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	<b>SAR MEASUREMENT REPORT</b>
	<b>Project name :</b>
	<b>KS070924A01</b>

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## 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> 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

**Ambient temperature:19C**

**Liquid Temperature:20C\_\_**

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## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 26/10/2007

Measurement duration: 19 minutes 33 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

<b>Phantom File</b>	surf_sam_plan.txt, Adaptive 2 max
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM1900
<b>Channels</b>	Low
<b>Signal</b>	GMSK

### **B. Instrumentations.**

<b>PC</b>	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
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<b>Network Emulator</b>	R&S (CMU200, SN:B23-03291)
<b>Voltmeter</b>	Keithley (2000, SN:1015843)
<b>Synthesizer</b>	Agilent (E8257C, SN:MY43321570)
<b>Amplifier</b>	Mini-Circuits (ZHL-42, SN:110405)
<b>Power Meter</b>	Agilent (E4416A, SN:QB41292714)
<b>Probe</b>	Antennessa (SN:SN_0807_EP_74)
<b>Phantom</b>	Antennessa (SN:SN41_05_SAM29)
<b>Liquid</b>	Antennessa (Last Calibration:02/2006)

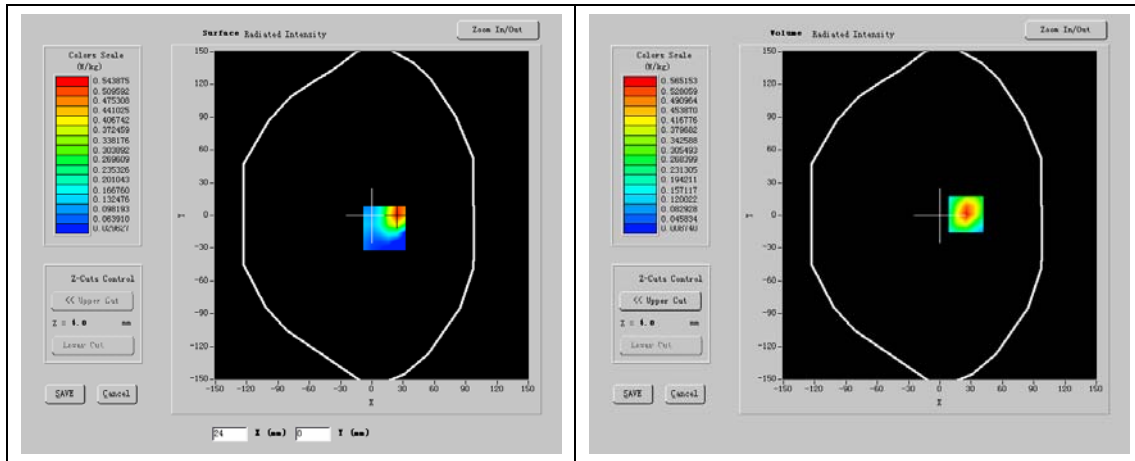
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## **C. SAR Measurement Results**

Lower Band SAR (Channel 513):

<b>Frequency (MHz)</b>	1850.400024
<b>Relative permittivity (real part)</b>	40.313000
<b>Relative permittivity (imaginary part)</b>	13.584900
<b>Conductivity (S/m)</b>	1.396528
<b>Variation (%)</b>	0.650000

<b>SURFACE SAR</b>	<b>VOLUME SAR</b>
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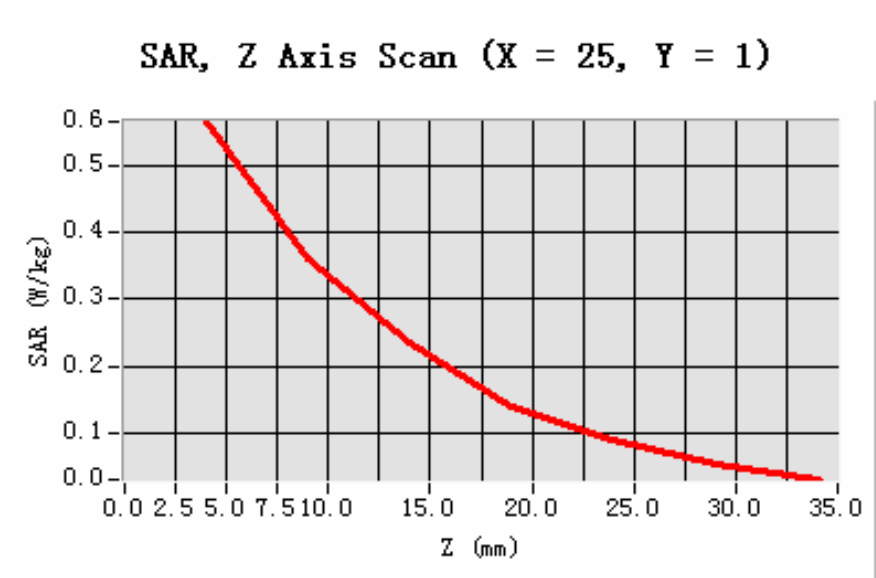


**Maximum location: X=25.00, Y=1.00**

<b>SAR 10g (W/Kg)</b>	0.288753
<b>SAR 1g (W/Kg)</b>	0.519696

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## Z Axis Scan



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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 26/10/2007

Measurement duration: 19 minutes 33 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

<b>Phantom File</b>	surf_sam_plan.txt, Adaptive 2 max
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	GMSK

### **B. Instrumentations.**



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<b>PC</b>	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
<b>Network Emulator</b>	R&S (CMU200, SN:B23-03291)
<b>Voltmeter</b>	Keithley (2000, SN:1015843)
<b>Synthesizer</b>	Agilent (E8257C, SN:MY43321570)
<b>Amplifier</b>	Mini-Circuits (ZHL-42, SN:110405)
<b>Power Meter</b>	Agilent (E4416A, SN:QB41292714)
<b>Probe</b>	Antennessa (SN:SN_0807_EP_74)
<b>Phantom</b>	Antennessa (SN:SN41_05_SAM29)
<b>Liquid</b>	Antennessa (Last Calibration:02/2006)

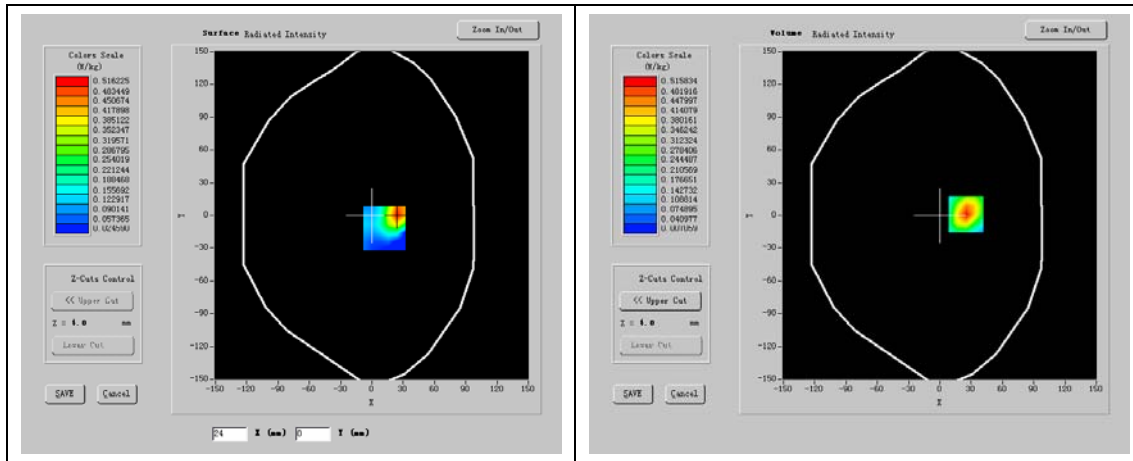
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## **C. SAR Measurement Results**

Middle Band SAR (Channel 661):

<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	40.193001
<b>Relative permittivity (imaginary part)</b>	13.813800
<b>Conductivity (S/m)</b>	1.442775
<b>Variation (%)</b>	0.650000

<b>SURFACE SAR</b>	<b>VOLUME SAR</b>
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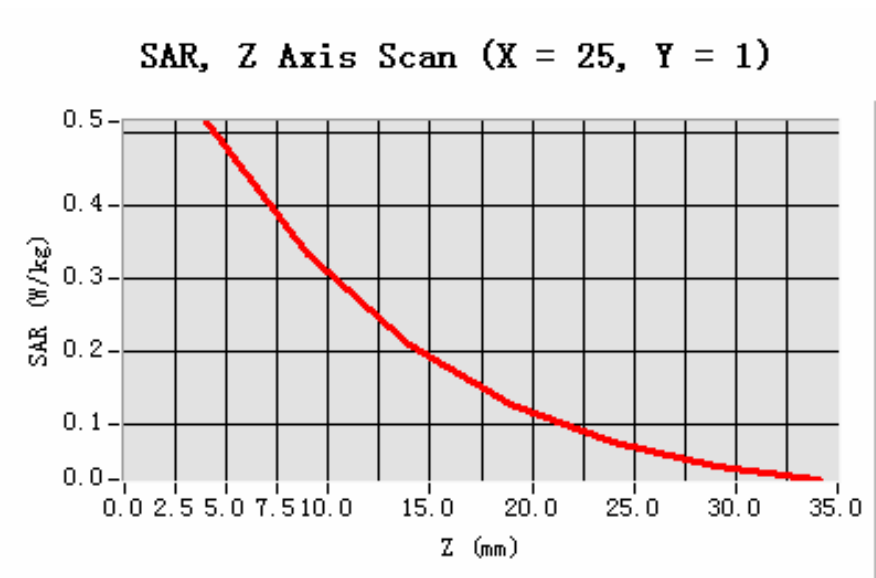


**Maximum location: X=25.00, Y=1.00**

<b>SAR 10g (W/Kg)</b>	0.262912
<b>SAR 1g (W/Kg)</b>	0.472307

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## Z Axis Scan



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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 26/10/2007

Measurement duration: 19 minutes 33 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

<b>Phantom File</b>	surf_sam_plan.txt, Adaptative 2 max
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM1900
<b>Channels</b>	High
<b>Signal</b>	GMSK

### **B. Instrumentations.**

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<b>PC</b>	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
<b>Network Emulator</b>	R&S (CMU200, SN:B23-03291)
<b>Voltmeter</b>	Keithley (2000, SN:1015843)
<b>Synthetizer</b>	Agilent (E8257C, SN:MY43321570)
<b>Amplifier</b>	Mini-Circuits (ZHL-42, SN:110405)
<b>Power Meter</b>	Agilent (E4416A, SN:QB41292714)
<b>Probe</b>	Antennessa (SN:SN_0807_EP_74)
<b>Phantom</b>	Antennessa (SN:SN41_05_SAM29)
<b>Liquid</b>	Antennessa (Last Calibration:02/2006)

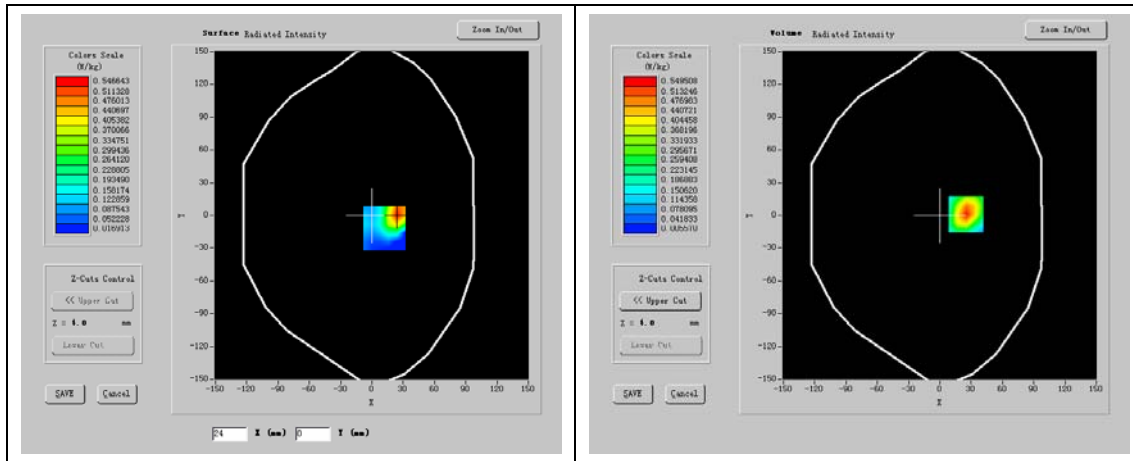
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## **C. SAR Measurement Results**

Higher Band SAR (Channel 809):

<b>Frequency (MHz)</b>	1909.599976
<b>Relative permittivity (real part)</b>	40.285999
<b>Relative permittivity (imaginary part)</b>	13.669900
<b>Conductivity (S/m)</b>	1.450225
<b>Variation (%)</b>	0.650000

<b>SURFACE SAR</b>	<b>VOLUME SAR</b>
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**Maximum location: X=25.00, Y=1.00**

<b>SAR 10g (W/Kg)</b>	0.279086
<b>SAR 1g (W/Kg)</b>	0.503692



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## Z Axis Scan

