	SAR MEASUREMENT REPORT
	Project name :
	KS071012A02 **FCCID: VFM-NSZMNS9000**

I. RESULTS

TYPE	BAND	PARAMETERS
Noise	--	--
Validation	--	--
Phone	**GSM1900**	Measurement 1: Validation Plane with Body device position on Low Channel in GPRS mode Measurement 2: Validation Plane with Body device position on Middle Channel in GPRS mode Measurement 3: Validation Plane with Body device position on High Channel in GPRS mode

MEASUREMENT 1

Ambient temperature:20c

Liquid temperature:21c

Crest Factor: 4 (Duty cycle: 25%)

Type: Phone measurement (Complete)

Date of measurement: 12/10/2007

Measurement duration: 7 minutes 14 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	GPRS

B. Instrumentations.

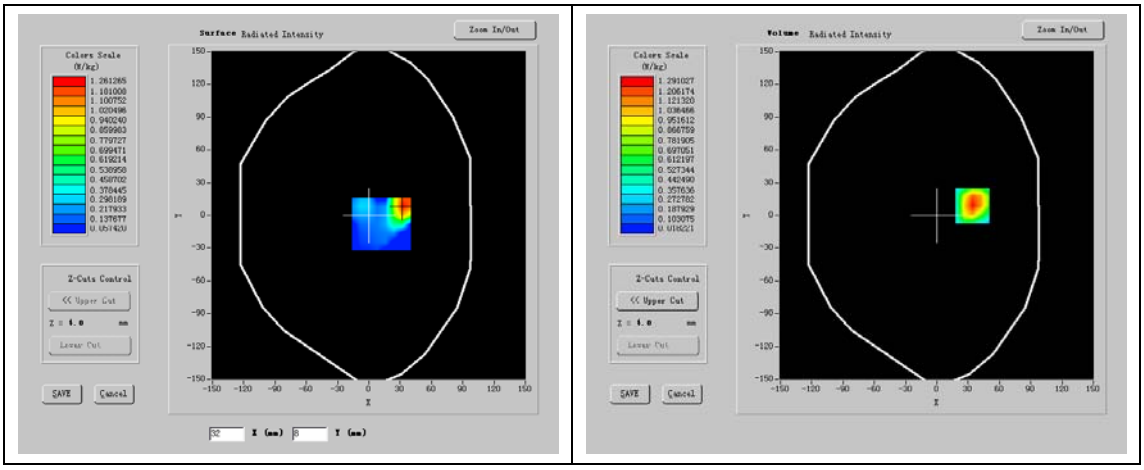
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_0807_EP_74)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa (Last Calibration:02/2007)

C. SAR Measurement Results

Lower Band SAR (Channel 513):

Frequency (MHz)	1850.400024
Relative permitivity (real part)	40.256100
Relative permitivity (imaginary part)	13.589120
Conductivity (S/m)	1.3643528
Variation (%)	-1.600000

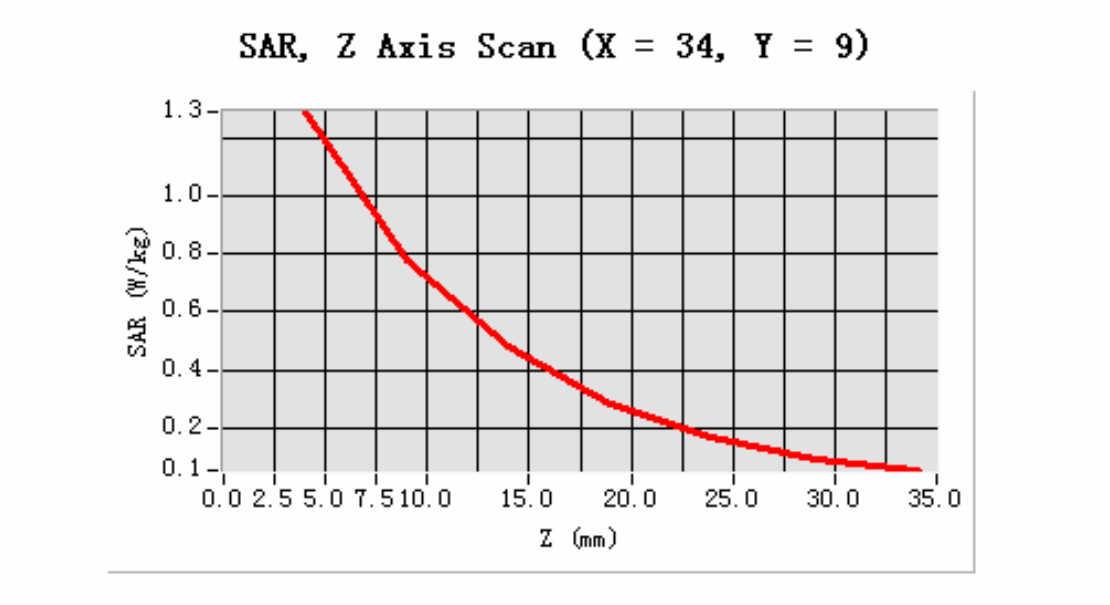
SURFACE SAR	**VOLUME SAR**



Maximum location: X=34.00, Y=9.00

SAR 10g (W/Kg)	0.171061
SAR 1g (W/Kg)	0.320113

Z Axis Scan


SAR, Z Axis Scan (X = 34, Y = 9)
SAR (W/kg)
1.3
1.0
0.8
0.6
0.4
0.2
0.1
0.0 2.5 5.0 7.5 10.0 15.0 20.0 25.0 30.0 35.0
Z (mm)

MEASUREMENT 2

Ambient temperature:20c

Liquid temperature:21c

Crest Factor: 4 (Duty cycle: 25%)

Type: Phone measurement (Complete)

Date of measurement: 12/10/2007

Measurement duration: 7 minutes 10 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	GPRS

B. Instrumentations.

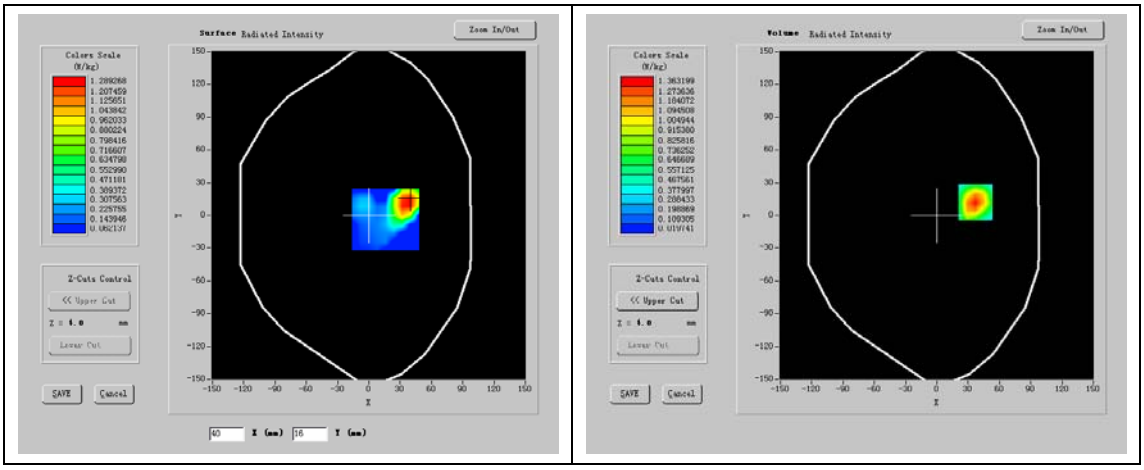
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_0807_EP_74)
Phantom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

C. SAR Measurement Results

Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permitivity (real part)	40.186012
Relative permitivity (imaginary part)	14.013830
Conductivity (S/m)	1.422375
Variation (%)	-0.800000

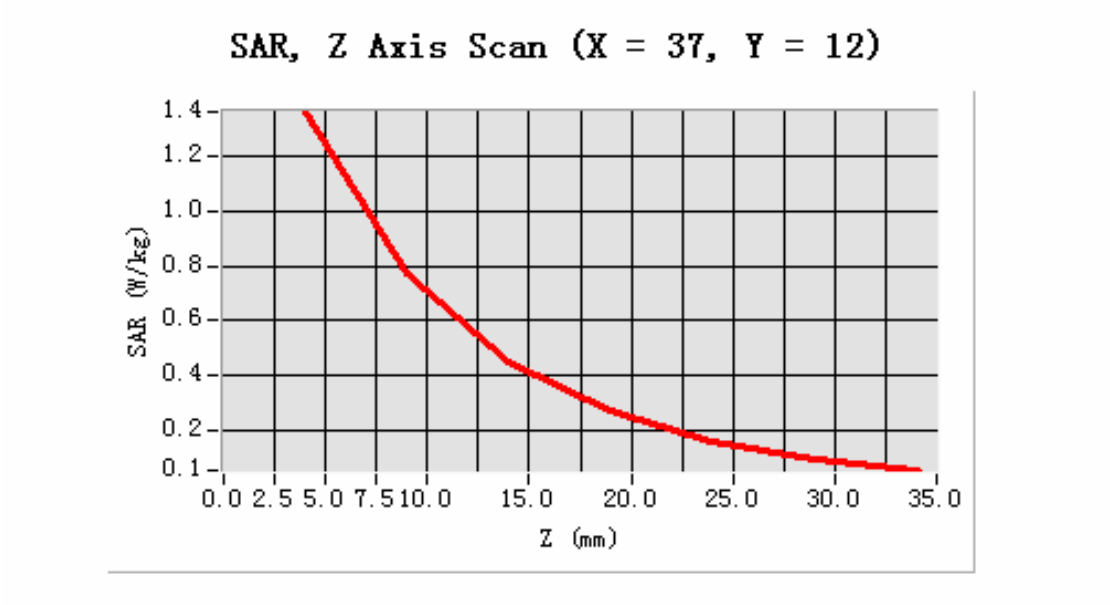
SURFACE SAR	**VOLUME SAR**



Maximum location: X=37.00, Y=12.00

SAR 10g (W/Kg)	0.109180
SAR 1g (W/Kg)	0.275799

Z Axis Scan


SAR, Z Axis Scan (X = 37, Y = 12)
SAR (W/kg)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.1
0.0 2.5 5.0 7.5 10.0 15.0 20.0 25.0 30.0 35.0
Z (mm)

MEASUREMENT 3

Ambient temperature:20c

Liquid temperature:21c

Crest Factor: 4 (Duty cycle: 25%)

Type: Phone measurement (Complete)

Date of measurement: 12/10/2007

Measurement duration: 7 minutes 4 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	GMSK

B. Instrumentations.

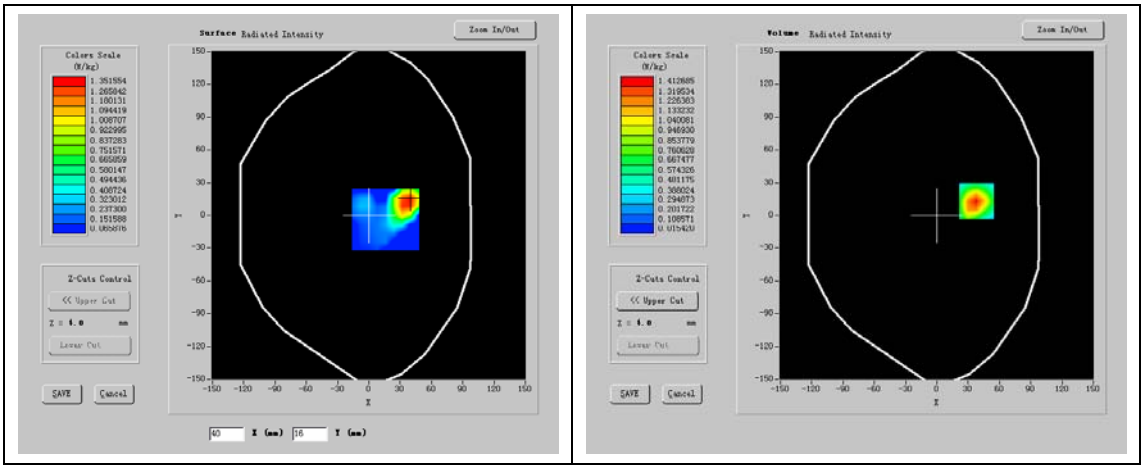
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_0807_EP_74)
Phantom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

C. SAR Measurement Results

Higher Band SAR (Channel 809):

Frequency (MHz)	1909.599976
Relative permitivity (real part)	40.085697
Relative permitivity (imaginary part)	13.921900
Conductivity (S/m)	1.430625
Variation (%)	-2.200000

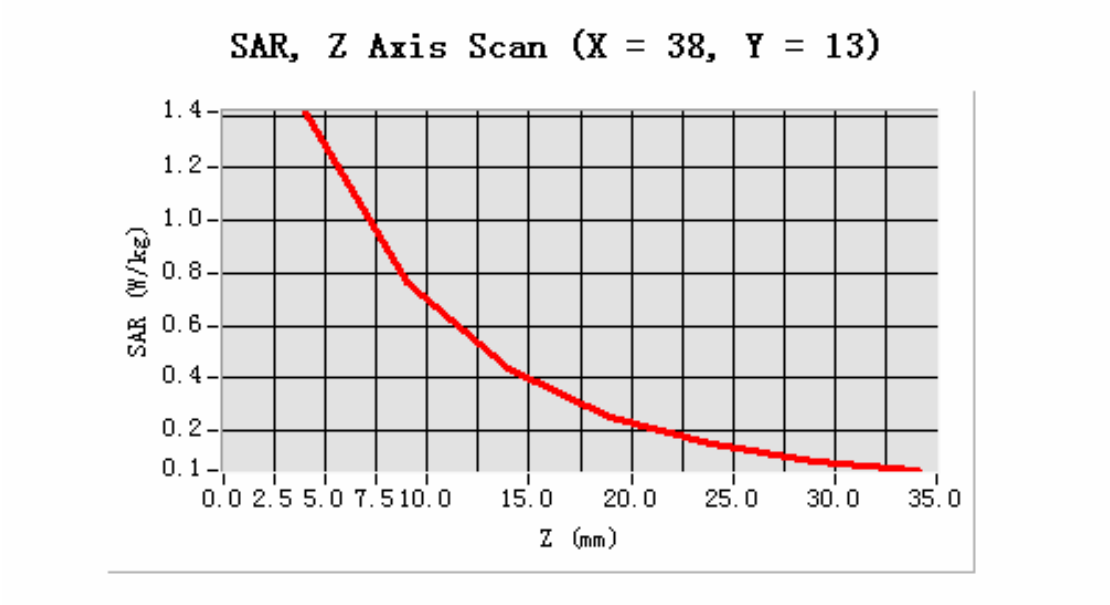
SURFACE SAR	**VOLUME SAR**



Maximum location: X=38.00, Y=13.00

SAR 10g (W/Kg)	0.701871
SAR 1g (W/Kg)	0.210941

Z Axis Scan


SAR, Z Axis Scan (X = 38, Y = 13)
SAR (W/kg)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.1
0.0 2.5 5.0 7.5 10.0 15.0 20.0 25.0 30.0 35.0
Z (mm)