	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 GMSK mode Measurement 2: Validation Plane with Body device position on Middle Channel in GMSK mode Measurement 3: Validation Plane with Body device position on High Channel in GMSK mode

MEASUREMENT 1

Ambient temperature:20c

Liquid temperature:21c

Crest Factor: 8 (Duty cycle:12.5%)

Type: Phone measurement (Complete)

Date of measurement: 12/10/2007

Measurement duration: 6 minutes 31 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	GMSK

B. Instrumentations.

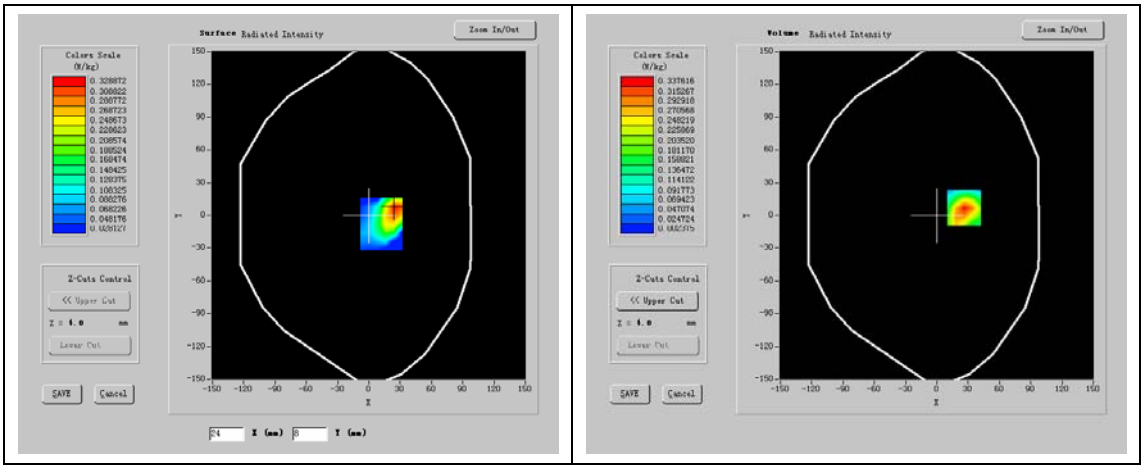
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_0807_EP_74)
Phantom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

C. SAR Measurement Results

Lower Band SAR (Channel 513):

Frequency (MHz)	1850.400024
Relative permitivity (real part)	40.313000
Relative permitivity (imaginary part)	13.584900
Conductivity (S/m)	1.396528
Variation (%)	-1.570000

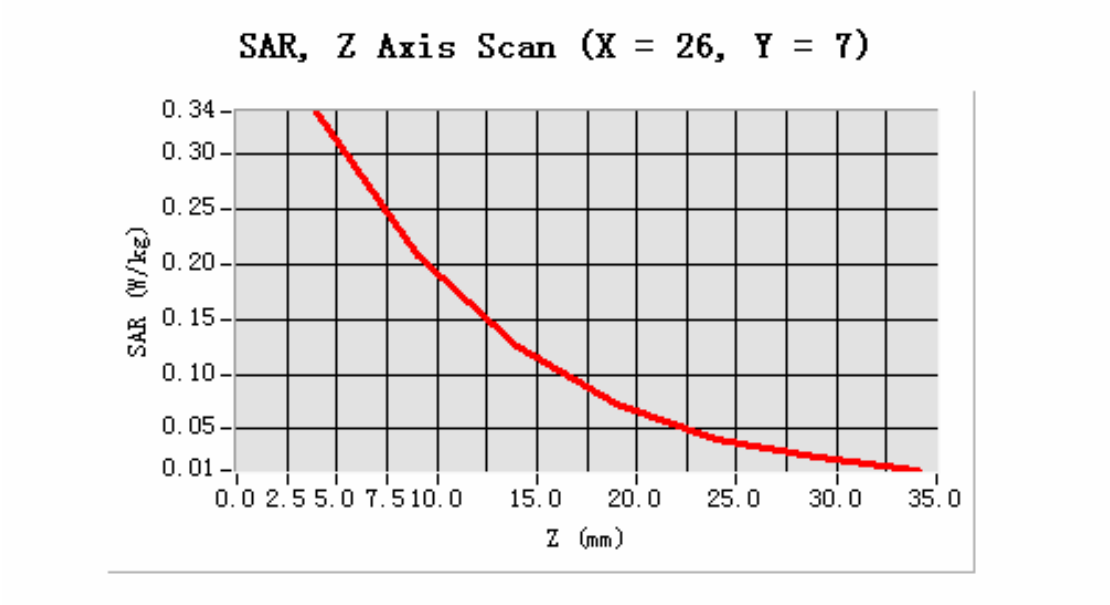
SURFACE SAR	**VOLUME SAR**



Maximum location: X=26.00, Y=7.00

SAR 10g (W/Kg)	0.170785
SAR 1g (W/Kg)	0.311338

Z Axis Scan


SAR, Z Axis Scan (X = 26, Y = 7)
SAR (W/kg)
0.34
0.30
0.25
0.20
0.15
0.10
0.05
0.01
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: 8 (Duty cycle:12.5%)

Type: Phone measurement (Complete)

Date of measurement: 12/10/2007

Measurement duration: 6 minutes 24 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	GMSK

B. Instrumentations.

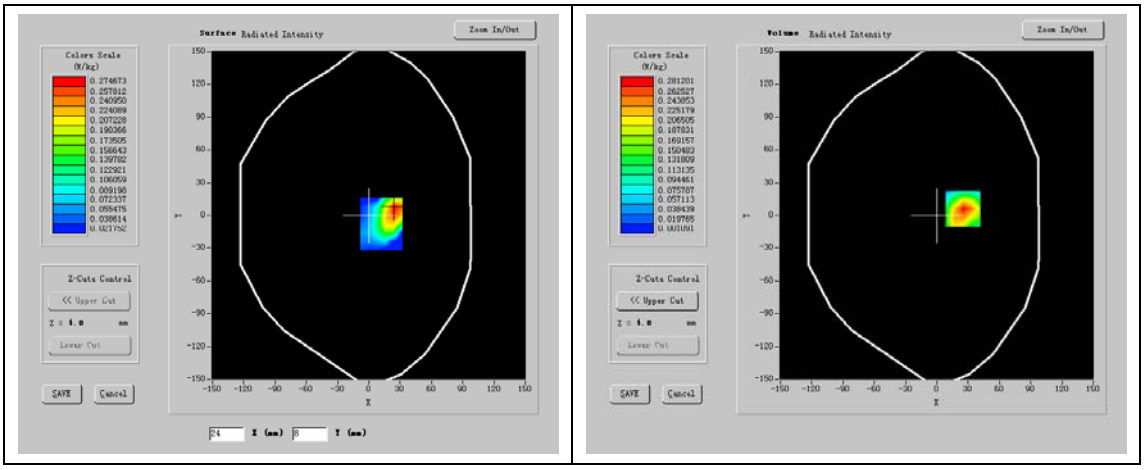
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_0807_EP_74)
Phantom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

C. SAR Measurement Results

Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permitivity (real part)	40.193001
Relative permitivity (imaginary part)	13.813800
Conductivity (S/m)	1.442775
Variation (%)	-1.130000

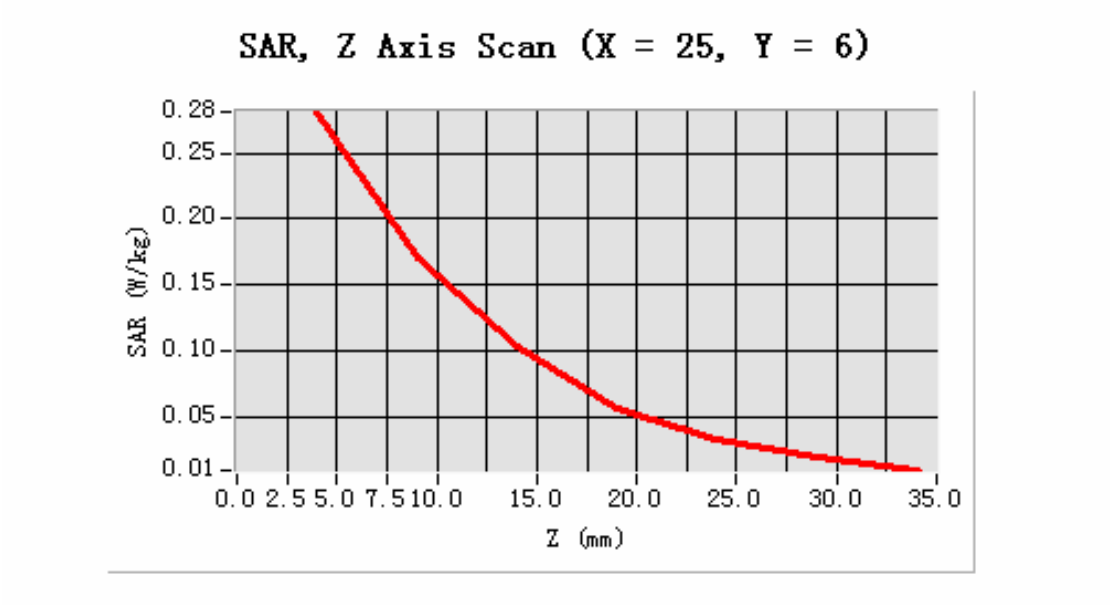
SURFACE SAR	**VOLUME SAR**



Maximum location: X=25.00, Y=6.00

SAR 10g (W/Kg)	0.141850
SAR 1g (W/Kg)	0.259189

Z Axis Scan


SAR, Z Axis Scan (X = 25, Y = 6)
SAR (W/kg)
0.28
0.25
0.20
0.15
0.10
0.05
0.01
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: 8 (Duty cycle:12.5%)

Type: Phone measurement (Complete)

Date of measurement: 12/10/2007

Measurement duration: 6 minutes 24 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.

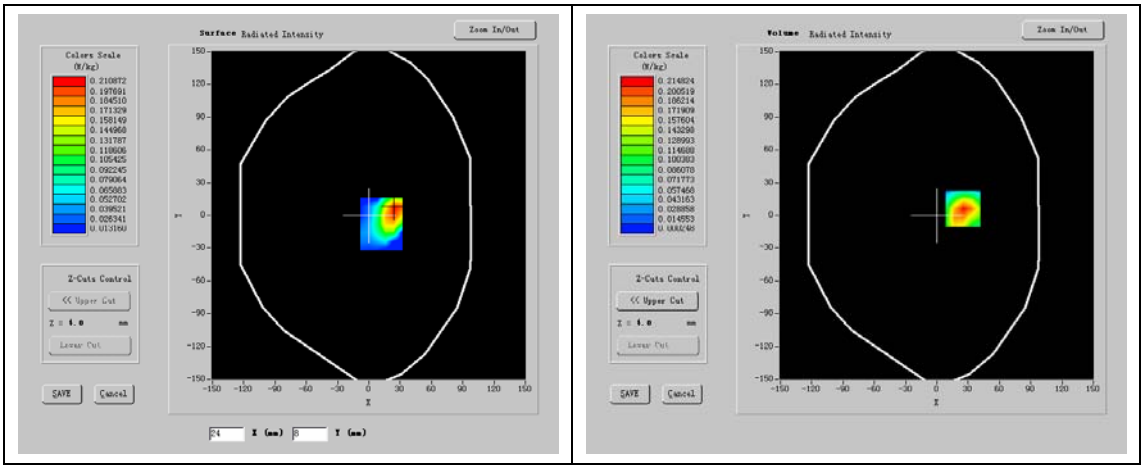
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_0807_EP_74)
Phantom	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)	40.285999
Relative permitivity (imaginary part)	13.669900
Conductivity (S/m)	1.450225
Variation (%)	-1.020000

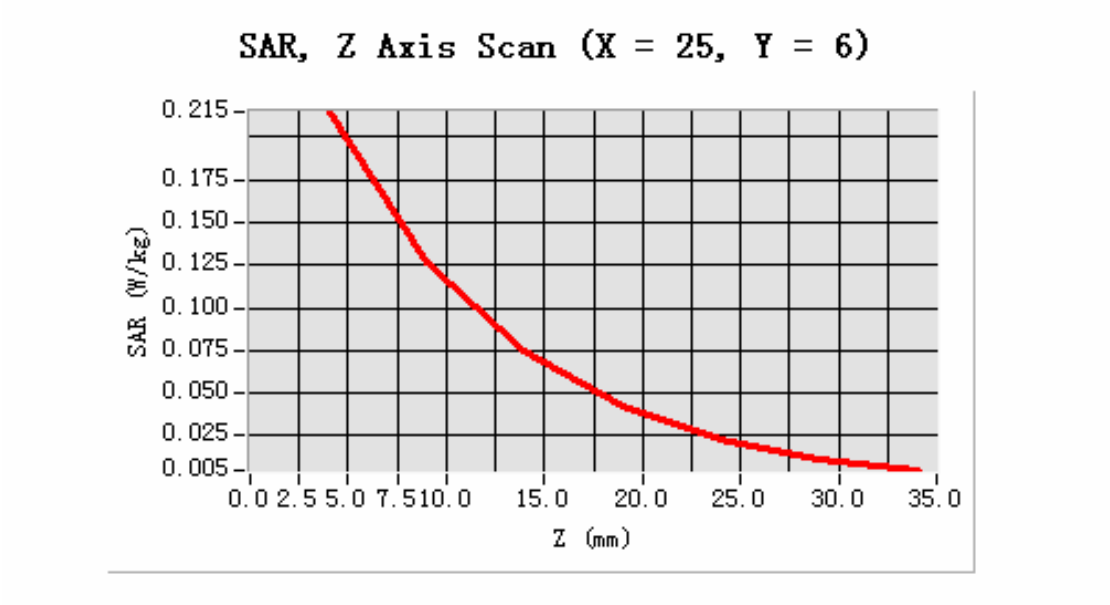
SURFACE SAR	**VOLUME SAR**



Maximum location: X=25.00, Y=6.00

SAR 10g (W/Kg)	0.107527
SAR 1g (W/Kg)	0.199394

Z Axis Scan


SAR, Z Axis Scan (X = 25, Y = 6)
SAR (W/kg)
0.215
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.005
0.0 2.5 5.0 7.5 10.0 15.0 20.0 25.0 30.0 35.0
Z (mm)