

# SAR

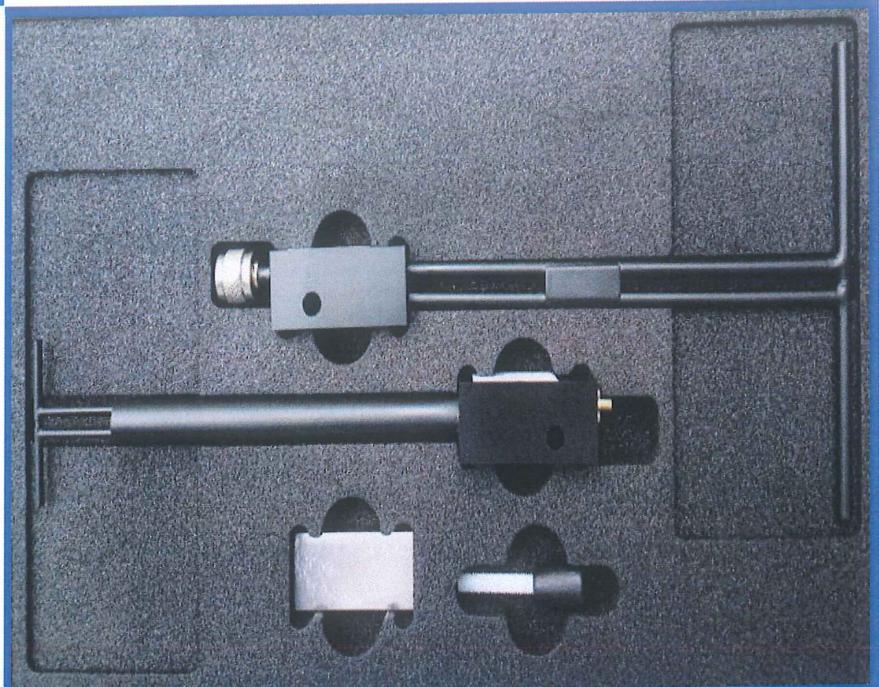
## Dipole& Waveguide Performance Measurement Report

ISSUED BY  
Shenzhen BALUN Technology Co., Ltd.



FOR  
Validation Dipoles & Waveguide

FCC ID:VUI-MT10MT



Tested by:  
  
Tu Lang  
(Engineer)

Approved by:  
  
Liao Jianming  
(Technical Director)

Report No.: LW-SZ17C0366-701  
EUT Type: SAR Validation Dipole and Waveguide  
Model Name: DIP 0G750-253 DIP, 0G835-246  
DIP 0G900-247 DIP, 1G800-248  
DIP 1G900-249 DIP, 2G000-250  
DIP 2G450-251 DIP, 2G600-254  
SWG 5500-WGA24  
Brand Name: SATIMO  
Test Conclusion: Pass  
Test Date: Mar. 1, 2017 ~ Mar. 4, 2017  
Date of Issue: Mar. 18, 2017

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# 1 GENERAL INFORMATION

## 1.1 Introduction

This document contains a summary of the requirements set forth by the IEEE 1528, FCC KDB 865664 D01 for reference dipoles used for SAR measurement system validations. Instead of the typical annual calibration recommended by measurement standards, the reference dipoles were demonstrated that the SAR target, impedance and return loss have remain stable, so the longer calibration interval is acceptable.

## 1.2 General Description for Equipment under Test (EUT)

Model	Frequency	Serial Number	Product Condition (New/ Used)	Last Cal. Date
<b>Dipole</b>				
DIP 0G750	750 MHz	SN 25/13 DIP 0G750-253	Used	2015/03/16
DIP 0G835	835 MHz	SN 25/13 DIP 0G835-246	Used	2015/03/16
DIP 0G900	900 MHz	SN 25/13 DIP 0G900-247	Used	2015/03/16
DIP 1G800	1800 MHz	SN 25/13 DIP 1G900-248	Used	2015/03/16
DIP 1G900	1900 MHz	SN 25/13 DIP 1G900-249	Used	2015/03/16
DIP 2G000	2000 MHz	SN 25/13 DIP 2G000-250	Used	2015/03/16
DIP 2G450	2450 MHz	SN 25/13 DIP 2G450-251	Used	2015/03/16
DIP 2G600	2600 MHz	SN 25/13 DIP 2G600-254	Used	2015/03/16
<b>Waveguide</b>				
SWG5500	5GHz-6GHz	SN 30/13 WGA24	Used	2015/03/16

## 1.3 EUT Photos



DIP 0G900-247



DIP 1G800-248



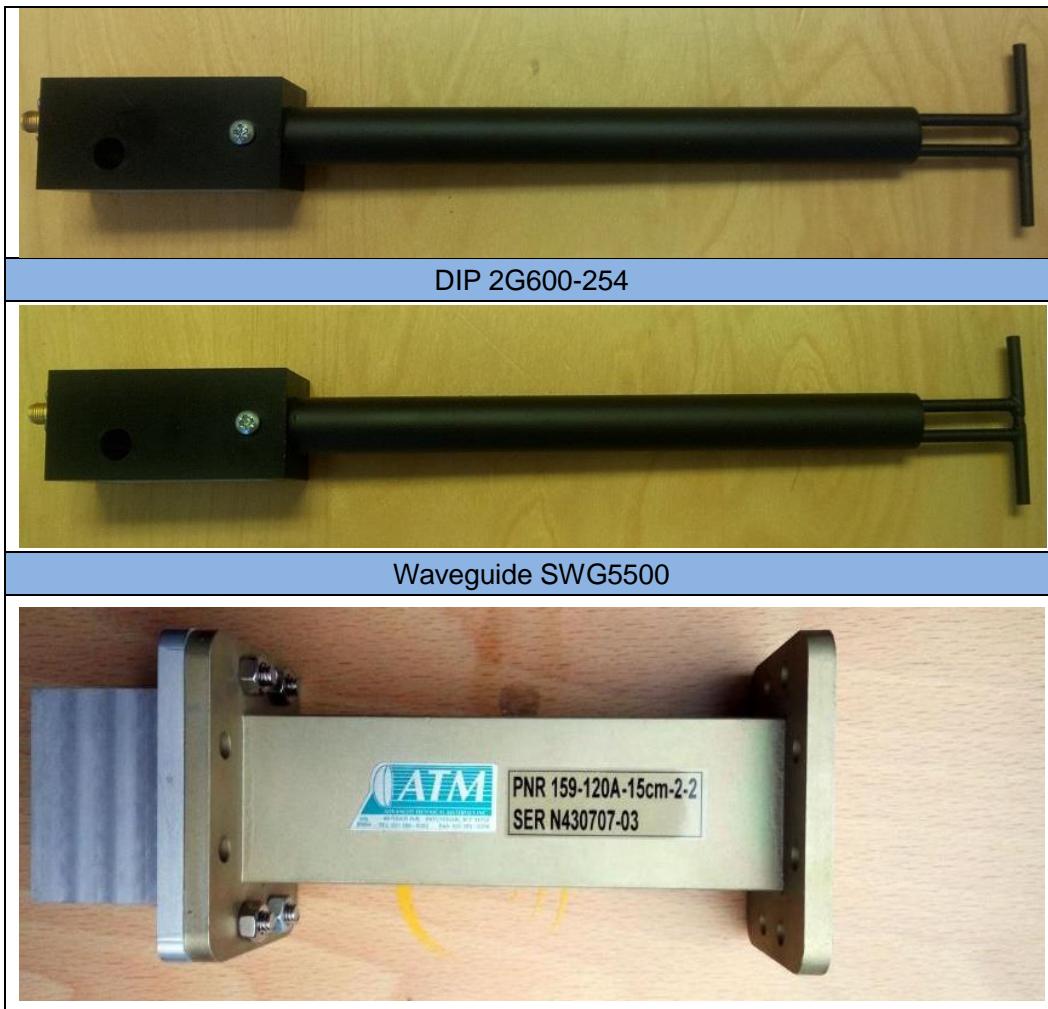
DIP 1G900-249



DIP 2G000-250



DIP 2G450-251



## 2 SIMULATING LIQUID VERIFICATION

Liquid Type	Fre. (MHz)	Meas. Conductivity ( $\sigma$ ) (S/m)	Meas. Permittivity ( $\epsilon$ )	Target Conductivity ( $\sigma$ ) (S/m)	Target Permittivity ( $\epsilon$ )	Conductivity Tolerance (%)	Permittivity Tolerance (%)
Head	750	0.90	41.88	0.89	41.94	1.12	-0.14
Body		0.93	56.89	0.96	55.53	-3.12	2.45
Head	835	0.88	42.96	0.90	41.50	-2.22	3.52
Body		0.98	54.27	0.97	55.20	1.03	-1.68
Head	900	0.98	41.01	0.97	41.50	1.03	-1.18
Body		1.08	53.62	1.05	55.00	2.86	-2.51
Head	1800	1.42	38.81	1.40	40.00	1.43	-2.97
Body		1.49	54.35	1.52	53.30	-1.97	1.97
Head	1900	1.43	39.83	1.40	40.00	2.14	-0.43
Body		1.54	54.02	1.52	53.30	1.32	1.35
Head	2000	1.43	38.79	1.40	40.00	2.14	-3.03
Body		1.55	51.51	1.52	53.30	1.97	-3.36
Head	2450	1.81	38.86	1.80	39.20	0.56	-0.87
Body		1.95	52.91	1.95	52.70	0.00	0.40
Head	2600	1.98	38.09	1.96	39.01	1.02	-2.36



Body		2.14	53.39	2.16	52.51	-0.93	1.68
Head	5200	4.62	36.73	4.66	35.99	-0.86	2.06
Body		5.21	50.08	5.30	49.01	-1.70	2.18
Head	5400	4.82	36.22	4.86	35.76	-0.82	1.29
Body		5.53	50.13	5.53	48.74	0.00	2.85
Head	5600	5.13	34.25	5.07	35.53	1.18	-3.60
Body		5.91	49.14	5.77	48.47	2.43	1.38
Head	5800	5.33	34.62	5.27	35.30	1.14	-1.93
Body		6.05	47.54	6.00	48.20	0.83	-1.37



### 3 DIPOLE IMPEDANCE AND RETURN LOSS

The dipoles are designed to have low return loss when presented against a flat phantom at the specified distance. A Vector Network Analyzer was used to perform a return loss measurement on the specific dipole when in the measurement location against the phantom and the distance was specified by the manufacturer with a special, low loss and low relative permittivity spacer.

The impedance was measured at the SMA-connector with the network analyzer.

The measurement of verification with return loss should not deviate by more than 20% and minimum of 20 dB of the return loss, and the impedance (real or imaginary parts) should not deviate by more than 5 Ohms from the previous measurement using network analyzer.

Note:

The "Previous Meas." in the following table refer to dipoles or other equivalent RF sources calibration reports.

### 3.1 DIP 0G750

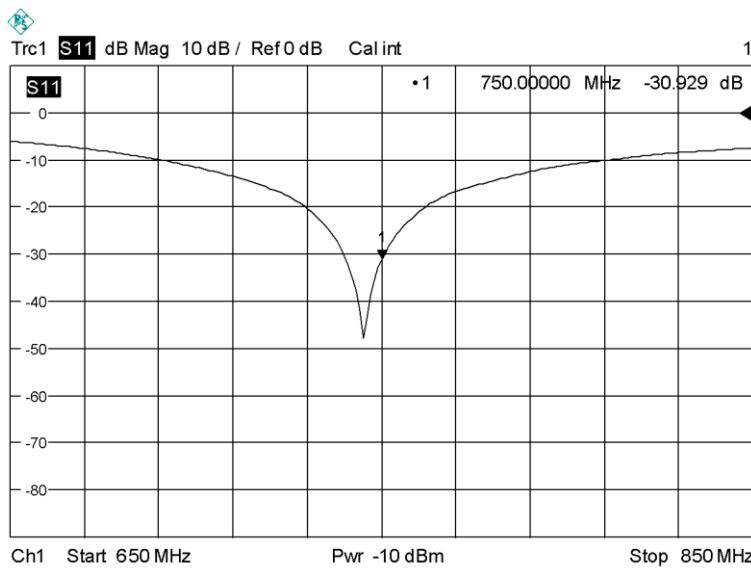
#### RETURN LOSS AND IMPEDANCE IN HEAD LIQUID

Meas. Results	Current Meas.	Previous Meas.	Max. Deviation
Return Loss (dB)	-23.75	-24.73	3.96 %
Impedance	$52.9 \Omega - 1.5 j\Omega$	$56.1 \Omega - 1.3 j\Omega$	$3.2 \Omega$ (Real part)
Return Loss			
<p>Trc1 S11 dB Mag 10 dB / Ref 0 dB Cal 1</p> <p>S11</p> <p>Ch1 Start 650 MHz Pwr -10 dBm Stop 850 MHz</p>			
Impedance			
<p>Trc1 S11 Smith Ref 1 U Cal int 1</p> <p>S11</p> <p>750.00000 MHz 52.933 Ω -j1.540 Ω 13.656 nF</p> <p>Ch1 Start 650 MHz Pwr -10 dBm Stop 850 MHz</p>			

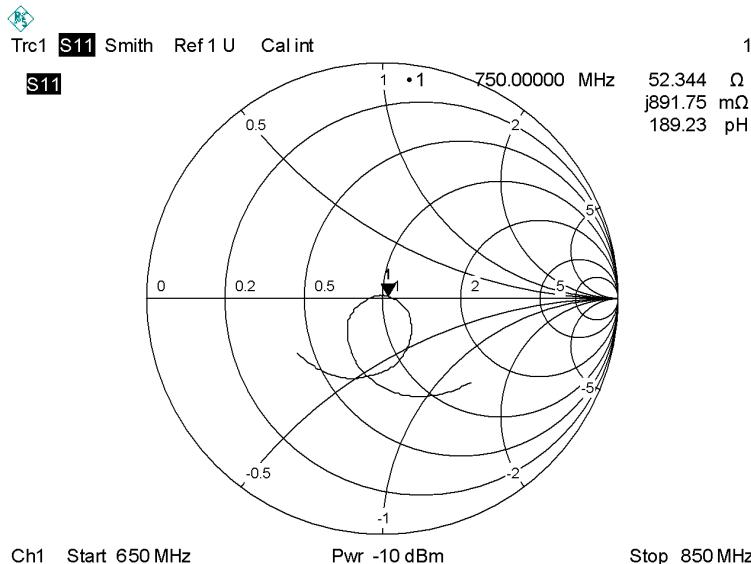
## RETURN LOSS AND IMPEDANCE IN BODY LIQUID

Meas. Results	Current Meas.	Previous Meas.	Max. Deviation
Return Loss (dB)	-30.93	-27.47	12.6 %
Impedance	$52.3 \Omega + 0.9 j\Omega$	$55.8 \Omega + 2.6 j\Omega$	$3.5 \Omega$ (Real part)

### Return Loss



### Impedance



## 3.2 DIP 0G835

### RETURN LOSS AND IMPEDANCE IN HEAD LIQUID

Meas. Results	Current Meas.	Previous Meas.	Max. Deviation
Return Loss (dB)	-27.10	-25.89	4.67 %
Impedance	$53.0 \Omega + 2.3 j\Omega$	$55.0 \Omega + 0.7 j\Omega$	$2.0 \Omega$ (Real part)
Return Loss			
Impedance			

## RETURN LOSS AND IMPEDANCE IN BODY LIQUID

Meas. Results	Current Meas.	Previous Meas.	Max. Deviation
Return Loss (dB)	-29.29	-27.60	6.12 %
Impedance	$51.0 \Omega + 4.3 j\Omega$	$53.6 \Omega + 2.5 j\Omega$	$2.6 \Omega$ (Real part)
Return Loss			
<p>Trc1 S11 dB Mag 10 dB / Ref 0 dB Cal int</p> <p>S11</p> <p>Ch1 Start 735 MHz      Pwr -10 dBm      Stop 935 MHz</p>			
Impedance			
<p>Trc1 S11 Smith Ref 1 U Cal int</p> <p>S11</p> <p>1 •1 835.00000 MHz 51.039 Ω j4.332 Ω 825.73 pH</p> <p>Ch1 Start 735 MHz      Pwr -10 dBm      Stop 935 MHz</p>			

### 3.3 DIP 0G900

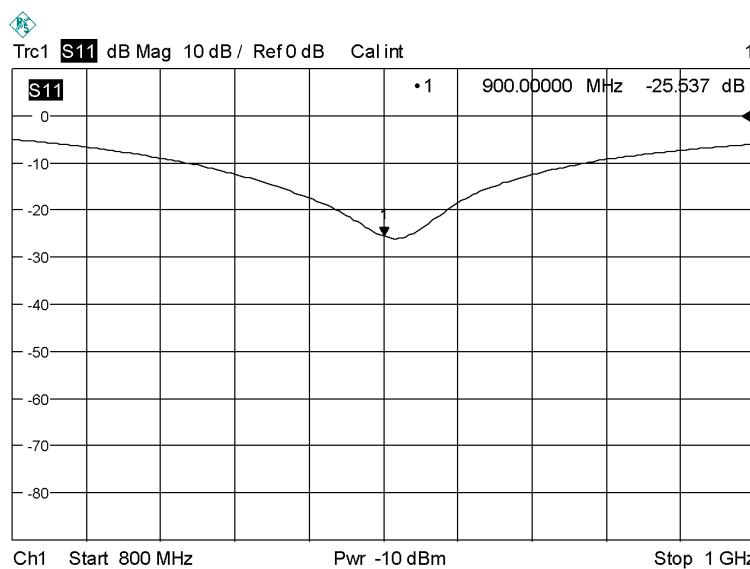
#### RETURN LOSS AND IMPEDANCE IN HEAD LIQUID

Meas. Results	Current Meas.	Previous Meas.	Max. Deviation
Return Loss (dB)	-31.8	-31.9	0.3 %
Impedance	$52.7 \Omega + 2.7 j\Omega$	$53.2 \Omega + 1.4 j\Omega$	$1.3 \Omega$ (Imaginary part)
Return Loss			
<p>Trc1 S11 dB Mag 10 dB / Ref 0 dB Cal</p> <p>S11</p> <p>Ch1 Start 800 MHz Pwr -10 dBm Stop 1 GHz</p>			
Impedance			
<p>Trc1 S11 Smith Ref 1 U Cal int</p> <p>S11</p> <p>Ch1 Start 800 MHz Pwr -10 dBm Stop 1 GHz</p>			

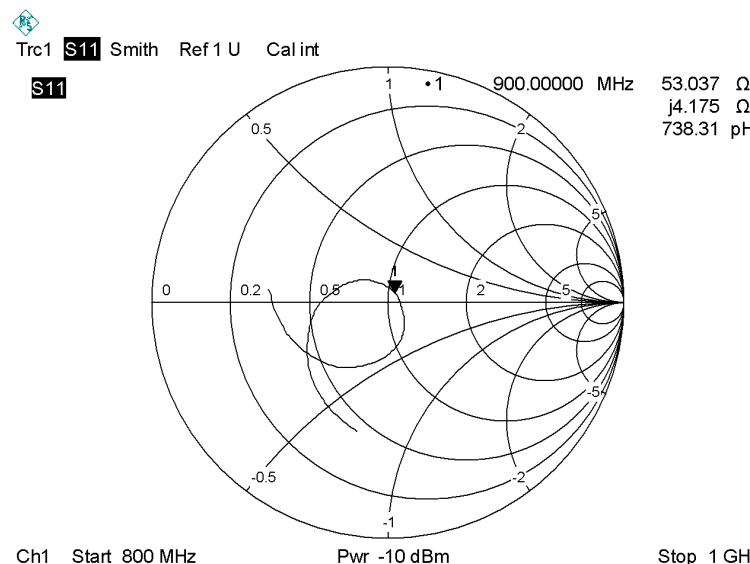
## RETURN LOSS AND IMPEDANCE IN BODY LIQUID

Meas. Results	Current Meas.	Previous Meas.	Max. Deviation
Return Loss (dB)	-25.54	-27.20	6.1 %
Impedance	$53.0 \Omega + 4.2 j\Omega$	$53.2 \Omega + 3.2 j\Omega$	1.0 $\Omega$ (Imaginary part)

### Return Loss

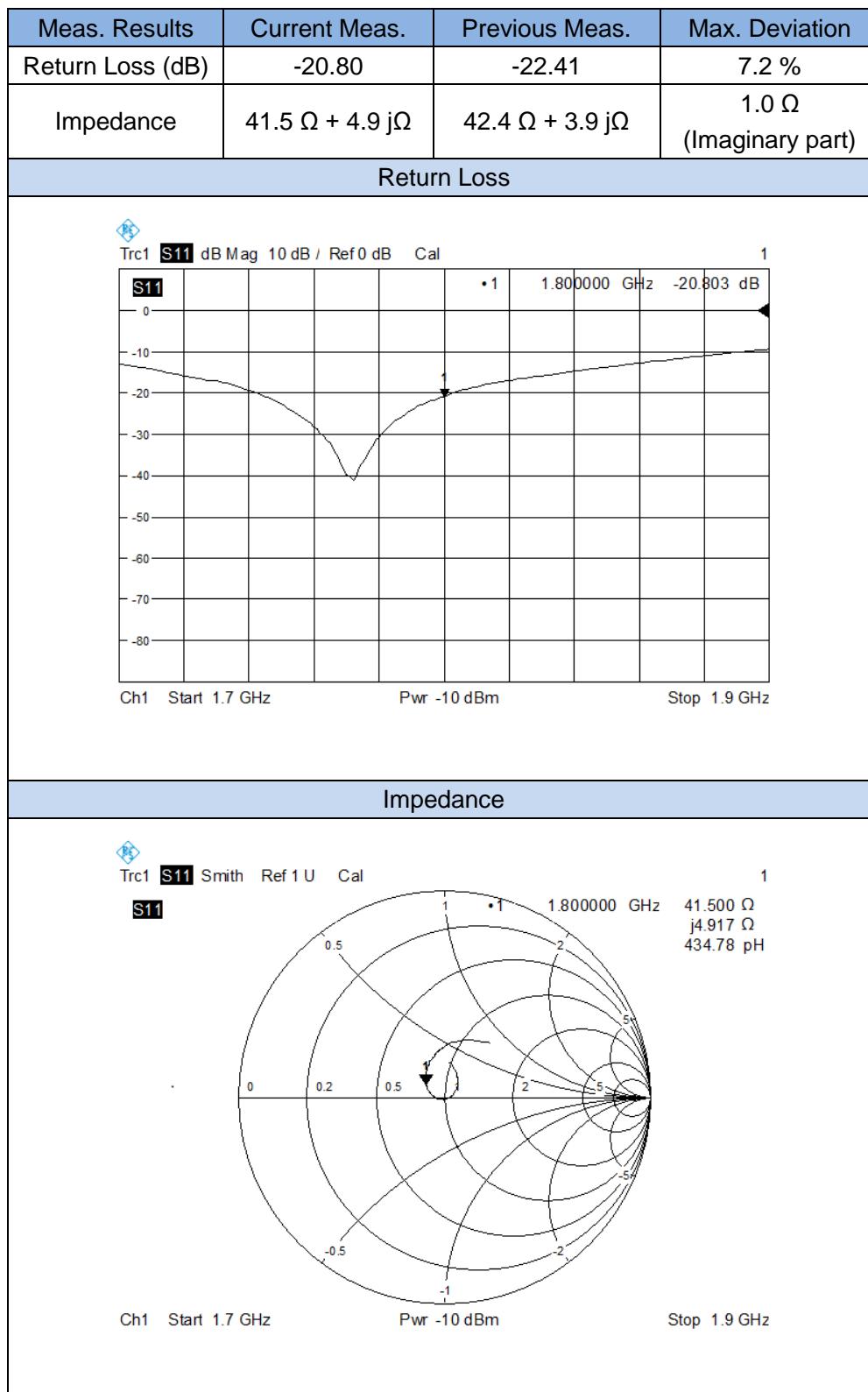


### Impedance



### 3.4 DIP 1G800

#### RETURN LOSS AND IMPEDANCE IN HEAD LIQUID

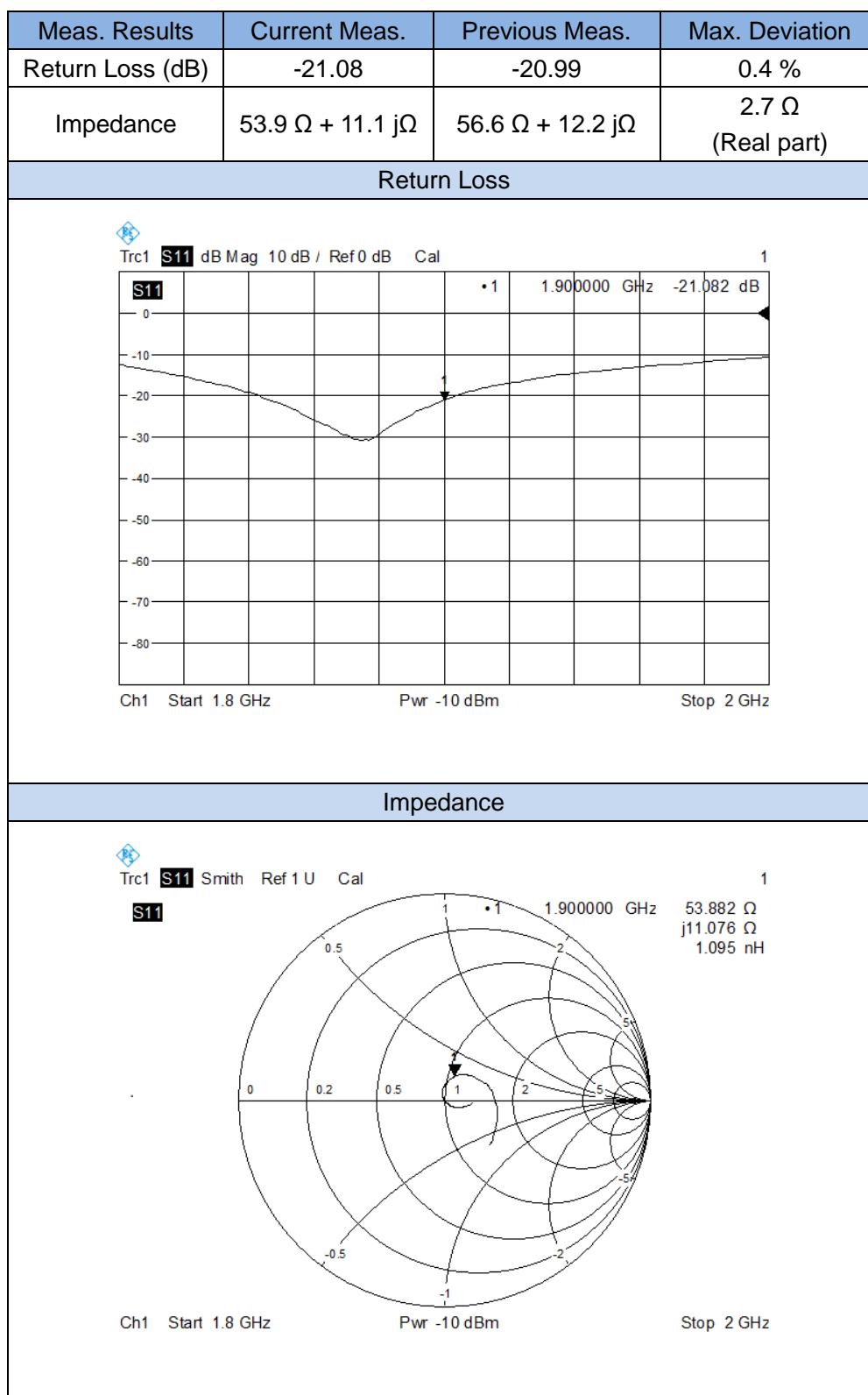


## RETURN LOSS AND IMPEDANCE IN BODY LIQUID

Meas. Results	Current Meas.	Previous Meas.	Max. Deviation
Return Loss (dB)	-22.00	-22.09	0.4 %
Impedance	$42.1 \Omega + 0.3 j\Omega$	$42.9 \Omega + 0.7 j\Omega$	0.8 $\Omega$ (Real part)
Return Loss			
<p>Trc1 S11 dB Mag 10 dB / Ref 0 dB Cal 1 S11 • 1 1.800000 GHz -21.998 dB Ch1 Start 1.7 GHz Pwr -10 dBm Stop 1.9 GHz</p>			
Impedance			
<p>Trc1 S11 Smith Ref 1 U Cal 1 S11 • 1 1.800000 GHz 42.087 Ω j316.76 mΩ 28.008 pH Ch1 Start 1.7 GHz Pwr -10 dBm Stop 1.9 GHz</p>			

### 3.5 DIP 1G900

#### RETURN LOSS AND IMPEDANCE IN HEAD LIQUID



## RETURN LOSS AND IMPEDANCE IN BODY LIQUID

Meas. Results	Current Meas.	Previous Meas.	Max. Deviation
Return Loss (dB)	-20.62	-21.79	5.4 %
Impedance	$50.2 \Omega + 12.6 j\Omega$	$51.0 \Omega + 13.2 j\Omega$	0.8 $\Omega$ (Real part)
Return Loss			
Impedance			

## 3.6 DIP 2G000

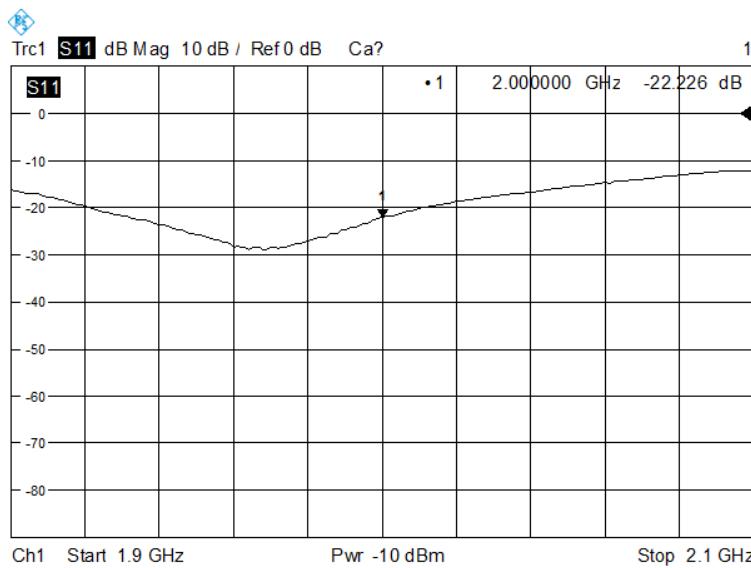
### RETURN LOSS AND IMPEDANCE IN HEAD LIQUID

Meas. Results	Current Meas.	Previous Meas.	Max. Deviation
Return Loss (dB)	-23.91	-25.62	.7%
Impedance	$56.6 \Omega - 0.4 j\Omega$	$54.3 \Omega - 4.1 j\Omega$	$3.7 \Omega$ (Imaginary part)
<b>Return Loss</b>			
<p>Trc1 S11 dB Mag 10 dB / Ref 0 dB Cal</p> <p>S11</p> <p>• 1 2.000000 GHz -23.911 dB</p> <p>Ch1 Start 1.9 GHz Pwr -10 dBm Stop 2.1 GHz</p>			
<b>Impedance</b>			
<p>Trc1 S11 Smith Ref 1 U Cal</p> <p>S11</p> <p>• 1 2.000000 GHz 56.597 Ω -j411.37 mΩ 193.44 pF</p> <p>Ch1 Start 1.9 GHz Pwr -10 dBm Stop 2.1 GHz</p>			

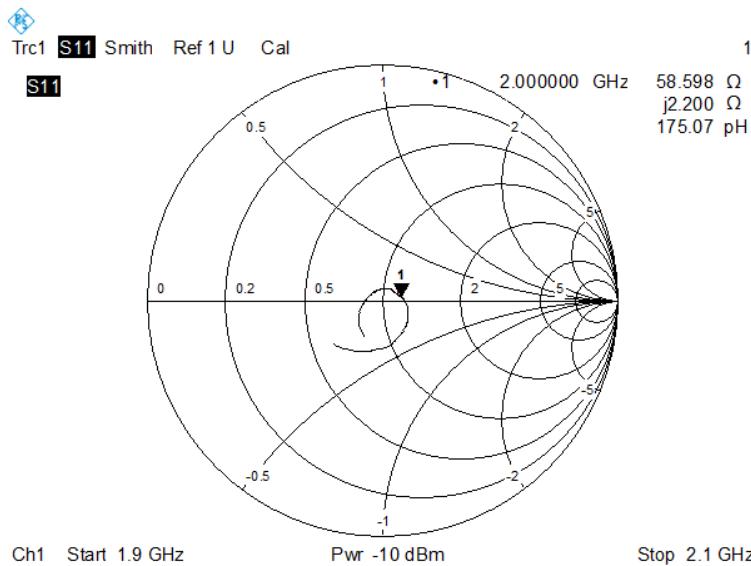
## RETURN LOSS AND IMPEDANCE IN BODY LIQUID

Meas. Results	Current Meas.	Previous Meas.	Max. Deviation
Return Loss (dB)	-22.23	-22.40	0.8 %
Impedance	$58.6 \Omega + 2.20 j\Omega$	$55.7 \Omega + 2.61 j\Omega$	$2.9 \Omega$ (Real part)

### Return Loss

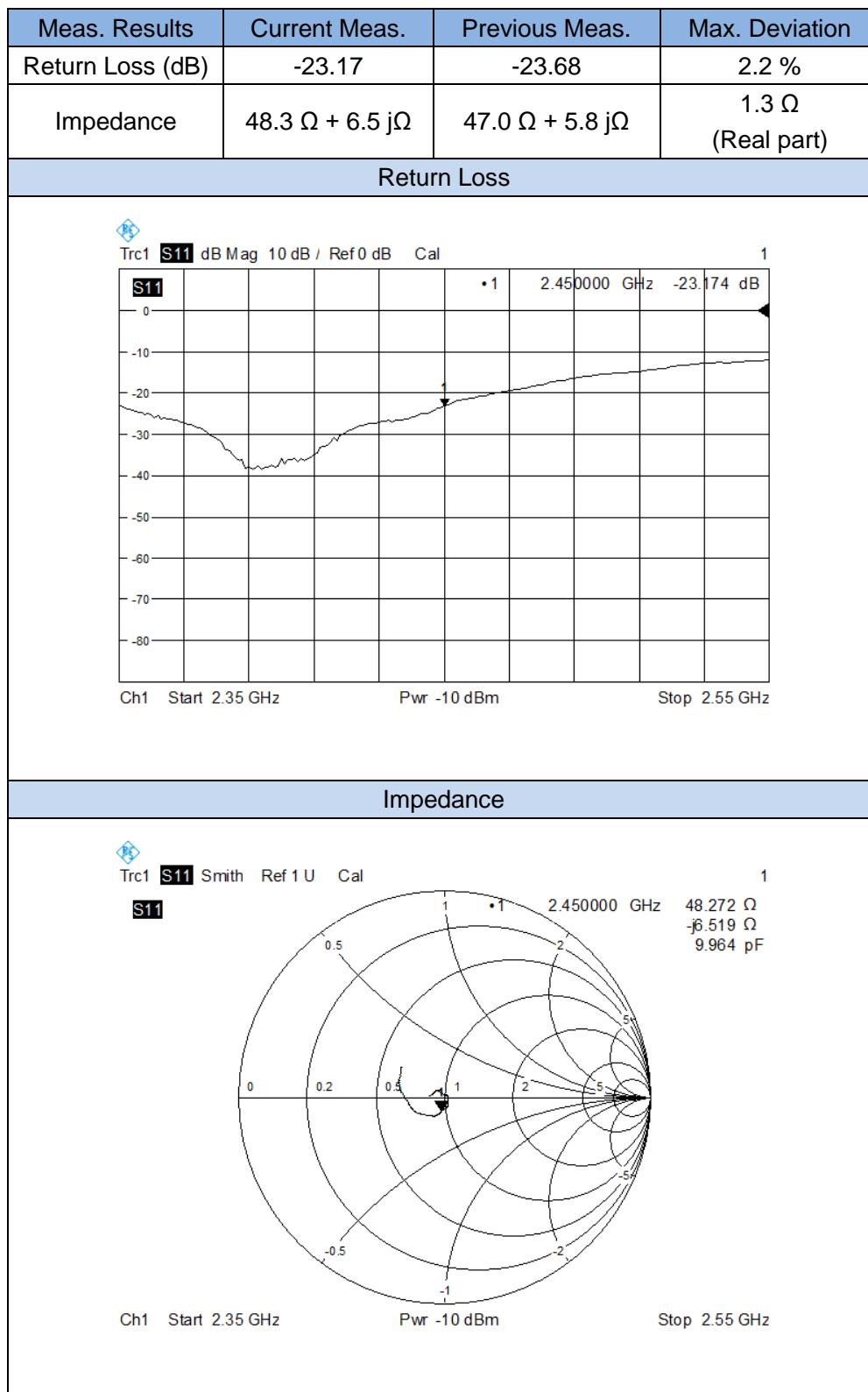


### Impedance



### 3.7 DIP 2G450

#### RETURN LOSS AND IMPEDANCE IN HEAD LIQUID



## RETURN LOSS AND IMPEDANCE IN BODY LIQUID

Meas. Results	Current Meas.	Previous Meas.	Max. Deviation
Return Loss (dB)	-24.06	-24.48	3.5 %
Impedance	$49.8 \Omega - 9.4 j\Omega$	$49.4 \Omega - 5.9 j\Omega$	$3.5 \Omega$ (Imaginary part)
Return Loss			
<p>Trc1 S11 dB Mag 10 dB / Ref 0 dB Cal</p> <p>S11</p> <p>• 1 2.450000 GHz -24.057 dB</p> <p>Ch1 Start 2.35 GHz Pwr -10 dBm Stop 2.55 GHz</p>			
.0			
Impedance			
<p>Trc1 S11 Smith Ref 1 U Cal</p> <p>S11</p> <p>• 1 2.450000 GHz 49.816 Ω -9.416 Ω 6.899 pF</p> <p>Ch1 Start 2.35 GHz Pwr -10 dBm Stop 2.55 GHz</p>			

### 3.8 DIP 2G600

#### RETURN LOSS AND IMPEDANCE IN HEAD LIQUID

Meas. Results	Current Meas.	Previous Meas.	Max. Deviation
Return Loss (dB)	-21.11	-20.83	1.34 %
Impedance	$50.2 \Omega + 8.9 j\Omega$	$51.0 \Omega + 11.4 j\Omega$	$2.5 \Omega$ (Imaginary part)
Return Loss			
<p>Trc1 S11 dB Mag 10 dB / Ref 0 dB Cal</p> <p>S11 •1 2.60000 GHz -21.113 dB</p> <p>Ch1 Start 2.5 GHz Pwr -10 dBm Stop 2.7 GHz</p>			
Impedance			
<p>Trc1 S11 Smith Ref 1 U Cal</p> <p>S11 1 2.45000 GHz 50.177 Ω -j8.938 Ω 7.268 pF</p> <p>Ch1 Start 2.35 GHz Pwr -10 dBm Stop 2.55 GHz</p>			

## RETURN LOSS AND IMPEDANCE IN BODY LIQUID

Meas. Results	Current Meas.	Previous Meas.	Max. Deviation
Return Loss (dB)	-22.31	-21.11	5.7 %
Impedance	$46.7 \Omega + 12.4 j\Omega$	$47.6 \Omega + 11.1 j\Omega$	$1.3 \Omega$ (Imaginary part)
Return Loss			
<p>Trc1 S11 dB Mag 10 dB / Ref 0 dB Cal</p> <p>S11</p> <p>•1 2.600000 GHz -22.312 dB</p> <p>Ch1 Start 2.5 GHz Pwr -10 dBm Stop 2.7 GHz</p>			
Impedance			
<p>Trc1 S11 Smith Ref 1 U Cal</p> <p>S11</p> <p>1 2.600000 GHz 46.719 Ω j12.383 Ω 758.02 pH</p> <p>Ch1 Start 2.5 GHz Pwr -10 dBm Stop 2.7 GHz</p>			

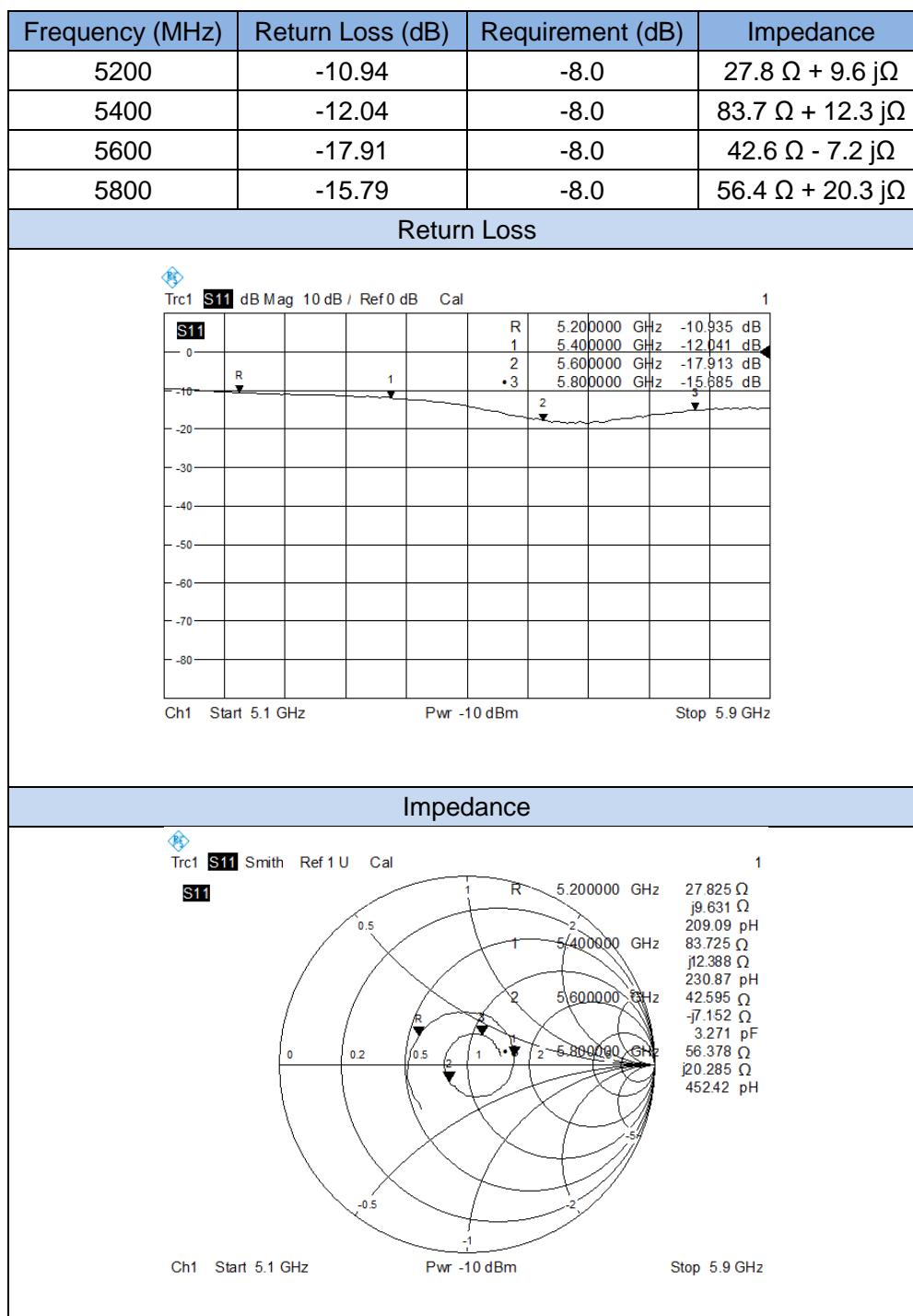
## 4 WAVEGUIDE IMPEDANCE AND RETURN LOSS

The waveguide are designed to have low return loss when presented against a flat phantom at the specified distance. A Vector Network Analyzer was used to perform a return loss measurement on the specific waveguide when in the measurement location against the phantom and the distance was specified by the manufacturer with a special, low loss and low relative permittivity spacer.

The impedance was measured at the SMA-connector with the network analyzer.

### 4.1 SWG5500

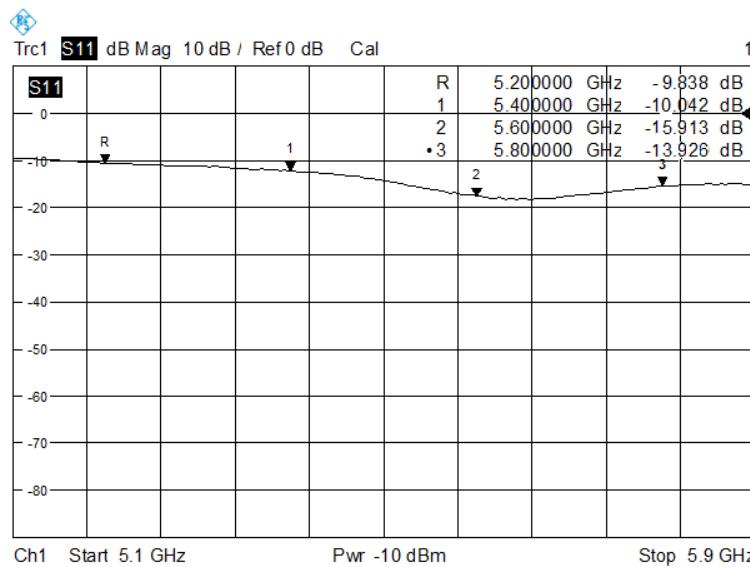
#### RETURN LOSS AND IMPEDANCE IN HEAD LIQUID



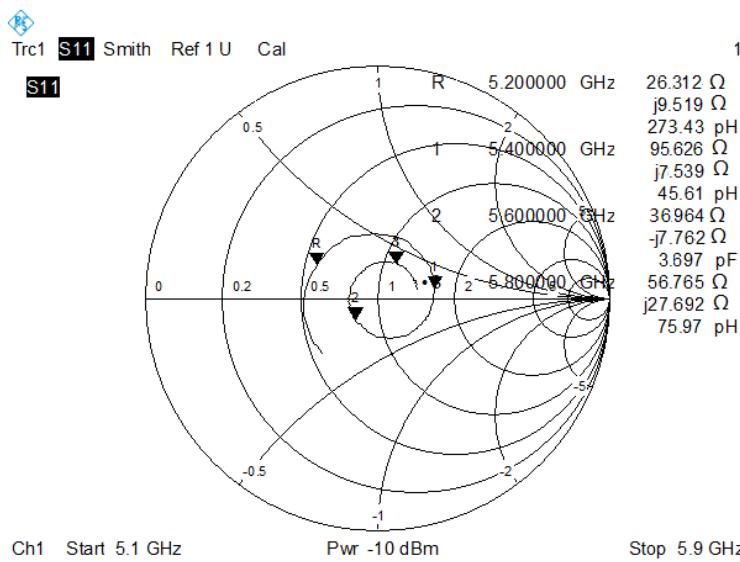
## RETURN LOSS AND IMPEDANCE IN BODY LIQUID

Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
5200	-9.84	-8.0	$26.3 \Omega + 9.5 j\Omega$
5400	-10.04	-8.0	$95.6 \Omega + 7.5 j\Omega$
5600	-15.91	-8.0	$37.0 \Omega - 7.8 j\Omega$
5800	-13.93	-8.0	$56.8 \Omega + 27.7 j\Omega$

Return Loss

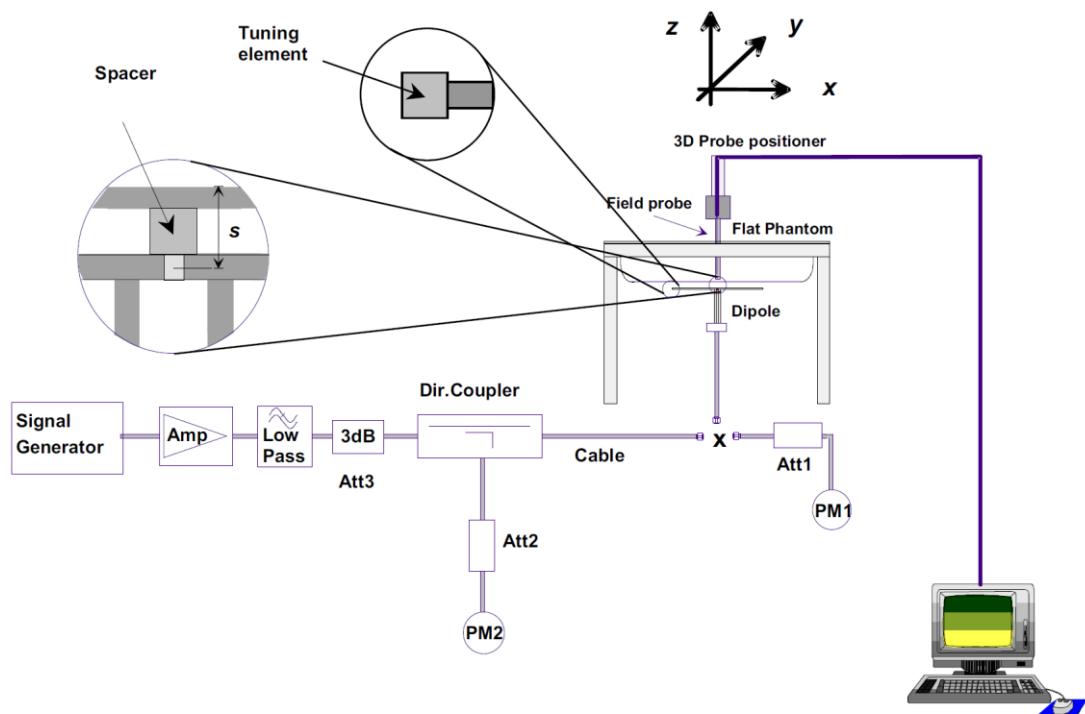


Impedance



## 5 VALIDATION MEASUREMENT

The IEEE Std. 1528, FCC KDBs and CEI/IEC 62209 standards state that the system validation measurements must be performed using a reference dipole meeting the fore mentioned return loss and mechanical dimension requirements. The validation measurement must be performed against a liquid filled flat phantom, with the phantom constructed as outlined in the fore mentioned standards. Per the standards, the dipole shall be positioned below the bottom of the phantom, with the dipole length centered and parallel to the longest dimension of the flat phantom, with the top surface of the dipole at the described distance from the bottom surface of the phantom.



## 5.1 Dipole and Waveguide SAR Validation Measurement Result

Freq. (MHz)	Liquid Type	Power (mW)	1 g Measured SAR (W/kg)	Normalized Measured SAR (W/kg)	10 g Measured SAR (W/kg)	Normalized Measured SAR (W/kg)	1 g Targeted SAR (W/kg)	Tolerance (%)	10 g Targeted SAR (W/kg)	Tolerance (%)
750	Head	100	0.864	8.64	0.573	5.73	8.49	1.77	5.55	3.24
	Body	100	0.865	8.65	0.589	5.89	8.49	1.88	5.55	6.13
835	Head	100	0.977	9.77	0.603	6.03	9.56	2.20	6.22	-3.05
	Body	100	1.009	10.09	0.661	6.61	9.56	5.54	6.22	6.27
900	Head	100	1.086	10.86	0.723	7.23	10.9	-0.37	6.99	3.43
	Body	100	1.140	11.40	0.752	7.52	10.9	4.59	6.99	7.58
1800	Head	100	3.888	38.88	1.966	19.66	38.40	1.25	20.10	-2.19
	Body	100	3.923	39.23	1.992	19.92	38.40	2.16	20.10	-0.90
1900	Head	100	3.902	39.02	1.922	19.22	39.70	-1.71	20.50	-6.24
	Body	100	3.951	39.51	2.010	20.10	39.70	-0.48	20.50	-1.95
2000	Head	100	4.020	40.20	2.063	20.63	41.10	-2.19	21.10	-2.23
	Body	100	4.215	42.15	2.153	21.53	41.10	2.55	21.10	2.04
2450	Head	100	5.303	53.03	2.479	24.79	52.40	1.20	24.00	3.29
	Body	100	5.103	51.03	2.448	24.48	52.40	-2.61	24.00	2.00
2600	Head	100	5.337	53.37	2.507	25.07	55.30	-3.49	24.60	1.91
	Body	100	5.168	51.68	2.375	23.75	55.30	-6.55	24.60	-3.46
5200	Head	100	15.372	153.72	5.458	54.58	159.00	-3.32	56.90	-4.08
	Body	100	15.227	152.27	5.328	53.28	159.00	-4.23	56.90	-6.36
5400	Head	100	15.893	158.93	5.522	55.22	166.40	-4.49	58.43	-5.49
	Body	100	15.760	157.60	5.602	56.02	166.40	-5.29	58.43	-4.12
5600	Head	100	16.458	164.58	5.788	57.88	173.80	-5.30	59.97	-3.49
	Body	100	15.892	158.92	5.643	56.43	173.80	-8.56	59.97	-5.90
5800	Head	100	17.698	176.98	5.986	59.86	181.20	-2.33	61.50	-2.67
	Body	100	16.971	169.71	5.843	58.43	181.20	-6.34	61.50	-4.99

## 5.2 DIP 0G750

### 5.2.1 Dipole 750 MHz Validation Measurement for Head Tissue

## System Performance Check Data(750 MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

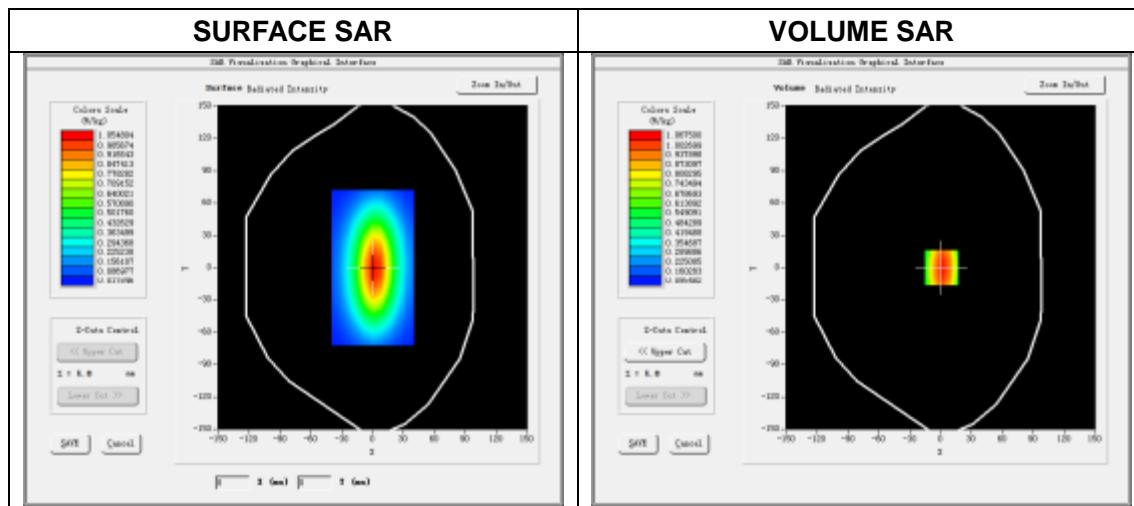
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2017.03.01

Measurement duration: 13 minutes 33 seconds

### Experimental conditions.

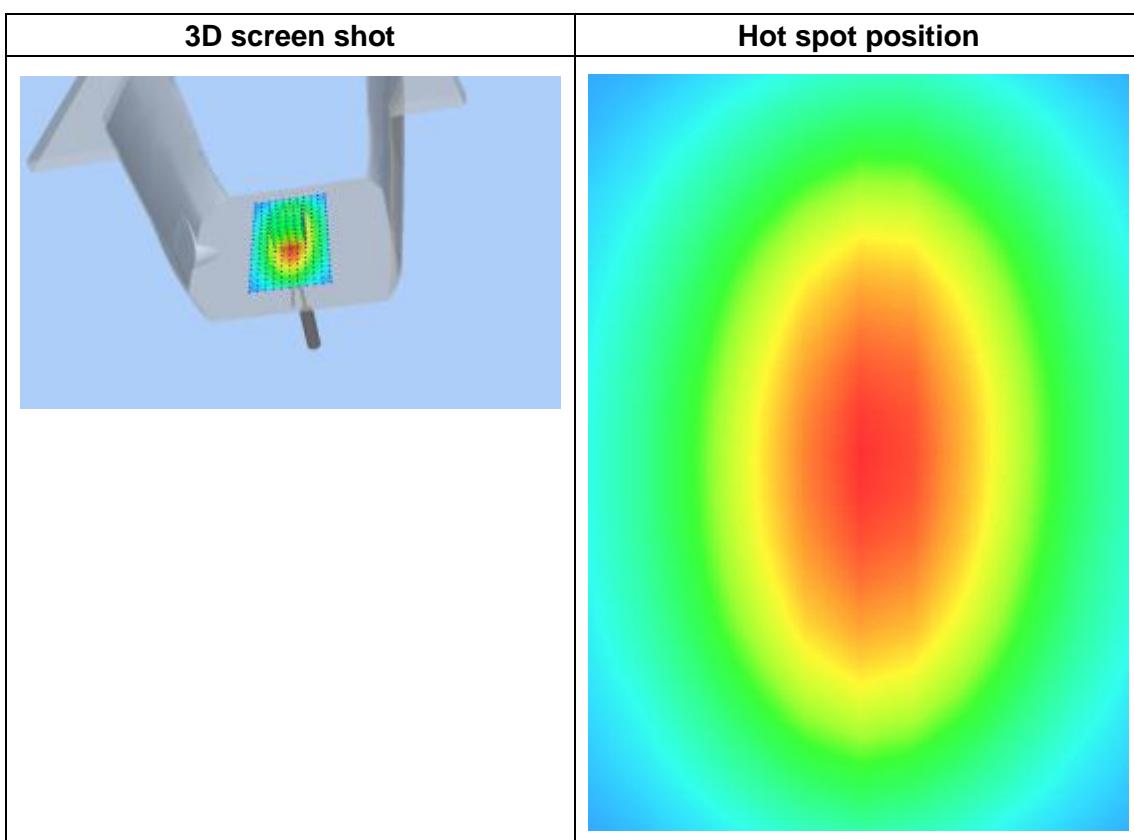
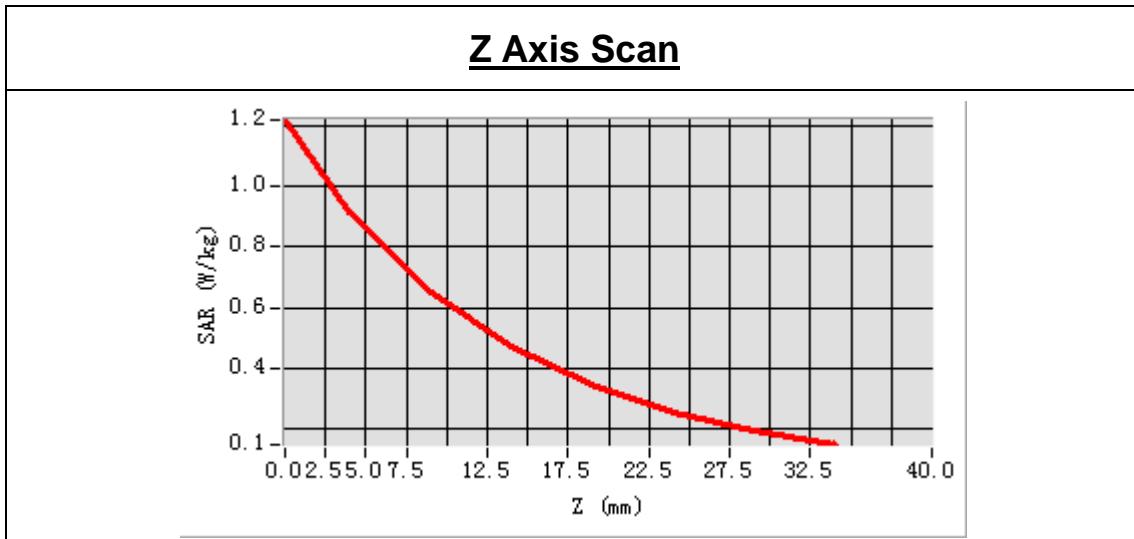
<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	750MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	750MHz
<b>Relative permittivity (real part)</b>	41.882519
<b>Conductivity (S/m)</b>	0.898232
<b>Power drift (%)</b>	-2.200000
<b>Ambient Temperature:</b>	21.9°C
<b>Liquid Temperature:</b>	20.8°C
<b>ConvF:</b>	1.81
<b>Crest factor:</b>	1:1



Maximum location: X=1.00, Y=0.00

SAR Peak: 1.19 W/kg

SAR 10g (W/Kg)	0.572936
SAR 1g (W/Kg)	0.863754



## 5.2.2 Dipole 750 MHz Validation Measurement for Body Tissue

# System Performance Check Data(750 MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

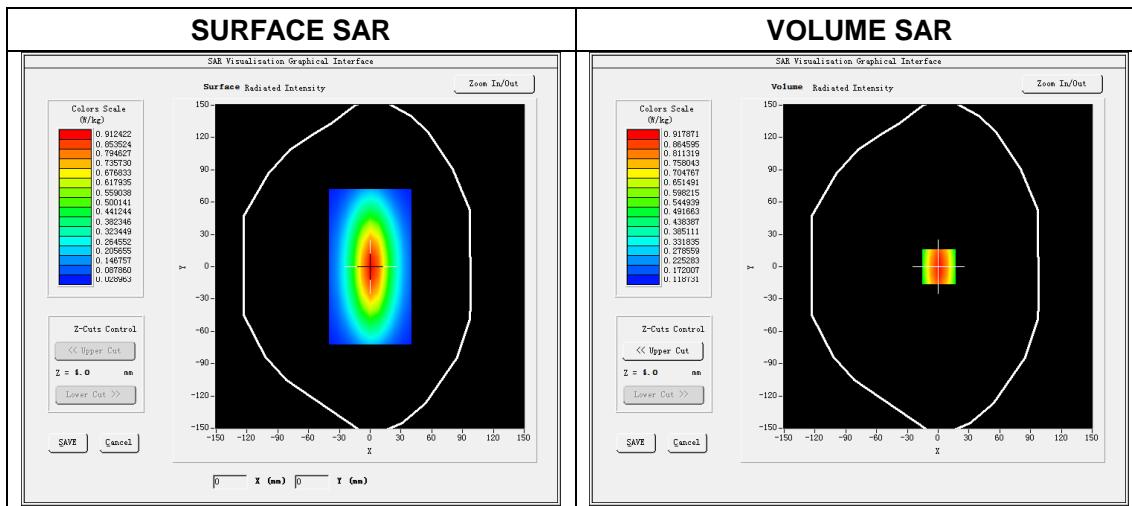
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2017.03.01

Measurement duration: 13 minutes 32 seconds

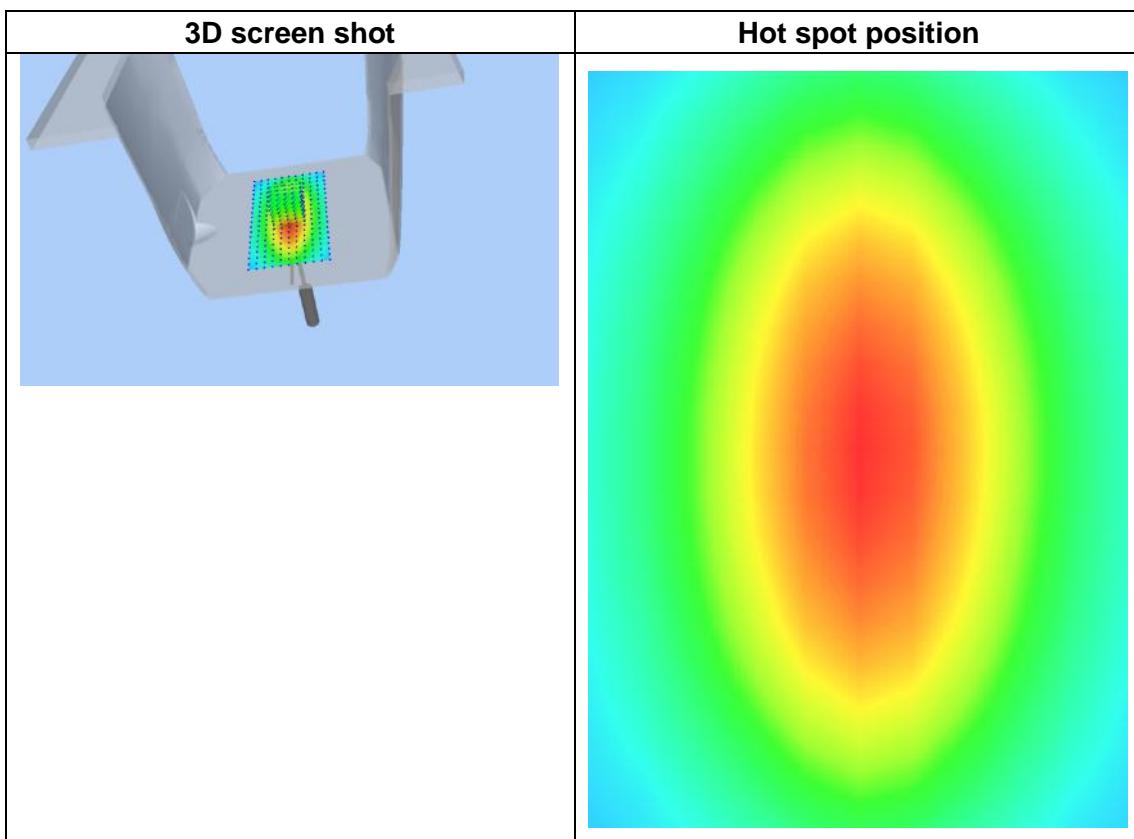
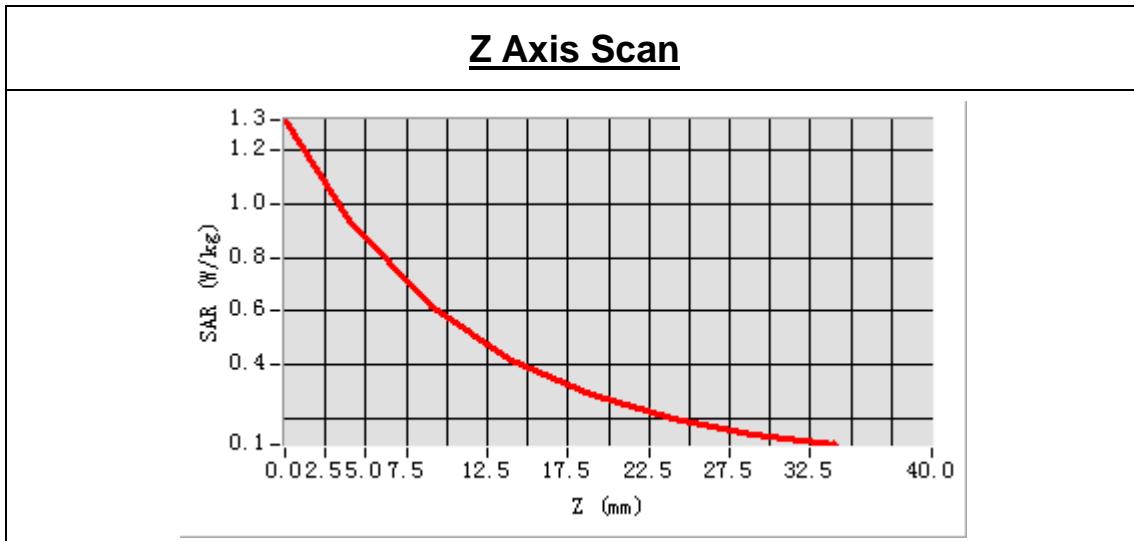
### Experimental conditions.

<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	750MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	750MHz
<b>Relative permittivity (real part)</b>	56.892521
<b>Conductivity (S/m)</b>	0.931288
<b>Power drift (%)</b>	-0.600000
<b>Ambient Temperature:</b>	21.9°C
<b>Liquid Temperature:</b>	20.8°C
<b>ConvF:</b>	1.88
<b>Crest factor:</b>	1:1



Maximum location: X=1.00, Y=0.00  
SAR Peak: 1.29 W/kg

SAR 10g (W/Kg)	0.589147
SAR 1g (W/Kg)	0.865284



## 5.3 DIP 0G835

### 5.3.1 Dipole 835 MHz Validation Measurement for Head Tissue

## System Performance Check Data(835 MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8 mm, dy=8 mm

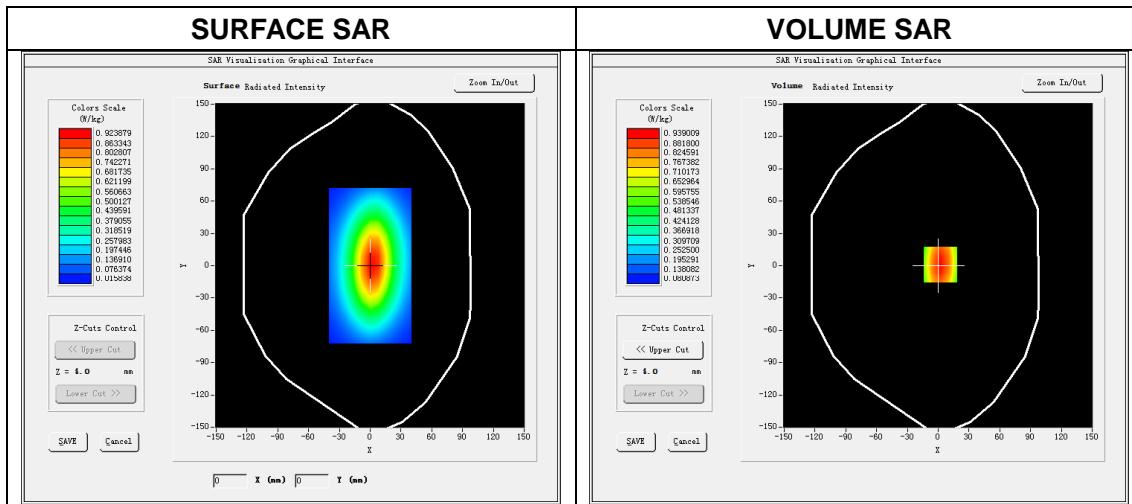
Zoom scan resolution: dx=8 mm, dy=8 mm, dz=5 mm

Date of measurement: 2017.03.01

Measurement duration: 14 minutes 12 seconds

### Experimental conditions.

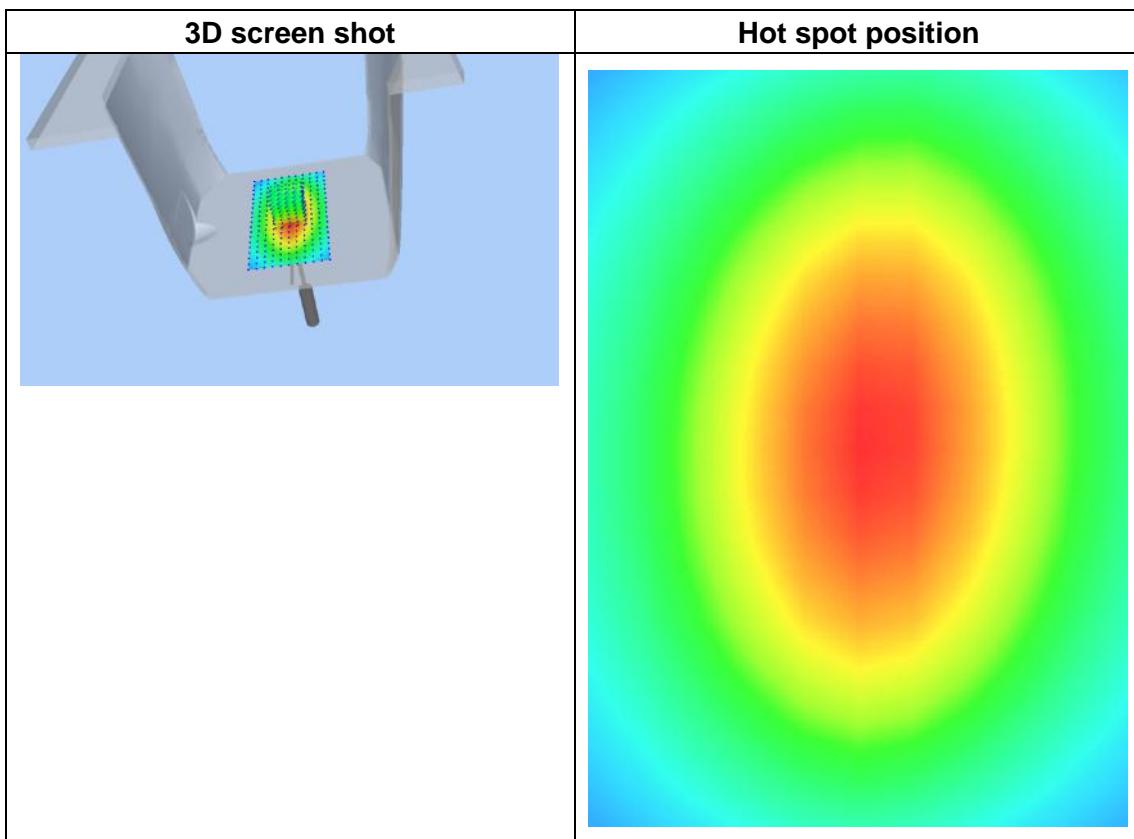
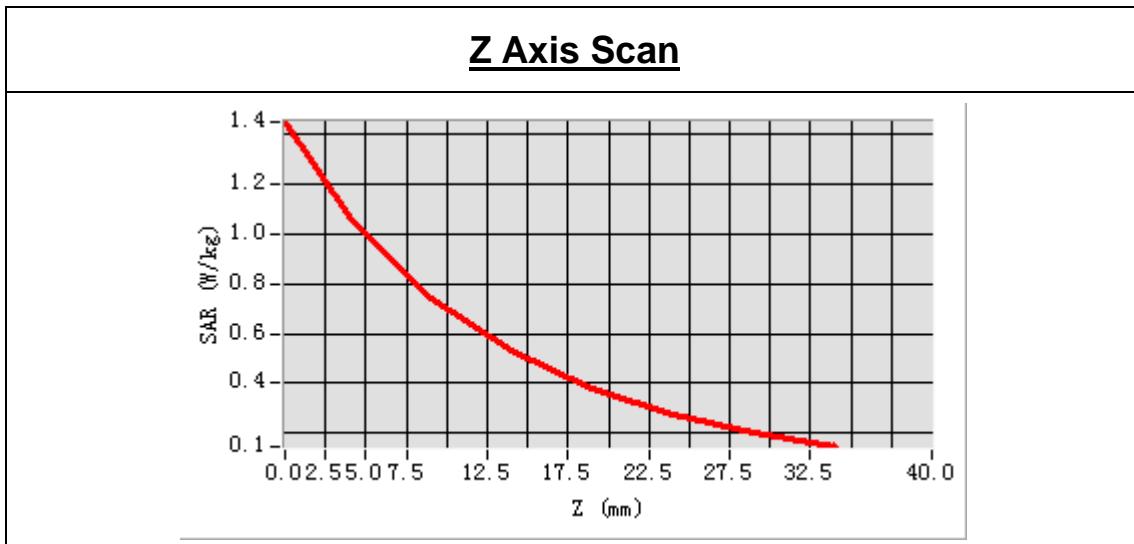
<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	835 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	835.000000
<b>Relative permittivity (real part)</b>	42.956251
<b>Conductivity (S/m)</b>	0.883985
<b>Power drift (%)</b>	-0.350000
<b>Ambient Temperature:</b>	21.6°C
<b>Liquid Temperature:</b>	21.1°C
<b>ConvF:</b>	2.04
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00

SAR Peak: 1.40 W/kg

SAR 10 g (W/Kg)	0.602548
SAR 1 g (W/Kg)	0.976925



### 5.3.2 Dipole 835 MHz Validation Measurement for Body Tissue

## System Performance Check Data(835 MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8 mm,dy=8 mm

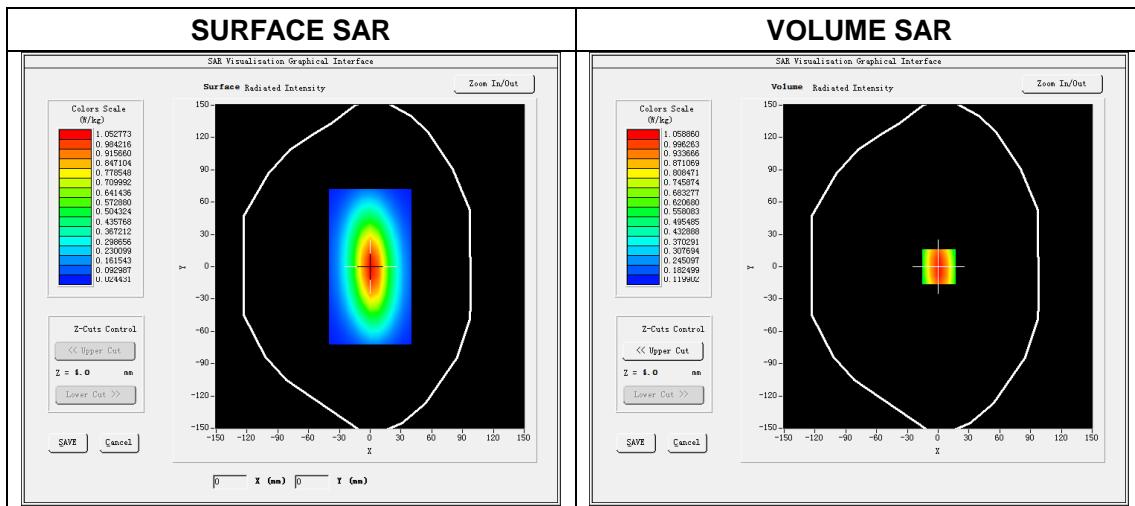
Zoom scan resolution: dx=8 mm, dy=8 mm, dz=5 mm

Date of measurement: 2017.03.01

Measurement duration: 14 minutes 8 seconds

### Experimental conditions.

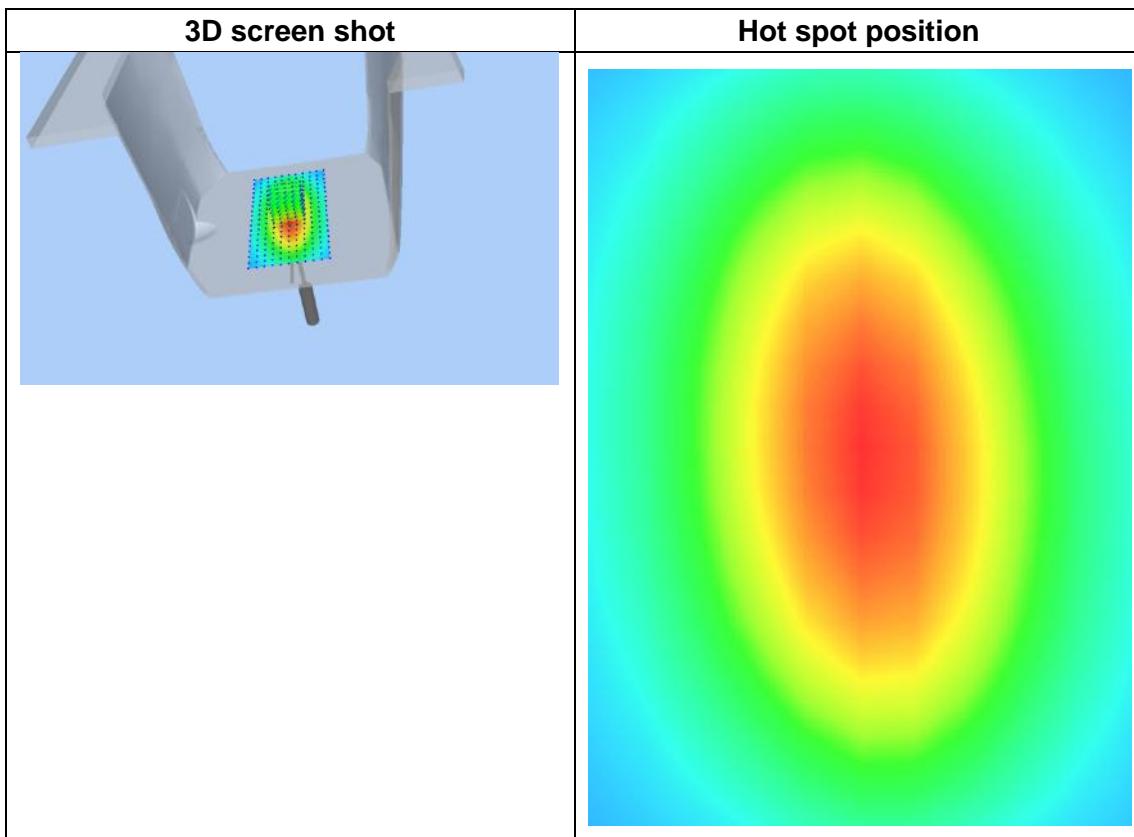
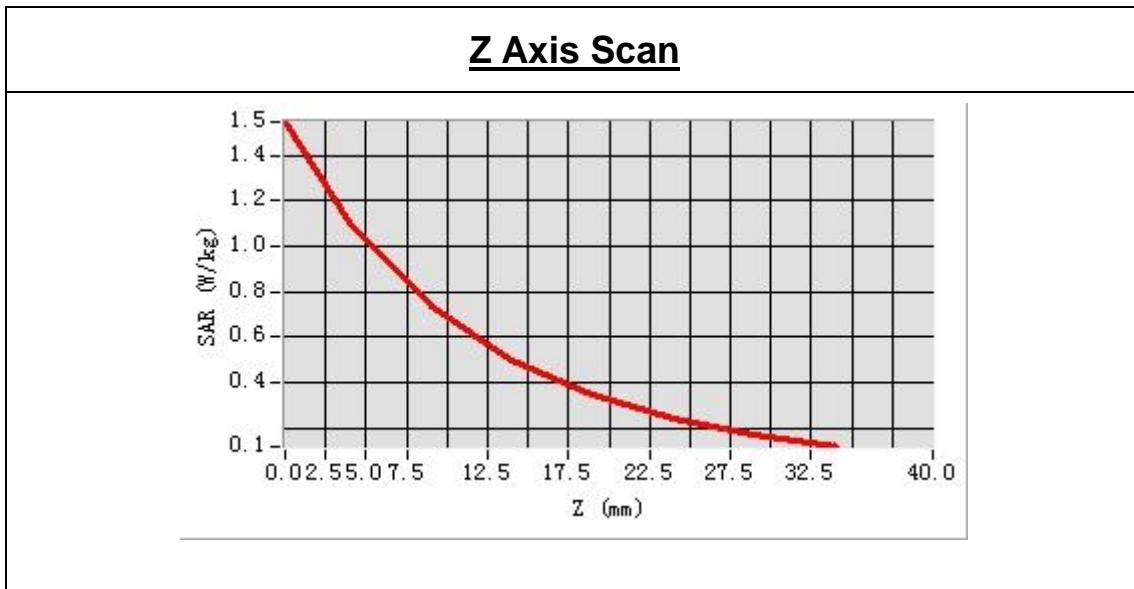
<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	835 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	835.000000
<b>Relative permittivity (real part)</b>	54.269521
<b>Conductivity (S/m)</b>	0.980688
<b>Power drift (%)</b>	0.390000
<b>Ambient Temperature:</b>	21.6°C
<b>Liquid Temperature:</b>	21.1°C
<b>ConvF:</b>	2.12
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00

SAR Peak: 1.46 W/kg

SAR 10 g (W/Kg)	0.661254
SAR 1 g (W/Kg)	1.009362



## 5.4 DIP 0G900

### 5.4.1 Dipole 900 MHz Validation Measurement for Head Tissue

## System Performance Check Data(900 MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8 mm, dy=8 mm

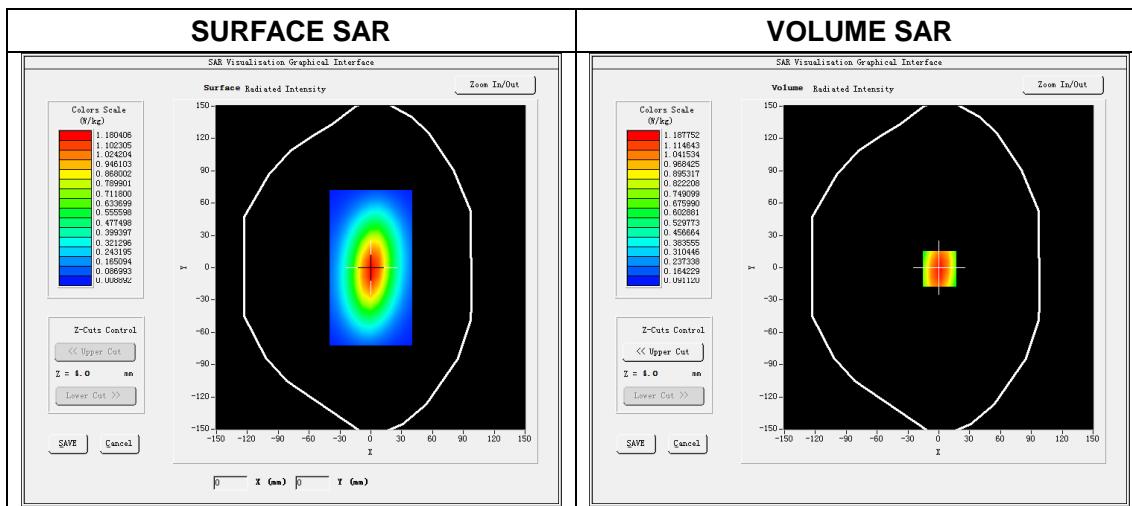
Zoom scan resolution: dx=8 mm, dy=8 mm, dz=5 mm

Date of measurement: 2017.03.01

Measurement duration: 13 minutes 59 seconds

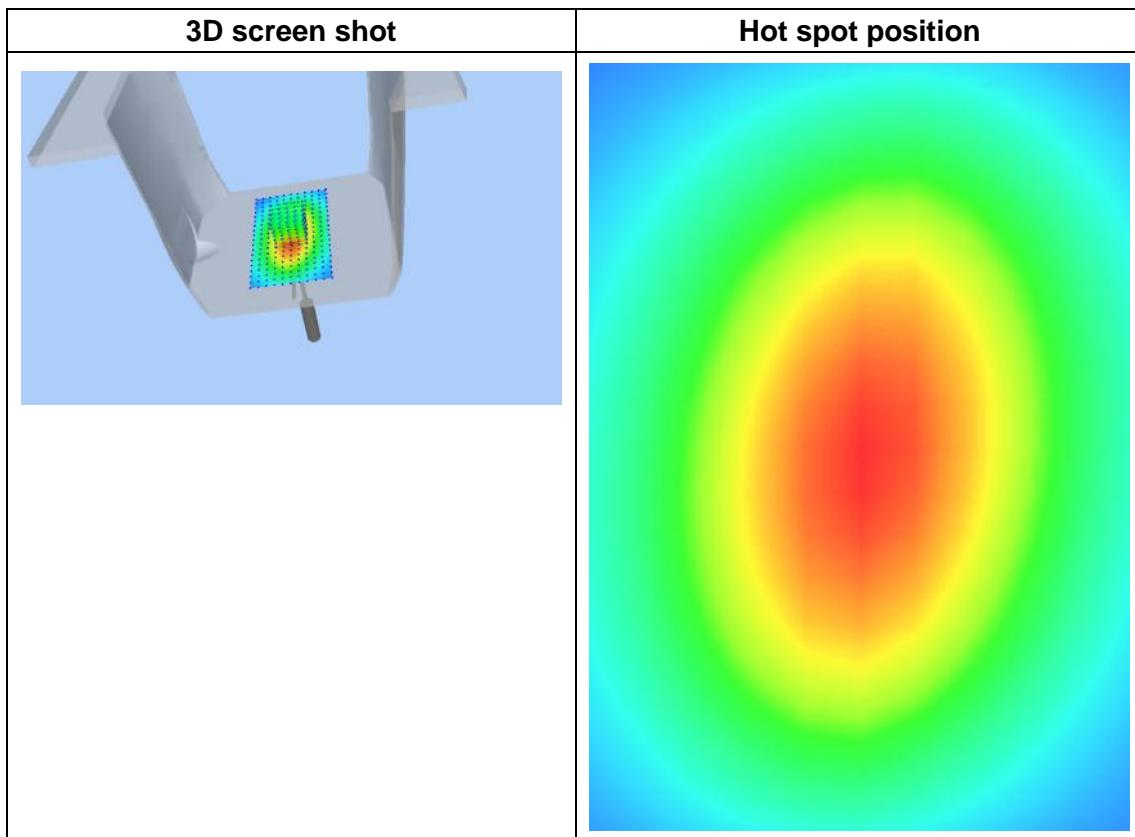
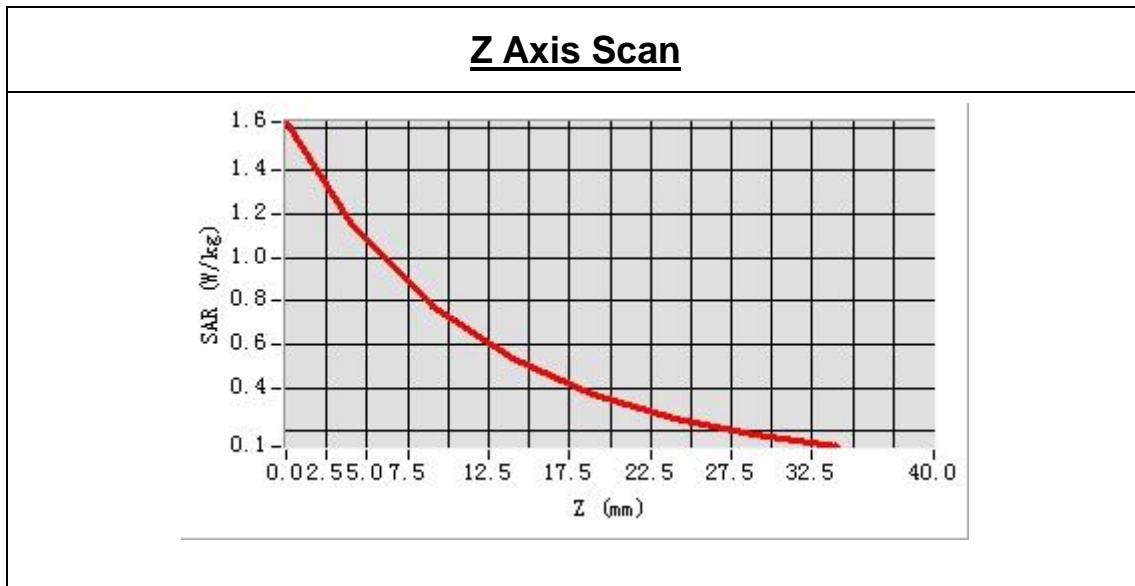
### Experimental conditions.

<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	900 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	900.000000
<b>Relative permittivity (real part)</b>	41.012785
<b>Conductivity (S/m)</b>	0.982695
<b>Power drift (%)</b>	0.240000
<b>Ambient Temperature:</b>	21.9°C
<b>Liquid Temperature:</b>	20.8°C
<b>ConvF:</b>	1.86
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00  
SAR Peak: 1.59 W/kg

SAR 10 g (W/Kg)	0.722569
SAR 1 g (W/Kg)	1.086216



## 5.4.2 Dipole 900 MHz Validation Measurement for Body Tissue

# System Performance Check Data(900 MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8 mm,dy=8 mm

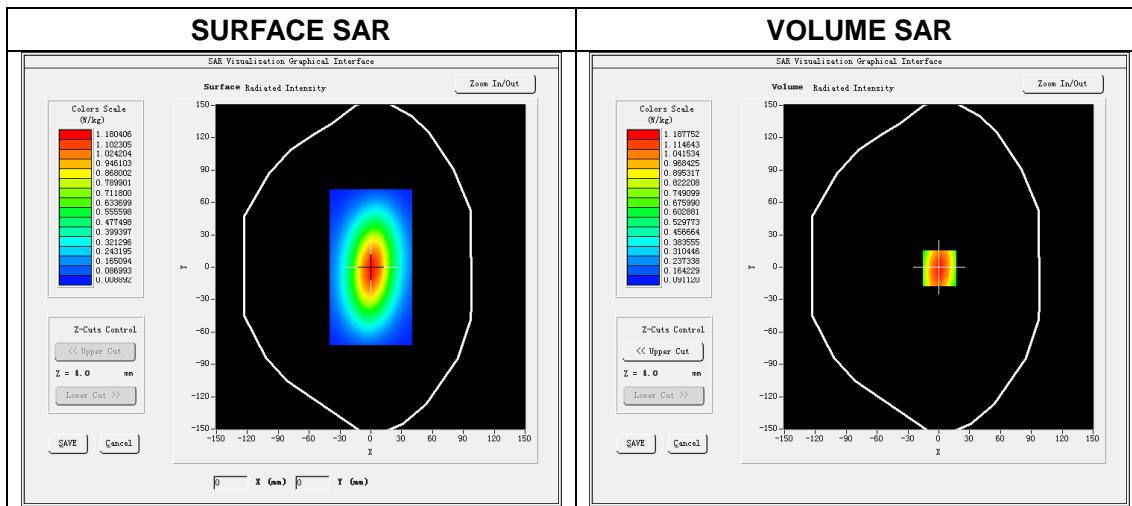
Zoom scan resolution: dx=8 mm, dy=8 mm, dz=5 mm

Date of measurement: 2017.03.01

Measurement duration: 13 minutes 49 seconds

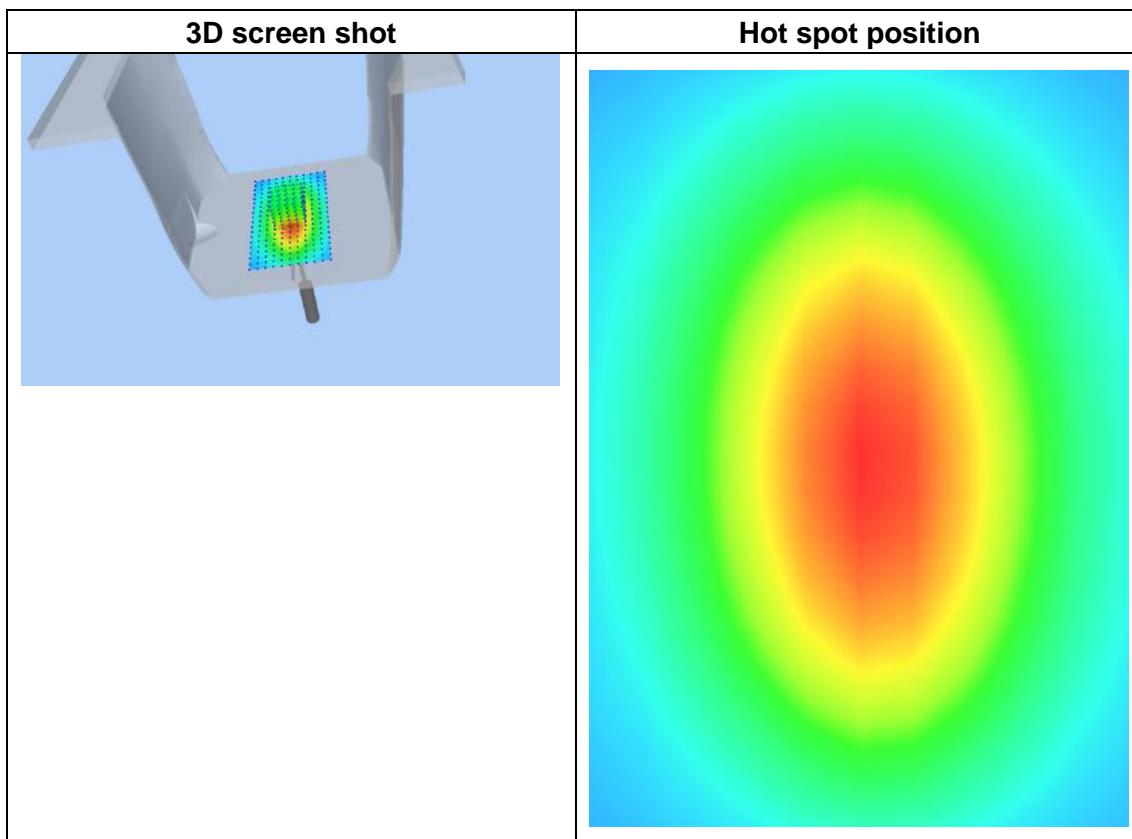
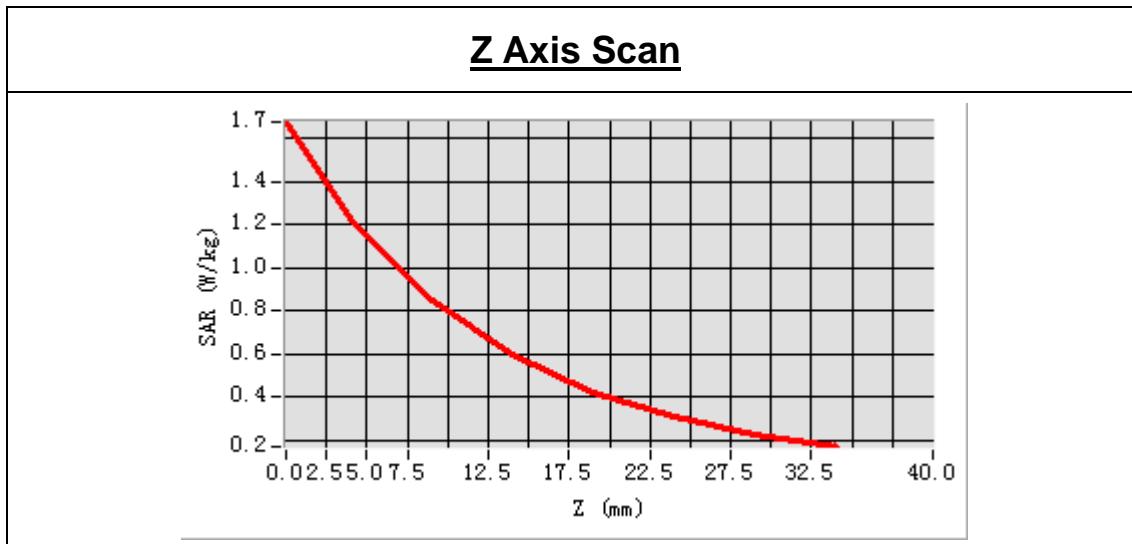
### Experimental conditions.

<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	900 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	900.000000
<b>Relative permittivity (real part)</b>	53.623571
<b>Conductivity (S/m)</b>	1.07252
<b>Power drift (%)</b>	-0.370000
<b>Ambient Temperature:</b>	21.9°C
<b>Liquid Temperature:</b>	20.8°C
<b>ConvF:</b>	1.92
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00  
SAR Peak: 1.69 W/kg

SAR 10 g (W/Kg)	0.752336
SAR 1 g (W/Kg)	1.140385



## 5.5 DIP 1G800

### 5.5.1 Dipole 1800 MHz Validation Measurement for Head Tissue

## System Performance Check Data(1800 MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

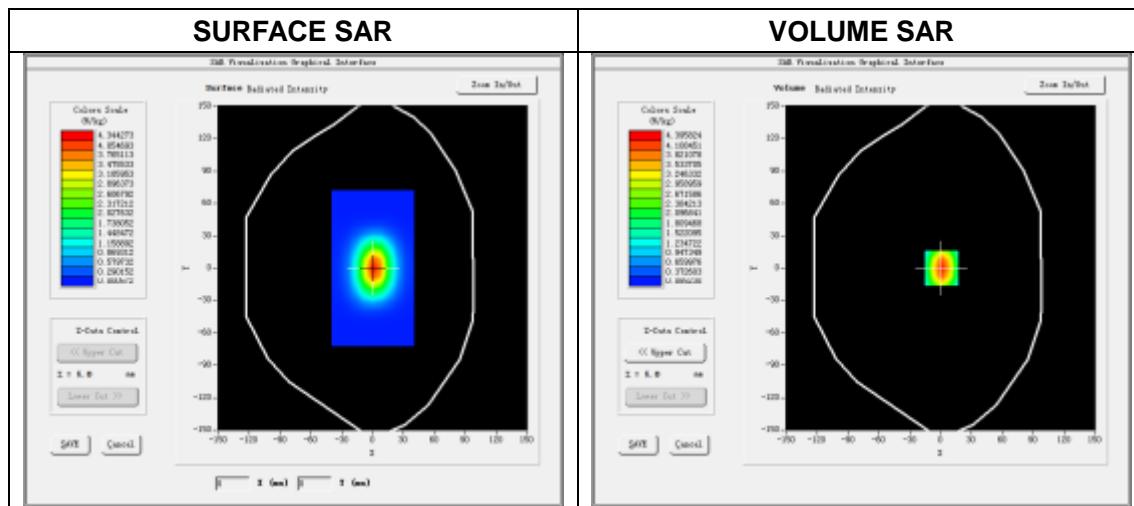
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2017.03.02

Measurement duration: 13 minutes 39 seconds

### Experimental conditions.

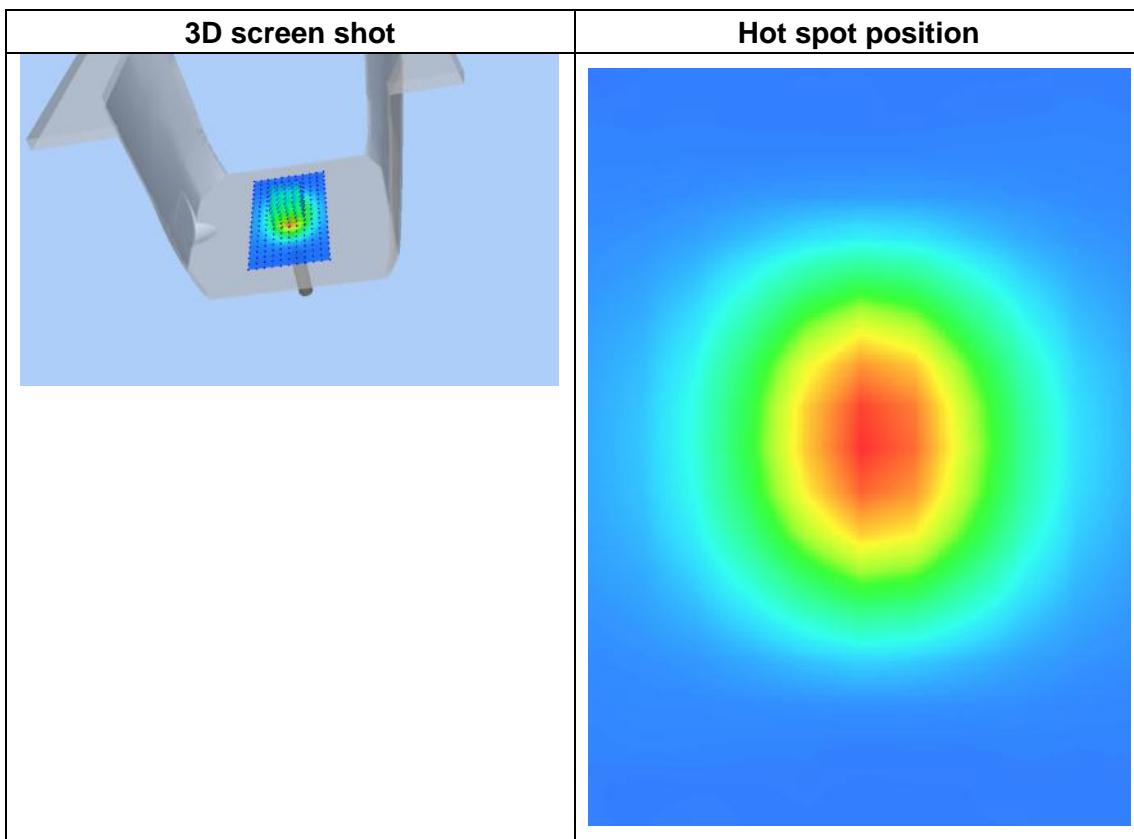
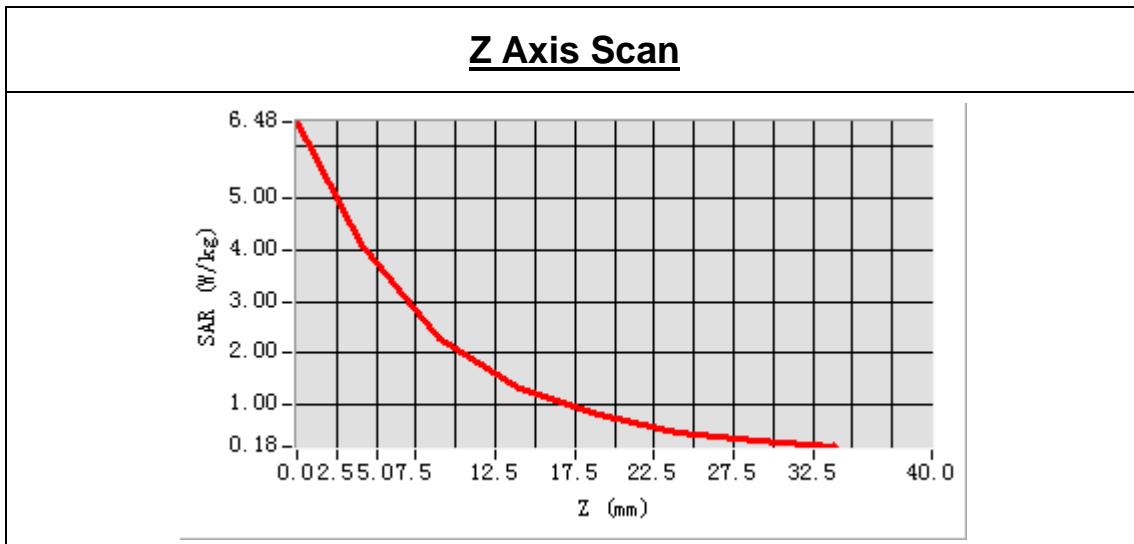
<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	1800MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	1800.000000
<b>Relative permittivity (real part)</b>	38.812571
<b>Conductivity (S/m)</b>	1.422596
<b>Power drift (%)</b>	0.330000
<b>Ambient Temperature:</b>	22.4°C
<b>Liquid Temperature:</b>	21.3°C
<b>ConvF:</b>	2.04
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00

SAR Peak: 6.48 W/kg

SAR 10 g (W/Kg)	1.965521
SAR 1g (W/Kg)	3.887922



## 5.5.2 Dipole 1800 MHz Validation Measurement for Body Tissue

# System Performance Check Data(1800 MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

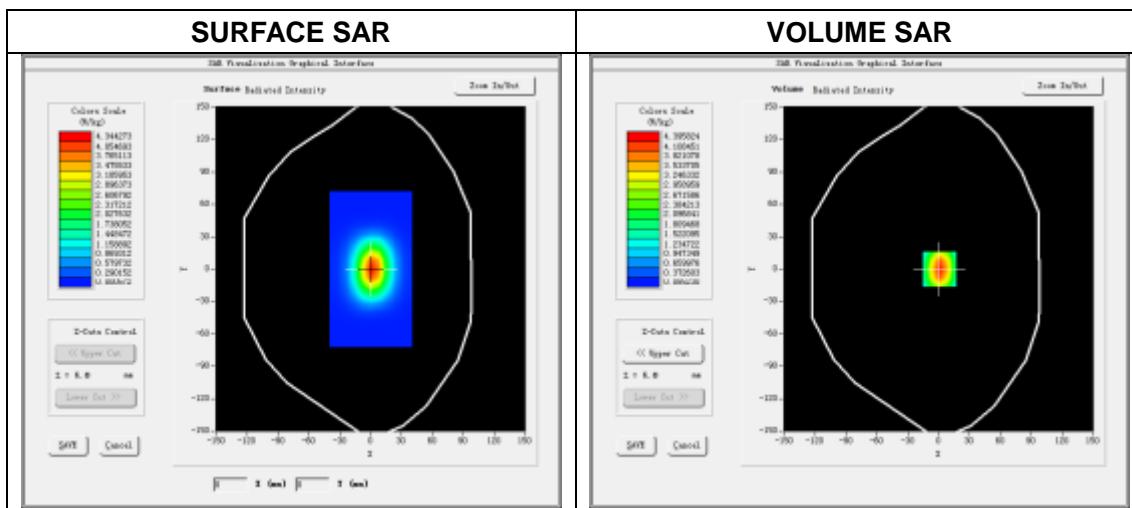
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2017.03.02

Measurement duration: 13 minutes 52 seconds

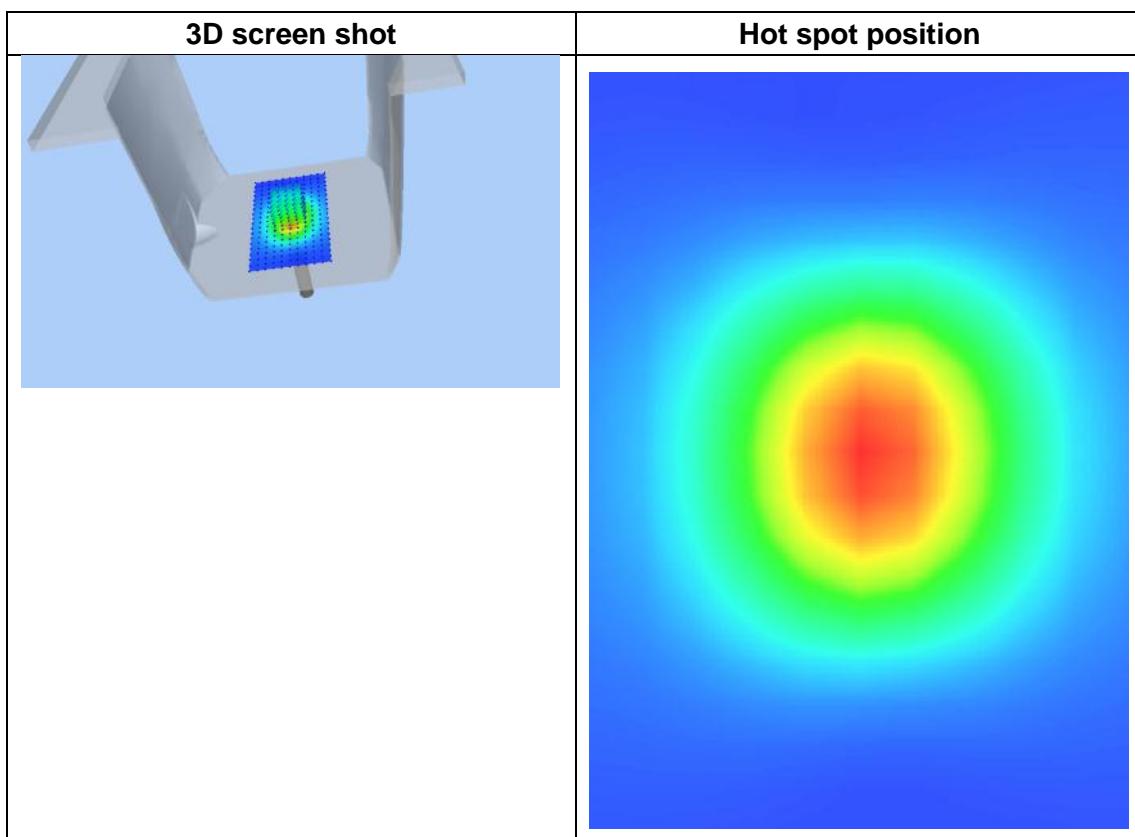
### Experimental conditions.

<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	1800MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	1800.000000
<b>Relative permittivity (real part)</b>	54.352581
<b>Conductivity (S/m)</b>	1.492574
<b>Power drift (%)</b>	0.680000
<b>Ambient Temperature:</b>	22.4°C
<b>Liquid Temperature:</b>	21.3°C
<b>ConvF:</b>	2.08
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00  
SAR Peak: 6.55 W/kg

SAR 10 g (W/Kg)	1.992361
SAR 1g (W/Kg)	3.923758



## 5.6 DIP 1G900

### 5.6.1 Dipole 1900 MHz Validation Measurement for Head Tissue

## System Performance Check Data(1900 MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

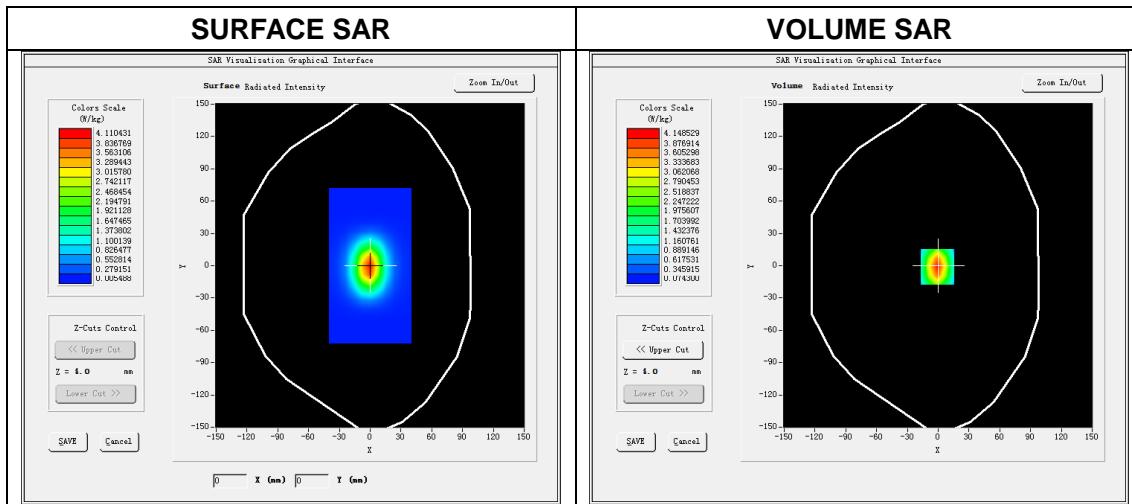
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2017.03.02

Measurement duration: 13 minutes 42 seconds

### Experimental conditions.

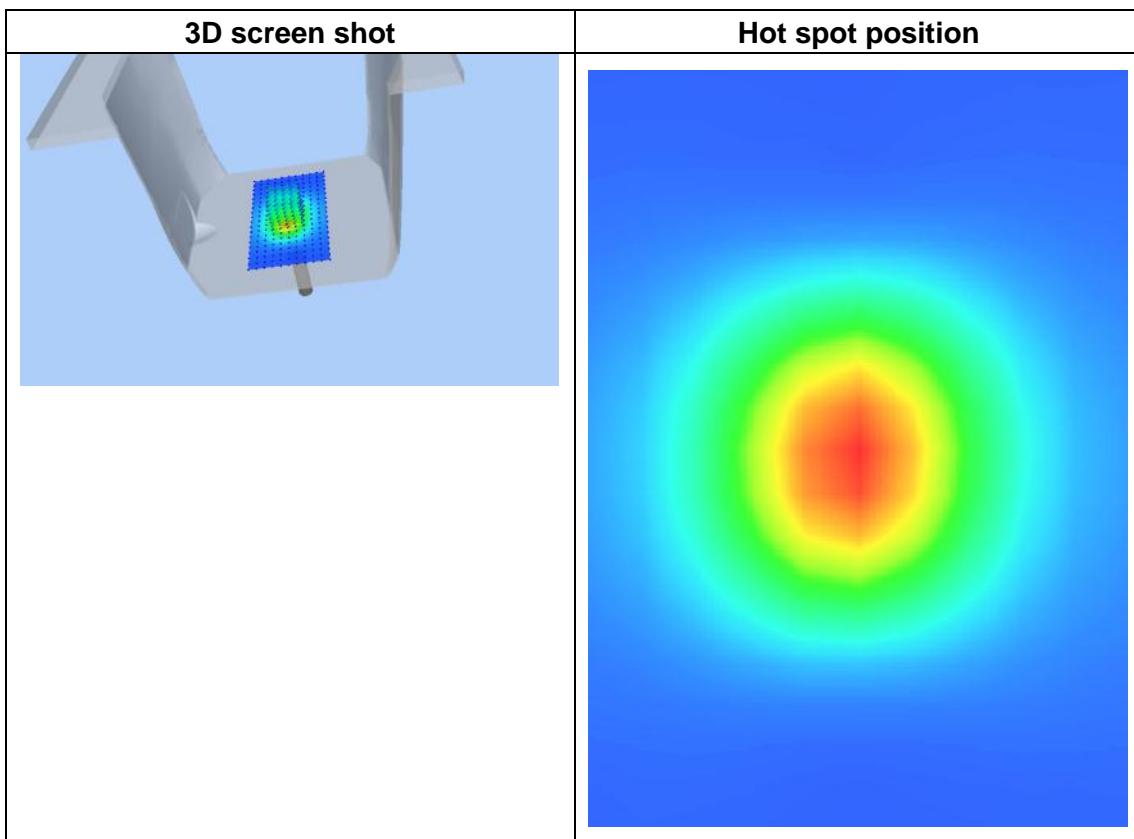
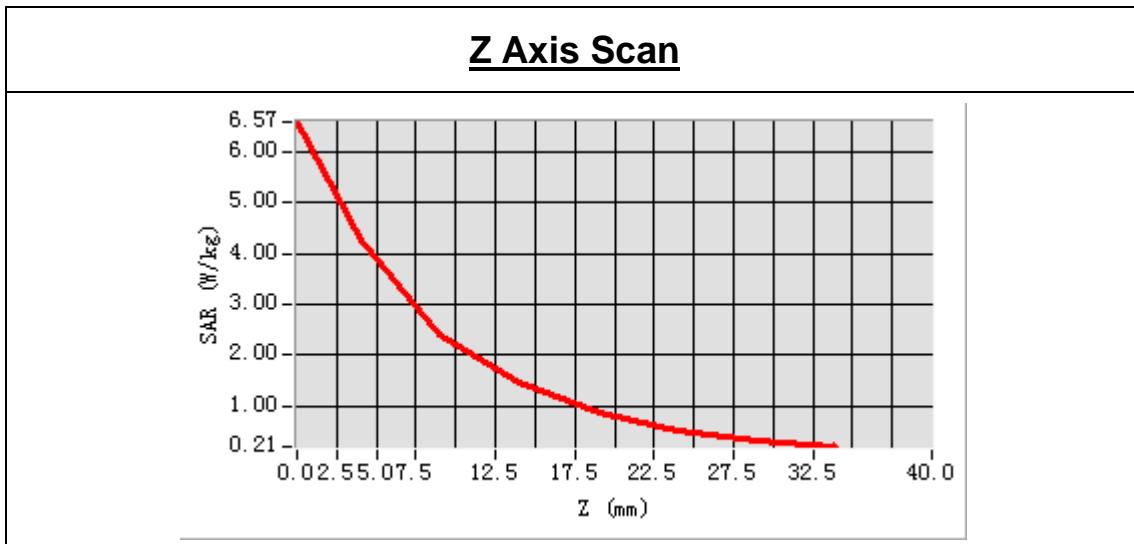
<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	1900MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	1900.000000
<b>Relative permittivity (real part)</b>	39.826257
<b>Conductivity (S/m)</b>	1.426126
<b>Power drift (%)</b>	1.190000
<b>Ambient Temperature:</b>	22.4°C
<b>Liquid Temperature:</b>	21.3°C
<b>ConvF:</b>	2.35
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00

SAR Peak: 6.49W/kg

SAR 10g (W/Kg)	1.921565
SAR 1g (W/Kg)	3.902425



## 5.6.2 Dipole 1900 MHz Validation Measurement for Body Tissue

# System Performance Check Data(1900 MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

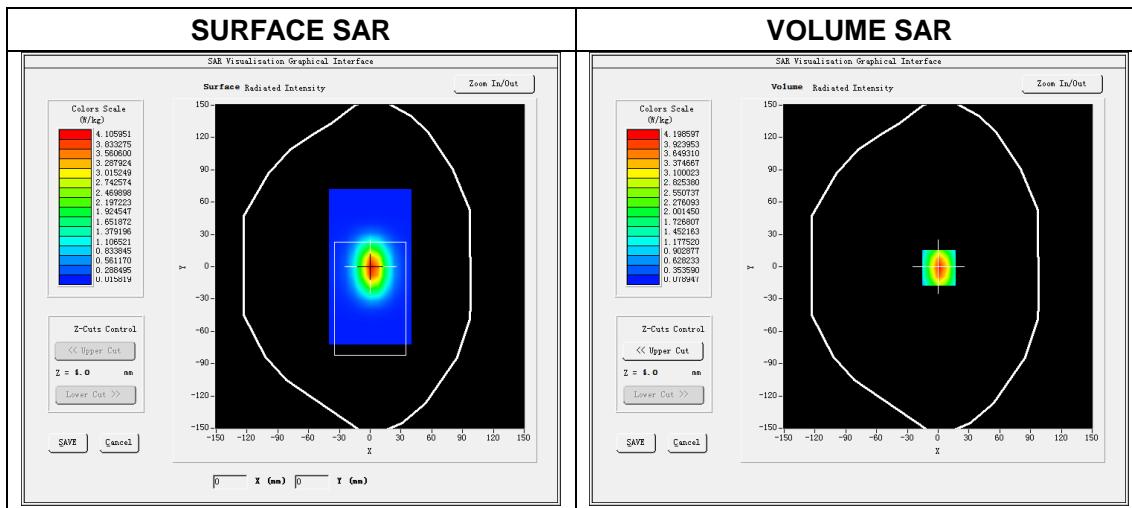
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2017.03.02

Measurement duration: 13 minutes 38 seconds

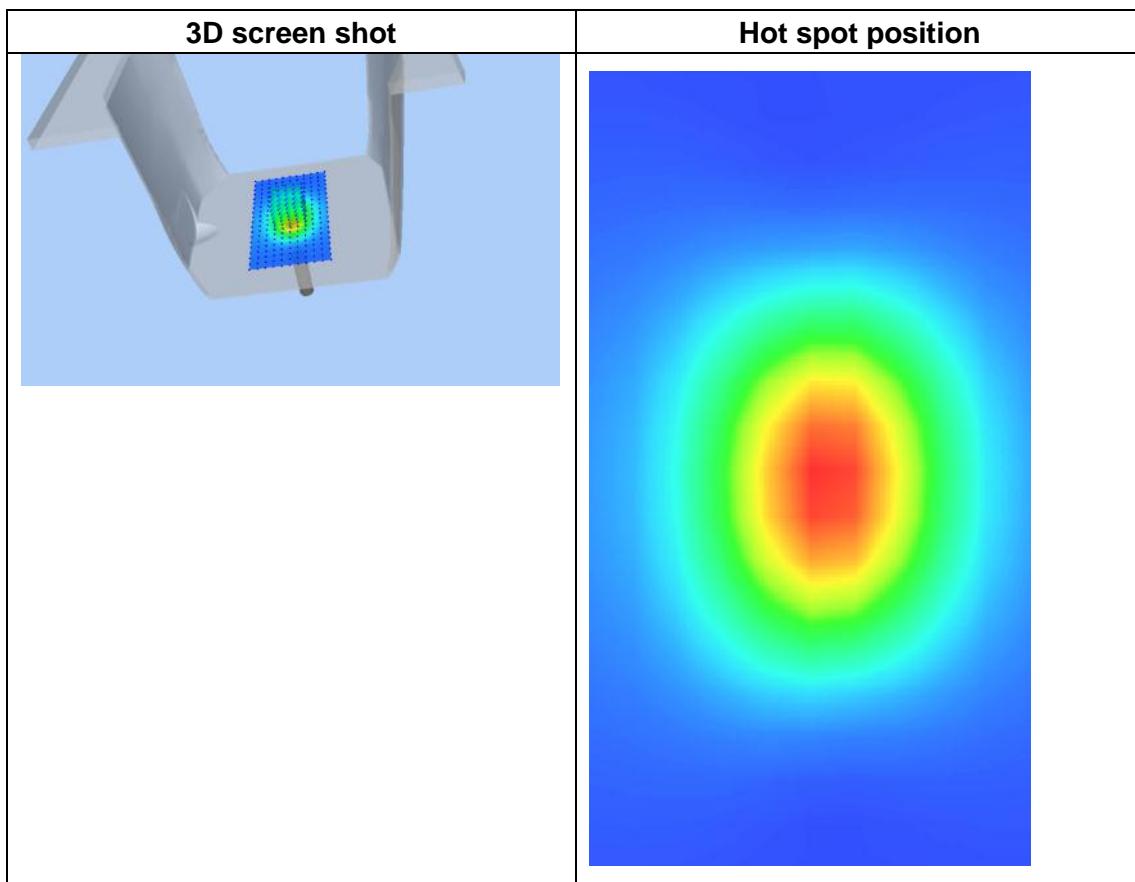
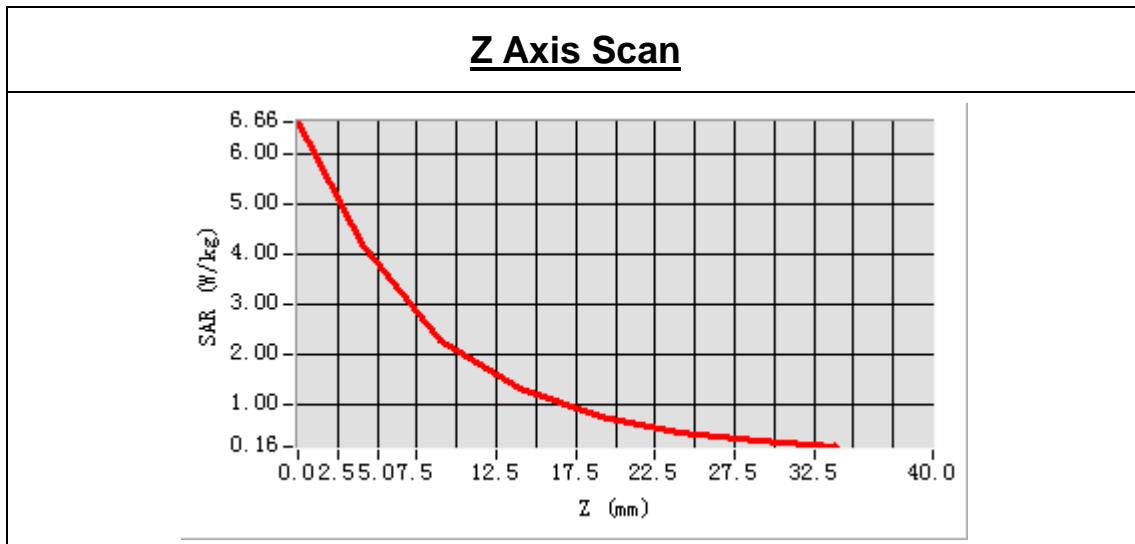
### Experimental conditions.

<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	1900 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	1900.000000
<b>Relative permittivity (real part)</b>	54.023651
<b>Conductivity (S/m)</b>	1.540215
<b>Power drift (%)</b>	0.230000
<b>Ambient Temperature:</b>	22.4°C
<b>Liquid Temperature:</b>	21.3°C
<b>ConvF:</b>	2.42
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00  
SAR Peak: 6.66W/kg

SAR 10g (W/Kg)	2.010256
SAR 1g (W/Kg)	3.951364



## 5.7 DIP 2G000

### 5.7.1 Dipole 2000 MHz Validation Measurement for Head Tissue

## System Performance Check Data(2000 MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8 mm, dy=8 mm

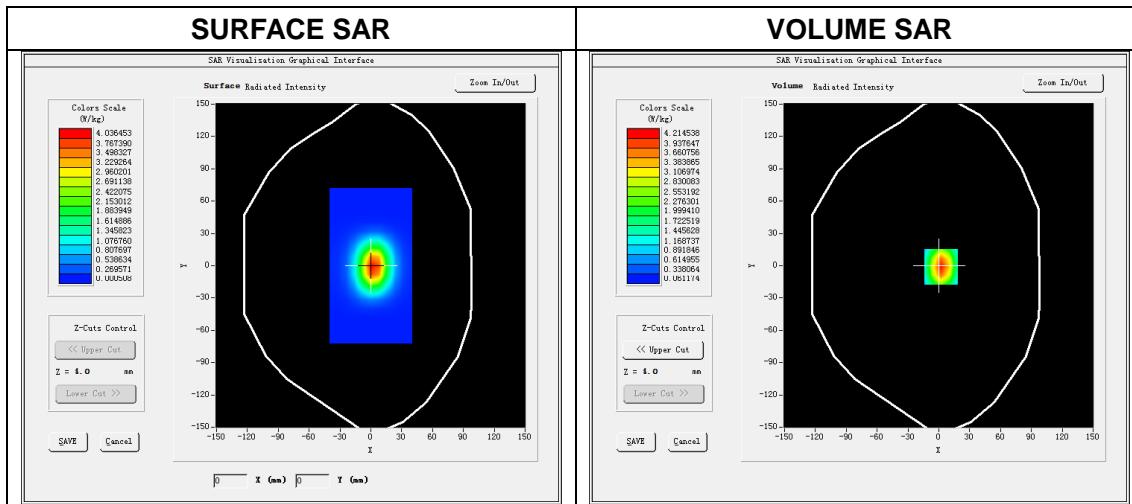
Zoom scan resolution: dx=8 mm, dy=8 mm, dz=5 mm

Date of measurement: 2017.03.02

Measurement duration: 14 minutes 17 seconds

### Experimental conditions.

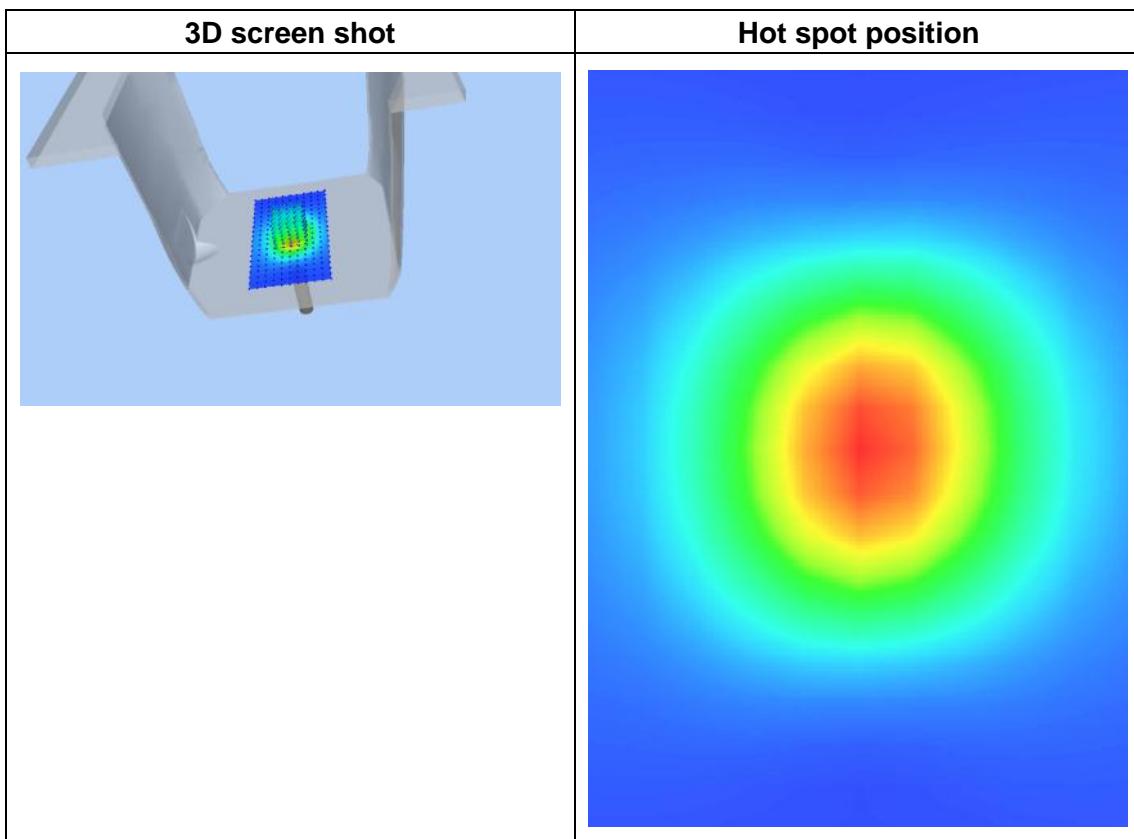
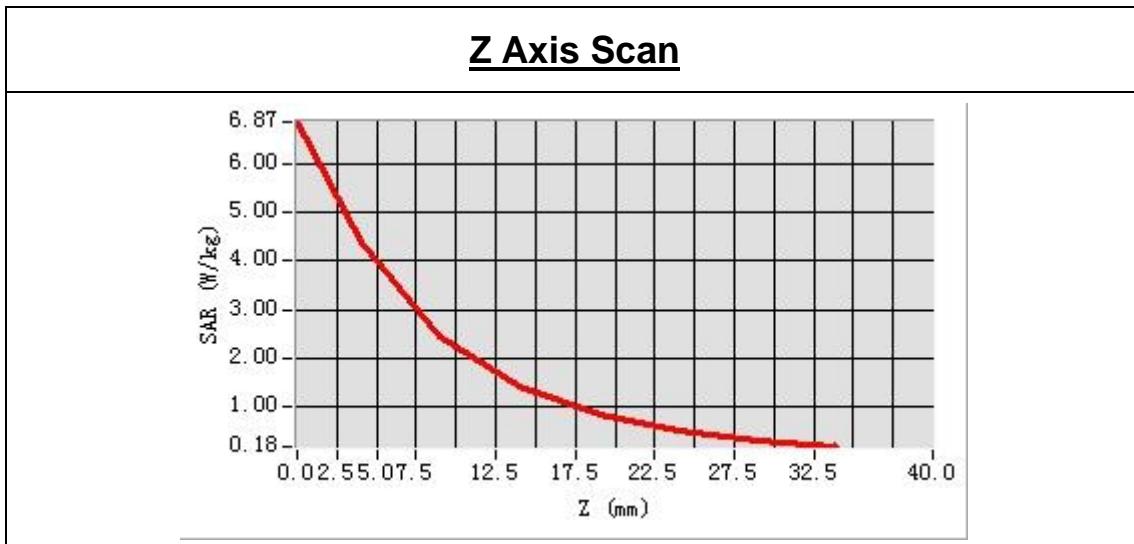
<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	2000 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	2000.000000
<b>Relative permittivity (real part)</b>	38.789355
<b>Conductivity (S/m)</b>	1.4251543
<b>Power drift (%)</b>	0.660000
<b>Ambient Temperature:</b>	22.4°C
<b>Liquid Temperature:</b>	21.3°C
<b>ConvF:</b>	2.23
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00

SAR Peak: 6.69 W/kg

SAR 10 g (W/Kg)	2.062551
SAR 1 g (W/Kg)	4.020365



## 5.7.2 Dipole 2000 MHz Validation Measurement for Body Tissue

# System Performance Check Data(2000 MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8 mm,dy=8 mm

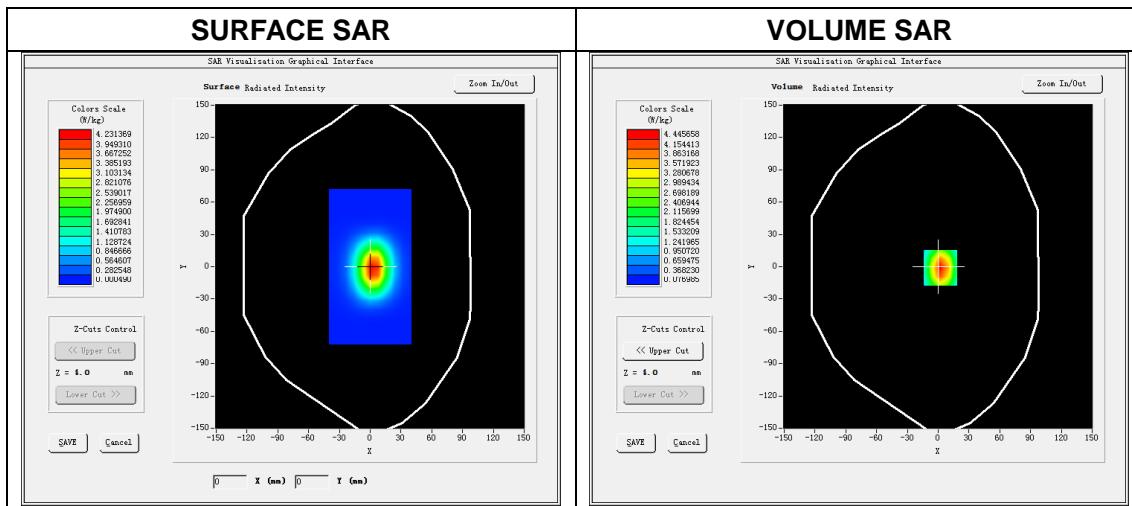
Zoom scan resolution: dx=8 mm, dy=8 mm, dz=5 mm

Date of measurement: 2017.03.02

Measurement duration: 14 minutes 11 seconds

### Experimental conditions.

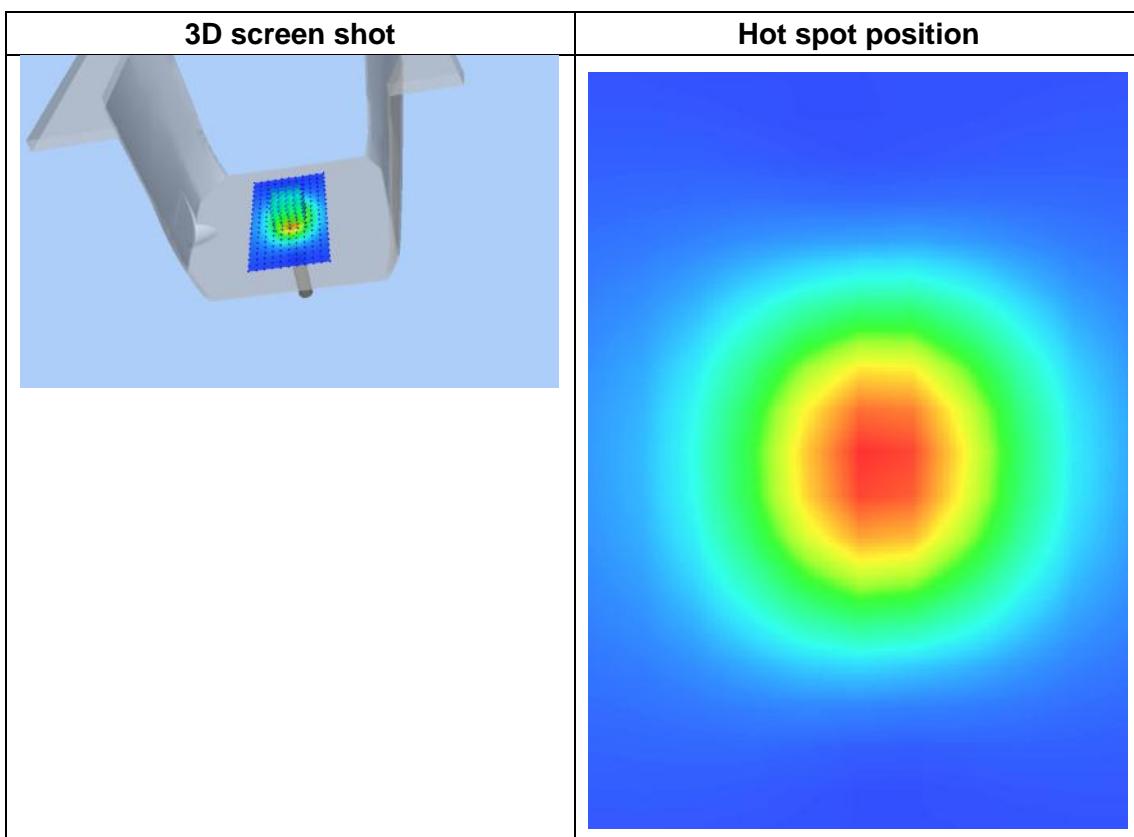
<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	2000 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	2000.000000
<b>Relative permittivity (real part)</b>	51.512549
<b>Conductivity (S/m)</b>	1.549334
<b>Power drift (%)</b>	0.510000
<b>Ambient Temperature:</b>	22.4°C
<b>Liquid Temperature:</b>	21.3°C
<b>ConvF:</b>	2.32
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00

SAR Peak: 6.98 W/kg

SAR 10 g (W/Kg)	2.189137
SAR 1 g (W/Kg)	4.215283



## 5.8 DIP 2G450

### 5.8.1 Dipole 2450 MHz Validation Measurement for Head Tissue

## System Performance Check Data(2450 MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=5mm, dy=5mm, dz=5mm

Date of measurement: 2017.03.02

Measurement duration: 18 minutes 37 seconds

### Experimental conditions.

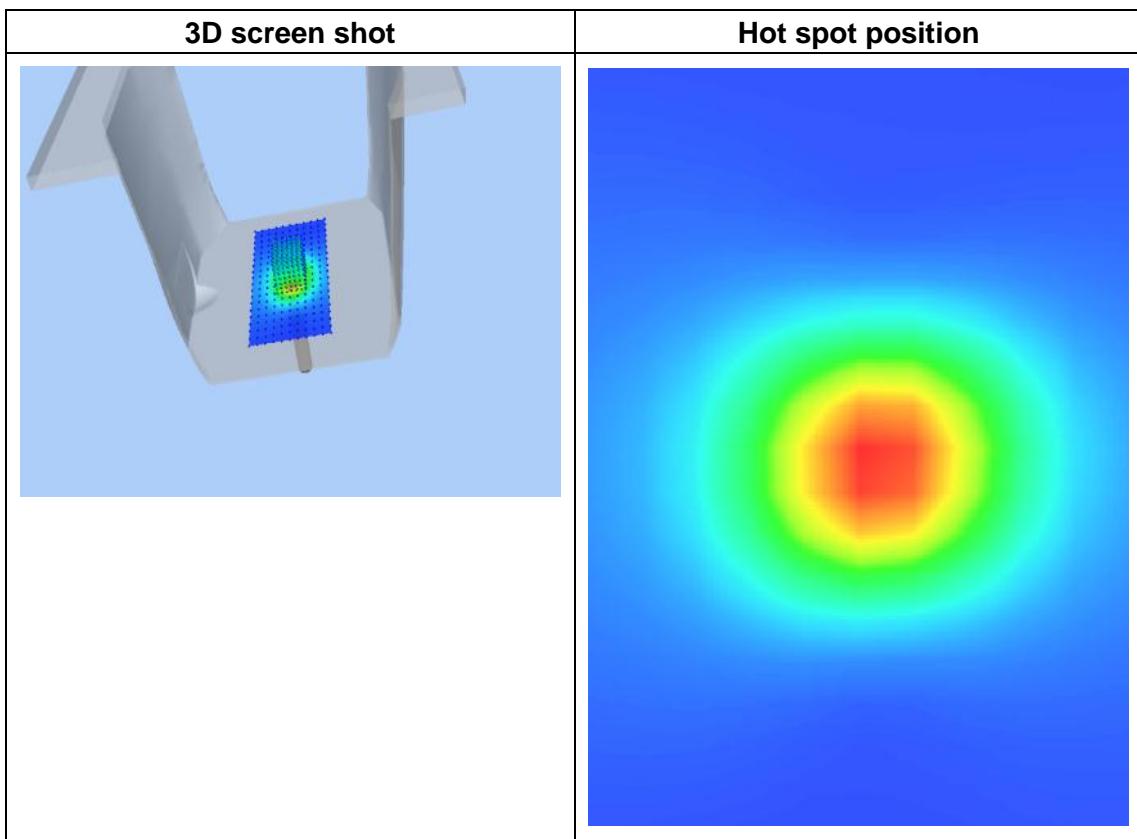
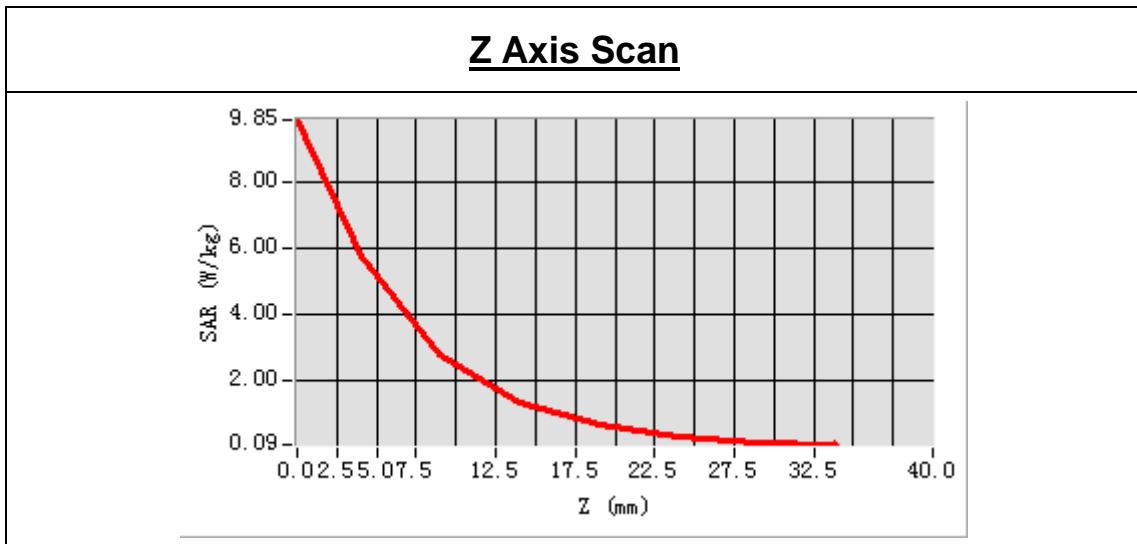
<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	2450MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	2450.000000
<b>Relative permittivity (real part)</b>	38.863623
<b>Conductivity (S/m)</b>	1.810263
<b>Power drift (%)</b>	1.240000
<b>Ambient Temperature:</b>	22.4°C
<b>Liquid Temperature:</b>	21.3°C
<b>ConvF:</b>	2.47
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00

SAR Peak: 9.79 W/kg

SAR 10g (W/Kg)	2.479365
SAR 1g (W/Kg)	5.302546



## 5.8.2 Dipole 2450 MHz Validation Measurement for Body Tissue

# System Performance Check Data(2450 MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8 mm,dy=8 mm

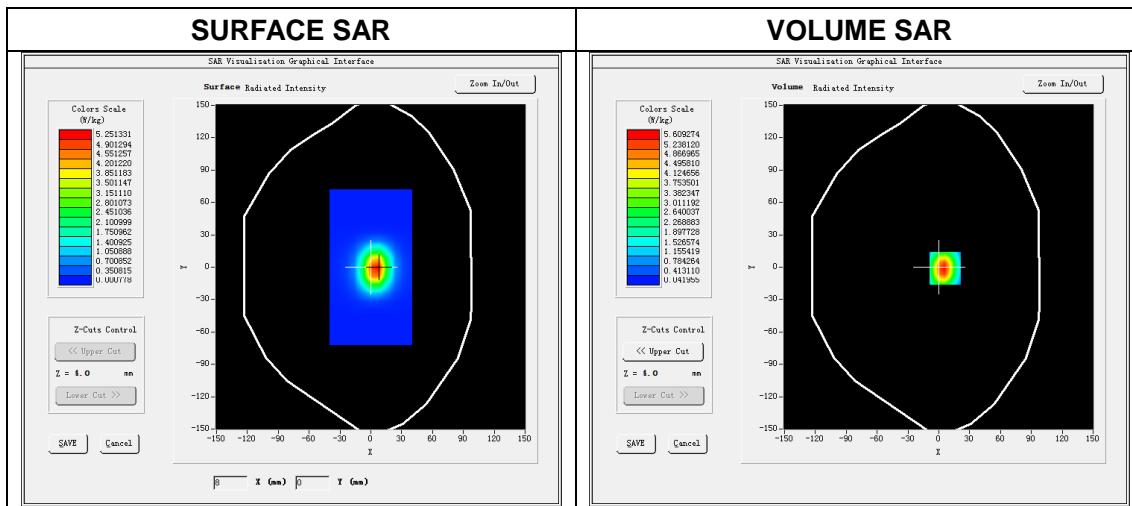
Zoom scan resolution: dx=5 mm, dy=5 mm, dz=5 mm

Date of measurement: 2017.03.02

Measurement duration: 19 minutes 15 seconds

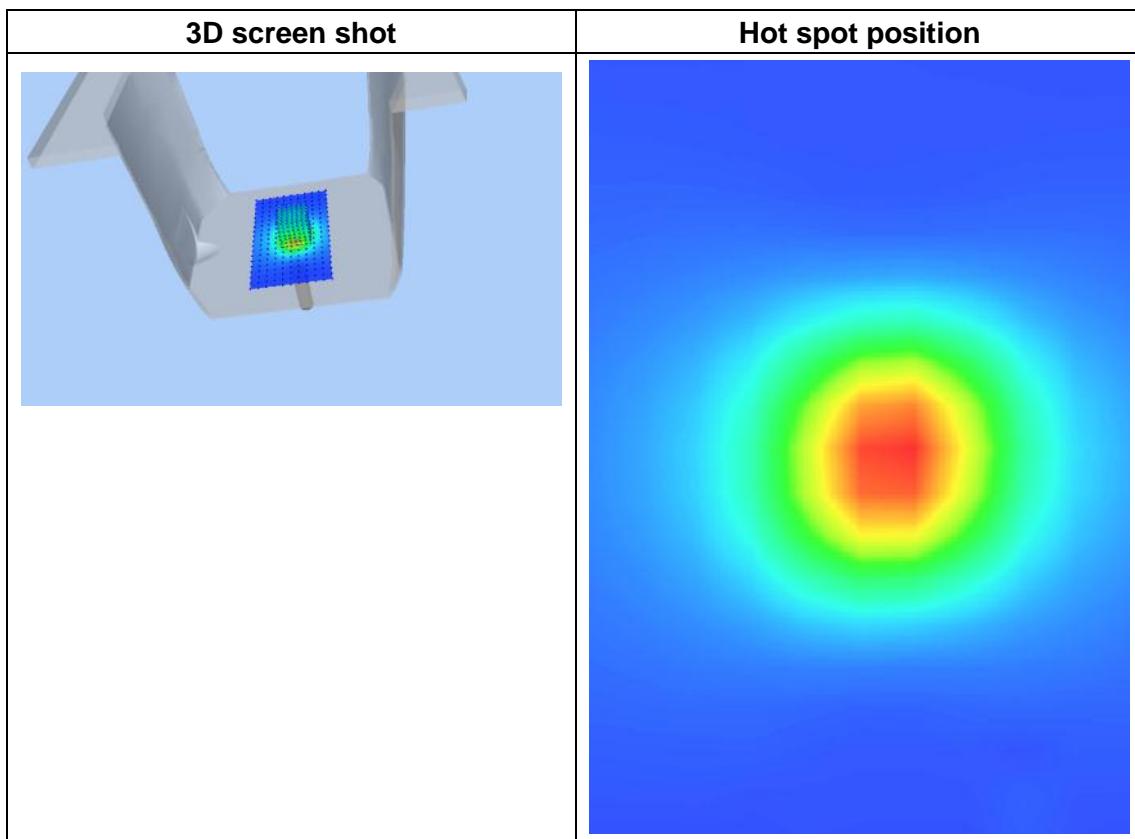
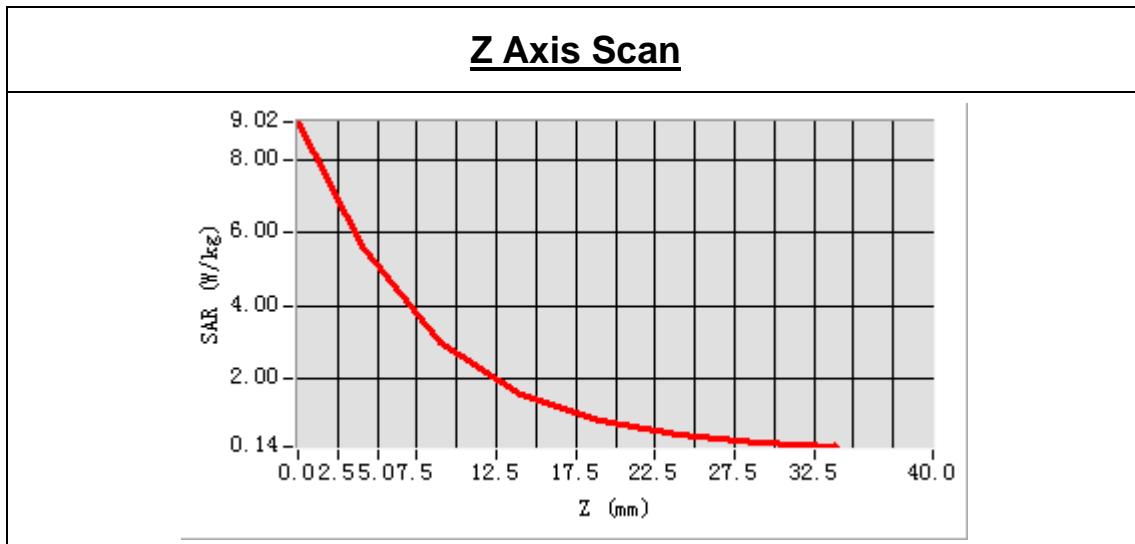
### Experimental conditions.

<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	2450 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	2450.000000
<b>Relative permittivity (real part)</b>	52.912582
<b>Conductivity (S/m)</b>	1.952326
<b>Power drift (%)</b>	-0.110000
<b>Ambient Temperature:</b>	22.4°C
<b>Liquid Temperature:</b>	21.3°C
<b>ConvF:</b>	2.55
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00  
SAR Peak: 9.01 W/kg

SAR 10 g (W/Kg)	2.448257
SAR 1 g (W/Kg)	5.102686



## 5.9 DIP 2G600

### 5.9.1 Dipole 2600 MHz Validation Measurement for Head Tissue

## System Performance Check Data(2600 MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8 mm, dy=8 mm

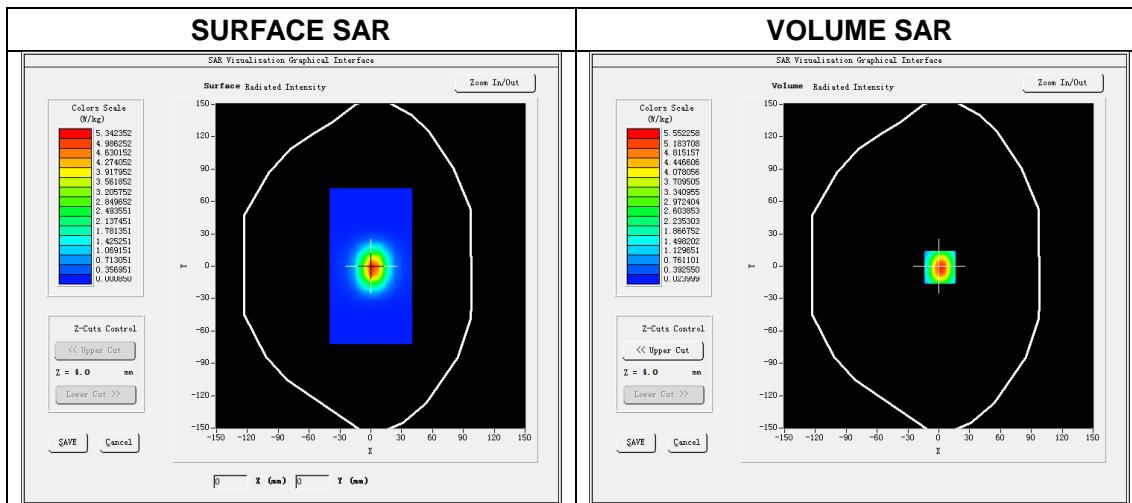
Zoom scan resolution: dx=5 mm, dy=5 mm, dz=5 mm

Date of measurement: 2017.03.03

Measurement duration: 19 minutes 16 seconds

### Experimental conditions.

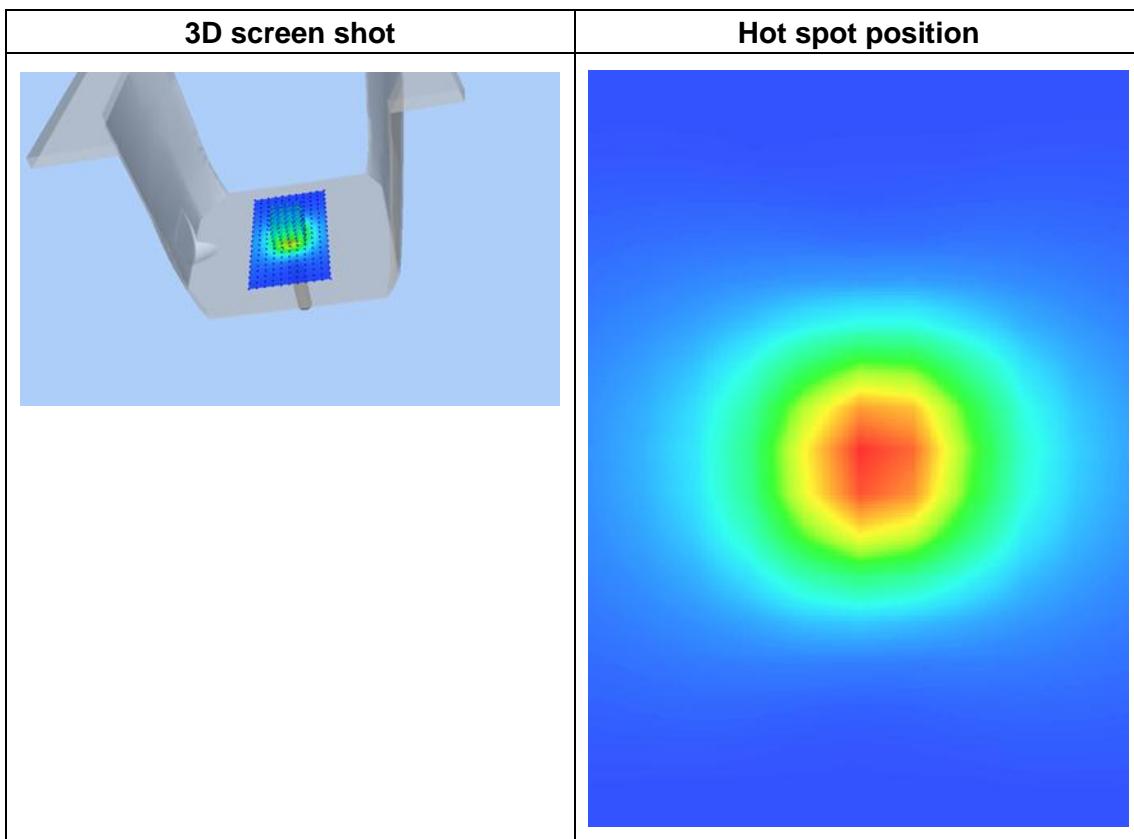
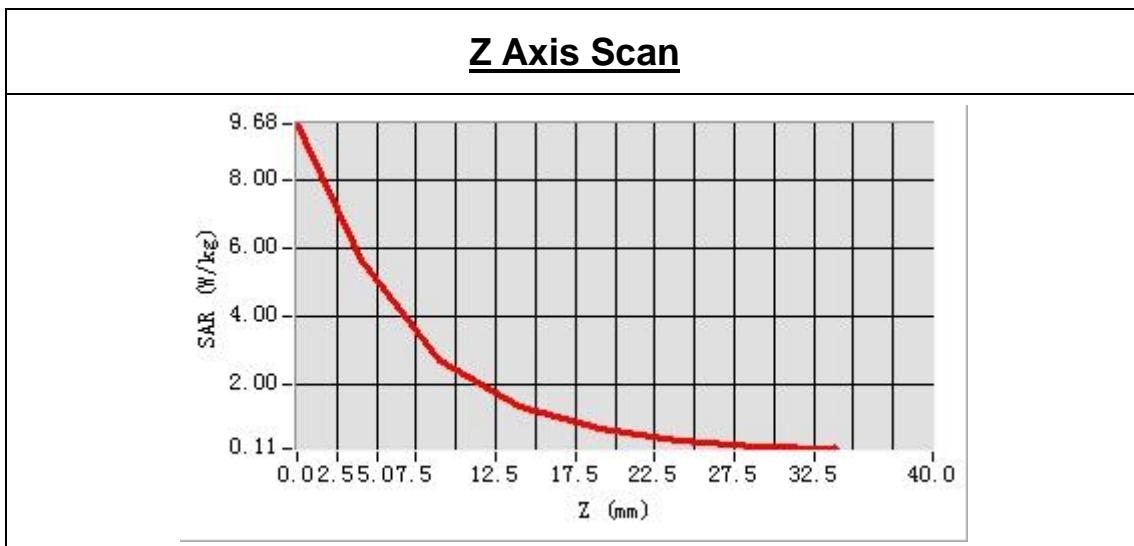
<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	2600 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	2600.000000
<b>Relative permittivity (real part)</b>	38.085257
<b>Conductivity (S/m)</b>	1.982546
<b>Power drift (%)</b>	-0.050000
<b>Ambient Temperature:</b>	22.2°C
<b>Liquid Temperature:</b>	21.2°C
<b>ConvF:</b>	2.36
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00

SAR Peak: 9.66 W/kg

SAR 10 g (W/Kg)	2.506594
SAR 1 g (W/Kg)	5.336598



## 5.9.2 Dipole 2600 MHz Validation Measurement for Body Tissue

# System Performance Check Data(2600 MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8 mm,dy=8 mm

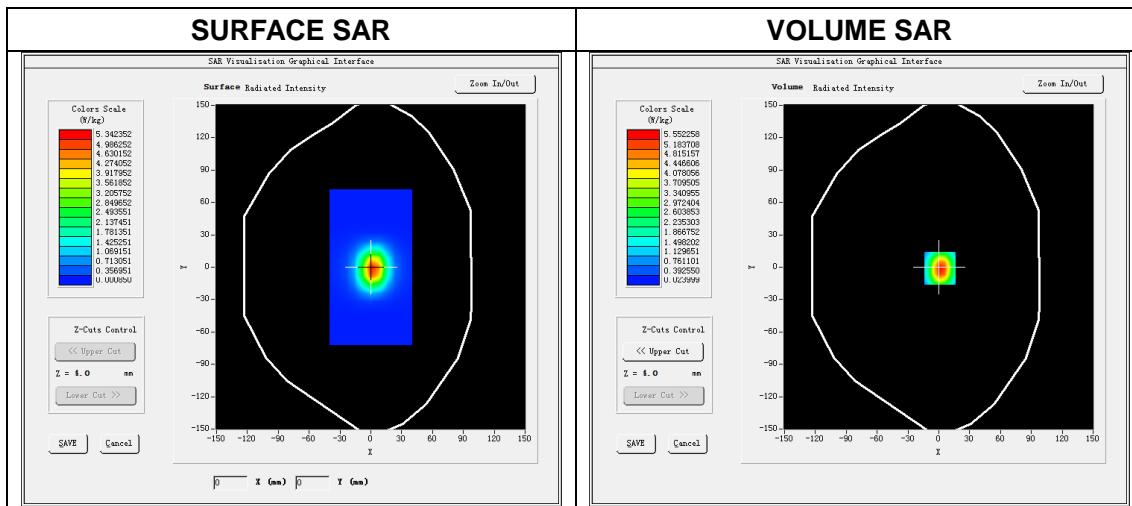
Zoom scan resolution: dx=5 mm, dy=5 mm, dz=5 mm

Date of measurement: 2017.03.03

Measurement duration: 19 minutes 11 seconds

### Experimental conditions.

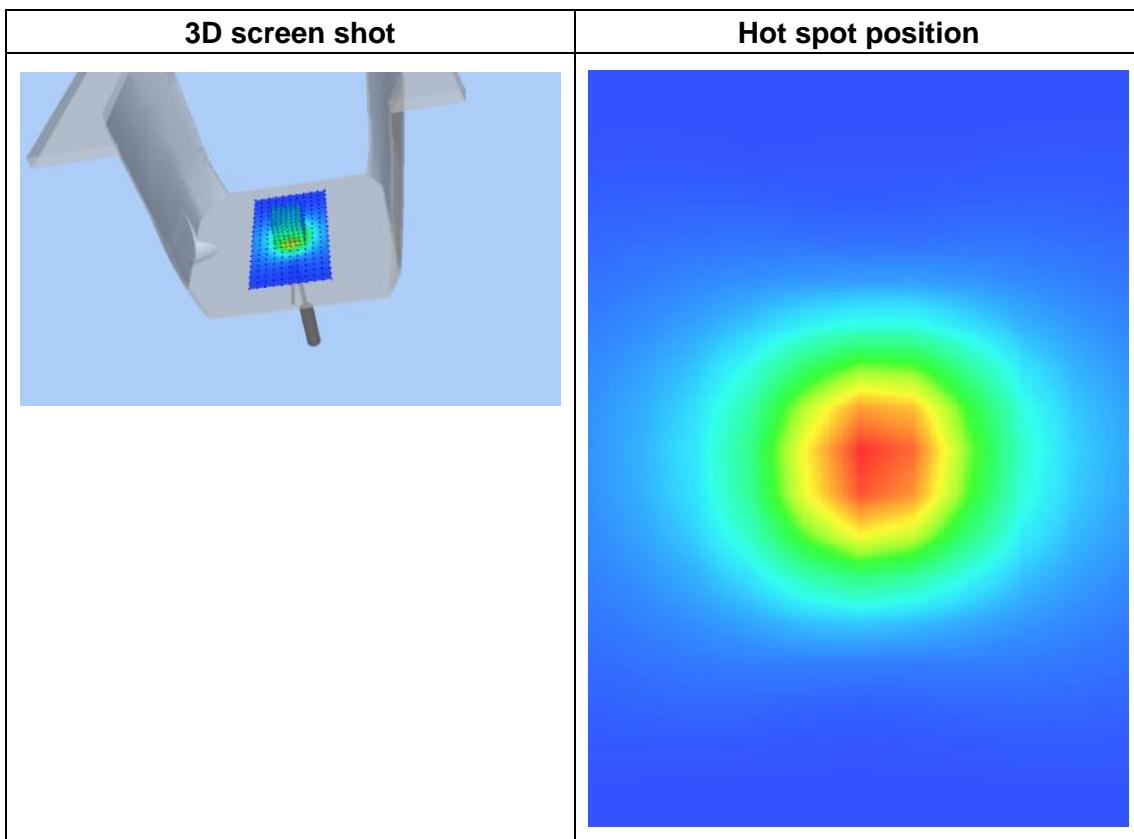
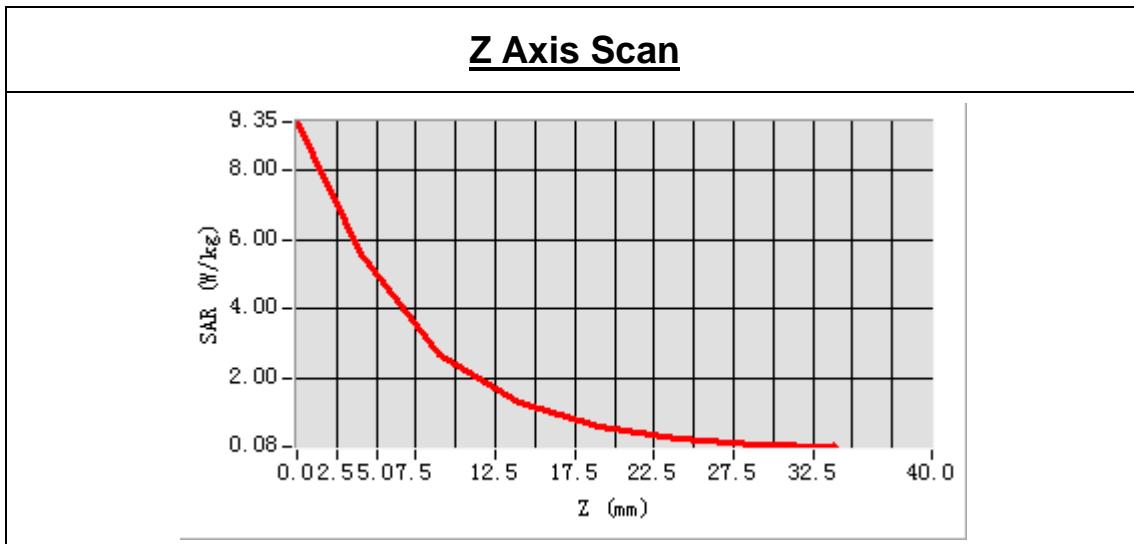
<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	2600 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	2600.000000
<b>Relative permittivity (real part)</b>	53.385272
<b>Conductivity (S/m)</b>	2.138941
<b>Power drift (%)</b>	0.550000
<b>Ambient Temperature:</b>	22.2°C
<b>Liquid Temperature:</b>	21.2°C
<b>ConvF:</b>	2.43
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00

SAR Peak: 9.33 W/kg

SAR 10 g (W/Kg)	2.375266
SAR 1 g (W/Kg)	5.167828



## 5.10 SWG5500

### 5.10.1 Waveguide 5 GHz Validation Measurement for Head Tissue

## System Performance Check Data(5200 MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

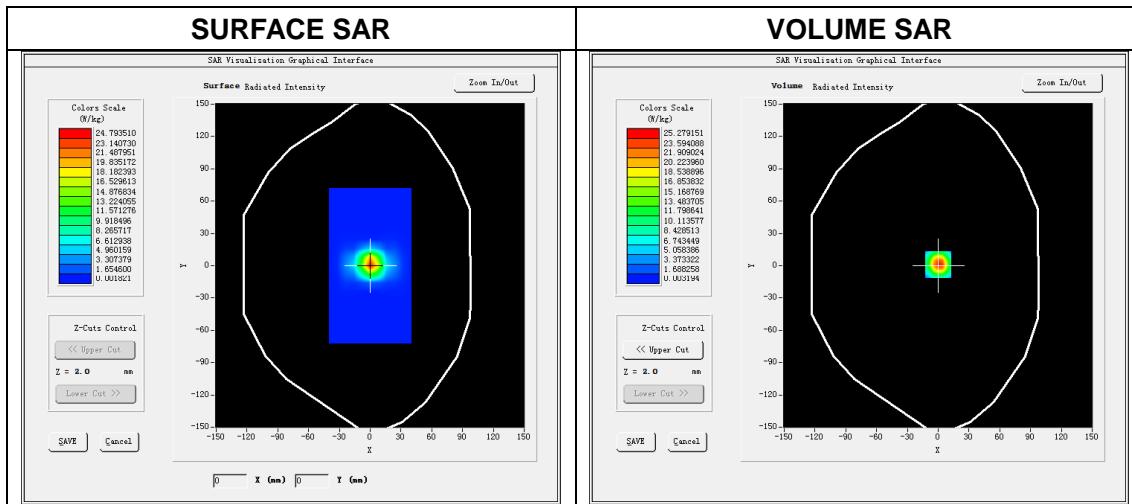
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2017.03.04

Measurement duration: 29 minutes 20 seconds

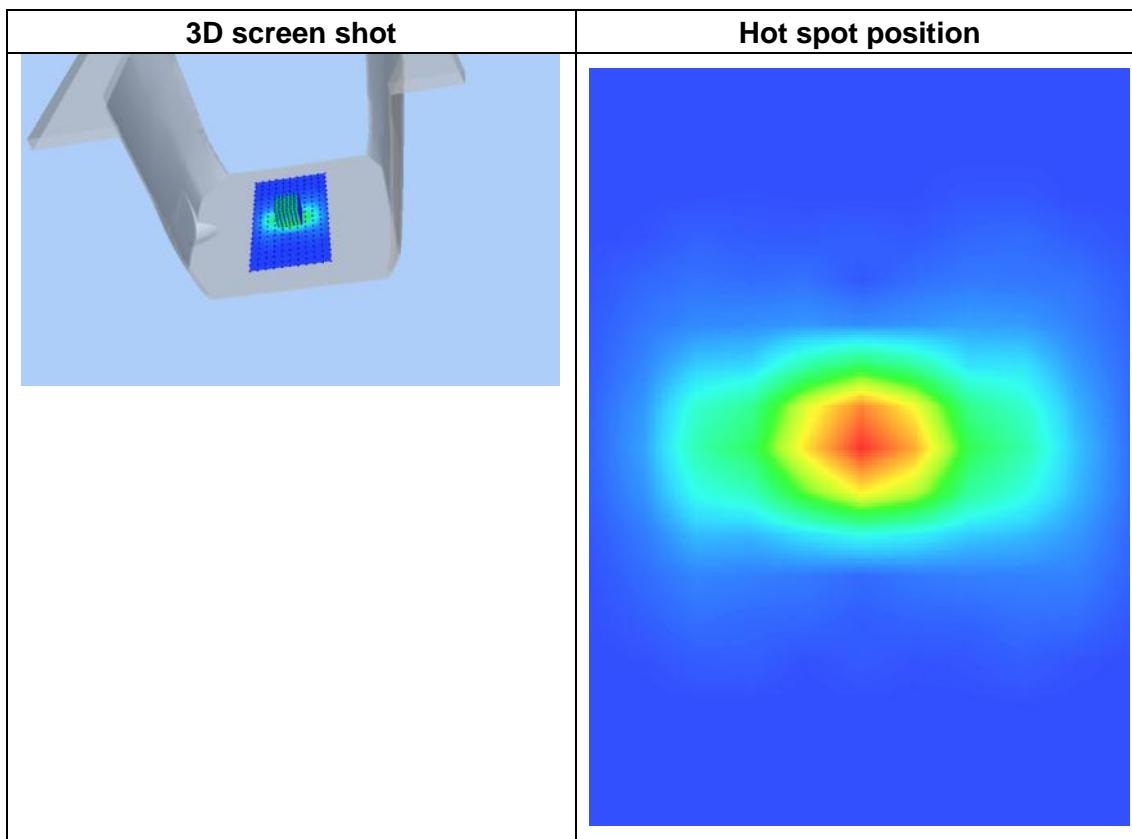
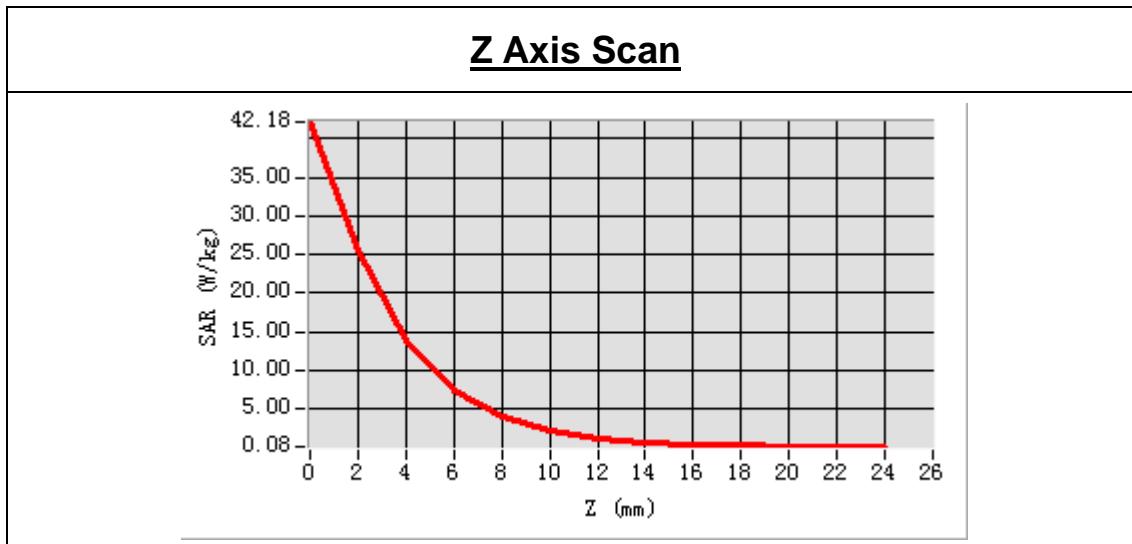
### Experimental conditions.

<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	5200 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	5200.000000
<b>Relative permittivity (real part)</b>	36.726545
<b>Conductivity (S/m)</b>	4.619563
<b>Power drift (%)</b>	0.170000
<b>Ambient Temperature:</b>	22.3°C
<b>Liquid Temperature:</b>	21.2°C
<b>ConvF:</b>	1.81
<b>Crest factor:</b>	1:1



Maximum location: X=3.00, Y=1.00  
SAR Peak: 42.16 W/kg

SAR 10g (W/Kg)	5.458332
SAR 1g (W/Kg)	15.372378



# System Performance Check Data(5400 MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

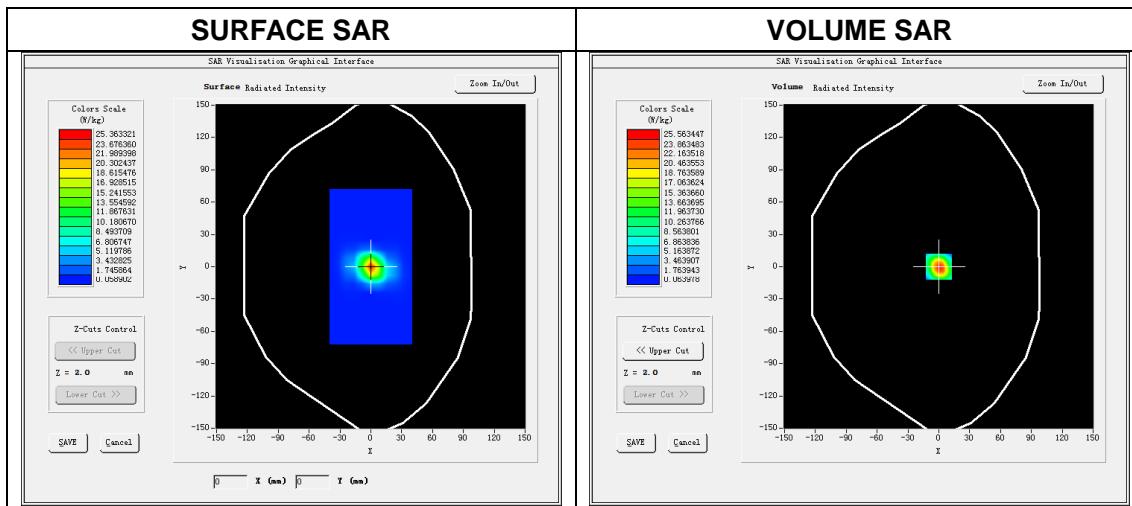
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2017.03.04

Measurement duration: 29 minutes 19 seconds

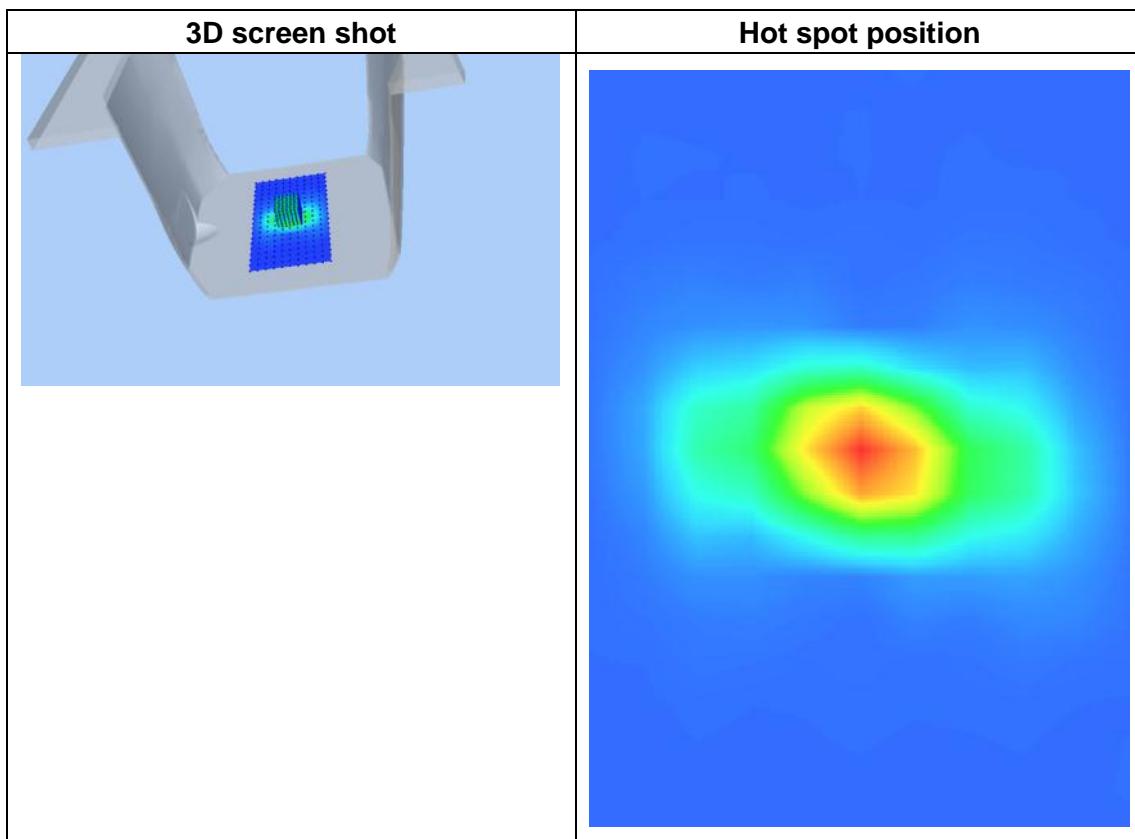
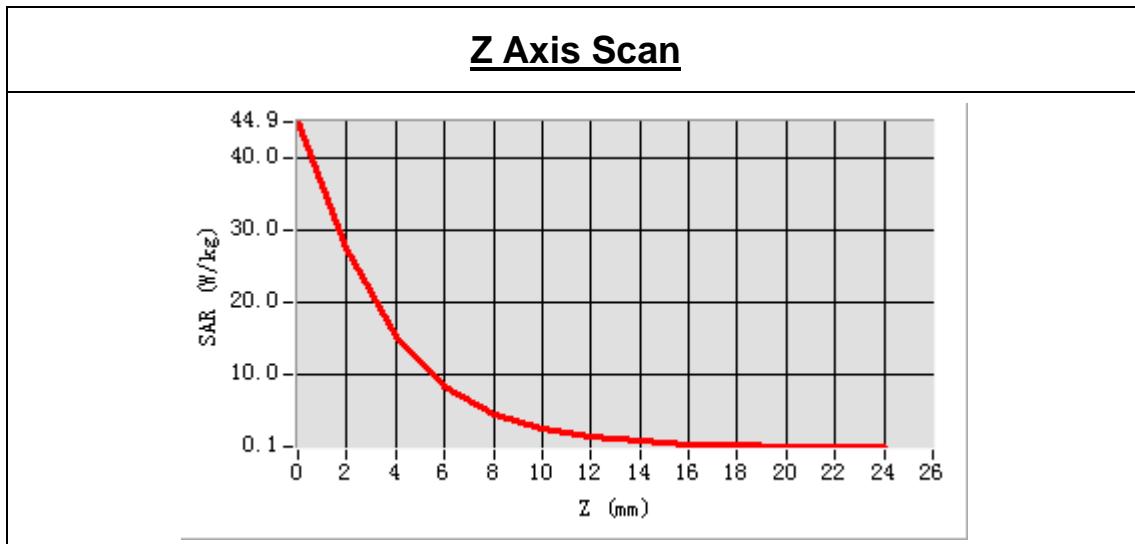
## Experimental conditions.

<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	5400 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	5400.000000
<b>Relative permittivity (real part)</b>	36.215425
<b>Conductivity (S/m)</b>	4.818762
<b>Power drift (%)</b>	1.120000
<b>Ambient Temperature:</b>	22.3°C
<b>Liquid Temperature:</b>	21.2°C
<b>ConvF:</b>	2.04
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00  
SAR Peak: 44.75 W/kg

SAR 10g (W/Kg)	5.521578
SAR 1g (W/Kg)	15.893652



# System Performance Check Data(5600 MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

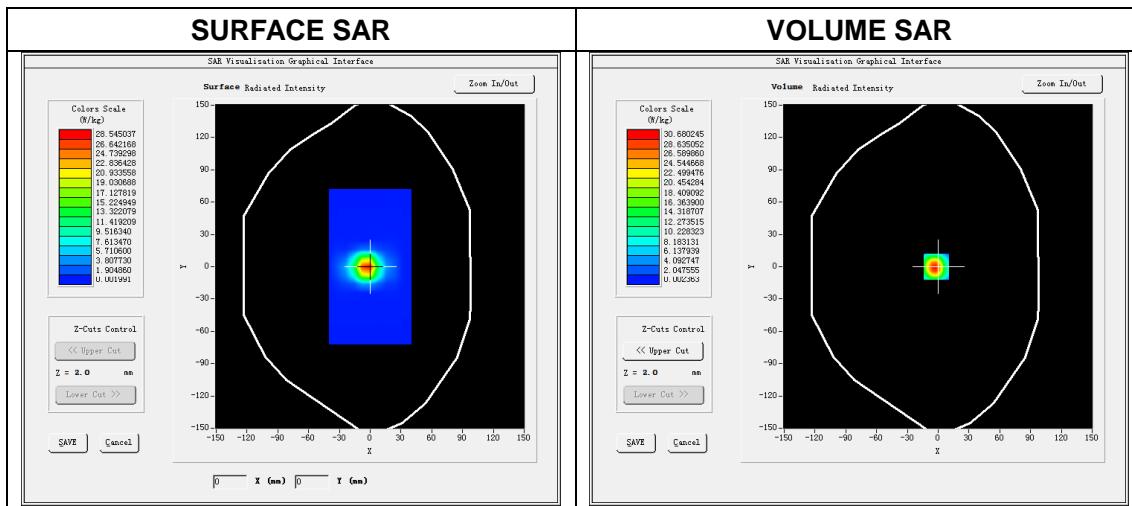
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2017.03.04

Measurement duration: 29 minutes 28 seconds

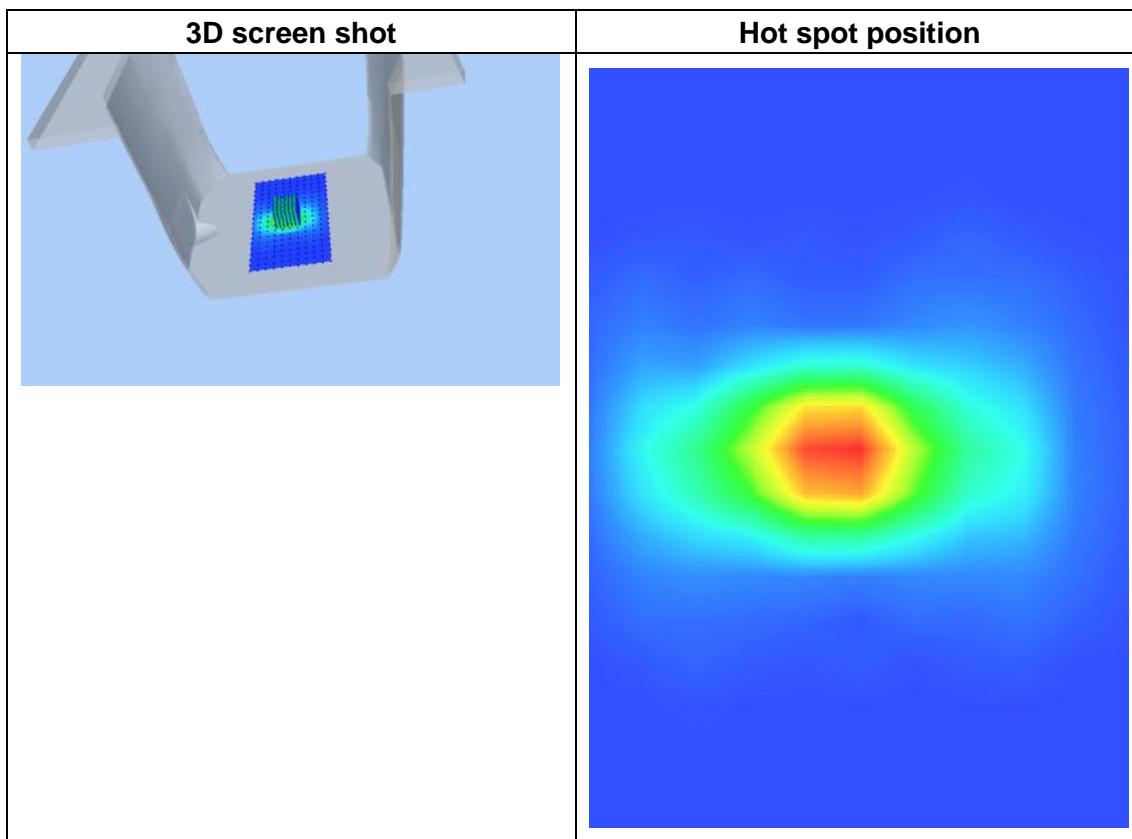
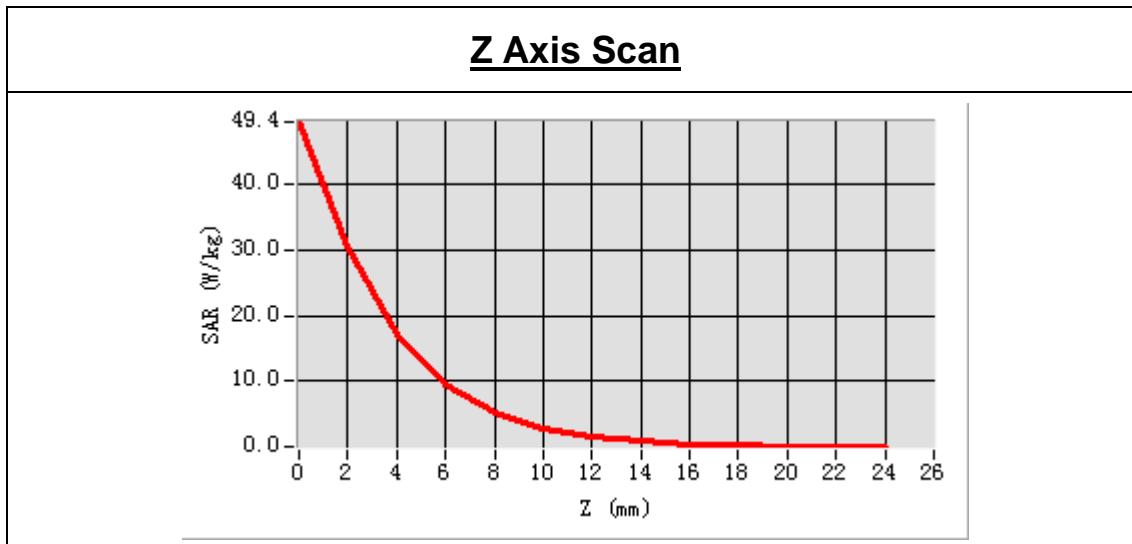
## Experimental conditions.

<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	5600 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	5600.000000
<b>Relative permittivity (real part)</b>	34.254845
<b>Conductivity (S/m)</b>	5.132262
<b>Power drift (%)</b>	1.380000
<b>Ambient Temperature:</b>	22.3°C
<b>Liquid Temperature:</b>	21.2°C
<b>ConvF:</b>	2.08
<b>Crest factor:</b>	1:1



Maximum location: X=1.00, Y=1.00  
SAR Peak: 49.55 W/kg

SAR 10g (W/Kg)	5.788135
SAR 1g (W/Kg)	16.458215



# System Performance Check Data(5800 MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

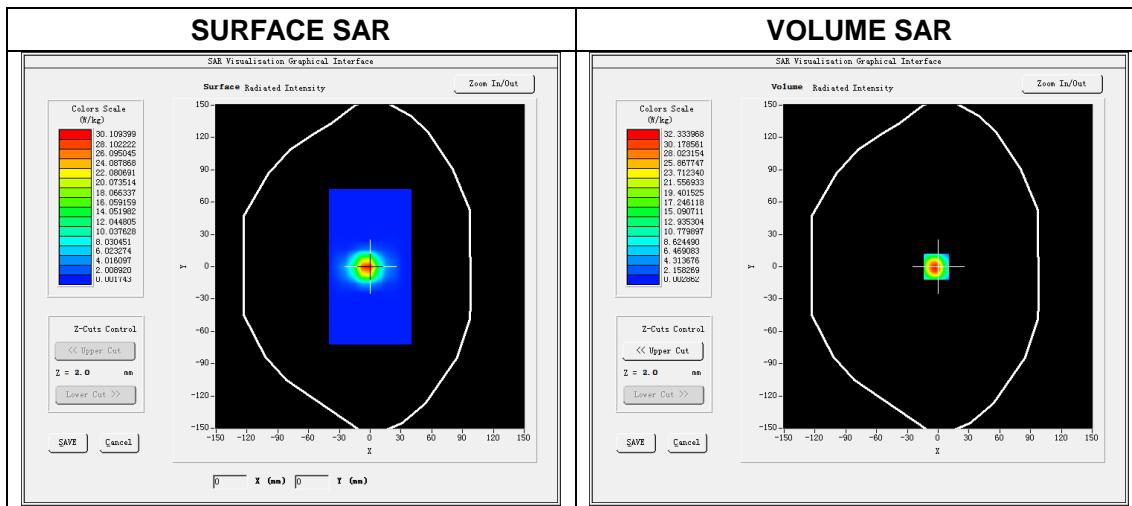
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2017.03.04

Measurement duration: 29 minutes 38 seconds

## Experimental conditions.

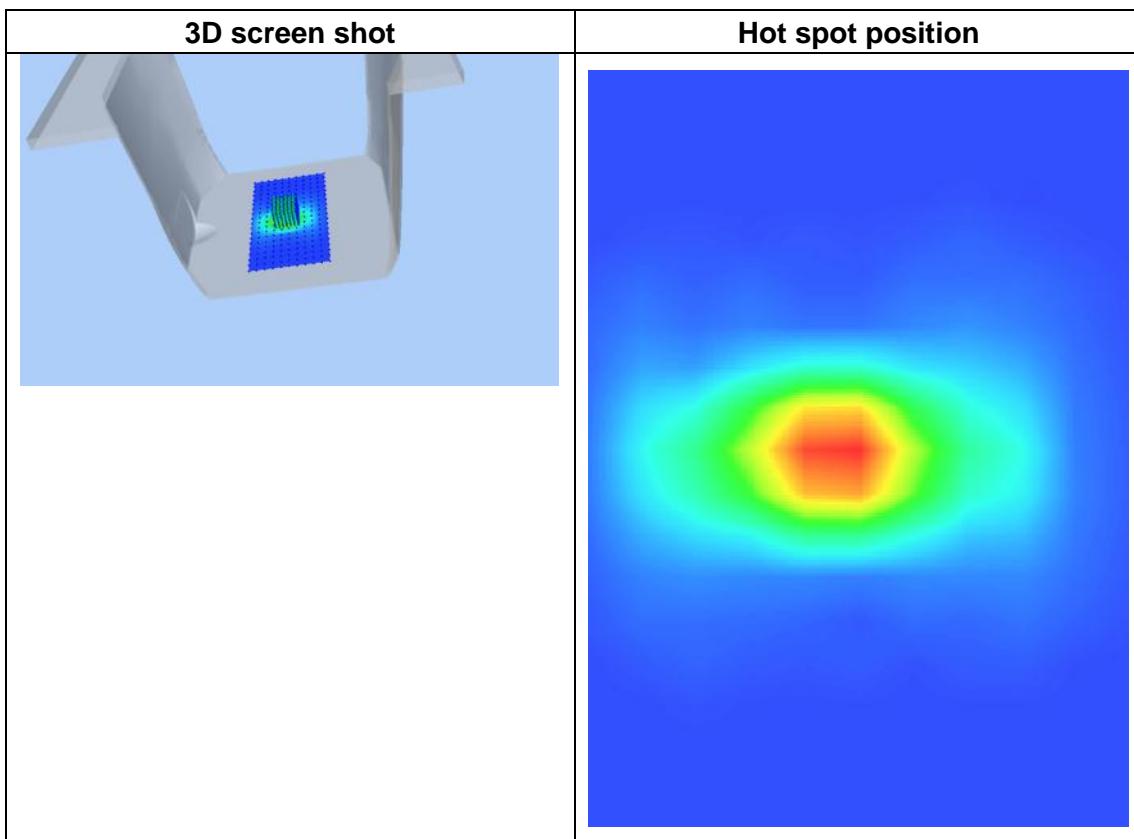
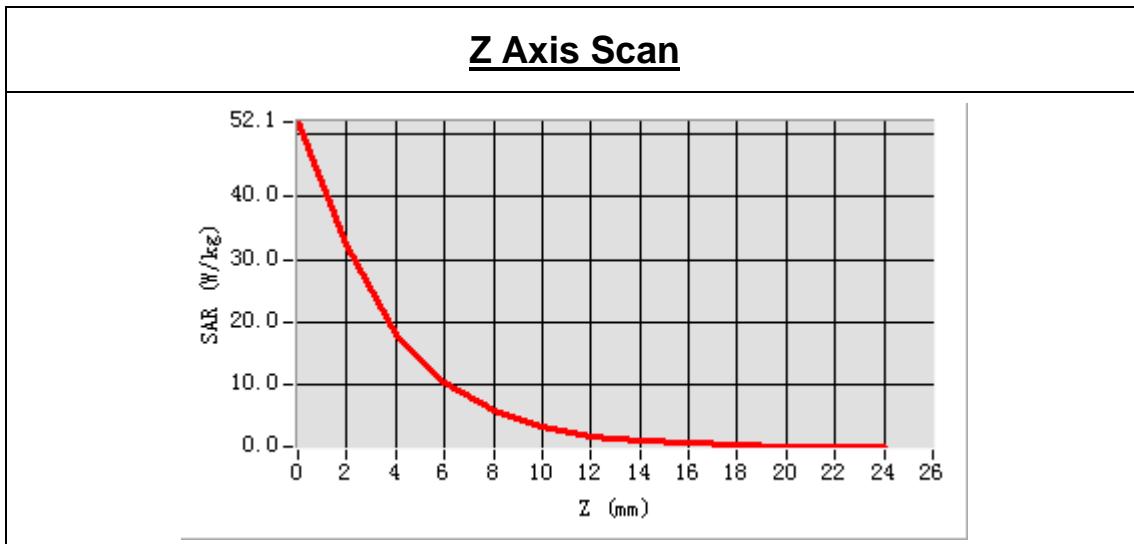
<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	5800 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	5800.000000
<b>Relative permittivity (real part)</b>	34.623258
<b>Conductivity (S/m)</b>	5.332958
<b>Power drift (%)</b>	1.180000
<b>Ambient Temperature:</b>	22.3°C
<b>Liquid Temperature:</b>	21.2°C
<b>ConvF:</b>	1.88
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00

SAR Peak: 51.75 W/kg

SAR 10g (W/Kg)	5.986358
SAR 1g (W/Kg)	17.698213



## 5.10.2 Waveguide 5 GHz Validation Measurement for Body Tissue

# System Performance Check Data(5200MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

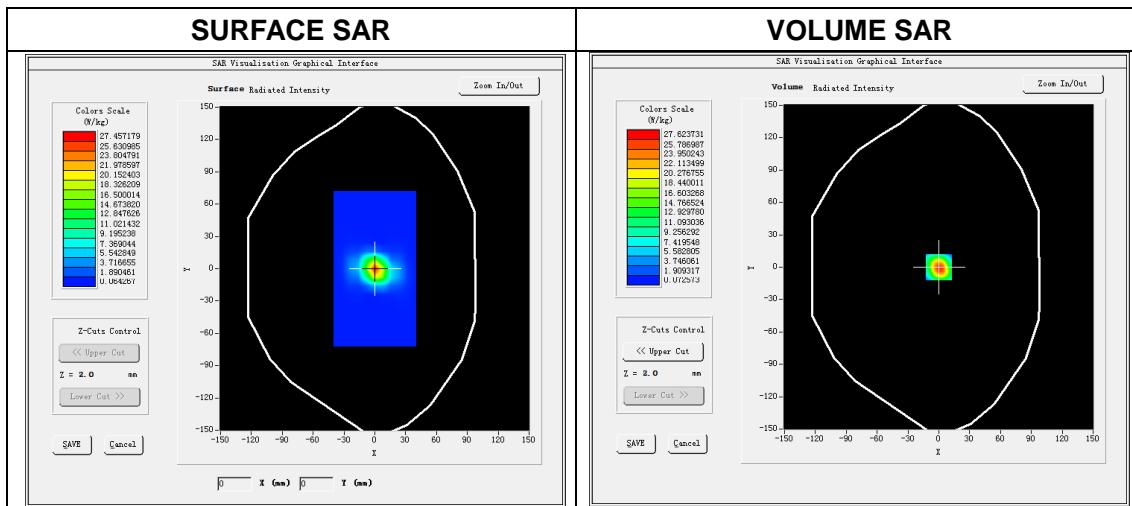
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2017.03.04

Measurement duration: 29 minutes 26 seconds

### Experimental conditions.

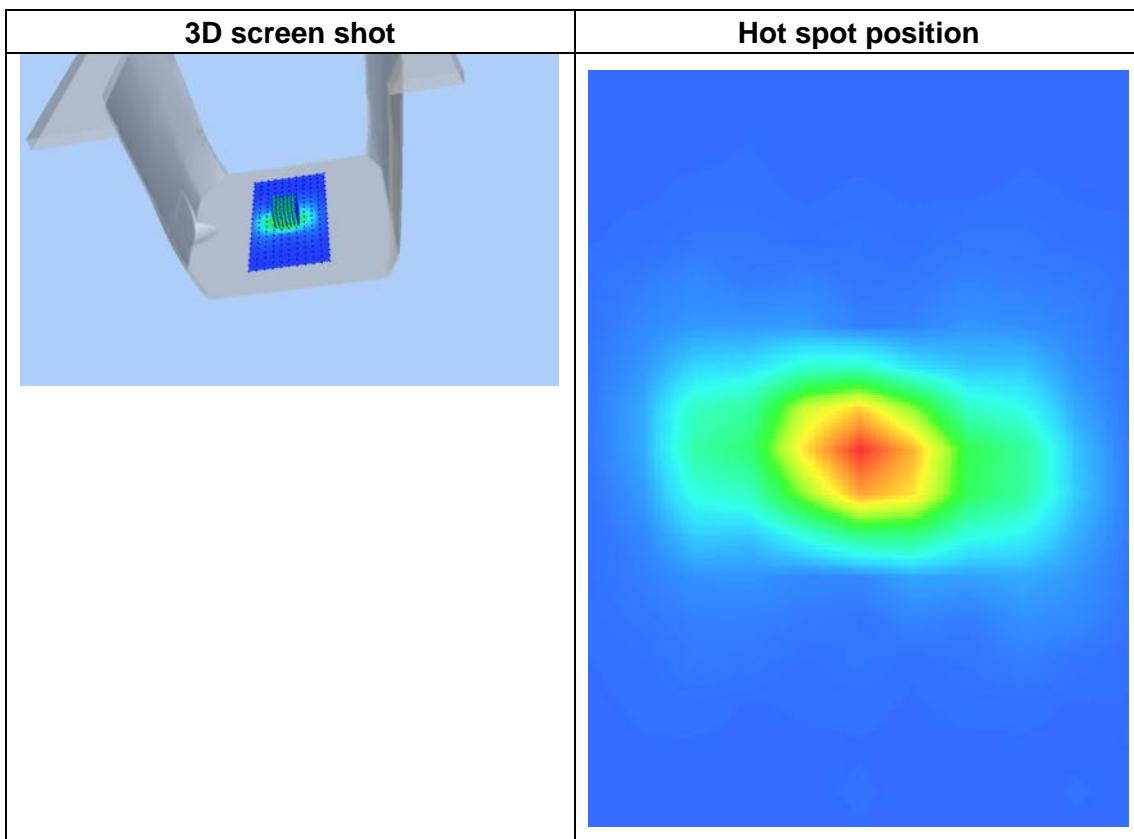
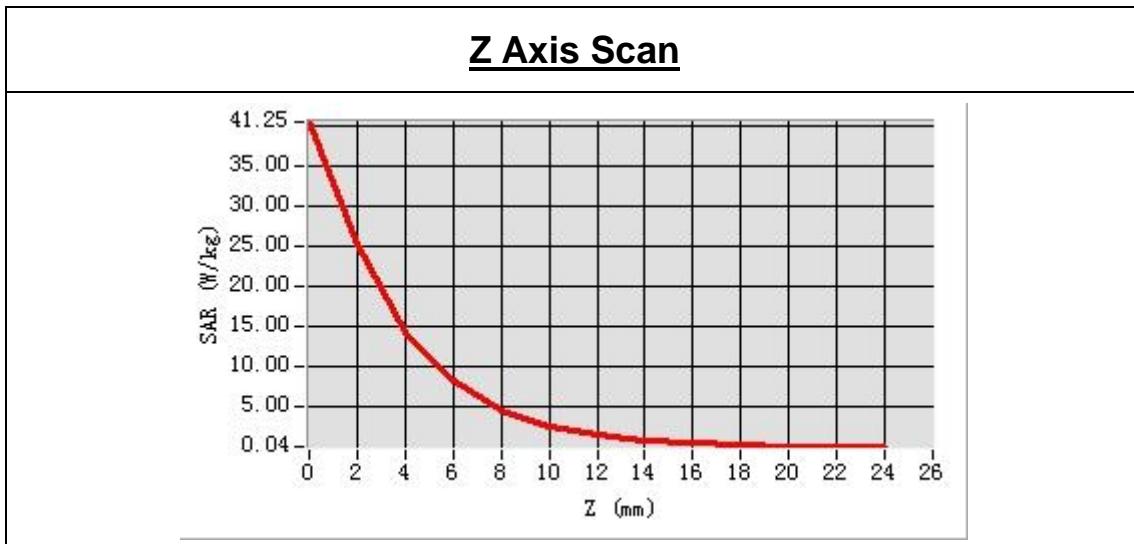
<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	5200 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	5200.000000
<b>Relative permittivity (real part)</b>	50.082542
<b>Conductivity (S/m)</b>	5.212548
<b>Power drift (%)</b>	0.680000
<b>Ambient Temperature:</b>	22.3°C
<b>Liquid Temperature:</b>	21.2°C
<b>ConvF:</b>	1.85
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00

SAR Peak: 40.52 W/kg

SAR 10g (W/Kg)	5.328147
SAR 1g (W/Kg)	15.226524



# System Performance Check Data (5400 MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

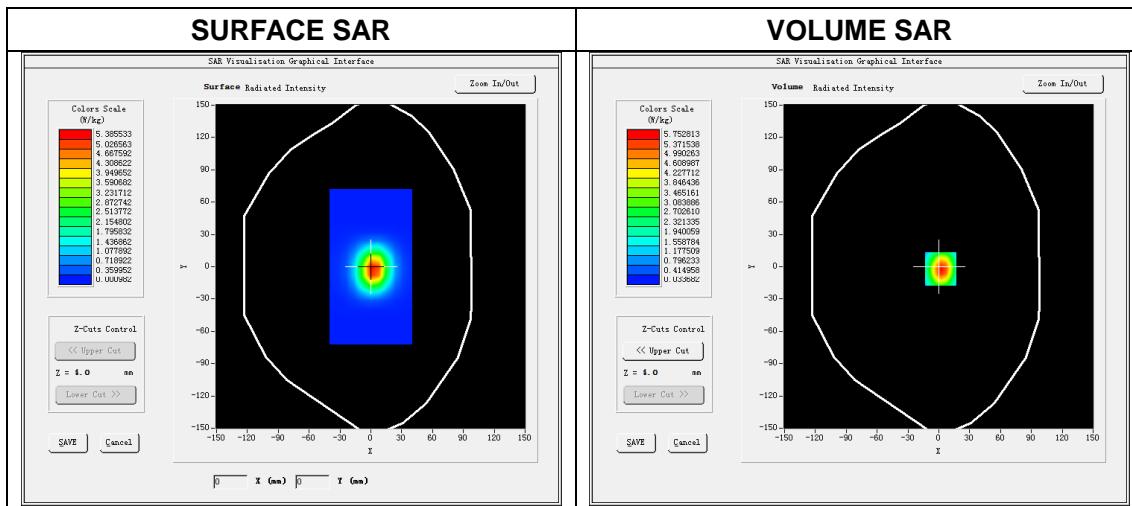
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2017.03.04

Measurement duration: 29 minutes 32 seconds

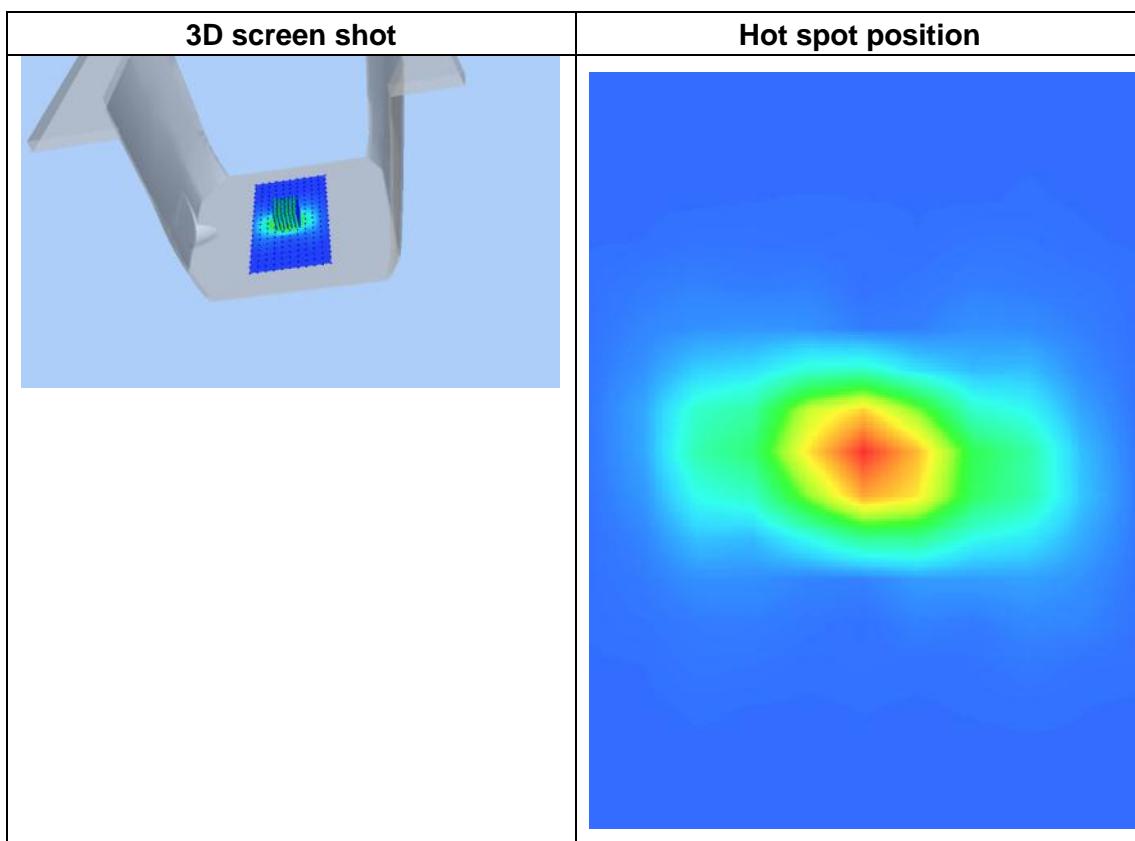
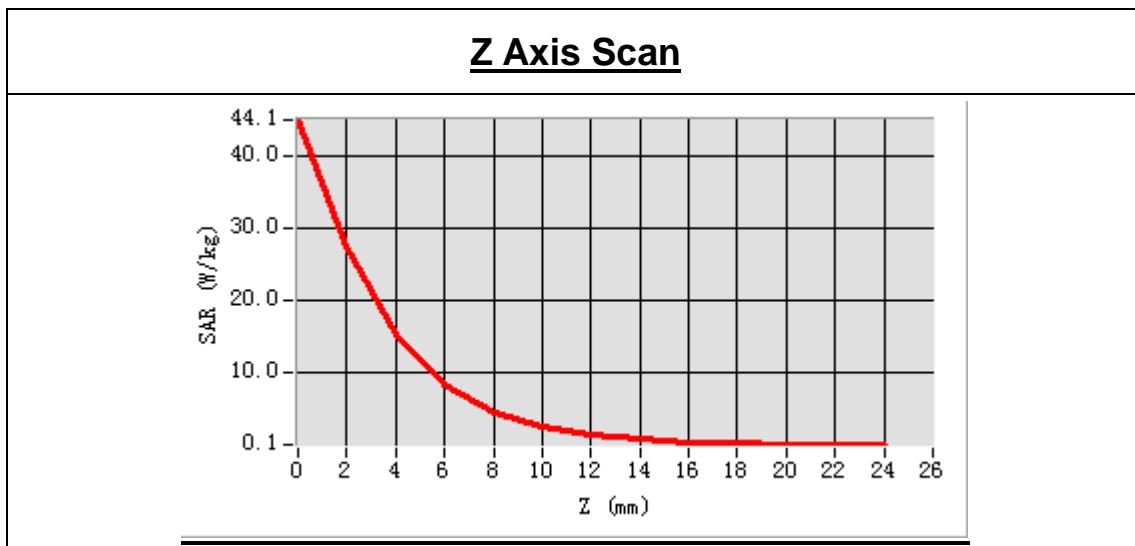
## Experimental conditions.

<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	5400 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	5400.000000
<b>Relative permittivity (real part)</b>	50.132355
<b>Conductivity (S/m)</b>	5.525699
<b>Power drift (%)</b>	0.160000
<b>Ambient Temperature:</b>	21.9°C
<b>Liquid Temperature:</b>	20.9°C
<b>ConvF:</b>	2.11
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00  
SAR Peak: 43.88 W/kg

SAR 10g (W/Kg)	5.602659
SAR 1g (W/Kg)	15.759821



# System Performance Check Data (5600 MHz Body )

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

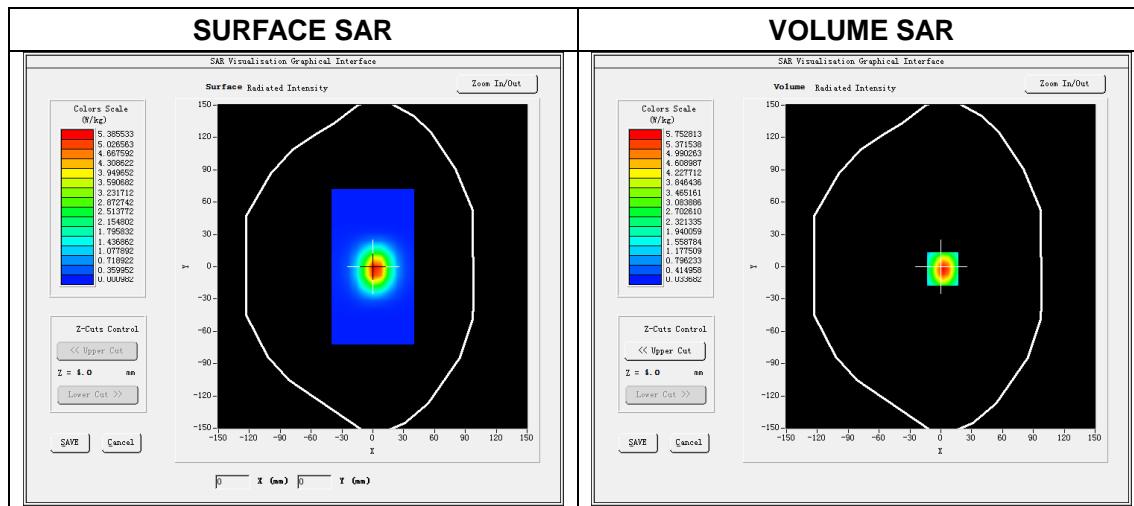
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2017.03.04

Measurement duration: 29 minutes 32 seconds

## Experimental conditions.

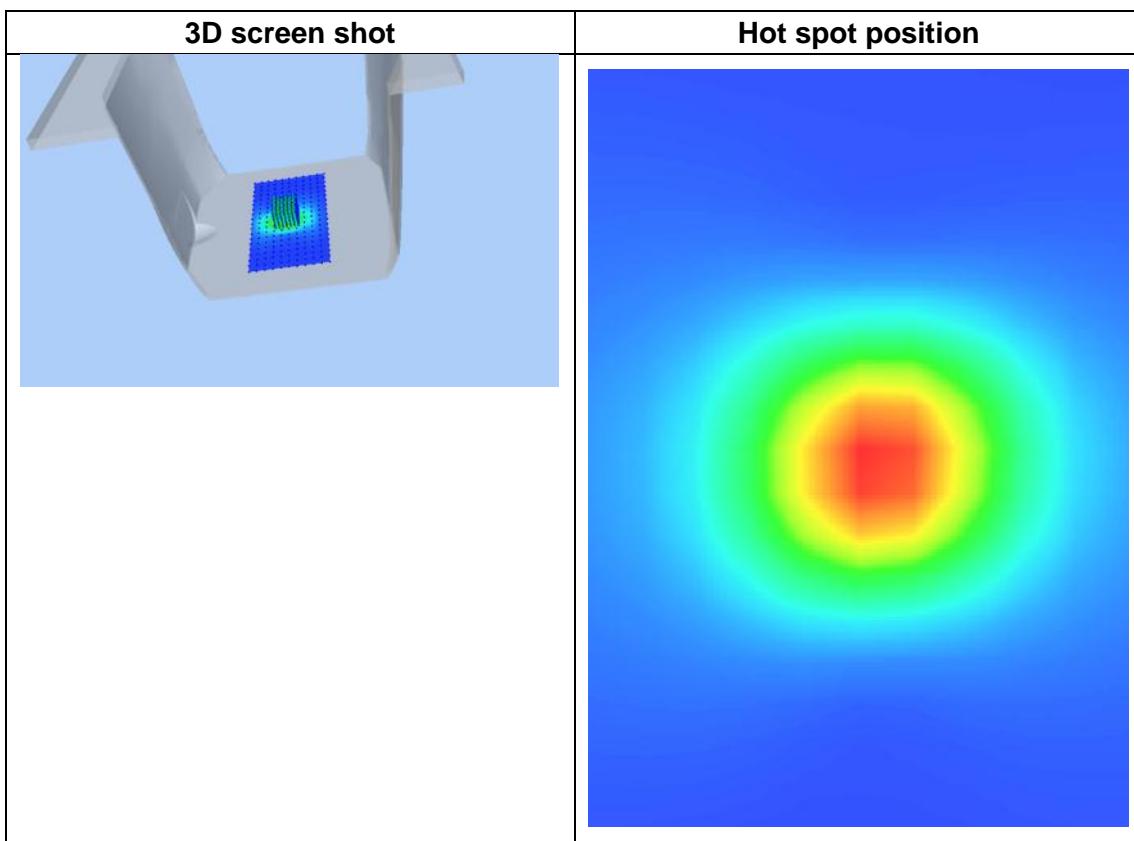
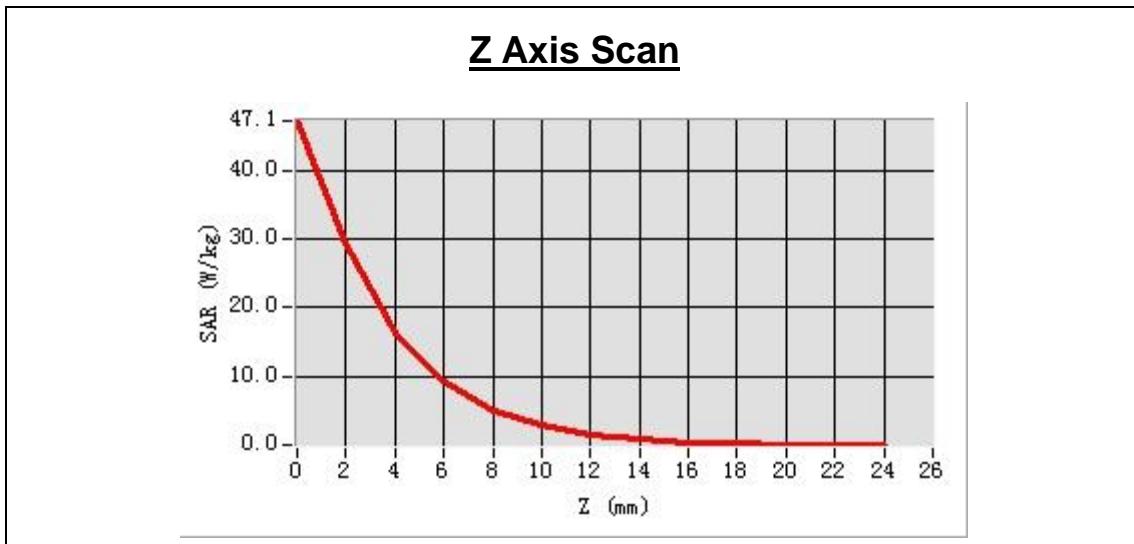
<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	5600 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	5600.000000
<b>Relative permittivity (real part)</b>	49.136522
<b>Conductivity (S/m)</b>	5.906785
<b>Power drift (%)</b>	1.20000
<b>Ambient Temperature:</b>	21.9°C
<b>Liquid Temperature:</b>	20.9°C
<b>ConvF:</b>	2.15
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00

SAR Peak: 46.38W/kg

SAR 10g (W/Kg)	5.643362
SAR 1g (W/Kg)	15.892147



# System Performance Check Data (5800 MHz Body )

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

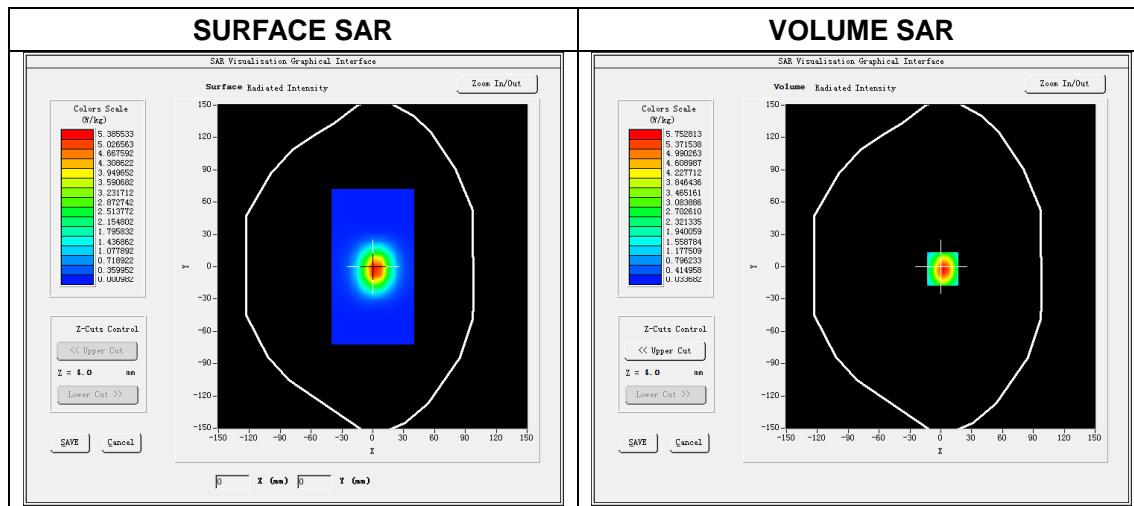
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2017.03.04

Measurement duration: 29 minutes 36 seconds

## Experimental conditions.

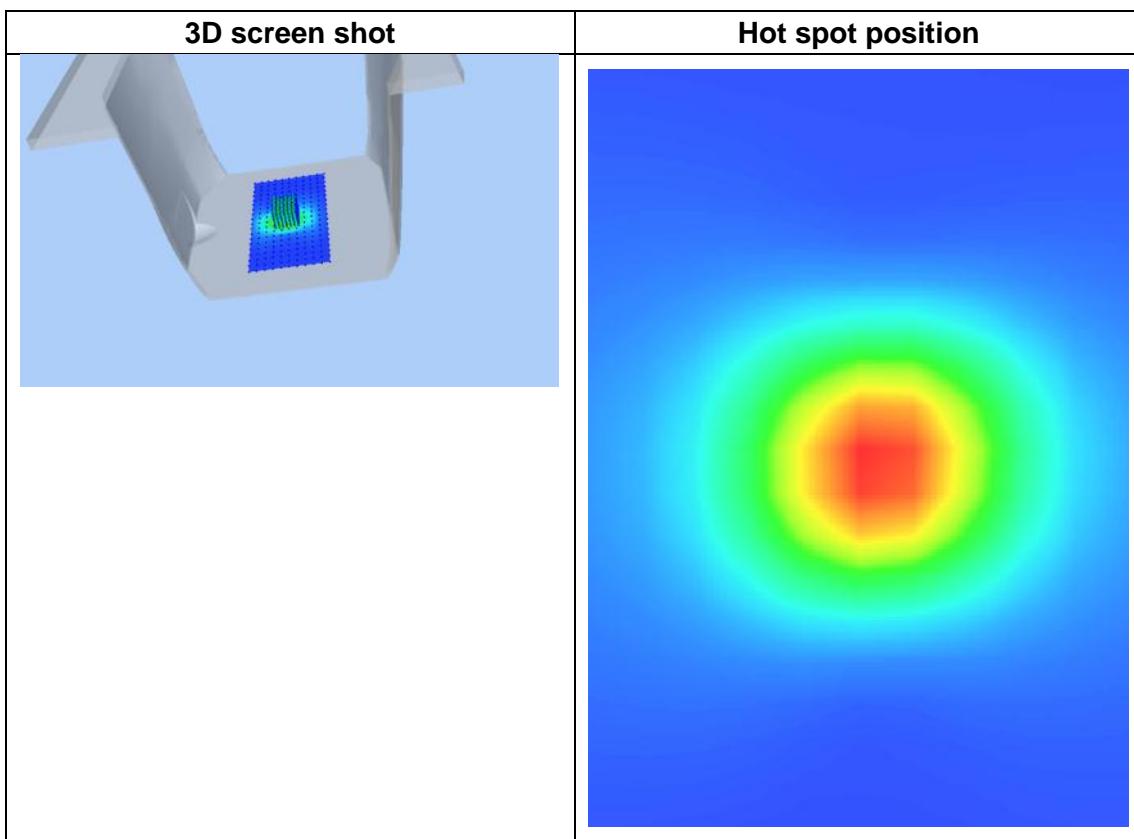
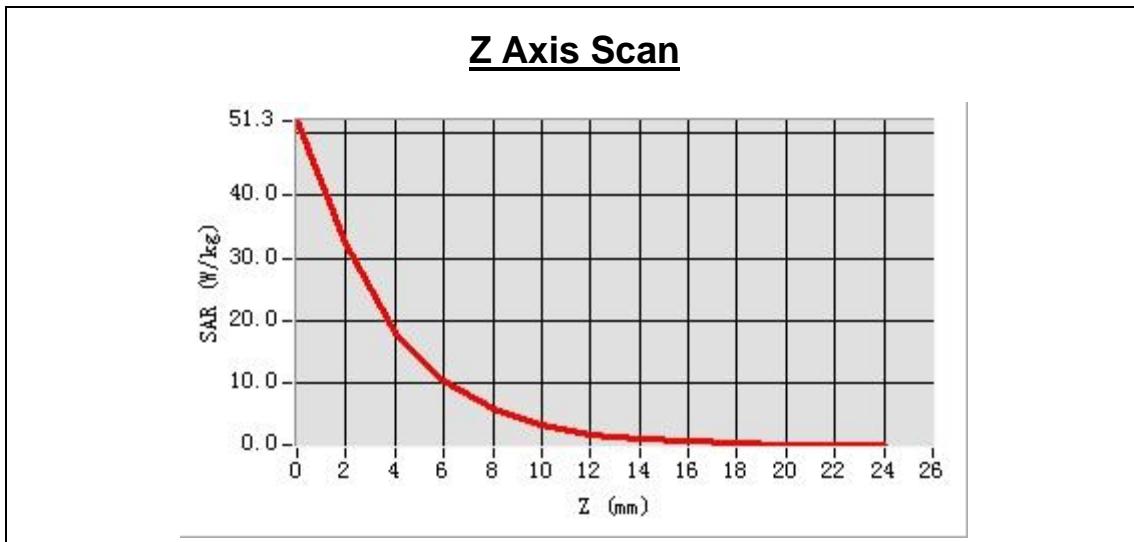
<b>Phantom File</b>	surf_sam_plan.txt
<b>Phantom</b>	Validation plane
<b>Band</b>	5800 MHz
<b>Signal</b>	CW
<b>Frequency (MHz)</b>	5800.000000
<b>Relative permittivity (real part)</b>	47.536522
<b>Conductivity (S/m)</b>	6.052548
<b>Power drift (%)</b>	0.130000
<b>Ambient Temperature:</b>	21.9°C
<b>Liquid Temperature:</b>	20.9°C
<b>ConvF:</b>	1.93
<b>Crest factor:</b>	1:1



Maximum location: X=0.00, Y=0.00

SAR Peak: 50.15W/kg

SAR 10g (W/Kg)	5.842582
SAR 1g (W/Kg)	16.971256



--END OF REPORT--