



FCC SAR TEST REPORT

Report No: STS1601014H01

Issued for

VSN Technologies Inc

1975 E. Sunrise Blvd., Suite 400, Fort Lauderdale, United States

Product Name:	LTE smart phone
Brand Name:	VSN
Model No.:	V.40R
Series Model:	N/A
FCC ID:	2AA9WV1003
	ANSI/IEEE Std. C95.1
Test Standard:	FCC 47 CFR Part 2 (2.1093)
	IEEE 1528: 2013
Max. Reported	Head:0.781 W/kg
SAR (1g):	Body:0.816 W/kg

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Test Report Certification

Applicant's name: VSN Technologies Inc

Address: 1975 E. Sunrise Blvd., Suite 400, Fort Lauderdale, United States

Manufacture's Name: Skycom Telecommunications Co., Limited

Address: Rm604, East Block, Shengtang Bldg., No.1, Tairan 9 Rd., Chegongmiao, Futian District, Shenzhen, China

Product description

Product name: LTE smart phone

Trademark: VSN

Model and/or type reference : V.40R

Serial Model: N/A

ANSI/IEEE Std. C95.1-1992

Standards :: FCC 47 CFR Part 2 (2.1093)
IEEE 1528: 2013

The device was tested by Shenzhen STS Test Services Co., Ltd. in accordance with the measurement methods and procedures specified in KDB 865664 The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Date of Test :: 15 Jan. 2016

Date of Issue :: 19 Jan. 2016

Test Result :: Pass

Technical Manager:

Authorized Signatory:

Allen Chen

(Allen Chen)

(Allen Chen)

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(Allen Chen)

(Allen Chen)

(Bovey Yang)



TABLE OF CONTENS

General Information	4
1.1 EUT Description	4
1.2 Test Environment	6
1.3 Test Facility	6
2. Test Standards And Limits	7
3. SAR Measurement System	8
3.1 Definition Of Specific Absorption Rate (SAR)	8
3.2 SAR System	8
3.2.1 Probe	9
3.2.2 Phantom	10
3.2.3 Device Holder	10
4. Tissue Simulating Liquids	11
4.1 Simulating Liquids Parameter Check	11
5. SAR System Validation	13
5.1 Validation System	13
5.2 Validation Result	13
6. SAR Evaluation Procedures	14
7. EUT Antenna Location Sketch	15
7.1 SAR TEST EXCLUSION CONSIDER TABLE	16
8. EUT Test Position	18
8.1 Define Two Imaginary Lines On The Handset	18
8.2 Hotspot mode exposure position condition	19
9. Uncertainty	20
9.1 Measurement Uncertainty	20
9.2 System validation Uncertainty	22
10. Conducted Power Measurement	24
11. EUT And Test Setup Photo	36
11.1 EUT Photo	36
11.2 Setup Photo	39
12. SAR Result Summary	45
12.1 Head SAR	45
12.2 Body SAR And Hotspot	47
12.3 repeated SAR measurement	49
13. Equipment List	52
Appendix A. System Validation Plots	53
Appendix B. SAR Test Plots	77
Appendix C. Probe Calibration And Dipole Calibration Report	172





1. General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

1.1 EUT Descri	LTE smart phone									
Brand Name	VSN									
Model No.	V.40R									
Serial Model		V.40R N/A								
FCC ID		2AA9WV1003								
Model Difference	N/A									
Adapter	Input: /	N/A Input: AC100-240V,200m A, 50/60 Hz Output: DC 5V, 1000mA								
Battery	Rated Charge	Voltage: 3.8V e Limit: 4.35V ity: 2000mAh								
Hardware Version	V01									
Software Version	N/A									
Frequency Range	PCS19 WCDM II:1852 WCDM WCDM LTE Ba	GSM 850: 824.2~848.8MHz PCS1900: 1850.2~1909.8MHz WCDMA Band II:1852.4~1907.6MHz WCDMA IV:1712.4~1752.6 MHz WCDMA Band V:826.4~846.6MHz LTE Band 2:1850.7~1909.3MHz LTE Band 4:1710.7~1754.3MHz LTE Band 7:2502.5~2567.5MHz LTE Band 17:706.5~713.5MHz WLAN 802.11b/g/n(HT20):2412~2462MHz Bluetooth : 2402~2480MHz								
Transmit Power(MAX):	GSM 1 WCDM WCDM WCDM LTE Ba	GSM 850: 31.57 dBm GSM 1900: 29.20 dBm WCDMA Band II: 20.79 dBm WCDMA Band IV: 21.33 dBm WCDMA Band V: 21.72 dBm UTE Band 7: 23.20 dBm 802.11b: 16.27 dBm 802.11g: 14.5 dBm 802.11n(HT20): 14.4 dBm 802.11n(HT40): 13.1 dBm Bluetooth: 6.531 dBm								
	Band	Mode	Head (W/kg)	Body (W/kg)						
	PCE	GSM 850	0.325	0.522						
	PCE	GSM 1900	0.472	0.630						
	PCE	WCDMA Band II	0.676	0.690						
	PCE	WCDMA Band IV	0.781	0.654						
Max. Reported	PCE	WCDMA Band V	0.267	0.277						
SAR(1g):	PCE	LTE Band 2	0.560	0.568						
	PCE	LTE Band 4	0.577	0.816						
	PCE	LTE Band 7	0.348	0.762						
	PCE	LTE Band 17	0.566	0.632						
	DTS	WIFI	0.479	0.336						
	DSS	Bluetooth ^{Note}	0.214	0.107						
1-g Sum SAR(W/k			1.260	1.152						
FCC Equipment Class	Part 15	ed Portable Transmitter 5 Spread Spectrum Tra Transmission System (nsmitter (DSS)							



Page 5 of 172 Report No.: STS1601014H01

Antenna GSM WCDMA LTE: DIFA Antenna	C	Operating Mode:	GSM: GSM Voice; GPRS, EGPRS Class 12; WCDMA:RMC,HSDPA,HSUPA Release 6; LTE:QPSK,16QAM; WLAN: 802.11 b/g/n(HT20) /n(HT40); Bluetooth: V4.0 + EDR (GFSK +π/4DQPSK+8DPSK);
Specification: BT,WIFI: PIFA Antenna		Antenna Specification:	GSM,WCDMA,LTE: PIFA Antenna BT,WIFI: PIFA Antenna
Hotspot Mode: Support	H	Hotspot Mode:	Support
DTM Mode: Not Support			Not Support

Note:

- 1. Bluetooth SAR was estimated
- 2. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power







1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required	Actual
Temperature (°C)	18-25	22~23
Humidity (%RH)	30-70	55~65

1.3 Test Facility

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F, Building B, Zhuoke Science Park, No. 190, Chongqing Road, Fuyong,

Baoan District, Shenzhen, Guangdong, China

CNAS Registration No.: L7649;

FCC Registration No.: 842334; IC Registration No.: 12108A-1







2. Test Standards And Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r04	SAR for LTE Devices
9	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR
10	FCC KDB 248227 D01 v02r02	SAR Considerations for 802.11 Devices
11	FCC KDB 648474 D04 v01r03	SAR evaluation consideration for wireless handsets

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. According to 1999/519/EC the limit for General Population/ Uncontrolled exposure should be applied for this device, it is 2.0 W/kg as averaged over any 10 gram of tissue.

(A). Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.4 8.0 20.0

(B). Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.08 1.6 4.0

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 10 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

NOTE GENERAL POPULATION/UNCONTROLLED EXPOSURE PARTIAL BODY LIMIT 1.6 W/kg



3. SAR Measurement System

3.1 Definition Of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

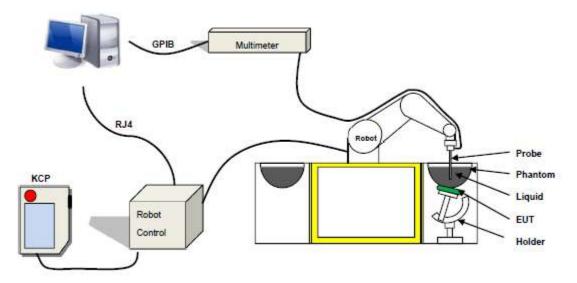
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

 $\boldsymbol{\rho}$ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

SATIMO SAR System Diagram:



Comosar is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The Comosar system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue



The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 17/14 EP221 with following specifications is used

- Dynamic range: 0.01-100 W/kg
- Tip Diameter :5 mm
- Distance between probe tip and sensor center: 2.7mm
- Distance between sensor center and the inner phantom surface: 4 mm (repeatability better than +/- 1mm)
- Probe linearity: < 0.25 dB
- Axial Isotropy: < 0.25 dB
- Spherical Isotropy: < 0.25 dB
- Calibration range: 450MHz to 2600MHz for head & body simulating liquid. Angle between probe axis (evaluation axis) and suface normal line:less than 30°



Figure 1 – Satimo COMOSAR Dosimetric E field Dipole



3.2.2 Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



SN 32/14 SAM116

3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of \pm 0.5 mm would produce a SAR uncertainty of \pm 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.4. Tissue Simulating Liquids





4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

Frequency	Bactericid e	DGBE	HEC	NaCl	Sucrose	X100	Water	Conductivity	Permittivity
(MHz)	%	%	%	%	%	%	%	σ	εr
835	0.10	/	1.00	1.45	57.00	/	40.45	0.90	41.6
900	0.10	/	1.00	1.48	56.50	/	40.92	0.98	41.2
1800	/	44.92	/	0.18	/	/	54.9	1.40	40.4
1900	/	44.92	1	0.18	1	/	54.9	1.42	39.9
2100	/	50.0	1	1	/	/	50.0	1.51	36.8
2450	/	7.99	1	0.16	1	/	50.0	1.88	40.3

Tissue dielectric parameters for head and body phantoms							
Frequency	3	r	σ S/m				
, ,	Head	Body	Head	Body			
300	45.3	58.2	0.87	0.92			
450	43.5	58.7	0.87	0.94			
900	41.5	55.0	0.97	1.05			
1450	40.5	54.0	1.20	1.30			
1800	40.0	53.3	1.40	1.52			
2450	39.2	52.7	1.80	1.95			
3000	38.5	52.0	2.40	2.73			
5800	35.3	48.2	5.27	6.00			





LIQUID MEASUREMENT RESULTS

Date: 15 Jan, 2016 Ambient condition: Temperature 22.7°C Relative humidity: 49%

Head Simulating Liquid		Parameters	Target	Measured	Deviation[%]	Limited[%]	
Frequency	Temp. [°C]	- Tarameters	r arameters ranger ivieast		Beviation[70]	Elimico[/0]	
750 MHz	22.30	Permitivity:	41.9	41.2	-1.67	±5	
750 MH2	22.30	Conductivity:	0.89	0.91	2.25	± 5	
925 MU-	22.20	Permitivity:	41.50	41	-1.20	±5	
835 MHz	22.30	Conductivity:	0.90	0.86	-4.44	± 5	
4000 MH-	00.00	Permitivity:	40.10	40.2	0.25	±5	
1800 MHz	22.30	Conductivity:	1.37	1.31	-4.38	± 5	
4000 MILE	00.00	Permitivity:	40.00	39.5	-1.25	± 5	
1900 MHz	22.30	Conductivity:	1.40	1.43	2.14	± 5	
0450 MI I-	00.00	Permitivity:	39.2	39.18	-0.05	± 5	
2450 MHz	22.30	Conductivity:	1.80	1.88	4.44	± 5	
2600 MH-	22.20	Permitivity:	39.0	38.5	-1.28	± 5	
2600 MHz	22.30	Conductivity:	1.96	1.92	-2.04	± 5	

Body Simu	Body Simulating Liquid		_			
Frequency	Temp. [°C]	Parameters	Target	Measured	Deviation[%]	Limited[%]
750 MHz	22.30	Permitivity:	55.50	55.26	-0.43	± 5
750 MH2	22.30	Conductivity:	0.96	0.91	-5.21	± 5
835 MHz	22.30	Permitivity:	55.20	54.7	-0.91	± 5
035 IVITZ	22.30	Conductivity:	0.97	0.98	1.03	± 5
4000 MH=	22.30	Permitivity:	53.40	52.6	-1.50	± 5
1800 MHz 22.30	22.30	Conductivity:	1.49	1.38	-7.38	± 5
1000 MH=	22.20	Permitivity:	53.30	52.31	-1.86	± 5
1900 MHz	22.30	Conductivity:	1.52	1.50	-1.32	± 5
2450 MU-	22.20	Permitivity:	52.7	51.6	-2.09	± 5
2450 MHz	22.30	Conductivity:	1.95	1.93	-1.03	± 5
	22.20	Permitivity:	52.5	52.3	-0.38	± 5
2600 MHz	22.30	Conductivity:	2.16	2.12	-1.85	± 5



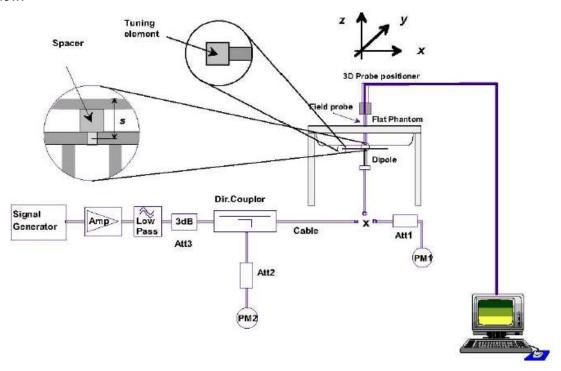


5. SAR System Validation

5.1 Validation System

Each SATIMO system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the SATIMO software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.



5.2 Validation Result

Comparing to the original SAR value provided by SATIMO, the validation data should be within its specification of 10 %.

Ambient condition: Temperature 22.7°C Relative humidity: 49%

Freq.(MHz)	Power(mW)	Tested Value (W/Kg)	Normalized SAR (W/kg)	Target(W/Kg)	Tolerance(%)	Date
750 Head	100	0.838	8.38	8.49	-1.30	2016-01-15
750 Body	100	0.856	8.56	8.49	0.82	2016-01-15
835 Head	100	0.937	9.37	9.56	-1.99	2016-01-15
835 Body	100	0.947	9.47	9.56	-0.94	2016-01-15
1800 Head	100	3.76	37.6	38.4	-2.08	2016-01-15
1800 Body	100	3.88	38.8	38.4	1.04	2016-01-15
1900 Head	100	3.86	38.6	39.7	-2.77	2016-01-15
1900 Body	100	3.987	39.87	39.7	0.43	2016-01-15
2450 Head	100	5.593	55.93	52.4	6.74	2016-01-15
2450 Body	100	4.864	48.64	52.4	-7.18	2016-01-15
2600 Head	100	5.45	54.5	55.3	-1.45	2016-01-15
2600 Body	100	5.41	54.1	55.3	-2.17	2016-01-15

Note: The tolerance limit of System validation ±10%.

Report No.: STS1601014H01



6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps: The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

Area Scan& Zoom Scan

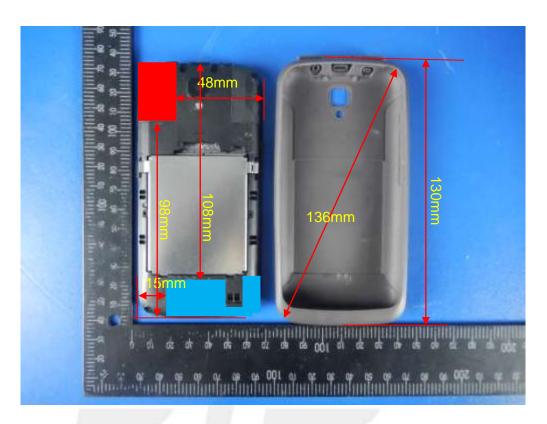
First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below.

When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.



7. EUT Antenna Location Sketch

It is a LTE smart phone, support GSM/WCDMA/LTE mode.



The length of the diagonal is136mm.



WWAN Antenna



WIFI/BT Antenna



7.1 SAR TEST EXCLUSION CONSIDER TABLE

According with FCC KDB 447498 D01, appendix A, <SAR test exclusion thresholds for 100 MHz~6GHz and≤50mm>table, this device SAR test configurations consider as following:

Donal	Test position configurations								
Band	Front	Back	Right edge	Left edge	Top edge	Bottom edge			
CCMOEO	<5mm	<5mm	15mm	<5mm	108mm	<5mm			
GSM850	Yes	Yes	Yes	Yes	No	Yes			
GSM1900	<5mm	<5mm	15mm	<5mm	108mm	<5mm			
G3W1900	Yes	Yes	Yes	Yes	No	Yes			
WCDMA	<5mm	<5mm	15mm	<5mm	108mm	<5mm			
Band II	Yes	Yes	Yes	Yes	No	Yes			
WCDMA	<5mm	<5mm	15mm	<5mm	108mm	<5mm			
Band IV	Yes	Yes	Yes	Yes	No	Yes			
WCDMA	<5mm	<5mm	15mm	<5mm	108mm	<5mm			
Band V	Yes	Yes	Yes	Yes	No	Yes			
LTE Band	<5mm	<5mm	15mm	<5mm	108mm	<5mm			
2	Yes	Yes	Yes	Yes	No	Yes			
LTE Band	<5mm	<5mm	15mm	<5mm	108mm	<5mm			
4	Yes	Yes	Yes	Yes	No	Yes			
LTE Band	<5mm	<5mm	15mm	<5mm	108mm	<5mm			
7	Yes	Yes	Yes	Yes	No	Yes			
LTE Band	<5mm	<5mm	15mm	<5mm	108mm	<5mm			
17	Yes	Yes	Yes	Yes	No	Yes			
WLAN	<5mm	<5mm	<5mm	48mm	<5mm	98mm			
VVLAIN	Yes	Yes	Yes	No	Yes	No			
Bluetooth	<5mm	<5mm	<5mm	48mm	<5mm	98mm			
Dideloom	Yes	Yes	Yes	No	Yes	No			

Note:

- 1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
- 2. per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- 3. per KDB 447498 D01, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <5mm, 5mm is user to determine SAR exclusion threshold
- 4. per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance ≤50mm are determined by:

[(max.power of channel, including tune-up tolerance, Mw)/(min. test separation distance, mm)]*[$\sqrt{f(GHZ)}$) \leq 3.0 for 1-g SAR and \leq 7.5 for10-g extremity SAR f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation





1500MHz and≤6GHz

The result is rounded to one decimal place for comparison

For <50mm distance, we just calculate mW of the exclusion threshold value(3.0)to do compare

- 5. per KDB 447498 D01, at 100 MHz to 6GHz and for test separation distances >50mm, the SAR test exclusion threshold is determined according to the following a)[threshold at 50mm in step 1]+(test separation distance -50mm)*(f (MHz)/150)]Mw, at 100 MHz to 1500 MHz
 b) [threshold at 50mm in step1]+(test separation distance -50mm) *10]mW at>
- 6. Per KDB 447498 D02, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA/HSUPA/DC-HSDPA output power is<0.25db higher than RMC 12.2Kbps,or reported SAR with RMC 12.2kbps setting is ≤1.2W/Kg, HSDPA/HSUPA/DC-HSDPA SAR evaluation can be excluded.
- 7. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine futher SAR exclusion 8.for each frequency band ,testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode ,thus the SAR can be excluded.

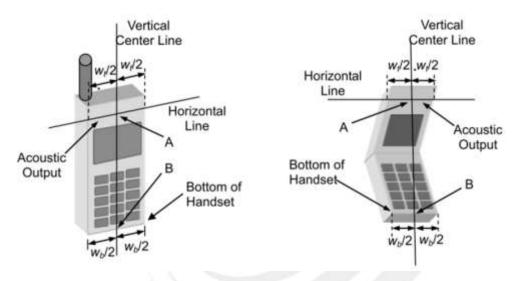


8. EUT Test Position

This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

8.1 Define Two Imaginary Lines On The Handset

- (1) The vertical centerline passes through two points on the front side of the handset the midpoint of the width wt of the handset at the level of the acoustic output, and the midpoint of the width wb of the handset.
- (2) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (3) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



Cheek Position

- 1)To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- 2)To move the device towards the phantom with the ear piece aligned with the the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost



Title Position

- (1)To position the device in the "cheek" position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.

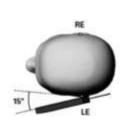












Body-worn Position Conditions

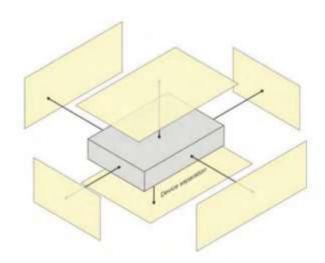
- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to 5mm.





8.2 Hotspot mode exposure position condition

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing function, the relevant hand and body exposure condition are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surface and edges with a transmitting antenna located within 25 mm form that surface or edge. When form factor of a handset is smaller than 9cm x 5cm, a test separation distance of 5mm(instead of 10mm)is required for testing hotspot mode. When the separate distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration(surface).







9. Uncertainty

9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

NO	Source	Tol(%)	Prob. Dist.	Div. k	ci (1g)	ci (10g)	1gUi	10gUi	Veff		
Nate	Masurement System										
1	Probe calibration	5.8	Ν	1	1	1	5.8	5.8	8		
2	Axial isotropy	3.5	R	√3	(1-cp) ^{1/2}	(1-cp) ^{1/2}	1.43	1.43	80		
3	Hemispherical isotropy	5.9	R	√3	√Cp	√Cp	2.41	2.41	∞		
4	Boundary effect	1.0	R	√3	1	1	0.58	0.58	∞		
5	Linearity	4.7	R	√3	1	1	2.71	2.71	80		
6	System Detection limits	1.0	R	√3	1	1	0.58	0.58	80		
7	Readout electronics	0.5	N	1	1	1	0.50	0.50	8		
8	Response time	0	R	√3	1	1	0	0	8		
9	Integration time	1.4	R	√3	1	1	0.81	0.81	8		
10	Ambient noise	3.0	R	√3	1	1	1.73	1.73	8		
11	Ambient reflections	3.0	R	√3	1	1	1.73	1.73	∞		
12	Probe positioner mech. restrictions	1.4	R	√3	1	1	0.81	0.81	∞		
13	Probe positioning with respect to phantom shell	1.4	R	√3	1	1	0.81	0.81	8		
14	Max.SAR evaluation	1.0	R	√3	1	1	0.6	0.6	8		



			Page 21 of 172 Repo			ort No.: STS1601014H01			
15	Device positioning	2.6	N	1	1	1	2.6	2.6	11
16	Device holder	3	N	1	1	1	3.0	3.0	7
17	Drift of output power	5.0	R	√3	1	1	2.89	2.89	8
Phant	om and set-up								
18	Phantom uncertainty	4.0	R	√3	1	1	2.31	2.31	8
19	Liquid conductivity (target)	2.5	N	1	0.78	0.71	1.95	1.78	5
20	Liquid conductivity (meas)	4	N	1	0.23	0.26	0.92	1.04	5
21	Liquid Permittivity (target)	2.5	N	1	0.78	0.71	1.95	1.78	8
22	Liquid Permittivity (meas)	5.0	N	1	0.23	0.26	1.15	1.30	80
Comb	Combined standard RSS		RSS	$U_{C} = \sqrt{\sum_{i=1}^{n} C_{i}^{2} U_{i}^{2}}$		2	10.63%	10.54%	
Expanded uncertainty (P=95%)			7	$U = k \ U_C$,k=	2		21.26%	21.08%	





9.2 System validation Uncertainty

							I			
NO	Source	Tol(%)	Prob. Dist.	Div. k	ci (1g)	ci (10g)	1gUi	10gUi	Veff	
Mea	Masurenert System									
1	Probe calibration	5.8	Ν	1	1	1	5.8	5.8	∞	
2	Axial isotropy	3.5	R	√3	(1-cp) ^{1/2}	(1-cp) ^{1/2}	1.43	1.43	8	
3	Hemispherical isotropy	5.9	R	√3	√Cp	√Cp	2.41	2.41	∞	
4	Boundary effect	1.0	R	√3	1	1	0.58	0.58	∞	
5	Linearity	4.7	R	√3	1	1	2.71	2.71	∞	
6	System Detection limits	1.0	R	√3	1	1	0.58	0.58	∞	
7	Modulation response	0	N	1	1	1	0	0	∞	
8	Readout electronics	0.5	N	11	1	1	0.50	0.50	∞	
9	Response time	0	R	√3	1	1	0	0	∞	
10	Integration time	1.4	R	√3	1	1	0.81	0.81	∞	
11	Ambient noise	3.0	R	√3	1	1	1.73	1.73	∞	
12	Ambient reflections	3.0	R	√3	1	1	1.73	1.73	∞	
13	Probe positioner mech. restrictions	1.4	R	√3	1	1	0.81	0.81	∞	
14	Probe positioning with respect to phantom shell	1.4	R	√3	1	1	0.81	0.81	∞	
15	Max.SAR evaluation	1.0	R	√3	1	1	0.6	0.6	∞	
Dipole										
16	Deviation of experimental source from	4	N	1	1	1	4.00	4.00	∞	



Page 23 of 172 Report No.: STS1601014H01 Input power and 17 SAR drit 5 R √3 1 1 2.89 2.89 ∞ measurement Dipole Axis to √3 ∞ 18 2 R 1 1 liquid Distance Phantom and set-up Phantom 19 4.0 R √3 2.31 2.31 1 1 ∞ uncertainty Uncertainty in SAR correction for 20 2.0 Ν 1 1 0.84 2 1.68 ∞ deviation(in Liquid conductivity 21 2 1 0.84 2.00 1.68 Ν 1 (target) Liquid conductivity 22 1 0.78 (temperature 2.5 Ν 0.71 1.95 1.78 5 uncertainty) Liquid conductivity 23 4 Ν 0.23 0.26 0.92 1.04 5 (meas) Liquid Permittivity 24 2.5 Ν 0.78 0.71 1.95 1.78 (target) Liquid Permittivity 25 (temperature 2.5 Ν 1 0.78 0.71 1.95 1.78 5 uncertainty) Liquid Permittivity 1 ∞ 26 5.0 N 0.23 0.26 1.15 1.30 (meas) $U_{C} = \sqrt{\sum_{i=1}^{n} C_{i}^{2} U_{i}^{2}}$ 10.15% Combined standard **RSS** 10.05% U = k $U_{\it C}$,k=2 Expanded uncertainty 20.29% 20.10%

(P=95%)



10. Conducted Power Measurement

Test Result:

Burst Average Power (dBm)									
Band		GSM 850			PCS 1900				
Channel	128	190	251	512	661	810			
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8			
GSM(GMSK, 1-Slot)	31.54	31.57	31.56	27.80	28.72	29.20			
GPRS (GMSK, 1-Slot)	31.50	31.54	31.47	27.80	28.67	29.13			
GPRS (GMSK, 2-Slot)	30.62	30.62	30.62	26.96	27.84	28.31			
GPRS (GMSK, 3-Slot)	29.33	29.30	29.23	25.63	26.53	26.94			
GPRS (GMSK, 4-Slot)	28.67	28.67	28.73	24.96	26.02	26.25			
EGPRS(8PSK, 1-Slot)	31.44	31.51	31.39	27.79	28.62	29.10			
EGPRS(8PSK, 2-Slot)	30.54	30.57	30.63	26.91	27.81	28.24			
EGPRS(8PSK, 3-Slot)	29.30	29.18	29.38	25.57	26.52	26.84			
EGPRS(8PSK, 4-Slot)	28.60	28.48	28.78	25.06	25.96	26.25			

Remark: GPRS, CS4 coding scheme. EGPRS, MCS9 coding scheme.

Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link

Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link

Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link

Frame- Average Power(dBm)									
Band		GSM 850		PCS 1900					
Channel	128	190	251	512	661	810			
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8			
GSM(GMSK, 1-Slot)	22.54	22.57	22.56	18.80	19.72	20.20			
GPRS (GMSK, 1-Slot)	22.50	22.54	22.47	18.80	19.67	20.13			
GPRS (GMSK, 2-Slot)	24.62	24.62	24.62	20.96	21.84	22.31			
GPRS (GMSK, 3-Slot)	25.07	25.04	24.97	21.37	22.27	22.68			
GPRS (GMSK, 4-Slot)	25.67	25.67	25.73	21.96	23.02	23.25			
EGPRS(8PSK, 1-Slot)	22.44	22.51	22.39	18.79	19.62	20.10			
EGPRS(8PSK, 2-Slot)	24.54	24.57	24.63	20.91	21.81	22.24			
EGPRS(8PSK, 3-Slot)	25.04	24.92	25.12	21.31	22.26	22.58			
EGPRS(8PSK, 4-Slot)	25.60	25.48	25.78	22.06	22.96	23.25			

Remark:

- 1. SAR testing was performed on the maximum frame-averaged power mode.
- 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum

burst-averaged power based on time slots. The calculated method is shown as below:

Frame-averaged power = Burst averaged power (1 Tx Slot) - 9 dB

Frame-averaged power = Burst averaged power (2 Tx Slots) - 6 dB

Frame-averaged power = Burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Burst averaged power (4 Tx Slots) - 3 dB





WCDMA

Band	WC	DMA Bar	nd V	WC	DMA Ban	d IV	WC	DMA Bar	nd II
Channel	4132	4183	4233	1312	1413	1513	9262	9400	9538
Frequency (MHz)	826.4	836.6	846.6	1712.4	1732.6	1752.6	1852.4	1880.0	1907.6
RMC 12.2Kbps	21.61	21.58	21.59	21.20	21.14	21.32	20.46	21.75	20.41
RMC 12.2Kbps	21.72	21.65	21.71	21.22	21.17	21.33	20.52	20.79	20.49
HSDPA Subtest-1	21.31	21.16	21.27	20.74	20.67	20.89	20.11	20.33	20.00
HSDPA Subtest-2	20.90	20.85	20.89	20.36	20.35	20.43	19.57	19.97	19.54
HSDPA Subtest-3	20.42	20.44	20.39	19.93	19.88	19.99	19.10	19.56	19.05
HSDPA Subtest-4	19.90	19.86	19.85	19.36	19.38	19.33	18.58	18.96	18.44
HSUPA Subtest-1	20.89	20.69	20.82	20.32	20.25	20.45	19.61	19.88	19.52
HSUPA Subtest-2	20.45	20.21	20.40	19.82	19.69	19.95	19.15	19.40	19.17
HSUPA Subtest-3	19.98	19.80	19.97	19.33	19.25	19.51	18.73	18.97	18.70
HSUPA Subtest-4	19.29	19.24	19.38	18.72	18.74	18.99	18.03	18.30	18.12
HSUPA Subtest-5	18.69	18.60	18.80	18.05	18.23	18.37	17.41	17.65	17.55

According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1A: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH	0≤ CM≤3.5	MAY(CM 1 O)
HS-DPDCH,E-DPDCH and E-DPCCH	0 < 0 N < 0.5	MAX(CM-1,0)

Note: CM=1 for $\beta c/\beta d=12/15$, $\beta hs/\beta c=24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH,

E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done. However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.



WIFI

Mode	Channel Number	Frequency (MHz)	PEAK Power (dBm)
	1	2412	16.13
802.11b	6	2437	16.27
	11	2462	16.26
	1	2412	13.4
802.11g	6	2437	14.2
	11	2462	14.5
	1	2412	13.4
802.11n(HT 20)	6	2437	14.3
	11	2462	14.4
	3	2422	11.7
802.11n(HT 40)	6	2437	13.1
	9	2452	12.9

Bluetooth

Mode	Channel Number	Frequency (MHz)	PEAK Power (dBm)
	0	2402	6.163
GFSK(1Mbps)	39	2441	5.724
	78	2480	6.531
	0	2402	4.948
π/4-DQPSK(2Mbps)	39	2441	4.445
	78	2480	5.306
	0	2402	5.093
8-DPSK(3Mbps)	39	2441	4.598
	78	2480	5.353

BT 4.0

Mode	Channel Number	Frequency (MHz)	PEAK Power (dBm)
	0	2402	-1.527
GFSK(1Mbps)	19	2422	-2.183
	39	2442	-1.373

Report No.: STS1601014H01



LTE Conducted Power

General Note:

- 1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
- 2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
- 3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- Per KDB 941225 D05v02r03, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- 6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
- 7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.



			RB	Power	Power	Power
BW(MHz)	Modulation	RB Size	Offset	Low	Middle	High
			Oliset	CH./Freq.	CH./Freq.	CH./Freq.
	Chanr	nel		18700	18900	19100
	Frequency	/(MHz)		1860	1880	1900
20	QPSK	1	0	23.62	23.47	23.54
20	QPSK	1	50	23.44	23.45	23.33
20	QPSK	1	99	23.46	23.61	23.32
20	QPSK	50	0	22.53	22.40	22.56
20	QPSK	50	24	22.50	22.45	22.56
20	QPSK	50	50	22.47	22.54	22.47
20	QPSK	100	0	22.49	22.47	22.54
20	16QAM	1	0	22.60	22.82	23.04
20	16QAM	1	50	22.46	22.76	22.93
20	16QAM	1	99	22.49	22.93	22.73
20	16QAM	50	0	21.57	21.42	21.57
20	16QAM	50	24	21.49	21.46	21.52
20	16QAM	50	50	21.51	21.51	21.44
20	16QAM	100	0	21.51	21.49	21.58
	Chanr	nel		18675	18900	19125
	Frequency	/(MHz)		1857.5	1880	1902.5
15	QPSK	1	0	23.60	23.44	23.49
15	QPSK	1	38	23.42	23.36	23.51
15	QPSK	1	75	23.41	23.56	23.31
15	QPSK	36	0	22.62	22.48	22.66
15	QPSK	36	18	22.55	22.53	22.58
15	QPSK	36	75	22.53	22.64	22.58
15	QPSK	75	0	22.59	22.59	22.63
15	16QAM	1	0	22.66	22.62	22.32
15	16QAM	1	38	22.57	22.53	22.33
15	16QAM	1	75	22.58	22.72	22.15
15	16QAM	36	0	21.64	21.46	21.64
15	16QAM	36	18	21.58	21.50	21.55
15	16QAM	36	75	21.55	21.58	21.52
15	16QAM	75	0	21.54	21.54	21.53
	Chanr	nel		18650	18900	19150
	Frequency	/(MHz)		1855	1880	1905
10	QPSK	1	0	23.58	23.42	23.55
10	QPSK	1	13	23.50	23.42	23.48
10	QPSK	1	24	23.29	23.48	23.25
10	QPSK	12	0	22.53	22.39	22.48
10	QPSK	12	6	22.50	22.40	22.44
10	QPSK	12	13	22.50	22.48	22.39
10	QPSK	25	0	22.50	22.43	22.45
10	16QAM	1	0	22.63	22.59	22.52
10	16QAM	1	13	22.59	22.57	22.44
10	16QAM	1	24	22.49	22.63	22.25
10	16QAM	12	0	21.61	21.45	21.59
10	16QAM	12	6	21.59	21.48	21.54
10	16QAM	12	13	21.58	21.49	21.46
10	16QAM	25	0	21.50	21.42	21.44



	Chanr	nel		18625	18900	19175
	Frequency			1852.5	1880	1907.5
5	QPSK	1	0	23.64	23.48	23.48
5	QPSK	: 1	13	23.55	23.42	23.35
5	QPSK	: 1	24	23.50	23.50	23.35
5	QPSK	12	0	22.60	22.45	22.45
5	QPSK	12	6	22.59	22.43	22.38
5	QPSK	12	13	22.56	22.46	22.36
5	QPSK	25	0	22.51	22.40	22.33
5	16QAM	1	0	22.60	22.56	22.73
5	16QAM	<u>.</u>	13	22.57	22.49	22.54
5	16QAM	. 1	24	22.54	22.55	22.48
5	16QAM	12	0	21.67	21.50	21.41
5	16QAM	12	6	21.63	21.48	21.34
5	16QAM	12	13	21.62	21.48	21.30
5	16QAM	25	0	21.60	21.38	21.31
	Chanr			18615	18900	19185
	Frequency			1851.5	1880	1908.5
3	QPSK	1	0	23.53	23.31	23.40
3	QPSK	<u>·</u> 1	8	23.48	23.28	23.31
3	QPSK	<u>·</u> 1	14	23.45	23.38	23.35
3	QPSK	8	0	22.61	22.44	22.40
3	QPSK	8	4	22.62	22.42	22.41
3	QPSK	8	8	22.58	22.44	22.37
3	QPSK	15	0	22.57	22.38	22.34
3	16QAM	1	0	22.58	22.51	22.28
3	16QAM	1	8	22.61	22.45	22.19
3	16QAM	1	14	22.53	22.56	22.19
3	16QAM	8	0	21.74	21.55	21.44
3	16QAM	8	4	21.72	21.53	21.39
	16QAM	8	8	21.71	21.54	21.39
3	16QAM	15	0	21.59	21.42	21.31
	Chanr	nel		18607	18900	19193
	Frequency	(MHz)		1850.7	1880	1909.3
1.4	QPSK	<u>`</u> 1	0	23.56	23.35	23.36
1.4	QPSK	1	3	23.57	23.36	23.39
1.4	QPSK	1	5	23.56	23.39	23.38
1.4	QPSK	3	0	23.56	23.40	23.26
1.4	QPSK	3	1	23.50	23.32	23.22
1.4	QPSK	3	3	23.52	23.39	23.25
1.4	QPSK	6	0	22.51	22.38	22.31
1.4	16QAM	1	0	22.39	22.50	22.23
1.4	16QAM	1	3	22.36	22.53	22.18
1.4	16QAM	1	5	22.35	22.56	22.21
1.4	16QAM	3	0	22.47	22.36	22.10
1.4	16QAM	3	1	22.44	22.25	22.03
1.4	16QAM	3	3	22.46	21.30	22.08
1.4	16QAM	6	0	21.56	21.38	21.26



			RB	Power	Power	Power
BW(MHz)	Modulation	RB Size	Offset	Low	Middle	High
			Oliset	CH./Freq.	CH./Freq.	CH./Freq.
	Chanr	nel	20050	20175	20300	
	Frequency	(MHz)	1720	1732.5	1745	
20	QPSK	1	0	23.85	23.90	24.00
20	QPSK	1	50	23.81	23.98	24.15
20	QPSK	1	99	23.94	24.11	24.28
20	QPSK	50	0	22.78	22.89	23.07
20	QPSK	50	24	22.82	22.93	23.11
20	QPSK	50	50	22.87	23.01	23.16
20	QPSK	100	0	22.81	22.95	23.12
20	16QAM	1	0	22.81	23.25	23.48
20	16QAM	1	50	22.82	23.30	23.55
20	16QAM	1	99	22.98	23.42	23.74
20	16QAM	50	0	21.80	21.88	22.00
20	16QAM	50	24	21.82	21.93	22.03
20	16QAM	50	50	21.90	21.99	22.11
20	16QAM	100	0	21.83	21.96	22.11
	Chanr	nel		20025	20175	20325
	Frequency	(MHz)		1717.5	1732.5	1747.5
15	QPSK	1	0	23.84	23.87	24.17
15	QPSK	1	38	23.69	23.92	24.17
15	QPSK	1	75	23.88	24.05	24.32
15	QPSK	36	0	23.89	22.95	23.24
15	QPSK	36	18	22.87	22.99	23.30
15	QPSK	36	75	22.91	23.08	23.36
15	QPSK	75	0	22.88	23.01	23.32
15	16QAM	1	0	22.91	23.08	22.93
15	16QAM	1	38	22.85	23.09	22.95
15	16QAM	1	75	23.02	23.17	23.12
15	16QAM	36	0	21.87	21.94	22.17
15	16QAM	36	18	21.88	21.99	22.23
15	16QAM	36	75	21.94	22.04	22.29
15	16QAM	75	0	21.84	21.98	22.17
	Chanr	nel		20000	20175	20350
	Frequency	(MHz)		1715	1732.5	1750
10	QPSK	1	0	23.81	23.84	24.20
10	QPSK	1	13	23.78	23.91	24.22
10	QPSK	1	24	23.78	23.96	24.27
10	QPSK	25	0	22.73	22.88	23.12
10	QPSK	25	6	22.76	22.90	23.14
10	QPSK	25	13	22.77	22.97	23.19
10	QPSK	50	0	22.74	22.93	23.14
10	16QAM	1	0	22.89	23.01	23.11
10	16QAM	1	13	22.86	23.10	23.18
10	16QAM	1	24	22.91	23.09	23.29
10	16QAM	25	0	21.77	21.94	22.17
10	16QAM	25	6	21.81	21.97	22.20
10	16QAM	25	13	21.83	21.99	22.25
10	16QAM	50	0	21.72	21.90	22.10



	Chanr	nel		19975	20175	20375
	Frequency		1712.5	1732.5	1752.5	
5	QPSK	1	0	23.85	23.97	24.25
5	QPSK	1	13	23.78	23.99	24.18
5	QPSK	1	24	23.78	23.98	24.10
5	QPSK	12	0	22.81	22.94	23.23
5	QPSK	12	6	22.79	22.95	23.22
5	QPSK	12	13	22.79	22.94	23.22
5	QPSK	25	0	22.75	22.94	23.22
5	16QAM	1	0	22.75	23.05	23.49
5	16QAM	1	13	22.80	23.07	23.49
5	16QAM	1		22.82	23.07	23.42
5	16QAM	12	24 0	21.85		23.50
5					21.99	
	16QAM	12	6	21.83	22.00	22.17
5 5	16QAM	12	13	21.86	21.98	22.20
5	16QAM	25	0	21.81	21.87	22.12
	Chanr			19965	20175	20385
	Frequency	· .	0	1711.5	1732.5	1753.5
3	QPSK	1	0	23.74	23.80	24.21
3	QPSK	1	8	23.71	23.87	24.17
3	QPSK	1	14	23.72	23.83	24.23
3	QPSK	6	0	22.83	22.95	23.26
3	QPSK	6	4	22.82	22.95	23.29
3	QPSK	6	8	22.82	22.98	23.26
3	QPSK	15	0	22.75	22.92	23.22
3	16QAM	1	0	22.82	23.01	23.19
3	16QAM	1	8	22.82	23.04	23.18
3	16QAM	1	14	22.79	23.01	23.23
3	16QAM	6	0	21.92	22.04	22.29
3	16QAM	6	4	21.90	22.08	22.30
3	16QAM	6	8	21.94	22.07	22.33
3	16QAM	15	0	21.75	21.95	22.20
	Chanr			19957	20175	20393
	Frequency	(MHz)		1710.7	1732.5	1754.3
1.4	QPSK	1	0	23.75	23.84	24.23
1.4	QPSK	1	3	23.73	23.82	24.24
1.4	QPSK	1	5	23.75	23.87	24.24
1.4	QPSK	3	0	23.74	23.88	24.23
1.4	QPSK	3	1	23.67	23.85	24.18
1.4	QPSK	3	3	23.71	23.89	24.22
1.4	QPSK	6	0	22.77	22.86	23.18
1.4	16QAM	1	0	22.60	23.02	23.25
1.4	16QAM	1	3	22.60	23.02	23.22
1.4	16QAM	1	5	22.60	23.07	23.25
1.4	16QAM	3	0	22.66	22.90	23.07
1.4	16QAM	3	1	22.59	22.81	23.03
1.4	16QAM	3	3	22.63	22.83	23.08
1.4	16QAM	6	0	21.80	21.88	22.19



			RB	Power	Power	Power
BW(MHz)	Modulation	RB Size	Offset	Low	Middle	High
				CH./Freq.	CH./Freq.	CH./Freq.
	Chanr		20850	21100	21350	
	Frequency(MHz)			2510	2535	2560
20	QPSK	1	0	22.76	22.92	23.28
20	QPSK	1	50	22.78	22.85	23.30
20	QPSK	1	99	23.02	22.99	23.28
20	QPSK	50	0	21.74	22.08	23.44
20	QPSK	50	24	21.87	22.12	22.14
20	QPSK	50	50	21.98	21.69	22.34
20	QPSK	100	0	21.79	21.83	22.39
20	16QAM	1	0	22.01	21.90	22.45
20	16QAM	1	50	22.00	21.98	22.19
20	16QAM	1	99	21.72	22.05	22.60
20	16QAM	50	0	21.10	20.83	21.21
20	16QAM	50	24	21.12	21.15	21.09
20	16QAM	50	50	21.04	21.02	21.26
20	16QAM	100	0	21.03	20.89	21.30
	Chanr			20825	21100	21350
	Frequency	<u>(MHz)</u>		2507.5	2535	2562.5
15	QPSK	1	0	22.84	22.92	23.12
15	QPSK	1	38	22.65	22.95	23.20
15	QPSK	1	75	22.79	22.82	23.35
15	QPSK	36	0	21.97	22.02	23.25
15	QPSK	36	18	21.98	21.83	22.24
15	QPSK	36	75	22.02	22.09	22.39
15	QPSK	75	0	21.85	21.94	22.24
15	16QAM	1	0	21.96	22.04	22.45
15	16QAM	1	38	21.77	22.09	22.57
15	16QAM	1	75	21.94	21.86	22.51
15	16QAM	36	0	20.89	21.23	21.21
15	16QAM	36	18	21.04	21.02	21.11
15	16QAM	36	75	20.88	21.13	21.34
15	16QAM	75	0	20.96	20.84	21.17
	Chanr			20800	21100	21400
	Frequency	<u>(MHz)</u>		2505	2535	2565
10	QPSK	1	0	22.48	22.51	22.91
10	QPSK	1	13	22.54	22.50	22.85
10	QPSK	1	24	22.50	22.47	22.96
10	QPSK	25	0	21.49	21.67	22.01
10	QPSK	25	6	21.54	21.52	21.80
10	QPSK	25	13	21.45	21.55	21.95
10	QPSK	50	0	21.50	21.45	21.96
10	16QAM	1	0	21.53	21.75	22.11
10	16QAM	1	13	21.59	21.68	21.98
10	16QAM	1	24	21.62	21.63	22.11
10	16QAM	25	0	20.67	20.60	20.86
10	16QAM	25	6	20.57	20.73	20.96
10	16QAM	25	13	20.61	20.71	20.95
10	16QAM	50	0	20.60	20.63	20.84



Page 33 of 172 Report No.: STS1601014H01

	Chanr	nel	20775	21100	21425	
	Frequency	/(MHz)	2502.5	2535	2567.5	
5	QPSK	1	0	22.77	22.83	23.16
5	QPSK	1	13	22.74	22.81	23.15
5	QPSK	1	24	22.76	22.80	23.21
5	QPSK	12	0	21.83	21.87	23.23
5	QPSK	12	6	21.84	21.86	22.18
5	QPSK	12	13	21.83	21.85	22.26
5	QPSK	25	0	21.76	21.82	22.18
5	16QAM	1	0	21.86	21.97	22.45
5	16QAM	1	13	21.85	21.96	22.35
5	16QAM	1	24	21.84	21.92	22.41
5	16QAM	12	0	20.92	20.98	21.20
5	16QAM	12	6	20.94	20.93	21.20
5	16QAM	12	13	20.90	20.94	21.26
5	16QAM	25	0	20.90	20.83	21.19

a	na 17						
	BW(MHz)	Modulation	RB Size	RB Offset	Power Low CH./Freq.	Power Middle CH./Freq.	Power High CH./Freq.
		Chanr	nel	23780	23790	23800	
		Frequency		709	710	711	
	10	QPSK	1	0	23.48	23.68	23.91
	10	QPSK	1	13	24.29	24.41	24.31
	10	QPSK	1	24	23.84	23.70	23.65
	10	QPSK	25	0	22.93	23.10	23.22
	10	QPSK	25	6	23.24	23.32	23.28
	10	QPSK	25	13	23.27	23.16	23.01
	10	QPSK	50	0	23.11	23.10	23.13
	10	16QAM	1	0	22.72	22.94	23.06
	10	16QAM	1	13	23.46	23.63	23.46
	10	16QAM	1	24	23.03	22.92	22.86
	10	16QAM	25	0	22.20	22.16	22.35
	10	16QAM	25	6	22.35	22.38	22.39
	10	16QAM	25	13	22.36	22.20	22.14
	10	16QAM	50	0	22.13	22.11	22.14
		Chanr	nel	23755	23790	23825	
		Frequency	(MHz)		706.5	710	713.5
	5	QPSK	1	0	23.49	24.17	24.26
	5	QPSK	1	13	23.87	24.50	23.82
	5	QPSK	1	24	24.26	24.11	23.62
	5	QPSK	12	0	22.74	23.32	23.13
	5	QPSK	12	6	22.95	23.43	22.94
	5	QPSK	12	13	23.07	23.36	22.76
	5	QPSK	25	0	22.90	23.29	22.90
	5	16QAM	1	0	22.75	23.25	23.67
	5	16QAM	1	13	23.04	23.60	23.27
	5	16QAM	1	24	23.40	23.27	23.05
	5	16QAM	12	0	21.96	22.42	22.15
	5	16QAM	12	6	22.06	22.50	21.95
	5	16QAM	12	13	22.19	22.48	21.80
	5	16QAM	25	0	22.06	22.29	21.92



Turn Power

Mode	GSM850(AVG)	GSM1900(AVG)
GSM/PCS	31.0±1dBm	28.3±1dBm
GPRS (1 Slot)	31.0±1dBm	28.2±1dBm
GPRS (2 Slot)	30.0±1dBm	27.4±1dBm
GPRS (3 Slot)	28.5±1dBm	26.0±1dBm
GPRS (4 Slot)	28.0±1dBm	25.5±1dBm
EDGE (1 Slot)	31.0±1dBm	28.2±1dBm
EDGE (2 Slot)	30.0±1dBm	27.4±1dBm
EDGE (3 Slot)	28.5±1dBm	26.0±1dBm
EDGE (4 Slot)	28.0±1dBm	25.5±1dBm

Mode	WCDMA Band V (AVG)	WCDMA Band IV (AVG)	WCDMA Band II (AVG)
AMR	21.0±1dBm	20.5±1dBm	20.0±1dBm
RMC	21.0±1dBm	20.5±1dBm	20.0±1dBm
HSDPA Subtest-1	20.5±1dBm	20.0±1dBm	19.5±1dBm
HSDPA Subtest-2	20.0±1dBm	19.5±1dBm	19.0±1dBm
HSDPA Subtest-3	19.5±1dBm	19.0±1dBm	19.0±1dBm
HSDPA Subtest-4	19.0±1dBm	18.5±1dBm	18.0±1dBm
HSUPA Subtest-1	20.0±1dBm	19.5±1dBm	19.0±1dBm
HSUPA Subtest-2	19.5±1dBm	19.0±1dBm	19.0±1dBm
HSUPA Subtest-3	19.0±1dBm	19.0±1dBm	18.0±1dBm
HSUPA Subtest-4	18.5±1dBm	18.0±1dBm	17.5±1dBm
HSUPA Subtest-5	18.0±1dBm	17.5±1dBm	17.0±1dBm

Mode	WIFI(PEAK)
IEEE 802.11b	16±1dBm
IEEE 802.11g	14±1dBm
IEEE 802.11n(HT 20)	14±1dBm
IEEE 802.11n(HT 40)	12.3±1dBm
Mode	BT(PEAK)
GFSK	6±1dBm
π/4-DQPSK	5±1dBm
8DPSK	5±1dBm
Mode	BT(PEAK)
GFSK	-2±1dBm



LTE

BW[MHz]	RB Size	Mode	Band II	Band IV	Band VII	Band XVII
1.4	1	QPSK	23±1dBm	24±1dBm	N/A	N/A
1.4	3		23±1dBm	24±1dBm	N/A	N/A
1.4	6		22±1dBm	23±1dBm	N/A	N/A
1.4	1		22±1dBm	23±1dBm	N/A	N/A
1.4	3	16-	22±1dBm	23±1dBm	N/A	N/A
1.4	6	QAM	21±1dBm	22±1dBm	N/A	N/A
3	1		23±1dBm	24±1dBm	N/A	N/A
3	6	QPSK	22±1dBm	23±1dBm	N/A	N/A
3	15		22±1dBm	23±1dBm	N/A	N/A
3	1	4.0	22±1dBm	23±1dBm	N/A	N/A
3	6	16-	21±1dBm	23±1dBm	N/A	N/A
3	15	QAM	21±1dBm	23±1dBm	N/A	N/A
5	1		23±1dBm	24±1dBm	23±1dBm	24±1dBm
5	12	QPSK	22±1dBm	23±1dBm	22±1dBm	23±1dBm
5	25		22±1dBm	23±1dBm	22±1dBm	23±1dBm
5	1		22±1dBm	23±1dBm	22±1dBm	23±1dBm
5	12	16-	21±1dBm	22±1dBm	21±1dBm	22±1dBm
5	25	QAM	21±1dBm	22±1dBm	21±1dBm	22±1dBm
10	1		23±1dBm	24±dBm	22±1dBm	23.5±1dBm
10	25	QPSK	22±1dBm	23±dBm	22±1dBm	22.5±1dBm
10	50		22±1dBm	23±dBm	21±1dBm	22.5±1dBm
10	1	40	22±1dBm	23±1dBm	22±1dBm	23±1dBm
10	25	16-	21±1dBm	22±1dBm	20±1dBm	22±1dBm
10	50	QAM	21±1dBm	22±1dBm	20±1dBm	22±1dBm
15	1		23±1dBm	24±1dBm	23±1dBm	N/A
15	36	QPSK	22±1dBm	23±1dBm	22.5±1dBm	N/A
15	75		22±1dBm	23±1dBm	22±1dBm	N/A
15	1	4.0	22±1dBm	23±1dBm	22±1dBm	N/A
15	36	16-	21±1dBm	22±1dBm	21±1dBm	N/A
15	75	QAM	21±1dBm	22±1dBm	21±1dBm	N/A
20	1		23±1dBm	23.3±1dBm	22.5±1dBm	N/A
20	50	QPSK	22±1dBm	22.2±1dBm	21.5±1dBm	N/A
20	100		22±1dBm	22.2±1dBm	21.5±1dBm	N/A
20	1	40	22±1dBm	23±1dBm	22±1dBm	N/A
20	50	16-	21±1dBm	22±1dBm	21±1dBm	N/A
20	100	QAM	21±1dBm	22±1dBm	21±1dBm	N/A





11. EUT And Test Setup Photo

11.1 EUT Photo





Back side







Top side



Bottom side







Left side



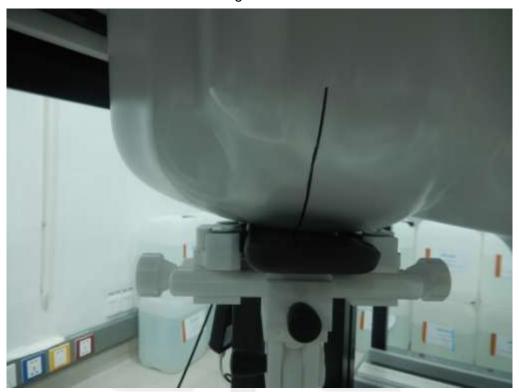
Right side



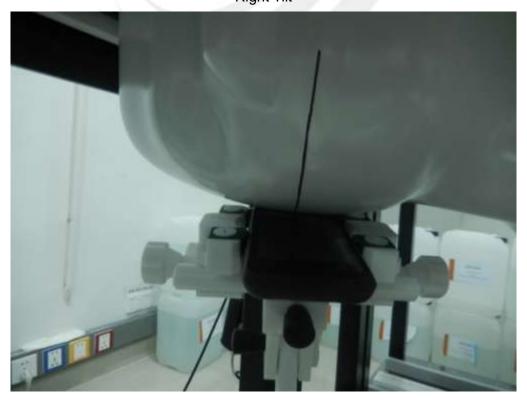


11.2 Setup Photo



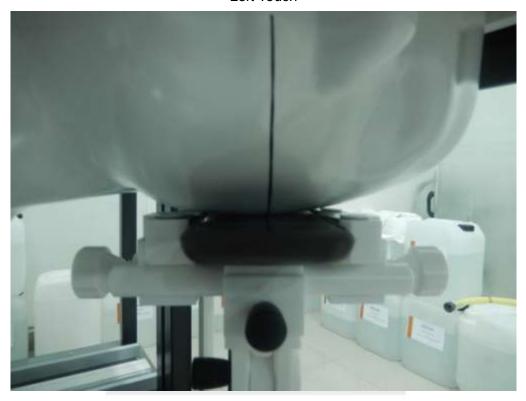


Right Tilt

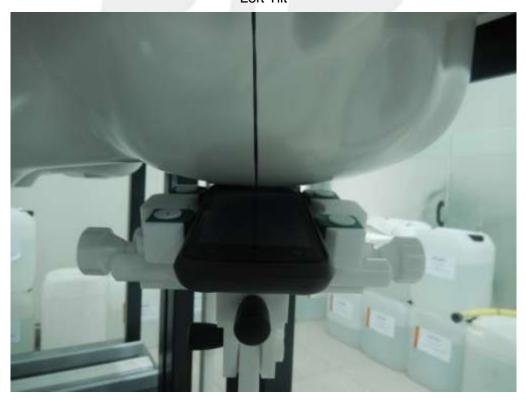




Left Touch

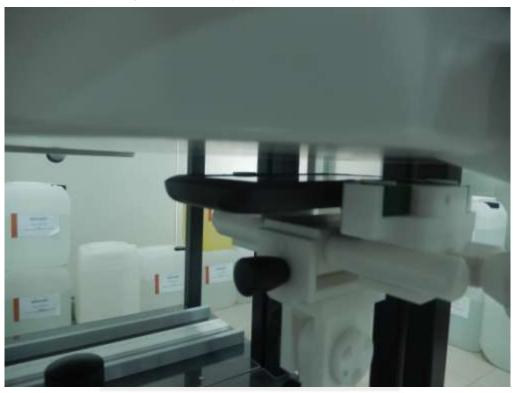


Left Tilt

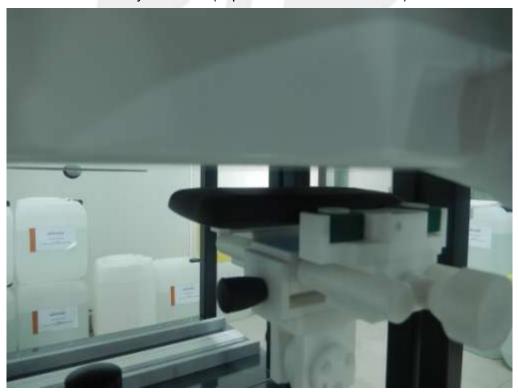




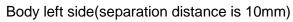


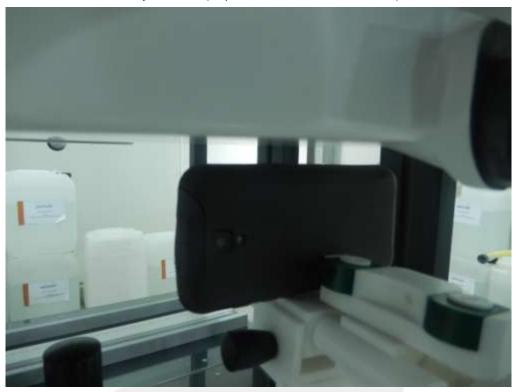


Body Back side(separation distance is 10mm)







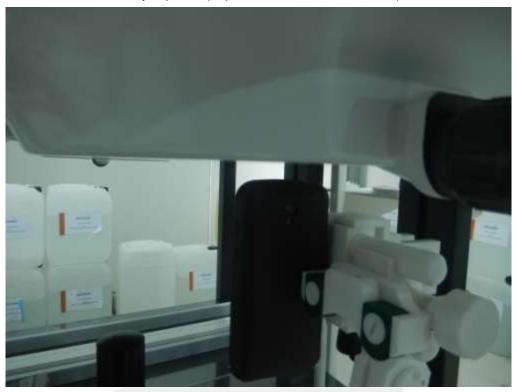


Body right side(separation distance is 10mm)

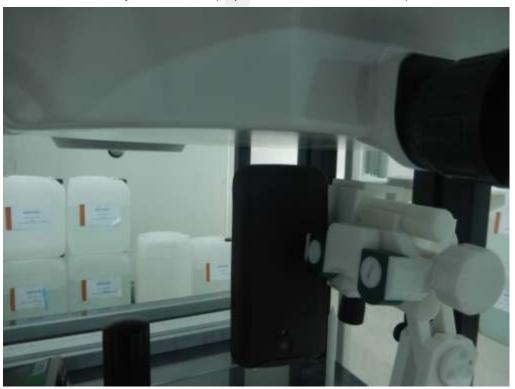




Body top side(separation distance is 10mm)



Body Bottom side(separation distance is 10mm)













12. SAR Result Summary

12.1 Head SAR

Band	Mode	Test Position	Channel	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
		Right Cheek	CH 190	0.223	-2.43	32	31.57	0.246	1
GSM 850	Voice	Right Tilt	CH 190	0.153	-4.87	32	31.57	0.169	2
G2101 650	voice	Left Cheek	CH 190	0.294	-2.23	32	31.57	0.325	3
		Left Tilt	CH 190	0.111	-2.12	32	31.57	0.123	4
	Right Cheek	CH 810	0.295	-1.21	29.3	29.20	0.302	10	
CCM4000	Vaine	Right Tilt	CH 810	0.179	-4.63	29.3	29.20	0.183	11
GSM1900	Voice	Left Cheek	CH 810	0.461	-2.62	29.3	29.20	0.472	12
		Left Tilt	CH 810	0.113	-2.46	29.3	29.20	0.116	13
		Right Cheek	CH 9400	0.448	-1.45	21	20.79	0.470	19
MACDMA II	DMC	Right Tilt	CH 9400	0.067	-1.29	21	20.79	0.070	20
WCDMA II	RMC	Left Cheek	CH 9400	0.644	-3.18	21	20.79	0.676	21
		Left Tilt	CH 9400	0.077	-3.75	21	20.79	0.081	22
		Right Cheek	CH 1513	0.533	2.54	21.5	21.33	0.554	28
WCDMA IV	RMC	Right Tilt	CH 1513	0.381	4.48	21.5	21.33	0.396	29
WCDIVIA IV	KIVIC	Left Cheek	CH 1513	0.751	-2.80	21.5	21.33	0.781	30
		Left Tilt	CH 1513	0.286	-2.12	21.5	21.33	0.297	31
		Right Cheek	CH4132	0.170	-3.95	22	21.72	0.181	37
WCDMA V	RMC	Right Tilt	CH4132	0.074	-2.26	22	21.72	0.079	38
VV CDIVIA V	KIVIC	Left Cheek	CH4132	0.250	-2.45	22	21.72	0.267	39
		Left Tilt	CH4132	0.129	-2.76	22	21.72	0.138	40

Band	Mode	Test Position	Channel	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Duty cycle(%)	Scaled SAR (W/Kg)	Meas. No.
		Right Cheek	CH 6	0.325	-0.53	17	16.27	100	0.384	46
WIF	802.11b	Right Tilt	CH 6	0.333	-1.01	17	16.27	100	0.394	47
VVIF	002.110	Left Cheek	CH 6	0.405	0.03	17	16.27	100	0.479	48
		Left Tilt	CH 6	0.216	-0.95	17	16.27	100	0.256	49



Page 46 of 172 Report No.: STS1601014H01

Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas No.
			1	0	Right Cheek	19100	0.513	-0.45	24	23.62	0.560	54
			50	0	Right Cheek	18700	0.496	-2.03	23	22.56	0.549	/
			1	0	Right Tilt	19100	0.123	-0.04	24	23.62	0.134	55
LTE	20M	QPSK	50	0	Right Tilt	18700	0.120	0.14	23	22.56	0.133	/
Band 2	20111	Q. O.	1	0	Left Cheek	19100	0.276	-0.63	24	23.62	0.301	56
			50	0	Left Cheek	18700	0.254	0.46	23	22.56	0.281	/
			1	0	Left Tilt	19100	0.105	-0.42	24	23.62	0.115	57
			50	0	Left Tilt	18700	0.096	3.92	23	22.56	0.106	/
			1	0	Right Cheek	20050	0.574	-1.30	24.3	24.28	0.577	63
			50	0	Right Cheek	20050	0.552	-1.62	23.2	23.16	0.557	/
			1	0	Right Tilt	20050	0.263	-0.47	24.3	24.28	0.264	64
LTE			50	0	Right Tilt	20050	0.261	-2.93	23.2	23.16	0.263	/
Band 4	20M	QPSK	1	0	Left Cheek	20050	0.549	0.95	24.3	24.28	0.552	65
			50	0	Left Cheek	20050	0.536	0.39	23.2	23.16	0.541	/
			1	0	Left Tilt	20050	0.234	-0.55	24.3	24.28	0.115 57 0.106 / 0.577 63 0.557 / 0.264 64 0.263 / 0.552 65 0.541 / 0.223 / 0.329 75 0.309 / 0.111 76 0.348 77 0.336 /	66
			50	0	Left Tilt	20050	0.221	0.99	23.2	23.16	0.223	/
			1	50	Right Cheek	21100	0.314	1.29	23.5	23.30	0.329	75
			50	50	Right Cheek	20850	0.298	-0.34	22.5	22.34	0.309	/
			1	50	Right Tilt	21100	0.106	-0.89	23.5	23.30	0.111	76
LTE	20M	QPSK	50	50	Right Tilt	20850	0.103	1.7	22.5	22.34	0.107	/
Band 7		α. σ. τ	1	50	Left Cheek	21100	0.332	1.06	23.5	23.30	0.348	77
			50	50	Left Cheek	20850	0.324	-095	22.5	22.34	0.336	/
			1	50	Left Tilt	21100	0.139	-4.03	23.5	23.30	0.146	78
			50	50	Left Tilt	20850	0.136	-0.89	22.5	22.34	0.141	/
			1	24	Right Cheek	23800	0.450	-3.44	24.5	24.41	0.459	84
			25	6	Right Cheek	23780	0.402	0.32	23.5	23.32	0.419	/
			1	24	Right Tilt	23800	0.275	-1.38	24.5	24.41	0.281	85
LTE	4614	00014	25	6	Right Tilt	23780	0.253	-2.32	23.5	23.32	0.264	/
Band 17	10M	QPSK	1	24	Left Cheek	23800	0.554	1.97	24.5	24.41	0.566	86
			25	6	Left Cheek	23780	0.526	1.52	23.5	23.32	0.548	/
			1	24	Left Tilt	23800	0.406	-0.73	24.5	24.41	0.415	87
			25	6	Left Tilt	23780	0.381	-1.69	23.5	23.32	0.397	/





12.2 Body SAR And Hotspot

Band	Mode	Test Position	Channel	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
		Front side	CH 251	0.426	-1.18	29	28.78	0.448	5
	EGPRS	Back side	CH 251	0.496	0.30	29	28.78	0.522	6
GSM 850	Data-4 Slot	Left side	CH 251	0.197	-0.88	29	28.78	New York New York	7
	(hotspot)	Right side	CH 251	0.232	0.35	29	28.78	0.244	8
		Bottom side	CH 251	0.067	-2.63	29	28.78	0.070	9
EGPRS		Front side	CH 810	0.447	-1.50	26.5	26.25	0.473	14
	FGPRS	Back side	CH 512	0.595	0.19	26.5	26.25	0.630	15
GSM1900	Data-4 Slot	Left side	CH 512	0.200	0.99	26.5	26.25	0.212	16
	(hotspot)	Right side	CH 512	0.126	-1.84	26.5	26.25	0.133	17
		Bottom side	CH 512	0.282	-1.66	26.5	26.25	0.299	18
		Front side	CH9400	0.657	0.03	21	20.79	0.690	23
	RMC	Back side	CH9400	0.565	-1.50	21	20.79	0.212 16 0.133 17 0.299 18 0.690 23 0.593 24 0.216 25 0.263 26 0.383 27 0.179 32	
WCDMA II	(body-worn	Left side	CH9400	0.206	-0.13	21	20.79	0.216	25
	and hotspot)	Right side	CH9400	0.251	-0.49	21	20.79	0.263	26
		Bottom side	CH9400	0.365	-0.27	21	20.79	0.383	27
		Front side	CH1513	0.172	1.98	21.5	21.33	0.179	32
	RMC	Back side	CH1513	0.629	0.05	21.5	21.33	0.654	33
WCDMA IV	(body-worn	Left side	CH1513	0.063	0.82	21.5	21.33	0.066	34
īv	and hotspot)	Right side	CH1513	0.061	-0.69	21.5	21.33	0.063	35
		Bottom side	CH1513	0.183	-0.24	21.5	21.33	0.190	36
		Front side	CH4132	0.183	-1.33	22	21.72	0.195	41
	RMC	Back side	CH4132	0.260	-1.87	22	21.72	0.277	42
WCDMA V	(body-worn and	Left side	CH4132	0.127	-0.36	22	21.72	0.135	43
v	hotspot)	Right side	CH4132	0.080	-1.56	22	21.72	0.085	44
		Bottom side	CH4132	0.027	-2.79	22	21.72	0.029	45

Band	Mode	Test Position	Channel	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Duty cycle(%)	Scaled SAR (W/Kg)	Meas. No.
		Front side	CH 6	0.193	0.30	17	16.27	100	0.228	50
\\/\\\	000 11h	Back side	CH 6	0.284	-0.43	17	16.27	100	0.336	51
VVIFI	WIFI 802.11b	Right side	CH 6	0.085	-3.59	17	16.27	100	0.101	52
		Bottom side	CH 6	0.123	-1.08	17	16.27	100	0.146	53

Note:

- 1. The Body test separation of all above table is 10mm.
- 2. Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was 0.319 W/Kg for Head and 0.224 W/Kg for Body/Hotspot)



Band	BW	Modulation	RB	RB	Test Position	Ch.	Result	Power	Max. Turn-up	Meas. Output	Scaled SAR	ivieas.
	(MHz)		Size	offset			1g (vv/Kg)	Driπ(%)	Power(dBm)	Power(dBm)	(W/Kg)	No.
			1	0	Front	18700	0.505	2.35	24	23.62	0.551	58
			50	0	Front	18700	0.476	-2.28	23	22.56	0.527	/
			1	0	Back	18700	0.520	-3.45	24	23.62	0.568	59
LTE			50	0	Back	18700	0.501	-3.17	23	22.56	0.554	/
Band	20M	QPSK	1	0	Left Side	19100	0.379	0.13	24	23.62	0.414	60
2	20111	QI OIL	50	0	Left Side	18700	0.351	-1.03	23	22.56	0.388	/
			1	0	Right Side	19100	0.294	-0.67	24	23.62	0.321	61
			50	0	Right Side	18700	0.273	-4.37	23	22.56	0.302	/
			1	0	Bottom Side	18700	0.259	-0.59	24	23.62	0.283	62
			50	0	Bottom Side	18700	0.212	-2.36	23	22.56	0.235	/
			1	0	Front	20050	0.702	-2.62	24.3	23.94	0.763	67
			50	0	Front	20050	0.684	-2.28	23.2	22.87	0.738	/
			100	0	Front	20050	0.572	-0.38	23.2	22.81	0.626	/
			1	0	Front	20175	0.716	-1.91	24.3	24.11	0.748	68
			50	0	Front	20175	0.682	-2.05	23.2	23.01	0.712	/
			100	0	Front	20175	0.419	-2.47	23.2	22.95	0.444	/
			1	0	Front	20300	0.812	-0.88	24.3	24.28	0.816	69
LTE			50	0	Front	20300	0.720	-3.01	23.2	23.16	0.727	/
Band	20M	QPSK	100	0	Front	20300	0.581	-2.64	23.2	23.12	0.592	/
4			1	0	Back	20050	0.700	-0.70	24.3	24.28	0.703	71
			50	0	Back	20050	0.681	-3.17	23.2	23.16	0.687	/
			1	0	Left Side	20050	0.439	0.44	24.3	24.28	0.441	72
			50	0	Left Side	20050	0.420	-1.06	23.2	23.16	0.424	/
			1	0	Right Side	20050	0.173	-0.63	24.3	24.28	0.174	73
			50	0	Right Side	20050	0.165	-4.37	23.2	23.16	0.167	/
			1	0	Bottom Side	20050	0.791	-0.55	24.3	24.28	0.795	74
			50	0	Bottom Side	20050	0.785	-2.36	23.2	23.16	0.792	/
			1	50	Front	21100	0.586	-1.54	23.5	23.30	0.614	79
			50	50	Front	20850	0.566	0.15	22.5	22.34	0.587	/
			1	50	Back	21100	0.614	-2.17	23.5	23.30	0.643	80
LTE			50	50	Back	20850	0.600	1.32	22.5	22.34	0.623	/
Band	20M	QPSK	1	50	Left Side	21100	0.163	0.43	23.5	23.30	0.171	81
7			50	50	Left Side	20850	0.152	-0.23	22.5	22.34	0.158	/
			1	50	Right Side	21100		1.06	23.5	23.30	0.174	82
			50	50	Right Side	20850		-0.94	22.5	22.34	0.165	/
			1	50	Bottom Side	21100		-0.19	23.5	23.30	0.764	83
			50	50	Bottom Side	20850		2.89	22.5	22.34	0.742	/
			1	24	Front	23800		4.72	24.5	24.41	0.535	88
			25	6	Front	23780		0.44	23.5	23.32	0.506	/
			1	24	Back	23800		1.25	24.5	24.41	0.632	89
LTE			25	6	Back	23780		1.01	23.5	23.32	0.526	/
Band	10M	QPSK	1	24	Left Side	23800		-0.37	24.5	24.41	0.158	90
17			25	6	Left Side	23780		-0.04	23.5	23.32	0.158	/
			1	24	Right Side	23800		-2.99	24.5	24.41	0.065	91
			25	6	Right Side	23780		0.46	23.5	23.32	0.065	/
			1	24	Bottom Side	23800		-2.76	24.5	24.41	0.077	92
			25	6	Bottom Side	23780	0.070	1.11	23.5	23.32	0.073	/





Repeated SAR

Band	Mode	Test Position	Channel	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
LTE Band 4	20M, QPSK RB 1,0 offset	Front side	CH 20300	0.780	0.85	24.3	24.28	0.784	/

12.3 repeated SAR measurement

Band	Mode	Test Position	Channel	Original Measured SAR 1g(mW/g)	1 st Repeated SAR 1g	Ratio	Original Measured SAR 1g(mW/g)	2nd Repeated SAR 1g	Ratio
LTE Band 4	20M, QPSK RB 1,0 offset	Front side	CH 20050	0.812	0.780	1.04	/	/	/

Note:

- 1. Per KDB 865664 D01,for each frequency band ,repeated SAR measurement is required only when the measured SAR is ≥0.8W/Kg.
- 2. Per KDB 865664 D01,if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤1.2and the measured SAR <1.45W/Kg, only one repeated measurement is required.
- 3. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is ≥ 1.20 or when the original or repeated measurement is ≥ 1.45W/Kg
- 4. The ratio is the difference in percentage between original and repeated measured SAR.



Report No.: STS1601014H01

Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

Position	Simultaneous state					
	1. GSM + WIFI					
	2. GSM + Bluetooth					
I I d	3. WCDMA + WIFI					
Head	4. WCDMA + Bluetooth					
	5. LTE + WIFI					
	6. LTE + Bluetooth					
	1. GSM + WIFI					
	2. GSM + Bluetooth					
Dodu	3. WCDMA + WIFI					
Body	4. WCDMA + Bluetooth					
	5. LTE + WIFI					
	6. LTE + Bluetooth					

NOTE:

- 1. Bluetooth and WIFI can't simultaneous transmission at the same time.
- 2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
- 3. Based upon KDB 447498 D01, BT SAR is excluded as below table.
- 4. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
- 5. For minimum test separation distance \leq 50mm,Bluetooth standalone SAR is excluded according to [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm) $\cdot [\sqrt{f} (GHz)/x] \leq 3.0$ for 1-q SAR and \leq 7.5 for 10-q extremity SAR
- 6. The reported SAR summation is calculated based on the same configuration and test position.
- 7. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
- a) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[\sqrt{f} (GHz) /x] W/kg for test separation distances 50 mm; Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
- b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

Estimated SAR		Maximum Average Power		Antenna	Frequency(GHz)	Stand alone
		dBm	mW	to user(mm)	, ,	SAR(1g) [W/kg]
DT	Head	7	F 01	5	2480	0.214
ВТ	Body	/	5.01	10	2480	0.107

Page 51 of 172 Report No.: STS1601014H01

Simultaneous Mode	Position	Mode	Max. 1-g SAR (W/kg)	1-g Sum SAR (W/kg)		
		GSM Voice	0.472			
	Head	WIFI	0.479	1-g Sum SAR (W/kg) 0.951 0.966 0.686 0.737 1.260 1.026 0.995 0.797 1.056 1.152 0.791		
GSM + WIFI		GSM Data	0.630			
	Body	WIFI	0.336	0.966		
		GSM Voice	0.472			
COM - Di - i - il	Head	Bluetooth	0.214	0.686		
GSM + Bluetooth	D. 1	GSM Data	0.630	0.707		
MODAMA AMIE	Body	Bluetooth	0.107	0.737		
	l la a d	WCDMA RMC 0.781		4.000		
	Head	WIFI	0.479	1.260		
WCDMA + WIFI	Dark	WCDMA RMC	0.690			
	Body	WIFI	0.336	1.026		
	Unad	WCDMA RMC	0.781	0.005		
VACODAAA . Dissata atla	Head	Bluetooth	0.214	0.995		
WCDMA + Bluetooth	Dodu	WCDMA RMC	0.690	0.707		
	Body	Bluetooth	0.107	0.797		
	Head	LTE RMC	0.577	1.056		
LTE + WIFI	пеац	WIFI	0.479	1.056		
LIE + VVIFI	Dody	LTE RMC	0.816	4.450		
LTC + Divisto eth	Body	WIFI	0.336	1.152		
	Поод	LTE RMC	0.577	0.704		
	Head	Bluetooth	0.214	0.791		
LTE + Bluetooth	Rody	LTE RMC	0.816	0.023		
	Body Bluetooth		0.107	0.323		

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.

When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.





13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	SATIMO	SID750	SN 30/14 DIP0G750-331	2014.09.01	2017.08.31
835MHz Dipole	SATIMO	SID835	SN 30/14 DIP0G835-332	2014.09.01	2017.08.31
1800MHz Dipole	SATIMO	SID1800	SN 30/14 DIP1G800-329	2014.09.01	2017.08.31
1900MHz Dipole	SATIMO	SID1900	SN 30/14 DIP1G900-333	2014.09.01	2017.08.31
2450MHz Dipole	SATIMO	SID2450	SN 30/14 DIP2G450-335	2014.09.01	2017.08.31
2600MHz Dipole	SATIMO	SID2600	SN 30/14 DIP2G600-336	2014.09.01	2017.08.31
E-Field Probe	SATIMO	SSE5	SN 17/14 EP221	2015.09.01	2016.08.31
Antenna	SATIMO	ANTA3	SN 07/13 ZNTA52	2014.09.01	2017.08.31
Waveguide	SATIMO	SWG5500	SN 13/14 WGA32	2014.09.01	2017.08.31
Phantom1	SATIMO	SAM	SN 32/14 SAM115	N/A	N/A
Phantom2	SATIMO	SAM	SN 32/14 SAM116	N/A	N/A
SAR TEST BENCH	SATIMO	GSM and WCDMA mobile phone POSITIONNIN G SYSTEM	SN 32/14 MSH97	N/A	N/A
SAR TEST BENCH	SATIMO	LAPTOP POSITIONNIN G SYSTEM	SN 32/14 LSH29	N/A	N/A
Dielectric Probe Kit	SATIMO	SCLMP	SN 32/14 OCPG52	2015.09.01	2016.08.31
Multi Meter	Keithley	Multi Meter 2000	4050073	2015.11.20	2016.11.19
Signal Generator	Agilent	N5182A	MY50140530	2015.11.18	2016.11.17
Power Meter	R&S	NRP	100510	2015.10.25	2016.10.24
Power Sensor	R&S	NRP-Z11	101919	2015.10.24	2016.10.23
Power Sensor	Anritsu	MA2411B	1027253	2015.10.10	2016.10.09
Power Sensor	R&S	NRP-Z21	103971	2015.12.12	2016.12.11
Network Analyzer	Agilent	5071C	EMY46103472	2015.12.12	2016.12.11
Attenuator 1	PE	PE7005-10	N/A	2015.10.25	2016.10.24
Attenuator 2	PE	PE7005-3	N/A	2015.10.24	2016.10.23
Attenuator 3	Woken	WK0602-XX	N/A	2015.12.12	2016.12.11
Dual Directional Coupler	Agilent	778D	50783	2015.11.18	2016.11.17



Appendix A. System Validation Plots

System Performance Check Data (750MHz Head)

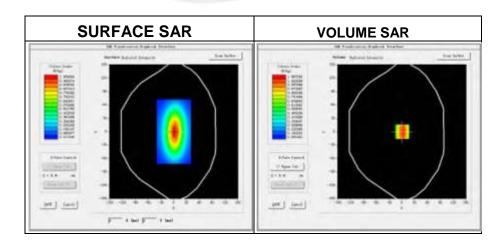
Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2016-01-15

Measurement duration: 13 minutes 25 seconds

Phantom	Validation plane
Device Position	-
Band	750MHz
Channels	-
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity (real part)	41.2
Relative permittivity	20.8
Conductivity (S/m)	0.91
Power drift (%)	2.35
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
ConvF:	4.53
Crest factor:	1:1



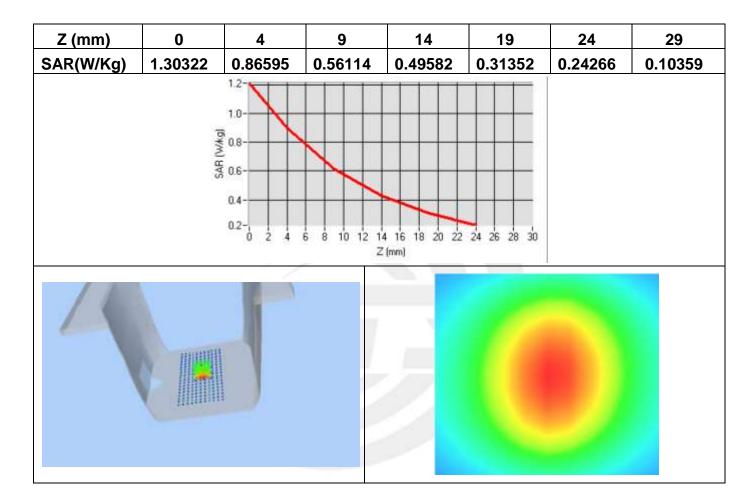


Page 54 of 172 Report No.: STS1601014H01

Maximum location: X=1.00, Y=0.00

SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.544560
SAR 1g (W/Kg)	0.838123





System Performance Check Data (835MHz Body)

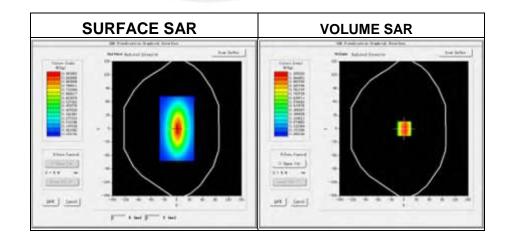
Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2016-01-15

Measurement duration: 14 minutes 12 seconds

Probe	
Phantom	Validation plane
Device Position	-
Band	750MHz
Channels	-
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity (real part)	55.26
Relative permittivity	23.251187
Conductivity (S/m)	0.91
Power drift (%)	1.020000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
ConvF:	4.70
Crest factor:	1:1



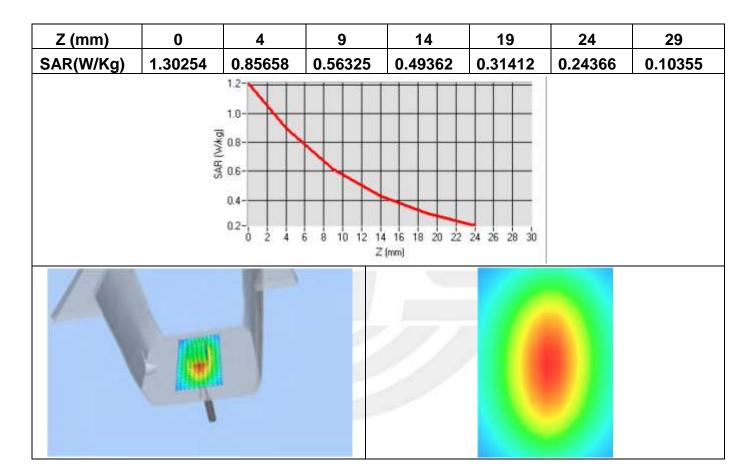


Page 56 of 172 Report No.: STS1601014H01

Maximum location: X=1.00, Y=0.00

SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.576142
SAR 1g (W/Kg)	0.856325





System Performance Check Data (835MHz Head)

Type: Phone measurement (Complete)

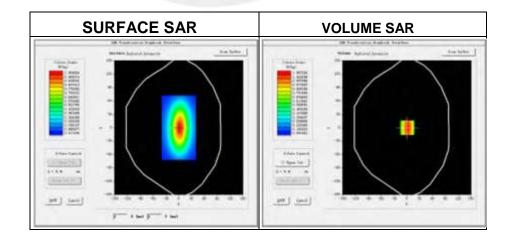
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2016-01-15

Measurement duration: 13 minutes 27 seconds

Phantom	Validation plane
Device Position	-
Band	835MHz
Channels	-
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity (real part)	41.00
Relative permittivity	18.72
Conductivity (S/m)	0.86
Power drift (%)	0.45
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
ConvF:	4.83
Crest factor:	1:1





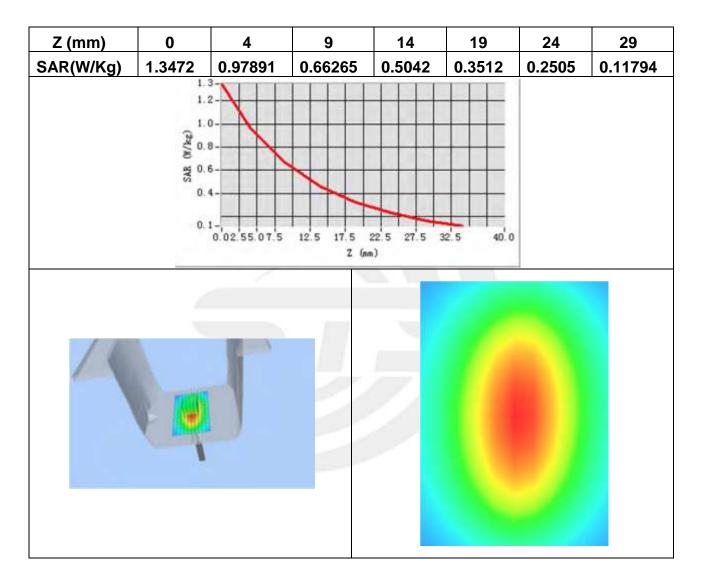




Maximum location: X=1.00, Y=0.00

SAR Peak: 1.39 W/kg

SAR 10g (W/Kg)	0.625623
SAR 1g (W/Kg)	0.937481





System Performance Check Data (835MHz Body)

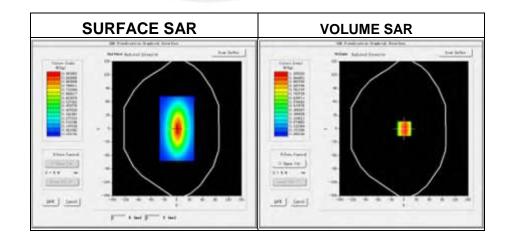
Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2016-01-15

Measurement duration: 14 minutes 13 seconds

Probe	
Phantom	Validation plane
Device Position	-
Band	835MHz
Channels	
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity (real part)	54.70
Relative permittivity	21.408187
Conductivity (S/m)	0.98
Power drift (%)	0.090000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
ConvF:	5.02
Crest factor:	1:1





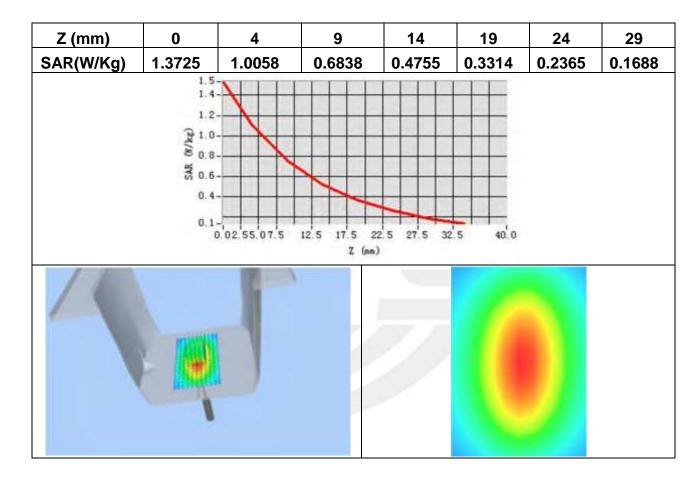




Maximum location: X=1.00, Y=0.00

SAR Peak: 1.50 W/kg

SAR 10g (W/Kg)	0.603221
SAR 1g (W/Kg)	0.946658





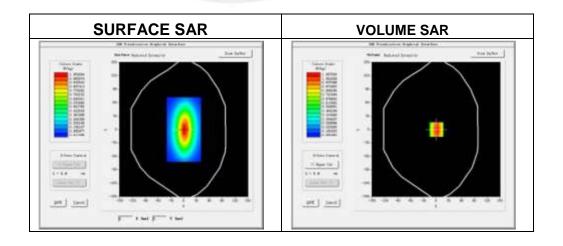
System Performance Check Data(1800MHz Head)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2016-01-15

Phantom	Validation plane
Device Position	-
Band	1800MHz
Channels	<u>-</u>
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity (real part)	40.20
Relative permittivity	14.096855
Conductivity (S/m)	1.308491
Power drift (%)	-1.390000
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.25
Crest factor:	1:1



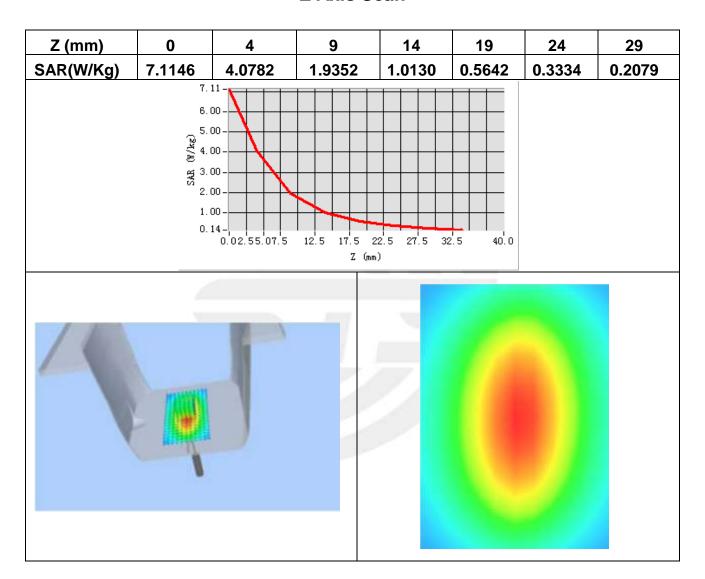


Report No.: STS1601014H01



Maximum location: X=7.00, Y=-1.00

SAR 10g (W/Kg)	1.980247
SAR 1g (W/Kg)	3.760154





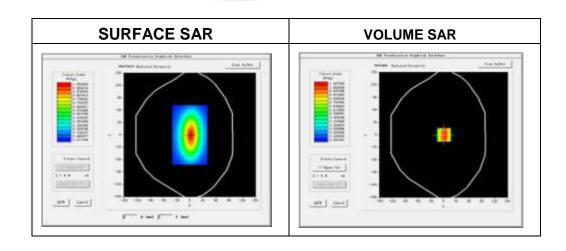
System Performance Check Data(1800MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2016-01-15

Phantom	Validation plane
Device Position	-
Band	1800MHz
Channels	-
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity (real part)	52.6
Relative permittivity	15.08356
Conductivity (S/m)	1.376582
Power drift (%)	2.351
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.34
Crest factor:	1:1



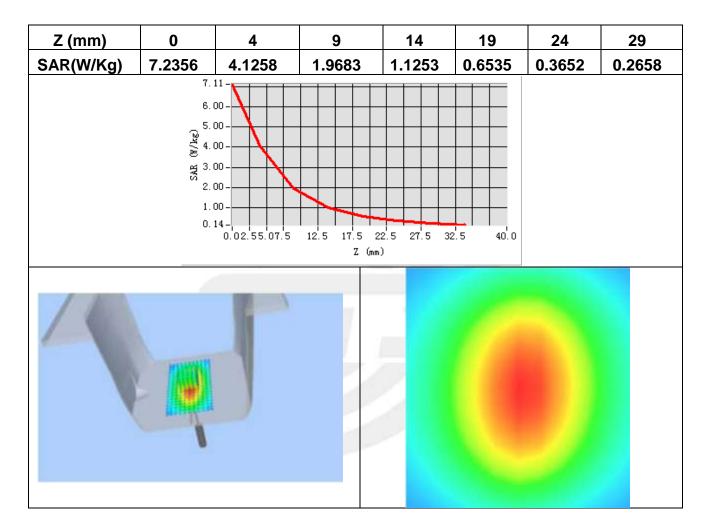






Maximum location: X=6.00, Y=2.00

SAR 10g (W/Kg)	1.99658
SAR 1g (W/Kg)	3.88325





System Performance Check Data (1900MHz Head)

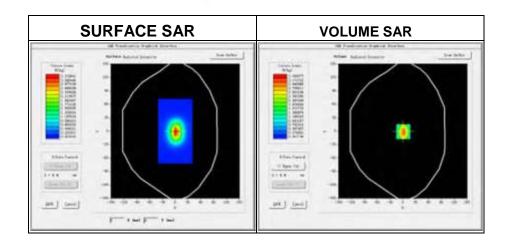
Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

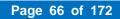
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2016-01-15

Measurement duration: 14 minutes 12 seconds

Phantom	Validation plane
Device Position	-
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity (real part)	39.50
Relative permittivity	13.26
Conductivity (S/m)	1.43
Power drift (%)	0.47
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
Probe	SN 17/14 EP221
ConvF:	4.71
Crest factor:	1:1





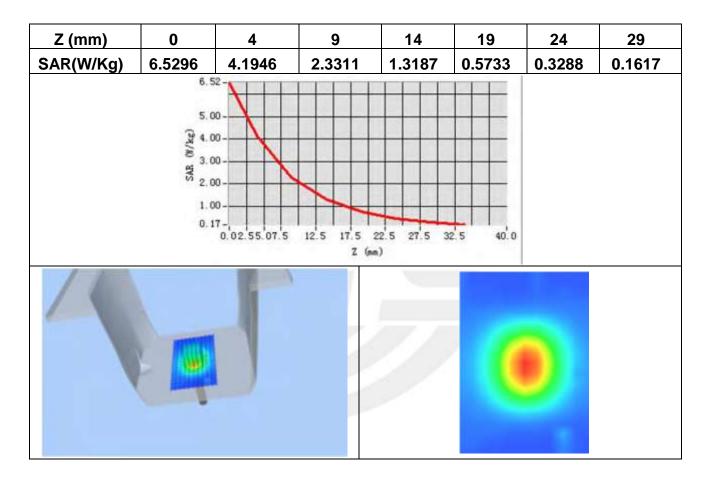
Report No.: STS1601014H01



Maximum location: X=1.00, Y=0.00

SAR Peak: 5.41 W/kg

SAR 10g (W/Kg)	1.967525
SAR 1g (W/Kg)	3.856235





System Performance Check Data (1900MHz Body)

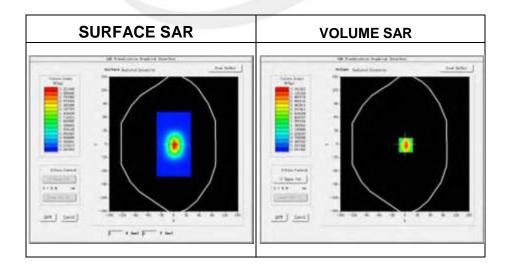
Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2016-01-15

Measurement duration: 14 minutes 46 seconds

Device Position	-
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900
Relative permittivity (real part)	52.31
Relative permittivity	12.87531
Conductivity (S/m)	1.5
Power drift (%)	0.37
Ambient Temperature:	22.7°C
Liquid Temperature:	22.3°C
Probe	SN 17/14 EP221
ConvF:	4.85
Crest factor:	1:1



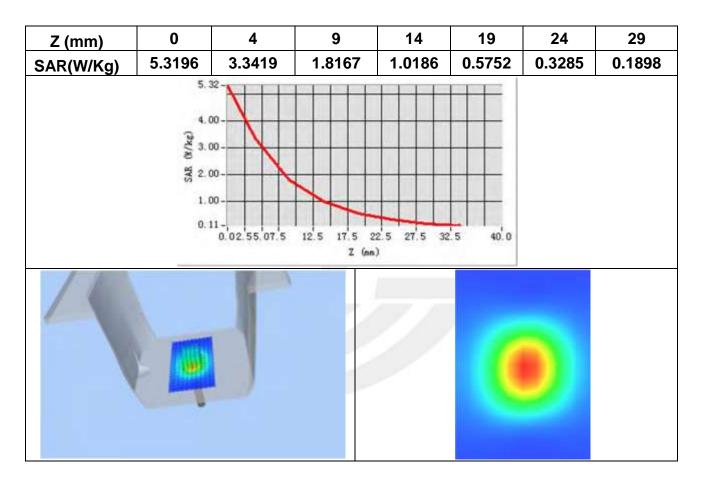


Page 68 of 172 Report No.: STS1601014H01

Maximum location: X=2.00, Y=2.00

SAR Peak: 5.27 W/kg

SAR 10g (W/Kg)	2.265354
SAR 1g (W/Kg)	3.986583





System Performance Check Data (2450MHz Head)

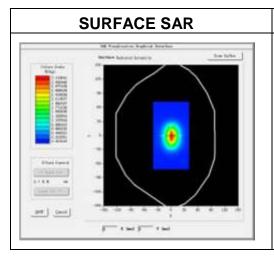
Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

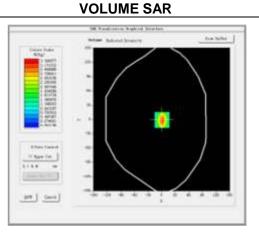
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2016-01-15

Measurement duration: 13 minutes 51 seconds

Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity (real part)	39.176002
Relative permittivity	12.930000
Conductivity (S/m)	1.88
Power drift (%)	-1.200000
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.11
Crest factor:	1:1





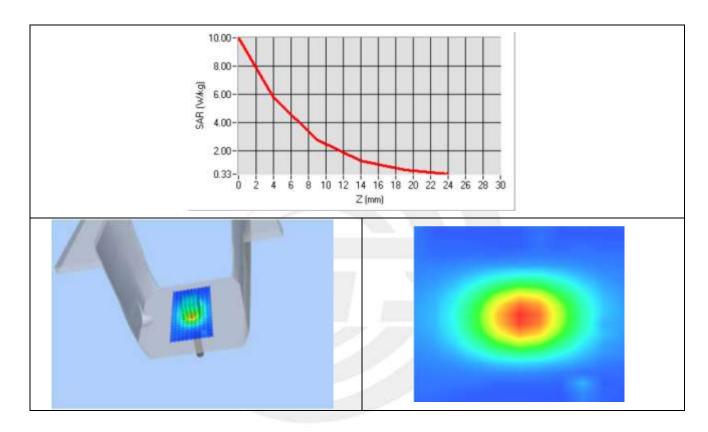




Report No.: STS1601014H01

Maximum location: X=7.00, Y=6.00

SAR 10g (W/Kg)	2.659359
SAR 1g (W/Kg)	5.593465





System Performance Check Data (2450MHz Body)

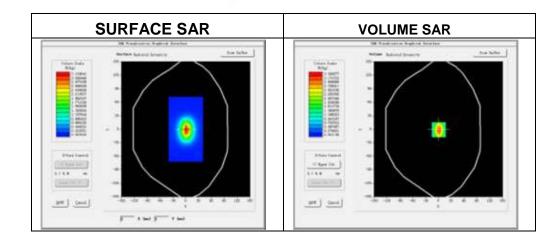
Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2016-01-15

Measurement duration: 14 minutes 23 seconds

Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity (real part)	52.316002
Relative permittivity	12.930000
Conductivity (S/m)	2.12
Power drift (%)	-1.200000
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.25
Crest factor:	1:1



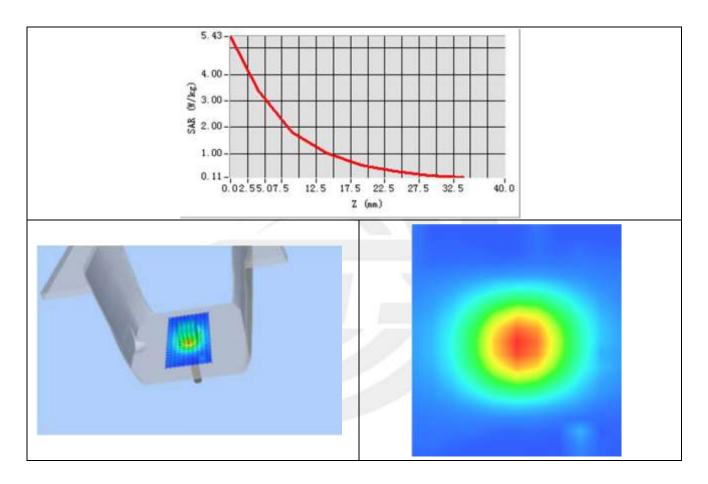


Report No.: STS1601014H01



Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.156894
SAR 1g (W/Kg)	4.864392





System Performance Check Data(2600MHz Head)

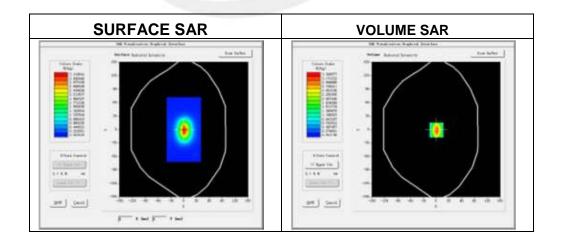
Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2016-01-15

Experimental conditions.

Device Position	Validation plane
Band	2600 MHz
Channels	-
Signal	CW
Frequency (MHz)	2600
Relative permittivity (real part)	38.52544
Relative permittivity	12.862300
Conductivity (S/m)	1.92000
Power drift (%)	-0.2600000
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.20
Crest factor:	1:1





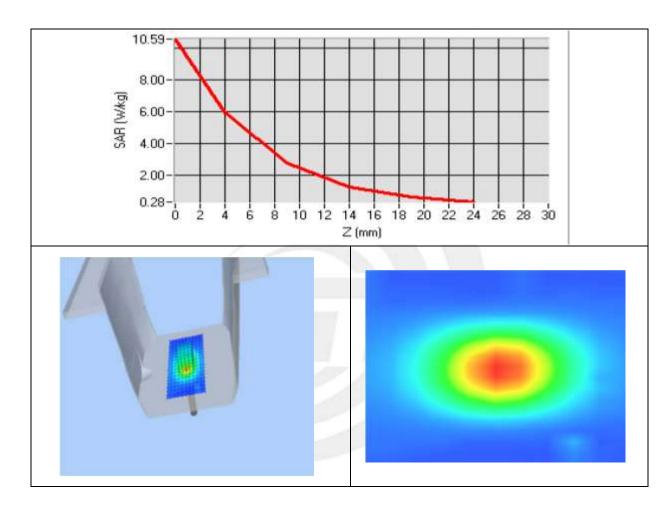




Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.468341
SAR 1g (W/Kg)	5.452358

Z Axis Scan





System Performance Check Data(2600MHz Body)

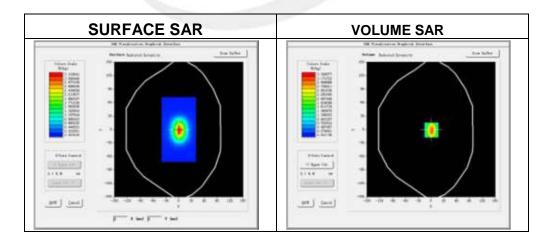
Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2016-01-15

Experimental conditions.

Device Position	Validation plane
Band	2600 MHz
Channels	-
Signal	CW
Frequency (MHz)	2600
Relative permittivity (real part)	52.36814
Relative permittivity	12.62485
Conductivity (S/m)	2.12000
Power drift (%)	2.31
Ambient Temperature	22.7°C
Liquid Temperature	22.3°C
Probe	SN 17/14 EP221
ConvF	4.32
Crest factor:	1:1





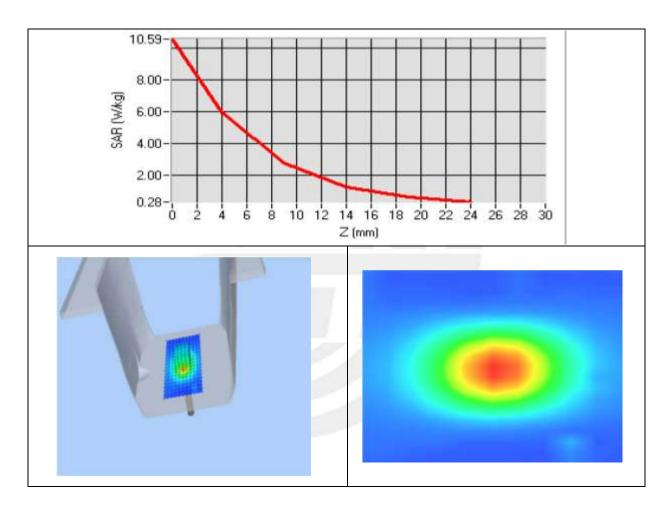




Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.398862
SAR 1g (W/Kg)	5.413682

Z Axis Scan







Appendix B. SAR Test Plots

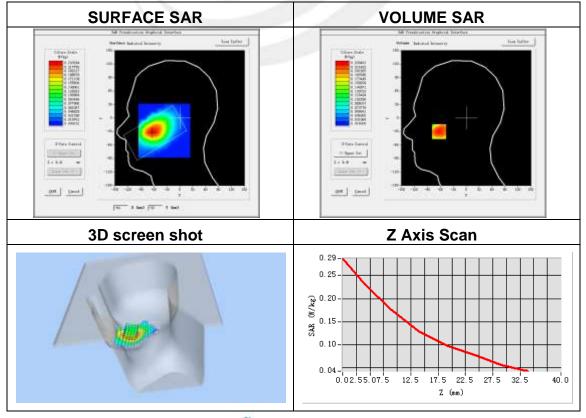
Plot 1: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	836.6
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	-2.43

Maximum location: X=-63.00, Y=-30.00

SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.158305
SAR 1g (W/Kg)	0.223425





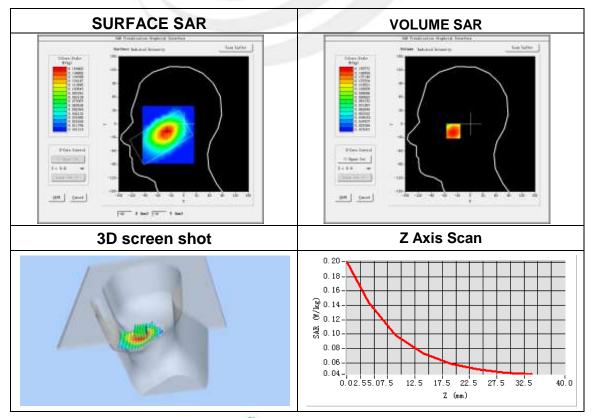
Plot 2: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Coon	5x5x7,dx=8mmdy=8mmdz=5mm,
Zoom Scan	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	836.6
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	-4.87
Band Channels Signal Frequency (MHz) Relative permittivity (real part) Conductivity (S/m)	GSM850 Middle TDMA (Crest factor: 8.32) 836.6 41.5 0.90

Maximum location: X=-39.00, Y=-15.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.110356
SAR 1g (W/Kg)	0.152719









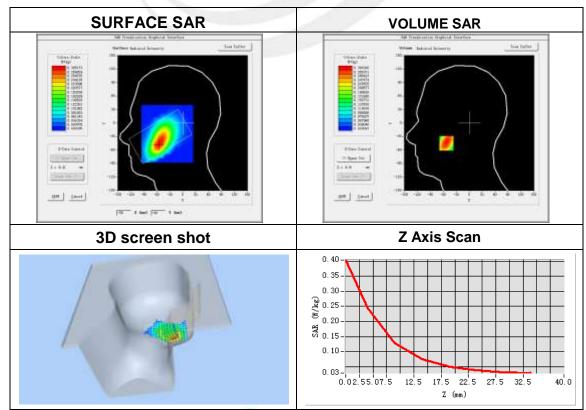


Plot 3: DUT: LTE smart phone; EUT Model: V.40R

_	
Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	836.6
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	-2.23

Maximum location: X=-53.00, Y=-45.00 SAR Peak: 0.41 W/kg

	3
SAR 10g (W/Kg)	0.199603
SAR 1g (W/Kg)	0.294317



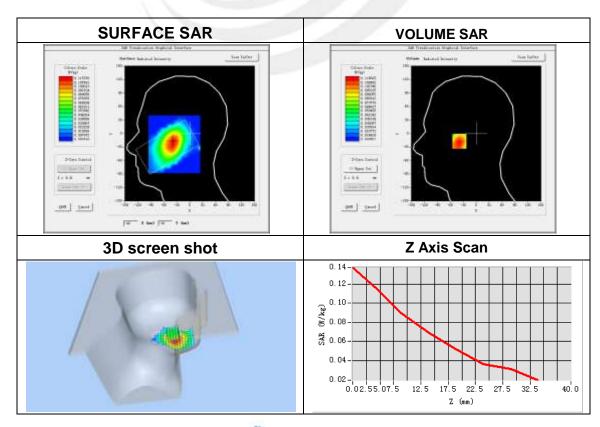


Plot 4: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.32)
Frequency (MHz)	836.6
Relative permittivity (real part)	41.5
Conductivity (S/m)	0.90
Variation (%)	-2.12

Maximum location: X=-39.00, Y=-17.00 SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.079818
SAR 1g (W/Kg)	0.111369





Plot 5: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Front
Band	EGPRS 850
Channels	High
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	-1.18

Maximum location: X=15.00, Y=-23.00

SAR Peak: 0.61 W/kg

SAR 10g (W/Kg)	0.294574
SAR 1g (W/Kg)	0.426275





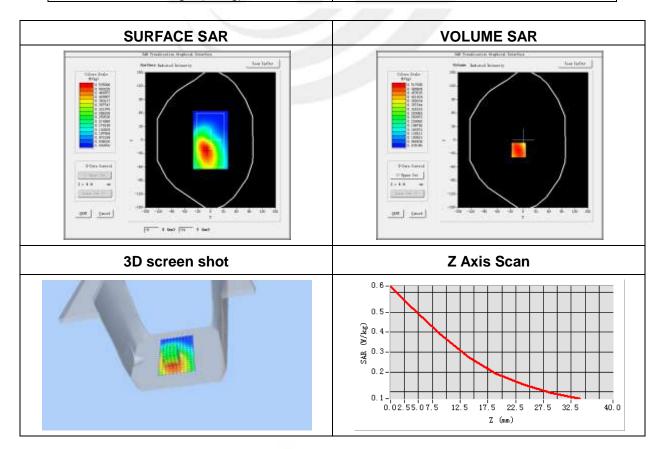
Plot 6: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Back
Band	EGPRS 850
Channels	High
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	0.30

Maximum location: X=-10.00, Y=-22.00

SAR Peak: 0.67 W/kg

SAR 10g (W/Kg)	0.347242
SAR 1g (W/Kg)	0.496368





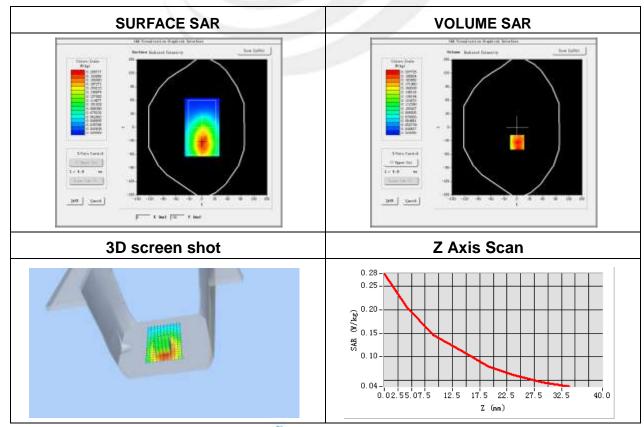


Plot 7: DUT: LTE smart phone; EUT Model: V.40R

· · · · · · · · · · · · · · · · · ·	
Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body lift side
Band	EGPRS 850
Channels	High
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	-0.88

Maximum location: X=0.00, Y=-33.00 SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.138624
SAR 1g (W/Kg)	0.197010



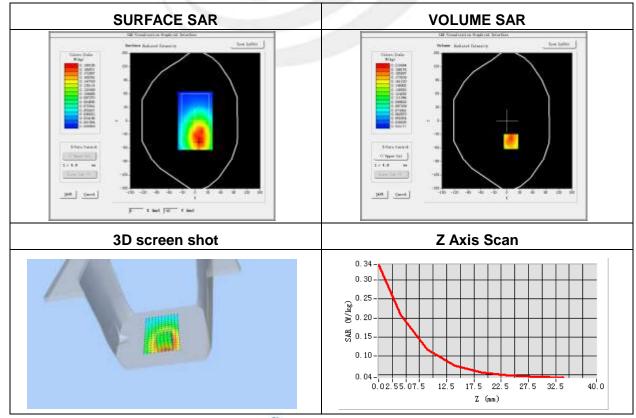


Plot 8: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	EGPRS 850
Channels	High
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	55.20
Conductivity (S/m)	0.97
Variation (%)	-0.66

Maximum location: X=0.00, Y=-48.00 SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.152363
SAR 1g (W/Kg)	0.231972





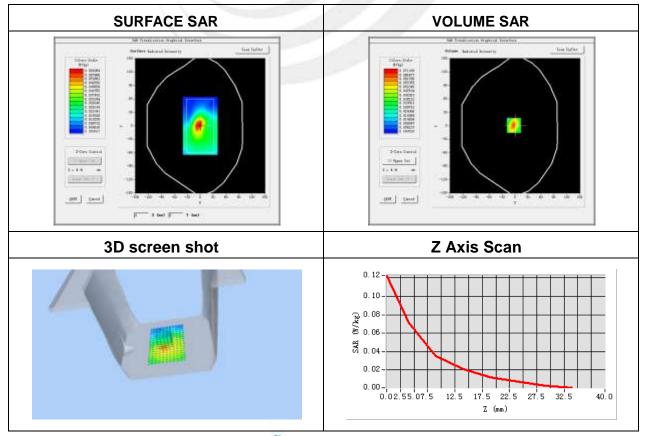
Plot 9: DUT: LTE smart phone; EUT Model: V.40R

2016-01-15
22.70
22.30
SN 17/14 EP221
5.02
dx=8mm dy=8mm, h= 5.00 mm
5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Validation plane
Body bottom side
EGPRS 850
High
Duty Cycle: 2.00 (Crest factor: 2.0)
848.8
55.20
0.97
-2.63

Maximum location: X=-3.00, Y=1.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.033892
SAR 1g (W/Kg)	0.067141





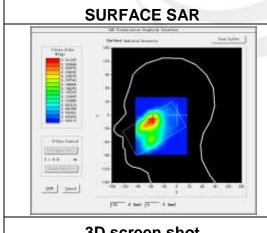
Plot 10: DUT: LTE smart phone; EUT Model: V.40R

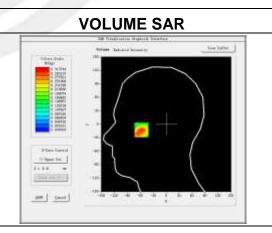
Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomSoon	5x5x7,dx=8mm dy=8mm dz=5mm,
ZoomScan	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	TDMA (Crest factor: 4.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-1.21

Maximum location: X=-57.00, Y=-10.00

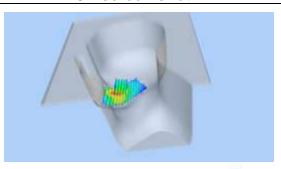
SAR Peak: 0.43 W/kg

SAR 10g (W/Kg)	0.185034
SAR 1g (W/Kg)	0.295290

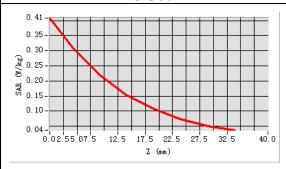




3D screen shot



Z Axis Scan



1/F., Building B. Zhuoke Science Park, No. 190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China Tel: 0755-36886288 Fax: 0755-36886277 Http://www.stsapp.com E-mail: sts@stsapp.com

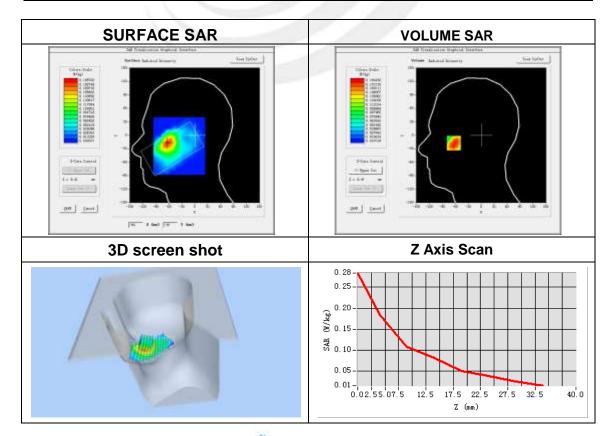


Plot 11: DUT: LTE smart phone; EUT Model: V.40R

2016 01 15
2016-01-15
22.70
22.30
SN 17/14 EP221
4.71
dx=8mm dy=8mm, h= 5.00 mm
5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Right head
Tilt
GSM1900
High
TDMA (Crest factor: 4.0)
1909.8
40.00
1.40
-4.63

Maximum location: X=-64.00, Y=-16.00 SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.111119
SAR 1g (W/Kg)	0.178647





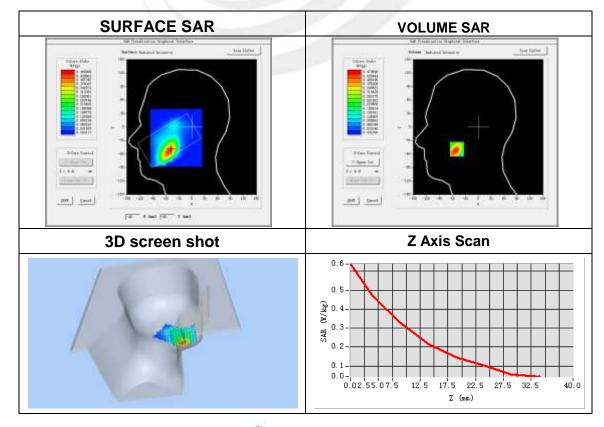
Plot 12: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	TDMA (Crest factor: 4.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-2.62

Maximum location: X=-49.00, Y=-49.00

SAR Peak: 0.68 W/kg

SAR 10g (W/Kg)	0.272306
SAR 1g (W/Kg)	0.461081



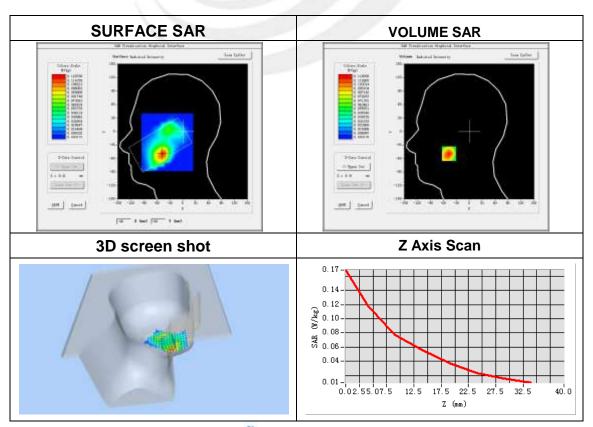


Plot 13: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
70	5x5x7,dx=8mm dy=8mm dz=5mm,
ZoomScan	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	GSM1900
Channels	High
Signal	TDMA (Crest factor: 4.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-2.46

Maximum location: X=-47.00, Y=-49.00 SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.068813
SAR 1g (W/Kg)	0.113263



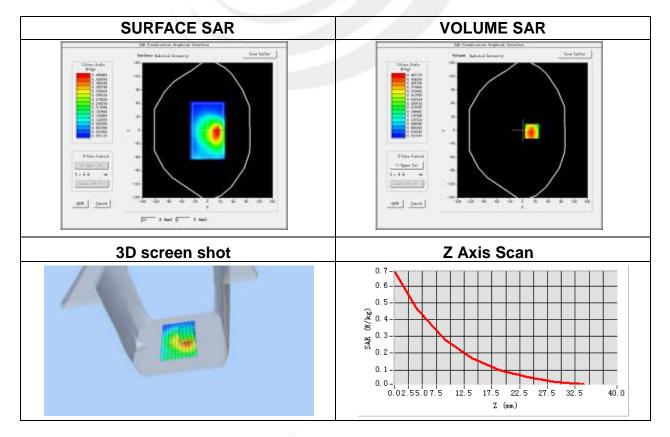


Plot 14: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front side
Band	EGPRS 1900
Channels	High
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-1.50

Maximum location: X=22.00, Y=-2.00 SAR Peak: 0.71 W/kg

SAR 10g (W/Kg)	0.258685
SAR 1g (W/Kg)	0.447286



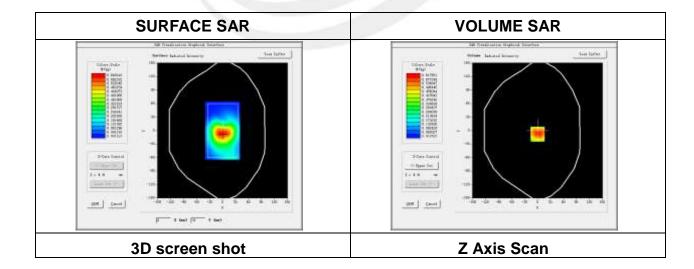


Plot 15: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Behind
Band	EGPRS 1900
Channels	High
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	0.19

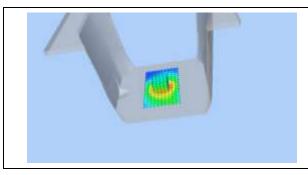
Maximum location: X=0.00, Y=-8.00 SAR Peak: 0.92 W/kg

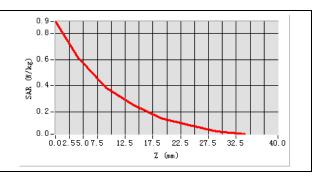
SAR 10g (W/Kg) 0.355225 SAR 1g (W/Kg) 0.595300









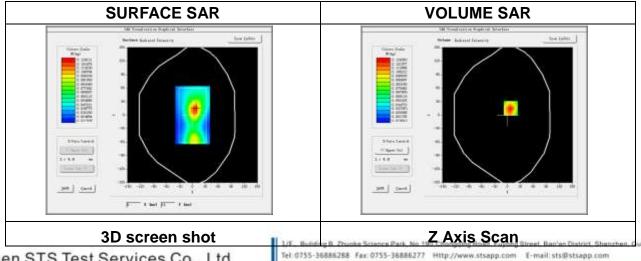


Plot 16: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	EGPRS 1900
Channels	High
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	0.99

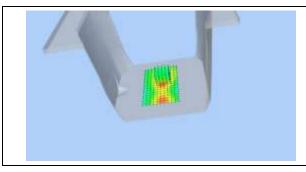
Maximum location: X=2.00, Y=-7.00 SAR Peak: 0.30 W/kg

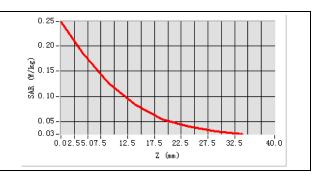
SAR 10g (W/Kg)	0.126687
SAR 1g (W/Kg)	0.199718











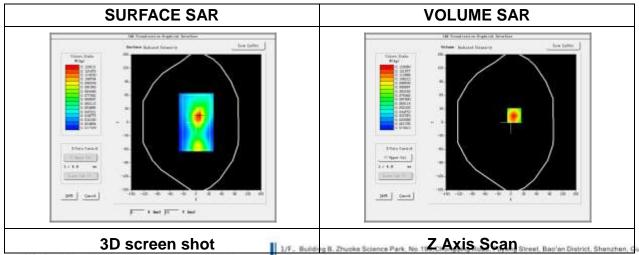
Plot 17: DUT: LTE smart phone; EUT Model: V.40R

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Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body lift side
Band	EGPRS 1900
Channels	High
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-1.84

Maximum location: X=9.00, Y=24.00

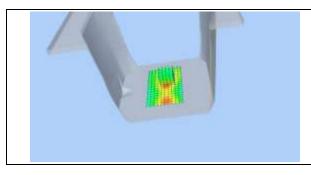
SAR Peak: 0.20 W/kg

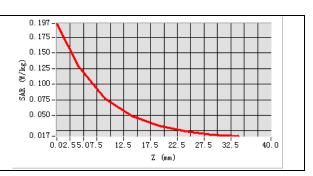
SAR 10g (W/Kg)	0.074682
SAR 1g (W/Kg)	0.1256824



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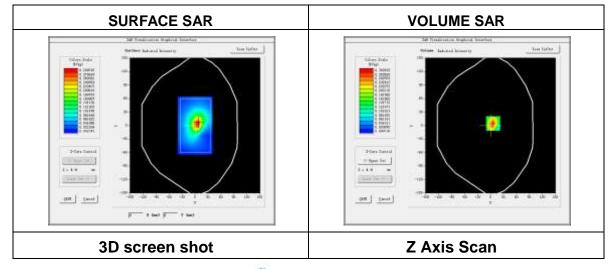


Plot 18: DUT: LTE smart phone; EUT Model: V.40R

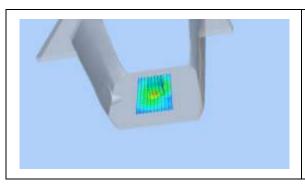
Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
70000000	5x5x7,dx=8mm dy=8mm dz=5mm,
ZoomScan	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body bottom side
Band	EGPRS 1900
Channels	High
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-1.66

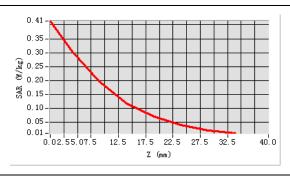
Maximum location: X=6.00, Y=5.00 SAR Peak:0.43 W/kg

	0
SAR 10g (W/Kg)	0.150979
SAR 1g (W/Kg)	0.281843









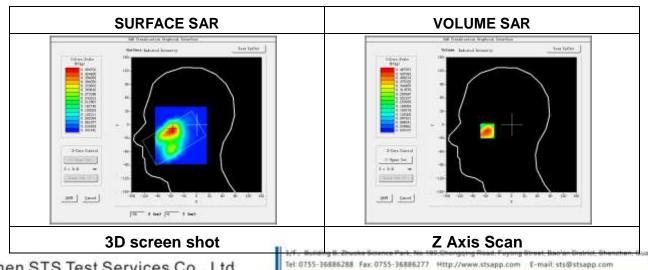
Plot 19: DUT: LTE smart phone; EUT Model: V.40R

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Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	WCDMA II
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1880.0
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-1.45
	•

Maximum location: X=-56.00, Y=-11.00

SAR Peak: 0.64 W/kg

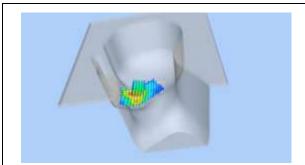
SAR 10g (W/Kg)	0.275464
SAR 1g (W/Kg)	0.448280

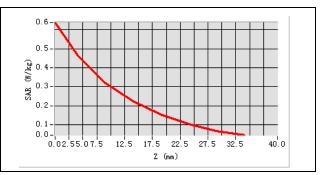
















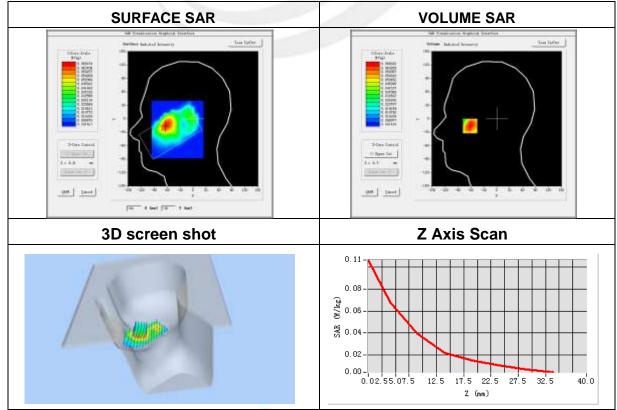


Plot 20: DUT: LTE smart phone; EUT Model: V.40R

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Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	WCDMA II
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1880.0
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-1.29

Maximum location: X=-62.00, Y=-14.00 SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.038656
SAR 1g (W/Kg)	0.066815





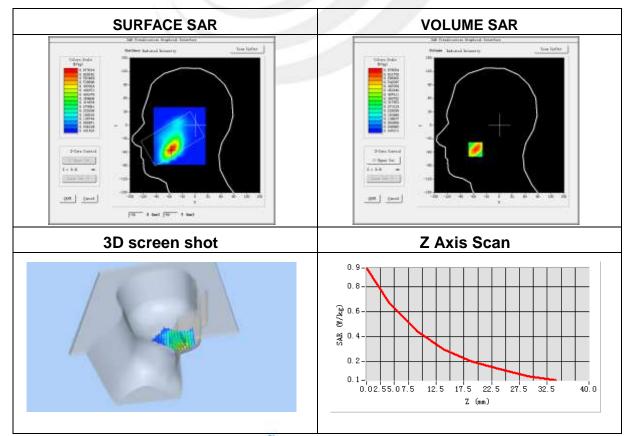
Plot 21: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA II
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1880.0
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-3.18

Maximum location: X=-55.00, Y=-54.00

SAR Peak: 0.95 W/kg

SAR 10g (W/Kg)	0.377564
SAR 1g (W/Kg)	0.643560



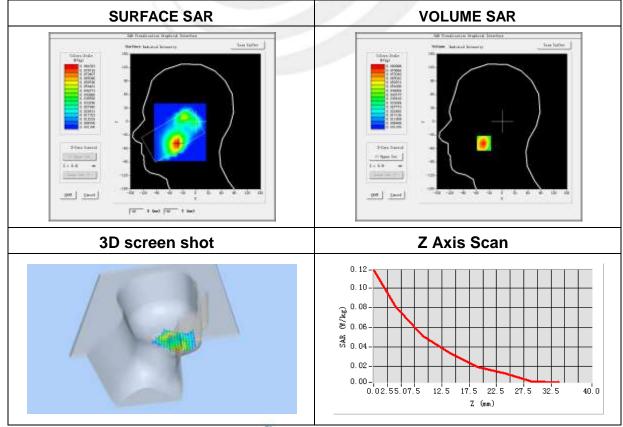


Plot 22: DUT: LTE smart phone; EUT Model: V.40R

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Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
Zoomscan	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	WCDMA II
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1880.0
Relative permittivity (real part)	40.00
Conductivity (S/m)	1.40
Variation (%)	-3.75

Maximum location: X=-42.00, Y=-48.00 SAR Peak: 0.12 W/kg

SAR 10g (W/Kg) 0.043929 SAR 1g (W/Kg) 0.077213





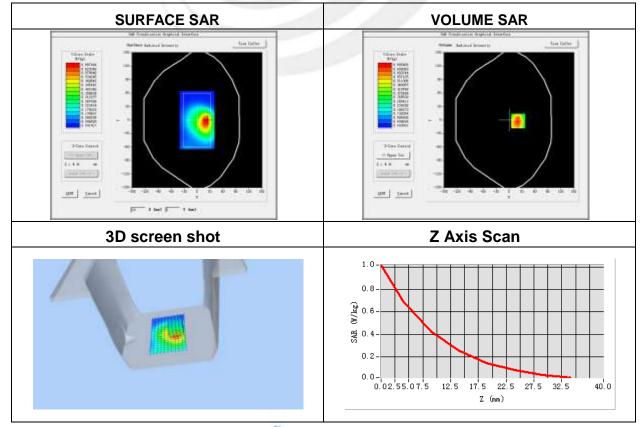
Plot 23: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Front
Band	WCDMA II
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1880.0
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	0.03

Maximum location: X=21.00, Y=-2.00

SAR Peak: 1.02 W/kg

SAR 10g (W/Kg)	0.374041
SAR 1g (W/Kg)	0.657347





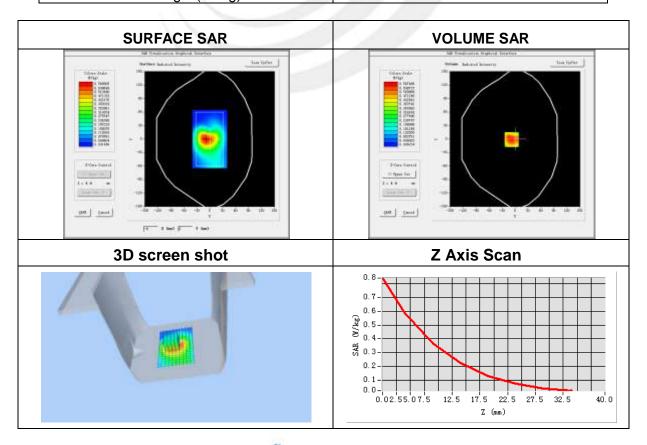


Plot 24: DUT: LTE smart phone; EUT Model: V.40R

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Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back side
Band	WCDMA II
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1880.0
Relative permittivity (real part)	39.71
Conductivity (S/m)	1.40
Variation (%)	-1.50

Maximum location: X=-8.00, Y=-1.00 SAR Peak: 0.87 W/kg

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SAR 10g (W/Kg)	0.330354
SAR 1g (W/Kg)	0.565085





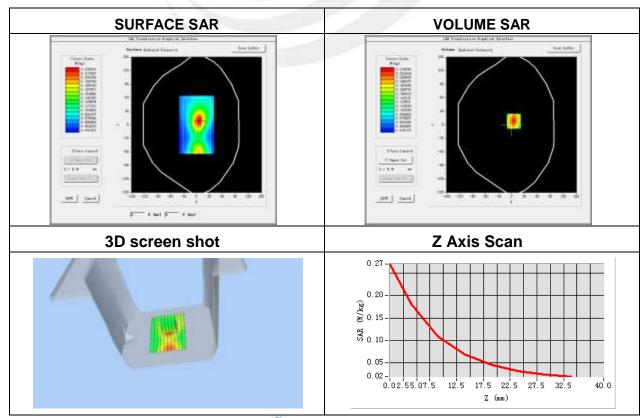


Plot 25: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	WCDMA II
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1880.0
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.13

Maximum location: X=5.00, Y=8.00 SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.126734
SAR 1g (W/Kg)	0.205667



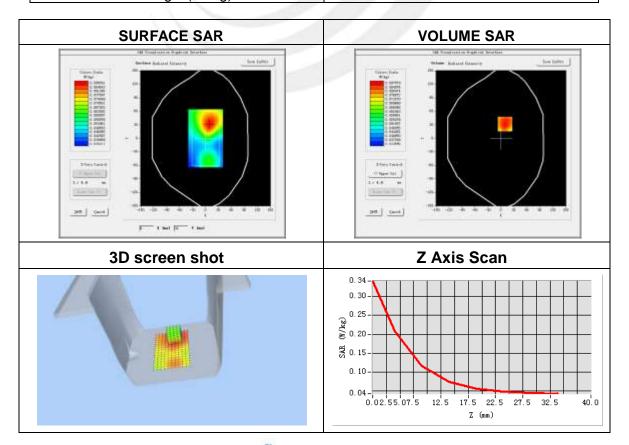


Plot 26: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	WCDMA II
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1880.0
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.49

Maximum location: X=2.00, Y=-6.00 SAR Peak:0.37 W/kg

SAR 10g (W/Kg)	0.162925
SAR 1g (W/Kg)	0.251231



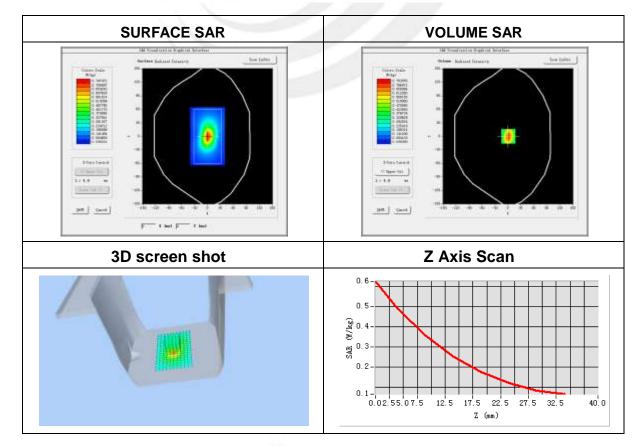


Plot 27: DUT: LTE smart phone; EUT Model: V.40R

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Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Bottom side
Band	WCDMA II
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1880.0
Relative permittivity (real part)	53.30
Conductivity (S/m)	1.52
Variation (%)	-0.27

Maximum location: X=1.00, Y=-7.00 SAR Peak: 0.67 W/kg

SAR 10g (W/Kg)	0.431568
SAR 1g (W/Kg)	0.364975



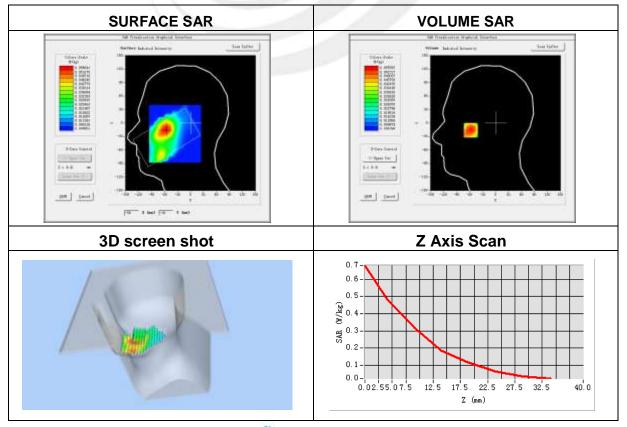


Plot 28: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	WCDMA IV
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1752.6
Relative permittivity (real part)	39.57
Conductivity (S/m)	1.43
Variation (%)	-2.54

Maximum location: X=-57.00, Y=-14.00 SAR Peak: 0.70 W/kg

	<u> </u>
SAR 10g (W/Kg)	0.356090
SAR 1g (W/Kg)	0.533013







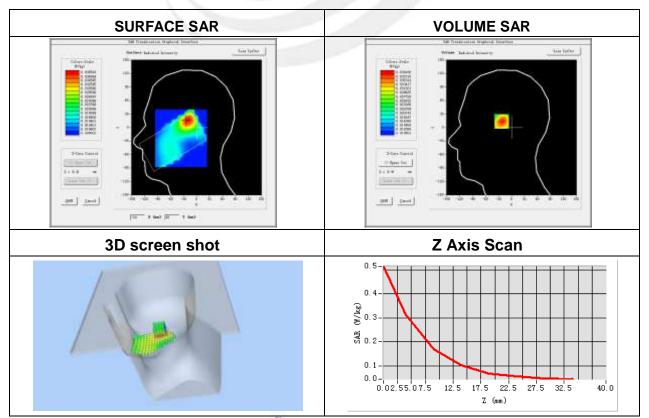
Plot 29: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
Zoomscan	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	WCDMA IV
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1752.6
Relative permittivity (real part)	39.57
Conductivity (S/m)	1.43
Variation (%)	4.48

Maximum location: X=-21.00, Y=16.00

SAR Peak: 0.50 W/kg

SAR 10g (W/Kg)	0.263958
SAR 1g (W/Kg)	0.381066





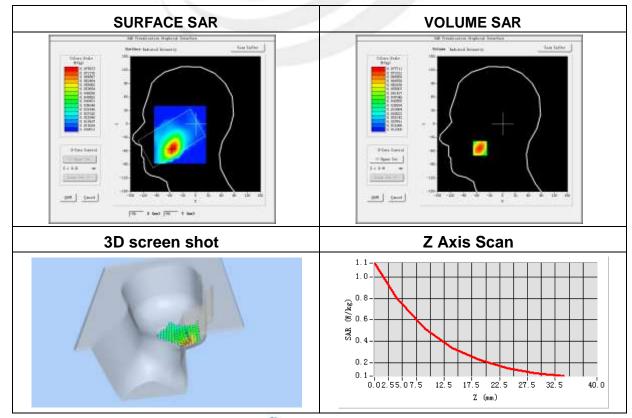
Plot 30: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA IV
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1752.6
Relative permittivity (real part)	39.57
Conductivity (S/m)	1.43
Variation (%)	-2.80

Maximum location: X=-52.00, Y=-54.00

SAR Peak: 1.10 W/kg

SAR 10g (W/Kg)	0.496010
SAR 1g (W/Kg)	0.751243



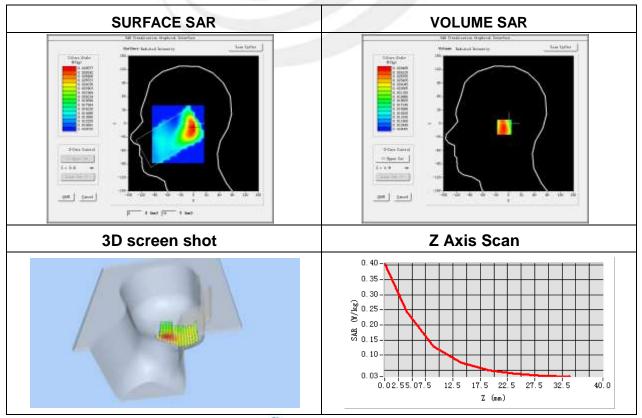


Plot 31: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	WCDMA IV
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1752.6
Relative permittivity (real part)	39.57
Conductivity (S/m)	1.43
Variation (%)	-2.12
variation (%)	-2.12

Maximum location: X=-2.00, Y=8.00 SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.121263
SAR 1g (W/Kg)	0.286126



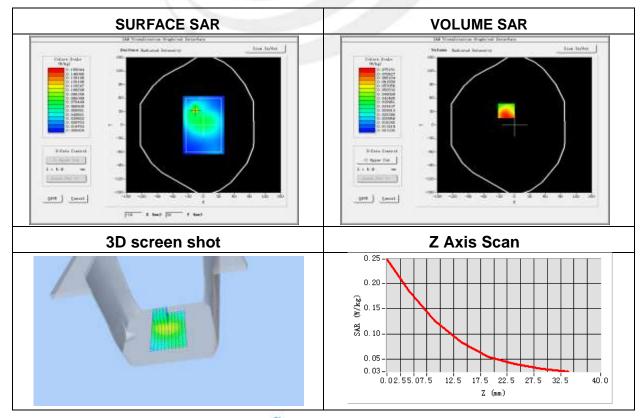


Plot 32: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Front
Band	WCDMA IV
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1752.6
Relative permittivity (real part)	39.71
Conductivity (S/m)	1.40
Variation (%)	1.98

Maximum location: X=16.00, Y=32.00 SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.044035
SAR 1g (W/Kg)	0.172151





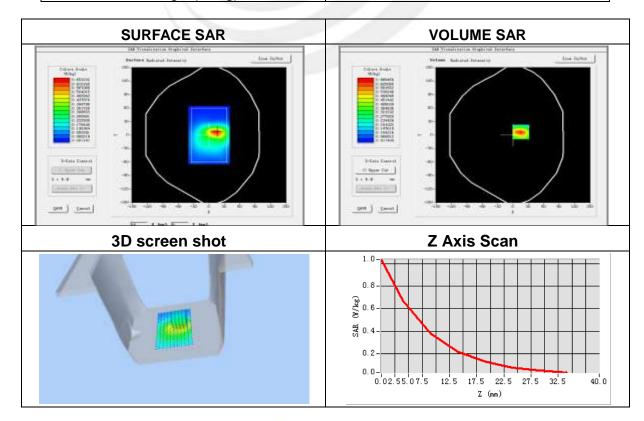
Plot 33: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
70000000	5x5x7,dx=8mm dy=8mm dz=5mm,
ZoomScan	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back side
Band	WCDMA IV
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1752.6
Relative permittivity (real part)	39.71
Conductivity (S/m)	1.40
Variation (%)	0.05
	•

Maximum location: X=15.00, Y=7.00

SAR Peak: 1.04 W/kg

	0.000000
SAR 10g (W/Kg)	0.333209
SAR 1g (W/Kg)	0.629277



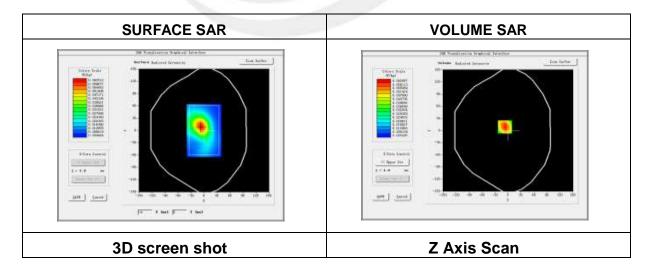


Plot 34: DUT: LTE smart phone; EUT Model: V.40R

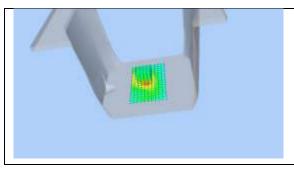
Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
7 0	5x5x7,dx=8mm dy=8mm dz=5mm,
ZoomScan	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Left side
Band	WCDMA IV
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1752.6
Relative permittivity (real part)	39.71
Conductivity (S/m)	1.40
Variation (%)	0.82

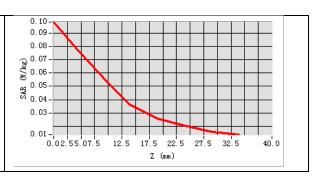
Maximum location: X=-9.00, Y=12.00 SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.037627
SAR 1g (W/Kg)	0.063283







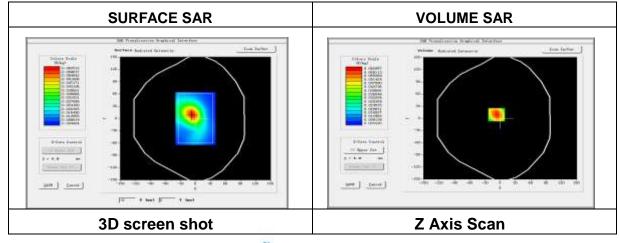


Plot 35: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	WCDMA IV
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1752.6
Relative permittivity (real part)	39.71
Conductivity (S/m)	1.40
Variation (%)	-0.69
	•

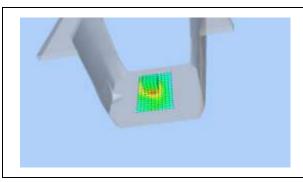
Maximum location: X=-7.00, Y=9.00 SAR Peak: 0.09 W/kg

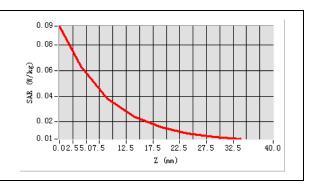
SAR 10g (W/Kg)	0.036093
SAR 1g (W/Kg)	0.060903











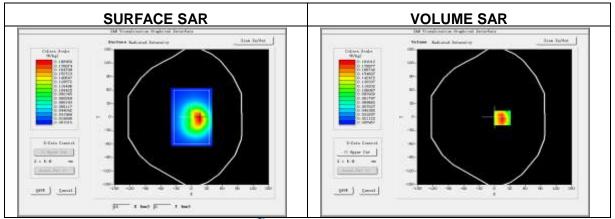
Plot 36: DUT: LTE smart phone; EUT Model: V.40R

2016-01-15
22.70
22.30
SN 17/14 EP221
4.34
dx=8mm dy=8mm, h= 5.00 mm
5x5x7,dx=8mm dy=8mm dz=5mm,
Complete/ndx=8mm dy=8mm, h= 5.00 mm
Validation plane
Body bottom side
WCDMA IV
High
WCDMA (Crest factor: 1.0)
1752.6
39.57
1.43
-0.24

Maximum location: X=15.00, Y=-2.00

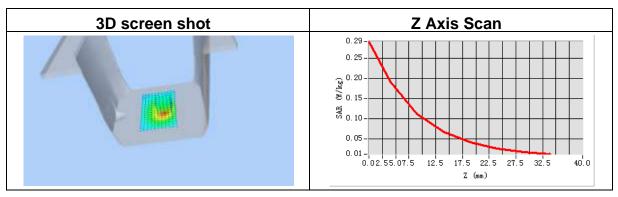
SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.103617
SAR 1g (W/Kg)	0.182601



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Plot 37: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	WCDMA V
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-3.95

Maximum location: X=-63.00, Y=-31.00

SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.116081
SAR 1g (W/Kg)	0.169951

SURFACE SAR	VOLUME SAR
SOILI AGE SAIL	VOESINE SAIL





Plot 38: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	WCDMA V
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-2.26

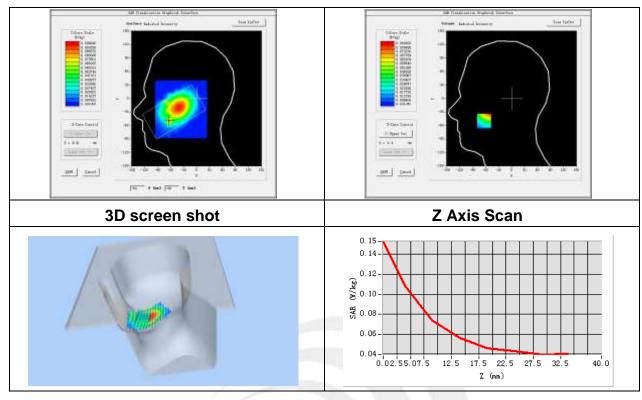
Maximum location: X=-64.00, Y=-50.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.042170
SAR 1g (W/Kg)	0.073959

SURFACE SAR VOLUME SAR





Plot 39: DUT: LTE smart phone; EUT Model: V.40R

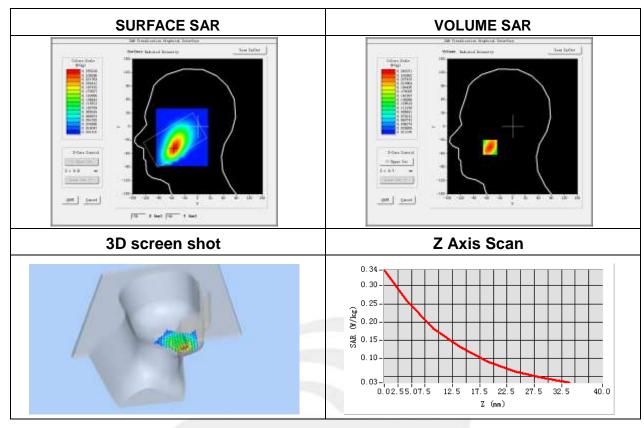
Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA V
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-2.45

Maximum location: X=-52.00, Y=-46.00

SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.164051
SAR 1g (W/Kg)	0.250189





Plot 40: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	WCDMA V
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	42.27
Conductivity (S/m)	0.91
Variation (%)	-2.76

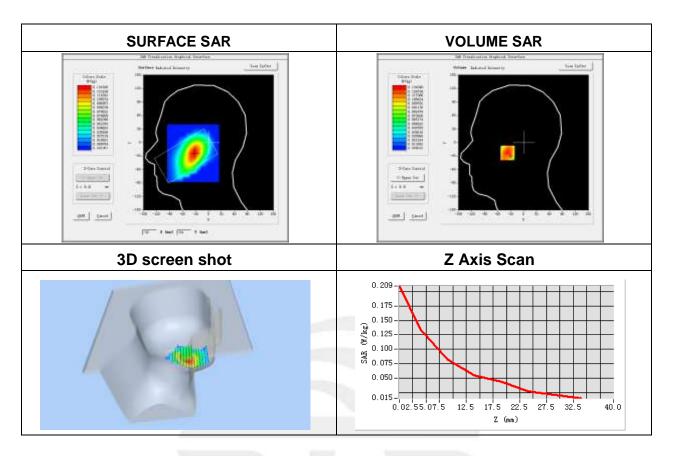
Maximum location: X=-33.00, Y=-23.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.084461
SAR 1g (W/Kg)	0.128811

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Plot 41: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	WCDMA V
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-1.33

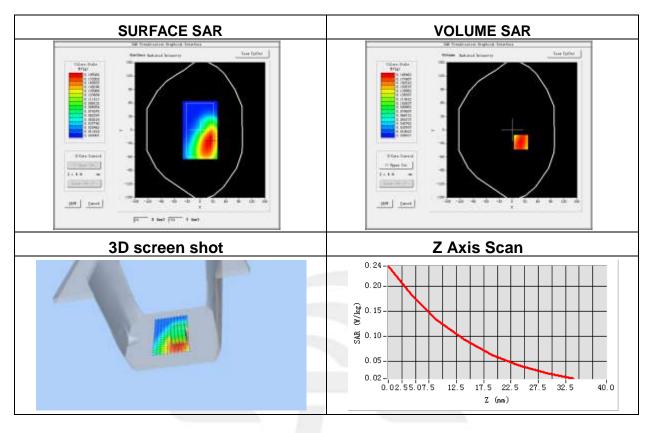
Maximum location: X=20.00, Y=-27.00

SAR Peak: 0.26 W/kg



Page 120 of 172 Report No.: STS1601014H01

SAR 10g (W/Kg)	0.124470
SAR 1g (W/Kg)	0.183307



Plot 42: DUT: LTE smart phone; EUT Model: V.40R

42. DOT. LTE SMart phone, LOT Mode	JII TITOR
Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	WCDMA V
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-1.87
Maximum langtion, V. 0.00 V. 40.00	

Maximum location: X=-8.00, Y=-19.00

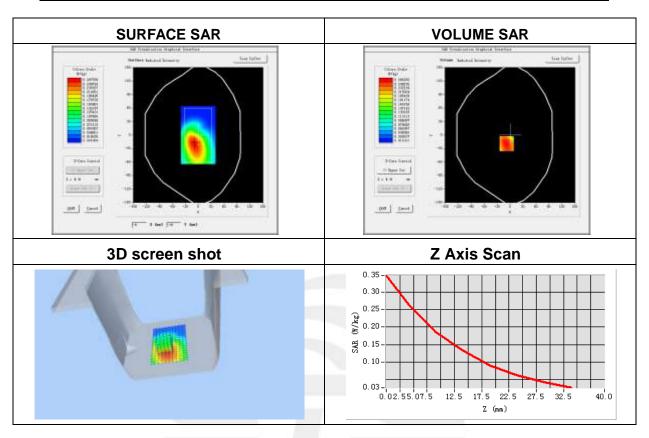
SAR Peak: 0.36 W/kg

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Page 121 of 172 Report No.: STS1601014H01

SAR 10g (W/Kg)	0.176757
SAR 1g (W/Kg)	0.259779



Plot 43: DUT: LTE smart phone; EUT Model: V.40R

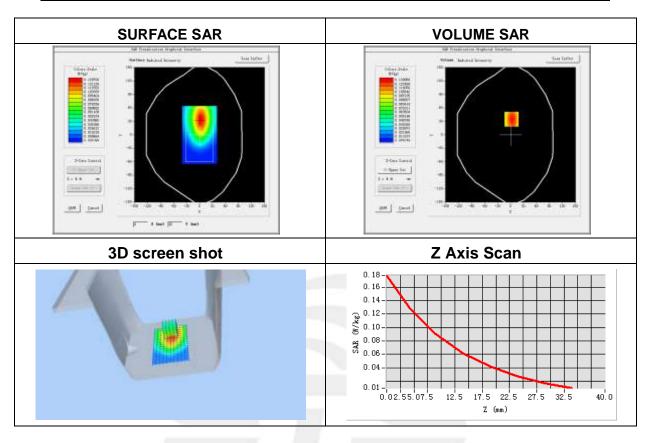
Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	WCDMA V
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-0.36

Maximum location: X=2.00, Y=35.00



Page 122 of 172 Report No.: STS1601014H01

SAR 10g (W/Kg)	0.083055
SAR 1g (W/Kg)	0.127194



Plot 44: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	WCDMA V
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-1.56

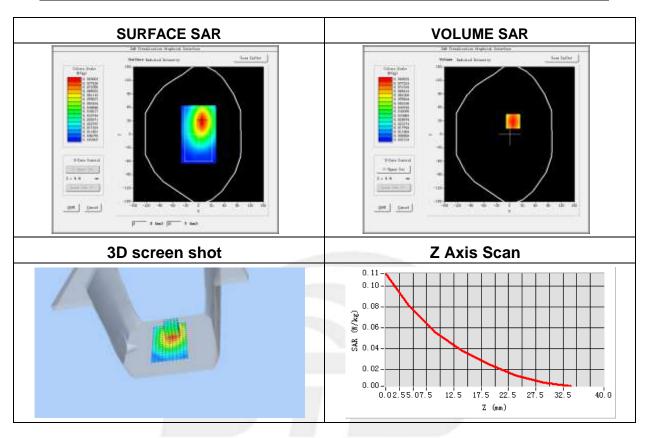
Maximum location: X=8.00, Y=29.00



Page 123 of 172 Report No.: STS1601014H01

SAR Peak: 0.11 W/kg

	<u> </u>
SAR 10g (W/Kg)	0.051467
SAR 1g (W/Kg)	0.079664



Plot 45: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	5.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body bottom side
Band	WCDMA V
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	55.5
Conductivity (S/m)	0.96
Variation (%)	-2.79

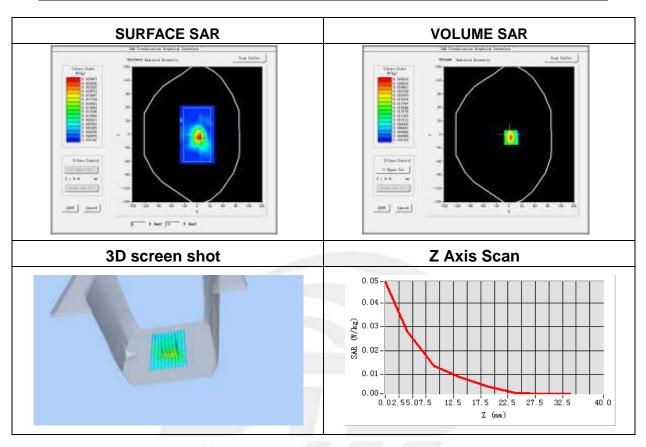
Maximum location: X=5.00, Y=-6.00



Page 124 of 172 Report No.: STS1601014H01

SAR Peak: 0.05 W/kg

SAR 10g (W/Kg)	0.012488
SAR 1g (W/Kg)	0.026646



Plot 46: DUT:smart phone; EUT Model: Ilium L200

Test Data	2016-01-15
Probe	SN 17/14 EP221
ConvF	4.11
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-0.53

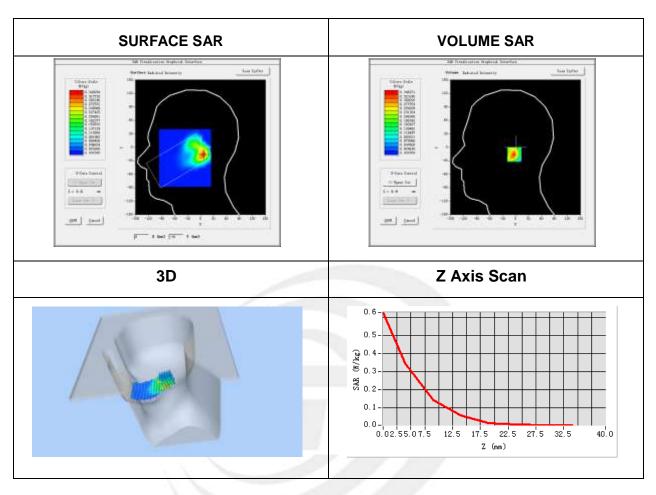
Maximum location: X=7.00, Y=-16.00

SAR Peak: 0.62 W/kg



Page 125 of 172 Report No.: STS1601014H01

SAR 10g (W/Kg)	0.141591
SAR 1g (W/Kg)	0.324782



Plot 47: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Probe	SN 17/14 EP221
ConvF	4.11
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-1.01

Maximum location: X=9.00, Y=-10.00

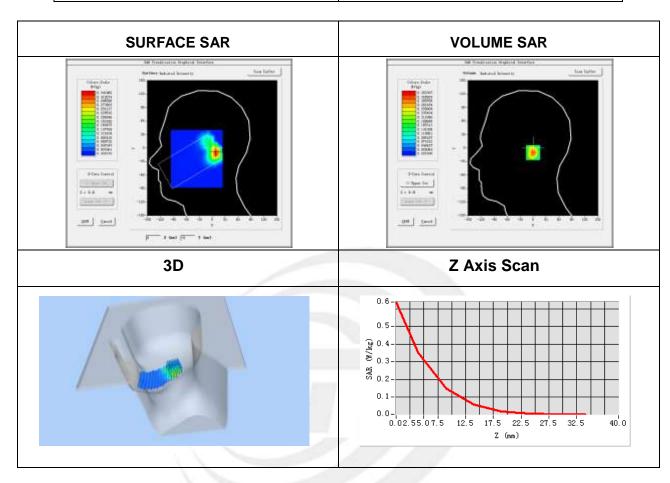
SAR Peak: 0.63 W/kg

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Page 126 of 172 Report No.: STS1601014H01

SAR 10g (W/Kg)	0.144173
SAR 1g (W/Kg)	0.333351



Plot 48: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Probe	SN 17/14 EP221
ConvF	4.11
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	0.03

Maximum location: X=-14.00, Y=16.00

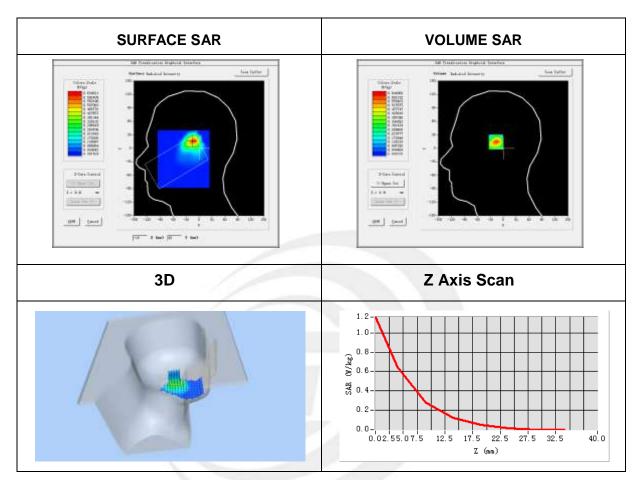


Report No.: STS1601014H01



SAR Peak: 0.76 W/kg

SAR 10g (W/Kg)	0.267945
SAR 1g (W/Kg)	0.405425



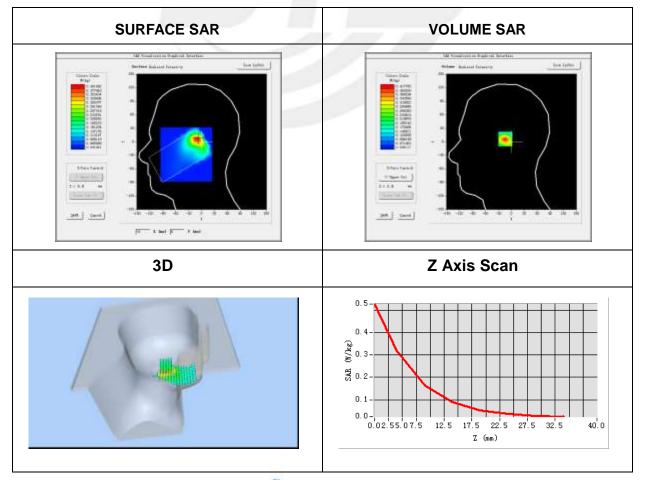


Plot 49: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Probe	SN 17/14 EP221
ConvF	4.11
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-0.95

Maximum location: X=-5.00, Y=17.00 SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.123407
SAR 1g (W/Kg)	0.215881



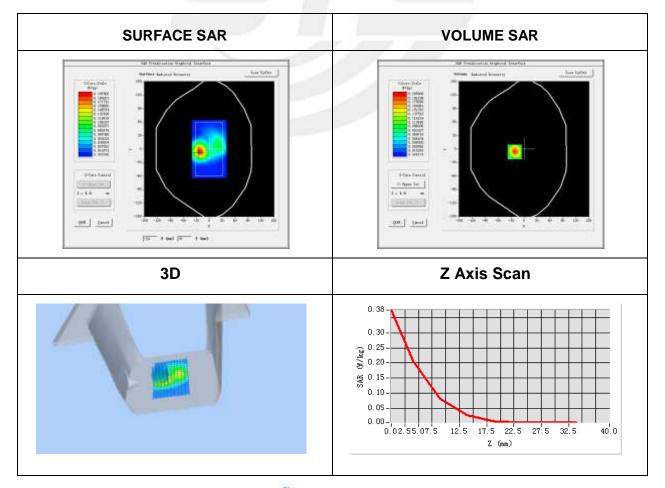


Plot 50: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Front side
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	0.30

Maximum location: X=-22.00, Y=-6.00 SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.083317
SAR 1g (W/Kg)	0.192890





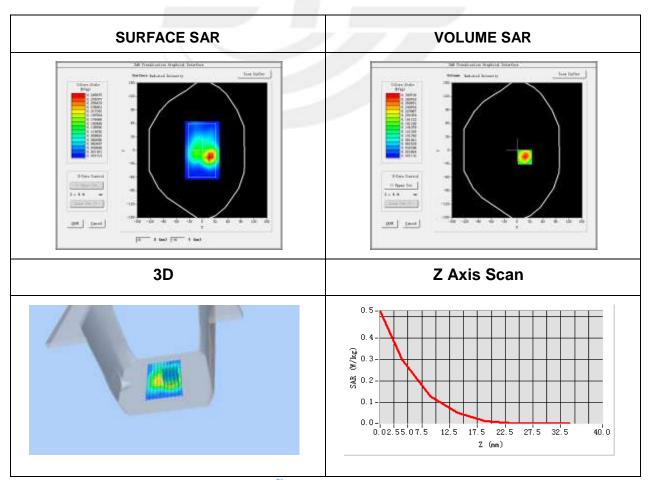


Plot 51: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back side
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-0.43

Maximum location: X=18.00, Y=-15.00 SAR Peak: 0.53 W/kg

SAR 10g (W/Kg)	0.128142
SAR 1g (W/Kg)	0.284317



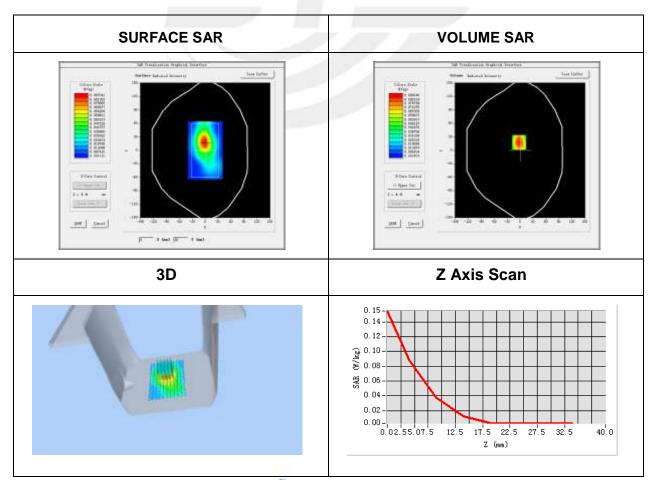


Plot 52: DUT: LTE smart phone; EUT Model: V.40R

2016-01-15 SN 17/14 EP221
SN 17/14 EP221
4.25
dx=8mm dy=8mm, h= 5.00 mm
x5x7,dx=8mm dy=8mm dz=5mm, blete/ndx=8mm dy=8mm, h= 5.00 mm
Validation plane
Body lift side
IEEE 802.11b ISM
Middle
IEEE802.b (Crest factor: 1.0)
2437
39.23
1.79
-3.59
)

Maximum location: X=-2.00, Y=18.00 SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.039260
SAR 1g (W/Kg)	0.084560



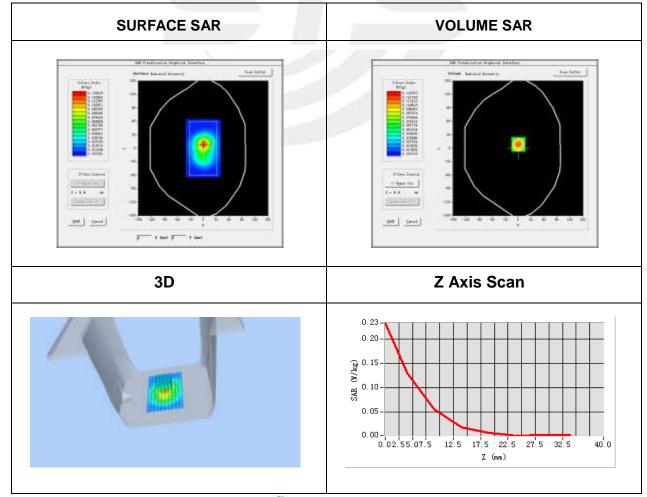


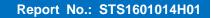
Plot 53: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body top side
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.79
Variation (%)	-1.08

Maximum location: X=1.00, Y=9.00 SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.055942
SAR 1g (W/Kg)	0.123277







Plot 54: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.71
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 2 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	-0.45

Maximum location: X=-50.00, Y=-63.00

SAR Peak: 0.81 W/kg

SAR 10g (W/Kg)	0.303819
SAR 1g (W/Kg)	0.513120



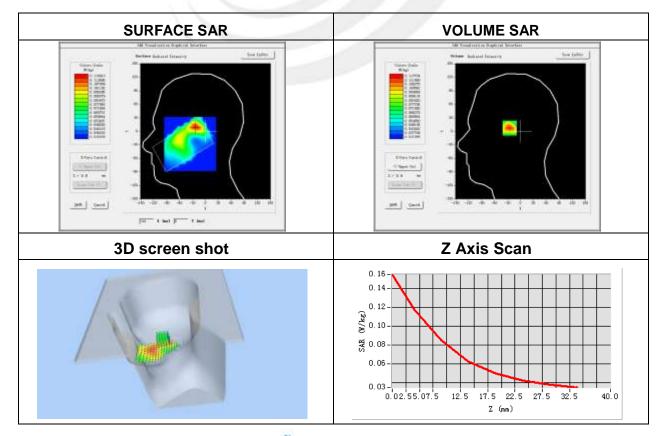


Plot 55: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	LTE Band 2 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	-0.04

Maximum location: X=-1.00, Y=-8.00 SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.072260
SAR 1g (W/Kg)	0.122827







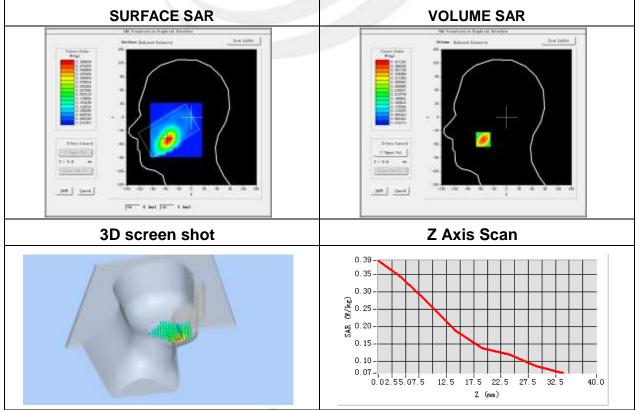
Plot 56: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 2 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	-0.63

Maximum location: X=-55.00, Y=-64.00

SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.168266
SAR 1g (W/Kg)	0.275654





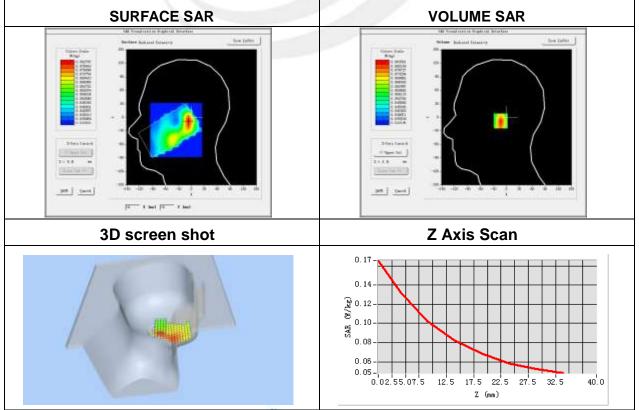
Plot 57: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.83
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	-0.42

Maximum location: X=-18.00, Y=14.00

SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.063881
SAR 1g (W/Kg)	0.105394



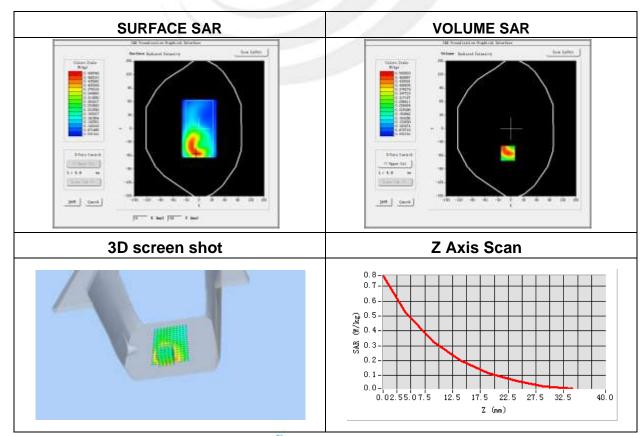


Plot 58: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	2.35

Maximum location: X=0.00, Y=25.00 SAR Peak: 0.79 W/kg

SAR 10g (W/Kg)	0.290662
SAR 1g (W/Kg)	0.504916



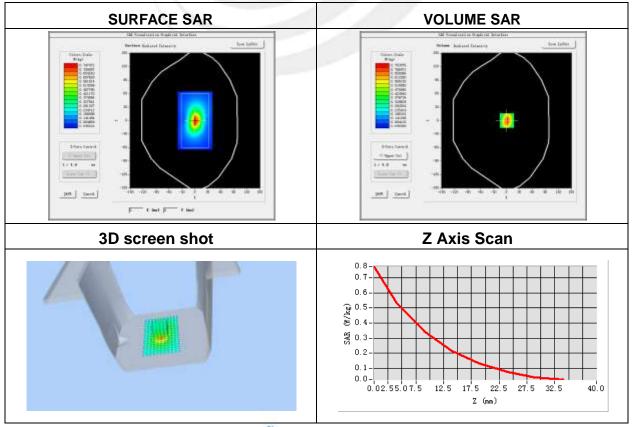


Plot 59: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	-3.45

Maximum location: X=9.00, Y=-48.00 SAR Peak: 0.77 W/kg

SAR 10g (W/Kg)	0.312366
SAR 1g (W/Kg)	0.519797





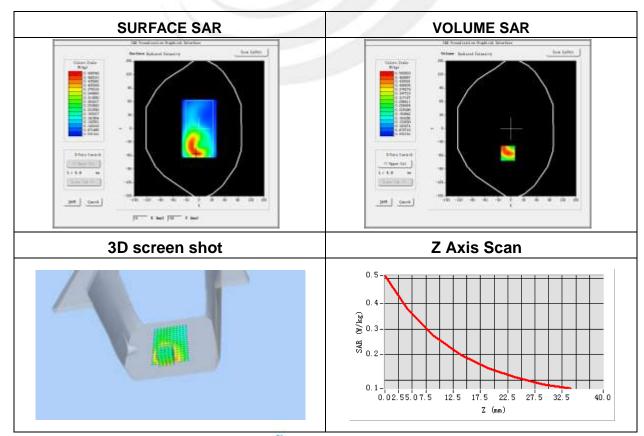


Plot 58: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	0.13

Maximum location: X=3.00, Y=29.00 SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.134693
SAR 1g (W/Kg)	0.379171







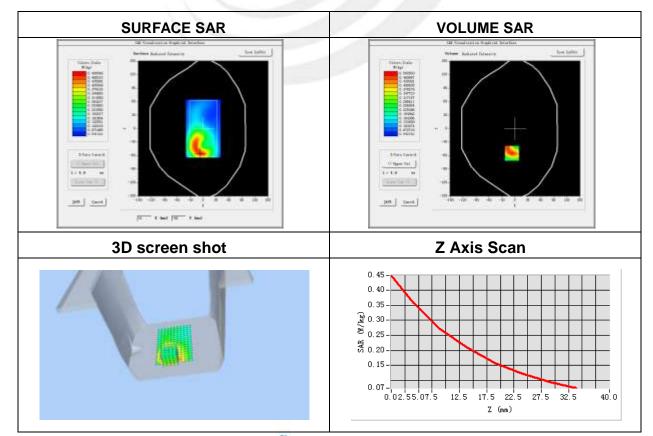
Plot 59: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right
Band	LTE Band 2(RB 50)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	-0.67

Maximum location: X=1.00, Y=25.00

SAR Peak: 0.45 W/kg

SAR 10g (W/Kg)	0.101402
SAR 1g (W/Kg)	0.293997





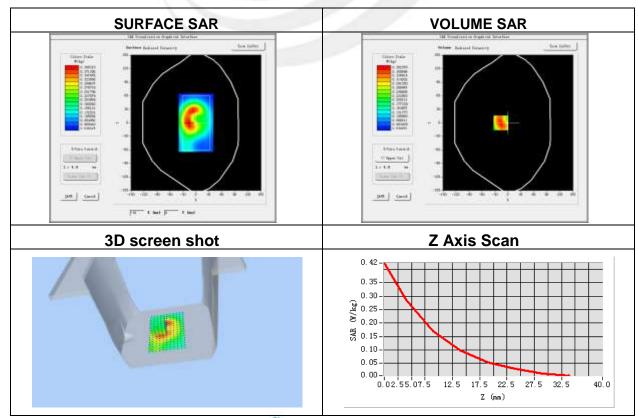
Plot 62: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.85
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body Bottom
Band	LTE Band 2(RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860.0
Relative permittivity (real part)	40.0
Conductivity (S/m)	0.91
Variation (%)	-0.59

Maximum location: X=-10.00, Y=25.00

SAR Peak: 0.42 W/kg

SAR 10g (W/Kg)	0.133304
SAR 1g (W/Kg)	0.259492







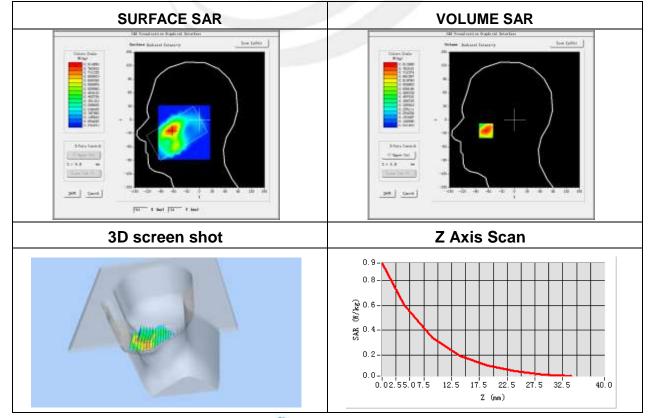
Plot 63: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 4 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1745
Relative permittivity (real part)	40.2
Conductivity (S/m)	1.31
Variation (%)	-1.30

Maximum location: X=-66.00, Y=-24.00

SAR Peak: 0.90 W/kg

	9
SAR 10g (W/Kg)	0.272430
SAR 1g (W/Kg)	0.574077



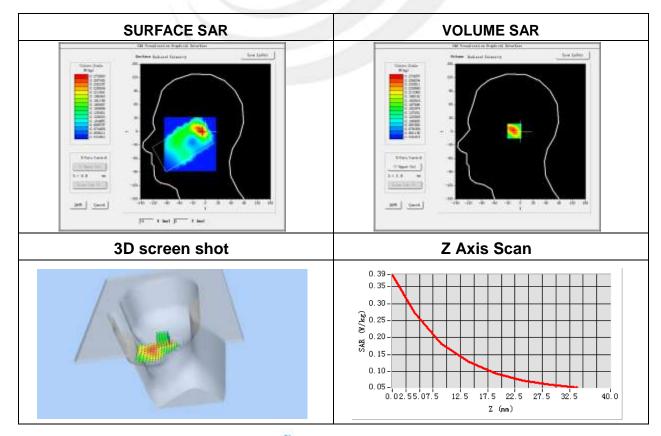


Plot 64: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	LTE Band 4 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1745
Relative permittivity (real part)	40.2
Conductivity (S/m)	1.31
Variation (%)	-0.47

Maximum location: X=-9.00, Y=1.00 SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.165611
SAR 1g (W/Kg)	0.262874







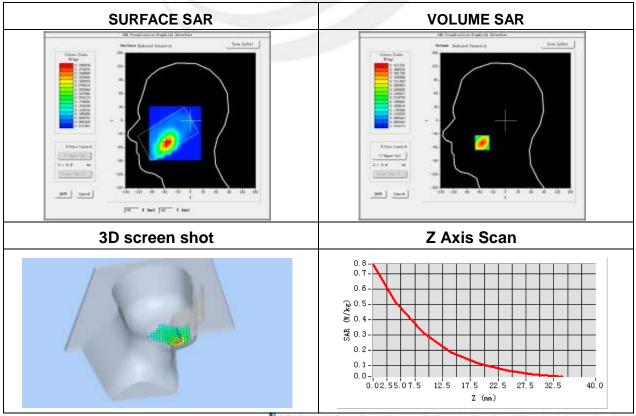
Plot 65: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 4 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1745
Relative permittivity (real part)	40.2
Conductivity (S/m)	1.31
Variation (%)	0.95

Maximum location: X=-55.00, Y=-55.00

SAR Peak: 0.85 W/kg

SAR 10g (W/Kg)	0.366225
SAR 1g (W/Kg)	0.548969







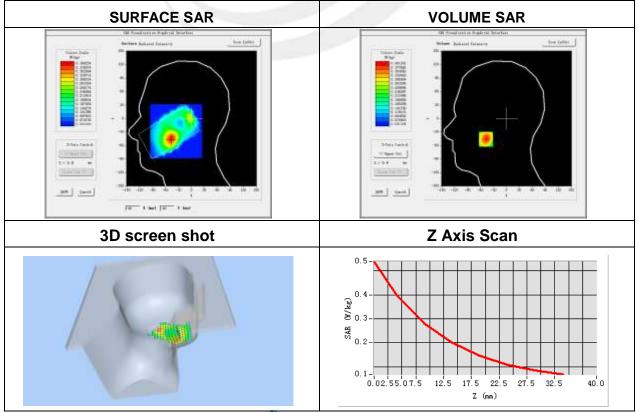
Plot 66: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.25
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	LTE Band 4 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1745
Relative permittivity (real part)	40.2
Conductivity (S/m)	1.31
Variation (%)	-0.55

Maximum location: X=-48.00, Y=-46.00

SAR Peak: 0.54 W/kg

SAR 10g (W/Kg)	0.148727
SAR 1g (W/Kg)	0.233685





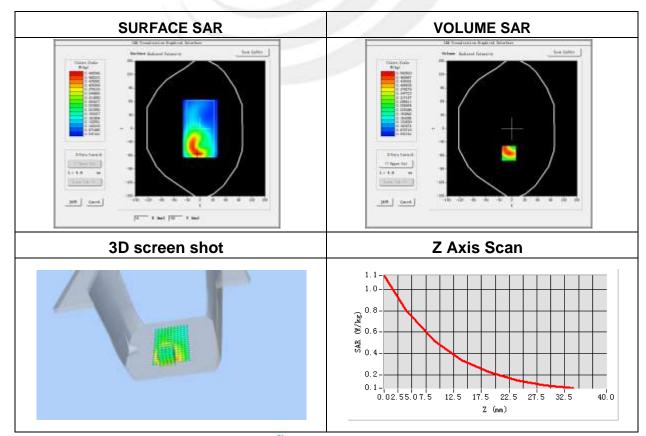


Plot 67: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	LTE Band 4 (RB 1)
Channels	Low
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	-2.62

Maximum location: X=17.00, Y=-7.00 SAR Peak: 1.10 W/kg

SAR 10g (W/Kg) 0.496438 SAR 1g (W/Kg) 0.702342





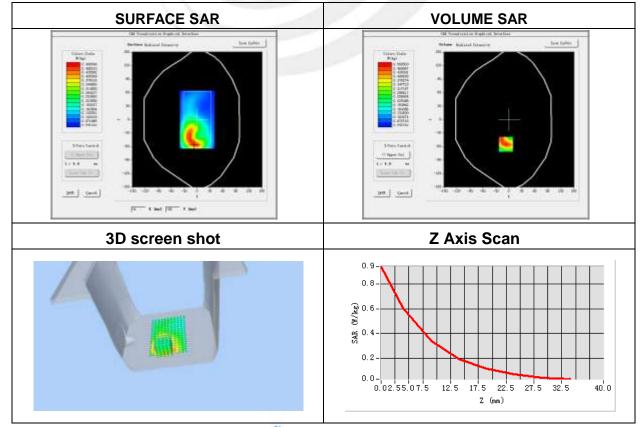
Plot 68: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	LTE Band 4 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1732.5
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	-1.91

Maximum location: X=15.00, Y=-7.00

SAR Peak: 0.92 W/kg

SAR 10g (W/Kg)	0.496831
SAR 1g (W/Kg)	0.716321





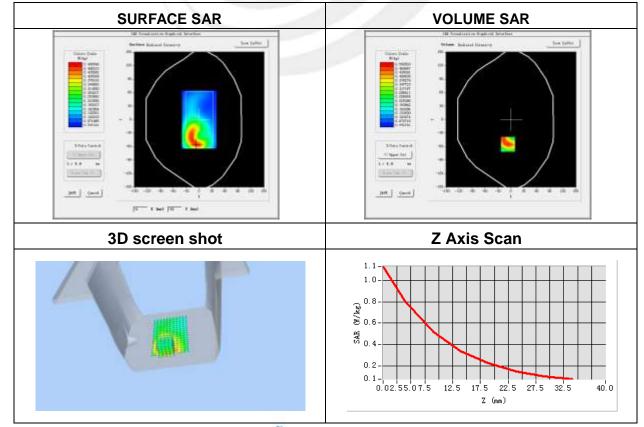
Plot 69: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	LTE Band 4 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1745.0
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	-0.88

Maximum location: X=15.00, Y=-2.00

SAR Peak: 1.12 W/kg

SAR 10g (W/Kg)	0.548721
SAR 1g (W/Kg)	0.812246



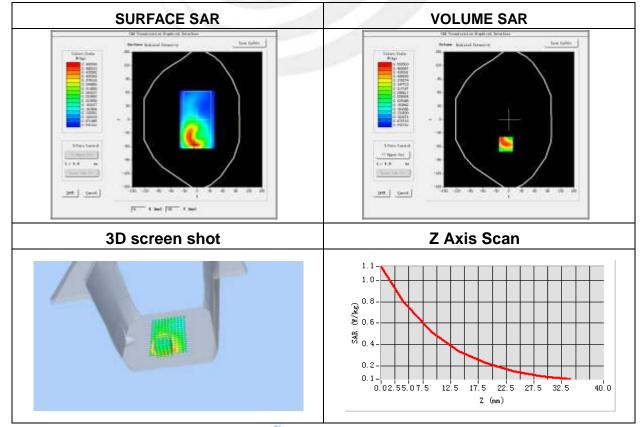


Plot 70: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front-repeated
Band	LTE Band 4 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1745.0
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	0.85

Maximum location: X=17.00, Y=-7.00 SAR Peak: 1.11 W/kg

SAR 10g (W/Kg) 0.513791 SAR 1g (W/Kg) 0.779827





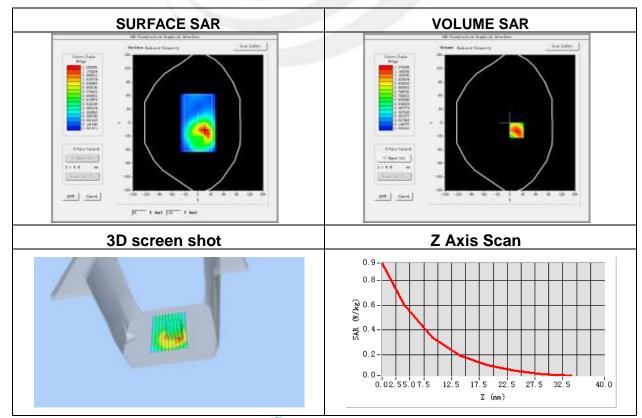
Plot 71: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 4 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1745
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	-0.70

Maximum location: X=25.00, Y=3.00

SAR Peak: 0.98 W/kg

SAR 10g (W/Kg)	0.463364
SAR 1g (W/Kg)	0.699929





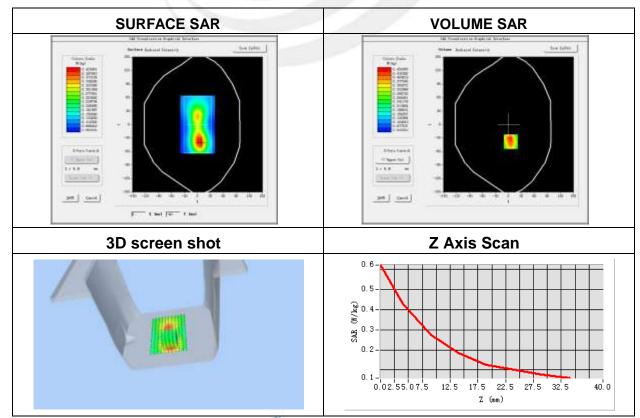
Plot 72: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	LTE Band 4 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1745
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	0.44

Maximum location: X=5.00, Y=-38.00

SAR Peak: 0.74 W/kg

SAR 10g (W/Kg)	0.260020
SAR 1g (W/Kg)	0.439145





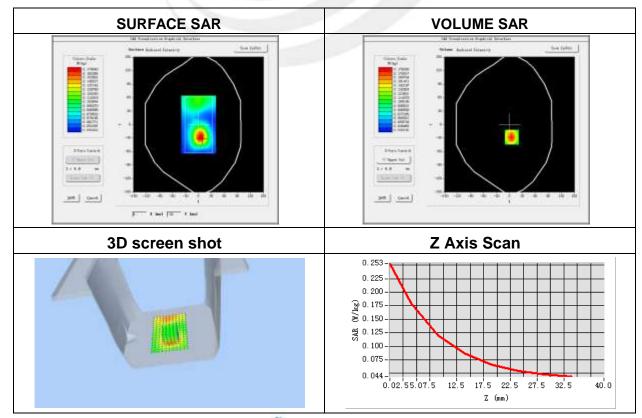
Plot 73: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	LTE Band 4 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1745
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	-0.63

Maximum location: X=5.00, Y=-28.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.113100
SAR 1g (W/Kg)	0.172991



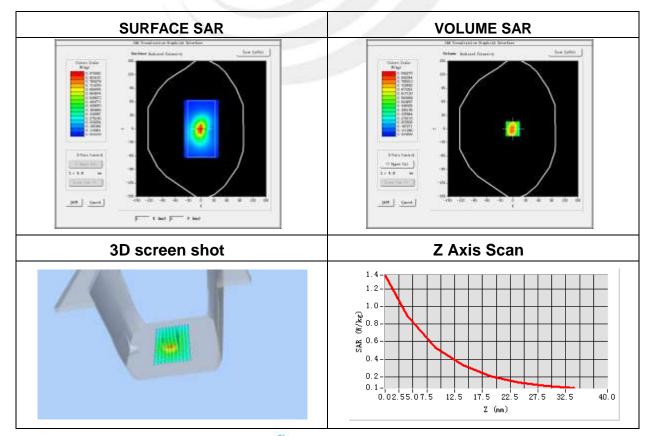


Plot 74: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.34
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body bottom side
Band	LTE Band 4 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1745
Relative permittivity (real part)	52.6
Conductivity (S/m)	1.38
Variation (%)	-0.55

Maximum location: X=-1.00, Y=-8.00 SAR Peak: 1.42 W/kg

o, so	
SAR 10g (W/Kg)	0.525982
SAR 1a (W/Ka)	0.791192





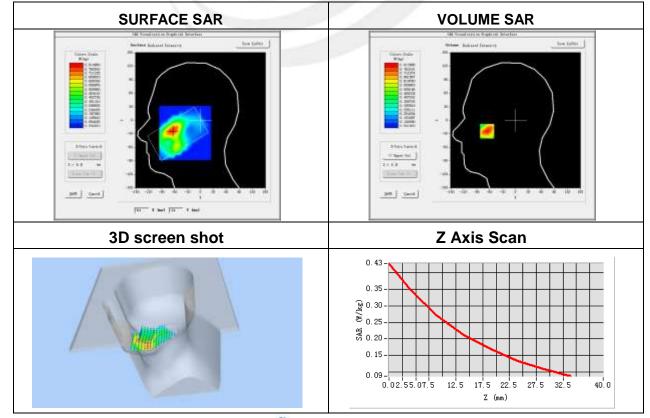
Plot 75: DUT: LTE smart phone; EUT Model: V.40R

	2010.01.15
Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.20
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 7 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2560
Relative permittivity (real part)	38.5
Conductivity (S/m)	1.92
Variation (%)	1.29

Maximum location: X=-50.00, Y=-10.00

SAR Peak: 0.43 W/kg

	3
SAR 10g (W/Kg)	0.236359
SAR 1a (W/Ka)	0.313881



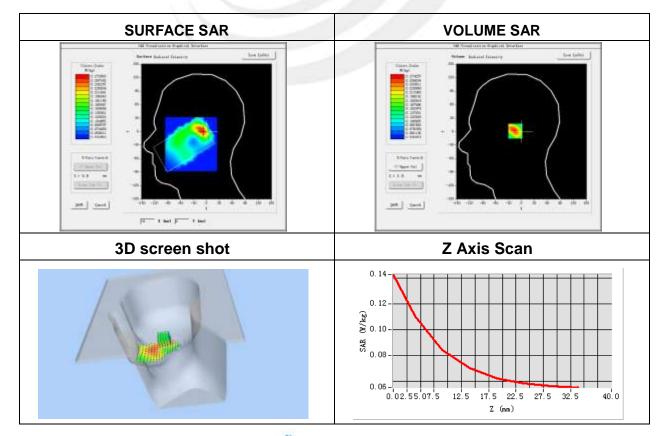


Plot 76: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.20
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	LTE Band 7 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2560
Relative permittivity (real part)	38.5
Conductivity (S/m)	1.92
Variation (%)	-0.89

Maximum location: X=-16.00, Y=8.00 SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.079764
SAR 1g (W/Kg)	0.106168







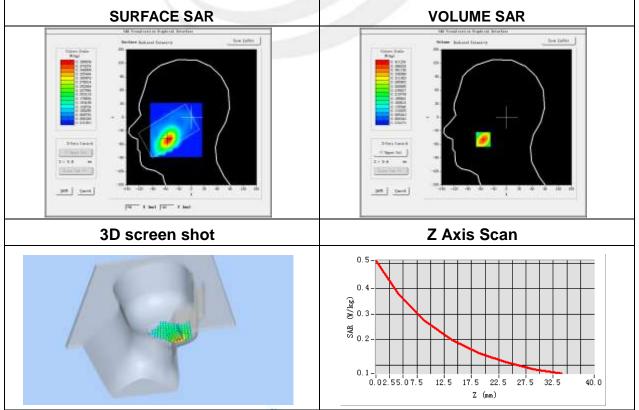
Plot 77: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.20
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 7 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2560
Relative permittivity (real part)	38.5
Conductivity (S/m)	1.92
Variation (%)	1.06

Maximum location: X=-49.00, Y=-47.00

SAR Peak: 0.53 W/kg

SAR 10g (W/Kg)	0.191834
SAR 1g (W/Kg)	0.331812





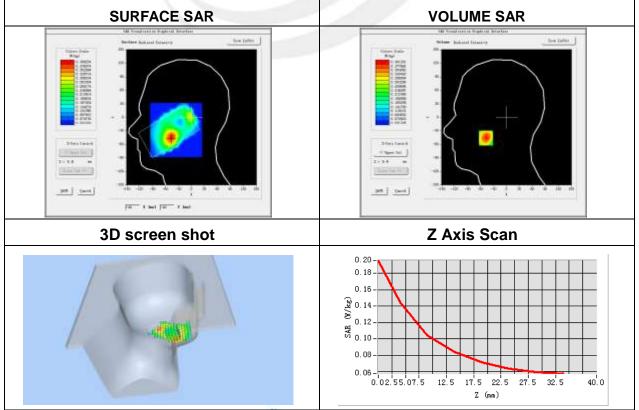
Plot 78: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.20
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	LTE Band 7 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2560
Relative permittivity (real part)	38.5
Conductivity (S/m)	1.92
Variation (%)	-4.03

Maximum location: X=-40.00, Y=-40.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.098184
SAR 1g (W/Kg)	0.139227



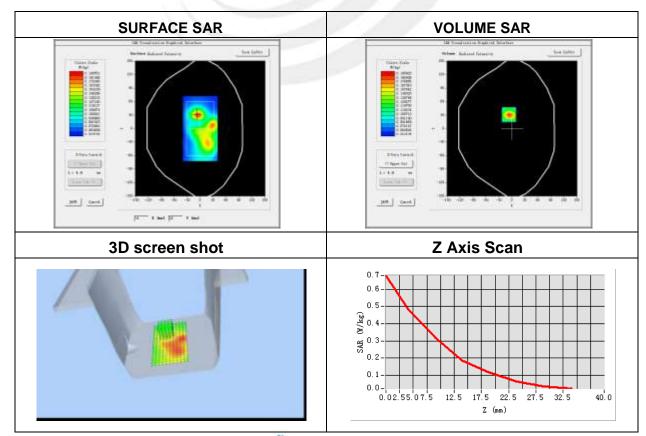


Plot 79: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.32
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	LTE Band 7 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2560
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	-1.54

Maximum location: X=-7.00, Y=31.00 SAR Peak: 0.79 W/kg

57 ii t i 55iii 517 5 177 kg	
SAR 10g (W/Kg)	0.413540
SAR 1g (W/Kg)	0.586351





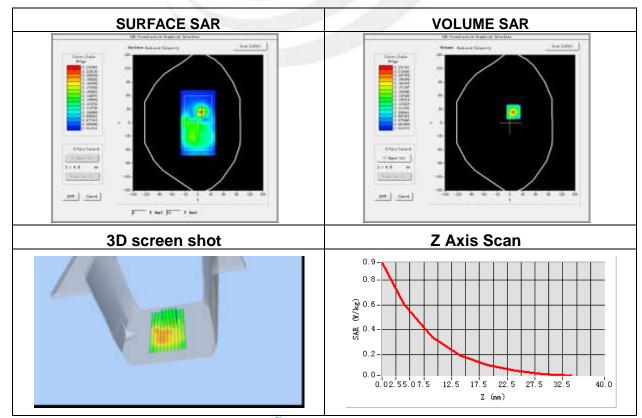
Plot 80: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.32
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 7 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2560
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	-2.17

Maximum location: X=8.00, Y=24.00

SAR Peak: 0.90 W/kg

SAR 10g (W/Kg)	0.420133
SAR 1g (W/Kg)	0.613856





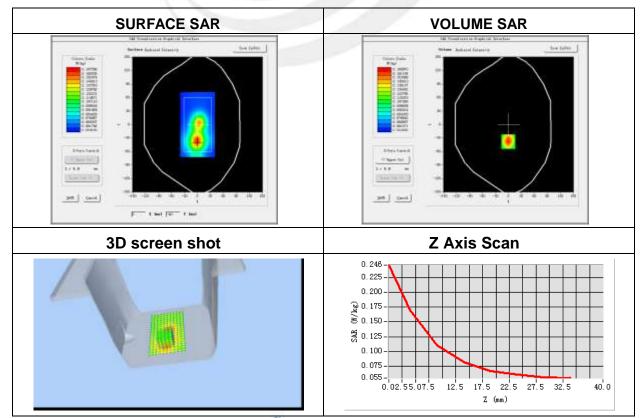
Plot 81: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.32
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	LTE Band 7 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2560
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	0.43

Maximum location: X=-1.00, Y=-38.00

SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.108231
SAR 1g (W/Kg)	0.163152





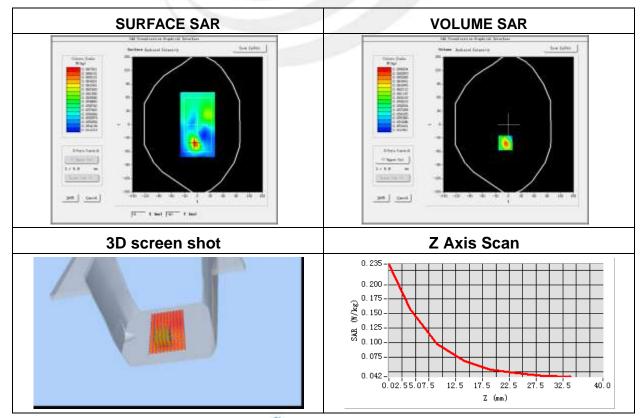
Plot 82: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.32
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	LTE Band 7 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2560
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	1.06

Maximum location: X=-7.00, Y=-41.00

SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.085581
SAR 1g (W/Kg)	0.166077



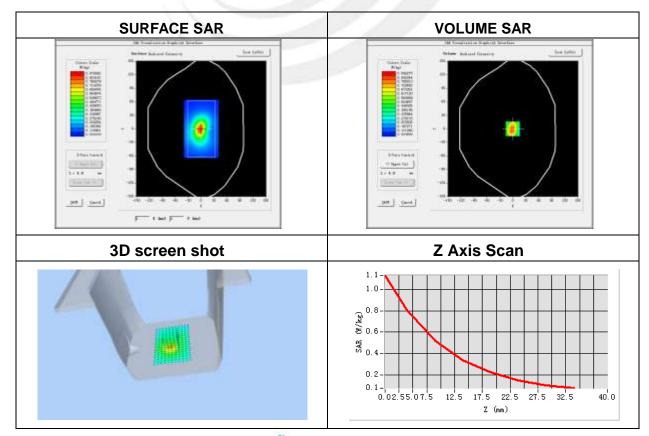


Plot 83: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.32
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body bottom side
Band	LTE Band 7 (RB 1)
Channels	High
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2560
Relative permittivity (real part)	52.3
Conductivity (S/m)	2.12
Variation (%)	-0.19

Maximum location: X=5.00, Y=8.00 SAR Peak: 1.15 W/kg

SAR 10g (W/Kg)	0.556632
SAR 1g (W/Kg)	0.729903







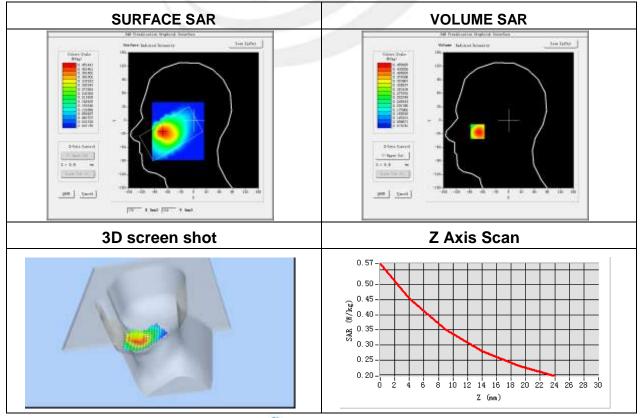
Plot 84: DUT: LTE smart phone; EUT Model: V.40R

	_
Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.53
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 17 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	710
Relative permittivity (real part)	41.2
Conductivity (S/m)	0.91
Variation (%)	-3.44

Maximum location: X=-72.00, Y=-25.00

SAR Peak: 0.58 W/kg

	3
SAR 10g (W/Kg)	0.330551
SAR 1a (W/Ka)	0.449545



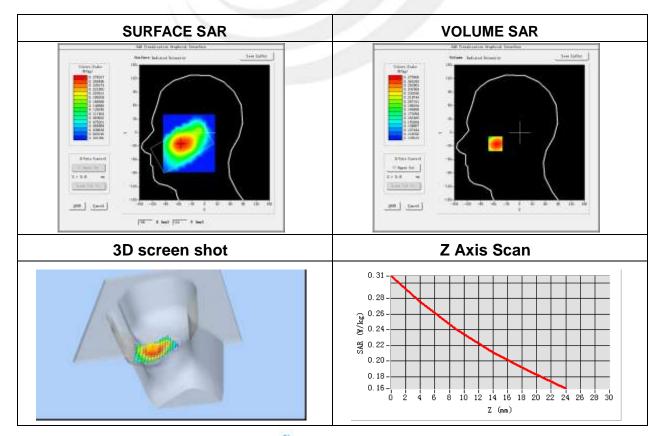


Plot 85: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.53
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Tilt
Band	LTE Band 17 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	710
Relative permittivity (real part)	41.2
Conductivity (S/m)	0.91
Variation (%)	-1.38

Maximum location: X=-56.00, Y=-25.00 SAR Peak: 0.31 W/kg

SAR 10g (W/Kg)	0.227683
SAR 1g (W/Kg)	0.274917





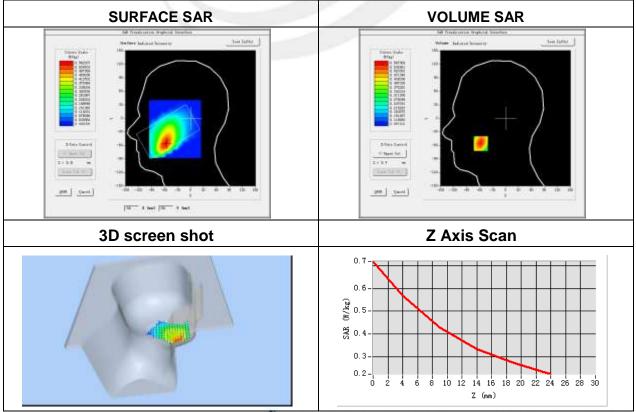
Plot 86: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.53
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 17 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	710
Relative permittivity (real part)	41.2
Conductivity (S/m)	0.91
Variation (%)	1.97

Maximum location: X=-57.00, Y=-56.00

SAR Peak: 0.72 W/kg

SAR 10g (W/Kg)	0.398227
SAR 1g (W/Kg)	0.554301







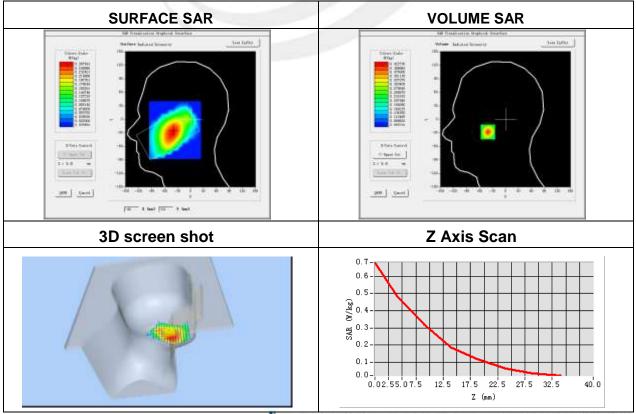
Plot 87: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.53
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Tilt
Band	LTE Band 17 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	710
Relative permittivity (real part)	41.2
Conductivity (S/m)	0.91
Variation (%)	-0.73

Maximum location: X=-41.00, Y=-28.00

SAR Peak: 0.69 W/kg

SAR 10g (W/Kg)	0.247175
SAR 1g (W/Kg)	0.405652





Plot 88: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.70
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body front
Band	LTE Band 17 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	710
Relative permittivity (real part)	55.26
Conductivity (S/m)	0.91
Variation (%)	4.72

Maximum location: X=16.00, Y=-7.00

SAR Peak: 0.67 W/kg

SAR 10g (W/Kg)	0.378818
SAR 1g (W/Kg)	0.524460







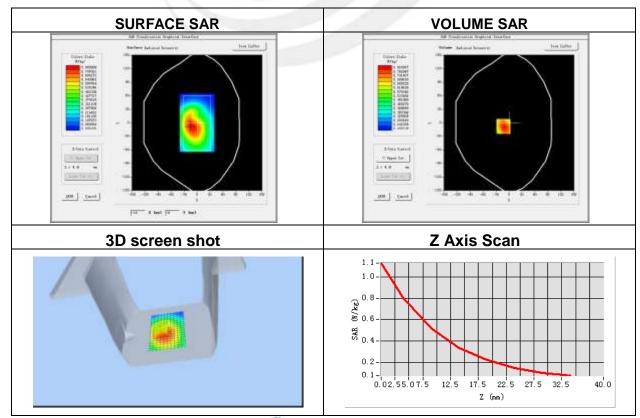
Plot 89: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.70
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	LTE Band 17 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	710
Relative permittivity (real part)	55.26
Conductivity (S/m)	0.91
Variation (%)	1.25

Maximum location: X=0.00, Y=-64.00

SAR Peak: 1.08 W/kg

0.40 (\\\\\\\\)	0.040004
SAR 10g (W/Kg)	0.249234
SAR 1g (W/Kg)	0.619150



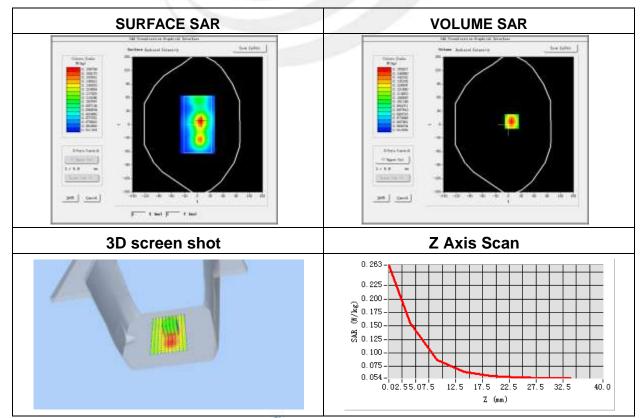


Plot 90: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.70
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body left side
Band	LTE Band 17 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	710
Relative permittivity (real part)	55.26
Conductivity (S/m)	0.91
Variation (%)	-0.37

Maximum location: X=7.00, Y=7.00 SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.096902
SAR 1g (W/Kg)	0.154659





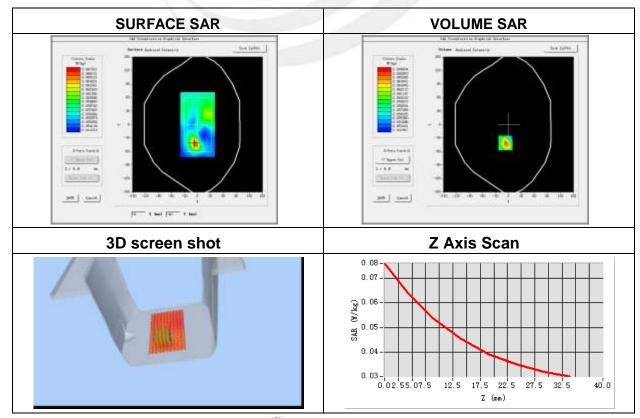
Plot 91: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.70
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,
	Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body right side
Band	LTE Band 17 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	710
Relative permittivity (real part)	55.26
Conductivity (S/m)	0.91
Variation (%)	-2.99

Maximum location: X=5.00, Y=-31.00

SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.051931
SAR 1g (W/Kg)	0.064220





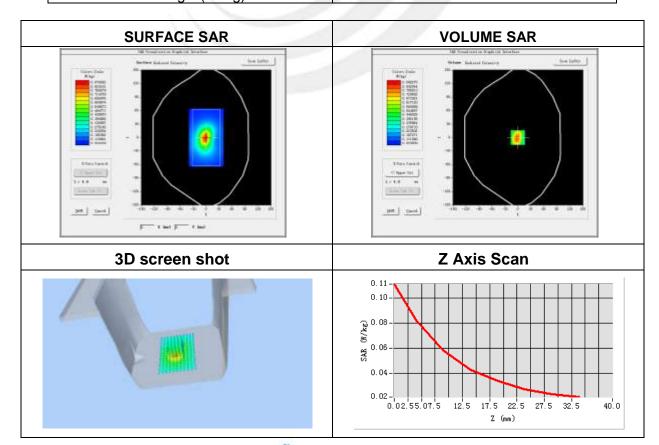


Plot 92: DUT: LTE smart phone; EUT Model: V.40R

Test Data	2016-01-15
Ambient Temperature(°C)	22.70
Liquid Temperature(°C)	22.30
Probe	SN 17/14 EP221
ConvF	4.70
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body bottom side
Band	LTE Band 17 (RB 1)
Channels	Middle
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	710
Relative permittivity (real part)	55.26
Conductivity (S/m)	0.91
Variation (%)	-2.76

Maximum location: X=7.00, Y=-15.00 SAR Peak: 0.11 W/kg

SAR 10g (W/Kg) 0.056504 SAR 1g (W/Kg) 0.074551







Appendix C. Probe Calibration And Dipole Calibration Report Refer the appendix Calibration Report.

