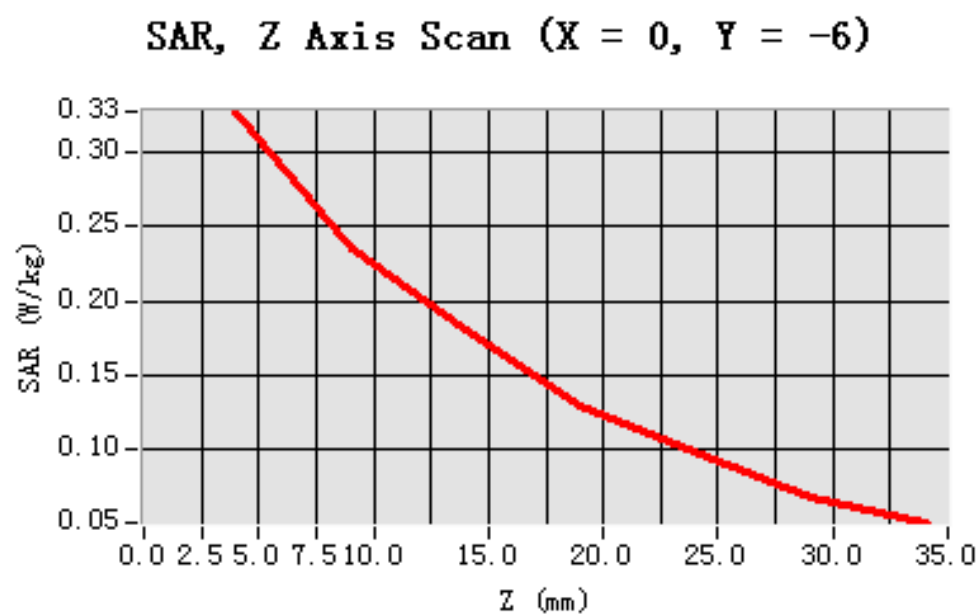
Frequency (MHz)	848.599976
Relative permittivity (real part)	57.576000
Relative permittivity (imaginary part)	21.726601
Conductivity (S/m)	1.024288
Variation (%)	-1.120000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.215583
SAR 1g (W/Kg)	0.313131

Z Axis Scan



GSM 1900

I. RESULTS

<u>TYPE</u>	<u>BAND</u>	<u>PARAMETERS</u>
<u>Noise</u>	--	--
<u>Validation</u>	--	--
<u>Phone</u>	<u>GSM1900</u>	<u>Measurement 1:</u> Right Head with Cheek device position on Low Channel in GMSK mode <u>Measurement 2:</u> Right Head with Cheek device position on Middle Channel in GMSK mode <u>Measurement 3:</u> Right Head with Cheek device position on High Channel in GMSK mode <u>Measurement 4:</u> Right Head with Tilt device position on Low Channel in GMSK mode <u>Measurement 5:</u> Right Head with Tilt device position on Middle Channel in GMSK mode <u>Measurement 6:</u> Right Head with Tilt device position on High Channel in GMSK mode <u>Measurement 7:</u> Left Head with Cheek device position on Low Channel in GMSK mode <u>Measurement 8:</u> Left Head with Cheek device position on Middle Channel in GMSK mode <u>Measurement 9:</u> Left Head with Cheek device position on High Channel in GMSK mode <u>Measurement 10:</u> Left Head with Tilt device position on Low Channel in GMSK mode <u>Measurement 11:</u> Left Head with Tilt device position on Middle Channel in GMSK mode <u>Measurement 12:</u> Left Head with Tilt device position on High Channel in GMSK mode <u>Measurement 13:</u> Validation Plane with Body device position on Low Channel in GMSK mode <u>Measurement 14:</u> Validation Plane with Body device position on Middle Channel in GMSK mode <u>Measurement 15:</u> Validation Plane with Body device position on High Channel in GMSK mode

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MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

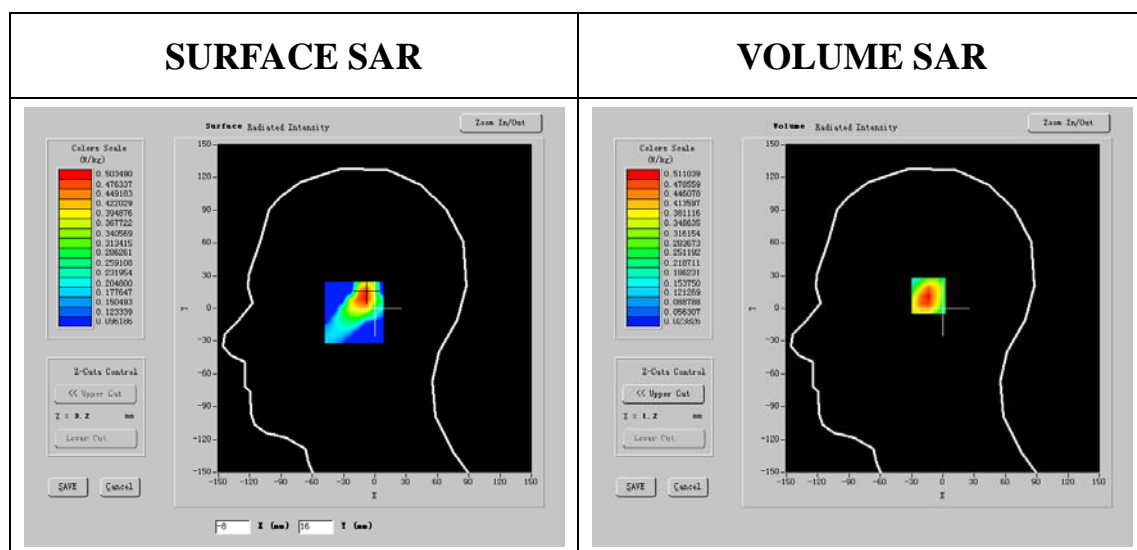
Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN 11-09 EP100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

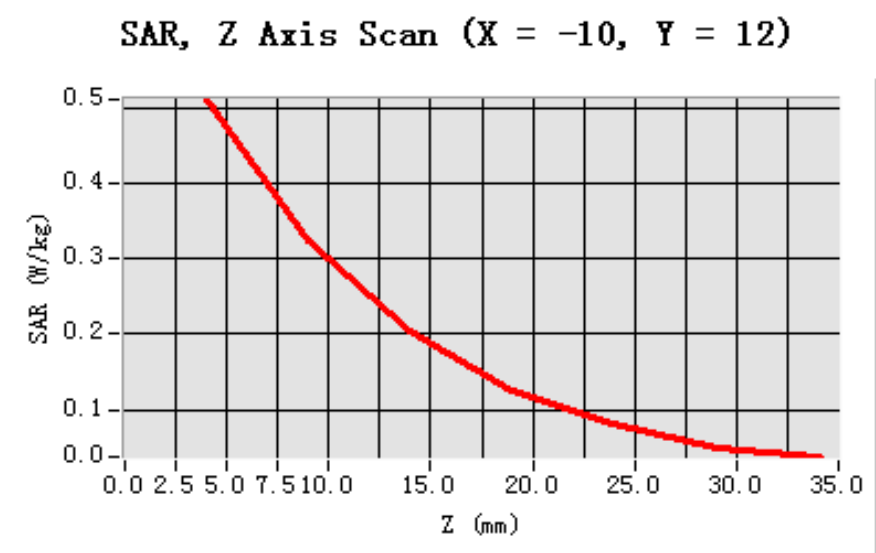
Frequency (MHz)	1850.400024
Relative permittivity (real part)	40.313000
Relative permittivity (imaginary part)	13.584900
Conductivity (S/m)	1.396528
Variation (%)	-1.220000



Maximum location: X=-10.00, Y=12.00

SAR 10g (W/Kg)	0.286192
SAR 1g (W/Kg)	0.481237

Z Axis Scan



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

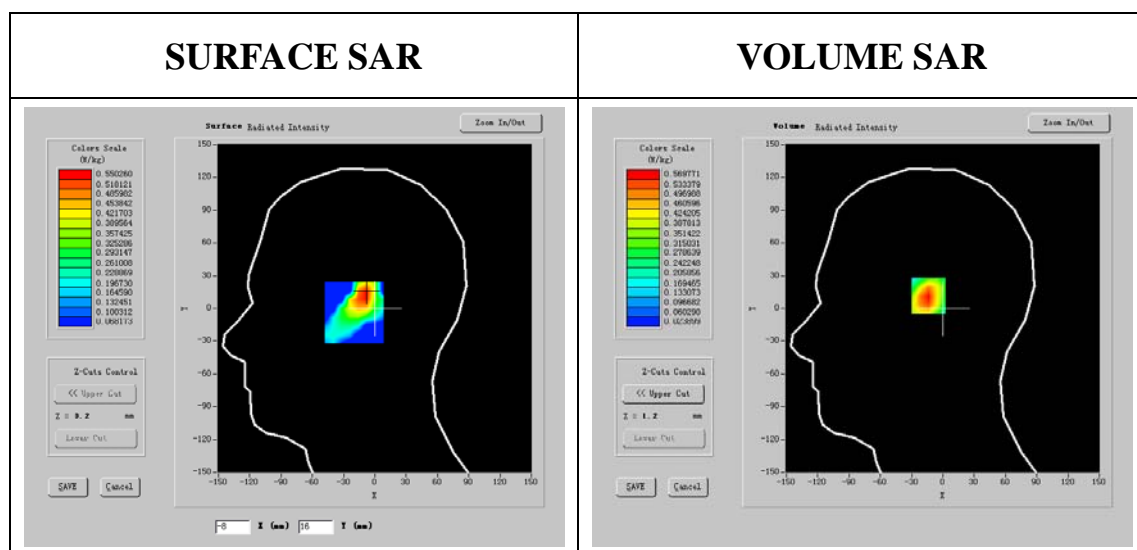
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN 11-09 EP100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

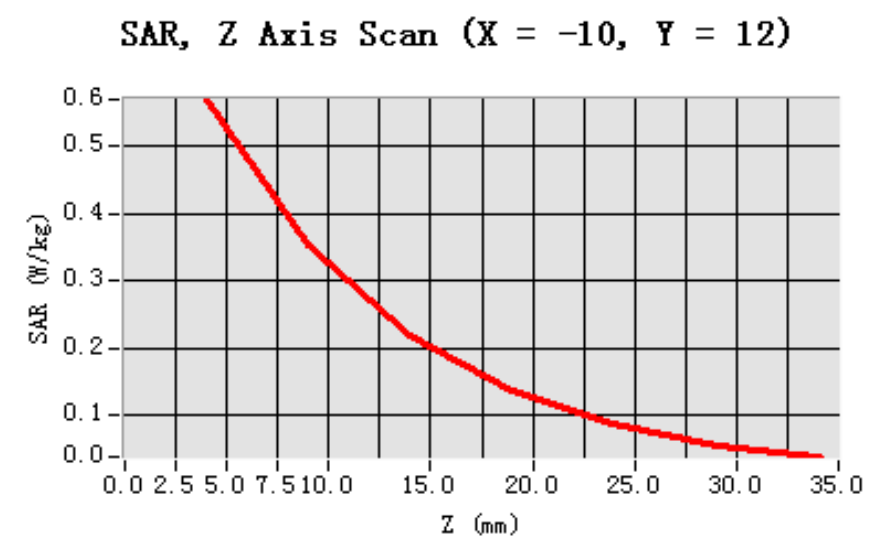
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.193001
Relative permittivity (imaginary part)	13.813800
Conductivity (S/m)	1.442775
Variation (%)	-0.210000



Maximum location: X=-10.00, Y=12.00

SAR 10g (W/Kg)	0.316204
SAR 1g (W/Kg)	0.536035

Z Axis Scan



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

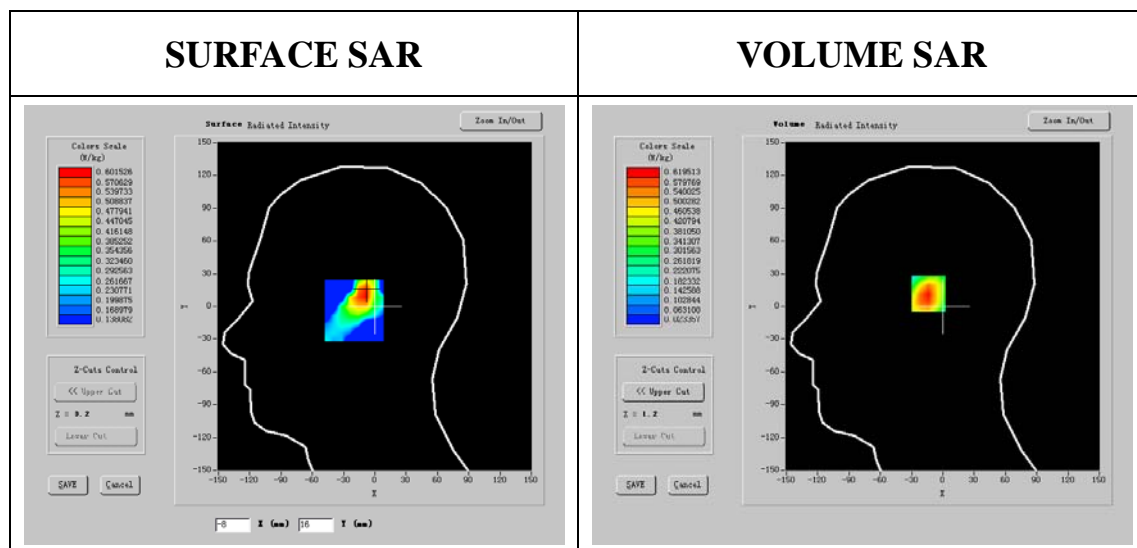
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN 11-09 EP100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

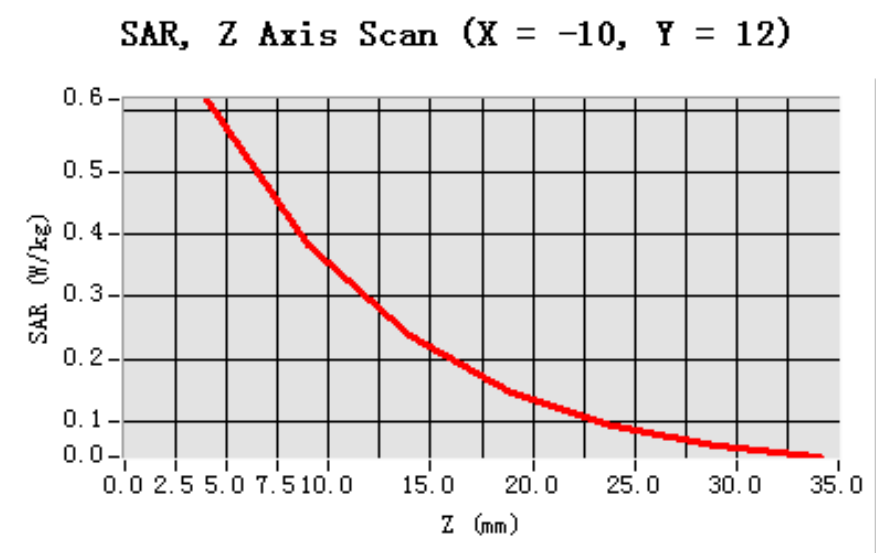
Frequency (MHz)	1909.599976
Relative permittivity (real part)	40.285999
Relative permittivity (imaginary part)	13.669900
Conductivity (S/m)	1.450225
Variation (%)	-0.030000



Maximum location: X=-10.00, Y=12.00

SAR 10g (W/Kg)	0.350159
SAR 1g (W/Kg)	0.582260

Z Axis Scan



MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

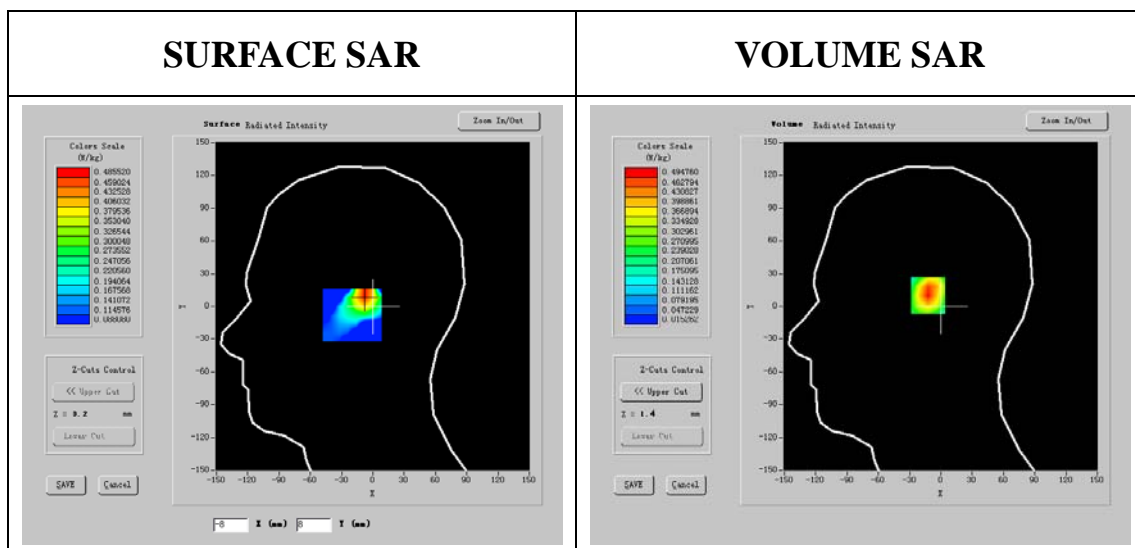
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right hand
Device Position	Tilt
Band	GSM1900
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN 11-09 EP100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

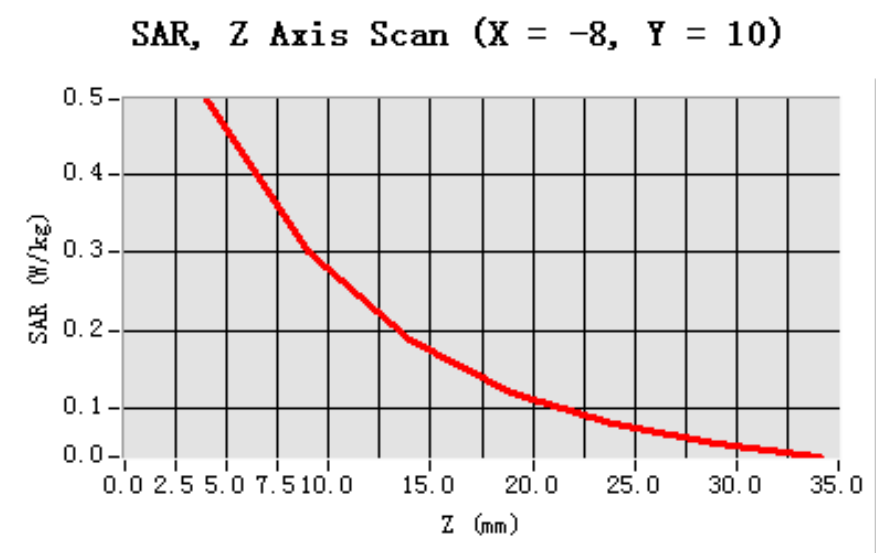
Frequency (MHz)	1850.400024
Relative permittivity (real part)	40.313000
Relative permittivity (imaginary part)	13.584900
Conductivity (S/m)	1.396528
Variation (%)	-1.400000



Maximum location: X=-8.00, Y=10.00

SAR 10g (W/Kg)	0.267510
SAR 1g (W/Kg)	0.460068

Z Axis Scan



MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

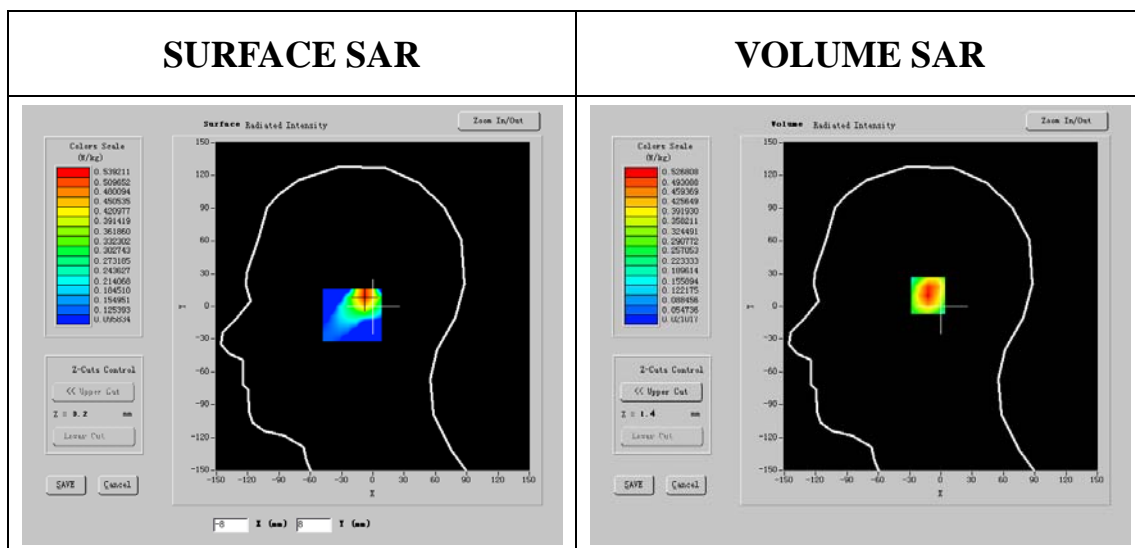
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right hand
Device Position	Tilt
Band	GSM1900
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN 11-09 EP100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

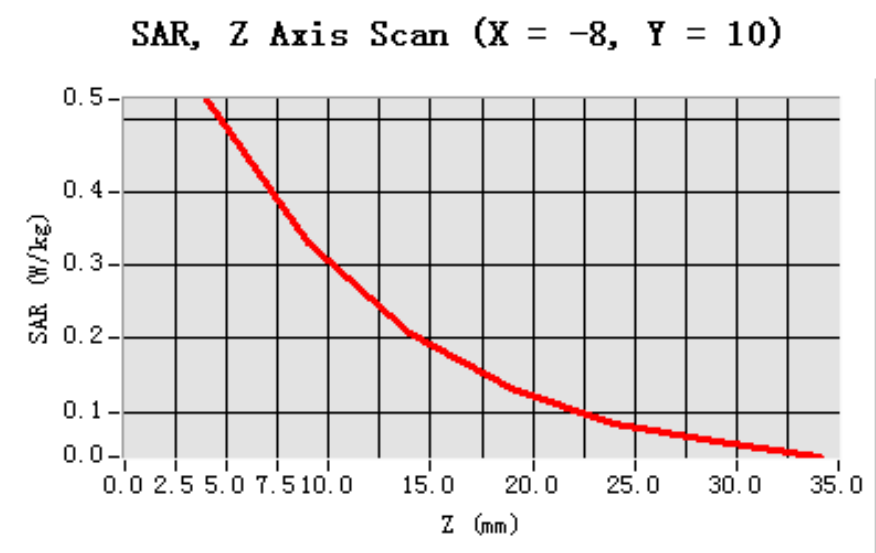
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.193001
Relative permittivity (imaginary part)	13.813800
Conductivity (S/m)	1.442775
Variation (%)	-0.420000



Maximum location: X=-8.00, Y=10.00

SAR 10g (W/Kg)	0.292236
SAR 1g (W/Kg)	0.499022

Z Axis Scan



MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

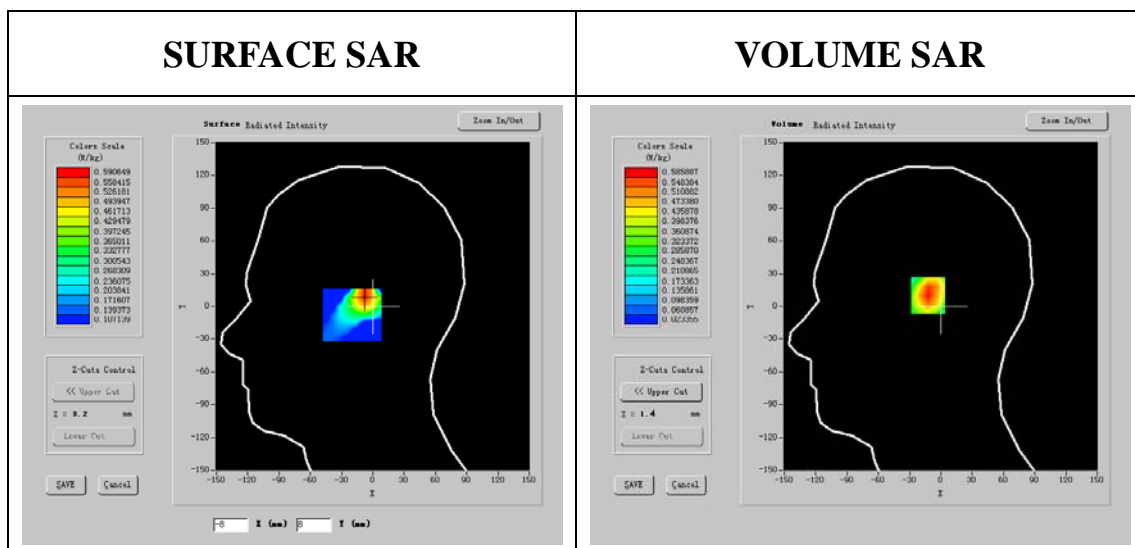
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right hand
Device Position	Tilt
Band	GSM1900
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN 11-09 EP100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

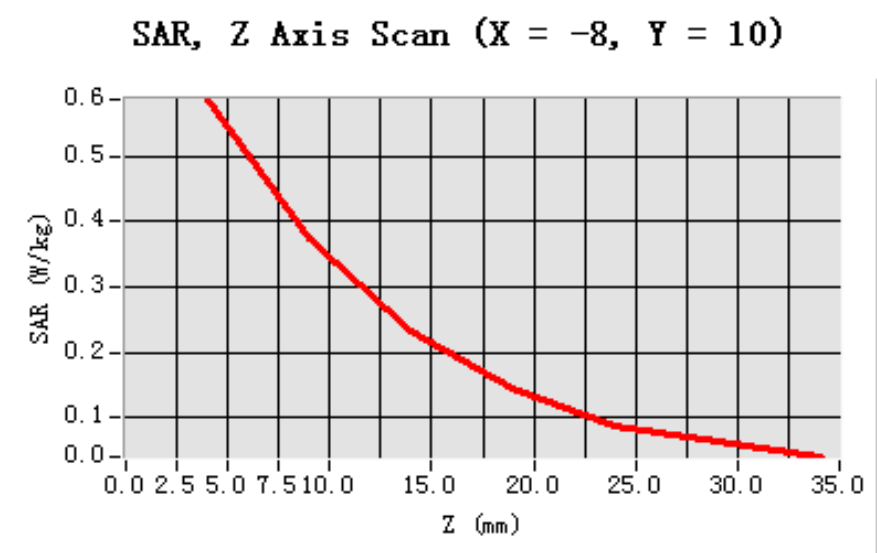
Frequency (MHz)	1909.599976
Relative permittivity (real part)	40.285999
Relative permittivity (imaginary part)	13.669900
Conductivity (S/m)	1.450225
Variation (%)	-1.500000



Maximum location: X=-8.00, Y=10.00

SAR 10g (W/Kg)	0.328155
SAR 1g (W/Kg)	0.546050

Z Axis Scan



MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

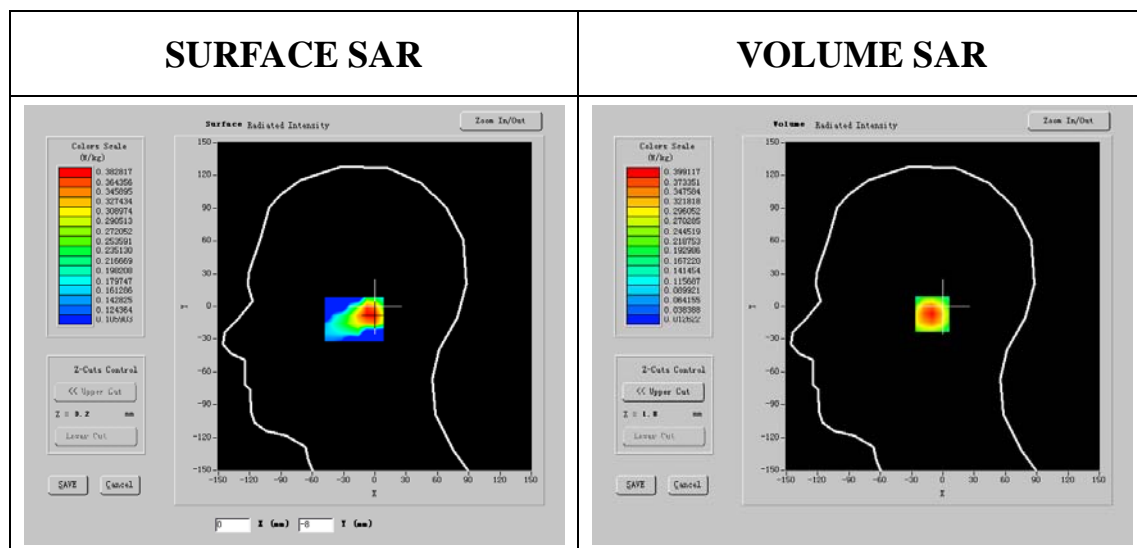
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN 11-09 EP100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

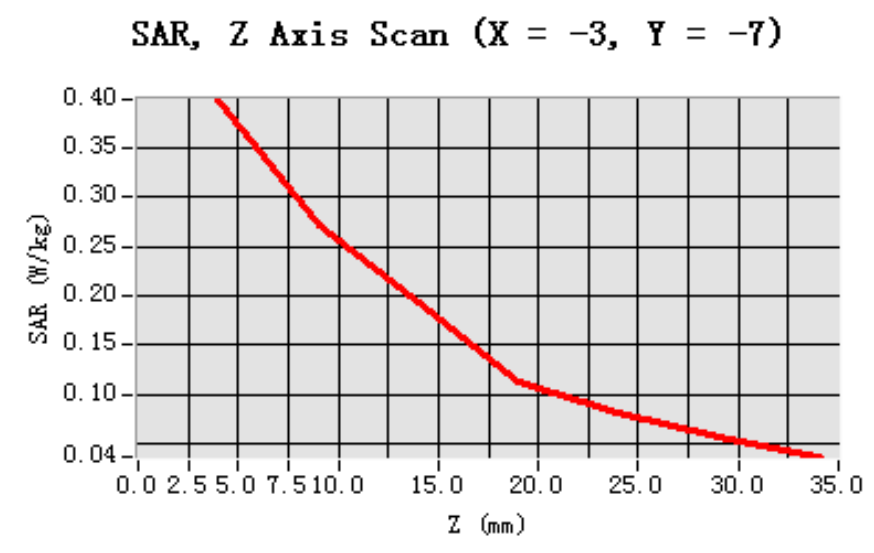
Frequency (MHz)	1850.400024
Relative permittivity (real part)	40.313000
Relative permittivity (imaginary part)	13.584900
Conductivity (S/m)	1.396528
Variation (%)	0.400000



Maximum location: X=-3.00, Y=-7.00

SAR 10g (W/Kg)	0.233291
SAR 1g (W/Kg)	0.371090

Z Axis Scan



MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

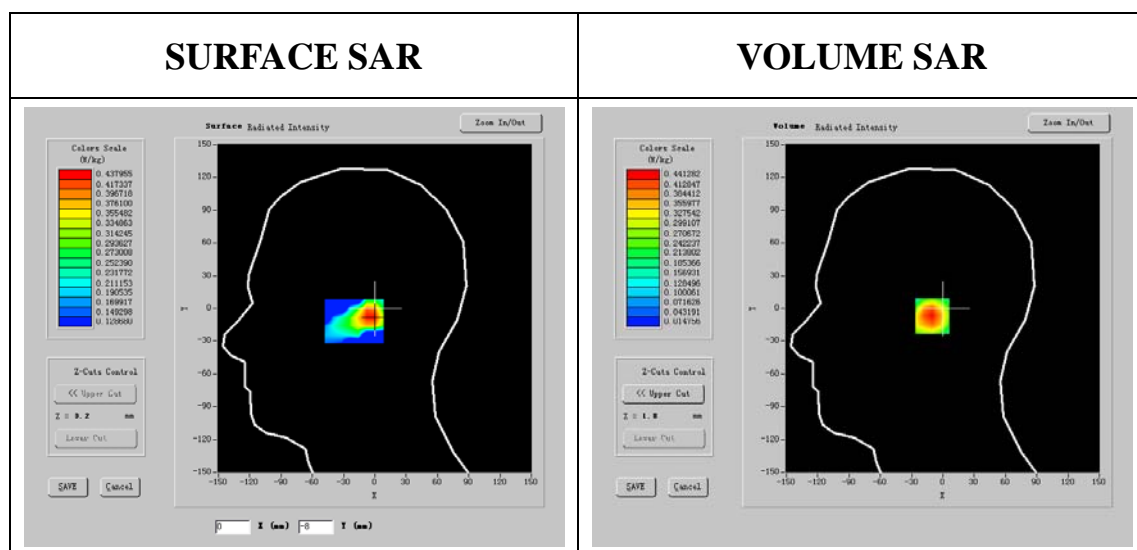
Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN 11-09 EP100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

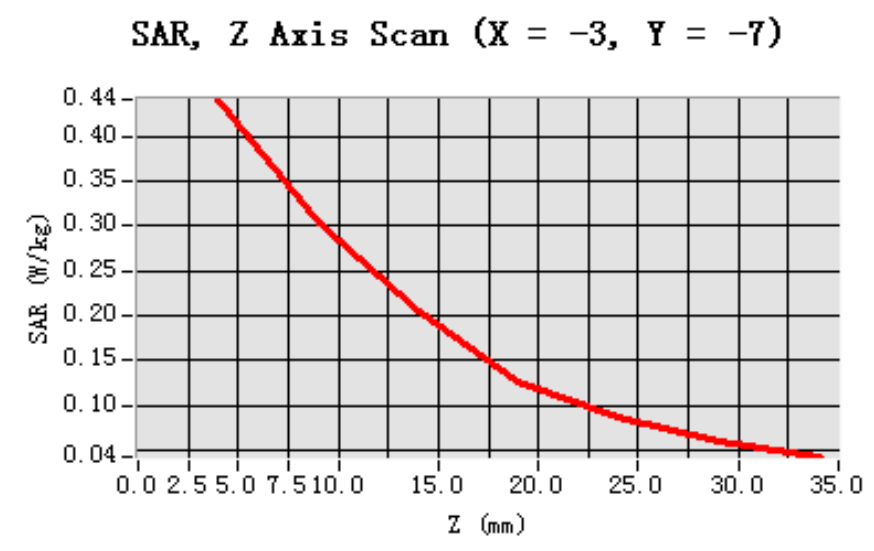
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.193001
Relative permittivity (imaginary part)	13.813800
Conductivity (S/m)	1.442775
Variation (%)	1.300000



Maximum location: X=-3.00, Y=-7.00

SAR 10g (W/Kg)	0.254947
SAR 1g (W/Kg)	0.412073

Z Axis Scan



MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

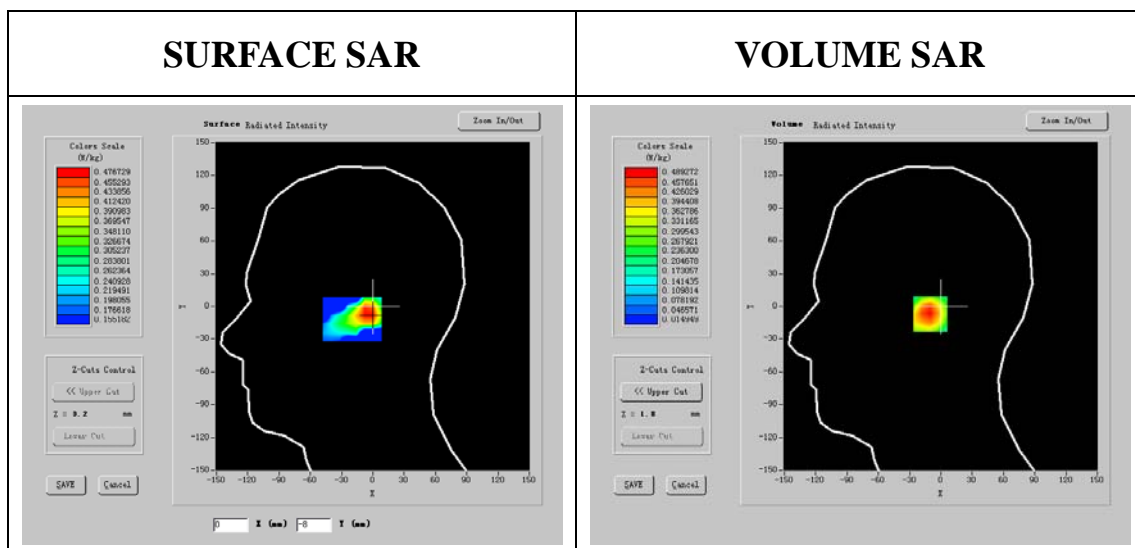
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN 11-09 EP100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

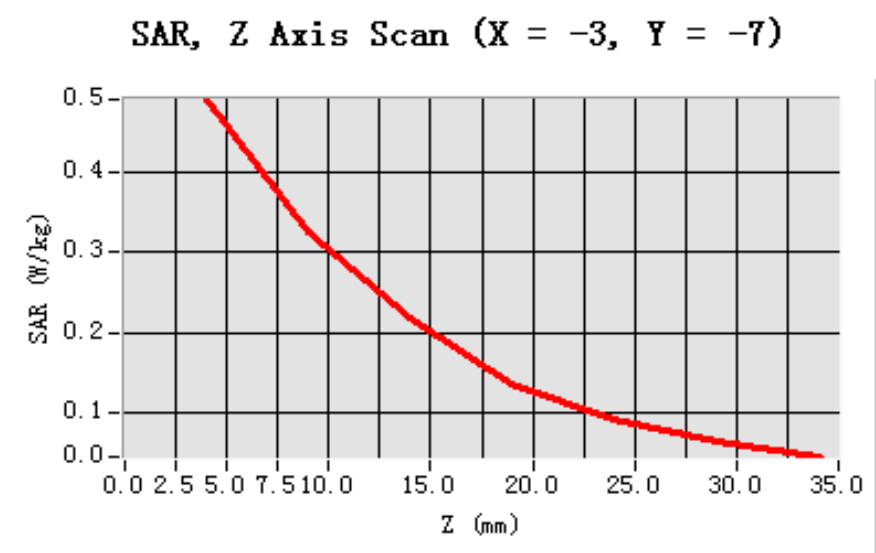
Frequency (MHz)	1909.599976
Relative permittivity (real part)	40.285999
Relative permittivity (imaginary part)	13.669900
Conductivity (S/m)	1.450225
Variation (%)	0.400000



Maximum location: X=-3.00, Y=-7.00

SAR 10g (W/Kg)	0.281529
SAR 1g (W/Kg)	0.459331

Z Axis Scan



MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

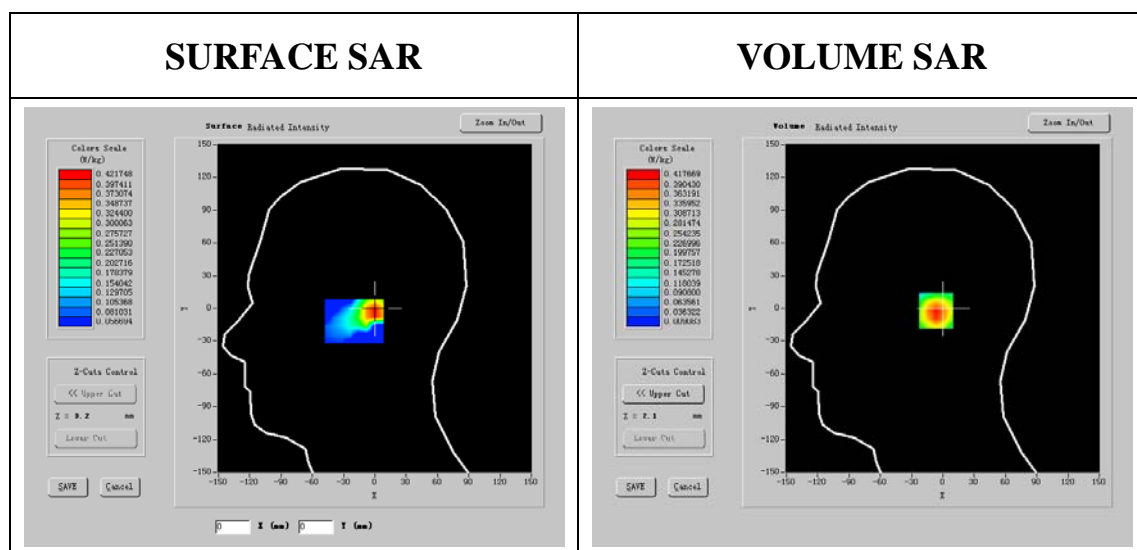
Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM1900
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN 11-09 EP100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

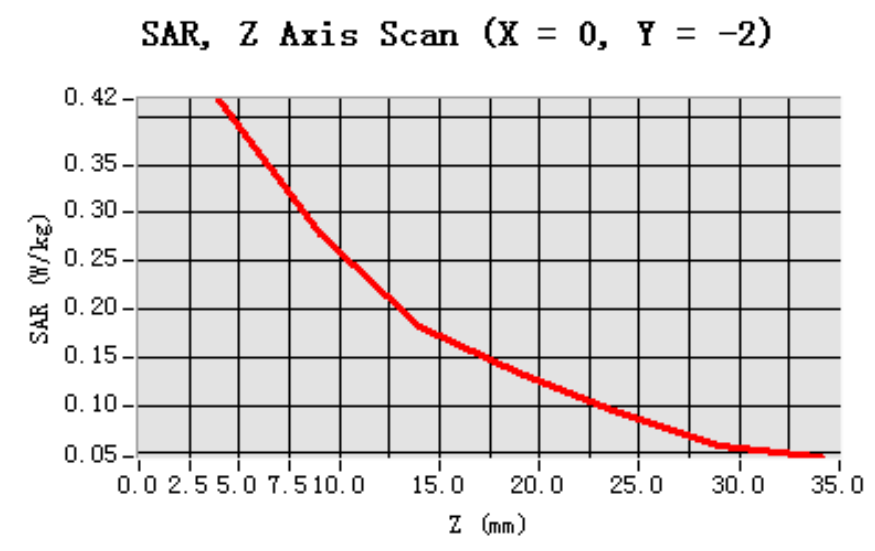
Frequency (MHz)	1850.400024
Relative permittivity (real part)	40.313000
Relative permittivity (imaginary part)	13.584900
Conductivity (S/m)	1.396528
Variation (%)	-0.700000



Maximum location: X=0.00, Y=-2.00

SAR 10g (W/Kg)	0.243128
SAR 1g (W/Kg)	0.396859

Z Axis Scan



MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

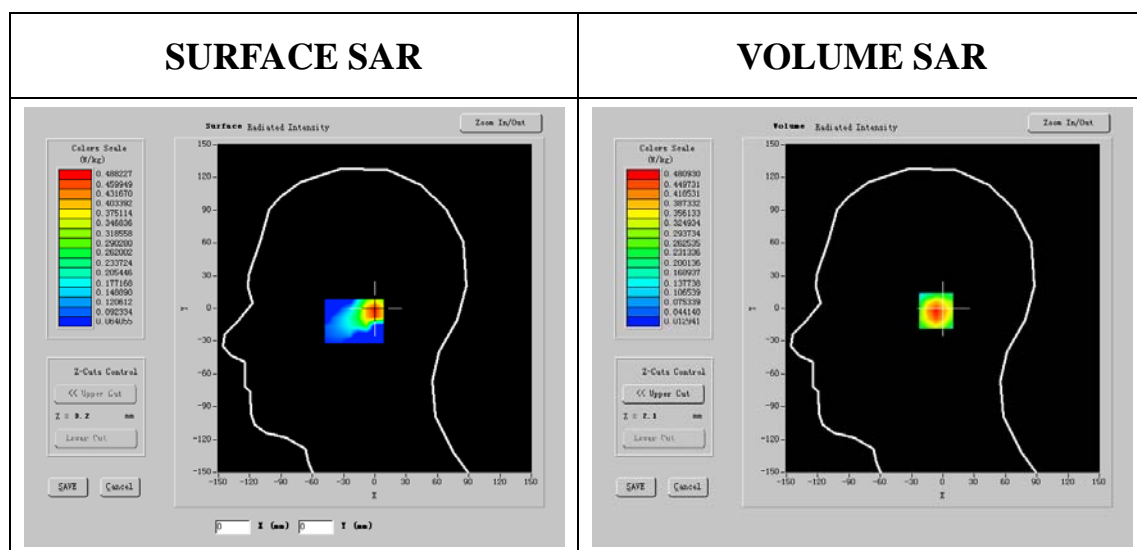
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM1900
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN 11-09 EP100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

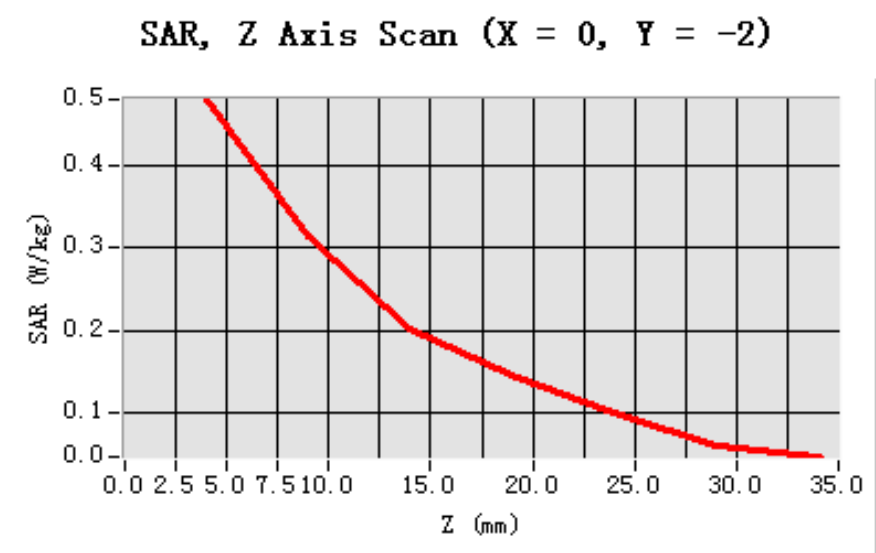
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.193001
Relative permittivity (imaginary part)	13.813800
Conductivity (S/m)	1.442775
Variation (%)	-1.100000



Maximum location: X=0.00, Y=-2.00

SAR 10g (W/Kg)	0.271592
SAR 1g (W/Kg)	0.449085

Z Axis Scan



MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

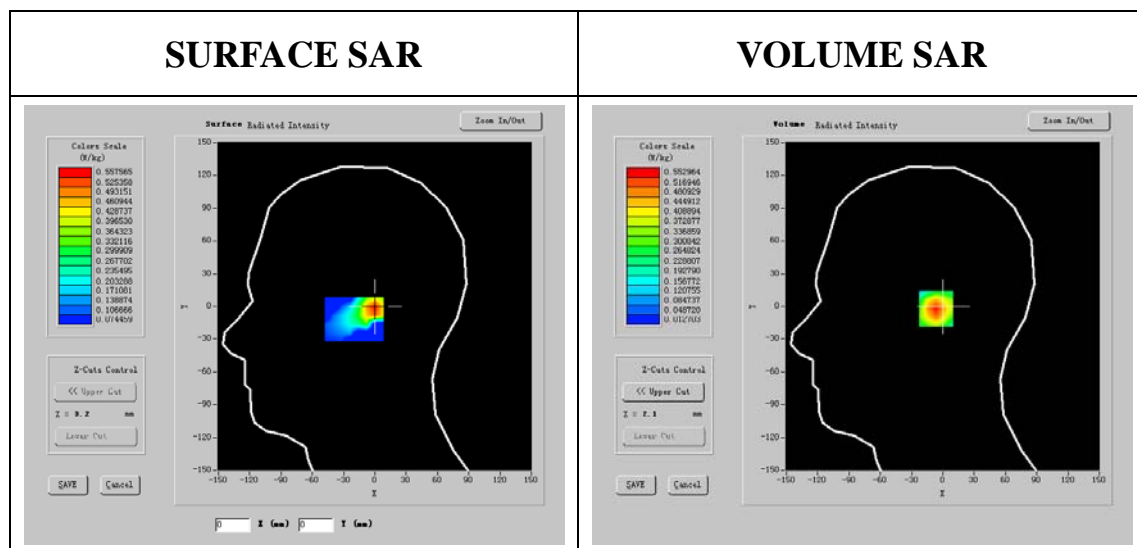
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM1900
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN 11-09 EP100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

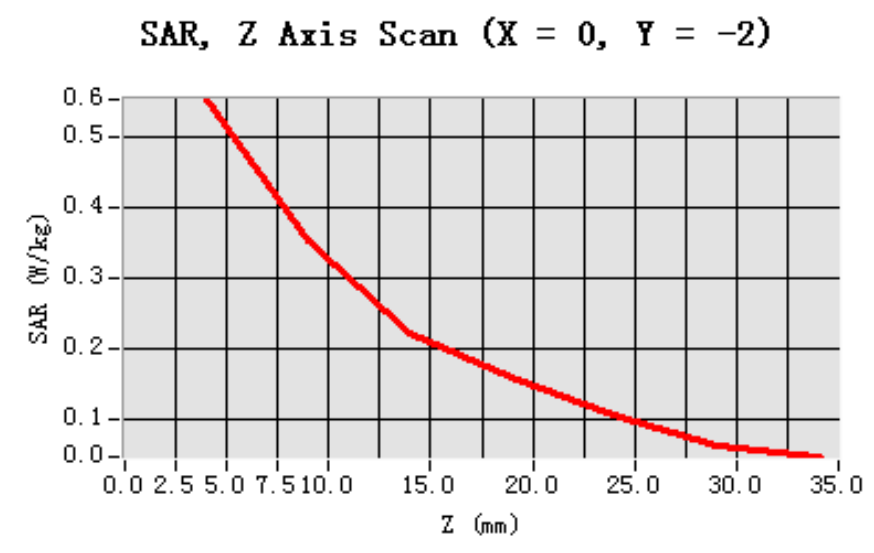
Frequency (MHz)	1909.599976
Relative permittivity (real part)	40.285999
Relative permittivity (imaginary part)	13.669900
Conductivity (S/m)	1.450225
Variation (%)	-1.130000



Maximum location: X=0.00, Y=-2.00

SAR 10g (W/Kg)	0.305245
SAR 1g (W/Kg)	0.513039

Z Axis Scan



MEASUREMENT 13

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

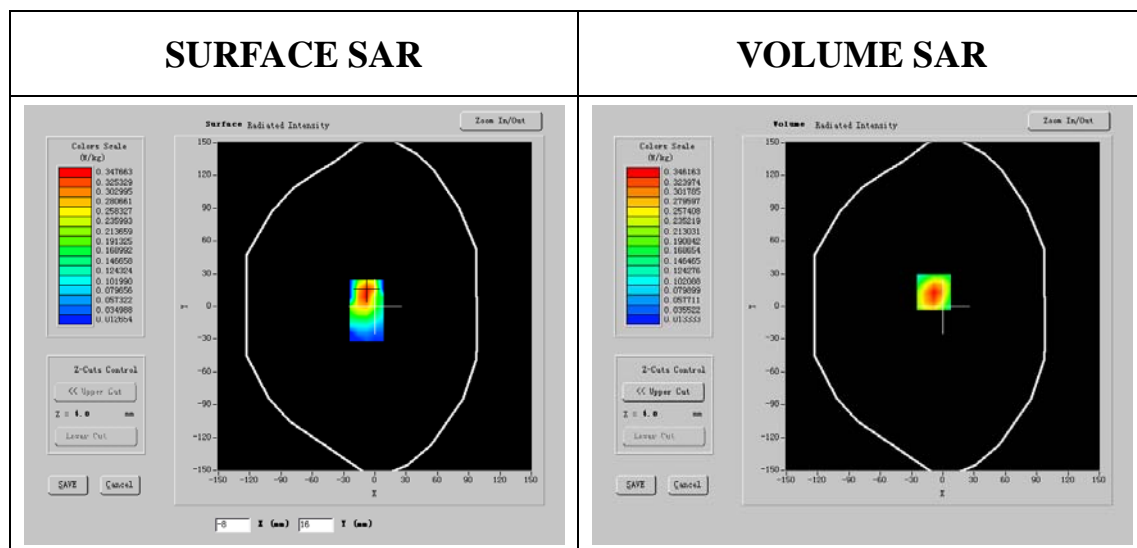
Phantom File	surf_sam_plan.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN 11-09 EP100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

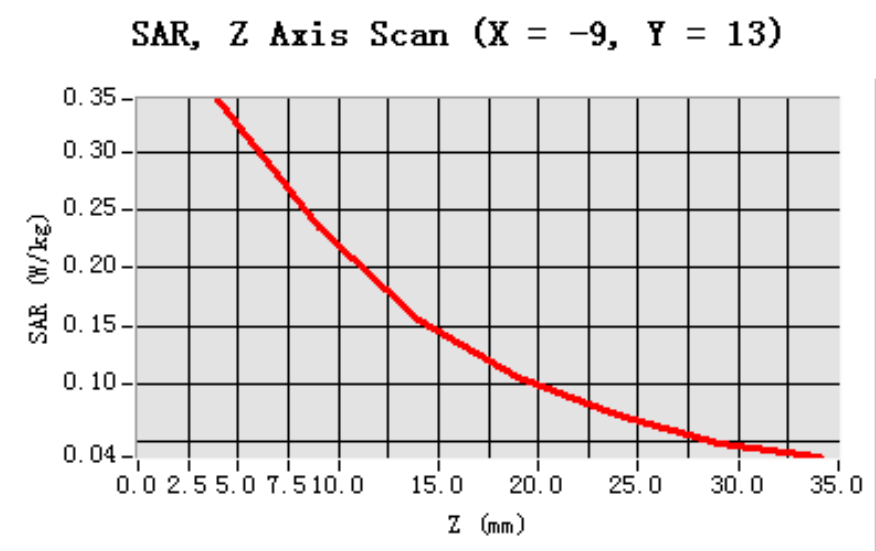
Frequency (MHz)	1850.400024
Relative permittivity (real part)	40.313000
Relative permittivity (imaginary part)	13.584900
Conductivity (S/m)	1.396528
Variation (%)	-0.130000



Maximum location: X=-9.00, Y=13.00

SAR 10g (W/Kg)	0.201879
SAR 1g (W/Kg)	0.327018

Z Axis Scan



MEASUREMENT 14

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

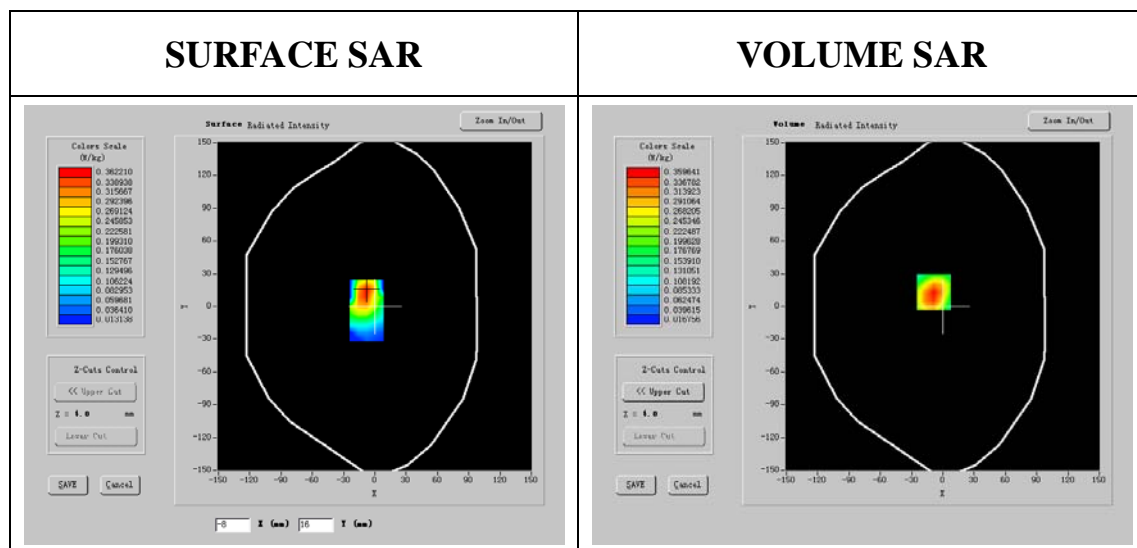
Phantom File	surf_sam_plan.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN 11-09 EP100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

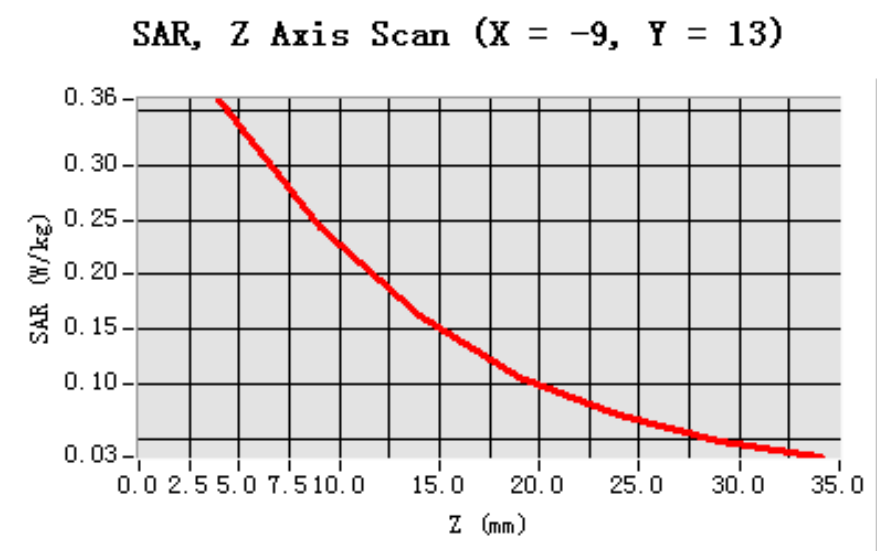
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.193001
Relative permittivity (imaginary part)	13.813800
Conductivity (S/m)	1.442775
Variation (%)	-0.700000



Maximum location: X=-9.00, Y=13.00

SAR 10g (W/Kg)	0.210231
SAR 1g (W/Kg)	0.335800

Z Axis Scan



MEASUREMENT 15

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

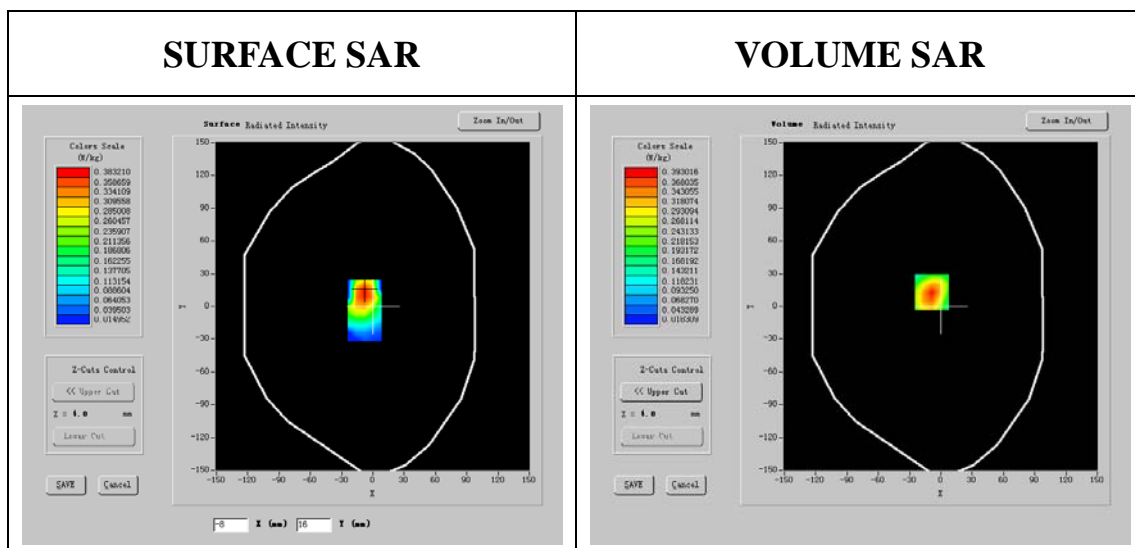
Phantom File	surf_sam_plan.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN 11-09 EP100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

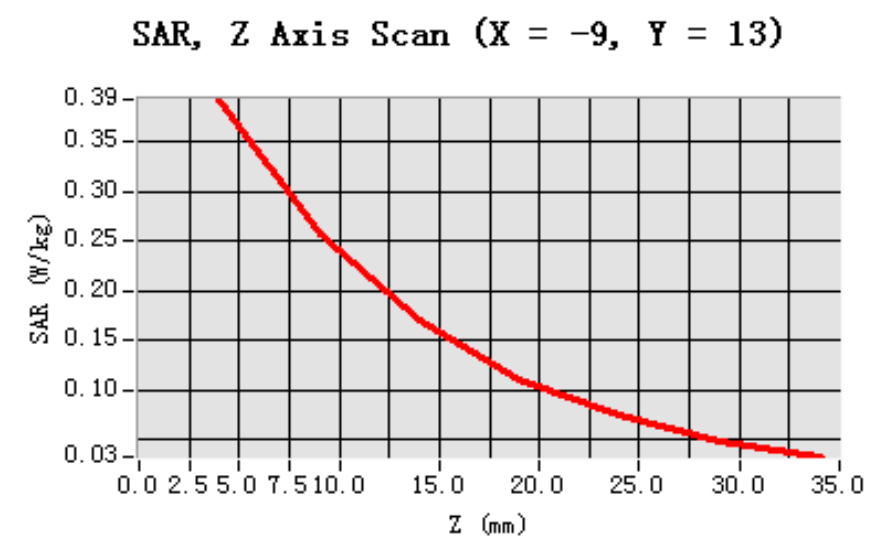
Frequency (MHz)	1909.599976
Relative permittivity (real part)	40.285999
Relative permittivity (imaginary part)	13.669900
Conductivity (S/m)	1.450225
Variation (%)	-0.600000



Maximum location: X=-9.00, Y=13.00

SAR 10g (W/Kg)	0.225303
SAR 1g (W/Kg)	0.365521

Z Axis Scan



GPRS 850

I. RESULTS

<u>TYPE</u>	<u>BAND</u>	<u>PARAMETERS</u>
<u>Noise</u>	--	--
<u>Validation</u>	--	--
<u>Phone</u>	GPRS850	<u>Measurement 1:</u> Validation Plane with Body device position on Low Channel in GMSK mode <u>Measurement 2:</u> Validation Plane with Body device position on Middle Channel in GMSK mode <u>Measurement 3:</u> Validation Plane with Body device position on High Channel in GMSK mode

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

A. Experimental conditions.

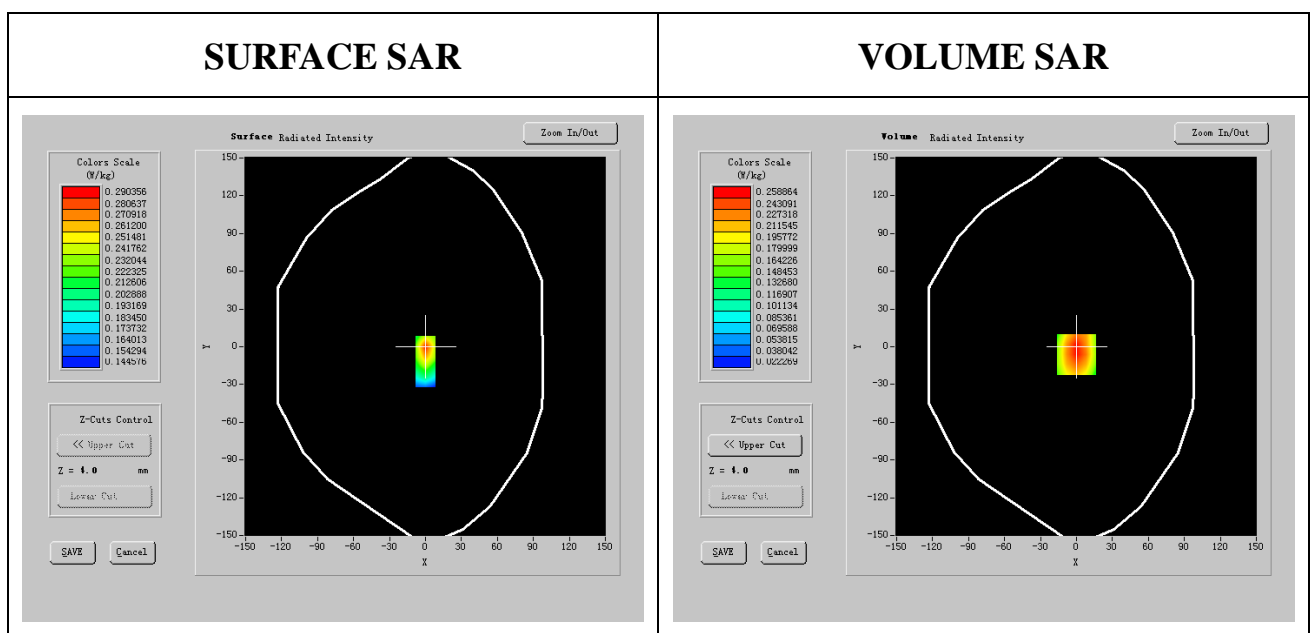
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GPRS850
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V 3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

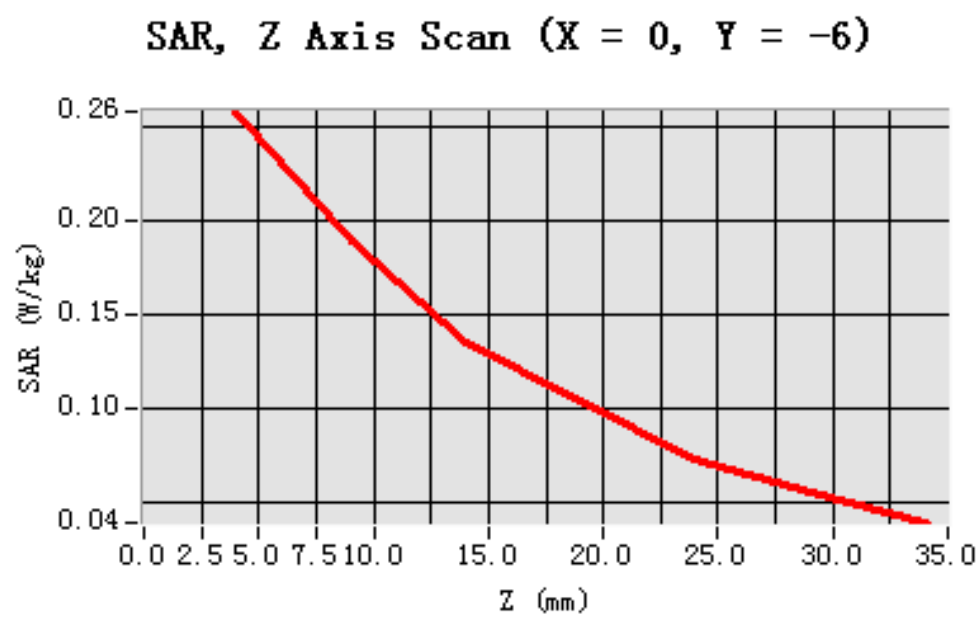
Frequency (MHz)	824.200012
Relative permittivity (real part)	56.584000
Relative permittivity (imaginary part)	21.654150
Conductivity (S/m)	0.991519
Variation (%)	-1.120000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.159544
SAR 1g (W/Kg)	0.290568

Z Axis Scan



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

A. Experimental conditions.

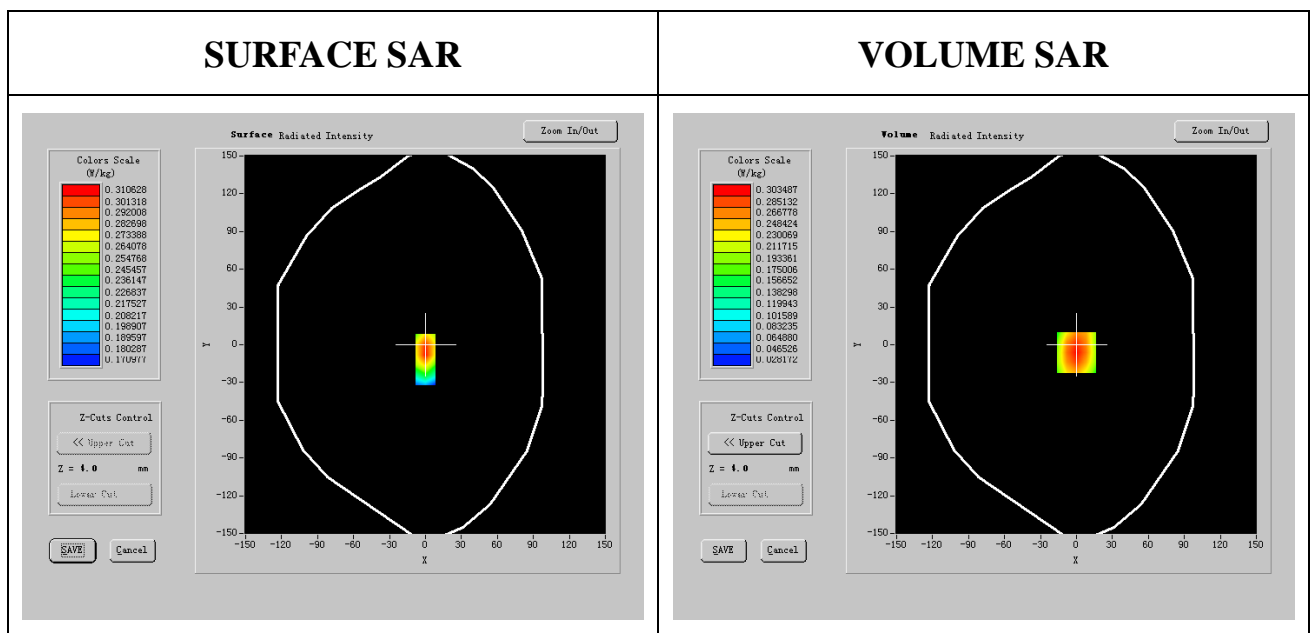
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GPRS850
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V 3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

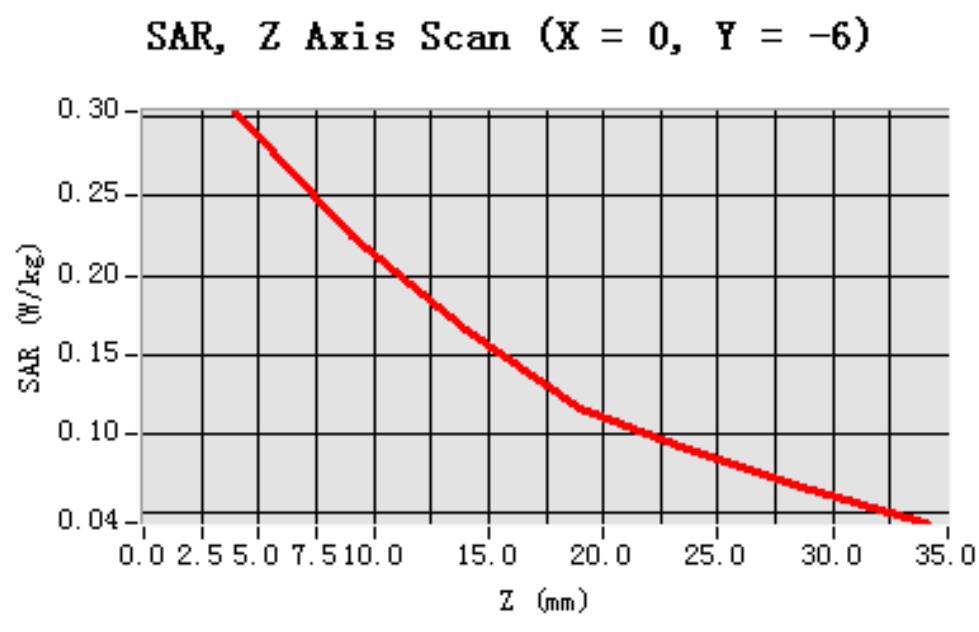
Frequency (MHz)	836.400024
Relative permittivity (real part)	55.501999
Relative permittivity (imaginary part)	21.866249
Conductivity (S/m)	0.986052
Variation (%)	-0.200000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.230721
SAR 1g (W/Kg)	0.310165

Z Axis Scan



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

A. Experimental conditions.

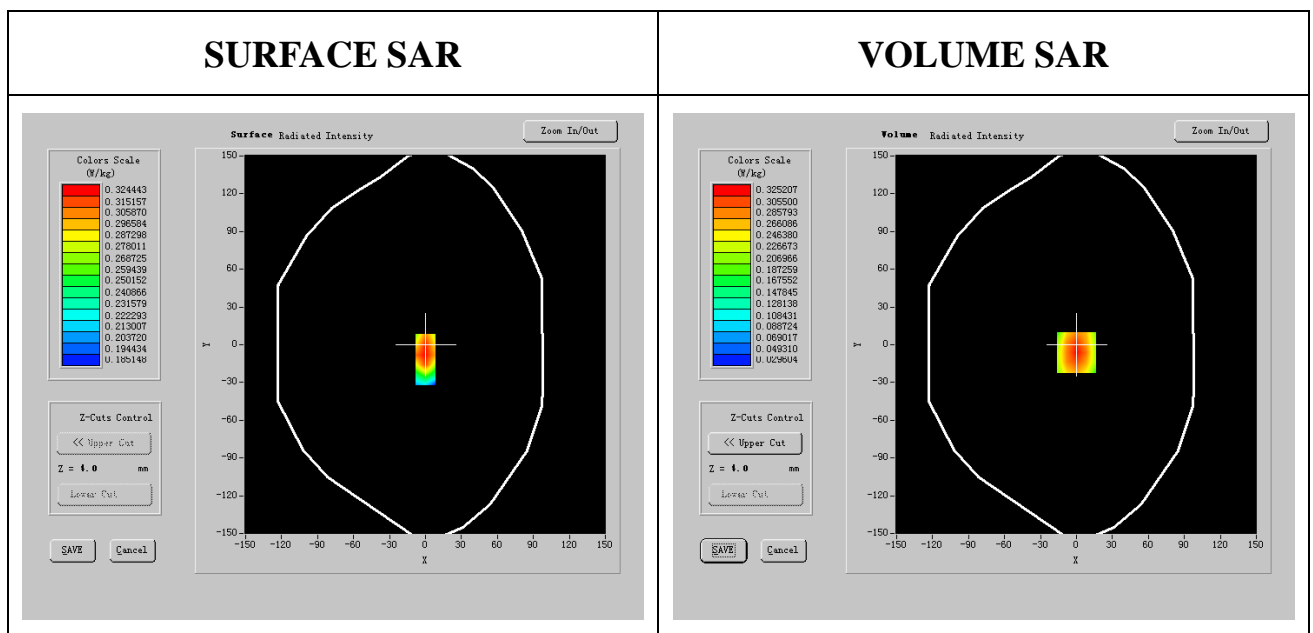
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GPRS850
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V 3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

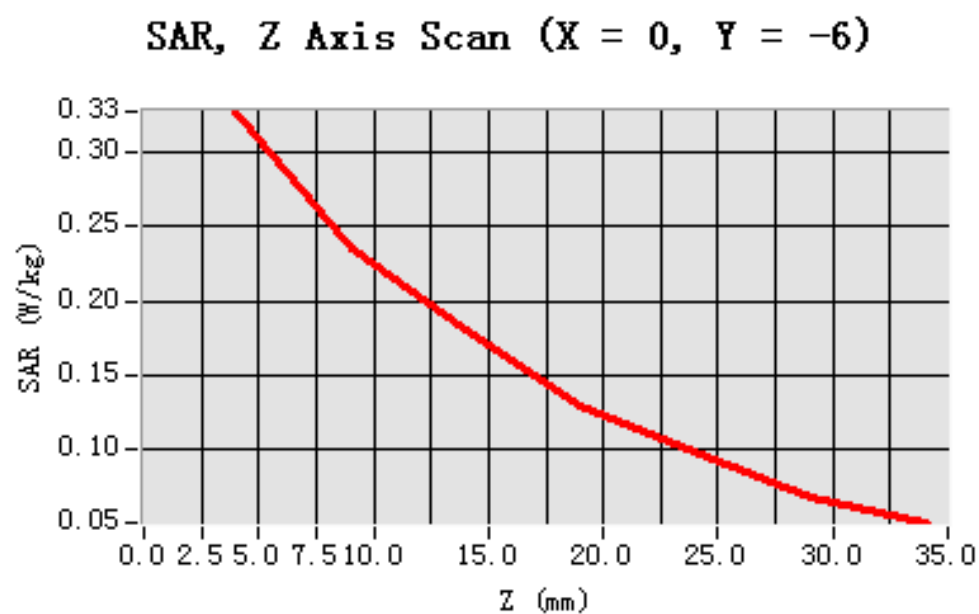
Frequency (MHz)	848.599976
Relative permittivity (real part)	55.576000
Relative permittivity (imaginary part)	21.726601
Conductivity (S/m)	1.024288
Variation (%)	-0.220000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.225383
SAR 1g (W/Kg)	0.342031

Z Axis Scan



GPRS 1900

I. RESULTS

<u>TYPE</u>	<u>BAND</u>	<u>PARAMETERS</u>
<u>Noise</u>	--	--
<u>Validation</u>	--	--
<u>Phone</u>	GPRS1900	<u>Measurement 1:</u> Validation Plane with Body device position on Low Channel in GMSK mode <u>Measurement 2:</u> Validation Plane with Body device position on Middle Channel in GMSK mode <u>Measurement 3:</u> Validation Plane with Body device position on High Channel in GMSK mode

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 6 minutes 46 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

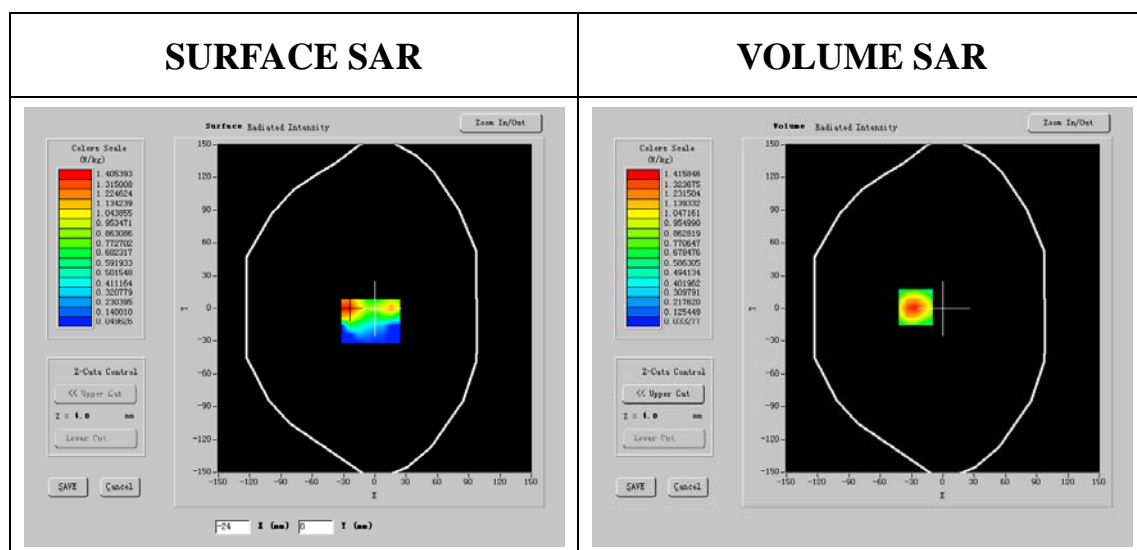
Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Body
Band	GPRS1900
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_11/09_EP_100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

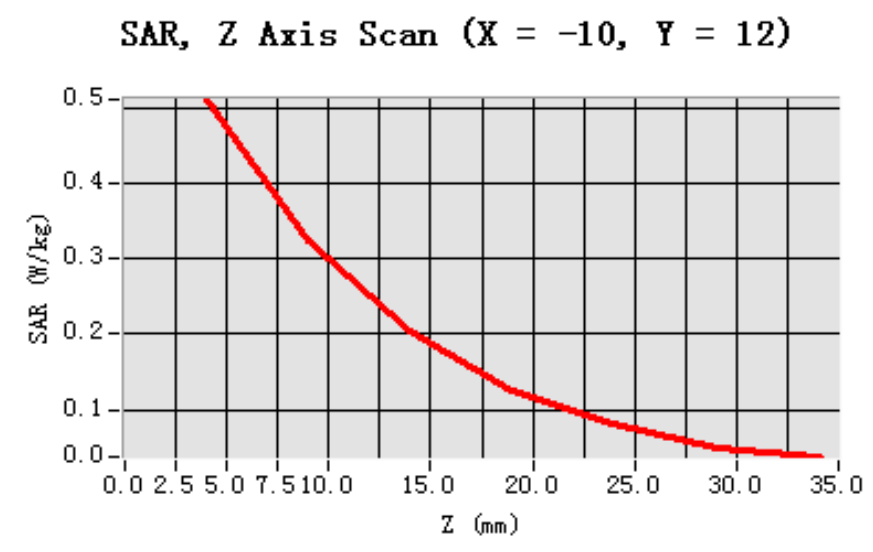
Frequency (MHz)	1710.199951
Relative permittivity (real part)	52.347400
Relative permittivity (imaginary part)	14.450693
Conductivity (S/m)	1.333698
Variation (%)	-0.400000



Maximum location: X=-31.00, Y=-16.00

SAR 10g (W/Kg)	0.225540
SAR 1g (W/Kg)	0.422381

Z Axis Scan



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 6 minutes 51 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

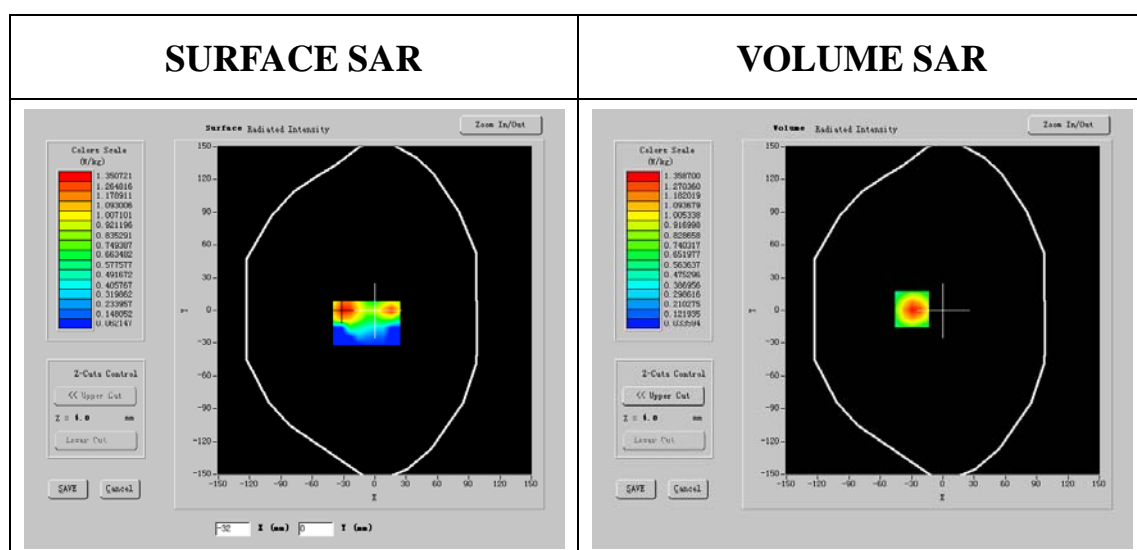
Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Body
Band	GPRS1900
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_11/09_EP_100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

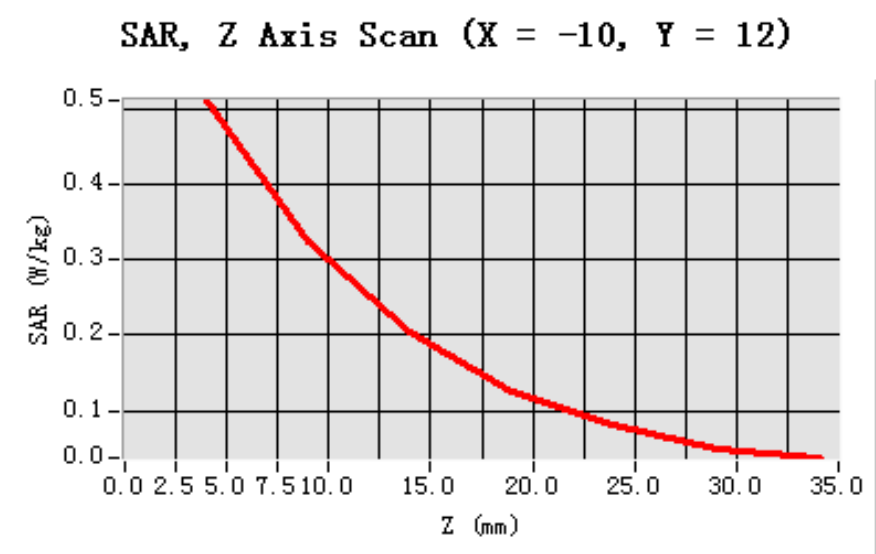
Frequency (MHz)	1747.400004
Relative permittivity (real part)	51.417028
Relative permittivity (imaginary part)	14.293556
Conductivity (S/m)	1.214286
Variation (%)	-1.010000



Maximum location: X=-31.00, Y=-16.00

SAR 10g (W/Kg)	0.210278
SAR 1g (W/Kg)	0.434160

Z Axis Scan



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 6 minutes 21 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

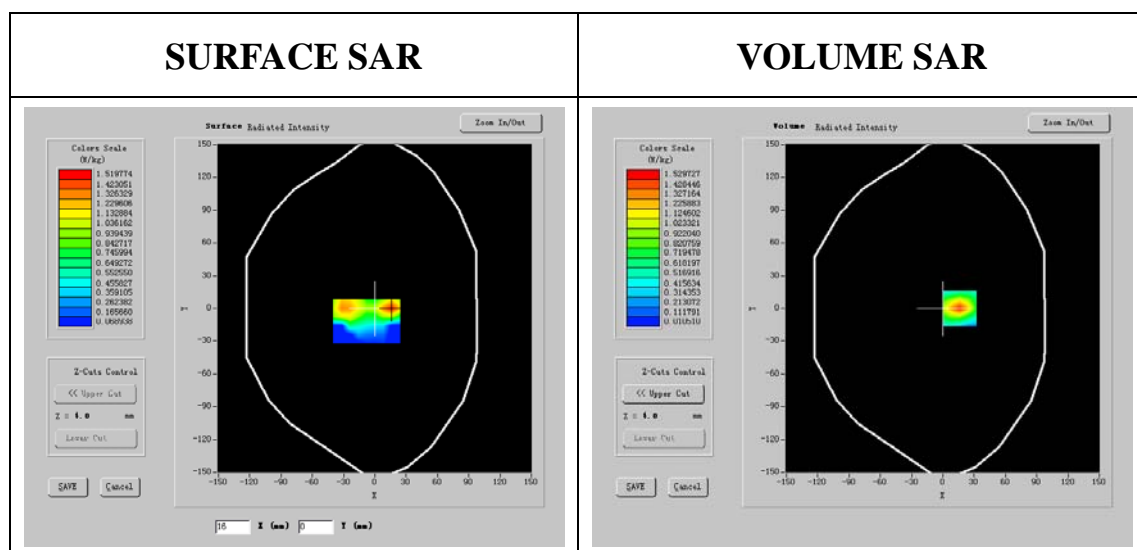
Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Body
Band	GPRS1900
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_11/09_EP_100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

Frequency (MHz)	1784.599036
Relative permittivity (real part)	51.813332
Relative permittivity (imaginary part)	14.319230
Conductivity (S/m)	1.353265
Variation (%)	-0.130000



Maximum location: X=2.00, Y=9.00

SAR 10g (W/Kg)	0.233584
SAR 1g (W/Kg)	0.459137

Z Axis Scan

