		TES	ST	REPORT	
Report No.:	SHE20090007-02SE		Date:	2021-04-09	Page 1 of 161
Applicant Address of	Applicant	:	6836 E	Technologies, Inc. Bee Cave Road, Buildir 78746, USA	ng 1, Suite 279, Austin,
Product Na Model No. Sample No.	-	: :	RS60 E2009	d Smart Phone 0007-01#09 0007-01#10	
Standards		:	IEEE S ANSI (7 CFR § 2.1093 Std1528-2013 C95.1-2005 02 Issue 5 March 2019	5
Date of Rec Date of Tes	-	:	2021-0 2021-0)1-18)1-18 ~ 2021-02-16	

Remark:

Date of Issue

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

2021-04-09

2

Prepared by: (Oliver Xiang)
Reviewed by: (Oliver Xiang)
Reviewed by: (Jennifer Zhou)
Approved by: (Authorized signatory: Guoyou Chi)

Report No.: SHE20090007-02SE Date:

2021-04-09

Page 2 of 161

Contents

1	GENERAL INFORMATION	4
1.1	TESTING LABORATORY	4
1.2	DETAILS OF APPLICATION	4
1.3	DETAILS OF EUT	4
1.4	IDENTIFICATION OF AUXILIARY EQUIPMENT	5
1.5	THE HIGHEST REPORTED SAR VALUES	6
1.6	TEST METHODOLOGY	6
1.7	SAR LIMITS	6
2	TEST ENVIRONMENT	8
2.1	ENVIRONMENTAL CONDITIONS	8
2.2	EQUIPMENT LIST	8
2.3	MEASUREMENT UNCERTAINTY	9
3	SAR MEASUREMENT SYSTEM	11
3.1	DASY6 MEASUREMENT SERVER	12
3.2	DATA ACQUISITION ELECTRONICS	
3.3	EX3DV4 E-FIELD PROBE	
3.4	SAM PHANTOM	
3.5	DEVICE HOLDER FOR SAM TWIN PHANTOM	14
4	SAR MEASUREMENT PROCEDURES	15
4 4.1	SAR MEASUREMENT PROCEDURES	
•		15
4.1	Power Reference Measurement	15 15
4.1 4.2	Power Reference Measurement Area Scan Procedures	15 15 15
4.1 4.2 4.3	Power Reference Measurement Area Scan Procedures Zoom Scan Procedures	15 15 15 16
4.1 4.2 4.3 4.4	Power Reference Measurement Area Scan Procedures Zoom Scan Procedures Power drift measurement Position of the wireless device in relation to the phantom Definition for Touch and Tilt	15 15 15 16 16 17
4.1 4.2 4.3 4.4 4.5	POWER REFERENCE MEASUREMENT	15 15 15 16 16 17
4.1 4.2 4.3 4.4 4.5 4.6	Power Reference Measurement Area Scan Procedures Zoom Scan Procedures Power drift measurement Position of the wireless device in relation to the phantom Definition for Touch and Tilt	15 15 15 16 16 17 19
4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9	Power Reference Measurement	15 15 16 16 17 19 19 19
4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9	Power Reference Measurement Area Scan Procedures Zoom Scan Procedures Power drift measurement Position of the wireless device in relation to the phantom Definition for Touch and Tilt Definition for Touch and Tilt Definition for Body-Worn Accessory Configurations Definition for Wireless Router Configurations.	15 15 16 16 17 19 19 19
4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9	Power Reference Measurement	15 15 16 16 16 17 19 19 19 21
4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 4.10	Power Reference Measurement	15 15 16 16 16 17 19 19 19 21 23
4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 4.10 5	Power Reference Measurement	15 15 16 16 16 17 19 19 19 21 23
4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 4.10 5 5.1	Power Reference Measurement	15 15 16 16 16 17 19 19 19 21 23 23
4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 4.10 5 5.1 5.2 5.3	Power Reference Measurement	15 15 16 16 16 17 19 19 19 21 23 23 23
4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 4.10 5 5.1 5.2 5.3 5.4 5.5	Power Reference Measurement AREA SCAN PROCEDURES. ZOOM SCAN PROCEDURES. POWER DRIFT MEASUREMENT. POSITION OF THE WIRELESS DEVICE IN RELATION TO THE PHANTOM. DEFINITION FOR TOUCH AND TILT. DEFINITION FOR TOUCH AND TILT. DEFINITION FOR BODY-WORN ACCESSORY CONFIGURATIONS. DEFINITION FOR WIRELESS ROUTER CONFIGURATIONS. DEFINITION FOR WIRELESS ROUTER CONFIGURATIONS. DIELECTRIC PROPERTY MEASUREMENTS. SAR SYSTEM VERIFICATION. SAR MEASUREMENT PROCEDURE. CONDUCTED POWER MEASUREMENT . GSM TEST CONFIGURATION UMTS TEST CONFIGURATION.	15 15 16 16 16 17 19 19 19 21 23 23 23 23 23 26 27

Rep	oort No.:	SHE20090007-02SE	Date:	2021-04-09	Page 3 of 161
5.7					
5.8	MEASURE	D AND REPORTED SAR			
6	TEST RE	SULTS			
6.1	CONDUCT	ED POWER RESULTS			
6.2	TRANSMIT	ANTENNAS CONDITIONS	•••••		
6.3	SAR TEST	EXCLUSION CONSIDERATION	TABLE		
6.4	SAR MEA	SUREMENT RESULTS			
6.5	SAR MEA	SUREMENT VARIABILITY			74
6.6	STANDALC	ONE SAR TEST EXCLUSION CO	NSIDERATIONS	AND ESTIMATED SAR	
6.7	SIMULTAN	EOUS TRANSMISSION SAR CO	NSIDERATIONS		
7	APPEND	IXES	••••••		
7.1	LIQUID DEI	PTH			
7.2	SAMPLE A	ND SET-UP PHOTOS			
7.3	SYSTEM V	ERIFICATION PLOTS			
7.4	HIGHEST S	SAR TEST PLOTS			

Report No.: SHE20090007-02SE Date: 2021-04-09

Page 4 of 161

1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Service (Shanghai) Co., Ltd.	
Address	No.1298 Pingan Rd, Minhang District, Shanghai, China	
Telephone	0086 21-51682999	
Fax	0086 21-54711112	
Homepage	www.icasiso.com	

1.2 Details of Application

Company Name Sonim Technologies, Inc.	
ddress 6836 Bee Cave Road, Building 1, Suite 279, Austin, Texas 78746, US	
Contact Person	Avena.Xu
Telephone	1-650-378-8100
Email	avena.xu@sonimtech.com

1.3 Details of EUT

Product Name	Rugged Smart Phone	
Brand Name	Sonim	
Model No.	RS60	
FCC ID	WYPRS60	
ISED	8090A-RS60	
Serial Number	015850000001942 015850000002015	
HW Version	V1.0	
SW Version	60.0.0-01-10.0.0-00.01.01	
	GSM/GPRS/EDGE 850/1900;	
	WCDMA/HSDPA/HSUPA Band II/IV/V;	
	LTE FDD Band 2/4/5/7/12/13/14/25/26/66;	
Mode of Operation	LTE TDD Band 38/41;	
	WLAN 802.11b/g/n(HT20) for 2.4GHz;	
	WLAN 802.11a/n(HT20/HT40)/ac(VHT20/VHT40/VHT80) for 5.2GHz and	
	5.8GHz;	
	Bluetooth 4.2 dual mode	
	8.3 for GPRS/EDGE 1Tx Slot, 4.15 for GPRS/EDGE 2Tx Slot, 2.77 for	
Duty Cycle	GPRS/EDGE 3Tx Slot, 2.075 for GPRS/EDGE4Tx Slot; 1 for	
	WCDMA/CDMA/LTE FDD/WLAN/Bluetooth; 0.633 for LTE TDD	
Modulation Type	GMSK for GSM/GPRS and 8PSK for EGPRS; QPSK for	
	WCDMA/CDMA;QPSK/16QAM for LTE; DSSS/OFDM for WLAN 2.4GHz	

Report No.: SHE20090007-02SE Date: 2021-04-09

Page 5 of 161

	and OFDM for WLAN 5.2GHz/5.8GHz;GFSK/8DPSK/II/4DQPSK for	
	Bluetooth	
Antenna Type	Internal Antenna	
Antenna Gain	GSM/GPRS/EDGE 850: 1.45 dBi	
	GSM/GPRS/EDGE 1900: 2.76 dBi	
	WCDMA/HSDPA/HSUPA Band II: 2.76 dBi	
	WCDMA/HSDPA/HSUPA Band IV: 2.51 dBi	
	WCDMA/HSDPA/HSUPA Band V: 1.45 dBi	
	LTE FDD Band 2: 2.76 dBi	
	LTE FDD Band 4: 2.51 dBi	
	LTE FDD Band 5: 1.45 dBi	
	LTE FDD Band 7: 3.87 dBi	
	LTE FDD Band 12: -0.02 dBi	
	LTE FDD Band 13: 1.05 dBi	
	LTE FDD Band 25: 2.76 dBi	
	LTE FDD Band 66: 2.51 dBi	
	LTE FDD Band 38: 3.87 dBi	
	LTE FDD Band 41: 3.87 dBi	
	BT/WLAN 2.4G:3.23dBi	
	WLAN5G:3.29dBi	
Power Supply	DC 3.8V by Lithium ion polymer battery	
Device Category	Portable Device	
Exposure Category	General Population/Uncontrolled Exposure	
EUT Type	Production Unit	
Power Reduction	Supported	

1.4 Identification of Auxiliary Equipment

AEID	Description	Model	Manufacturer	Туре
AE1	Battery (made by SJY Energy)	BA7800S	Shen Zhen Sai Jlao Yang Energy & Science Technology Co., Ltd.	8000mAh

1.5 Special Accessories and Auxiliary Equipment

Description	Model	Manufacturer	Туре
Earphone	N/A	MC3	N/A

Report No.: SHE20090007-02SE Date: 2021-04-09

Page 6 of 161

1.6 The Highest Reported SAR Values

Band	Reported 1g SAR (W/Kg)			
	Head	Body-Worn	Hotspot	
PCE	0.365	1.385	1.385	
DTS	0.196	0.119	0.119	
NII	0.051	0.044	0.044	
Bluetooth	0.136	0.035	0.035	
Simultaneous Head SAR		0.561		
Simultaneous Body SAR		1.504		

1.7 Test Methodology

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE Std 1528-2013, the following FCC Published RF exposure KDB procedures, and TCB workshop updates:

\square	KDB 248227 D01 802.11 WLAN SAR v02r02
	KDB 447498 D01 General RF Exposure Guidance v06
	KDB 447498 D02 SAR Procedures for Dongle Xmtr v02r01
	KDB 615223 D01 802.16e WiMax SAR Guidance v01r01
	KDB 616217 D04 SAR for laptop and tablets v01r02
	KDB 643646 D01 SAR Test for PTT Radios v01r03
	KDB 648474 D03 Wireless Chargers Battery Cover v01r04
\square	KDB 648474 D04, Handset SAR v01r03
	KDB 680106 D01 RF Exposure Wireless Charging Apps v02
\square	KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
\square	KDB 941225 D01 3G SAR Procedures v03r01
\square	KDB 941225 D05 SAR for LTE Devices v02r05
\square	KDB 941225 D06 Hot Spot SAR v02r01
	KDB 941225 D07 UMPC Mini Tablet v01r02
	KDB 941225 D07 UMPC Mini Tablet v01r02

Note(s):

All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test.

1.8 SAR Limits

The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate ("SAR") in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1-1992,

Report No.:

SHE20090007-02SE

Date:

2021-04-09

Page 7 of 161

Copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in §1.1310 of this chapter. Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

- The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak 1) spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits.
- 2) The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

	FCC 1g SAR Limit (W/Kg)		
Exposure Limits	General Population/Uncontrolled Exposure	Occupational/Controlled Exposure	
Spatial Average (averaged over the whole body)	0.08	0.4	
Spatial Peak (averaged over any 1g of tissue)	1.6	8.0	
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0	

Report No.: SHE20090007-02SE Date: 2021-04-09

Page 8 of 161

2 Test Environment

2.1 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060
Ambient noise & Reflection (W/kg)	< 0.012

2.2 Equipment List

Dielectric Property Measurements

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Network Analyzer	Anritsu	MS46121A	1618412	2021-08-18
Material Measurement Probe System	Poseidon	MMP	/	N/A

System Check

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Signal Generator	Agilent	SMB 100	114400	2021-06-08
Power Meter	Agilent	NRP2	106036	2021-06-08
Power Sensor	Agilent	NRP8S	103592	2021-06-08
Amplifier	Mini-Circuits	ZVE-8G+	S0N560400742	2021-07-16
Amplifier	Mini-Circuits	ZHL-42+	SN784901545	2021-07-16
DC Power Supply	ACPOWER	ADC-0800025-15	D215010003	2021-03-19
E-Field Probe	SPEAG	EX3DV4	7475	2021-10-28
Data Acquisition Electronics	SPEAG	DAE4	787	2021-09-29
Dipole	SPEAG	D2450V2	723	2023-02-16
Dipole	SPEAG	D2600V2	1142	2023-02-16
Dipole	SPEAG	D5GHzV2	1061	2023-02-16
Dipole	SPEAG	D1900V2	5d092	2023-02-17
Dipole	SPEAG	D2100V2	1053	2023-02-17
Dipole	SPEAG	D2300V2	1040	2023-02-17
Dipole	SPEAG	D900V2	1d055	2023-02-18
Dipole	SPEAG	D1800V2	2d148	2023-02-18
Dipole	SPEAG	D750V3	1055	2023-02-19

2021-04-09

Page 9 of 161

Date:

Dipole	SPEAG	D835V2	4d061	2023-02-19
Other				
Name of Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Base Station Simulator	R & S	CMW500	150835	2021-08-18
Base Station Simulator	R & S	CMW500	116333	2021-08-24
Robot	SPEAG	TX90 XL	F07/564YA1/A/01	N/A
Phantom	SPEAG	SAM	TP-1641	N/A
Phantom	SPEAG	SAM	TP-1642	N/A

2.3 Measurement Uncertainty

Report No.: SHE20090007-02SE

Source of	Tol.	Prob.	Div.	Ci	Ci	1 g u _i	10 g u _i	v _i
Uncertainty	(±%)	Dist.		(1 g)	(10 g)	(±%)	(±%)	•
Measurement System			-					
Probe Calibration (k=1)	4.7	Ν	1	1	1	4.7	4.7	∞
Axial isotropy	1.2	R	√3	1	1	0.69	0.69	8
Hemispherical isotropy	3.2	R	√3	1	1	1.85	1.85	∞
Boundary Effect	7.4	R	√3	1	1	4.27	4.27	8
Linearity	0.9	R	√3	1	1	0.52	0.52	8
System Detection Limit	1	R	√3	1	1	0.6	0.6	8
Readout Electronics	0.3	N	1	1	1	0.3	0.3	∞
Response Time	0	R	√3	1	1	0	0	8
Integration Time	0	R	√3	1	1	0	0	8
RF Ambient Condition - Noise	1	R	√3	1	1	0.6	0.6	8
RF Ambient Condition - Reflections	1	R	√3	1	1	0.6	0.6	∞
Probe Positioner Mechanical Tolerance	0.8	R	√3	1	1	0.5	0.5	∞
Probe Positioning with respect to Phantom Shell	9.9	R	√3	1	1	5.7	5.7	∞
Extrapolation, Interpolation, and Integration Algorithms for Max. SAR Evaluation	4	R	√3	1	1	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	2.9	Ν	1	1	1	2.9	2.9	8
Device Holder Uncertainty	3.5	Ν	1	1	1	3.5	3.5	8
Drift of Output Power	5	R	√3	1	1	2.9	2.9	∞

Report No.: SHE20090007-02SE

Date:

Page 10 of 161

SAR scaling	2.18	R	√3	1	1	1.26	1.26	∞
Phantom and Setup								
Phantom Uncertainty (shape & thickness tolerance)	4	R	√3	1	1	2.3	2.3	∞
Uncertainty in SAR correction fordeviations in permittivity andconductivity	1.2	N	1	1	0.84	1.2	1.01	∞
Liquid Conductivity (target)	5	R	√3	0.64	0.43	1.85	1.24	8
Liquid Conductivity (meas.)	2.93	N	1	0.64	0.43	1.88	1.26	9
Liquid Permittivity (target)	5	R	√3	0.6	0.49	1.73	1.41	∞
Liquid Permittivity (meas.)	5.9	N	1	0.6	0.49	3.54	2.89	9
Combined Uncertainty		RSS		$u_e = \sqrt{\sum_{i=1}^{n} c_i^2 \cdot s_i^2}$		11.37	11.12	
Combined Uncertainty (coverage factor=2)		k=2		$u_e = 2u_c$		22.73	22.24	

2021-04-09

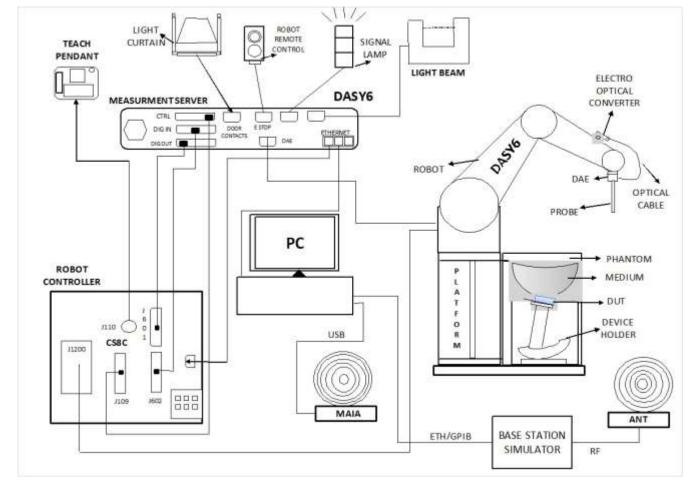
Report No.: SHE20090007-02SE Date:

2021-04-09

Page 11 of 161

3 SAR Measurement System

The DASY6 system for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 professional operating system and the DASY6 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 12 of 161

3.1 DASY6 Measurement Server

The DASY6 measurement server is based on a PC/104 CPU board with a 400MHz intel ULV Celeron, 128MB chip-disk and 128MB RAM. The necessary circuits for communication with the DAE4 electronics box, as well as the 16 bit AD converter system for optical detection and digital I/O inter face are contained on the DASY6 I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port which is reserved for future applications. Please note that this expansion port does not have a standardized pinout, and therefore only devices provided by SPEAG

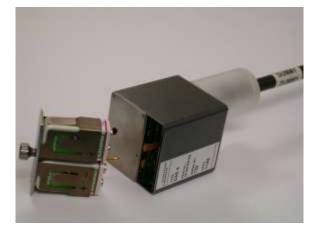


can be connected. Devices from any other supplier could seriously damage the measurement server.

3.2 Data Acquisition Electronics

The data acquisition electronics (DAE4) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock. The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of both the DAE4 as well as of the DAE3



box is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

3.3 EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core
	Built-in shielding against static charges
	PEEK enclosure material (resistant to
	organic solvents, e.g., DGBE)
Frequency	10 MHz to > 6 GHz
	Linearity: ± 0.2 dB
	(30 MHz to 6 GHz)



Directivity ± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis) $10 \ \mu W/g$ to > 100 mW/g **Dynamic Range** Linearity: ± 0.2 dB (noise: typically < 1 μ W/g) Dimensions Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm Application High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

SHE20090007-02SE

SAM Phantom 3.4

Report No.:

The SAM-Twin phantom (shown in front of DASY6) is a fiberglass shell phantom with shell thickness 2 mm, except in the ear region where the thickness is increased to 6 mm. The phantom has three measurement areas:

- Left hand •
- Right hand •
- Flat phantom •

The phantom table for the DASY systems based on the TX90XL and RX160L robots have the size of 100 x 50 x 85 cm (L x W x H). These tables are reinforced for mounting of the robot onto the table. For easy dislocation these tables have fork lift cut outs at the bottom. The bottom plate contains three pairs of bolts for locking the device holder. The

device holder positions are adjusted to the standard measurement positions in the three sections. Only one device holder is necessary if two phantoms are used (e.g., for different liquids)

A white cover is provided to cover the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. Free space scans of devices on top of this phantom cover are possible.

Three reference marks are provided on the phantom counter. These reference marks are used to teach the absolute phantom position relative to the robot.

Page 13 of 161

2021-04-09

Date:

Date:

Report No.: SHE20090007-02SE

2021-04-09

Page 14 of 161

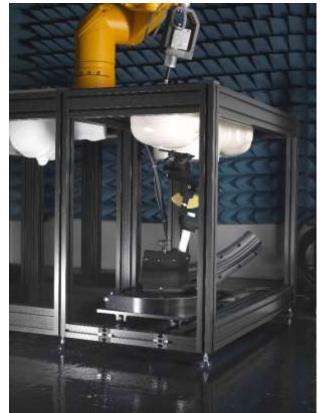
3.5 Device Holder for SAM Twin Phantom

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 5mm distance, a positioning uncertainty of ± 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.

The DASY device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.

The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity =3 and loss tangent =0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered



Report No.: SHE20090007-02SE Date:

2021-04-09

Page 15 of 161

4 SAR Measurement Procedures

4.1 **Power Reference Measurement**

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The Minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 2 mm / 4 mm. This distance cannot be smaller than the Distance of sensor calibration points to probe tip as defined in the probe properties.

4.2 Area Scan Procedures

The Area Scan is used as a fast scan in two dimensions to find the area of high field values before running a detailed measurement around the hot spot.Before starting the area scan a grid spacing of 15 mm x 15 mm is set. During the scan the distance of the probe to the phantom remains unchanged. After finishing area scan, the field maxima within a range of 2 dB will be ascertained.

	≤3 GHz	> 3 GHz		
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 mm ± 1 mm	$\frac{1}{2} \cdot \hat{\partial} \cdot \ln(2) \text{ mm} \pm 0.5 \text{ mm}$		
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°		
	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm		
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.			

4.3 Zoom Scan Procedures

Zoom Scans are used to estimate the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The default Zoom Scan is done by 7x7x7 points within a cube whose base is centered around the maxima found in the preceding area scan.

Report No.:

SHE20090007-02SE

Date: 20

2021-04-09

Page 16 of 161

Maximum zoom scan spatial resolution: Δxzoom, Δyzoom			$\leq 2 \text{ GHz}$: $\leq 8 \text{ mm}$ 2 - 3 GHz: $\leq 5 \text{ mm}^+$	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
uniform		grid: Δz _{žover} (n)	≤ 5 mm	$\begin{array}{l} 3-4 \; \mathrm{GHz} \leq 4 \; \mathrm{mm} \\ 4-5 \; \mathrm{GHz} \leq 3 \; \mathrm{mm} \\ 5-6 \; \mathrm{GHz} \leq 2 \; \mathrm{mm} \end{array}$	
Maximum zoom scan spatial resolution, normal to phantom surface grid		$\Delta z_{Zaont}(1)$: between 1 ^{eff} two points closest to phantom surface	$\leq 4 \text{ mm}$	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
	grid		$\leq 1.5 \cdot \Delta z_{25000}(n-1) mm$		
Minimum zoom scan volume	x, y, z		\geq 30 mm	3 - 4 GHz: ≥ 28 mm 4 - 5 GHz: ≥ 25 mm 5 - 6 GHz: ≥ 22 mm	
1528-2013 for d When zoom scan is KDB Publication 44	etails. required a 17498 is ≤	and the <u>reported</u> SAR from	incidence to the tissue med in the area scan based 1-g S m and ≤ 5 mm zoom scan re- 4 GHz to 6 GHz	AR estimation procedures	

4.4 Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Power Reference Measurement.

4.5 Position of the wireless device in relation to the phantom

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The test device was placed in a normal operating position with the "test device reference point" located along the "vertical centerline" on the front of the device aligned to the "ear reference point" (see Figure 1). The "test device reference point" was than located at the same level as the center of the ear reference point. The test device was positioned so that the "vertical centerline" was bisecting the front surface of the handset at it's top and bottom edges, positioning the "ear reference point" on the outer surface of the both the left and right head phantoms on the ear reference point.

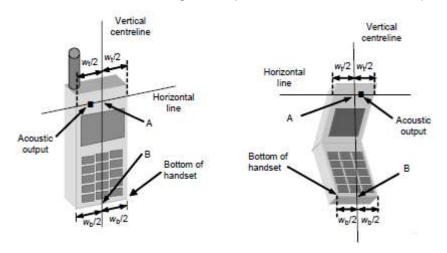


Figure 1 Handset Vertical Center & Horizontal Line Reference Points

2021-04-09

Page 17 of 161

4.6 Definition for Touch and Tilt

The cheek position is established in points a) to i) as follows.

- a) Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the device can also be used with the cover closed, both configurations shall be tested.
- b) Define two imaginary lines on the handset, the vertical centreline and the horizontal line, for the handset in vertical orientation as shown in Figures 1. The verticalcentreline 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 (point A in Figures 1), and the midpoint of the width wb of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centreline and passes through the centre of the acoustic output (see Figures 1). The two lines intersect at point A. Note that for many handsets, point A coincides with the centre of the acoustic output. However, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centreline is not necessarily parallel to the front face of the handset (see Figure 1), especially for clam-shell handsets, handsets with flip cover pieces, and other irregularly shaped handsets.
- c) Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 2). The plane defined by the vertical centreline and the horizontal line of the device must be parallel to the sagittal plane of the phantom.
- d) Translate the handset towards the phantom along the line passing through RE and LE until the handset touches the ear.
- e) Rotate the handset around the (virtual) LE-RE Line until the DUT vertical centreline is in the reference plane.
- f) Rotate the device around its vertical centreline until the plane defined by the DUT vertical centreline and horizontal line is parallel to the N-F Line, then translate the handset towards the phantom along the LE-RE line until DUT point A touches the ear at the ERP.
- g) While keeping point A on the line passing through RE and LE and maintaining the handset in contact with the pinna, rotate the handset about the line N-F until any point on the handset is in contact with a phantom point below the pinna (cheek) (see Figure 2). The physical angles of rotation shall be documented. While keeping DUT point A in contact with the ERP, rotate the handset around a line perpendicular to the plane defined by the DUT vertical centreline and horizontal line and passing through DUT point A, until the DUT vertical centreline is in the reference plane.
- h) Verify that the cheek position is correct as follows:
 - the N-F line is in the plane defined by the DUT vertical centreline and horizontal line,
 - DUT point A touches the pinna at the ERP, and
- the DUT vertical centreline is in the reference plane.

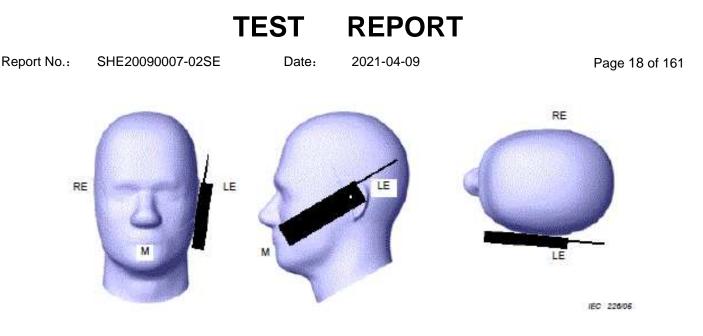


Figure 2 Cheek position of the wireless device on the left side of SAM

The tilt position is established in points a) to d) as follows.

- a) Repeat steps a) to i) of above section to place the device in the cheek position (see Figure 2).
- b) While maintaining the orientation of the device, retract the device parallel to the reference plane far enough away from the phantom to enable a rotation of the device by 15°.
- c) Rotate the device around the horizontal line by 15° (see Figure 3).
- d) While maintaining the orientation of the handset, move the handset towards the phantom on a line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna, e.g., the antenna with the back of the phantom head, the angle of the handset shall be reduced. In this case, the tilt position is obtained if any part of the handset is in contact with the pinna as well as a second part of the handset is in contact with the phantom, e.g., the antenna with the back of the head.



Figure 3 Tilt position of the wireless device on the left side of SAM

Report No.: SHE20090007-02SE Date: 2021-04-09

Page 19 of 161

4.7 Definition for Body-Worn Accessory Configurations

Body-Worn operation configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. A device with a headset output is tested with a headset connected to the device.

Accessories for Body-Worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are supplied with the device, the device is tested with only the accessories share an identical to the body. Then multiple accessory that contains a unique metallic component. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-Worn accessories may not always be supplied of available as options for some devices intended to be authorized for Body-Worn use. In this case, a test configuration where a separation distances between the back of the device and the flat phantom is used. Test position spacing was documented.

4.8 Definition for Wireless Router Configurations

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WLAN simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets (L x W \ge 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the Body-Worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some Body-Worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WLAN transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WLAN transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

4.9 Dielectric Property Measurements

The dielectric properties for this simulant fluid were measured by using the Dielectric Probe in conjunction with Network Analyzer(300 kHz - 6 GHz) by using a procedure detailed in KDB 865664 D01v01r04.

Report No.: SHE20090007-02SE Date:

2021-04-09

Page 20 of 161

Dielectric properties of the tissue-equivalent liquid

Target Frequency	He	ad	Bo	dy
(MHz)	$\varepsilon_{\rm r}$	σ (S/m)	ε _r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 - 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

(ε_r = relative permittivity, σ = conductivity and ρ = 1000 kg/m³)

Dielectric Property Measurements Results

Frequency	Target	t Tissue	Measure	d Tissue	Limit (±	5% Dev.)	Temp	Test Date
Frequency	٤ _r	σ(s/m)	٤ _r	σ(s/m)	٤ _r	σ(s/m)	(°C)	Test Date
704 Head	41.90	0.89	42.849	0.913	2.26%	2.58%	21.5	2021-01-23
711 Head	41.90	0.89	42.845	0.911	2.26%	2.36%	21.5	2021-01-23
750 Head	41.90	0.89	42.838	0.910	2.24%	2.25%	21.5	2021-01-23
782 Head	41.68	0.90	42.747	0.863	2.56%	-3.82%	21.5	2021-01-23
793 Head	41.68	0.90	43.546	0.875	4.47%	-2.48%	21.5	2021-01-23
819 Head	41.56	0.90	42.531	0.882	2.35%	-1.89%	21.5	2021-01-31
824.2 Head	41.56	0.90	42.535	0.883	2.36%	-1.78%	21.5	2021-01-31
826.4 Head	41.54	0.90	42.592	0.911	2.52%	1.33%	21.5	2021-01-31
829 Head	41.53	0.90	42.469	0.916	2.26%	1.89%	21.5	2021-01-31
831.5 Head	41.53	0.90	43.156	0.914	3.91%	1.67%	21.5	2021-01-31
835 Head	41.50	0.90	42.619	0.916	2.70%	1.78%	21.5	2021-01-31
836.5 Head	41.50	0.90	42.213	0.935	1.72%	3.89%	21.5	2021-01-31
836.6 Head	41.50	0.90	42.266	0.933	1.85%	3.67%	21.5	2021-01-31
841.5 Head	41.50	0.91	42.642	0.941	2.75%	3.41%	21.5	2021-01-31
844 Head	41.50	0.91	42.757	0.943	3.03%	3.63%	21.5	2021-01-31
846.6 Head	41.50	0.91	42.794	0.943	3.12%	3.40%	21.5	2021-01-31
848.8 Head	41.50	0.92	42.803	0.937	3.14%	2.40%	21.5	2021-01-31
1712.4 Head	40.14	1.34	41.886	1.405	4.35%	4.69%	21.5	2021-01-28

Report I	No.:
----------	------

SHE20090007-02SE

Date:

2021-04-09

Page 21 of 161

1720 Head	40.13	1.35	41.749	1.413	4.04%	4.36%	21.5	2021-01-28
1732.5 Head	40.11	1.36	41.077	1.387	2.42%	1.91%	21.5	2021-01-28
1732.6 Head	40.11	1.36	41.077	1.387	2.42%	1.91%	21.5	2021-01-28
1745 Head	40.08	1.37	41.167	1.378	2.71%	0.58%	21.5	2021-01-28
1752.6 Head	40.08	1.37	41.072	1.422	2.48%	3.80%	21.5	2021-01-28
1770 Head	40.08	1.37	40.892	1.388	2.03%	1.31%	21.5	2021-01-28
1800 Head	40.00	1.40	41.885	1.387	4.71%	-0.93%	21.5	2021-01-28
1850.2 Head	40.00	1.40	41.377	1.383	3.44%	-1.21%	21.5	2021-01-21
1852.4 Head	40.00	1.40	41.425	1.431	3.56%	2.21%	21.5	2021-01-21
1860 Head	40.00	1.40	41.324	1.432	3.31%	2.29%	21.5	2021-01-21
1880 Head	40.00	1.40	41.252	1.427	3.13%	1.93%	21.5	2021-01-21
1882.5 Head	40.00	1.40	41.542	1.425	3.86%	1.79%	21.5	2021-01-21
1900 Head	40.00	1.40	41.326	1.433	3.32%	2.36%	21.5	2021-01-21
1905 Head	40.00	1.40	40.974	1.443	2.43%	3.07%	21.5	2021-01-21
1907.6 Head	40.00	1.40	40.982	1.452	2.46%	3.71%	21.5	2021-01-21
2412 Head	39.27	1.77	38.757	1.713	-1.30%	-3.06%	21.5	2021-02-03
2441 Head	39.22	1.79	38.895	1.726	-0.82%	-3.36%	21.5	2021-02-03
2450 Head	39.20	1.80	38.906	1.729	-0.75%	-3.94%	21.5	2021-02-03
2510 Head	39.13	1.87	40.714	1.942	4.06%	4.07%	21.5	2021-01-29
2535 Head	39.09	1.89	40.805	1.969	4.38%	4.01%	21.5	2021-01-29
2560 Head	39.09	1.92	40.817	1.958	4.42%	1.98%	21.5	2021-01-29
2600 Head	39.00	1.96	40.573	2.032	4.03%	3.67%	21.5	2021-01-29
2610 Head	39.00	1.96	40.569	2.033	4.00%	3.51%	21.5	2021-01-29
2680 Head	39.00	1.96	40.573	2.032	4.03%	3.67%	21.5	2021-01-29
5200 Head	36.00	4.66	34.555	4.840	-3.99%	3.86%	21.5	2021-02-04
5220 Head	35.99	4.66	35.256	4.509	-2.03%	-3.14%	21.5	2021-02-04
5800 Head	35.30	5.27	34.935	5.149	-1.03%	-2.30%	21.5	2021-02-04
5825 Head	35.27	5.30	34.754	5.151	-1.45%	-2.72%	21.5	2021-02-04

4.10 SAR System Verification

The purpose of the system check is to verify that the system operates within its specifications at the decice test frequency. The system check is simple check of repeatability to make sure that the system works correctly at the time of the compliance test.

A system check measurement was made following the determination of the dielectric parameters of the simulates, using the dipole validation kit. A power level of 250 mW was supplied to the dipole antenna, which was placed under the flat section of the twin SAM phantom.

System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system (±10 %).

System check is performed regularly on all frequency bands where tests are performed with the DASY6 system.

Report No.: SHE20090007-02SE Date:

2021-04-09

Page 22 of 161

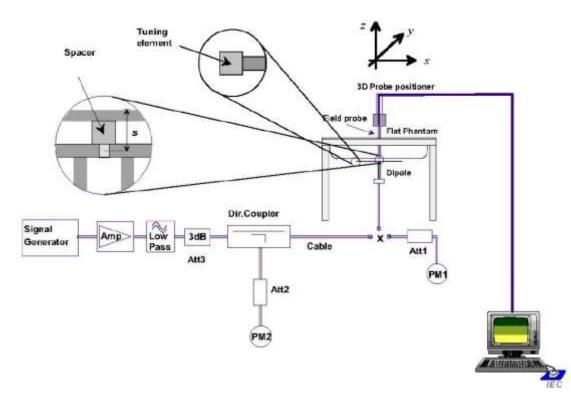


Figure 4 System Check Set-up

1W Target 250mW Measured **1W Normalized** 1g (W/Kg) (W/Kg) (W/Kg) Frequency & Limit Temp Test Date (°C) (±10% **Tissue Type** 1g 10g 1g 10g 1g 10g Dev.) SAR SAR SAR SAR SAR SAR 21.5 750 Head 8.55 5.64 2.16 1.39 8.64 5.56 1.05% 2021-01-23 835 Head 9.47 6.19 2.34 1.49 9.36 5.96 21.5 -1.16% 2021-01-31 4.71 1800 Head 39.30 20.40 9.070 36.28 18.84 21.5 -7.68% 2021-01-28 1900 Head 39.90 20.40 9.800 5.00 39.20 20.00 21.5 -1.75% 2021-01-21 51.90 23.80 5.97 2450 Head 13.000 52.00 23.88 21.5 0.19% 2021-02-03 2600 Head 55.60 24.50 13.90 6.20 55.60 24.80 21.5 0.00% 2021-01-29

System Verification Results

Frequency &	1W Target (W/Kg)		100mW Measured (W/Kg)		1W Normalized (W/Kg)		Temp	1g Limit	Tost Data	
Tissue Type	1g	10g	1g	10g	1g	10g	(°C)	(±10%	Test Date	
	SAR	SAR	SAR	SAR	SAR	SAR		Dev.)		
5200 Head	73.90	20.70	7.530	2.16	75.30	21.60	21.5	1.89%	2021-02-04	
5800 Head	76.90	21.40	8.140	2.29	81.40	22.90	21.5	5.85%	2021-02-04	

Note(s):

1. Target Values used from the calibration certificate by SPEAG and CTTL in collaboration with SPEAG.

Report No.: SHE20090007-02SE Date:

2021-04-09

Page 23 of 161

5 SAR Measurement Procedure

5.1 Conducted Power Measurement

Conducted power measurements were performed using a base station simulator under digital average power. The handset was placed into a simulated call using a base station simulator in shielded chamber. SAR measurements were taken with a fully charged battery. In order to verify that the device was tested and maintained at full power, this was configured with the base station simulator. The SAR measurement Software calculates a reference point at the start and end of the test to check for power drifts. If conducted power deviations of more than 5 % occurred, the tests were repeated.

5.2 GSM Test Configuration

SAR test for GSM band, a communication link is set up with a System Simulator (SS) by air link. The power level is set to "5" for GSM 850, set to "0" for GSM 1900. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslots is 5. The EDGE class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslots is 5. The EDGE class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslots is 5.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. GSM voice and GPRS data use GMSK, which is a constant amplitude modulation with minimal peak to average power difference within the time-slot burst. For EDGE, GMSK is used for MCS 1 – MCS 4 and 8-PSK is used for MCS 5 – MCS 9; where 8-PSK has an inherently higher peak-to-average power ratio. The GMSK and 8-PSK EDGE configurations are considered separately for SAR compliance. The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance. The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.

5.3 UMTS Test Configuration

Output power Verification

Maximum output power is verified on the High, Middle and Low channel according to the procedures described in section 5.2 of 3GPP TS 34. 121, using the appropriate RMC or AMR with TPC(transmit power control) set to all up bits for WCDMA/HSDPA or applying the required inner loop power control procedures to the maximum output power while HSUPA is active. Results for all applicable physical channel configuration (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) should be tabulated in the SAR report. All configuration that are not supported by the DUT or can not be measured due to technical or equipment limitations should be clearly identified

Head SAR

SAR for head exposure configurations in voice mode is measured using a 12.2kbps RMC with TPC bits configured to all up bits. SAR in AMR configurations is not required when the maximum average output of each RF channel for 12.2kbps AMR is less than 1/4 dB higher than that measured in 12.2 kbps RMC. Otherwise, SAR is measured on the maximum output channel in 12.2kbps AMR with a 3.4 kbps SRB(Signaling radio bearer) using the exposure

Date:

Report No.: SHE20090007-02SE

2021-04-09

Page 24 of 161

configuration that results in the highest SAR in 12.2kbps RMC for that RF channel.

Body-Worn Accessory SAR

SAR for body exposure configurations in voice and data modes is measured using 12.2kbps RMC with TPC bits configured to all up bits. SAR for other spreading codes and multiple DPDCHn, when supported by the DUT, are not required when the maximum average output of each RF channel, for each spreading code and DPDCHn configuration, are less than 1/4 dB higher than those measured in 12.2kbps RMC. Otherwise, SAR is measured on the maximum output channel with an applicable RMC configuration for the corresponding spreading code or DPDCHn using the exposure configuration that results in the highest SAR with 12.2 kbps RMC. When more than 2 DPDCHn are supported by the DUT, it may be necessary to configure additional DPDCHn for a DUT using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

HSDPA Test Configuration

SAR for body exposure configurations is measured according to the 'Body SAR Measurements' procedures of that section. In addition, body SAR is also measured for HSDPA when the maximum average output of each RF channel with HSDPA active is at least ¼ dB higher than that measured without HSDPA using 12.2 kbps RMC or the maximum SAR for 12.2 kbps RMC is above 75% of the SAR limit. Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, using the highest body SAR configuration in 12.2 kbps RMC without HSDPA.

HSDPA should be configured according to the UE category of a test device. The number of HSDSCH/ HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors(β c, β d), and HS-DPCCH power offset parameters (Δ ACK, Δ NACK, Δ CQI) should be set according to values indicated in the Table below. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Sub-test	βe	βd	β _d (SF)	β_c/β_d	β _{bs} ^(<i>I</i>)	CM (dB)(2)
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15(3)	15/15 ⁽³⁾	64	12/15(3)	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 2: CM = 1 for β_e/β_d =12/15, β_{bs}/β_e =24/15.

Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

HSUPA Test Configuration

Body SAR is also measured for HSPA when the maximum average output of each RF channel with HSPA active is at least ¼ dB higher than that measured without HSPA using 12.2 kbps RMC or the maximum SAR for 12.2 kbps RMC is above 75% of the SAR limit. Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 with power control algorithm 2, according to the highest body SAR configuration in 12.2 kbps RMC without HSPA.

Due to inner loop power control requirements in HSPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E- DCH configurations for HSPA should be

Report No.:

SHE20090007-02SE

Date:

2021-04-09

Page 25 of 161

configured according to the ß values indicated below as well as other applicable procedures described in the WCDMA Handset' and 'Release 5 HSDPA Data Devices' sections of 3 G device.

Sub- test	βε	β_{d}	β _d (SF)	β_c/β_d	$\beta_{hs}{}^{(l)}$	β _{ec}	β_{ed}	β _{ed} (SF)	β _{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E- TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\begin{array}{c} \beta_{ed1}; \ 47/15 \\ \beta_{ed2}; \ 47/15 \end{array}$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15(4)	15/15(4)	64	15/15(4)	30/15	24/15	134/15	4	(1)	1.0	0.0	21	81
Note 2 Note 3	2: CM = 1 1 DPCCH 3: For subte signaled	for $\beta_c/\beta_d = 1$ the MPR i est 1 the β_c	12/15, β is based /β _d ratio rs for th	$h_{\rm h}/\beta_c=24/1$ on the relation of 11/15 fills in reference	5. For all trive CM for the TI e TFC (T	other com difference FC during to F1, TF1) to	he measurem $\beta_c = 10/15$	ient per and β _d =	iod (TF1, 7 = 15/15.	(F0) is ac	hieved b	y setting	the

signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

Note 6: Bed cannot be set directly; it is set by Absolute Grant Value.

HSPA, HSPA+ and DC-HSDPA Test Configuration

SAR test exclusion for HSPA, HSPA+ and DC-HSDPA is determined according to the following:

- The HSPA procedures are applied to configure 3GPP Rel. 6 HSPA devices in the required sub-test mode(s) to a) determine SAR test exclusion.
- SAR is required for Rel. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction b) procedure is applied to (uplink) HSPA+ with 12.2 kbps RMC as the primary mode.36 Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.
- SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test C) reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.
- Regardless of whether a PAG is required, the following information must be verified and included in the SAR report d) for devices supporting HSPA, HSPA+ or DC-HSDPA:

1) The output power measurement results and applicable release version(s) of 3GPP TS 34.121.

i) Power measurement difficulties due to test equipment setup or availability must be resolved between the grantee and its test lab.

The power measurement results are in agreement with the individual device implementation and specifications. When Enhanced MPR (E-MPR) applies, the normal MPR targets may be modified according to the Cubic Metric (CM) measured by the device, which must be taken into consideration.

3) The UE category, operating parameters, such as the β and Δ values used to configure the device for testing, power setback procedures described in 3GGPP TS 34.121 for the power measurements, and HSPA/HSPA+

Report No.: SHE20090007-02SE Date:

2021-04-09

Page 26 of 161

channel conditions (active and stable) for the entire duration of the measurement according to the required E-TFCI and AG index values.

e) When SAR measurement is required, the test configurations, procedures and power measurement results must be clearly described to confirm that the required test parameters are used, including E-TFCI and AG index stability and output power conditions.

5.4 CDMA Test Configuration

Output power Verification

Maximum output power is verified on the high, middle and low channels according to procedures in section 4.4.5.2 of 3GPP2 C.S0011/TIA-98-E. Results for at least steps 3, 4 and 10 of the power measurement procedures are required in the SAR report. Steps 3 and 4 are measured using Loopback Service Option SO55 with power control bits in "All Up" condition. TDSO/SO32 may be used instead of SO55 for step 4. Step 10 is measured using TDSO/SO32 with power control bits in the "Bits Hold" condition (i.e. alternative Up/Down Bits). All power measurements defined in C.S0011/TIA-98-E that are inapplicable to the handset or cannot be measured due to technical or equipment limitations must be clearly identified in the test report.

Head SAR

SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55. The 3G SAR test reduction procedure is applied to RC1 with RC3 as the primary mode; otherwise, SAR is required for the channel with maximum measured output in RC1 using the head exposure configuration that results in the highest reported SAR in RC3.

Body-Worn Accessory SAR

Body-Worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The Body-Worn accessory procedures in KDB Publication 447498 D01 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCHn), with FCH only as the primary mode. Otherwise, SAR is required for multiple code channel configuration (FCH + SCHn), with FCH at full rate and SCH0 enabled at 9600 bps, using the highest reported SAR configuration for FCH only. When multiple code channels are enabled, the transmitter output can shift by more than 0.5 dB and may lead to higher SAR drifts and SCH dropouts.

The 3G SAR test reduction procedure is applied to Body-Worn accessory SAR in RC1 with RC3 as the primary mode.Otherwise, SAR is required for RC1, with SO55 and full rate, using the highest reported SAR configuration for Body-Worn accessory exposure in RC3.

1x Ev-Do Test Configuration

For handsets with Ev-Do capabilities, the 3G SAR test reduction procedure is applied to Ev-Do Rev. 0 with 1x RTT RC3 as the primary mode to determine Body-Worn accessory test requirements. Otherwise, Body-Worn accessory SAR is required for Rev. 0, at 153.6 kbps, using the highest reported SAR configuration for Body-Worn accessory exposure in RC3.

The 3G SAR test reduction procedure is applied separately to Rev. A and Rev. B, with Rev. 0 as the primary mode to determine Body-Worn accessory SAR test requirements. When SAR is not required for Rev. 0, the 3G SAR test reduction is applied with 1x RTT RC3 as the primary mode. Otherwise, SAR is required for Rev. A or Rev. B, with a

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 27 of 161

Reverse Data Channel payload size of 4096 bits and a Termination Target of 16 slots defined for Subtype 2 and 3 Physical Layer configurations, using the highest reported SAR configuration for Body-Worn accessory exposure in Rev. 0 or RC3, as appropriate.

A Forward Traffic Channel data rate corresponding to the 2-slot version of 307.2 kbps with ACK Channel transmitting in all slots is configured in the downlink for Rev. 0, Rev. A and Rev. B.

5.5 LTE Test Configuration

QPSK with 1 RB allocation

Start with the largest channel bandwidth then measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle, and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR is required for a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

QPSK with 50% RB allocation

The procedures required for 1 RB allocation in above section are applied to measure the SAR for QPSK with 50% RB allocation.

QPSK with 100% RB allocation

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 in above two sections 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.

Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in above sections to determine the channels and RB configurations that need SAR testing, then only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration, or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation, etc., is determined for the smaller channel bandwidth does not apply to 5 MHz channel bandwidth; therefore, this cannot be tested in the smaller channel bandwidth. However, 50% RB allocation in 10 MHz channel bandwidth is equivalent to 100% RB allocation in 5 MHz channel bandwidth; therefore, these are the equivalent configurations to be compared to determine the specific channel and configuration in the smaller channel bandwidth that need SAR testing.

5.6 WLAN Test Configuration

The SAR measurement and test reduction procedures are structured according to either the DSSS or OFDM transmission mode configurations used in each standalone frequency band and aggregated band. For devices that operate in exposure configurations that require multiple test positions, additional SAR test reduction may be applied.

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 28 of 161

The maximum output power specified for production units, including tune-up tolerance, are used to determine initial SAR test requirements for the 802.11 transmission modes in a frequency band. SAR is measured using the highest measured maximum output power channel for the initial test configuration. SAR measurement and test reduction for the remaining 802.11 modes and test channels are determined according to measured or specified maximum output power and reported SAR of the initial measurements. The general test reduction and SAR measurement approaches are summarized in the following:

- 1) The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. Channels with measured maximum output power within ¼ dB are considered to have the same maximum output.
- 2) For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, an "initial test configuration" is first determined for each standalone and aggregated frequency band according to the maximum output power and tune-up tolerance specified for production units.
 - a. When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.
 - b. SAR is measured for OFDM configurations using the initial test configuration procedures. Additional frequency band specific SAR test reduction may be considered for individual frequency bands
 - c. Depending on the reported SAR of the highest maximum output power channel tested in the initial test configuration, SAR test reduction may apply to subsequent highest output channels in the initial test configuration to reduce the number of SAR measurements.
- 3) The Initial test configuration does not apply to DSSS. The 2.4 GHz band SAR test requirements and 802.11b DSSS procedures are used to establish the transmission configurations required for SAR measurement.
- 4) An "initial test position" is applied to further reduce the number of SAR tests for devices operating in next to the ear, UMPC mini-tablet or hotspot mode exposure configurations that require multiple test positions.

a. SAR is measured for 802.11b according to the 2.4 GHz DSSS procedure using the exposure condition established by the initial test position.

b. SAR is measured for 2.4 GHz and 5 GHz OFDM configurations using the initial test configuration. 802.11b/g/n operating modes are tested independently according to the service requirements in each frequency band. 802.11b/g/n modes are tested on the maximum average output channel.

- 5) The Initial test position does not apply to devices that require a fixed exposure test position. SAR is measured in a fixed exposure test position for these devices in 802.11b according to the 2.4 GHz DSSS procedure or in 2.4 GHz and 5 GHz OFDM configurations using the initial test configuration procedures.
- 6) The "subsequent test configuration" procedures are applied to determine if additional SAR measurements are

required for the remaining OFDM transmission modes that have not been tested in the initial test configuration. SAR test exclusion is determined according to reported SAR in the initial test configuration and maximum output power specified or measured for these other OFDM configurations.

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 29 of 161

2.4 GHz and 5GHz SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in section 5.2.2. 1. 802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

a. When the reported SAR of the highest measured maximum output power channel (section 3.1) for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. b. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

2. 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3). SAR is not required for the following 2.4 GHz OFDM conditions.

a. When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration

b. 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 \leq 1.2 W/kg.

3. SAR Test Requirements for OFDM Configurations

When SAR measurement is required for 802.11 a/g/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements.20 In applying the initial test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured distinguished to apply the procedures.

4. OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

The initial test configuration for 2.4 GHz and 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures (section 4) When multiple configurations in a frequency band have the same specified maximum output power, the initial test

When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

a. The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.

b. If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest

Report No.: SHE20090007-02SE

02SE

2021-04-09

Page 30 of 161

order modulation among the largest channel bandwidth configurations is selected.

c. If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.

Date:

d. When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n.

After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.

a. Channels with measured maximum output power within ¼ dB of each other are considered to have the same maximum output.

b. When there are multiple test channels with the same measured maximum output power, the channel closest to mid-band frequency is selected for SAR measurement.

c. When there are multiple test channels with the same measured maximum output power and equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement. Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required (see section 5.3.2). SAR test reduction of subsequent highest output test channels is based on the reported SAR of the initial test configuration. For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test configuration transmission mode.23 For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. 5. Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations.

When the same maximum output power is specified for multiple transmission modes, the procedures in section 5.3.2 are applied to determine the test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

a. When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 31 of 161

configuration.

b. When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is \leq 1.2 W/kg, SAR is not required for that subsequent test configuration.

c. The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction. 1). SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.

2). SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the reported SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested.

a) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.

d. SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:

1) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)

2) replace "initial test configuration" with "all tested higher output power configurations.

5.7 Measurement Variability

Per FCC KDB Publication 865664 D01, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

1) When the original highest measured SAR is \geq 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

Date:

Report No.: SHE20090007-02SE

7-02SE

2021-04-09

Page 32 of 161

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5
W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

5.8 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, When SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as reported SAR. Test highest reported SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

2021-04-09

Page 33 of 161

6 Test Results

6.1 Conducted Power Results

Conducted Power Measurement Results for GPRS/EDGE

		Burst Co	nducted Pow	ver (dBm)		Aver	age Power (o	dBm)	
GSN	A 850	Channel			1	Channel			
			Mid	High		Low	Mid	High	
G	SM	33.72	33.80	33.71	1	<i>I I I</i>		1	
	1 TX slot	30.31	30.34	30.23	-9.03 dB	21.28	21.31	21.20	
GPRS	2 TX slot	30.26	30.29	30.18	-6.02 dB	24.24	24.27	24.16	
GFK3	3 TX slot	30.21	30.25	30.14	-4.26 dB	25.95	25.99	25.88	
	4 TX slot	30.17	30.21	30.10	-3.01 dB	27.16	27.20	27.09	
	1 TX slot	23.49	23.76	23.46	-9.03 dB	14.46	14.73	14.43	
EDGE	2 TX slot	23.44	23.62	23.36	-6.02 dB	17.42	17.60	17.34	
EDGE	3 TX slot	23.55	23.56	23.38	-4.26 dB	19.29	19.30	19.12	
	4 TX slot	23.46	23.51	23.54	-3.01 dB	20.45	20.50	20.53	

		Burst Co	nducted Pow	ver (dBm)		Aver	age Power (dBm)	
GSM	1900	Channel			1	Channel			
		Low	Mid	High		Low	Mid	High	
G	SM	30.16	29.93	29.97	1			1	
	1 TX slot	26.74	26.25	26.37	-9.03 dB	17.71	17.22	17.34	
GPRS	2 TX slot	26.68	26.18	26.31	-6.02 dB	20.66	20.16	20.29	
GPRS	3 TX slot	26.63	26.13	26.26	-4.26 dB	22.37	21.87	22.00	
	4 TX slot	26.59	26.09	26.22	-3.01 dB	23.58	23.08	23.21	
	1 TX slot	21.61	21.03	20.92	-9.03 dB	12.58	12.00	11.89	
FDOF	2 TX slot	21.69	20.96	21.02	-6.02 dB	15.67	14.94	15.00	
EDGE	3 TX slot	21.43	20.85	20.80	-4.26 dB	17.17	16.59	16.54	
	4 TX slot	21.50	20.90	20.91	-3.01 dB	18.49	17.89	17.90	

Note(s):

1. Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB 2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB 3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB 4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

2. According to the conducted power as above, the GPRS/EDGE measurements are performed with 4Tx slot for GPRS 850 and GPRS1900.

Report No.: SHE20090007-02SE Date: 20

2021-04-09

Page 34 of 161

3. SAR is not required for EDGE mode because its output power is less than that of GPRS Mode

Conducted Power Measurement Results for WCDMA/HSDPA/HSPUA

		(Conducted Power (dBm)			
WCDMA Band II	Mode	Channel					
		Low	Mid	High			
RMC	12.2 kbps	22.88	23.06	23.22			
	Sub - Test 1	21.95	22.09	22.31			
HSDPA	Sub - Test 2	21.96	22.12	22.33			
пзира	Sub - Test 3	21.47	21.61	21.84			
	Sub - Test 4	21.47	21.62	21.83			
	Sub - Test 1	22.00	22.13	22.16			
	Sub - Test 2	19.96	20.12	20.14			
HSUPA	Sub - Test 3	21.01	21.16	21.15			
	Sub - Test 4	19.96	19.96	20.13			
	Sub - Test 5	21.99	21.98	22.13			

			Conducted Power (dBm)						
WCDMA Band IV	Mode	Channel							
		Low	Mid	High					
RMC	12.2 kbps	22.90	22.86	22.79					
	Sub - Test 1	21.91	21.87	21.83					
HSDPA	Sub - Test 2	21.93	21.87	21.82					
пэрга	Sub - Test 3	21.43	21.37	21.33					
	Sub - Test 4	21.40	21.35	21.32					
	Sub - Test 1	21.95	21.94	21.88					
	Sub - Test 2	19.84	19.91	19.81					
HSUPA	Sub - Test 3	20.87	20.86	20.88					
	Sub - Test 4	19.92	19.86	19.82					
	Sub - Test 5	21.86	21.92	21.85					

		C	Conducted Power (dBm)				
WCDMA Band V	Mode		Channel					
		Low	Mid	High				
RMC	12.2 kbps	23.95	24.02	24.18				
HSDPA	Sub - Test 1	22.95	23.03	23.16				
пэрра	Sub - Test 2	23.04	23.02	23.17				

Report No.:

SHE20090007-02SE

Date:

2021-04-09

Page 35 of 161

	Sub - Test 3	22.55	22.53	22.66
	Sub - Test 4	22.54	22.54	22.65
	Sub - Test 1	23.06	23.04	23.17
	Sub - Test 2	21.06	21.06	21.17
HSUPA	Sub - Test 3	22.07	22.06	22.20
	Sub - Test 4	21.03	20.99	21.18
	Sub - Test 5	23.09	23.10	23.21

Conducted power measurement results for LTE

	F	DD LTE Bar	nd 2						
Deve had the				Power	(dBm)				
Bandwidth	RB Set		QPSK			16QAM			
(MHz)	Channel	18700	18900	19100	18700	18900	19100		
	1 (RB_Pos:0)	23.27	23.46	23.37	22.77	22.83	22.84		
	1 (RB_Pos:49)	23.16	23.29	23.25	22.63	22.22	22.78		
	1 (RB_Pos:99)	23.53	23.39	23.29	22.92	22.74	22.72		
20MHz	50 (RB_Pos:0)	22.01	22.25	22.47	21.05	21.20	21.43		
	50 (RB_Pos:24)	22.15	22.22	22.41	21.12	21.19	21.36		
	50 (RB_Pos:49)	22.21	22.21	22.34	21.19	21.23	21.32		
	100 (RB_Pos:0)	22.07	22.20	22.40	21.13	21.37	21.41		
Den duri di k				Power	(dBm)				
Bandwidth	RB Set		QPSK			16QAM			
(MHz)	Channel	18675	18900	19125	18675	18900	19125		
	1 (RB_Pos:0)	23.18	23.31	23.48	21.94	22.88	22.82		
	1 (RB_Pos:37)	22.96	23.12	23.13	21.75	22.58	22.47		
	1 (RB_Pos:74)	23.38	23.41	23.47	22.09	22.91	22.76		
15MHz	36 (RB_Pos:0)	21.90	22.15	22.32	20.89	21.20	21.25		
	36 (RB_Pos:18)	21.84	22.17	22.23	20.94	21.26	21.23		
	36 (RB_Pos:37)	22.01	22.26	22.19	21.11	21.34	21.34		
	75 (RB_Pos:0)	21.97	22.43	22.34	21.00	21.44	21.29		
Donduvidéh	RB Set			Power	(dBm)				
Bandwidth	KD Sel		QPSK			16QAM			
(MHz)	Channel	18650	18900	19150	18650	18900	19150		
	1 (RB_Pos:0)	23.14	23.63	23.47	22.06	23.15	22.61		
	1 (RB_Pos:24)	22.93	23.33	23.29	21.87	22.90	22.23		
10MHz	1 (RB_Pos:49)	23.25	23.60	23.50	22.16	23.08	22.58		
	25 (RB_Pos:0)	22.06	22.51	22.40	21.06	21.57	21.52		
	25 (RB_Pos:12)	22.03	22.46	22.48	21.06	21.55	21.60		
	25 (RB_Pos:24)	22.06	22.50	22.46	21.15	21.59	21.59		

Report No.:

SHE20090007-02SE

Date:

2021-04-09

Page 36 of 161

	50 (RB_Pos:0)	22.01	22.52	22.43	20.99	21.51	21.45
Bandwidth	RB Set			Power	(dBm)		
(MHz)	ND Set		QPSK			16QAM	
	Channel	18625	18900	19175	18625	18900	19175
	1 (RB_Pos:0)	23.09	23.62	23.35	22.38	23.02	22.65
	1 (RB_Pos:12)	22.97	23.51	23.27	22.19	22.93	22.46
	1 (RB_Pos:24)	22.90	23.41	23.24	22.17	22.87	22.45
5MHz	12 (RB_Pos:0)	22.05	22.49	22.47	21.16	21.66	21.54
	12 (RB_Pos:6)	21.98	22.47	22.39	21.08	21.63	21.52
	12 (RB_Pos:11)	22.01	22.39	22.31	21.08	21.54	21.38
	25 (RB_Pos:0)	22.01	22.46	22.31	21.09	21.50	21.38
Bandwidth	RB Set			Power	(dBm)		
(MHz)	ND Set		QPSK			16QAM	
	Channel	18615	18900	19185	18615	18900	19185
	1 (RB_Pos:0)	22.96	23.45	23.35	21.90	23.03	22.43
	1 (RB_Pos:7)	22.93	23.48	23.30	21.91	23.00	22.40
	1 (RB_Pos:14)	22.91	23.34	23.21	21.79	22.92	22.29
3MHz	8 (RB_Pos:0)	22.01	22.41	22.31	21.17	21.62	21.45
	8 (RB_Pos:4)	22.00	22.46	22.29	21.13	21.70	21.41
	8 (RB_Pos:7)	22.00	22.40	22.29	21.11	21.59	21.36
	15 (RB_Pos:0)	22.00	22.40	22.32	21.02	21.54	21.30
Bandwidth	RB Set			Power	(dBm)		
(MHz)			QPSK	1		16QAM	
(=)	Channel	18607	18900	19193	18607	18900	19193
	1 (RB_Pos:0)	22.74	23.26	23.14	22.34	22.81	22.20
	1 (RB_Pos: 2)	22.76	23.32	23.20	22.39	22.86	22.19
	1 (RB_Pos:5)	22.87	23.22	23.07	22.31	22.79	22.33
1.4MHz	3 (RB_Pos:0)	22.82	23.22	23.18	22.14	22.51	22.45
	3 (RB_Pos:1)	22.84	23.24	23.23	22.03	22.50	22.49
	3 (RB_Pos:2)	22.83	23.14	23.18	22.03	22.37	22.42
	6 (RB_Pos:0)	21.96	22.30	22.17	21.15	21.32	21.50

FDD LTE Band 4							
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	20050	20175	20300	20050	20175	20300
20MHz	1 (RB_Pos:0)	22.82	22.80	22.73	22.24	22.20	22.16
	1 (RB_Pos:49)	22.73	22.69	22.45	22.06	22.15	21.92
	1 (RB_Pos:99)	22.81	22.69	22.79	22.23	22.06	22.11

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 37 of 161

		04 70	04.04	04.04	00 7 0	00.05	00.04
	50 (RB_Pos:0)	21.72	21.61	21.61	20.76	20.65	20.64
	50 (RB_Pos:24)	21.67	21.69	21.60	20.70	20.74	20.57
	50 (RB_Pos:49)	21.73	21.66	21.73	20.78	20.64	20.72
	100 (RB_Pos:0)	21.75	21.65	21.62	20.74	20.69	20.64
Bandwidth	RB Set			Power	(dBm)		
(MHz)			QPSK			16QAM	
	Channel	20025	20175	20325	20025	20175	20325
	1 (RB_Pos:0)	22.90	22.95	22.81	21.85	22.38	22.24
	1 (RB_Pos:37)	22.61	22.60	22.54	21.56	22.08	22.00
	1 (RB_Pos:74)	22.88	22.79	22.96	21.89	22.18	22.34
15MHz	36 (RB_Pos:0)	21.65	21.67	21.55	20.70	20.73	20.63
	36 (RB_Pos:18)	21.70	21.68	21.62	20.75	20.76	20.61
	36 (RB_Pos:37)	21.76	21.76	21.67	20.84	20.75	20.71
	75 (RB_Pos:0)	21.68	21.68	21.59	20.74	20.75	20.64
Bandwidth	RB Set			Power	(dBm)		
(MHz)			QPSK	1		16QAM	1
(=)	Channel	20000	20175	20350	20000	20175	20350
	1 (RB_Pos:0)	23.06	23.05	22.84	21.97	22.43	21.90
	1 (RB_Pos:24)	22.75	22.79	22.64	21.68	22.19	21.64
	1 (RB_Pos:49)	22.98	22.91	22.91	21.96	22.33	21.91
10MHz	25 (RB_Pos:0)	21.91	21.88	21.64	20.93	20.93	20.69
	25 (RB_Pos:12)	21.89	21.84	21.65	20.89	20.89	20.79
	25 (RB_Pos:24)	21.87	21.80	21.64	20.90	20.82	20.74
	50 (RB_Pos:0)	21.86	21.90	21.73	20.88	20.92	20.71
				Power	(dBm)		
Bandwidth		QPSK			16QAM		
Bandwidth	RB Set		QPSK			16QAM	
Bandwidth (MHz)	RB Set Channel	19975	QPSK 20175	20375	19975	16QAM 20175	20375
		19975 22.86		20375 22.80	19975 22.38	1	20375 21.89
	Channel		20175			20175	
	Channel 1 (RB_Pos:0)	22.86	20175 22.93	22.80	22.38	20175 22.06	21.89
	Channel 1 (RB_Pos:0) 1 (RB_Pos:12)	22.86 22.77	20175 22.93 22.82	22.80 22.66	22.38 22.32	20175 22.06 21.86	21.89 21.75
(MHz)	Channel 1 (RB_Pos:0) 1 (RB_Pos:12) 1 (RB_Pos:24)	22.86 22.77 22.78	20175 22.93 22.82 22.70	22.80 22.66 22.62	22.38 22.32 22.31	20175 22.06 21.86 21.85	21.89 21.75 21.80
(MHz)	Channel 1 (RB_Pos:0) 1 (RB_Pos:12) 1 (RB_Pos:24) 12 (RB_Pos:0)	22.86 22.77 22.78 21.82	20175 22.93 22.82 22.70 21.85	22.80 22.66 22.62 21.61	22.38 22.32 22.31 21.04	20175 22.06 21.86 21.85 20.92	21.89 21.75 21.80 20.73
(MHz)	Channel 1 (RB_Pos:0) 1 (RB_Pos:12) 1 (RB_Pos:24) 12 (RB_Pos:0) 12 (RB_Pos:6)	22.86 22.77 22.78 21.82 21.83	20175 22.93 22.82 22.70 21.85 21.83	22.80 22.66 22.62 21.61 21.62	22.38 22.32 22.31 21.04 21.02	20175 22.06 21.86 21.85 20.92 20.88	21.89 21.75 21.80 20.73 20.67
(MHz) 5MHz	Channel 1 (RB_Pos:0) 1 (RB_Pos:12) 1 (RB_Pos:24) 12 (RB_Pos:0) 12 (RB_Pos:6) 12 (RB_Pos:11) 25 (RB_Pos:0)	22.86 22.77 22.78 21.82 21.83 21.85	20175 22.93 22.82 22.70 21.85 21.83 21.79	22.80 22.66 22.62 21.61 21.62 21.71	22.38 22.32 22.31 21.04 21.02 21.08 20.93	20175 22.06 21.86 21.85 20.92 20.88 20.87	21.89 21.75 21.80 20.73 20.67 20.76
(MHz) 5MHz Bandwidth	Channel 1 (RB_Pos:0) 1 (RB_Pos:12) 1 (RB_Pos:24) 12 (RB_Pos:0) 12 (RB_Pos:6) 12 (RB_Pos:11)	22.86 22.77 22.78 21.82 21.83 21.85	20175 22.93 22.82 22.70 21.85 21.83 21.79	22.80 22.66 22.62 21.61 21.62 21.71 21.61	22.38 22.32 22.31 21.04 21.02 21.08 20.93	20175 22.06 21.86 21.85 20.92 20.88 20.87	21.89 21.75 21.80 20.73 20.67 20.76
(MHz) 5MHz	Channel 1 (RB_Pos:0) 1 (RB_Pos:12) 1 (RB_Pos:24) 12 (RB_Pos:0) 12 (RB_Pos:6) 12 (RB_Pos:11) 25 (RB_Pos:0)	22.86 22.77 22.78 21.82 21.83 21.85	20175 22.93 22.82 22.70 21.85 21.83 21.79 21.75	22.80 22.66 22.62 21.61 21.62 21.71 21.61	22.38 22.32 22.31 21.04 21.02 21.08 20.93	20175 22.06 21.86 21.85 20.92 20.88 20.87 20.80	21.89 21.75 21.80 20.73 20.67 20.76
(MHz) 5MHz Bandwidth	Channel 1 (RB_Pos:0) 1 (RB_Pos:12) 1 (RB_Pos:24) 12 (RB_Pos:0) 12 (RB_Pos:6) 12 (RB_Pos:11) 25 (RB_Pos:0) RB Set	22.86 22.77 22.78 21.82 21.83 21.83 21.85 21.82	20175 22.93 22.82 22.70 21.85 21.83 21.79 21.75 QPSK	22.80 22.66 22.62 21.61 21.62 21.71 21.61 Power	22.38 22.32 22.31 21.04 21.02 21.08 20.93 (dBm)	20175 22.06 21.86 21.85 20.92 20.88 20.87 20.80 16QAM	21.89 21.75 21.80 20.73 20.67 20.76 20.63
(MHz) 5MHz Bandwidth	Channel 1 (RB_Pos:0) 1 (RB_Pos:12) 1 (RB_Pos:24) 12 (RB_Pos:0) 12 (RB_Pos:6) 12 (RB_Pos:11) 25 (RB_Pos:0) RB Set Channel	22.86 22.77 22.78 21.82 21.83 21.85 21.85 21.82	20175 22.93 22.82 22.70 21.85 21.83 21.79 21.75 QPSK 20175	22.80 22.66 22.62 21.61 21.62 21.71 21.61 Power 20385	22.38 22.32 22.31 21.04 21.02 21.08 20.93 (dBm) 19965	20175 22.06 21.86 21.85 20.92 20.88 20.87 20.80 16QAM 20175	21.89 21.75 21.80 20.73 20.67 20.63 20.63

TEST	REPORT

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 38 of 161

						1	
	8 (RB_Pos:0)	21.87	21.76	21.63	21.02	20.85	20.67
	8 (RB_Pos:4)	21.81	21.78	21.71	20.93	20.90	20.71
	8 (RB_Pos:7)	21.83	21.76	21.67	20.96	20.87	20.69
	15 (RB_Pos:0)	21.79	21.82	21.68	20.87	20.82	20.70
Bandwidth	DB Sof			Power	(dBm)		
	Bandwidth RB Set		QPSK			16QAM	
(MHz)	Channel	19957	20175	20393	19957	20175	20393
	1 (RB_Pos:0)	22.76	22.76	22.60	21.75	22.13	21.66
	1 (RB_Pos: 2)	22.72	22.80	22.66	21.91	22.20	21.77
	1 (RB_Pos:5)	22.71	22.76	22.61	21.81	22.15	21.66
1.4MHz	3 (RB_Pos:0)	22.72	22.80	22.72	21.76	21.95	21.79
	3 (RB_Pos:1)	22.78	22.80	22.75	21.90	21.98	21.77
	3 (RB_Pos:2)	22.75	22.81	22.68	21.89	21.92	21.72
	6 (RB_Pos:0)	21.74	21.80	21.71	20.98	20.72	20.84

FDD LTE Band 5								
Dow dowi dth	DD Cot	Power (dBm)						
Bandwidth	RB Set		QPSK		16QAM			
(MHz)	Channel	20450	20525	20600	20450	20525	20600	
	1 (RB_Pos:0)	24.02	23.94	24.11	23.31	23.41	23.10	
	1 (RB_Pos:24)	23.76	23.71	23.82	23.04	23.20	22.89	
	1 (RB_Pos:49)	24.14	24.05	24.11	23.23	23.50	23.07	
10MHz	25 (RB_Pos:0)	22.92	22.91	22.95	21.95	21.95	22.09	
	25 (RB_Pos:12)	23.00	22.91	22.97	22.00	21.94	22.10	
	25 (RB_Pos:24)	22.99	22.89	22.92	21.94	21.97	22.07	
	50 (RB_Pos:0)	23.02	22.93	22.99	21.93	21.94	22.07	
Dowalasiatta	RB Set	Power (dBm)						
Bandwidth			QPSK			16QAM		
(MHz)	Channel	20425	20525	20625	20425	20525	20625	
	1 (RB_Pos:0)	23.96	23.78	23.99	23.10	23.02	23.41	
	1 (RB_Pos:12)	23.85	23.75	24.00	23.00	22.99	23.42	
	1 (RB_Pos:24)	23.79	23.74	23.81	23.03	22.99	23.31	
5MHz	12 (RB_Pos:0)	22.94	22.90	22.90	21.97	21.97	22.09	
	12 (RB_Pos:6)	22.85	22.86	22.88	21.91	21.93	21.98	
	12 (RB_Pos:11)	22.90	22.86	22.80	21.90	21.92	21.92	
	25 (RB_Pos:0)	22.83	22.81	22.90	21.83	21.91	21.97	
Dow dowi dth				Power	(dBm)			
Bandwidth	RB Set		QPSK		16QAM			
(MHz)	Channel	20415	20525	20635	20415	20525	20635	

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 39 of 161

	1 (RB_Pos:0)	23.94	23.78	23.90	22.80	23.30	22.90	
	1 (RB_Pos:7)	23.98	23.75	23.84	22.83	23.23	22.88	
	1 (RB_Pos:14)	23.80	23.74	23.81	22.64	23.24	22.80	
3MHz	8 (RB_Pos:0)	22.95	22.90	22.88	22.05	21.99	22.01	
	8 (RB_Pos:4)	23.01	22.85	22.82	22.13	21.98	21.94	
	8 (RB_Pos:7)	22.95	22.88	22.89	22.07	22.01	21.94	
	15 (RB_Pos:0)	22.97	22.84	22.81	21.96	21.91	21.85	
Developidate	DD Cot	Po			Power (dBm)			
Bandwidth	RB Set		QPSK			16QAM		
(MHz)	Channel	20407	20525	20643	20407	20525	20643	
	1 (RB_Pos:0)	23.76	23.76	23.82	22.98	23.20	22.83	
	1 (RB_Pos: 2)	23.84	23.75	23.83	22.99	23.23	22.74	
	1 (RB_Pos:5)	23.75	23.76	23.79	22.95	23.23	22.83	
1.4MHz	3 (RB_Pos:0)	23.80	23.65	23.79	22.90	23.01	23.01	
	3 (RB_Pos:1)	23.79	23.78	23.81	22.85	22.98	23.07	
	3 (RB_Pos:2)	23.82	23.68	23.74	22.87	22.93	22.96	
	6 (RB_Pos:0)	22.84	22.77	22.79	21.95	21.73	22.02	

	F	DD LTE Ban	d 7						
Dawahari déh			Power (dBm)						
Bandwidth	RB Set		QPSK		16QAM				
(MHz)	Channel	20850	21100	21350	20850	21100	21350		
	1 (RB_Pos:0)	21.58	22.70	22.54	21.15	22.02	21.91		
	1 (RB_Pos:49)	22.69	22.75	22.60	22.31	22.08	22.07		
	1 (RB_Pos:99)	22.59	22.64	22.60	22.15	22.01	22.08		
20MHz	50 (RB_Pos:0)	21.81	21.67	21.73	20.82	20.78	20.70		
	50 (RB_Pos:24)	21.92	21.75	21.82	20.93	20.80	20.80		
	50 (RB_Pos:49)	21.93	21.68	21.73	20.85	20.67	20.70		
	100 (RB_Pos:0)	21.87	21.69	21.77	21.03	20.73	20.73		
Dawahari déh			Power			r (dBm)			
Bandwidth	RB Set		QPSK			16QAM			
(MHz)	Channel	20825	21100	21375	20825	21100	21375		
	1 (RB_Pos:0)	21.67	22.57	22.60	20.57	21.97	21.98		
	1 (RB_Pos:37)	22.26	22.61	22.71	21.21	22.10	22.06		
	1 (RB_Pos:74)	22.57	22.62	22.63	21.78	22.11	22.03		
15MHz	36 (RB_Pos:0)	21.81	21.68	21.72	20.87	20.80	20.69		
	36 (RB_Pos:18)	21.83	21.70	21.89	20.95	20.86	20.82		
	36 (RB_Pos:37)	21.79	21.66	21.76	20.93	20.75	20.74		
	75 (RB_Pos:0)	21.91	21.67	21.73	20.87	20.75	20.76		

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 40 of 161

Deve had the				Power	(dBm)			
Bandwidth	RB Set		QPSK			16QAM		
(MHz)	Channel	20800	21100	21400	20800	21100	21400	
	1 (RB_Pos:0)	21.26	22.82	22.99	20.22	22.26	22.06	
	1 (RB_Pos:24)	21.72	22.59	22.79	20.71	22.06	21.81	
	1 (RB_Pos:49)	22.20	22.58	22.89	21.16	22.07	21.96	
10MHz	25 (RB_Pos:0)	21.49	21.77	21.97	20.60	20.83	21.07	
	25 (RB_Pos:12)	21.65	21.72	21.87	20.75	20.78	20.93	
	25 (RB_Pos:24)	21.73	21.78	21.86	20.81	20.84	20.95	
	50 (RB_Pos:0)	21.74	21.74	21.91	20.70	20.80	20.94	
Bandwidth	RB Set		Power (dBm)					
(MHz)	KD Set		QPSK			16QAM		
(141112)	Channel	20775	21100	21425	20775	21100	21425	
	1 (RB_Pos:0)	21.44	22.83	22.87	20.65	22.28	22.05	
	1 (RB_Pos:12)	21.55	22.68	22.80	20.78	22.20	21.98	
	1 (RB_Pos:24)	21.43	22.62	22.78	20.71	22.22	21.96	
5MHz	12 (RB_Pos:0)	21.49	21.69	21.95	20.67	20.85	21.01	
	12 (RB_Pos:6)	21.52	21.72	21.91	20.71	20.84	20.96	
	12 (RB_Pos:11)	21.50	21.73	21.85	20.68	20.83	20.91	
	25 (RB_Pos:0)	21.48	21.71	21.88	20.61	20.80	20.73	

	FI	DD LTE Ban	d 12						
Dondwidth	RB Set		Power (dBm)						
Bandwidth	RD Set		QPSK			16QAM			
(MHz)	Channel	23060	23095	23130	23060	23095	23130		
	1 (RB_Pos:0)	24.29	24.27	24.15	23.25	23.21	23.52		
	1 (RB_Pos:24)	23.91	23.84	23.92	22.83	22.90	23.31		
	1 (RB_Pos:49)	24.10	24.08	23.95	23.09	22.97	23.32		
10MHz	25 (RB_Pos:0)	22.97	23.02	23.04	22.15	22.09	22.10		
	25 (RB_Pos:12)	23.01	22.99	22.98	22.00	21.94	22.00		
	25 (RB_Pos:24)	23.04	23.04	22.91	22.01	21.96	21.96		
	50 (RB_Pos:0)	23.13	23.03	23.09	21.98	21.91	22.15		
Dan duri dik		Power (dBm)							
Bandwidth	RB Set		QPSK			16QAM			
(MHz)	Channel	23035	23095	23155	23035	23095	23155		
	1 (RB_Pos:0)	23.95	24.01	23.75	23.14	23.51	22.97		
	1 (RB_Pos:12)	23.89	23.93	23.78	23.09	23.42	22.94		
5MHz	1 (RB_Pos:24)	23.84	23.95	23.64	23.10	23.43	22.84		
	12 (RB_Pos:0)	23.01	23.00	22.80	22.19	22.09	21.87		

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 41 of 161

	12 (RB_Pos:6)	22.92	22.92	22.75	21.99	22.01	21.71			
	12 (RB_Pos:11)	22.87	22.85	22.67	21.90	22.04	21.69			
	25 (RB_Pos:0)	22.85	22.90	22.78	21.87	21.94	21.78			
Dendwidth	RB Set		Power (dBm)							
Bandwidth	KB Set		QPSK			16QAM				
(MHz)	Channel	23025	23095	23165	23025	23095	23165			
	1 (RB_Pos:0)	23.79	23.87	23.77	22.89	22.92	23.18			
	1 (RB_Pos:7)	23.80	23.86	23.73	22.84	22.83	23.15			
	1 (RB_Pos:14)	23.77	23.77	23.70	22.80	22.74	23.12			
3MHz	8 (RB_Pos:0)	22.82	22.81	22.84	21.88	21.99	21.81			
	8 (RB_Pos:4)	22.74	22.96	22.81	21.80	22.03	21.71			
	8 (RB_Pos:7)	22.70	22.95	22.80	21.75	21.98	21.80			
	15 (RB_Pos:0)	22.69	22.93	22.85	21.72	21.91	21.82			
Deve devi del				Power	(dBm)					
Bandwidth	RB Set		QPSK			16QAM				
(MHz)	Channel	23017	23095	23173	23017	23095	23173			
	1 (RB_Pos:0)	23.75	23.73	23.71	22.84	23.22	22.78			
	1 (RB_Pos: 2)	23.83	23.83	23.71	22.87	23.25	22.74			
	1 (RB_Pos:5)	23.78	23.79	23.69	22.91	23.19	22.76			
1.4MHz	3 (RB_Pos:0)	23.80	23.69	23.78	22.82	23.03	22.94			
	3 (RB_Pos:1)	23.82	23.82	23.81	22.86	22.98	22.88			
	3 (RB_Pos:2)	23.81	23.76	23.74	22.83	22.96	22.80			
	6 (RB_Pos:0)	22.71	22.80	22.68	22.10	21.75	21.81			

	FDD LTE Band 13						
Bandwidth	RB Set	Power (dBm)					
	RD Set		QPSK			16QAM	
(MHz)	Channel		23230			23230	
	1 (RB_Pos:0)		24.02			23.84	
	1 (RB_Pos:24)		23.77			23.20	
	1 (RB_Pos:49)		23.93			23.55	
10MHz	25 (RB_Pos:0)		22.89			21.93	
	25 (RB_Pos:12)		22.89			21.94	
	25 (RB_Pos:24)		22.84			21.89	
	50 (RB_Pos:0)		22.88			21.83	
Day had ble		Power (dBm)					
Bandwidth	RB Set		QPSK			16QAM	
(MHz)	Channel	23205	23230	23255	23205	23230	23255
5MHz	1 (RB_Pos:0)	23.82	23.80	23.88	22.89	22.92	23.41

	TEST	REPORT
--	------	--------

Report No.: SHE20090007-02SE

Date: 2021-04-09 Page 42 of 161

F							
	1 (RB_Pos:12)	23.80	23.83	23.83	22.87	22.99	23.29
	1 (RB_Pos:24)	23.80	23.75	23.77	22.89	22.94	23.24
	12 (RB_Pos:0)	22.79	22.79	22.78	21.86	21.94	21.95
	12 (RB_Pos:6)	22.76	22.80	22.74	21.81	21.95	21.96
	12 (RB_Pos:11)	22.82	22.77	22.75	21.88	21.86	21.91
	25 (RB_Pos:0)	22.82	22.85	22.83	21.80	21.90	21.90

	FI	DD LTE Ban	d 14						
Double	DB Sat			Power	(dBm)				
Bandwidth	RB Set		QPSK			16QAM			
(MHz)	Channel		23330			23330			
	1 (RB_Pos:0)		23.48			22.38			
	1 (RB_Pos:24)		23.07			22.04			
	1 (RB_Pos:49)		23.17			22.09			
10MHz	25 (RB_Pos:0)		22.15			21.19			
	25 (RB_Pos:12)		22.08			21.14			
	25 (RB_Pos:24)		22.11			21.21			
	50 (RB_Pos:0)		22.14			21.17			
Davidusi dila		Power (dBm)							
Bandwidth	RB Set		QPSK			16QAM	AM		
(MHz)	Channel	23305	23330	23355	23305	23330	23355		
	1 (RB_Pos:0)	23.13	23.18	23.14	22.37	22.31	22.61		
	1 (RB_Pos:12)	23.15	23.10	23.11	22.38	22.29	22.64		
	1 (RB_Pos:24)	23.07	23.11	23.12	22.31	22.33	22.62		
5MHz	12 (RB_Pos:0)	22.26	22.07	22.12	21.35	21.17	21.29		
	12 (RB_Pos:6)	22.18	22.20	22.18	21.24	21.24	21.22		
	12 (RB_Pos:11)	22.02	22.24	22.15	21.09	21.20	21.25		
	25 (RB_Pos:0)	22.03	22.06	22.19	21.08	21.16	21.24		

	FDD LTE Band 25											
Bandwidth	RB Set			Power	(dBm)							
(MHz)	KD Sel		QPSK			16QAM						
	Channel	26140	26365	26590	26140	26590						
	1 (RB_Pos:0)	22.83	23.11	23.04	22.37	22.51	22.47					
	1 (RB_Pos:49)	22.79	23.04	23.15	22.42	22.41	22.51					
20MHz	1 (RB_Pos:99)	22.77	22.75	22.83	22.27	22.13	22.22					
	50 (RB_Pos:0)	21.85	21.96	22.13	20.88	20.94	21.09					
	50 (RB_Pos:24)	21.87	21.99	22.19	20.94	20.96	21.24					

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 43 of 161

	50 (RB_Pos:49)	21.77	21.90	22.04	20.86	20.90	21.03
	100 (RB_Pos:0)	21.75	21.83	21.64	20.84	21.01	20.71
				Power			
Bandwidth	RB Set		QPSK		()	16QAM	
(MHz)	Channel	26115	26365	26615	26115	26365	26615
	1 (RB_Pos:0)	22.91	23.15	23.24	21.94	22.56	22.70
	1 (RB_Pos:37)	22.73	22.92	23.07	21.74	22.33	22.45
	1 (RB_Pos:74)	22.95	23.10	22.80	21.95	22.47	22.28
15MHz	36 (RB_Pos:0)	21.84	21.95	22.00	20.87	21.01	21.10
	36 (RB_Pos:18)	21.91	21.97	22.03	20.88	21.00	21.16
	36 (RB_Pos:37)	21.80	22.01	22.17	20.94	21.04	21.16
	75 (RB_Pos:0)	21.75	22.06	22.08	20.83	21.03	21.22
Dam davi dila				Power	(dBm)		
Bandwidth	RB Set		QPSK			16QAM	
(MHz)	Channel	26090	26365	26640	26090	26365	26640
	1 (RB_Pos:0)	23.16	23.28	23.41	22.14	22.73	22.48
	1 (RB_Pos:24)	23.06	23.12	23.29	22.04	22.55	22.30
	1 (RB_Pos:49)	23.04	23.32	22.48	22.05	22.67	21.59
10MHz	25 (RB_Pos:0)	22.04	22.18	22.35	21.13	21.21	21.36
	25 (RB_Pos:12)	22.06	22.16	22.21	21.06	21.24	21.32
	25 (RB_Pos:24)	22.07	22.10	22.23	21.07	21.20	21.43
	50 (RB_Pos:0)	22.13	22.22	22.32	21.10	21.23	21.35
Bandwidth	RB Set			Power	(dBm)		
(MHz)			QPSK	•		16QAM	
(11112)	Channel	26065	26365	26665	26065	26365	26665
	1 (RB_Pos:0)	23.17	23.29	23.44	22.70	22.45	22.54
	1 (RB_Pos:12)	23.08	23.21	23.31	22.62	22.32	22.49
	1 (RB_Pos:24)	23.08	23.15	22.53	22.58	22.32	21.80
5MHz	12 (RB_Pos:0)	22.11	22.25	22.47	21.25	21.39	21.44
	12 (RB_Pos:6)	22.06	22.20	22.49	21.19	21.32	21.42
	12 (RB_Pos:11)	22.09	22.18	22.46	21.21	21.24	21.41
	25 (RB_Pos:0)	22.11	22.17	22.30	21.20	21.24	21.41
Bandwidth	RB Set			Power	(dBm)		
(MHz)			QPSK	1		16QAM	
~ /	Channel	26055	26365	26675	26055	26365	26675
	1 (RB_Pos:0)	23.10	23.22	23.27	22.54	22.25	22.20
	1 (RB_Pos:7)	23.01	23.16	23.21	22.45	22.16	22.21
3MHz	1 (RB_Pos:14)	23.07	23.12	22.63	22.40	22.12	21.65
	8 (RB_Pos:0)	22.08	22.13	22.27	21.17	21.21	21.45
	8 (RB_Pos:4)	22.13	22.19	22.32	21.18	21.21	21.50

Report No.: SHE20090007-02SE

Date: 2021-04-09 Page 44 of 161

	8 (RB_Pos:7)	22.08	22.12	22.29	21.12	21.12	21.45
	15 (RB_Pos:0)	22.07	22.20	22.29	21.13	21.09	21.33
Bandwidth	RB Set			Power	(dBm)		
(MHz)	KD Sel		QPSK				
(11172)	Channel	26047	26365	26683	26047	26365	26683
	1 (RB_Pos:0)	23.00	23.10	23.10	22.03	22.19	22.51
	1 (RB_Pos: 2)	23.07	23.10	22.88	22.08	22.22	22.30
	1 (RB_Pos:5)	22.98	23.08	22.70	22.05	22.21	22.13
1.4MHz	3 (RB_Pos:0)	22.96	23.15	22.95	22.19	22.17	22.24
	3 (RB_Pos:1)	23.03	23.19	22.83	22.21	22.17	22.10
	3 (RB_Pos:2)	22.98	23.12	22.72	22.19	22.17	21.98
	6 (RB_Pos:0)	22.02	22.11	22.29	21.20	21.28	21.29

	FDD	LTE Band 20	6 Part22					
Bandwidth	RB Set			Power	(dBm)			
(MHz)	KD Set		QPSK			16QAM		
	Channel	26865	26915	26965	26865	26915	2696	
	1 (RB_Pos:0)	23.46	23.41	23.69	23.44	22.33	22.80	
	1 (RB_Pos:37)	23.14	23.06	23.29	23.16	22.06	22.4	
	1 (RB_Pos:74)	23.60	23.51	23.60	23.46	22.54	22.8	
15MHz	36 (RB_Pos:0)	22.45	22.45	22.50	22.50	21.45	21.4	
	36 (RB_Pos:18)	22.18	22.21	22.38	22.26	21.26	21.2	
	36 (RB_Pos:37)	22.15	22.10	22.27	22.08	21.07	21.1	
	75 (RB_Pos:0)	22.30	22.28	22.50	22.31	21.34	21.3	
Donducidth	RB Set	Power (er (dBm)			
Bandwidth	RD Set		QPSK			16QAM		
(MHz)	Channel	26840	26915	26990	26840	26915	2699	
	1 (RB_Pos:0)	23.39	23.37	23.45	22.45	22.77	22.4	
	1 (RB_Pos:24)	23.08	23.07	23.16	22.10	22.49	22.2	
	1 (RB_Pos:49)	23.38	23.48	23.27	22.25	22.84	22.3	
10MHz	25 (RB_Pos:0)	22.25	22.25	22.26	21.27	21.32	21.3	
	25 (RB_Pos:12)	22.25	22.18	22.27	21.26	21.22	21.3	
	25 (RB_Pos:24)	22.27	22.30	22.23	21.27	21.31	21.2	
	50 (RB_Pos:0)	22.31	22.26	22.35	21.26	21.27	21.3	
Dava davi dila		Power (dBm)						
Bandwidth	RB Set		QPSK		16QAM			
(MHz)	Channel	26815	26915	27015	26815	26915	2701	
	1 (RB_Pos:0)	23.19	23.22	23.34	22.32	22.73	22.30	
5MHz	1 (RB_Pos:12)	23.17	23.11	23.22	22.35	22.63	22.23	

Report No.:

SHE20090007-02SE

Date:

2021-04-09

Page 45 of 161

	1 (RB_Pos:24)	23.12	23.17	23.13	22.37	22.64	22.16
	12 (RB_Pos:0)	22.21	22.21	22.25	21.31	21.38	21.28
	12 (RB_Pos:6)	22.20	22.19	22.20	21.31	21.28	21.17
	12 (RB_Pos:11)	22.18	22.21	22.17	21.28	21.34	21.07
	25 (RB_Pos:0)	22.21	22.15	22.21	21.23	21.23	21.09
Developidate				Power	(dBm)		
Bandwidth	RB Set		QPSK			16QAM	
(MHz)	Channel	26805	26915	27025	26805	26915	27025
	1 (RB_Pos:0)	23.17	23.11	23.11	22.03	22.56	22.15
	1 (RB_Pos:7)	23.22	23.07	23.04	22.10	22.54	22.16
	1 (RB_Pos:14)	23.15	23.17	22.97	22.03	22.55	22.01
3MHz	8 (RB_Pos:0)	22.20	22.20	22.13	21.28	21.20	21.19
	8 (RB_Pos:4)	22.22	22.19	22.13	21.27	21.21	21.18
	8 (RB_Pos:7)	22.17	22.14	22.04	21.26	21.22	21.11
	15 (RB_Pos:0)	22.22	22.18	22.12	21.20	21.21	21.07
Deve had Mi				Power	(dBm)		
Bandwidth	RB Set		QPSK			16QAM	
(MHz)	Channel	26797	26915	27033	26797	26915	27033
	1 (RB_Pos:0)	23.13	23.03	23.01	22.13	22.14	22.38
	1 (RB_Pos: 2)	23.14	23.05	22.98	22.19	22.21	22.44
	1 (RB_Pos:5)	23.07	23.01	22.94	22.22	22.18	22.36
1.4MHz	3 (RB_Pos:0)	23.10	23.02	22.99	22.25	22.16	22.22
	3 (RB_Pos:1)	23.20	23.12	23.03	22.32	22.18	22.23
	3 (RB_Pos:2)	23.16	23.01	22.95	22.26	22.15	22.15
	6 (RB_Pos:0)	22.15	22.11	22.06	21.33	21.28	20.95

	FDD L	TE Band 2	e Part90					
Denduridth	RB Set	Power (dBm)						
Bandwidth	RD Set		QPSK			16QAM		
(MHz)	Channel		26740			26740		
	1 (RB_Pos:0)		23.29			22.30		
	1 (RB_Pos:24)		23.04			22.09		
	1 (RB_Pos:49)		23.28			22.37		
10MHz	25 (RB_Pos:0)		22.16			21.17		
	25 (RB_Pos:12)		22.18			21.21		
	25 (RB_Pos:24)		22.16			21.22		
	50 (RB_Pos:0)		22.22			21.18		
Bandwidth	DB Set			Power	(dBm)	n)		
(MHz)	RB Set			16QAM				

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 46 of 161

	Channel	26715	26740	26765	26715	26740	26765
	1 (RB_Pos:0)	23.16	23.14	23.10	22.22	22.62	22.26
	1 (RB_Pos:12)	23.13	23.08	23.07	22.28	22.61	22.22
	1 (RB_Pos:24)	23.14	23.11	23.06	22.24	22.59	22.24
5MHz	12 (RB_Pos:0)	22.12	22.16	22.09	21.26	21.30	21.21
	12 (RB_Pos:6)	22.09	22.16	22.10	21.26	21.25	21.15
	12 (RB_Pos:11)	22.14	22.12	22.14	21.24	21.26	21.14
	25 (RB_Pos:0)	22.10	22.18	22.11	21.18	21.22	21.10
Bandwidth	RB Set			Power	(dBm)		
(MHz)	KD Sel		QPSK			16QAM	
(10112)	Channel	26705	26740	26775	26705	26740	26775
	1 (RB_Pos:0)	23.07	23.05	23.07	21.97	22.48	22.23
	1 (RB_Pos:7)	23.07	23.03	23.09	21.96	22.49	22.21
	1 (RB_Pos:14)	22.99	23.03	23.01	21.90	22.42	22.16
3MHz	8 (RB_Pos:0)	22.12	22.14	22.08	21.21	21.16	21.23
	8 (RB_Pos:4)	22.17	22.16	22.15	21.20	21.21	21.31
	8 (RB_Pos:7)	22.11	22.09	22.06	21.20	21.16	21.23
	15 (RB_Pos:0)	22.11	22.13	22.11	21.14	21.16	21.10
Bandwidth	RB Set			Power	(dBm)		
(MHz)	KB Set		QPSK			16QAM	
(10112)	Channel	26697	26740	26783	26697	26740	26783
	1 (RB_Pos:0)	22.98	23.04	23.00	22.07	22.46	22.09
	1 (RB_Pos: 2)	23.00	23.11	23.26	22.12	22.45	22.16
	1 (RB_Pos:5)	23.03	23.05	23.13	22.04	22.42	22.13
1.4MHz	3 (RB_Pos:0)	23.01	22.96	23.11	22.03	22.23	22.31
	3 (RB_Pos:1)	23.04	23.08	23.17	22.13	22.26	22.37
	3 (RB_Pos:2)	23.04	23.03	23.08	22.04	22.22	22.31
	6 (RB_Pos:0)	22.98	22.08	22.08	21.21	21.00	21.30

	FDD LTE Band 38											
Denduridth	RB Set	Power (dBm)										
Bandwidth	RD Set	QPSK				16QAM						
(MHz)	Channel	37850	38000	38150	37850	38000	38150					
	1 (RB_Pos:0)	22.96	23.01	23.14	22.28	22.27	22.46					
	1 (RB_Pos:49)	23.11	23.10	23.30	22.37	22.25	22.54					
20MHz	1 (RB_Pos:99)	23.09	23.19	23.28	22.45	22.47	22.64					
	50 (RB_Pos:0)	22.03	22.00	21.97	21.04	21.02	21.02					
	50 (RB_Pos:24)	22.05	22.06	22.09	21.09	21.10	21.12					
	50 (RB_Pos:49)	22.12	22.10	22.15	21.10	21.16	21.15					

Report No.:

SHE20090007-02SE

Date:

2021-04-09

Page 47 of 161

	100 (RB_Pos:0)	22.07	22.04	22.08	21.06	21.05	21.10	
Bandwidth	RB Set			Power	(dBm)			
(MHz)	ND Set		QPSK			16QAM		
(11172)	Channel	37825	38000	38175	37825	38000	38175	
	1 (RB_Pos:0)	23.02	23.04	23.05	22.24	22.48	22.36	
	1 (RB_Pos:37)	23.07	23.15	23.07	22.30	22.64	22.47	
	1 (RB_Pos:74)	23.16	23.27	23.13	22.38	22.71	22.50	
15MHz	36 (RB_Pos:0)	22.03	22.05	21.98	21.10	21.04	21.02	
	36 (RB_Pos:18)	22.07	22.12	22.08	21.09	21.10	21.13	
	36 (RB_Pos:37)	22.11	22.09	22.07	21.08	21.10	21.12	
	75 (RB_Pos:0)	22.06	22.02	22.07	21.06	21.06	21.11	
Donducidth	DB Sat			Power	(dBm)			
Bandwidth (MHz)	RB Set		QPSK			16QAM		
	Channel	37800	38000	38200	37800	38000	38200	
	1 (RB_Pos:0)	23.37	23.31	23.49	22.61	22.75	22.75	
	1 (RB_Pos:24)	23.24	23.28	23.31	22.56	22.78	22.69	
	1 (RB_Pos:49)	23.42	23.47	23.48	22.77	23.00	22.93	
10MHz	25 (RB_Pos:0)	22.22	22.15	22.20	21.20	21.17	21.24	
	25 (RB_Pos:12)	22.22	22.26	22.31	21.25	21.28	21.35	
	25 (RB_Pos:24)	22.23	22.28	22.31	21.23	21.29	21.32	
	50 (RB_Pos:0)	22.24	22.29	22.26	21.25	21.30	21.33	
Bandwidth	RB Set			Power	(dBm)			
(MHz)	ND Set		QPSK			16QAM		
	Channel	37775	38000	38225	37775	38000	38225	
	1 (RB_Pos:0)	23.36	23.27	23.36	22.57	22.69	22.66	
	1 (RB_Pos:12)	23.32	23.19	23.27	22.55	22.62	22.57	
	1 (RB_Pos:24)	23.33	23.26	23.28	22.56	22.64	22.49	
5MHz	12 (RB_Pos:0)	22.26	22.30	22.21	21.26	21.40	21.28	
	12 (RB_Pos:6)	22.20	22.26	22.29	21.23	21.37	21.35	
	12 (RB_Pos:11)	22.22	22.12	22.30	21.21	21.28	21.30	
	25 (RB_Pos:0)	22.24	22.22	22.31	21.26	21.32	21.29	

	FDD LTE Band 41											
Bandwidth	RB Set			Power	(dBm)							
(MHz)	RD Sel	QPSK 16Q					AM					
(11172)	Channel	39750	40620	41490	39750	9750 40620						
	1 (RB_Pos:0)	24.10	23.93	24.15	24.35	24.25	24.49					
20MHz	1 (RB_Pos:49)	24.30	24.09	24.42	24.58	24.39	24.74					
	1 (RB_Pos:99)	23.67	23.39	23.86	24.04	23.73	24.23					

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 48 of 161

	50 (RB_Pos:0)	24.24	24.11	24.38	24.16	24.06	24.40	
	50 (RB_Pos:24)	24.29	24.09	24.44	24.27	24.11	24.45	
	50 (RB_Pos:49)	24.18	23.93	24.40	24.18	23.88	24.38	
	100 (RB_Pos:0)	24.19	24.02	24.34	24.24	24.06	24.40	
				Power	(dBm)			
Bandwidth	RB Set		QPSK			16QAM		
(MHz)	Channel	39725	40620	41515	39725	40620	41515	
	1 (RB_Pos:0)	23.73	23.62	23.93	24.02	23.92	24.26	
	1 (RB_Pos:37)	24.12	23.92	24.30	24.46	24.24	24.63	
	1 (RB_Pos:74)	23.56	23.27	23.74	23.90	23.62	24.07	
15MHz	36 (RB_Pos:0)	24.23	24.00	24.40	24.25	24.06	24.45	
	36 (RB_Pos:18)	24.36	24.14	24.56	24.40	24.16	24.59	
	36 (RB_Pos:37)	24.39	24.08	24.50	24.41	24.13	24.55	
	75 (RB_Pos:0)	24.33	24.12	24.48	24.39	24.17	24.58	
Den duri dila				Power	(dBm)			
Bandwidth	RB Set		QPSK			16QAM		
(MHz)	Channel	39700	40620	41540	39700	40620	41540	
	1 (RB_Pos:0)	23.69	23.59	24.03	23.99	23.85	24.31	
	1 (RB_Pos:24)	23.75	23.57	24.06	24.08	23.88	24.37	
	1 (RB_Pos:49)	23.65	23.46	24.07	24.04	23.80	24.36	
10MHz	25 (RB_Pos:0)	23.79	23.59	24.17	23.80	23.62	24.24	
	25 (RB_Pos:12)	23.87	23.69	24.14	23.88	23.73	24.24	
	25 (RB_Pos:24)	23.81	23.68	24.16	23.82	23.69	24.20	
	50 (RB_Pos:0)	23.74	23.63	24.10	23.77	23.69	24.21	
Donduuidth	DB Sat			Power	(dBm)			
Bandwidth (MHz)	RB Set		QPSK			16QAM		
	Channel	39675	40620	41565	39675	40620	41565	
	1 (RB_Pos:0)	23.90	23.60	21.45	24.23	23.88	24.36	
	1 (RB_Pos:12)	23.80	23.60	21.36	24.15	23.83	24.41	
	1 (RB_Pos:24)	23.76	23.57	21.37	24.12	23.80	24.33	
5MHz	12 (RB_Pos:0)	23.96	23.65	23.63	24.00	23.74	24.19	
	12 (RB_Pos:6)	23.90	23.63	23.54	24.03	23.70	24.23	
	12 (RB_Pos:11)	23.90	23.63	24.18	23.96	23.65	24.18	
	25 (RB_Pos:0)	23.90	23.60	24.11	23.98	23.68	24.22	

FDD LTE Band 66							
Bandwidth (MHz)	RB Set	Power (dBm)					
			QPSK			16QAM	
	Channel	132072	132322	132572	132072	132322	132572

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 49 of 161

Bandwidth (MHz)	RB Set		QPSK			16QAM	1
			l	Power			
	25 (RB_Pos:0)	21.67	21.70	21.63	20.70	20.75	20.0
	12 (RB_Pos:11)	21.65	21.62	21.61	20.75	20.80	20.6
	12 (RB_Pos:6)	21.70	21.69	21.61	20.81	20.84	20.0
5MHz	12 (RB_Pos:0)	21.79	21.68	21.76	20.90	20.87	20.8
	1 (RB_Pos:24)	22.64	22.76	22.62	21.80	22.20	21.7
	1 (RB_Pos:12)	22.70	22.67	22.63	21.80	22.20	21.0
	1 (RB_Pos:0)	22.85	22.85	22.65	21.98	22.37	21.8
(MHz)	Channel	131997	132322	132647	131997	132322	1326
Bandwidth	RB Set		QPSK	FOwer		16QAM	
	50 (RB_Pos:0)	21.86	21.77	21.70 Power	20.85	20.83	20.7
	25 (RB_Pos:24)	21.76	21.82	21.72	20.79	20.84	20.8
	25 (RB_Pos:12)	21.73	21.68	21.57	20.79	20.76	20.7
10MHz	25 (RB_Pos:0)	21.76	21.84	21.74	20.82	20.86	20.7
	1 (RB_Pos:49)	22.88	23.00	22.95	21.75	22.31	21.9
	1 (RB_Pos:24)	22.67	22.70	22.57	21.64	22.04	21.6
	1 (RB_Pos:0)	23.08	23.11	22.99	22.03	22.45	22.0
	Channel	132022	132322	132622	132022	132322	1326
(MHz)			QPSK			16QAM	
Bandwidth	RB Set		Power (dBm)				
	75 (RB_Pos:0)	20.72	20.42	20.42	19.71	19.51	19.4
	36 (RB_Pos:37)	20.67	20.48	20.44	19.78	19.45	19.3
	36 (RB_Pos:18)	20.52	20.23	20.20	19.55	19.26	19.2
15MHz	36 (RB_Pos:0)	20.85	20.55	20.44	19.84	19.56	19.5
	1 (RB_Pos:74)	22.25	21.97	21.96	21.20	21.37	21.4
	1 (RB_Pos:37)	21.35	21.07	21.11	20.33	20.45	20.5
	1 (RB_Pos:0)	22.44	22.26	22.19	21.41	21.63	21.5
(MHz)	Channel	132047	132322	132597	132047	132322	1325
Bandwidth	RB Set		QPSK			16QAM	
Deve best bit			•	Power	(dBm)		
	100 (RB_Pos:0)	20.99	20.69	20.85	19.91	19.69	19.7
	50 (RB_Pos:49)	20.92	20.63	20.66	19.98	19.71	19.6
	50 (RB_Pos:24)	20.54	20.29	20.36	19.53	19.29	19.3
20MHz	50 (RB_Pos:0)	20.97	20.75	20.77	19.84	19.72	19.7
	1 (RB Pos:99)	22.93	22.67	22.65	22.34	22.04	22.0
	1 (RB_Pos:0) 1 (RB_Pos:49)	23.23 21.45	23.09 21.14	22.91 21.13	22.67 20.78	22.49 20.57	22.2 20.5

Report No.:

SHE20090007-02SE

Date: 20

2021-04-09

Page 50 of 161

	1 (RB_Pos:0)	22.64	22.70	22.61	21.64	22.01	21.70
	1 (RB_Pos:7)	22.70	22.67	22.64	21.67	22.04	21.63
	1 (RB_Pos:14)	22.59	22.59	22.53	21.56	21.97	21.59
3MHz	8 (RB_Pos:0)	21.77	21.65	21.56	20.85	20.76	20.68
	8 (RB_Pos:4)	21.80	21.71	21.63	20.85	20.74	20.64
	8 (RB_Pos:7)	21.76	21.63	21.59	20.81	20.66	20.63
	15 (RB_Pos:0)	21.77	21.67	21.60	20.78	20.68	20.56
Dow dowielth	DB Set	Power (dBm)					
Bandwidth	RB Set	QPSK			16QAM		
(MHz)	Channel	131979	132322	132665	131979	132322	132665
	1 (RB_Pos:0)	22.69	22.59	22.55	21.79	21.99	21.63
	1 (RB_Pos: 2)	22.69	22.66	22.61	21.80	22.01	21.68
	1 (RB_Pos:5)	22.67	22.64	22.57	21.79	21.97	21.67
1.4MHz	3 (RB_Pos:0)	22.63	22.65	22.63	21.76	21.82	21.74
	3 (RB_Pos:1)	22.70	22.65	22.60	21.71	21.86	21.81
	3 (RB_Pos:2)	22.63	22.60	22.57	21.69	21.81	21.71
	6 (RB_Pos:0)	21.66	21.64	21.52	20.81	20.55	20.78

Conducted power measurement results for WLAN (2.4 GHz)

		Conducted Power (dBm) Channel				
Mode	Worst case Data rate					
		1	6	11		
802.11b	11 Mbps	12.41	11.20	12.02		
802.11g	54 Mbps	12.27	10.97	11.87		
802.11n(HT20)	MCS3	11.34	9.34	10.22		

		Co	onducted Power (dB	m)
Mode	Worst case Data rate Channel		Channel	
		3	6	9
802.11n(HT40)	MCS3	11.38	11.90	9.87

Conducted power measurement results for WLAN (5.2 GHz)

		Conducted Power (dBm)				
Mode	Worst case Data rate	Channel				
		36	44	48		
802.11a	24 Mbps	10.92	10.83	10.77		
802.11n(HT20)	MCS3	10.18	10.01	10.09		
802.11ac(VHT20)	MCS3	11.59	1 1.85	11.77		

	Mode	Worst case Data rate	Conducted Power (dBm)
--	------	----------------------	-----------------------

R	Report No.:	SHE20090007-02SE	Date:	2021-04-09	Page 51 of 161

		Channel		
		38	46	
802.11n(HT40)	MCS0	9.46	9.29	
802.11ac(VHT40)	MCS0	11.02	10.65	

	Worst case Data rate	Conducted Power (dBm)
Mode		Channel
		42
802.11ac(VHT80)	MCS0	10.06

Conducted power measurement results for WLAN (5.8 GHz)

		Conducted Power (dBm) Channel				
Mode	Worst case Data rate					
		149	157	165		
802.11a	24 Mbps	10.63	10.66	10.64		
802.11n(HT20)	MCS3	10.25	10.34	10.27		
802.11ac(VHT20)	MCS3	11.37	11.47	11.77		

		Conducted I	Power (dBm)			
Mode	Worst case Data rate	Channel				
		151	159			
802.11n(HT40)	MCS0	9.58	9.63			
802.11ac(VHT40)	MCS0	11.05	11.34			

	Data Rate (Mbps)	Conducted Power (dBm)					
Mode		Channel					
	(analy)	155					
802.11ac(VHT80)	MCS0	10.16					

Conducted power measurement results for Bluetooth

Mode	Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)
		0	2402	9.19
	GFSK	39	2441	9.97
		78	2480	9.90
BR/EDR		0	2402	9.04
	Pi/4DOPSK	39	2441	9.80
		78	2480	9.84
	8DPSK	0	2402	9.32

Report No.:	SHE20090007-02SE	Date:	2021-04-09	Page 52 of 161
		39	2441	10.11
		78	2480	10.09
		0	2402	-0.17
BLE	GFSK	19	2440	0.96
		39	2480	0.73

Note(s):

 Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f_{(GHz)}}] \le 3.0$ for

1-g SAR and \leq 7.5 for 10-g extremity SAR

5800

56 mW

 $f_{(GHz)}$ is the RF channel transmit frequency in GHz

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

The result is rounded to one decimal place for comparison

Bluetooth Turn-up Power (dBm)	Separation Distance (mm)	Frequency (GHz)	Value	Exclusion Thresholds
10.5	5	2.45	3.29	3.0

Per KDB 447498 D01v06, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 3.29 which is> 3.0, SAR testing is required.

For IC: RSS-102 section 2.5.1 Exemption Limits for Routine Evaluation, Table 1 shows the SAR evaluation for a device with a separation distance of 5 mm at 2450 MHz is 4 mW, which is 6 dBm < 10.10 dBm, so SAR testing is required for IC.

Table 1: SAR separation d	evaluation — Ex istance <mark>4,5</mark>	emption limits fo	or routine evalua	tion based on fre	equency and
		Exe	mption Limits (n	ıW)	
Frequency (MHz)	At separation distance of ≤5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm
≤300	71 mW	101 mW	132 mW	162 mW	193 mW
450	52 mW	70 mW	88 mW	106 mW	123 mW
835	17 mW	30 mW	42 mW	55 mW	67 mW
1900	7 mW	10 mW	18 mW	34 mW	60 mW
2450	4 mW	7 mW	15 mW	30 mW	52 mW
3500	2 mW	6 mW	16 mW	32 mW	55 mW
5800	1 mW	6 mW	15 mW	27 mW	41 mW
		Exe	mption Limits (n	ıW)	
Frequency (MHz)	At separation distance of 30 mm	At separation distance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	At separation distance of ≥50 mm
≤300	223 mW	254 mW	284 mW	315 mW	345 mW
450	141 mW	159 mW	177 mW	195 mW	213 mW
835	80 mW	92 mW	105 mW	117 mW	130 mW
1900	99 mW	153 mW	225 mW	316 mW	431 mW
2450	83 mW	123 mW	173 mW	235 mW	309 mW
3500	86 mW	124 mW	170 mW	225 mW	290 mW

85 mW

97 mW

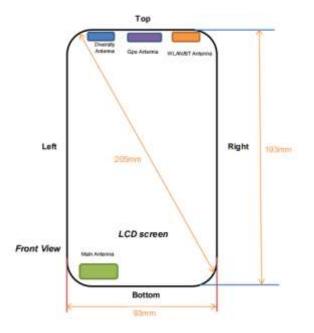
106 mW

71 mW

Report No.: SHE20090007-02SE Date: 2021-04-09

Page 53 of 161

6.2 Transmit Antennas Conditions



Antenna information:

Main Antenna	GSM/WCDMA/LTE TX/RX
LTE Diversity Antenna	Only RX
WLAN/BT Antenna	WLAN/BT TX/RX
WLAN Diversity Antenna	Only RX

Distance of the Antenna to the EUT surface and edge (mm)										
Antenna Front Back Top Bottom Left Right										
Main Antenna	3	3.9	158.8	5	3.5	88.4				
WLAN/BT Antenna	5.5	4.2	6	158.5	87	3.5				

Note(s):

- 1. Per KDB648474 D04, because the overall diagonal distance of this devices is 100mm<160mm, it is considered as "Mini Table" device.
- 2. Per KDB648474 D04, 10-g extremity SAR is not required when Body-Worn mode 1-g reported SAR < 1.2 W/Kg.
- 3. According to the KDB941225 D06 Hot Spot SAR v02, the edges with less than 2.5 cm distance to the antennas need to be tested for SAR.

Date:

Report No.: SHE20090007-02SE

2021-04-09

Page 54 of 161

 Referring to KDB 941225 D06 v02, When the overall device length and width are ≥9cm*5cm, the test distance is 10mm, SAR must be measured for all sides and surfaces with a transmitting antenna located with 25mm from that surface or edge.

6.3 SAR Test Exclusion Consideration Table

For FCC

According with FCC KDB 447498 D01, Appendix A, <SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and \leq 50 mm> Table, this Device SAR test configurations consider as below.

For IC

According with section 2.5.1 of RSS-102 Issue 5, SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table.

		Exemption	Limits (mW)		
Frequency (MHz)	distance of		At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm
≤300	71 mW	101 mW	132 mW	162 mW	193 mW
450	52 mW	70 mW	88 mW	106 mW	123 mW
835	17 mW	30 mW	42 mW	55 mW	67 mW
1900	7 mW	10 mW	18 mW	34 mW	60 mW
2450	4 mW	7 mW	15 mW	30 mW	52 mW
3500	2 mW	6 mW	16 mW	32 mW	55 mW
5800	1 mW	6 mW	15 mW	27 mW	41 mW
Frequency (MHz)	At separation distance of 30 mm	At separation duistance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	At separation distance of ≥50 mm
≤300	223 mW	254 mW	284 mW	315 mW	345 mW
450	141 mW	159 mW	177 mW	195 mW	213 mW
835	80 mW	92 mW	105 mW	117 mW	130 mW
1900	99 mW	153 mW	225 mW	315 mW	431 mW
2450	83 mW	123 mW	173 mW	235 mW	309 mW
3500	86 mW	124 mW	170 mW	225 mW	290 mW
5800	56 mW	71 mW	85 mW	97 mW	106 mW

Report No.: S

SHE20090007-02SE

Date: 2021-04-09

Page 55 of 161

SAR Test Exclusion Consideration Table:

		Max.	ax. Tune-up Test Position Configurations						
Band	Mode	Power		llaad	Front/	Laft Edua	Right	Тор	Bottom
		dBm	mW	Head	Back	Left Edge	Edge	Edge	Edge
	Dis	tance to Us	er	<5mm	5mm	3.5mm	88.4mm	158.8mm	5mm
GSM 850	Voice	34.20	2630.27	Yes	Yes	Yes	No	No	Yes
	Data	31.00	1258.93	N/A	Yes	Yes	No	No	Yes
	Dis	tance to Us	er	<5mm	5mm	3.5mm	88.4mm	158.8mm	5mm
GSM 1900	Voice	30.50	1122.02	Yes	Yes	Yes	No	No	Yes
	Data	25.50	354.81	N/A	Yes	Yes	No	No	Yes
WCDMA	Dis	tance to Us	er	<5mm	5mm	3.5mm	88.4mm	158.8mm	5mm
Band 2	RMC	23.60	229.09	Yes	Yes	Yes	No	No	Yes
WCDMA	Dis	tance to Us	er	<5mm	5mm	3.5mm	88.4mm	158.8mm	5mm
Band 4	RMC	23.50	223.87	Yes	Yes	Yes	No	No	Yes
WCDMA	Dis	tance to Us	er	<5mm	5mm	3.5mm	88.4mm	158.8mm	5mm
Band 5	RMC	24.50	281.84	Yes	Yes	Yes	No	No	Yes
LTE Band	Dis	tance to Us	er	<5mm	5mm	3.5mm	88.4mm	158.8mm	5mm
2	QPSK	23.80	239.88	Yes	Yes	Yes	No	No	Yes
LTE Band	Dis	tance to Us	er	<5mm	5mm	3.5mm	88.4mm	158.8mm	5mm
4	QPSK	23.50	223.87	Yes	Yes	Yes	No	No	Yes
LTE Band	Dis	tance to Us	er	<5mm	5mm	3.5mm	88.4mm	158.8mm	5mm
5	QPSK	24.50	281.84	Yes	Yes	Yes	No	No	Yes
LTE Band	Dis	tance to Us	er	<5mm	5mm	3.5mm	88.4mm	158.8mm	5mm
7	QPSK	23.00	199.53	Yes	Yes	Yes	No	No	Yes
LTE Band	Dis	tance to Us	er	<5mm	5mm	3.5mm	88.4mm	158.8mm	5mm
12	QPSK	25.00	316.23	Yes	Yes	Yes	No	No	Yes
LTE Band	Dis	tance to Us	er	<5mm	5mm	3.5mm	88.4mm	158.8mm	5mm
13	QPSK	24.50	281.84	Yes	Yes	Yes	No	No	Yes
LTE Band	Dis	tance to Us	er	<5mm	5mm	3.5mm	88.4mm	158.8mm	5mm
14	QPSK	24.00	251.19	Yes	Yes	Yes	No	No	Yes
LTE Band	Dis	tance to Us	er	<5mm	5mm	3.5mm	88.4mm	158.8mm	5mm
25	QPSK	23.50	223.87	Yes	Yes	Yes	No	No	Yes
LTE Band	Dis	tance to Us	er	<5mm	5mm	3.5mm	88.4mm	158.8mm	5mm
26	QPSK	24.00	251.19	Yes	Yes	Yes	No	No	Yes
LTE Band	Dis	tance to Us	er	<5mm	5mm	3.5mm	88.4mm	158.8mm	5mm
41	QPSK	25.00	316.23	Yes	Yes	Yes	No	No	Yes
LTE Band	Dis	tance to Us	er	<5mm	5mm	3.5mm	88.4mm	158.8mm	5mm
66	QPSK	23.50	223.87	Yes	Yes	Yes	No	No	Yes

Date:

Report No.:

SHE20090007-02SE

2021-04-09

Page 56 of 161

	Dis	tance to Use	er	<5mm	5.5mm	87mm	3.5mm	6mm	158.5mm
	802.11b	12.80	19.05	Yes	Yes	No	Yes	Yes	No
WLAN	802.11g	12.50	17.78	Yes	Yes	No	Yes	Yes	No
2.4 G	802.11n (HT20)	12.00	15.85	Yes	Yes	No	Yes	Yes	No
	802.11n (HT40)	12.20	16.60	Yes	Yes	No	Yes	Yes	No
	Dis	tance to Use	er	<5mm	5.5mm	87mm	3.5mm	6mm	158.5mm
	802.11a	11.30	13.49	Yes	Yes	No	Yes	Yes	No
	802.11n (HT20)	10.50	11.22	Yes	Yes	No	Yes	Yes	No
WLAN	802.11ac (HT20)	12.00	15.85	Yes	Yes	No	Yes	Yes	No
5.2 G	802.11n (HT40)	10.00	10.00	Yes	Yes	No	Yes	Yes	No
	802.11ac (HT40)	11.50	14.13	Yes	Yes	No	Yes	Yes	No
	802.11ac (HT80)	10.30	10.72	Yes	Yes	No	Yes	Yes	No
	Dis	tance to Use	er	<5mm	5.5mm	87mm	3.5mm	6mm	158.5mn
	802.11a	11.00	12.59	Yes	Yes	No	Yes	Yes	No
	802.11n (HT20)	10.50	11.22	Yes	Yes	No	Yes	Yes	No
WLAN	802.11ac (HT20)	12.00	15.85	Yes	Yes	No	Yes	Yes	No
5.8 G	802.11n (HT40)	10.00	10.00	Yes	Yes	No	Yes	Yes	No
	802.11ac (HT40)	11.50	14.13	Yes	Yes	No	Yes	Yes	No
	802.11ac (HT80)	10.50	11.22	Yes	Yes	No	Yes	Yes	No
	Dis	tance to Use	er	<5mm	5.5mm	87mm	3.5mm	6mm	158.5mm
Bluetooth	BR/EDR	10.50	11.22	Yes	Yes	No	Yes	Yes	No
	BLE	1.00	1.26	Yes	Yes	No	Yes	Yes	No

1. Maximum power is the source-based time-average power and represents the maximum RF output power including tune-up tolerance 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

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 57 of 161

user is < 5mm, 5mm is used 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 distances \leq 50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and \leq 7.5 for 10-g extremity SAR a. f(GHz) is the RF channel transmit frequency in GHz b. Power and distance are rounded to the nearest mW and mm before calculation c. The result is rounded to one decimal place for comparison d. For < 50 mm distance, we just calculate mW of the exclusion threshold value (3.0) to do compare. This formula is $[3.0] / [\sqrt{f(GHz)}] \cdot [(min. test separation distance, mm)] = exclusion threshold of mW.$ 5. Per KDB 447498 D01, at 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following a. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) (f(MHz)/150)] mW, at 100 MHz to 1500 MHz b. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) \cdot 10] mW at > 1500 MHz and \leq 6 GHz 6. Per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA /HSUPA /DC-HSDPA output power is < 0.25dB higher than RMC12.2Kbps, or reported SAR with RMC 12.2kbps setting is \leq 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 further 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 these configurations is less than 1/4dB higher than those measured at the lowest data rate 8. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. a. When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration. b. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum power and the adjusted SAR is ≤ 1.2 W/kg. output 9. Per KDB 248227 D01 SAR is not required for the following U-NII-1 and U-NII-2A bands conditions. a. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. b. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is \leq 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.

Report No.: SHE20090007-02SE Date: 20

2021-04-09

Page 58 of 161

6.4 SAR Measurement Results

GSM 850

Mode	Method	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head												
		Left Cheek	0	190	836.6	0.05	0.272	33.80	34.20	1.10	0.298	1#
Voice	Without	Left Tilt	0	190	836.6	-0.05	0.158	33.80	34.20	1.10	0.173	
voice	scanner	Right Cheek	0	190	836.6	-0.02	0.221	33.80	34.20	1.10	0.242	
		Right Tilt	0	190	836.6	-0.04	0.142	33.80	34.20	1.10	0.156	
Body-w	orn Acces	sory										
			10	128	824.2	-0.16	0.686	33.72	34.20	1.12	0.766	
	With	Front Side	10	190	836.6	-0.12	0.712	33.80	34.20	1.10	0.781	2#
Voice	scanner		10	251	848.8	-0.18	0.596	33.71	34.20	1.12	0.667	
voice		Back Side	10	190	836.6	-0.01	0.202	33.80	34.20	1.10	0.221	
	Without scanner	Back Side	10	190	836.6	-0.06	0.577	33.80	34.20	1.10	0.633	3#
Hotspo	t											
		Front Side	10	190	836.6	0.01	0.315	30.34	31.00	1.16	0.367	4#
	With	Back Side	10	190	836.6	0.12	0.066	30.34	31.00	1.16	0.077	
	scanner	Left Edge	10	190	836.6	0.04	0.085	30.34	31.00	1.16	0.099	
GPRS 1 TX		Bottom Edge	10	190	836.6	-0.10	0.163	30.34	31.00	1.16	0.190	
1 1 1	Without											
	scanner	Back Side	10	190	836.6	0.02	0.228	30.34	31.00	1.16	0.265	5#

GSM 1900

Mode	Method	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head												
		Left Cheek	0	512	1850.2	-0.010	0.108	30.16	30.50	1.08	0.117	6#
Voice	Without	Left Tilt	0	512	1850.2	-0.140	0.031	30.16	30.50	1.08	0.034	
voice	scanner	Right Cheek	0	512	1850.2	0.110	0.061	30.16	30.50	1.08	0.066	
		Right Tilt	0	512	1850.2	-0.190	0.032	30.16	30.50	1.08	0.035	
Body-w	vorn Acces	sory										
Voice	With	Front Side	10	512	1850.2	0.040	0.406	30.16	30.50	1.08	0.439	7#
voice	scanner	Back Side	10	512	1850.2	-0.100	0.061	30.16	30.50	1.08	0.066	

Report No.:

SHE20090007-02SE

Date:

2021-04-09

Page 59 of 161

	Without scanner	Back Side	10	512	1850.2	-0.100	0.285	30.16	30.50	1.08	0.308	8#
Hotspot	t											
	10/:41-	Front Side	10	512	1850.2	0.050	0.462	26.74	27.00	1.06	0.491	9#
	With	Back Side	10	512	1850.2	0.090	0.050	26.74	27.00	1.06	0.053	
GPRS	scanner	Left Edge	10	512	1850.2	-0.040	0.102	26.74	27.00	1.06	0.108	
1 TX		Bottom Edge	10	512	1850.2	-0.060	0.278	26.74	27.00	1.06	0.295	
	Without scanner	Back Side	10	512	1850.2	-0.030	0.260	26.74	27.00	1.06	0.276	10#
	Scanner	Dack Olde	10	512	1000.2	-0.000	0.200	20.74	27.00	1.00	0.270	10#

Note(s):

- 1. Body-Worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for Body-Worn SAR.
- Justification for reduced test configurations per KDB Publication 941225 D01v03r01: The source-based timeaveraged output power was evaluated for all multi-slot operations. The multi-slot configuration with the highest frame averaged output power was evaluated for SAR.

WCDMA Bar	۱d	II
-----------	----	----

Mode	Method	Position	Dist. (mm)	Ch.	Freq. (MHz)	Pow er Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Powe r (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head		I										
		Left Cheek	0	9538	1907.6	-0.15	0.196	23.22	23.60	1.09	0.214	11#
RMC	Without	Left Tilt	0	9538	1907.6	-0.08	0.069	23.22	23.60	1.09	0.075	
RIVIC	scanner	Right Cheek	0	9538	1907.6	-0.19	0.122	23.22	23.60	1.09	0.133	
		Right Tilt	0	9538	1907.6	-0.16	0.079	23.22	23.60	1.09	0.086	
Body-w	orn Acces	sory & Hotspot										
			10	9262	1852.4	0.04	0.994	22.88	23.60	1.18	1.173	
		Front Side	10	9400	1880.0	0.06	1.020	23.06	23.60	1.13	1.155	
	With		10	9538	1907.6	0.02	1.080	23.22	23.60	1.09	1.179	12#
RMC	scanner	Back Side	10	9538	1907.6	-0.18	0.138	23.22	23.60	1.09	0.151	
		Left Edge	10	9538	1907.6	-0.02	0.297	23.22	23.60	1.09	0.324	
		Bottom Edge	10	9538	1907.6	-0.13	0.599	23.22	23.60	1.09	0.654	
	Without scanner	Back Side	10	9538	1907.6	-0.13	0.571	23.22	23.60	1.09	0.623	13#

WCDMA Band IV

			Dist.		Freq.	Pow	Meas.	Meas.	Max.	Soaling	Report	Meas.
Mode	Method	Position	(mm)	Ch.	(MHz)	er	SAR	Powe	tune-up	Scaling Factor	SAR	No.
			(1111)		(1112)	Drift	1 g	r	Power	Factor	1 g	NO.

Report No.:

SHE20090007-02SE

Date:

2021-04-09

Page 60 of 161

						(dB)	(W/Kg)	(dBm)	(dBm)		(W/Kg)	
Head												
		Left Cheek	0	1312	1712.4	-0.17	0.123	22.90	23.50	1.15	0.141	14#
RMC	Without	Left Tilt	0	1312	1712.4	-0.05	0.067	22.90	23.50	1.15	0.077	
RIVIC	scanner	Right Cheek	0	1312	1712.4	-0.11	0.076	22.90	23.50	1.15	0.087	
		Right Tilt	0	1312	1712.4	0.01	0.070	22.90	23.50	1.15	0.080	
Body-w	orn Acces	sory & Hotspot										
			10	1312	1712.4	0.02	0.891	22.90	23.50	1.15	1.023	
		Front Side	10	1413	1732.6	-0.11	0.884	22.86	23.50	1.16	1.024	
	With		10	1513	1752.6	0.00	0.968	22.79	23.50	1.18	1.140	15#
RMC	scanner	Back Side	10	1312	1712.4	-0.07	0.120	22.90	23.50	1.15	0.138	
RIVIC		Left Edge	10	1312	1712.4	-0.03	0.331	22.90	23.50	1.15	0.380	
		Bottom Edge	10	1312	1712.4	-0.19	0.461	22.90	23.50	1.15	0.529	
	Without scanner	Back Side	10	1312	1712.4	-0.05	0.462	22.90	23.50	1.15	0.530	16#

WCDMA Band V

						Pow	Meas.	Meas.	Max.		Report	
Mode	Method	Position	Dist.	Ch.	Freq.	er	SAR	Powe	tune-up	Scaling	SAR	Meas.
woue	wethou	Position	(mm)	Cn.	(MHz)	Drift	1 g	r	Power	Factor	1 g	No.
						(dB)	(W/Kg)	(dBm)	(dBm)		(W/Kg)	
Head												
		Left Cheek	0	4233	846.6	-0.05	0.339	24.18	24.50	1.08	0.365	17#
RMC	Without	Left Tilt	0	4233	846.6	-0.10	0.200	24.18	24.50	1.08	0.215	
RIVIC	scanner	Right Cheek	0	4233	846.6	-0.11	0.251	24.18	24.50	1.08	0.270	
		Right Tilt	0	4233	846.6	0.05	0.163	24.18	24.50	1.08	0.175	
Body-w	orn Acces	sory & Hotspot										
			10	4132	826.4	-0.10	0.773	23.95	24.30	1.08	0.838	
		Front Side	10	4183	836.6	-0.06	0.844	24.02	24.30	1.07	0.900	
	With		10	4233	846.6	-0.12	0.894	24.18	24.50	1.08	0.962	18#
DMC	scanner	Back Side	10	4233	846.6	-0.06	0.159	24.18	24.50	1.08	0.171	
RMC		Left Edge	10	4233	846.6	0.03	0.265	24.18	24.50	1.08	0.285	
		Bottom Edge	10	4233	846.6	-0.09	0.406	24.03	24.50	1.11	0.452	
	Without scanner	Back Side	10	4233	846.6	-0.09	0.667	24.03	24.50	1.11	0.743	19#

Note(s):

 WCDMA mode in Body SAR was tested under RMC 12.2 kbps without HSPA inactive per KDB Publication 941225 D01v03. HSPA SAR was not required since the average output power of the HSPA subtests was not more than 0.25 dB higher than the RMC level and SAR was less than 1.2 W/kg.

Date: 2021-04-09

Page 61 of 161

Mode	Method	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head														
		Left Cheek	0	18700	1860	1	High	-0.12	0.223	23.53	23.80	1.06	0.237	20#
		Leit Cheek	0	19100	1900	50	Low	0.01	0.184	22.47	23.00	1.13	0.208	
		Left Tilt	0	18700	1860	1	High	-0.08	0.069	23.53	23.80	1.06	0.073	
QPSK	Without		0	19100	1900	50	Low	0.07	0.051	22.47	23.00	1.13	0.058	
QFOR	scanner	Right Cheek	0	18700	1860	1	High	-0.19	0.131	23.53	23.80	1.06	0.139	
		Right Cheek	0	19100	1900	50	Low	-0.20	0.096	22.47	23.00	1.13	0.108	
		Right Tilt	0	18700	1860	1	High	-0.07	0.096	23.53	23.80	1.06	0.139	
		Right hit	0	19100	1900	50	Low	-0.20	0.096	22.47	23.00	1.13	0.108	
Body-	worn Acce	ssory & Hots	pot											
				18700	1860	1	High	0.00	1.240	23.53	23.80	1.06	1.320	
				18900	1880	1	High	0.03	1.260	23.39	23.80	1.10	1.385	21#
				19100	1900	1	High	0.01	1.100	23.29	23.80	1.12	1.237	
		Front Side	10	18700	1860	50	Low	-0.02	1.000	22.01	23.00	1.26	1.256	
				18900	1880	50	Low	0.04	0.913	22.25	23.00	1.19	1.085	
	With			19100	1900	50	Low	0.06	0.805	22.47	23.00	1.13	0.909	
	scanner			19100	1900	100	Low	0.06	0.938	22.40	23.00	1.15	1.077	
QPSK		Back Side	10	18700	1860	1	High	-0.12	0.203	23.53	23.80	1.06	0.216	
		DACK SILLE	10	19100	1900	50	Low	-0.15	0.136	22.47	23.00	1.13	0.154	
		Loft Edge	10	18700	1860	1	High	-0.14	0.303	23.53	23.80	1.06	0.322	
		Left Edge	10	19100	1900	50	Low	-0.16	0.191	22.47	23.00	1.13	0.216	
		Bottom Edge	10	18700	1860	1	High	-0.09	0.710	23.53	23.80	1.06	0.756	
		Bottom Edge	10	19100	1900	50	Low	-0.14	0.450	22.47	23.00	1.13	0.508	
	Without	Back Side	10	18700	1860	1	High	-0.10	0.700	23.53	23.80	1.06	0.745	22#
	Scaner	Dack Side	10	19100	1900	50	Low	-0.11	0.505	22.47	23.00	1.13	0.571	

LTE Band 4 (20MHz Bandwidth)

Report No.:

SHE20090007-02SE

Mode	Method	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head														
		Left Cheek	0	20050	1720	1	Low	-0.11	0.131	22.82	23.50	1.17	0.153	23#
QPSK	Without	Len Cheek	0	20050	1720	50	High	-0.19	0.105	21.73	22.00	1.06	0.112	
QF3N	scanner	Left Tilt	0	20050	1720	1	Low	-0.16	0.062	22.82	23.50	1.17	0.073	
			0	20050	1720	50	High	-0.06	0.049	21.73	22.00	1.06	0.052	

2021-04-09

Page 62 of 161

Date:

		Right Cheek	0	20050	1720	1	Low	-0.18	0.086	22.82	23.50	1.17	0.101	
		Right Cheek	0	20050	1720	50	High	-0.16	0.071	21.73	22.00	1.06	0.076	
		Right Tilt	0	20050	1720	1	Low	-0.10	0.050	22.82	23.50	1.17	0.058	
			0	20050	1720	50	High	-0.13	0.045	21.73	22.00	1.06	0.048	
Body-w	orn Accesso	ory & Hotspot												
				20050	1720	1	Low	-0.07	0.866	22.82	23.50	1.17	1.013	
				20175	1732.5	1	Low	0.02	0.884	22.80	23.50	1.17	1.039	24#
	With	Front Side	10	20300	1745	1	Low	-0.01	0.869	22.73	23.50	1.19	1.038	
				20050	1720	50	High	-0.01	0.619	21.73	22.00	1.06	0.659	
				20050	1720	100	Low	-0.02	0.629	21.75	22.00	1.06	0.666	
	scanner	Back Side	10	20050	1720	1	Low	-0.15	0.093	22.82	23.50	1.17	0.109	
QPSK		Dack Side	10	20050	1720	50	High	0.11	0.080	21.73	22.00	1.06	0.085	
		Left Edge	10	20050	1720	1	Low	-0.01	0.292	22.82	23.50	1.17	0.341	
		Len Euge	10	20050	1720	50	High	-0.01	0.246	21.73	22.00	1.06	0.262	
	Without	Bottom Edge	10	20050	1720	1	Low	-0.13	0.442	22.82	23.50	1.17	0.517	
		Bottom Edge	10	20050	1720	50	High	-0.11	0.370	21.73	22.00	1.06	0.394	
		Back Side	10	20050	1720	1	Low	-0.07	0 .458	22.82	23.50	1.17	0.536	25#
	Scaner	DACK SILLE	10	20050	1720	50	High	-0.09	0.386	21.73	22.00	1.06	0.411	

LTE Band 5 (10MHz Bandwidth)

Report No.:

SHE20090007-02SE

Mode	Method	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head	-		-				-		-					
		Left Cheek	0	20450	829	1	High	0.02	0.274	24.14	24.50	1.09	0.298	26#
		Len Cheek	0	20450	829	25	Mid	-0.14	0.178	23.00	23.50	1.12	0.200	
		Left Tilt	0	20450	829	1	High	-0.02	0.167	24.14	24.50	1.09	0.181	
ODOK	Without	Len mi	0	20450	829	25	Mid	-0.04	0.110	23.00	23.50	1.12	0.123	
QPSK	scanner	Disht Chash	0	20450	829	1	High	-0.17	0.264	24.14	24.50	1.09	0.287	
		Right Cheek	0	20450	829	25	Mid	0.00	0.185	23.00	23.50	1.12	0.208	
		Disché Tilé	0	20450	829	1	High	0.10	0.141	24.14	24.50	1.09	0.153	
		Right Tilt	0	20450	829	25	Mid	-0.06	0.094	23.00	23.50	1.12	0.105	
Body-	worn Acce	ssory & Hots	pot				•			•				
				20450	829	1	High	-0.14	0.899	24.14	24.50	1.09	0.977	27#
				20525	836.5	1	High	-0.07	0.832	24.05	24.50	1.11	0.923	
	With	Front Side	10	20600	844	1	High	-0.04	0.836	24.11	24.50	1.09	0.915	
QPSK	scanner			20450	829	25	Mid	0.04	0.536	23.00	23.50	1.12	0.601	
				20450	829	50	Low	0.00	0.544	23.02	23.50	1.12	0.608	
		Back Side	10	20450	829	1	High	-0.05	0.112	24.14	24.50	1.09	0.122	

Report No.:

SHE20090007-02SE

Date:

2021-04-09

Page 63 of 161

			20450	829	25	Mid	-0.09	0.078	23.00	23.50	1.12	0.088	
	Left Edge	10	20450	829	1	High	-0.08	0.260	24.14	24.50	1.09	0.282	
	Len Luge	10	20450	829	25	Mid	-0.08	0.185	23.00	23.50	1.12	0.208	
	Bottom Edge	10	20450	829	1	High	-0.12	0.365	24.14	24.50	1.09	0.397	
	Bottom Luge	10	20450	829	25	Mid	-0.09	0.255	23.00	23.50	1.12	0.286	
Without	Back Side	10	20450	829	1	High	-0.03	0.648	24.14	24.50	1.09	0.704	28#
Scaner			20450	829	25	Mid	-0.07	0.446	23.00	23.50	1.12	0.500	

LTE Band 7 (20MHz Bandwidth)

Mode	Method	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head				1	1			1	1					
		Left Cheek	0	21100	2535	1	Mid	-0.02	0.266	22.75	23.00	1.06	0.282	29#
		Lon onook		20850	2510	50	High	-0.12	0.197	21.93	22.50	1.14	0.225	
		Left Tilt	0	21100	2535	1	Mid	-0.11	0.102	22.75	23.00	1.06	0.108	
QPSK	Without	Lon The	0	20850	2510	50	High	-0.14	0.073	21.93	22.50	1.14	0.083	
QI OK	scanner	Right Cheek	0	21100	2535	1	Mid	-0.10	0.194	22.75	23.00	1.06	0.205	
		Right Cheek	0	20850	2510	50	High	-0.15	0.162	21.93	22.50	1.14	0.185	
		Right Tilt	0	21100	2535	1	Mid	-0.15	0.130	22.75	23.00	1.06	0.138	
		Right fill	0	20850	2510	50	High	-0.05	0.098	21.93	22.50	1.14	0.112	
Body-	worn Acce	ssory & Hots	pot											
				20850	2510	1	Mid	0.11	0.765	22.69	23.00	1.07	0.822	30#
				21100	2535	1	Mid	0.07	0.755	22.75	23.00	1.06	0.800	
		Front Side	10	21350	2560	1	Mid	0.00	0.735	22.60	23.00	1.10	0.806	
				20850	2510	50	High	0.01	0.561	21.93	22.50	1.14	0.640	
	14/11			20850	2510	100	Low	-0.03	0.681	21.87	22.00	1.03	0.702	
	With	Deals Cide	10	21100	2535	1	Mid	-0.13	0.153	22.75	23.00	1.06	0.162	
QPSK	scanner	Back Side	10	20850	2510	50	High	-0.19	0.142	21.93	22.50	1.14	0.162	
		Laft Estas	10	21100	2535	1	Mid	0.02	0.145	22.75	23.00	1.06	0.154	
		Left Edge	10	20850	2510	50	High	0.01	0.123	21.93	22.50	1.14	0.140	
			10	21100	2535	1	Mid	-0.06	0.415	22.75	23.00	1.06	0.440	
		Bottom Edge	10	20850	2510	50	High	-0.08	0.334	21.93	22.50	1.14	0.381	
	Without	Back Side	10	21100	2535	1	Mid	-0.15	0.476	22.75	23.00	1.06	0.504	31#
	Scaner			20850	2510	50	High	-0.19	0.392	21.93	22.50	1.14	0.447	

Report No.:

SHE20090007-02SE

Date:

2021-04-09

Page 64 of 161

LTE Band 12 (10MHz Bandwidth)

Mode	Method	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head														
		Left Cheek	0	23060	704	1	Low	0.02	0.187	24.29	25.00	1.18	0.220	32#
		Lett Cheek	0	23130	711	25	Low	-0.13	0.141	23.04	23.50	1.11	0.157	
			0	23060	704	1	Low	0.02	0.084	24.29	25.00	1.18	0.099	
QPSK	Without	Left Tilt	0	23130	711	25	Low	-0.17	0.069	23.04	23.50	1.11	0.077	
QPSK	scanner	Distat Chaste	0	23060	704	1	Low	-0.18	0.172	24.29	25.00	1.18	0.203	
		Right Cheek	0	23130	711	25	Low	-0.17	0.139	23.04	23.50	1.11	0.155	
		È	_	23060	704	1	Low	-0.13	0.083	24.29	25.00	1.18	0.098	
		Right Tilt	0	23130	711	25	Low	0.00	0.062	23.04	23.50	1.11	0.069	
Body-v	worn Acce	ssory & Hots	pot											
		E (0)	4.0	23060	704	1	Low	-0.05	0.335	24.29	25.00	1.18	0.394	33#
		Front Side	10	23130	711	25	Low	-0.04	0.212	23.04	23.50	1.11	0.236	
			40	23060	704	1	Low	-0.11	0.117	24.29	25.00	1.18	0.138	
	With	Back Side	10	23130	711	25	Low	-0.10	0.085	23.04	23.50	1.11	0.094	
	scanner		40	23060	704	1	Low	-0.13	0.190	24.29	25.00	1.18	0.224	
QPSK		Left Edge	10	23130	711	25	Low	-0.13	0.147	23.04	23.50	1.11	0.163	
			40	23060	704	1	Low	-0.12	0.145	24.29	25.00	1.18	0.171	
		Bottom Edge	10	23130	711	25	Low	-0.15	0.118	23.04	23.50	1.11	0.131	
	Without	Back Side	10	23060	704	1	Low	0.00	0.218	24.29	25.00	1.18	0.257	34#
	Scaner			23130	711	25	Low	0.08	0.177	23.04	23.50	1.11	0.197	

LTE Band 13 (10MHz Bandwidth)

Mode	Method	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head														
		Loft Chook	0	23230	782	1	Low	0.01	0.241	24.02	24.50	1.12	0.269	35#
		Left Cheek	0	23230	782	25	Low	-0.15	0.178	22.89	23.50	1.15	0.205	
		L oft Tilt	0	23230	782	1	Low	-0.04	0.141	24.02	24.50	1.12	0.157	
QPSK	Without	Left Tilt	0	23230	782	25	Low	-0.11	0.107	22.89	23.50	1.15	0.123	
QF3N	scanner	Dight Chook	0	23230	782	1	Low	-0.10	0.208	24.02	24.50	1.12	0.232	
		Right Cheek	0	23230	782	25	Low	-0.17	0.168	22.89	23.50	1.15	0.193	
		Right Tilt	0	23230	782	1	Low	-0.05	0.112	24.02	24.50	1.12	0.125	
		right fil	U	23230	782	25	Low	-0.05	0.089	22.89	23.50	1.15	0.102	

Report No.:

SHE20090007-02SE

Date:

2021-04-09

Page 65 of 161

Body-	worn Acce	ssory & Hots	pot											
		Front Side	10	23230	782	1	Low	-0.14	0.566	24.02	24.50	1.12	0.632	36#
			10	23230	782	25	Low	-0.08	0.353	22.89	23.50	1.15	0.406	
		Back Side	10	23230	782	1	Low	-0.08	0.121	24.02	24.50	1.12	0.135	
	With	Dack Side	10	23230	782	25	Low	-0.06	0.099	22.89	23.50	1.15	0.114	
	scanner	Left Edge	10	23230	782	1	Low	-0.16	0.204	24.02	24.50	1.12	0.228	
QPSK		Len Luge	10	23230	782	25	Low	-0.10	0.160	22.89	23.50	1.15	0.184	
		Bottom Edge	10	23230	782	1	Low	-0.10	0.225	24.02	24.50	1.12	0.251	
		Bottom Luge	10	23230	782	25	Low	-0.05	0.176	22.89	23.50	1.15	0.203	
	Without	Back Side	10	23230	782	1	Low	-0.01	0.377	24.02	24.50	1.12	0.421	37#
	Scaner			23230	782	25	Low	-0.02	0.289	22.89	23.50	1.15	0.333	

LTE Band 14 (10MHz Bandwidth)

Mode	Method	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head			-					-		-				
		Left Cheek	0	23300	793	1	Low	-0.18	0.235	23.48	24.00	1.13	0.265	38#
		Leit Cheek	0	23300	793	25	Low	0.06	0.166	22.15	22.50	1.08	0.180	
		Left Tilt	0	23300	793	1	Low	-0.03	0.128	23.48	24.00	1.13	0.144	
QPSK	Without	Len mi	0	23300	793	25	Low	0.06	0.098	22.15	22.50	1.08	0.106	
QP5K	scanner	Distat Chaste	0	23300	793	1	Low	-0.15	0.231	23.48	24.00	1.13	0.260	
		Right Cheek	0	23300	793	25	Low	-0.11	0.175	22.15	22.50	1.08	0.190	
				23300	793	1	Low	-0.03	0.126	23.48	24.00	1.13	0.142	
		Right Tilt	0	23300	793	25	Low	-0.01	0.095	22.15	22.50	1.08	0.103	
Body-v	worn Acce	ssory & Hots	pot											
				23300	793	1	Low	-0.04	0.374	23.48	24.00	1.13	0.422	39#
		Front Side	10	23300	793	25	Low	-0.11	0.372	22.15	22.50	1.08	0.403	
				23300	793	1	Low	0.02	0.125	23.48	24.00	1.13	0.141	
	With	Back Side	10	23300	793	25	Low	-0.14	0.094	22.15	22.50	1.08	0.102	
	scanner		10	23300	793	1	Low	-0.17	0.218	23.48	24.00	1.13	0.246	
QPSK		Left Edge	10	23300	793	25	Low	-0.12	0.167	22.15	22.50	1.08	0.181	
			40	23300	793	1	Low	-0.11	0.233	23.48	24.00	1.13	0.263	
		Bottom Edge	10	23300	793	25	Low	-0.07	0.177	22.15	22.50	1.08	0.192	
	Without	Back Side	10	23300	793	1	Low	-0.08	0.354	23.48	24.00	1.13	0.399	40#
	Scaner			23300	793	25	Low	-0.13	0.263	22.15	22.50	1.08	0.285	

Report No.:

SHE20090007-02SE

Date:

2021-04-09

Page 66 of 161

LTE Band 25 (20MHz Bandwidth)

Mode	Method	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head									1				1	
		Left Cheek	0	26590	1905	1	Mid	-0.01	0.244	23.15	23.50	1.08	0.264	41#
		Lon onook		26590	1905	50	Mid	-0.17	0.187	22.19	22.50	1.07	0.201	
		Left Tilt	0	26590	1905	1	Mid	0.04	0.064	23.15	23.50	1.08	0.069	
QPSK	Without	Lon The	U	26590	1905	50	Mid	-0.10	0.056	22.19	22.50	1.07	0.060	
	scanner	Right Cheek	0	26590	1905	1	Mid	-0.12	0.123	23.15	23.50	1.08	0.133	
		Right Cheek	0	26590	1905	50	Mid	-0.13	0.094	22.19	22.50	1.07	0.101	
		Right Tilt	0	26590	1905	1	Mid	-0.13	0.062	23.15	23.50	1.08	0.067	
			0	26590	1905	50	Mid	-0.15	0.061	22.19	22.50	1.07	0.066	
Body-	worn Acce	ssory & Hots	pot											
				26140	1860	1	Mid	-0.02	1.050	22.79	23.50	1.18	1.236	
				26365	1883	1	Mid	-0.05	1.020	23.04	23.50	1.11	1.134	
				26590	1905	1	Mid	-0.04	1.220	23.15	23.50	1.08	1.322	42#
		Front Side	10	26140	1860	50	Mid	0.02	0.890	21.87	22.50	1.16	1.029	
				26365	1883	50	Mid	-0.06	0.814	21.99	22.50	1.12	0.915	
	With			26590	1905	50	Mid	0.01	0.806	22.19	22.50	1.07	0.866	
	scanner			26365	1883	100	Low	0.03	0.800	21.83	22.50	1.17	0.933	
QPSK		Back Side	10	26590	1905	1	Mid	0.13	0.196	23.15	23.50	1.08	0.212	
		Dack Side	10	26590	1905	50	Mid	-0.20	0.161	22.19	22.50	1.07	0.173	
		Left Edge	10	26590	1905	1	Mid	-0.02	0.270	23.15	23.50	1.08	0.293	
		Len Luge	10	26590	1905	50	Mid	-0.01	0.225	22.19	22.50	1.07	0.242	
		Bottom Edge	10	26590	1905	1	Mid	-0.14	0.594	23.15	23.50	1.08	0.003	
			10	26590	1905	50	Mid	-0.18	0.475	22.19	22.50	1.07	0.510	
	Without	Pook Sido	10	26590	1905	1	Mid	-0.02	0.629	23.15	23.50	1.08	0.682	43#
	Scaner	Back Side	10	26590	1905	50	Mid	-0.06	0.517	22.19	22.50	1.07	0.555	

LTE Band 26 Part22 (15MHz Bandwidth)

Mode	Method	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head														
	Without	Left Cheek	0	26965	841.5	1	Low	0.07	0.273	23.69	24.00	1.07	0.293	44#
QPSK		Len Cheek	0	26965	841.5	36	Low	0.08	0.211	22.50	23.00	1.12	0.237	
	scanner	Left Tilt	0	26965	841.5	1	Low	0.01	0.149	23.69	24.00	1.07	0.160	

		26965	841.5	36	Low	-0.04	0.115	22
Right Cheek	0	26965	841.5	1	Low	-0.13	0.227	23
Right Cheek	0	26965	841.5	36	Low	-0.15	0.188	22
		26065	9/1 5	1	Low	0.02	0 152	22

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 67 of 161

								-	-					
				26965	841.5	36	Low	-0.04	0.115	22.50	23.00	1.12	0.129	
		Dight Chook	0	26965	841.5	1	Low	-0.13	0.227	23.69	24.00	1.07	0.244	
		Right Cheek	0	26965	841.5	36	Low	-0.15	0.188	22.50	23.00	1.12	0.211	
		Dischet Tilt	0	26965	841.5	1	Low	-0.03	0.152	23.69	24.00	1.07	0.163	
		Right Tilt	0	26965	841.5	36	Low	-0.03	0.117	22.50	23.00	1.12	0.131	
Body-	worn Acce	ssory & Hots	pot		•									
				26865	831.5	1	Low	-0.08	0.774	23.46	24.00	1.13	0.876	
				26915	836.5	1	Low	-0.11	0.797	23.41	24.00	1.15	0.913	
		Front Side	10	26965	841.5	1	Low	-0.07	0.804	23.69	24.00	1.07	0.863	45#
				26965	841.5	36	Low	-0.10	0.637	22.50	23.00	1.12	0.715	
	With			26965	841.5	75	Low	-0.09	0.620	22.50	23.00	1.12	0.696	
		Back Side	10	26965	841.5	1	Low	-0.11	0.111	23.69	24.00	1.07	0.119	
QPSK	scanner	Dack Side	10	26965	841.5	36	Low	-0.09	0.088	22.50	23.00	1.12	0.099	
		Left Edge	10	26965	841.5	1	Low	-0.15	0.253	23.69	24.00	1.07	0.272	
		Len Euge	10	26965	841.5	36	Low	-0.17	0.202	22.50	23.00	1.12	0.227	
		Bottom Edge	10	26965	841.5	1	Low	-0.11	0.346	23.69	24.00	1.07	0.372	
		BOLLOIN Edge	10	26965	841.5	36	Low	-0.10	0.283	22.50	23.00	1.12	0.318	
	Without	Back Side	10	26965	841.5	1	Low	-0.14	0.572	23.69	24.00	1.07	0.614	46#
	Scaner			26965	841.5	36	Low	-0.15	0.440	22.50	23.00	1.12	0.494	

LTE Band 26 Part90 (10MHz Bandwidth)

Mode	Method	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head	-		-				-							
		Left Cheek	0	26740	819	1	Low	-0.16	0.204	23.29	23.60	1.07	0.219	47#
		Left Cheek	0	26740	819	25	Mid	0.08	0.186	22.18	22.50	1.08	0.200	
			0	26740	819	1	Low	0.01	0.143	23.29	23.60	1.07	0.154	
QPSK	Without	Left Tilt	0	26740	819	25	Mid	-0.04	0.105	22.18	22.50	1.08	0.113	
QPSK	scanner	Distat Chaste	0	26740	819	1	Low	-0.13	0.197	23.29	23.60	1.07	0.212	
		Right Cheek	0	26740	819	25	Mid	-0.09	0.165	22.18	22.50	1.08	0.178	
		Diaht Tilt	0	26740	819	1	Low	-0.10	0.152	23.29	23.60	1.07	0.163	
		Right Tilt	0	26740	819	25	Mid	-0.13	0.106	22.18	22.50	1.08	0.114	
Body-	worn Acce	ssory & Hots	pot											
		Front Cide	10	26740	819	1	Low	-0.10	0.692	23.29	23.60	1.07	0.743	48#
	\\/;+h	Front Side	10	26740	819	25	Mid	-0.12	0.597	22.18	22.50	1.08	0.643	
QPSK	With	Dools Side	10	26740	819	1	Low	0.14	0.099	23.29	23.60	1.07	0.106	
	scanner	Back Side	10	26740	819	25	Mid	0.11	0.083	22.18	22.50	1.08	0.089	
		Left Edge	10	26740	819	1	Low	-0.16	0.241	23.29	23.60	1.07	0.259	

Report No.:

SHE20090007-02SE

Date:

2021-04-09

Page 68 of 161

ſ				26740	819	25	Mid	0.15	0.178	22.18	22.50	1.08	0.192	
		Bottom Edge	10	26740	819	1	Low	0.12	0.324	23.29	23.60	1.07	0.348	
		Bottom Luge	10	26740	819	25	Mid	0.09	0.267	22.18	22.50	1.08	0.287	
	Without	Back Side	10	26740	819	1	Low	0.00	0.407	23.29	23.60	1.07	0.437	49#
	Scaner		.0	26740	819	25	Mid	0.13	0.346	22.18	22.50	1.08	0.372	

LTE Band 38 (20MHz Bandwidth)

Mode	Method	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head														
		Left Cheek	0	38150	2610	1	Mid	-0.13	0.187	23.30	24.00	1.17	0.220	50#
		Left Cheek	0	38150	2610	50	Mid	-0.15	0.149	22.15	22.50	1.08	0.162	
		Left Tilt	0	38150	2610	1	Mid	0.00	0.050	23.30	24.00	1.17	0.059	
QPSK	Without	Left Hit	0	38150	2610	50	Mid	-0.13	0.041	22.15	22.50	1.08	0.044	
QP3N	scanner	Disht Chask	0	38150	2610	1	Mid	-0.17	0.118	23.30	24.00	1.17	0.139	
		Right Cheek	0	38150	2610	50	Mid	0.12	0.093	22.15	22.50	1.08	0.101	
		Dischet Tilt	0	38150	2610	1	Mid	-0.16	0.062	23.30	24.00	1.17	0.073	
		Right Tilt	0	38150	2610	50	Mid	-0.15	0.050	22.15	22.50	1.08	0.054	
Body-v	worn Acce	ssory & Hots	pot											
		Front Cide	10	38150	2610	1	Mid	-0.02	0.484	23.30	24.00	1.17	0.569	51#
		Front Side	10	38150	2610	50	Mid	-0.10	0.391	22.15	22.50	1.08	0.424	
		De els Oiste	10	38150	2610	1	Mid	-0.12	0.100	23.30	24.00	1.17	0.117	
	With	Back Side	10	38150	2610	50	Mid	-0.18	0.079	22.15	22.50	1.08	0.086	
	scanner	Laft Edua	10	38150	2610	1	Mid	-0.09	0.082	23.30	24.00	1.17	0.096	
QPSK		Left Edge	10	38150	2610	50	Mid	-0.13	0.067	22.15	22.50	1.08	0.073	
		Dettern Educ	10	38150	2610	1	Mid	-0.07	0.326	23.30	24.00	1.17	0.383	
		Bottom Edge	10	38150	2610	50	Mid	-0.12	0.259	22.15	22.50	1.08	0.281	
	Without	Back Side	10	38150	2610	1	Mid	-0.15	0.269	23.30	24.00	1.17	0.316	52#
	Scaner		-	38150	2610	50	Mid	-0.16	0.213	22.15	22.50	1.08	0.231	

LTE Band 41 (20MHz Bandwidth)

Mode	Method	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head														
QPSK	Without	Left Cheek	0	41490	2680	1	Mid	-0.19	0.077	24.42	25.00	1.14	0.088	53#

Report No.:

SHE20090007-02SE

2021-04-09

Page 69 of 161

	scanner			41490	2680	50	Mid	0.10	0.062	24.44	25.00	1.14	0.071	
		Left Tilt	0	41490	2680	1	Mid	0.00	0.019	24.42	25.00	1.14	0.022	
			U	41490	2680	50	Mid	-0.19	0.015	24.44	25.00	1.14	0.017	
		Right Cheek	0	41490	2680	1	Mid	0.10	0.074	24.42	25.00	1.14	0.085	
		Right Cheek	0	41490	2680	50	Mid	-0.14	0.058	24.44	25.00	1.14	0.066	
		Right Tilt	0	41490	2680	1	Mid	-0.16	0.044	24.42	25.00	1.14	0.050	
		rught filt	U	41490	2680	50	Mid	-0.12	0.034	24.44	25.00	1.14	0.039	
Body-	worn Acce	ssory & Hots	pot										-	-
		Front Side	10	41490	2680	1	Mid	0.09	0.301	24.42	25.00	1.14	0.344	54#
			10	41490	2680	50	Mid	-0.05	0.201	24.44	25.00	1.14	0.229	
		Back Side	10	41490	2680	1	Mid	0.09	0.051	24.42	25.00	1.14	0.058	
	With		10	41490	2680	50	Mid	-0.12	0.039	24.44	25.00	1.14	0.044	
0.001/	scanner	Left Edge	10	41490	2680	1	Mid	0.06	0.043	24.42	25.00	1.14	0.049	
QPSK		Len Luge	10	41490	2680	50	Mid	0.02	0.037	24.44	25.00	1.14	0.042	
		Bottom Edge	10	41490	2680	1	Mid	-0.05	0.215	24.42	25.00	1.14	0.246	
	Without		10	41490	2680	50	Mid	-0.07	0.171	24.44	25.00	1.14	0.195	
		Back Side	10	41490	2680	1	Mid	-0.15	0.158	24.42	25.00	1.14	0.181	55#
	Scaner			41490	2680	50	Mid	-0.14	0.130	24.44	25.00	1.14	0.148	

LTE Band 66(20MHz Bandwidth)

Mode	Method	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head			-											
		Left Cheek	0	132072	1720	1	Low	0.07	0.166	23.23	23.50	1.06	0.177	56#
		Leit Cheek	0	132072	1720	50	Low	-0.13	0.103	20.97	21.50	1.13	0.116	
		L oft Tilt	0	132072	1720	1	Low	-0.07	0.066	23.23	23.50	1.06	0.070	
QPSK	Without	Left Tilt	0	132072	1720	50	Low	0.04	0.040	20.97	21.50	1.13	0.045	
QP3N	scanner	Right Cheek	0	132072	1720	1	Low	-0.14	0.076	23.23	23.50	1.06	0.081	
			0	132072	1720	50	Low	-0.10	0.047	20.97	21.50	1.13	0.053	
		Right Tilt	0	132072	1720	1	Low	-0.08	0.056	23.23	23.50	1.06	0.060	
				132072	1720	50	Low	-0.01	0.035	20.97	21.50	1.13	0.040	
Body-v	worn Acce	ssory & Hots	pot											
				132072	1720	1	Low	0.09	0.964	23.23	23.50	1.06	1.026	
	14/11			132322	1745	1	Low	-0.02	0.883	23.09	23.50	1.10	0.970	
ODSK	With	Front Side	10	132572	1770	1	Low	0.03	1.040	22.91	23.50	1.15	1.191	57#
QPSK	scanner			132072	1720	50	Low	0.00	0.532	20.97	21.50	1.13	0.601	
				132072	1720	100	Low	-0.03	0.556	20.97	21.50	1.13	0.628	
		Back Side	10	132072	1720	1	Low	-0.21	0.149	23.23	24.00	1.19	0.178	

Report No.:

SHE20090007-02SE

Date:

2021-04-09

Page 70 of 161

			132072	1720	50	Low	-0.19	0.096	20.97	21.50	1.13	0.108	
	Left Edge	10	132072	1720	1	Low	0.03	0.341	23.23	24.00	1.19	0.407	
	Len Luge	10	132072	1720	50	Low	0.00	0.211	20.97	21.50	1.13	0.238	
	Bottom Edge Back Side	10 10	132072	1720	1	Low	-0.18	0.470	23.23	24.00	1.19	0.561	
			132072	1720	50	Low	-0.20	0.296	20.97	21.50	1.13	0.334	
Without			132072	1720	1	Low	-0.09	0.520	23.23	24.00	1.19	0.621	58#
Scaner			132072	1720	50	Low	-0.11	0.328	20.97	21.50	1.13	0.371	

Note(s):

 LTE Considerations: LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r05.

2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results.

WLAN 2.4 GHz

Mod e	Method	Position	Dist. (mm)	Ch	Freq. (MHz)	Pow er Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Duty Cycle (%)	Duty Cycle Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head														
	\\/:+h	Left Cheek	0	1	2412	0.07	0.179	12.41	12.80	1.09	98.22	1.02	0.196	59#
802	With	Left Tilt	0	1	2412	-0.12	0.105	12.41	12.80	1.09	98.22	1.02	0.115	
.11b	scanner	Right Cheek	0	1	2412	-0.07	0.111	12.41	12.80	1.09	98.22	1.02	0.121	
		Right Tilt	0	1	2412	-0.07	0.080	12.41	12.80	1.09	98.22	1.02	0.088	
Body	-worn Acc	essory & Hot	spot											
	MCIL	Front Side	10	1	2412	-0.16	0.109	12.41	12.80	1.09	98.22	1.02	0.119	60#
	With	Back Side	10	1	2412	-0.14	0.040	12.41	12.80	1.09	98.22	1.02	0.044	
802	scanner	Right Edge	10	1	2412	0.13	0.043	12.41	12.80	1.09	98.22	1.02	0.047	
.11b		Top Edge	10	1	2412	-0.12	0.052	12.41	12.80	1.09	98.22	1.02	0.057	
	Without Scaner	Back Side	10	1	2412	0.20	0.109	12.41	12.80	1.09	98.22	1.02	0.119	61#

WLAN 5.2 GHz

Mode	Meth od	Position	Dist. (mm)	Ch	Freq. (MHz)	Pow er Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Duty Cycle (%)	Duty Cycle Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head														
000 44	With	Left Cheek	0	44	5220	0.16	0.032	11.85	12.00	1.04	85.46	1.17	0.033	
802.11ac (VHT20)	scan	Left Tilt	0	44	5220	0.10	0.031	11.85	12.00	1.04	85.46	1.17	0.032	
(VH120)	ner	Right Cheek	0	44	5220	0.14	0.03	11.85	12.00	1.04	85.46	1.17	0.031	

Report No.:

SHE20090007-02SE

Date:

2021-04-09

Page 71 of 161

		Right Tilt	0	44	5220	-0.15	0.037	11.85	12.00	1.04	85.46	1.17	0.038	62#
Body-wo	orn Acc	essory & Hot	spot											
	With	Front Side	10	44	5220	0.18	0.027	11.85	12.00	1.04	85.46	1.17	0.028	63#
	scan	Back Side	10	44	5220	0.19	0.011	11.85	12.00	1.04	85.46	1.17	0.011	
	ner	RightEdge	10	44	5220	0.18	0.021	11.85	12.00	1.04	85.46	1.17	0.022	
802.11ac		Top Edge	10	44	5220	0.18	0.023	11.85	12.00	1.04	85.46	1.17	0.024	
(VHT20)	With													
	out	Back Side	10	44	5220	0.15	0.039	11.85	12.00	1.04	85.46	1.17	0.040	64#
	Sca	Datik Olde	10		5220	0.15	0.009	11.05	12.00	1.04	00.40	1.17	0.040	04#
	ner													

WLAN 5.8 GHz

Mode	Meth od	Position	Dist. (mm)	Ch.	Freq. (MHz)	Pow er Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Duty Cycle (%)	Duty Cycle Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head														
000.44	With	Left Cheek	0	165	5825	0.13	0.035	11.77	12.00	1.05	86.10	1.16	0.037	
802.11	scan	Left Tilt	0	165	5825	-0.11	0.039	11.77	12.00	1.05	86.10	1.16	0.041	
ac(VH T20)	ner	Right Cheek	0	165	5825	0.19	0.04	11.77	12.00	1.05	86.10	1.16	0.042	
120)		Right Tilt	0	165	5825	0.14	0.048	11.77	12.00	1.05	86.10	1.16	0.051	65#
Body-v	vorn Ao	cessory & Ho	otspot											
	With	Front Side	10	165	5825	0.16	0.042	11.77	12.00	1.05	86.10	1.16	0.044	66#
	scan	Back Side	10	165	5825	0.18	0.018	11.77	12.00	1.05	86.10	1.16	0.019	
802.11	ner	Right Edge	10	165	5825	0.15	0.027	11.77	12.00	1.05	86.10	1.16	0.028	
ac(VH		Top Edge	10	165	5825	0.17	0.038	11.77	12.00	1.05	86.10	1.16	0.040	
T20)	With													
120)	out	Back Side	10	165	5825	0.18	0.032	11.77	12.00	1.05	86.10	1.16	0.034	67#
	Sca	Dack Side	10	105	5025	0.10	0.032	11.77	12.00	1.05	00.10	1.10	0.034	01#
	ner													

Note(s):

- 1. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
 - a. When the reported SAR of the highest measured maximum output power channel for the exposure configuration is \leq 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
 - b. 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 \leq 1.2 W/kg.
- 2. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order

Report No.: SHE20090007-02SE

Date: 2

2021-04-09

Page 72 of 161

modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.

- 3. Per KDB 248227 D01 5G WLAN Subsequent Test Configuration Procedures SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units.
 - a. When SAR test exclusion provisions of KDB Publication 447498 D01 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
 - b. When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

General Note(s):

- The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Publication 865664 D01v01r04 and FCC KDB Publication 447498 D01v06.
- 2. All modes of operation were investigated, and worst-case results are reported.
- 3. The EUT is tested 2nd hot-spot peak, if it is less than 2 dB below the highest peak.
- 4. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
- Per FCC KDB Publication 648474 D04v01r03, body worn SAR was evaluated without a headset connected to the device. Since the standalone reported SAR was ≤1.2 W/kg, no additional body worn SAR evaluations using a headset cable were required.
- 6. Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than 0.8 W/kg.
- 7. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is>1/2 dB, instead of the middle channel, the highest output power channel must be used.

Report No.:

SHE20090007-02SE

Date:

2021-04-09

Page 73 of 161

Bluetooth

Mode	Met hod	Position	Di st. (m m)	Ch.	Freq. (MHz)	Pow er Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Duty Cycle (%)	Duty Cycle Factor	Report SAR 1 g (W/Kg)	Meas. No.
Head	Head													
	With	Left Cheek	0	39	2441	-0.12	0.124	10.11	10.50	1.09	100	1.00	0.136	68#
EDR	scan	Left Tilt	0	39	2441	-0.11	0.067	10.11	10.50	1.09	100	1.00	0.073	
EDR	ner	Right Cheek	0	39	2441	-0.11	0.037	10.11	10.50	1.09	100	1.00	0.040	
		Right Tilt	0	39	2441	-0.17	0.027	10.11	10.50	1.09	100	1.00	0.030	
Body-w	vorn Ac	cessory & Hot	spot											
	With	Front Side	10	39	2441	-0.07	0.026	10.11	10.50	1.09	100	1.00	0.028	69#
	scan	Back Side	10	39	2441	0.08	0.006	10.11	10.50	1.09	100	1.00	0.007	
	ner	Right Edge	10	39	2441	0.07	0.017	10.11	10.50	1.09	100	1.00	0.019	
EDR		Top Edge	10	39	2441	0.11	0.02	10.11	10.50	1.09	100	1.00	0.022	
LDR	With													
	out	Back Side	10	39	2441	-0.17	0.032	10.11	10.50	1.09	100	1.00	0.035	70#
	Sca	Dack Olde	10	55	2441	-0.17	0.002	10.11	10.00	1.03	100	1.00	0.000	10#
	ner													

General Note(s):

- 1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Publication 865664 D01v01r04 and FCC KDB Publication 447498 D01v06.
- All modes of operation were investigated, and worst-case results are reported. 2.
- The EUT is tested 2nd hot-spot peak, if it is less than 2 dB below the highest peak. 3.
- 4. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
- 5. Per FCC KDB Publication 648474 D04v01r03, body worn SAR was evaluated without a headset connected to the device. Since the standalone reported SAR was ≤1.2 W/kg, no additional body worn SAR evaluations using a headset cable were required.
- 6. Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than 0.8 W/kg.
- 7. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is>1/2 dB, instead of the middle channel, the highest output power channel must be used

Date:

Report No.: SHE20090007-02SE

2021-04-09

Page 74 of 161

6.5 SAR Measurement Variability

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through
 4) do not apply.
- 2) When the original highest measured SAR is \geq 0.80 W/kg, repeat that measurement once.
- 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 ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

Frequency band	Test Position	Mode	Ch.	Original 1g SAR (W/kg)	1st Repeated 1g SAR (W/kg)	Largest to Smallest SAR Ratio
GSM 850	Front	Voice	190	0.712	0.711	1.00
WCDMA B2	Front	RMC	9538	1.080	1.130	1.05
WCDMA B4	Front	RMC	1513	0.968	1.060	1.10
WCDMA B4	Front	RMC	4233	0.894	0.903	1.01
LTE B2	Front	QPSK	18900	1.260	1.240	1.02
LTE B2	Front	QPSK	18700	1.000	0.999	1.00
LTE B4	Front	QPSK	20175	0.884	0.870	1.02
LTE B5	Front	QPSK	20450	0.899	0.822	1.09
LTE B7	Front	QPSK	20850	0.765	0.757	1.011
LTE B25	Front	QPSK	26590	1.220	1.150	1.061
LTE B25	Front	QPSK	26140	0.890	0.885	1.006

Note(s):

1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20.

6.6 Standalone SAR Test Exclusion Considerations and Estimated SAR

KDB 447498 D01v06 General RF Exposure Guidance v06, introduces a new formula for calculating the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$$SPLSR = (SAR_1 + SAR_2)^{1.5} / R_i$$

Where:

SAR₁ is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR₂ is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the

Date:

Report No.: SHE20090007-02SE

-02SE

2021-04-09

Page 75 of 161

same test operating mode and exposure condition as the first

R_iis the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$

A new threshold of 0.04 is also introduced in the draft KDB. Thus, in order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

 $(SAR_1 + SAR_2)^{1.5} / R_i < 0.04$

6.7 Simultaneous Transmission SAR Considerations

Sum of the SAR for GSM + WLAN & Bluetooth

	Simulta	neous Transmi	Max	SPLSR			
Condition	GSM	WLAN DTS Band	WLAN UNII Band	Bluetooth	Σ 1-g SAR (W/Kg)	(Yes/ No)	
Head	0.298	0.196	0.051	0.136	0.494	No	
Body-Worn	0.781	0.119	0.044	0.035	0.900	No	
Hotspot	0.491	0.119	0.044	0.035	0.610	No	

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

	Simulta	neous Transmi	Max	SPLSR			
Condition	WCDMA	WLAN DTS Band	WLAN UNII Band	Bluetooth	Σ 1-g SAR (W/Kg)	(Yes/ No)	
Head	0.365	0.196	0.051	0.136	0.561	No	
Body-Worn	1.179	0.119	0.044	0.035	1.298	No	
Hotspot	1.179	0.119	0.044	0.035	1.298	No	

Sum of the SAR for WCDMA + WLAN & Bluetooth

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

	Simulta	neous Transmi	Max	SPLSR			
Condition	LTE	WLAN DTS Band	WLAN UNII Band	Bluetooth	Σ 1-g SAR (W/Kg)	(Yes/ No)	
Head	0.298	0.196	0.051	0.136	0.494	No	
Body-Worn	1.385	0.119	0.044	0.035	1.504	No	
Hotspot	1.385	0.119	0.044	0.035	1.504	No	

Sum of the SAR for LTE + WLAN & Bluetooth

Conclusion:

Report No.: SHE20090007-02SE Date:

2021-04-09

Page 76 of 161

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

Report No.: SHE20090007-02SE Date:

2021-04-09

Page 77 of 161

7 Appendixes

7.1 Liquid depth



7.2 Sample and Set-up Photos



Front of the sample

Date:

2021-04-09

Page 78 of 161



Back of the sample



Right Touch

Report No.:

SHE20090007-02SE

Date:

TEST REPORT

Report No.:

SHE20090007-02SE

2021-04-09

Page 79 of 161



Right Tilt



Left Touch

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 80 of 161



Left Tilt



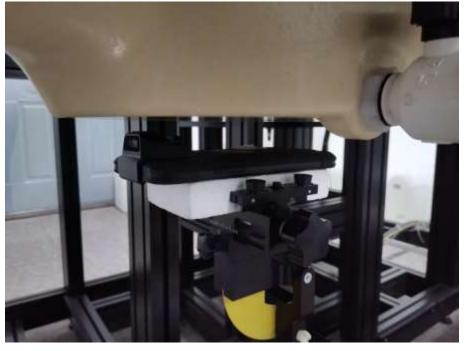
Front- 10mm With scanner

Date:

Report No.: SHE20090007-02SE

2021-04-09

Page 81 of 161



Back - 10mm With scanner



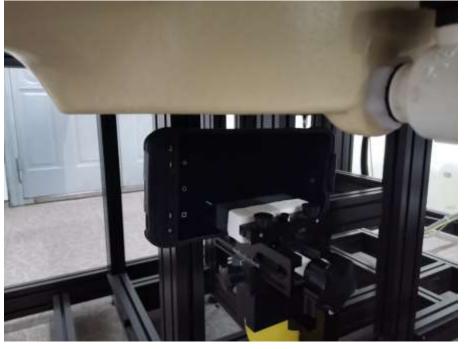
Back - 10mm Without scanner

Date:

SHE20090007-02SE

2021-04-09

Page 82 of 161



Left - 10mm With scanner



Right - 10mm With scanner

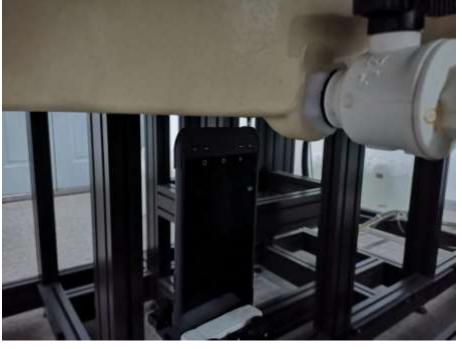
Report No.:

Report No.: SHE20090007-02SE

Date:

2021-04-09

Page 83 of 161



Bottom - 10mm With scanner



Top - 10mm With scanner

Report No.: SHE20090007-02SE Date: 2021-04-09

Page 84 of 161

7.3 System Verification Plots

System Validation for 750MHz Head _2021-01-23

Measurement Report for D750V2 SN1055, FRONT, D750, UID 0 -, Channel 50 (750.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D750V2 SN1055,	180.0 x 100.0 x 330.0	/	Phone

Exposure Conditions

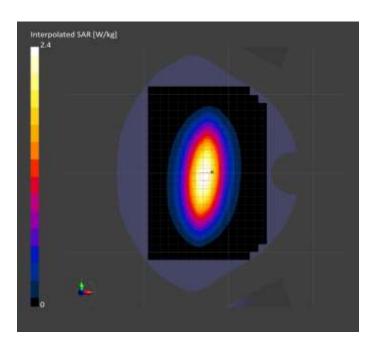
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	D750	CW,	750.0,	10.16	0.910	42.838
HSL	15.00		0	50			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 220.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	2.10	2.16
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	1.42	1.39
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.04	0.00
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		17.1
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		63.0



Report No.: SHE20090007-02SE Date:

2021-04-09

Page 85 of 161

System Validation for 835MHz Head _2021-01-31

Measurement Report for D835V2 SN4d061, FRONT, D835, UID 0 -, Channel 50 (835.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D835V2 SN4d061,	160.0 x 120.0 x 340.0	/	Phone

Exposure Conditions

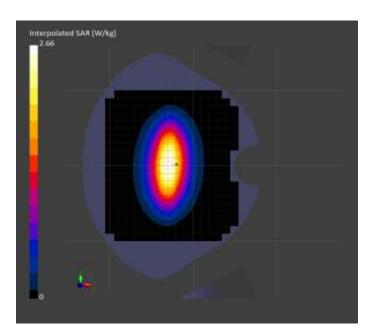
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	D835	CW,	835.0,	9.79	0.916	42.619
HSL	15.00		0	50			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Measurement Results

160.0 x 200.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	2.32	2.34
10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	1.53	1.49
3.0	1.4	Power Drift [dB]	-0.06	-0.00
VMS + 6p	VMS + 6p	M2/M1 [%]		18.6
Measured	Measured	Dist 3dB Peak [mm]		61.8
	3.0 VMS + 6p	3.0 1.4 VMS + 6p VMS + 6p	3.0 1.4 Power Drift [dB] VMS + 6p VMS + 6p M2/M1 [%]	3.0 1.4 Power Drift [dB] -0.06 VMS + 6p VMS + 6p M2/M1 [%]



Report No.: SHE20090007-02SE Date:

2021-04-09

Page 86 of 161

System Validation for 1800MHz Head _2021-01-28

Measurement Report for D1800V2 SN1d148, FRONT, D1800, UID 0 -, Channel 50 (1800.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D1800V2 SN1d148,	100.0 x 74.0 x 300.0	/	Phone

Exposure Conditions

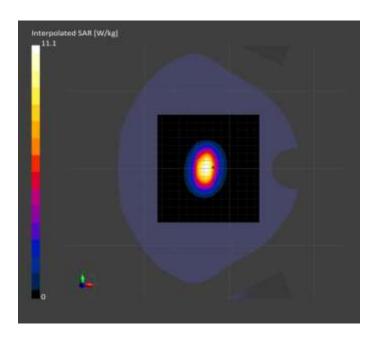
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	D1800	CW,	1800.0,	8.45	1.387	41.885
HSL	10 mm		0	50			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 140.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	9.09	9.07
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	4.87	4.71
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.12	0.00
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		10.0
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		53.0



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 87 of 161

System Validation for 1900MHz Head _2021-01-21

Measurement Report for D1900V2 SN5d092, FRONT, D1900, UID 0 -, Channel 50 (1900.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D1900V2 SN5d092,	100.0 x 68.0 x 300.0	/	Phone

Exposure Conditions

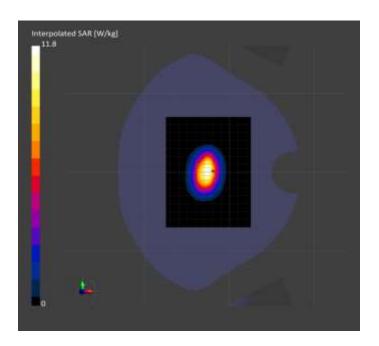
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	D1900	CW,	1900.0,	8.07	1.433	41.326
HSL	10 mm		0	50			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Measurement Results

•					
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	9.44	9.80
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	4.99	5.00
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.10	0.00
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		9.0
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		52.3



Report No.: SHE20090007-02SE Date:

2021-04-09

Page 88 of 161

System Validation for 2450MHz Head _2021-02-03

Measurement Report for D2450V2 SN723, FRONT, D2450, UID 0 -, Channel 50 (2450.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D2450V2 SN723,	100.0 x 52.0 x 290.0	/	Phone

Exposure Conditions

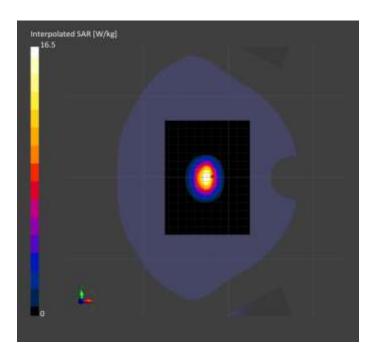
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	D2450	CW,	2450.0,	7.65	1.729	38.906
HSL	10.00		0	50			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Measurement Results

•					
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	12.6	13.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	5.95	5.97
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.10	0.00
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		9.0
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		48.4



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 89 of 161

System Validation for 2600MHz Head _2021-01-29

Measurement Report for D2600V2 SN1142, FRONT, D2600, UID 0 -, Channel 50 (2600.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D2600V2 SN1142,	100.0 x 50.0 x 290.0	/	Phone

Exposure Conditions

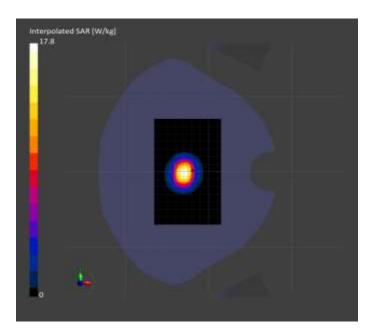
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	D2600	CW,	2600.0,	7.45	2.032	40.573
HSL	10.00		0	50			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Measurement Results

•					
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 140.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	14.0	13.9
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	6.52	6.20
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.16	-0.01
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		9.0
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		46.6



Report No.: SHE20090007-02SE Date:

2021-04-09

Page 90 of 161

System Validation for 5200MHz Head _2021-02-04

Measurement Report for D5GHzV2 SN1061, FRONT, D5GHz, UID 0 -, Channel 20 (5200.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D5GHzV2 SN1061,	80.0 x 20.0 x 300.0	/	Phone

Exposure Conditions

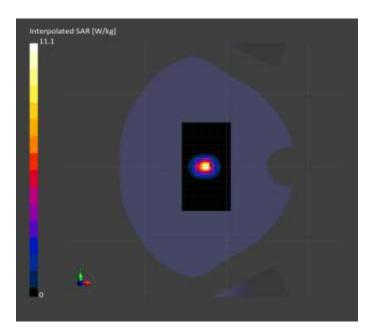
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	D5GHz	CW,	5200.0,	5.53	4.84	34.555
HSL	10.00		0	20			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	22.0 x 22.0 x 22.0	psSAR1g [W/Kg]	6.84	7.53
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/Kg]	2.00	2.16
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.13	-0.11
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		7.2
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		66.9



Report No.: SHE20090007-02SE Date:

2021-04-09

Page 91 of 161

System Validation for 5800MHz Head _2021-02-04

Measurement Report for D5GHzV2 SN1061, FRONT, D5GHz, UID 0 -, Channel 80 (5800.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D5GHzV2 SN1061,	80.0 x 20.0 x 300.0	/	Phone

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	D5GHz	CW,	5800.0,	4.75	5.149	34.935
HSL	10.00		0	80			

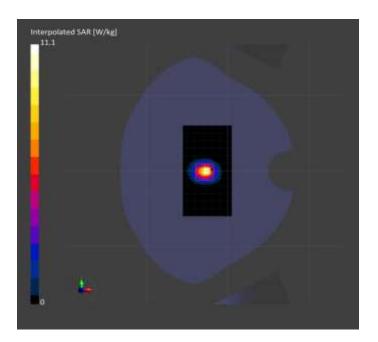
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Area Scan	Zoom Scan
7.18	8.14
2.14	2.29
-0.13	-0.08
	7.2
	63.1
	7.18 2.14



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 92 of 161

7.4 Highest SAR Test Plots

Meas.1 Measurement Report for RS60, CHEEK, GSM 850, UID 10024 DAC, Channel 190 (836.6MHz) Device under Test Properties

Name, Manufac	turer Dir	mensions [mm]	IMEI	DUT Type		
RS60, 193.0 x 93.0 x 16.5		5.5	015850000001942	Phone			
Exposure Co	onditions						
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	GSM 850	GSM,	836.6,	9.79	0.933	42.266
HSL	0.00		10024-DAC	190			

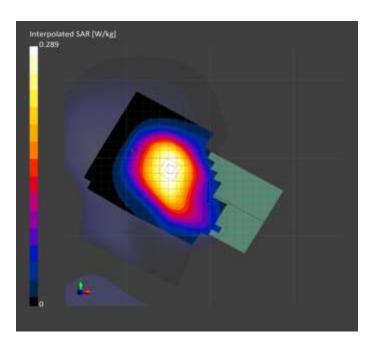
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.253	0.272
psSAR10g [W/Kg]	0.177	0.211
Power Drift [dB]	-0.16	0.05
M2/M1 [%]		inf
Dist 3dB Peak [mm]		78.0



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 93 of 161

Meas.2 Measurement Report for RS60, FRONT, GSM 850, UID 10021 DAC, Channel 190 (836.6MHz) With Scaner Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type	
RS60,	193.0 x 93.0 x 16.5	015850000001942	Phone	
Experies Conditions				

Exposure Conditions

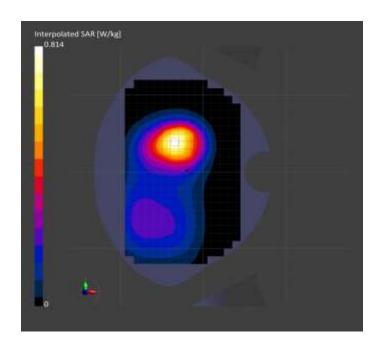
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	GSM 850	GSM,	836.6,	9.79	0.933	42.266
HSL	10.00		10021-DAC	190			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Measurement Results

	Area Scan	Zoom Scan		Area Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.700
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.461
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.15
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]	
Scan Method	Measured	Measured	Dist 3dB Peak [mm]	



Report No.: SHE20090007-02SE Date: 202

2021-04-09

Page 94 of 161

Meas.3 Measurement Report for RS60, BACK, GSM 850, UID 10021 DAC, Channel 190 (836.6MHz) Without Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000001942	Phone

Exposure Conditions

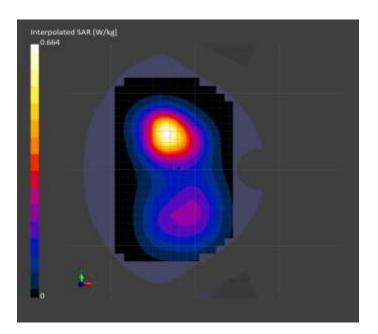
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	GSM 850	GSM,	836.6,	9.79	0.933	42.266
HSL	10.00		10021-DAC	190			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Measurement Results

Area Scan	Zoom Scan		Area Scan	Zoom Scan
140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.573	0.577
10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.378	0.365
3.0	1.4	Power Drift [dB]	-0.10	-0.06
VMS + 6p	VMS + 6p	M2/M1 [%]		19.8
Measured	Measured	Dist 3dB Peak [mm]		62.2
	140.0 x 240.0 10.0 x 10.0 3.0 VMS + 6p	140.0 x 240.0 30.0 x 30.0 x 30.0 10.0 x 10.0 5.0 x 5.0 x 5.0 3.0 1.4 VMS + 6p VMS + 6p	140.0 x 240.0 30.0 x 30.0 x 30.0 psSAR1g [W/Kg] 10.0 x 10.0 5.0 x 5.0 x 5.0 psSAR10g [W/Kg] 3.0 1.4 Power Drift [dB] VMS + 6p VMS + 6p M2/M1 [%]	140.0 x 240.0 30.0 x 30.0 x 30.0 psSAR1g [W/Kg] 0.573 10.0 x 10.0 5.0 x 5.0 x 5.0 psSAR10g [W/Kg] 0.378 3.0 1.4 Power Drift [dB] -0.10 VMS + 6p VMS + 6p M2/M1 [%] 0.378



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 95 of 161

Meas.4 Measurement Report for RS60, FRONT, GPRS 850, UID 10023 DAC, Channel 190 (836.6MHz) With Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000001942	Phone

Exposure Conditions

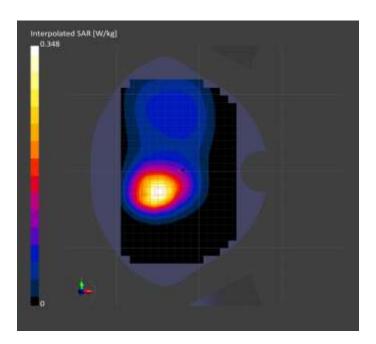
Phantom	Position, Test	Band	Group, UID	Frequency [MHz], Channel Number	Conversion	TSL Conductivity	TSL Rozmittivity
Section, TSL	Distance [mm]	GSM 850	GSM.	836.6.	Factor 9.79	0.933	Permittivity
Flat, HSL	10.00	G3W 650	10023-DAC	838.0, 190	9.79	0.933	42.200

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.303	0.315
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.200	0.194
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	0.05	0.01
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		17.7
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		59.3



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 96 of 161

Meas.5 Measurement Report for RS60, BACK, GPRS 850, UID 10023 DAC, Channel 190 (836.6MHz) Without Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000001942	Phone

Exposure Conditions

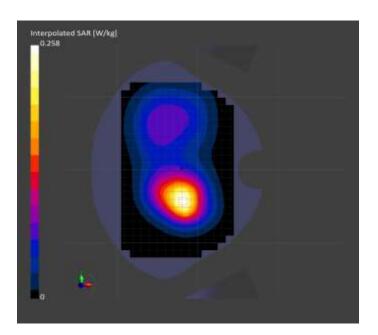
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	GSM 850	GSM,	836.6,	9.79	0.933	42.266
HSL	10.00		10023-DAC	190			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.224	0.228
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.148	0.145
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	0.06	0.02
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		20.6
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		62.1



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 97 of 161

Meas.6 Measurement Report for RS60, CHEEK, PCS 1900, UID 10021 DAC, Channel 512 (1850.2MHz) With Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000001942	Phone

Exposure Conditions

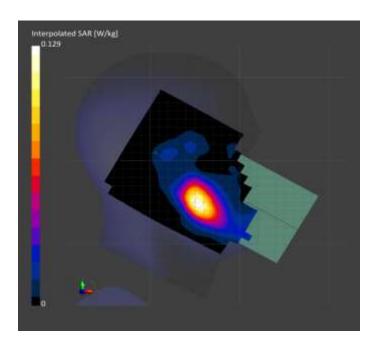
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	PCS 1900	GSM,	1850.2,	8.07	1.383	41.377
HSL	0.00		10021-DAC	512			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

Area Scan	Zoom Scan		Area Scan	Zoom Scan
140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.105	0.108
10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.059	0.064
3.0	1.4	Power Drift [dB]	-0.19	-0.01
VMS + 6p	VMS + 6p	M2/M1 [%]		11.4
Measured	Measured	Dist 3dB Peak [mm]		65.6
	140.0 x 240.0 10.0 x 10.0 3.0 VMS + 6p	140.0 x 240.0 30.0 x 30.0 x 30.0 10.0 x 10.0 5.0 x 5.0 x 5.0 3.0 1.4 VMS + 6p VMS + 6p	140.0 x 240.0 30.0 x 30.0 x 30.0 psSAR1g [W/Kg] 10.0 x 10.0 5.0 x 5.0 x 5.0 psSAR10g [W/Kg] 3.0 1.4 Power Drift [dB] VMS + 6p VMS + 6p M2/M1 [%]	140.0 x 240.0 30.0 x 30.0 x 30.0 psSAR1g [W/Kg] 0.105 10.0 x 10.0 5.0 x 5.0 x 5.0 psSAR10g [W/Kg] 0.059 3.0 1.4 Power Drift [dB] -0.19 VMS + 6p VMS + 6p M2/M1 [%] 0.059



Report No.: SHE20090007-02SE Date: 20

2021-04-09

Page 98 of 161

Meas.7 Measurement Report for RS60, FRONT, PCS 1900, UID 10021 DAC, Channel 512 (1850.2MHz) With Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000001942	Phone

Exposure Conditions

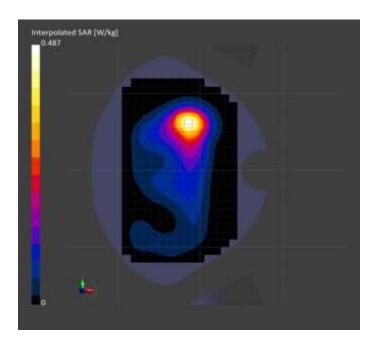
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	PCS 1900	GSM,	1850.2,	8.07	1.383	41.377
HSL	10.00		10021-DAC	512			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.401	0.406
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.229	0.227
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	0.02	0.04
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		14.6
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		57.4



Report No.: SHE20090007-02SE Date: 202

2021-04-09

Page 99 of 161

Meas.8 Measurement Report for RS60, BACK, PCS 1900, UID 10021 DAC, Channel 512 (1850.2MHz) With Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000001942	Phone

Exposure Conditions

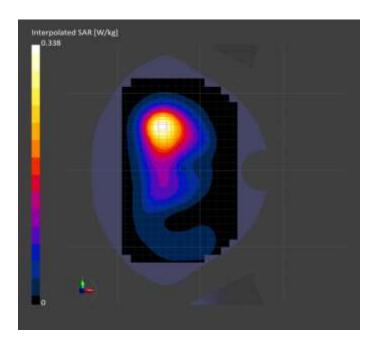
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	PCS 1900	GSM,	1850.2,	8.07	1.383	41.377
HSL	10.00		10021-DAC	512			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

Area Scan	Zoom Scan		Area Scan	Zoom Scan
140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.281	0.285
10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.169	0.170
3.0	1.4	Power Drift [dB]	-0.16	-0.10
VMS + 6p	VMS + 6p	M2/M1 [%]		17.7
Measured	Measured	Dist 3dB Peak [mm]		59.1
	140.0 x 240.0 10.0 x 10.0 3.0 VMS + 6p	140.0 x 240.0 30.0 x 30.0 x 30.0 10.0 x 10.0 5.0 x 5.0 x 5.0 3.0 1.4 VMS + 6p VMS + 6p	140.0 x 240.0 30.0 x 30.0 x 30.0 psSAR1g [W/Kg] 10.0 x 10.0 5.0 x 5.0 x 5.0 psSAR10g [W/Kg] 3.0 1.4 Power Drift [dB] VMS + 6p VMS + 6p M2/M1 [%]	140.0 x 240.0 30.0 x 30.0 x 30.0 psSAR1g [W/Kg] 0.281 10.0 x 10.0 5.0 x 5.0 x 5.0 psSAR10g [W/Kg] 0.169 3.0 1.4 Power Drift [dB] -0.16 VMS + 6p VMS + 6p M2/M1 [%] 0



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 100 of 161

Meas.9 Measurement Report for RS60, FRONT, GPRS 1900, UID 10023 DAC, Channel 512 (1850.2MHz) With Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000001942	Phone

Exposure Conditions

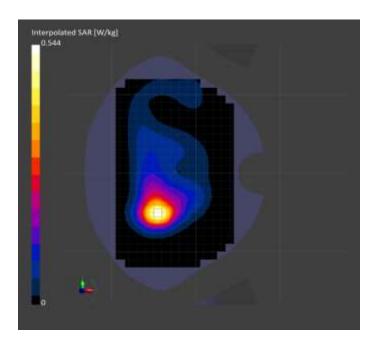
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	PCS 1900	GSM,	1850.2,	8.07	1.383	41.377
HSL	10.00		10023-DAC	512			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.443	0.462
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.249	0.256
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.12	0.05
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		13.0
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		58.7
Court Motilod	weasured	Measured			



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 101 of 161

Meas.10 Measurement Report for RS60, BACK, PCS 1900, UID 10023 DAC, Channel 512 (1850.2MHz) Without Scaner Device under Test Properties

Name, ManufacturerDimensions [mm]IMEIDUT TypeRS60,193.0 x 93.0 x 16.501585000001942Phone

Exposure Conditions

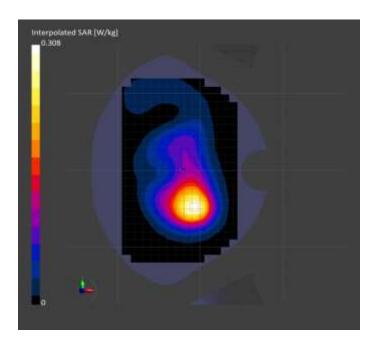
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	PCS 1900	GSM,	1850.2,	8.07	1.383	41.377
HSL	10.00		10023-DAC	512			

Hardware Setup

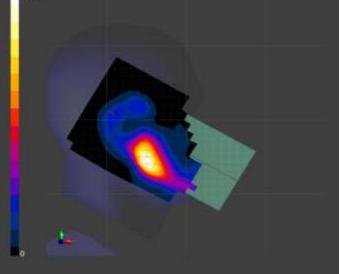
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

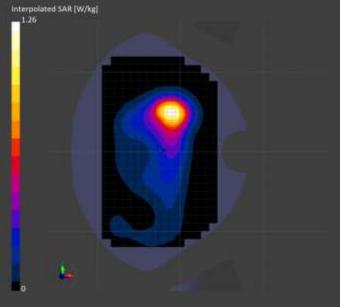
Area Scan	Zoom Scan		Area Scan	Zoom Scan
140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.254	0.260
10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.153	0.156
3.0	1.4	Power Drift [dB]	0.11	-0.03
VMS + 6p	VMS + 6p	M2/M1 [%]		17.0
Measured	Measured	Dist 3dB Peak [mm]		59.7
	140.0 x 240.0 10.0 x 10.0 3.0 VMS + 6p	140.0 x 240.0 30.0 x 30.0 x 30.0 10.0 x 10.0 5.0 x 5.0 x 5.0 3.0 1.4 VMS + 6p VMS + 6p	140.0 x 240.0 30.0 x 30.0 x 30.0 psSAR1g [W/Kg] 10.0 x 10.0 5.0 x 5.0 x 5.0 psSAR10g [W/Kg] 3.0 1.4 Power Drift [dB] VMS + 6p VMS + 6p M2/M1 [%]	140.0 x 240.0 30.0 x 30.0 x 30.0 psSAR1g [W/Kg] 0.254 10.0 x 10.0 5.0 x 5.0 x 5.0 psSAR10g [W/Kg] 0.153 3.0 1.4 Power Drift [dB] 0.11 VMS + 6p VMS + 6p M2/M1 [%] 0.254



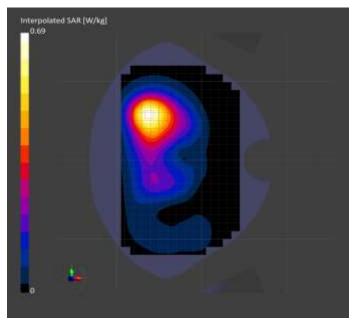
		٦	EST	RE	POF	RT		
Report No.:	SHE20090	007-02SE	Date:	2021	-04-09		Pa	ge 102 of 161
Meas.11 Mea (1907.6MHz) Device under			S60, CHEEK	, Band	2, UTR	A/FDD, UID	10011 CAB,	Channel 9538
Name, Manufactu	-	Dimensions [mr	n]	IMEI		DUT Ty	ре	
RS60,		193.0 x 93.0 x 1	-	015850000	002015	Phone	<u>.</u>	
Exposure Cor	nditions							
Phantom	Position, Te	st Band	Group,	Frequen	cy [MHz],	Conversion	TSL Conductivit	ty TSL
Section, TSL	Distance [mm]	UID	Channel	Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	Band 2	2, WCDMA,	1907.6,		8.07	1.452	40.982
HSL	0.00	UTRA/FDD	10011-CAB	9538				
Hardware Set	up							
Phantom		TSL, M	leasured Date	P	robe, Calib	ration Date	DAE, Calib	oration Date
Twin-SAM V8.0	(30deg probe	tilt) - HBBL-	600-10000	E	X3DV4 - SN	17475, 2020-10-2	29 DAE4 Sn78	37, 2020-09-30
1461		Charge	e:xxxx,					
Scan Setup				Ме	asuremer	nt Results		
		Area Scan	Zoom So	an			Area Scan	Zoom Scan
Grid Extents [mm	ן]	140.0 x 240.0	30.0 x 30.0 x 3	0.0 ps	SAR1g [W/K	[g]	0.187	0.196
Grid Steps [mm]		10.0 x 10.0	5.0 x 5.0 x	5.0 ps	SAR10g [W/	Kg]	0.107	0.121
Sensor Surface [mm]	3.0		1.4 Po	wer Drift [dB	3]	-0.11	-0.15
Surface Detectio	n	VMS + 6p	VMS +	6p M2	2/M1 [%]			11.7
Scan Method		Measured	Measu	red Dis	at 3dB Peak	[mm]		69.2
		Interpolated Sa 0.229	er (w/vg)					



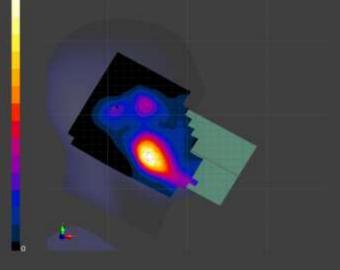
			TEST	REPO	RT		
Report No.:	SHE20090	0007-02SE	Date:	2021-04-09		Pag	e 103 of 161
Meas.12 Mea (1907.6MHz) V Device under	Vith Scaner	-	RS60, FRONT	r, Band 2, UTF	RA/FDD, UID	D 10457 AAA, C	hannel 9538
Name, Manufactu	ırer	Dimensions [mm]	IMEI	DUT 1	Туре	
RS60,		193.0 x 93.0	x 16.5	015850000002015	Phone	e	
Exposure Cor	nditions						
Phantom	Position, Te	est Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	/ TSL
Section, TSL	Distance [mr	ml	UID	Channel Number	Factor	[S/m]	Permittivity
, -	•	-					
	FRONT,	Band	2, WCDMA,	1907.6,	8.07	1.452	40.982
Flat, HSL	-	-		1907.6, 9538	8.07	1.452	40.982
Flat, HSL	FRONT, 10.00	Band			8.07	1.452	40.982
Flat, HSL Hardware Set	FRONT, 10.00	Band UTRA/FD	DD 10457-AAA	9538			
Flat, HSL Hardware Sett Phantom	FRONT, 10.00 up	Band UTRA/FD TSL	D 10457-AAA	9538 Probe, Cali	bration Date	DAE, Calibra	ation Date
Flat,	FRONT, 10.00 up	Band UTRA/FD TSL e tilt) - HBE	D 10457-AAA ., Measured Date BL-600-10000	9538 Probe, Cali		DAE, Calibra	
Flat, HSL Hardware Sett Phantom Twin-SAM V8.0	FRONT, 10.00 up	Band UTRA/FD TSL e tilt) - HBE	D 10457-AAA	9538 Probe, Cali	bration Date	DAE, Calibra	ation Date
Flat, HSL Hardware Sett Phantom Twin-SAM V8.0	FRONT, 10.00 up	Band UTRA/FD TSL e tilt) - HBE	D 10457-AAA ., Measured Date BL-600-10000	9538 Probe, Cali	bration Date SN7475, 2020-10	DAE, Calibra	ation Date
Flat, HSL Hardware Sett Phantom Twin-SAM V8.0 1461	FRONT, 10.00 up	Band UTRA/FD TSL e tilt) - HBE	D 10457-AAA ., Measured Date BL-600-10000	9538 Probe, Cali EX3DV4 - S Measureme	bration Date SN7475, 2020-10	DAE, Calibra	ation Date 7, 2020-09-30
Flat, HSL Hardware Sett Phantom Twin-SAM V8.0 1461	FRONT, 10.00 up (30deg probe	Band UTRA/FD TSL e tilt) - HBE Cha	D 10457-AAA ., Measured Date BL-600-10000 arge:xxxx,	9538 Probe, Cali EX3DV4 - S Measureme	bration Date SN7475, 2020-10 ent Results	DAE, Calibra D-29 DAE4 Sn787	ation Date 7, 2020-09-30 Zoom Scan
Flat, HSL Hardware Sett Phantom Iwin-SAM V8.0 1461 Scan Setup	FRONT, 10.00 up (30deg probe	Band UTRA/FD TSL e tilt) - HBE Cha Area Scan	D 10457-AAA ., Measured Date BL-600-10000 arge:xxxx, Zoom So	9538 Probe, Cali EX3DV4 - S Measureme San 90.0 psSAR1g [W/	bration Date SN7475, 2020-10 ent Results	DAE, Calibra D-29 DAE4 Sn787 Area Scan	ation Date 7, 2020-09-30 Zoom Scar 1.08
Flat, HSL Hardware Sett Phantom Twin-SAM V8.0 1461 Scan Setup Grid Extents [mm	FRONT, 10.00 up (30deg probe	Band UTRA/FD TSL e tilt) - HBE Cha Area Scan 140.0 x 240.0	D 10457-AAA , Measured Date 3L-600-10000 urge:xxxx, Zoom So 30.0 x 30.0 x 3 5.0 x 5.0 x	9538 Probe, Cali EX3DV4 - S Measureme San 90.0 psSAR1g [W/	bration Date SN7475, 2020-10 ent Results /Kg] V/Kg]	DAE, Calibra D-29 DAE4 Sn787 Area Scan 1.03	ation Date 7, 2020-09-30 Zoom Scar 1.08 0.590
Flat, HSL Hardware Setu Phantom Twin-SAM V8.0 1461 Scan Setup Grid Extents [mm]	FRONT, 10.00 up (30deg probe	Band UTRA/FD TSL e tilt) - HBE Cha Area Scan 140.0 x 240.0 10.0 x 10.0	D 10457-AAA , Measured Date 3L-600-10000 urge:xxxx, Zoom So 30.0 x 30.0 x 3 5.0 x 5.0 x	9538 Probe, Cali EX3DV4 - S Measureme 5.0 psSAR1g [W/ 5.0 psSAR10g [V 1.4 Power Drift [c	bration Date SN7475, 2020-10 ent Results /Kg] V/Kg]	DAE, Calibra D-29 DAE4 Sn787 Area Scan 1.03 0.579	ation Date



		Г	EST	REPOF	RT		
Report No.:	SHE20090	007-02SE	Date:	2021-04-09		Page	104 of 161
Meas.13 Mea (1907.6MHz) \		•	S60, BACK, I	Band 2, UTR <i>I</i>	VFDD, UID	10457 AAA, Ch	annel 9538
Device under	Test Propert	ties					
Name, Manufacto	urer	Dimensions [mr	n] IM	EI	DUT Ty	/ре	
RS60,		193.0 x 93.0 x 1	6.5 01	5850000002015	Phone		
Exposure Co	nditions						
Phantom	Position, Te	st Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm	1]	UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	Band 2	, WCDMA,	1907.6,	8.07	1.452	40.982
HSL	10.00	UTRA/FDD	10457-AAA	9538			
Hardware Set	tup	TSL. M	leasured Date	Probe, Calib	ration Date	DAE, Calibrat	ion Date
Twin-SAM V8.0	(30deg probe		600-10000		17475, 2020-10-2	,	
1461	(obdeg probe		ecc 10000				
Scan Setup				Measuremer	t Results		
ooun ootup		Area Scan	Zoom Scar			Area Scan	Zoom Scar
Grid Extents [mr	m]	140.0 x 240.0	30.0 x 30.0 x 30.0) psSAR1g [W/K	g]	0.570	0.571
Grid Steps [mm]]	10.0 x 10.0	5.0 x 5.0 x 5.0			0.340	0.340
Sensor Surface	[mm]	3.0	1.4	Power Drift [dB]	-0.10	-0.13
			VMS + 60	M2/M1 [%]			19.1
Surface Detection	n	VMS + 6p	v ivio + op	//////////////////////////////////////			10.1



		Т	EST	REPOF	RT		
Report No.:	SHE200900	07-02SE	Date:	2021-04-09		Page	e 105 of 161
Meas.14 Mea (1712.4MHz) Device under		-	560, CHEEK,	Band 4, UTR	A/FDD, UID	10011 CAB, C	hannel 1312
Name, Manufactu	irer D)imensions [mn	1] II	MEI	DUT T	/ре	
RS60,		193.0 x 93.0 x 1	6.5 0	15850000002015	Phone		
Exposure Cor	nditions						
Phantom	Position, Tes	t Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	Band 4	, WCDMA,	1712.4,	8.45	1.405	41.886
HSL	0.00	UTRA/FDD	10011-CAB	1312			
Hardware Set	up						
Phantom		TSL, N	leasured Date	Probe, Calib	ration Date	DAE, Calibra	tion Date
Twin-SAM V8.0	(30deg probe	tilt) - HBBL-(600-10000	EX3DV4 - SN	17475, 2020-10-2	29 DAE4 Sn787,	2020-09-30
1461		Charge	::xxxx,				
Scan Setup				Measuremer	nt Results		
		Area Scan	Zoom Sca	an		Area Scan	Zoom Scan
Grid Extents [mm	ן] 1	40.0 x 240.0	30.0 x 30.0 x 30	.0 psSAR1g [W/K	(g]	0.117	0.123
Grid Steps [mm]		10.0 x 10.0	5.0 x 5.0 x 5	.0 psSAR10g [W/	′Kg]	0.069	0.079
Sensor Surface [mm]	3.0	1	.4 Power Drift [dB	3]	0.07	-0.17
Surface Detection	n	VMS + 6p	VMS + 6	6p M2/M1 [%]			12.7
Scan Method		Measured	Measure	ed Dist 3dB Peak	[mm]		71.3
		100000000000000000000000000000000000000	B DM Aval				
		Interpolated SA 0.142	w [wyw8]				



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 106 of 161

Meas.15 Measurement Report for RS60, FRONT, Band 4, UTRA/FDD, UID 10457 AAA, Channel 1513 (1752.6MHz) With Scaner

Device under Test Properties

Name, Manufact	turer Dimensi	ons [mm]	IMEI	DUT T	/ре	
RS60,	60, 193.0 x 93.0 x 16.5		015850000002015	Phone		
Exposure Co	onditions					
Phantom	Position, Test Ban	d Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]	UID	Channel Number	Factor	[S/m]	Permittivity

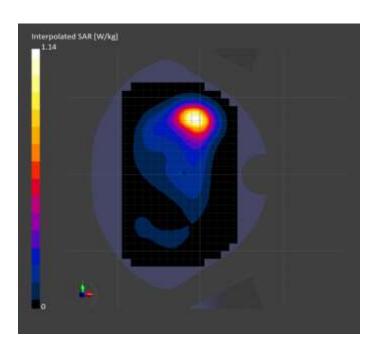
Flat, FRONT, Band 4, WCDMA, 1752.6, 8.45 1.422 41.072 HSL 10.00 UTRA/FDD 10457-AAA 1513	0000000, 102	Biotarioo [iiiii]			0.2		i detei	[e,]	
HSL 10.00 UTRA/FDD 10457-AAA 1513	Flat,	FRONT,	Band	4,	WCDMA,	1752.6,	8.45	1.422	41.072
	HSL	10.00	UTRA/FD	D	10457-AAA	1513			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.948	0.968
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.539	0.537
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.00	-0.00
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		13.6
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		57.6



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 107 of 161

Meas.16 Measurement Report for RS60, BACK, Band 4, UTRA/FDD, UID 10457 AAA, Channel 1312 (1712.4MHz) Without Scaner

Device under Test Properties

Name, Manufac	turer	Dir	nensions [r	nm]	IMEI	DUT T	уре		
RS60,		19	93.0 x 93.0 x	16.5	015850000002015	Phone	•		
Expedite Co	nditiono								
Exposure Co	onations								
Phantom	Position,	Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL
Contion TCI	Distance [m				Channel Number	Fastar	re/~	-1	Downittivity

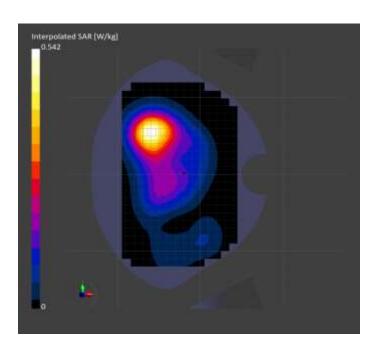
Section, TSL	Distance [mm]			UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	Band	4,	WCDMA,	1712.4,	8.45	1.405	41.886
HSL	10.00	UTRA/FD	D	10457-AAA	1312			

Hardware Setup

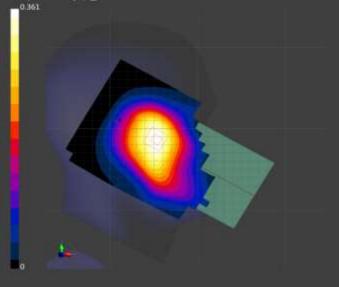
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.456	0.462
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.276	0.279
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.06	-0.05
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		19.2
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		60.7



		-	TEST	REPOF	RT		
Report No.:	SHE20090	0007-02SE	Date:	2021-04-09		Page	e 108 of 161
Meas.17 Mea (846.6MHz) Device under		-	RS60, CHEEK,	Band 5, UTR	A/FDD, UID	10011 CAB, C	hannel 4233
Name, Manufactu	•	Dimensions [m	im] IN	IEI	DUT Ty	vpe	
RS60,		193.0 x 93.0 x	•	5850000002015	Phone		
Exposure Cor	ditions						
Phantom	Position, Te	est Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
	Dictore Imm	-		Channel Number	Factor	[S/m]	Permittivity
Section, TSL	Distance [mn	nj	UID				
•	CHEEK,	-	5, WCDMA,	846.6,	9.79	0.943	42.794
Section, TSL LeftHead, HSL	-	-	5, WCDMA,		9.79		42.794
LeftHead, HSL Hardware Set	СНЕЕК, 0.00	Band UTRA/FDD	5, WCDMA, 0 10011-CAB	846.6, 4233		0.943	-
LeftHead, HSL Hardware Sett Phantom	снеек, 0.00 ир	Band UTRA/FDD TSL ,	5, WCDMA, 0 10011-CAB Measured Date	846.6, 4233 Probe, Calib	ration Date	0.943 DAE, Calibra	tion Date
LeftHead, HSL Hardware Set	снеек, 0.00 ир	Band UTRA/FDD TSL, e tilt) - HBBL	5, WCDMA, 0 10011-CAB	846.6, 4233 Probe, Calib		0.943 DAE, Calibra	tion Date
LeftHead, HSL Hardware Sett Phantom Twin-SAM V8.0 1461	снеек, 0.00 ир	Band UTRA/FDD TSL, e tilt) - HBBL	5, WCDMA, 0 10011-CAB Measured Date -600-10000	846.6, 4233 Probe, Calib EX3DV4 - SN	ration Date 17475, 2020-10-2	0.943 DAE, Calibra	tion Date
LeftHead, HSL Hardware Sett Phantom Twin-SAM V8.0	снеек, 0.00 ир	Band UTRA/FDD TSL, e tilt) - HBBL	5, WCDMA, 0 10011-CAB Measured Date -600-10000	846.6, 4233 Probe, Calib EX3DV4 - SN Measuremen	ration Date 17475, 2020-10-2	0.943 DAE, Calibra	ntion Date , 2020-09-30
LeftHead, HSL Hardware Setu Phantom Twin-SAM V8.0 1461	CHEEK, 0.00 up (30deg probe	Band UTRA/FDD TSL, a tilt) - HBBL Charç	5, WCDMA, 0 10011-CAB Measured Date -600-10000 ge:xxxx,	846.6, 4233 Probe, Calib EX3DV4 - SN Measuremen	ration Date 17475, 2020-10-2 nt Results	0.943 DAE, Calibra 29 DAE4 Sn787	tion Date , 2020-09-30 Zoom Scar
LeftHead, HSL Hardware Sett Phantom Twin-SAM V8.0 1461 Scan Setup	CHEEK, 0.00 up (30deg probe	Band UTRA/FDD TSL, e tilt) - HBBL Charg Area Scan	5, WCDMA, 0 10011-CAB Measured Date -600-10000 ge:xxxx, Zoom Scar	846.6, 4233 Probe, Calib EX3DV4 - SN Measuremer n D psSAR1g [W/K	ration Date 17475, 2020-10-2 nt Results	0.943 DAE, Calibra 29 DAE4 Sn787 Area Scan	ation Date , 2020-09-30 Zoom Scar 0.33
LeftHead, HSL Hardware Sett Phantom Twin-SAM V8.0 1461 Scan Setup Grid Extents [mm	CHEEK, 0.00 up (30deg probe	Band UTRA/FDD TSL, e tilt) - HBBL Charg Area Scan 140.0 x 240.0	5, WCDMA, 0 10011-CAB Measured Date 600-10000 ge:xxxx, Zoom Scar 30.0 x 30.0 x 30.0	846.6, 4233 Probe, Calib EX3DV4 - SN Measuremen D psSAR1g [W/K D psSAR10g [W/	ration Date 17475, 2020-10-3 nt Results [9] [Kg]	0.943 DAE, Calibra 29 DAE4 Sn787 Area Scan 0.317	tion Date , 2020-09-30 Zoom Sca 0.33 0.26
LeftHead, HSL Hardware Setu Phantom Twin-SAM V8.0 1461 Scan Setup Grid Extents [mm]	CHEEK, 0.00 up (30deg probe	Band UTRA/FDD TSL, e tilt) - HBBL Charg Area Scan 140.0 x 240.0 10.0 x 10.0	5, WCDMA, 10011-CAB Measured Date -600-10000 ge:xxxx, Zoom Scar 30.0 x 30.0 x 30.0 5.0 x 5.0 x 5.0	846.6, 4233 Probe, Calib EX3DV4 - SN Measuremen D psSAR1g [W/K D psSAR10g [W/ 4 Power Drift [de	ration Date 17475, 2020-10-3 nt Results [9] [Kg]	0.943 DAE, Calibra 29 DAE4 Sn787 Area Scan 0.317 0.220	tion Date



Report No.: SHE20090007-02SE Date:

2021-04-09

Page 109 of 161

Meas.18 Measurement Report for RS60, FRONT, Band 5, UTRA/FDD, UID 10457 AAA, Channel 4233 (846.6MHz) With Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	Band 5	, WCDMA,	846.6,	9.79	0.943	42.794
HSL	10.00	UTRA/FDD	10457-AAA	4233			

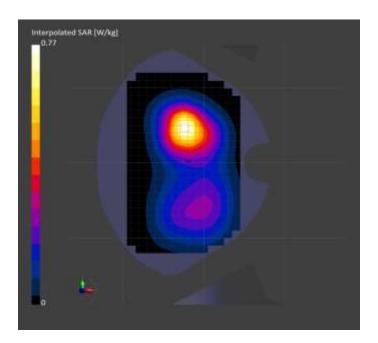
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Measurement Results

Scan Setup

Area Scan	Zoom Scan		Area Scan	Zoom Scan
140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.872	0.894
10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.576	0.559
3.0	1.4	Power Drift [dB]	-0.04	-0.12
VMS + 6p	VMS + 6p	M2/M1 [%]		20.5
Measured	Measured	Dist 3dB Peak [mm]		60.8
	140.0 x 240.0 10.0 x 10.0 3.0 VMS + 6p	140.0 x 240.0 30.0 x 30.0 x 30.0 10.0 x 10.0 5.0 x 5.0 x 5.0 3.0 1.4 VMS + 6p VMS + 6p	140.0 x 240.0 30.0 x 30.0 x 30.0 psSAR1g [W/Kg] 10.0 x 10.0 5.0 x 5.0 x 5.0 psSAR10g [W/Kg] 3.0 1.4 Power Drift [dB] VMS + 6p VMS + 6p M2/M1 [%]	140.0 x 240.0 30.0 x 30.0 x 30.0 psSAR1g [W/Kg] 0.872 10.0 x 10.0 5.0 x 5.0 x 5.0 psSAR10g [W/Kg] 0.576 3.0 1.4 Power Drift [dB] -0.04 VMS + 6p VMS + 6p M2/M1 [%] 0



Report No.: SHE20090007-02SE Date: 2021-04-09

UTRA/FDD

Page 110 of 161

Meas.19 Measurement Report for RS60, BACK, Band 5, UTRA/FDD, UID 10457 AAA, Channel 4233 (846.6MHz) Without Scaner

Device under Test Properties

10.00

Name, Manufact	ne, Manufacturer Dimensions [mm]			IMEI DUT Type		уре		
RS60,	RS60 , 193.0 x 93.0 x 16.5		5	015850000002015	Phone	Phone		
Exposure ConditionsPhantomPosition, TestBandGroup,Section, TSLDistance [mm]UID			• •	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	
Flat,	BACK,	Band	5,	WCDMA,	846.6,	9.79	0.943	42.794

4233

Hardware Setup

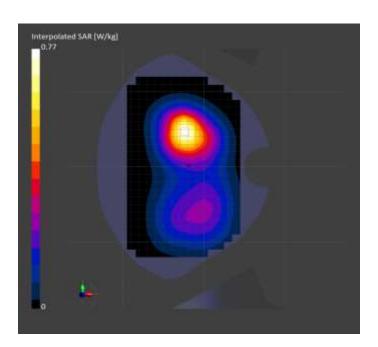
HSL

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

10457-AAA

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.665	0.667
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.439	0.426
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.07	-0.09
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		21.2
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		63.3



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 111 of 161

Meas.20 Measurement Report for RS60, CHEEK, Band 2, E-UTRA/FDD, UID 10169 CAE, Channel 18700 (1860.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Туре
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone

Exposure Conditions

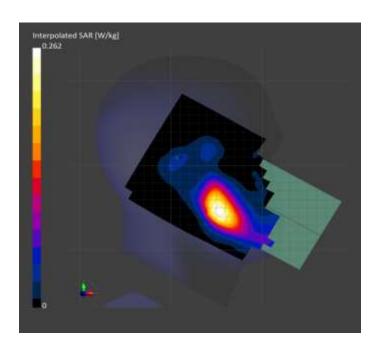
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	Band 2,	LTE-FDD,	1860.0,	8.07	1.432	41.324
HSL	0.00	E-UTRA/FD	10169-CAE	18700			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.216	0.223
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.124	0.136
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	0.19	-0.12
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		13.0
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		67.0



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 112 of 161

Meas.21 Measurement Report for RS60, FRONT, Band 2, E-UTRA/FDD, UID 10169 CAE, Channel 18900 (1880.0MHz) With Scaner

Device under Test Properties

Name, Manufa	acturer	Dimensions [n	nm]	IMEI	DUT Type	
RS60,		193.0 x 93.0 x	16.5	015850000002015	Phone	
Exposure C	Conditions					
Phantom	Position.	Test Band	Group.	Frequency [MHz],	Conversion TSL Conductivity	TSL

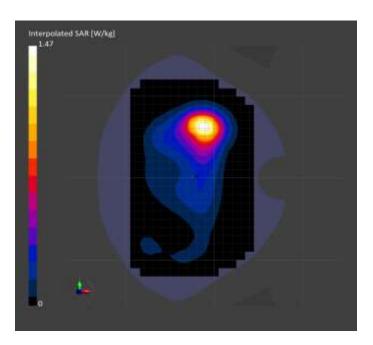
Phantom	Position, lest	Band		Group,	Frequency [MHZ],	Conversion	ISL Conductivity	ISL
Section, TSL	Distance [mm]			UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	Band	2,	LTE-FDD,	1880.0,	8.07	1.427	41.252
HSL	10.00	E-UTRA/	′FD	10169-CAE	18900			
		D						

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	1.22	1.26
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.687	0.686
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.00	0.03
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		13.3
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		56.4



Report No.: SHE20090007-02SE Date:

2021-04-09

Page 113 of 161

Meas.22 Measurement Report for RS60, BACK, Band 2, E-UTRA/FDD, UID 10169 CAE, Channel 18700 (1860.0MHz) Without Scaner

Device under Test Properties

Name, Manufact	urer	Dir	nensions [ı	nm]	IMEI	DUT Ty	уре	
RS60,		19	93.0 x 93.0 x	< 16.5	015850000002015	Phone		
Exposure Co	nditions							
Phantom		Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL

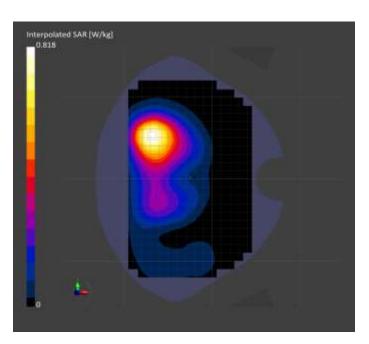
1 Harton	i contenț, rect	Bana		ereup,	i ioquonoy [iiiiii],	00111010101011		
Section, TSL	Distance [mm]			UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	Band	2,	LTE-FDD,	1860.0,	8.07	1.432	41.324
HSL	10.00	E-UTRA/F	D	10169-CAE	18700			
		D						

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.687	0.700
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.413	0.414
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.11	-0.10
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		18.4
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		58.4



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 114 of 161

Meas.23 Measurement Report for RS60, CHEEK, Band 4, E-UTRA/FDD, UID 10169 CAE, Channel 20050 (1720.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone

Exposure Conditions

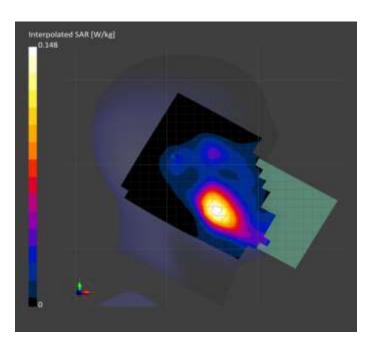
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	Band 4,	LTE-FDD,	1720.0,	8.45	1.413	41.749
HSL	0.00	E-UTRA/FD	10169-CAE	20050			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.124	0.131
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.073	0.082
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.15	-0.11
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		12.4
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		69.0



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 115 of 161

TSL

41.077

Permittivity

Meas.24 Measurement Report for RS60, FRONT, Band 4, E-UTRA/FDD, UID 10169 CAE, Channel 20175 (1732.5MHz) With Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone
Exposure Conditions			

Phantom Position, Test Frequency [MHz], TSL Conductivity Band Group, Conversion Section, TSL Distance [mm] UID **Channel Number** Factor [S/m] Flat, FRONT, Band 4, LTE-FDD, 1732.5, 8.45 1.387

10.00 E-UTRA/FD 10169-CAE 20175 D

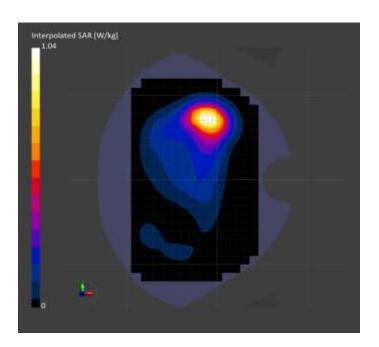
Hardware Setup

HSL

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.861	0.884
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.490	0.486
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.15	0.02
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		13.3
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		57.0



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 116 of 161

Meas.25 Measurement Report for RS60, BACK, Band 4, E-UTRA/FDD, UID 10169 CAE, Channel 20050 (1720.0MHz) Without Scaner

Device under Test Properties

		-	ре
RS60, 193.0 x 93.0	x 16.5 015850	0000002015 Phone	
Exposure Conditions			

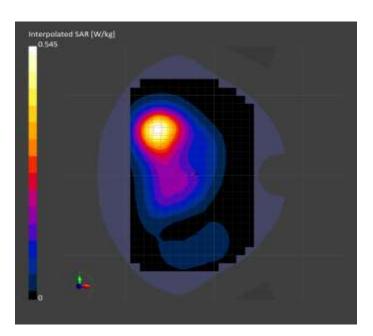
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	Band 4	l, LTE-FDD,	1720.0,	8.45	1.413	41.749
HSL	10.00	E-UTRA/FD	10169-CAE	20050			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.453	0.458
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.273	0.275
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.10	-0.07
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		18.0
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		60.0



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 117 of 161

Meas.26 Measurement Report for RS60, CHEEK, Band 5, E-UTRA/FDD, UID 10175 CAG, Channel 20450 (829.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone

Exposure Conditions

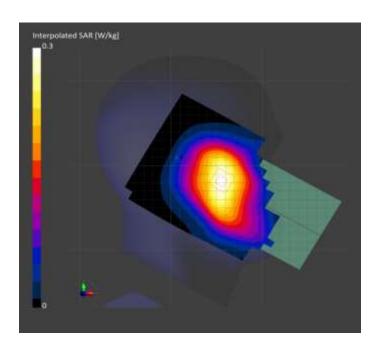
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	Band 5,	LTE-FDD,	829.0,	9.79	0.916	42.469
HSL	0.00	E-UTRA/FD	10175-CAG	20450			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.260	0.274
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.177	0.206
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.18	0.02
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		inf
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		75.0



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 118 of 161

Meas.27 Measurement Report for RS60, FRONT, Band 5, E-UTRA/FDD, UID 10175 CAG, Channel 20450 (829.0MHz) With Scaner

Device under Test Properties

Name, Manufa	cturer	Di	mensions [m	m]	IMEI	DUT Ty	/pe		
RS60,		1	93.0 x 93.0 x	16.5	015850000002015	Phone			
Exposure C	onditions								
Phantom	Position	Tost	Band	Group	Frequency [MHz]	Conversion	IST	Conductivity	IST

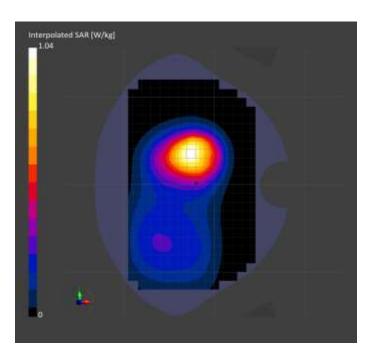
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	Band 5	, LTE-FDD,	829.0,	9.79	0.916	42.469
HSL	10.00	E-UTRA/FD	10175-CAG	20450			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.898	0.899
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.589	0.556
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.18	-0.14
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		17.9
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		58.2



Report No.: SHE20090007-02SE 2021-04-09 Date:

E-UTRA/FD

D

10175-CAG

Page 119 of 161

Meas.28 Measurement Report for RS60, BACK, Band 5, E-UTRA/FDD, UID 10175 CAG, Channel 20450 (829.0MHz) Without Scaner

Device under Test Properties

10.00

Name, Manufacturer		imensions	ns [mm]		IMEI		DUT Type		
RS60,		193.0 x 93.0) x 16.	5	015850000002015	Phone			
Exposure Co	onditions Position, Test	Band		Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL	
Section, TSL	Distance [mm]			UID	Channel Number	Factor	[S/m]	Permittivity	
Flat,	BACK,	Band	5,	LTE-FDD,	829.0,	9.79	0.916	42.469	

20450

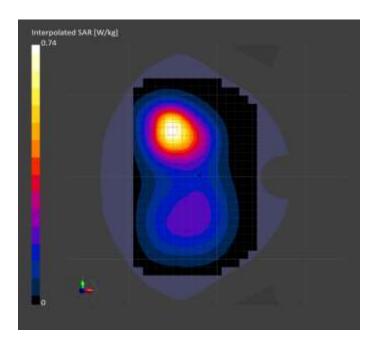
Hardware Setup

HSL

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

Measurement Results Zoom Scan Area Scan Area Scan Zoom Scan Grid Extents [mm] 140.0 x 240.0 30.0 x 30.0 x 30.0 psSAR1g [W/Kg] 0.643 0.648 Grid Steps [mm] 10.0 x 10.0 5.0 x 5.0 x 5.0 psSAR10g [W/Kg] 0.427 0.407 Power Drift [dB] Sensor Surface [mm] 3.0 -0.07 -0.03 1.4 Surface Detection M2/M1 [%] VMS + 6p VMS + 6p 20.5 Scan Method Measured Dist 3dB Peak [mm] 61.4 Measured



Report No.: SHE20090007-02SE Date: 202

2021-04-09

Page 120 of 161

Meas.29 Measurement Report for RS60, CHEEK, Band 7, E-UTRA/FDD, UID 10169 CAE, Channel 21100 (2535.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type	
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone	

Exposure Conditions

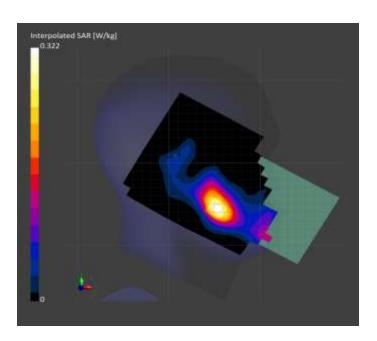
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	Band 7,	LTE-FDD,	2535.0,	7.65	1.969	40.805
HSL	0.00	E-UTRA/FD	10169-CAE	21100			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.256	0.266
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.133	0.142
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.16	-0.02
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		11.7
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		57.9



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 121 of 161

Meas.30 Measurement Report for RS60, FRONT, Band 7, E-UTRA/FDD, UID 10169 CAE, Channel 20850 (2510.0MHz) With Scaner

Device under Test Properties

Name, Manufa	acturer	Dimensions [m	im]	IMEI	DUT Ty	pe	
RS60,		193.0 x 93.0 x	16.5	015850000002015	Phone		
Exposure C	Conditions						
Phantom		Test Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL

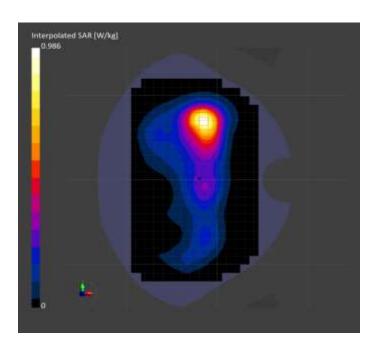
Filantoni	FUSILION, TEST	Danu		Group,	Frequency [MHz],	Conversion	ISE Conductivity	ISL
Section, TSL	Distance [mm]			UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	Band	7,	LTE-FDD,	2510.0,	7.65	1.942	40.714
HSL	10.00	E-UTRA/F	D	10169-CAE	20850			
		D						

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.775	0.765
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.406	0.393
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.09	0.11
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		14.1
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		50.1



Report No.: SHE20090007-02SE Date:

2021-04-09

Page 122 of 161

Meas.31 Measurement Report for RS60, BACK, Band 7, E-UTRA/FDD, UID 10169 CAE, Channel 21100 (2535.0MHz) Without Scaner

Device under Test Properties

	-						
Name, Manufact	turer	Dimensions [m	nm]	IMEI	DUT T	уре	
RS60,		193.0 x 93.0 x	16.5	015850000002015	Phone		
Exposure Co	onditions						
Phantom	Position, Te	st Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section TSI	Distance Imn	1	UID	Channel Number	Factor	[S/m]	Permittivity

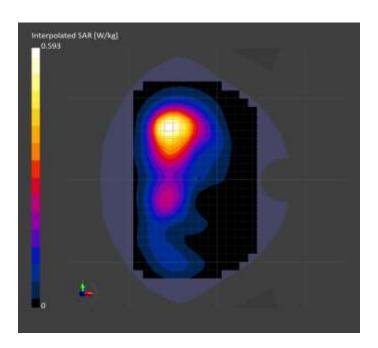
Section, TSL	Distance [mm]			UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	Band	7,	LTE-FDD,	2535.0,	7.65	1.969	40.805
HSL	10.00	E-UTRA/FD	D	10169-CAE	21100			
		D						

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.482	0.476
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.271	0.263
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.12	-0.15
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		15.6
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		51.1



Report No.: SHE20090007-02SE Date: 20

2021-04-09

Page 123 of 161

Meas.32 Measurement Report for RS60, CHEEK, Band 12, E-UTRA/FDD, UID 10175 CAG, Channel 23060 (704.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone
Exposure Conditions			

Phantom Position, Test Frequency [MHz], TSL Conductivity Band Group, Conversion TSL Section, TSL UID **Channel Number** Permittivity Distance [mm] Factor [S/m] LeftHead, CHEEK, Band 12, LTE-FDD, 704.0, 10.16 0.913 42.849 HSL 0.00 E-UTRA/FD 10175-CAG 23060

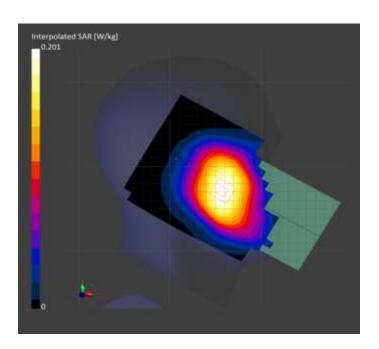
D

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.178	0.187
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.125	0.145
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.14	0.02
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		inf
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		78.9



Report No.: SHE20090007-02SE Date: 2021

2021-04-09

Page 124 of 161

Meas.33 Measurement Report for RS60, FRONT, Band 12, E-UTRA/FDD, UID 10175 CAG, Channel 23060 (704.0MHz) With Scaner

Device under Test Properties

Name, Manufactu	ırer	Din	nensions [mm]	l	IMEI	DUT Ty	ре	
RS60,		19	3.0 x 93.0 x 16	.5	015850000002015	Phone		
Exposure Cor Phantom		Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL

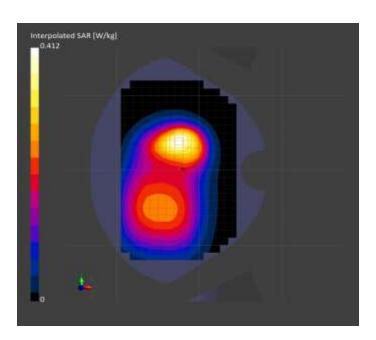
			•				•
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	Band 12	LTE-FDD,	704.0,	10.16	0.913	42.849
HSL	10.00	E-UTRA/FD	10175-CAG	23060			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.356	0.335
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.240	0.211
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.04	-0.05
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		19.2
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		59.3



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 125 of 161

Meas.34 Measurement Report for RS60, BACK, Band 12, E-UTRA/FDD, UID 10175 CAG, Channel 23060 (704.0MHz) Without Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type	
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone	
Exposure Conditions				
			а : т ана	

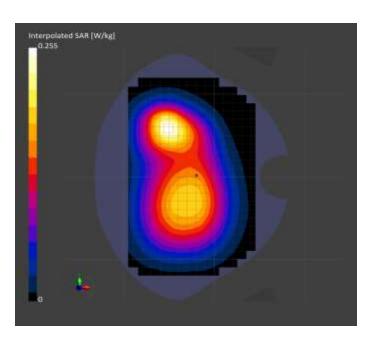
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	Band 12,	LTE-FDD,	704.0,	10.16	0.913	42.849
HSL	10.00	E-UTRA/FD	10175-CAG	23060			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.222	0.218
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.150	0.138
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.06	-0.00
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		20.5
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		60.7



Report No.: SHE20090007-02SE Date: 2

2021-04-09

Page 126 of 161

Meas.35 Measurement Report for RS60, CHEEK, Band 13, E-UTRA/FDD, UID 10175 CAG, Channel 23230 (782.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone
Exposure Conditions			

Exposure Conditions

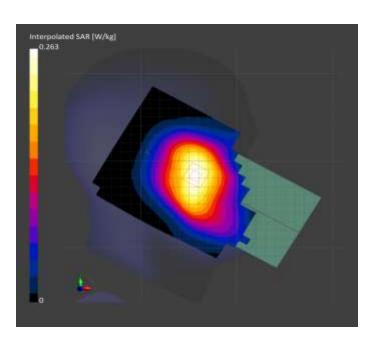
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	Band 13,	LTE-FDD,	782.0,	10.16	0.863	42.747
HSL	0.00	E-UTRA/FD	10175-CAG	23230			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.229	0.241
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.157	0.183
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.05	0.01
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		inf
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		77.2



Report No.: SHE20090007-02SE Date: 202

2021-04-09

Page 127 of 161

Meas.36 Measurement Report for RS60, FRONT, Band 13, E-UTRA/FDD, UID 10175 CAG, Channel 23230 (782.0MHz) With Scaner

Device under Test Properties

Name, Manufactu	urer	Dir	nensions [I	mm]	IMEI	DUT Ty	/pe			
RS60,		19	93.0 x 93.0 x	x 16.5	015850000002015	Phone				
Exposure Co	nditions									
Phantom	Position,	Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL	

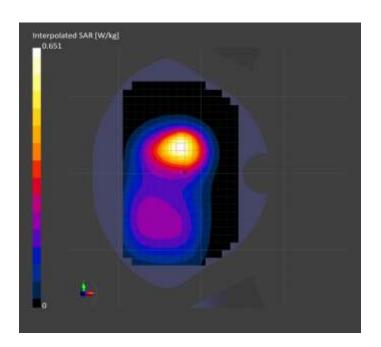
1 number	rosition, rest	Bulla	Croup,	riequency [minz],	Conversion		IOE
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	Band 13	3, LTE-FDD,	782.0,	10.16	0.863	42.747
HSL	10.00	E-UTRA/FD	10175-CAG	23230			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.567	0.566
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.377	0.356
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.15	-0.14
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		19.8
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		60.2



Report No.: SHE20090007-02SE Date: 2021

2021-04-09

Page 128 of 161

Meas.37 Measurement Report for RS60, BACK, Band 13, E-UTRA/FDD, UID 10175 CAG, Channel 23230 (782.0MHz) Without Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm] IMEI	DUT Type	
RS60,	193.0 x 93.0 x 16	0.5015850000002015	Phone	
Exposure Conditions	5			
Dhantam Dasitia	n Taat Dand		-1 Commention TCI Com	

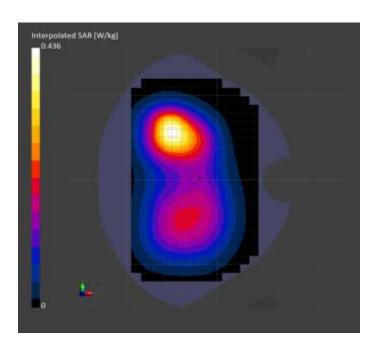
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	Band 13,	LTE-FDD,	782.0,	10.16	0.863	42.747
HSL	10.00	E-UTRA/FD	10175-CAG	23230			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.380	0.377
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.254	0.238
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.10	-0.01
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		21.2
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		61.6



Report No.: SHE20090007-02SE Date: 20

2021-04-09

Page 129 of 161

Meas.38 Measurement Report for RS60, CHEEK, Band 14, E-UTRA/FDD, UID 10175 CAG, Channel 23330 (793.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Туре
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone

Exposure Conditions

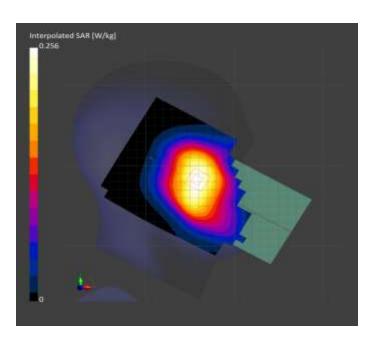
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	Band 14,	LTE-FDD,	793.0,	10.16	0.875	43.546
HSL	0.00	E-UTRA/FD	10175-CAG	23330			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.224	0.235
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.155	0.183
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.20	-0.18
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		inf
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		79.2



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 130 of 161

Meas.39 Measurement Report for RS60, FRONT, Band 14, E-UTRA/FDD, UID 10175 CAG, Channel 23330 (793.0MHz) With Scaner

Device under Test Properties

Name, Manufa	acturer	Dimensions [m	ım]	IMEI	DUT Type	
RS60,		193.0 x 93.0 x	16.5	015850000002015	Phone	
Exposure C	Conditions					
Phantom	Position.	Test Band	Group.	Frequency [MHz].	Conversion TSL Co	onductivity TSL

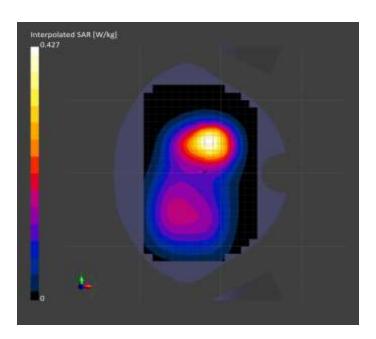
Phantom	Position, lest	Band	Group,	Frequency [MHZ],	Conversion	ISL Conductivity	ISL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	Band 14,	LTE-FDD,	793.0,	10.16	0.875	43.546
HSL	10.00	E-UTRA/FD	10175-CAG	23330			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.371	0.374
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.248	0.237
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.07	-0.04
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		22.2
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		61.3



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 131 of 161

Meas.40 Measurement Report for RS60, BACK, Band 14, E-UTRA/FDD, UID 10175 CAG, Channel 23330 (793.0MHz) Without Scaner

Device under Test Properties

Name, Manufactu	ırer	Diı	mensions [m	m]	IMEI	DUT T	уре	
RS60,		19	93.0 x 93.0 x	16.5	015850000002015	Phone		
Exposure Cor	ditions							
Phantom	Position	Test	Band	Group	Frequency [MHz]	Conversion	TSI Conductivity	TSI

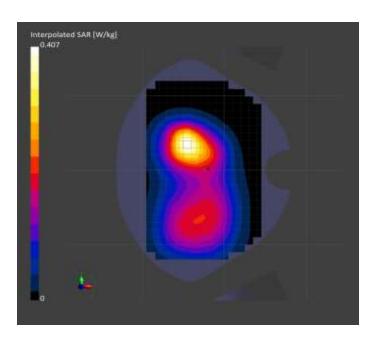
Phantom	Position, lest	Band	Group,	Frequency [MHz],	Conversion	ISL Conductivity	ISL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	Band 14,	LTE-FDD,	793.0,	10.16	0.875	43.546
HSL	10.00	E-UTRA/FD	10175-CAG	23330			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.355	0.354
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.236	0.227
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.12	-0.08
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		21.9
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		63.8



Report No.: SHE20090007-02SE Date: 2

2021-04-09

Page 132 of 161

Meas.41 Measurement Report for RS60, CHEEK, Band 25, E-UTRA/FDD, UID 10169 CAE, Channel 26590 (1905.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type	
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone	

Exposure Conditions

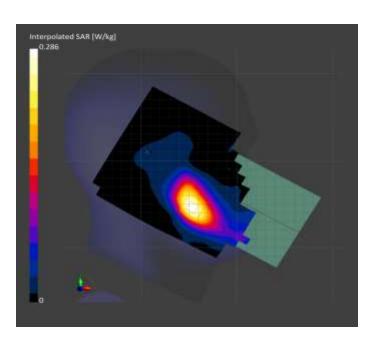
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	Band 25	LTE-FDD,	1905.0,	8.07	1.443	40.973
HSL	0.00	E-UTRA/FD	10169-CAE	26590			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.236	0.244
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.135	0.148
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.12	-0.01
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		11.1
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		66.8



Report No.: SHE20090007-02SE Date: 202

2021-04-09

Page 133 of 161

Meas.42 Measurement Report for RS60, FRONT, Band 25, E-UTRA/FDD, UID 10169 CAE, Channel 26590 (1905.0MHz) With Scaner

Device under Test Properties

Name, Manufactu	urer	Din	nensions [mn	ı]	IMEI	DUT Ty	уре	
RS60,		19	93.0 x 93.0 x 1	6.5	015850000002015	Phone		
Exposure Cor	nditions							
Phantom	Position,	Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL

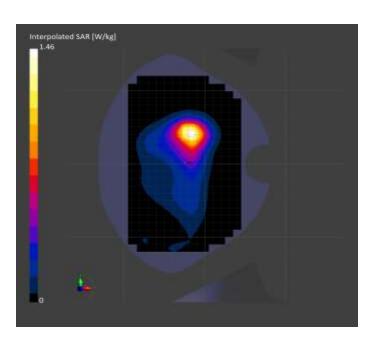
	,						-
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	Band 2	5, LTE-FDD,	1905.0,	8.07	1.443	40.974
HSL	10.00	E-UTRA/FD	0 10169-CAE	26590			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	1.19	1.22
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.656	0.664
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.03	-0.04
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		13.3
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		56.1



Report No.: SHE20090007-02SE Date: 2021-04-09

)

Page 134 of 161

Meas.43 Measurement Report for RS60, BACK, Band 25, E-UTRA/FDD, UID 10169 CAE, Channel 26590 (1905.0MHz) Without Scaner

Device under Test Properties

Name, Manufactu	urer	Din	nensions [mm]	l	IMEI	DUT Ty	уре	
RS60,		19)3.0 x 93.0 x 16	.5	015850000002015	Phone		
Exposure Cor	nditions							
Phantom	Position,	Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL

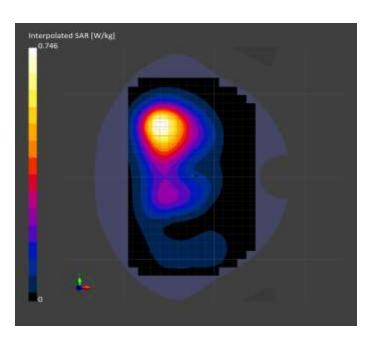
Section, TSL	Distance [mm]			UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	Band	25,	LTE-FDD,	1905.0,	8.07	1.443	40.974
HSL	10.00	E-UTRA/	/FD	10169-CAE	26590			
		D						

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.625	0.629
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.374	0.372
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.01	-0.02
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		17.5
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		57.3



Report No.: SHE20090007-02SE Date: 20

2021-04-09

Page 135 of 161

Meas.44 Measurement Report for RS60, CHEEK, Band 26 E-UTRA/FDD, UID 10181 CAE, Channel 26965 (841.5MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone

Exposure Conditions

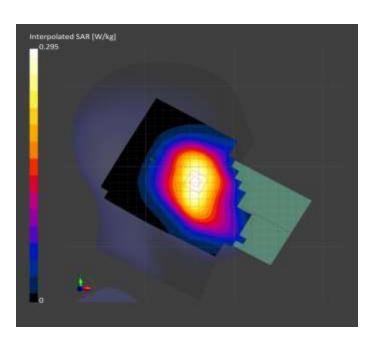
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	Band 26	LTE-FDD,	841.5,	9.79	0.941	42.642
HSL	0.00	E-UTRA/FD	10181-CAE	26965			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.257	0.273
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.176	0.209
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	0.04	0.07
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		inf
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		77.0



Report No.: SHE20090007-02SE Date:

2021-04-09

Page 136 of 161

Meas.45 Measurement Report for RS60, FRONT, Band 26 E-UTRA/FDD, UID 10181 CAE, Channel 26965 (841.5MHz) With Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type	
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone	
Exposure Conditions				
			а : т ана	

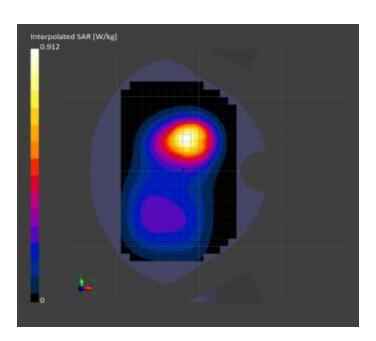
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	Band 2	6 LTE-FDD,	841.5,	9.79	0.941	42.642
HSL	10.00	E-UTRA/FD	10181-CAE	26965			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.783	0.804
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.514	0.502
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.10	-0.07
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		20.6
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		60.3



Report No.: SHE20090007-02SE Date: 2021-04-09 Page 137 of 161

Meas.46 Measurement Report for RS60, BACK, Band 26 E-UTRA/FDD, UID 10181 CAE, Channel 26965 (841.5MHz) Without Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type	
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone	
Exposure Conditions				
Exposure Conditions				

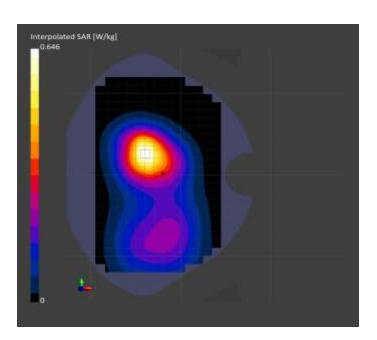
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	Band 26	LTE-FDD,	841.5,	9.79	0.941	42.642
HSL	10.00	E-UTRA/FD	10181-CAE	26965			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.563	0.572
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.373	0.365
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.14	-0.14
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		20.5
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		63.0



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 138 of 161

Meas.47 Measurement Report for RS60, CHEEK, Band 26 E-UTRA/FDD, UID 10175 CAG, Channel 26740 (819.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	/	Phone

Exposure Conditions

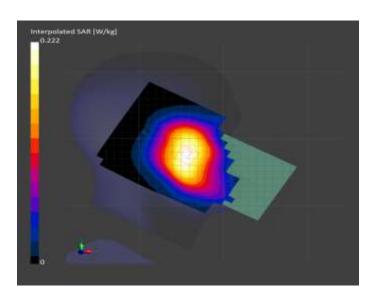
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	Band 26	LTE-FDD,	819.0,	9.79	0.882	42.531
HSL	0.00	E-UTRA/FD	10175-CAG	26740			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.193	0.204
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.133	0.156
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.14	-0.16
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		inf
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		77.1



Report No.: SHE20090007-02SE Date:

2021-04-09

Page 139 of 161

Meas.48 Measurement Report for RS60, FRONT, Band 26 E-UTRA/FDD, UID 10175 CAG, Channel 26740 (819.0MHz) With Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Туре
RS60,	193.0 x 93.0 x 16.5	/	Phone

Exposure Conditions

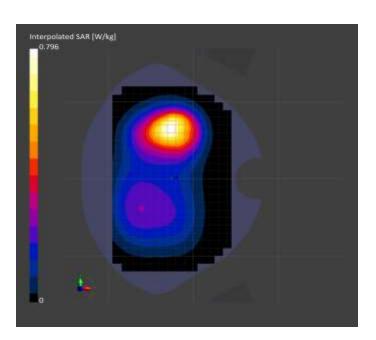
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	Band 2	6 LTE-FDD,	819.0,	9.79	0.882	42.531
HSL	10.00	E-UTRA/FD	10175-CAG	26740			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.691	0.692
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.457	0.428
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.08	-0.10
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		18.4
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		57.7



Report No.: SHE20090007-02SE Date:

2021-04-09

Page 140 of 161

Meas.49 Measurement Report for RS60, BACK, Band 26 E-UTRA/FDD, UID 10175 CAG, Channel 26740 (819.0MHz) Without Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	1	Phone

Exposure Conditions

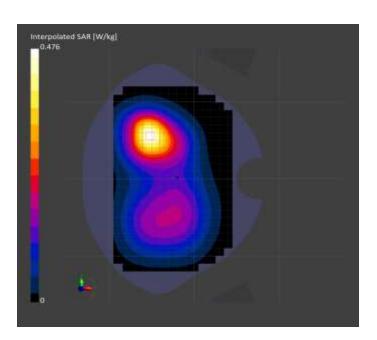
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	Band 26	LTE-FDD,	819.0,	9.79	0.882	42.531
HSL	10.00	E-UTRA/FD	10175-CAG	26740			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.413	0.407
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.274	0.258
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.07	0.00
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		21.2
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		61.1



Report No.: SHE20090007-02SE Date:

2021-04-09

Page 141 of 161

Meas.50 Measurement Report for RS60, CHEEK, Band 38, E-UTRA/TDD, UID 10172 CAG, Channel 38150 (2610.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone
Exposure Conditions			
Exposure Conditions			

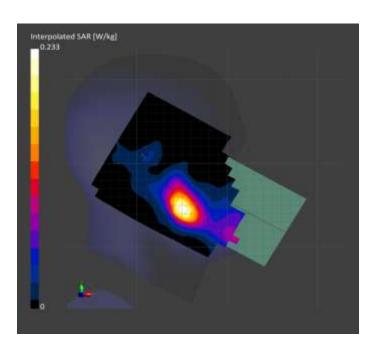
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	Band 38,	LTE-TDD,	2610.0,	7.45	2.033	40.569
HSL	0.00	E-UTRA/TD	10172-CAG	38150			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.184	0.187
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.094	0.101
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.19	-0.13
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		11.9
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		57.9



Report No.: SHE20090007-02SE Date: 20

2021-04-09

Page 142 of 161

Meas.51 Measurement Report for RS60, FRONT, Band 38, E-UTRA/TDD, UID 10172 CAG, Channel 38150 (2610.0MHz) With Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone
Exposure Conditions			

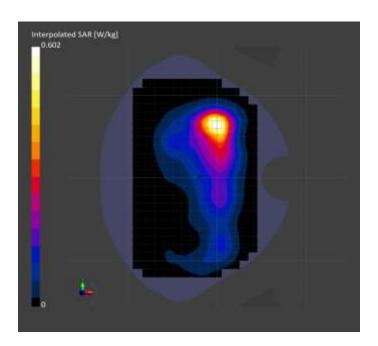
Phantom Position, Test Frequency [MHz], **TSL Conductivity** Band Group, Conversion TSL Section, TSL Distance [mm] UID **Channel Number** Permittivity Factor [S/m] Flat, FRONT, Band 38, LTE-TDD, 2610.0, 7.45 2.033 40.569 HSL 10.00 E-UTRA/TD 10172-CAG 38150 D

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.484	0.484
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.250	0.244
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.02	-0.02
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		13.9
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		49.1



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 143 of 161

Meas.52 Measurement Report for RS60, BACK, Band 38, E-UTRA/TDD, UID 10172 CAG, Channel 38150 (2610.0MHz) Without Scaner

Device under Test Properties

Name, Manufacturer Dimensions [mm]			IMEI DUT Type					
RS60, 193.0 x 93.0 x 16.5		015850000002015	Phone	Phone				
Exposure Co	nditions							
Phantom	Position,	Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL

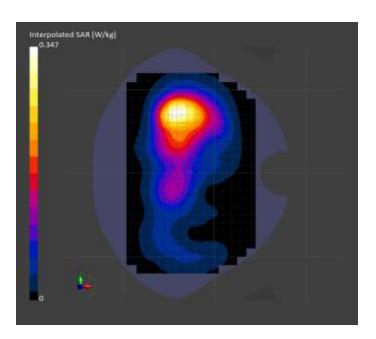
	,						-
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	Band 38	LTE-TDD,	2610.0,	7.45	2.033	40.569
HSL	10.00	E-UTRA/TD	10172-CAG	38150			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.279	0.269
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.153	0.149
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.17	-0.15
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		16.6
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		50.6



Report No.: SHE20090007-02SE Date: 20

2021-04-09

Page 144 of 161

Meas.53 Measurement Report for 7162S, CHEEK, Band 41, E-UTRA/TDD, UID 10172 CAG, Channel 41490 (2680.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
7162S,	193.0 x 93.0 x 16.5	015850000002015	Phone
Exposure Conditions			
Exposure conditions			

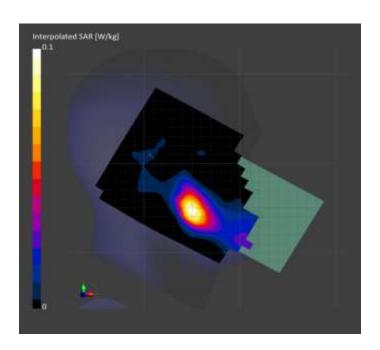
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	Band 41,	LTE-TDD,	2680.0,	7.45	2.032	40.573
HSL	0.00	E-UTRA/TD	10172-CAG	41490			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.076	0.077
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.037	0.039
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	0.16	-0.19
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		-inf
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		-368.0



Report No.: SHE20090007-02SE Date: 2021-04-09

E-UTRA/TD

D

Page 145 of 161

Meas.54 Measurement Report for RS60, FRONT, Band 41, E-UTRA/TDD, UID 10172 CAG, Channel 41490 (2680.0MHz) With Scaner

10172-CAG

Device under Test Properties

10.00

Name, Manufact	urer Di	mensions	[mm]		IMEI	DUT Ty	/ре	
RS60,	1	93.0 x 93.0	0 x 16.5		015850000002015	Phone		
Exposure Co Phantom	nditions Position, Test	Band		Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]			UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	Band	41,	LTE-TDD,	2680.0,	7.45	2.032	40.573

41490

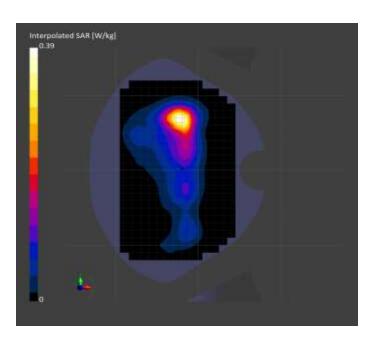
Hardware Setup

HSL

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.306	0.301
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.153	0.148
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.16	0.09
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		13.5
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		48.2



Report No.: SHE20090007-02SE Date: 20

: 2021-04-09

Page 146 of 161

Meas.55 Measurement Report for RS60, BACK, Band 41, E-UTRA/TDD, UID 10172 CAG, Channel 41490 (2680.0MHz) Without Scaner

Device under Test Properties

Name, Manufac	cturer C	imensions [m	ml	IMEI	DUT T	vne	
		-	•			, , , , , , , , , , , , , , , , , , ,	
RS60,		193.0 x 93.0 x	16.5	015850000002015	Phone		
Exposure Co	onditions						
Phantom	Position, Tes	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity

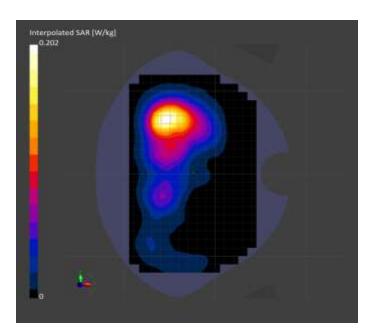
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	Band 41,	LTE-TDD,	2680.0,	7.45	2.032	40.573
HSL	10.00	E-UTRA/TD	10172-CAG	41490			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.162	0.158
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.087	0.084
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.16	-0.15
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		15.0
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		49.1



Report No.: SHE20090007-02SE Date:

2021-04-09

Page 147 of 161

Meas.56 Measurement Report for RS60, CHEEK, Band 66, E-UTRA/FDD, UID 10169 CAE, Channel 132072 (1720.0MHz)

Device under Test Properties

	-							
Name, Manufa	acturer	Din	nensions [m	m]	IMEI	DUT T	уре	
RS60,		19	3.0 x 93.0 x	16.5	015850000002015	Phone		
Exposure C	Conditions							
Phantom	Position	Test	Band	Group	Frequency [MHz]	Conversion	TSI Conductivity	TSL

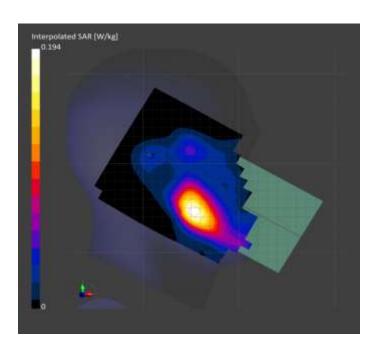
Phantom	Position, lest	Band	Group,	Frequency [MHZ],	Conversion	ISL Conductivity	ISL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	Band 66,	LTE-FDD,	1720.0,	8.45	1.413	41.749
HSL	0.00	E-UTRA/FD	10169-CAE	132072			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.162	0.166
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.094	0.104
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.20	0.07
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		13.0
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		69.0



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 148 of 161

Meas.57 Measurement Report for RS60, FRONT, Band 66, E-UTRA/FDD, UID 10169 CAE, Channel 132572 (1770.0MHz) With Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone

Exposure Conditions

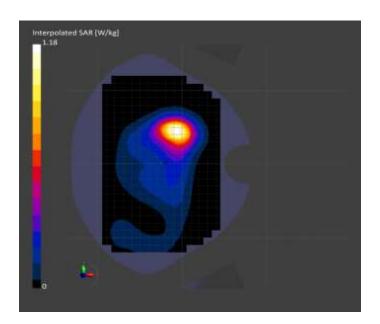
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	Band 66	, LTE-FDD,	1770.0,	8.45	1.388	40.892
HSL	10.00	E-UTRA/FD	10169-CAE	132572			
		D					

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.982	1.04
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.559	0.574
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	0.10	0.03
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		13.3
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		56.0



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 149 of 161

Meas.58 Measurement Report for RS60, BACK, Band 66, E-UTRA/FDD, UID 10169 CAE, Channel 132072 (1720.0MHz) Without Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Туре
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone
Exposure Conditions			

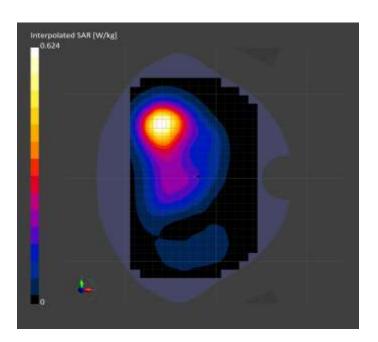
Phantom Position, Test Frequency [MHz], TSL Conductivity Band Group, Conversion TSL Section, TSL Distance [mm] UID **Channel Number** [S/m] Permittivity Factor Flat, BACK, Band 66, LTE-FDD, 1720.0, 8.45 1.413 41.749 HSL 10.00 E-UTRA/FD 132072 10169-CAE D

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.524	0.520
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.316	0.312
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.14	-0.09
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		18.0
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		59.8



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 150 of 161

Meas.59 Measurement Report for RS60, CHEEK, WLAN 2.4GHz, UID 10517 AAA, Channel 1 (2412.0MHz) Device under Test Properties

Name, Manufacturer Dimensi		mensions [mm	n] IMEI		DUT Ty	DUT Type		
RS60,	1	93.0 x 93.0 x 16	.5	015850000002015	Phone			
Exposure Conditions								
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL	
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity	
LeftHead,	CHEEK,	WLAN	WLAN,	2412.0,	7.65	1.713	38.757	

HSL	0.00	2.4GHz	10517-AAA

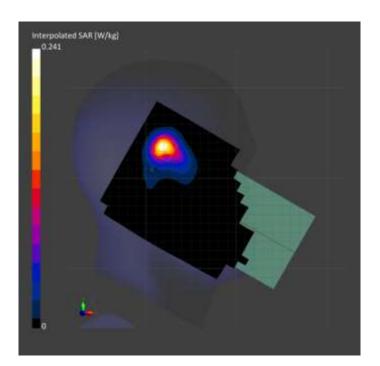
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Measurement Results

1

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.175	0.179
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.078	0.078
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.11	0.07
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		9.5
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		49.2



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 151 of 161

Meas.60 Measurement Report for RS60, FRONT, WLAN 2.4GHz, UID 10517 AAA, Channel 1 (2412.0MHz) With Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	01585000002015	Phone

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	WLAN	WLAN,	2412.0,	7.65	1.713	38.757
HSL	10.00	2.4GHz	10517-AAA	1			

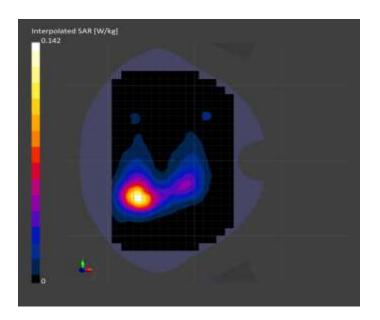
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.109	0.109
psSAR10g [W/Kg]	0.054	0.053
Power Drift [dB]	-0.14	-0.16
M2/M1 [%]		13.0
Dist 3dB Peak [mm]		49.7



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 152 of 161

Meas.61 Measurement Report for RS60, BACK, WLAN 2.4GHz, UID 10517 AAA, Channel 1 (2412.0MHz) Without Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	01585000002015	Phone

Exposure Conditions

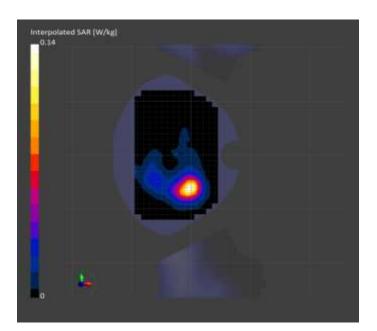
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	WLAN	WLAN,	2412.0,	7.65	1.713	38.757
HSL	10.00	2.4GHz	10517-AAA	1			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.112	0.109
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.058	0.055
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	0.15	0.20
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		13.0
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		56.5



Report No.: SHE20090007-02SE Date: 2021-04-09 Page 153 of 161

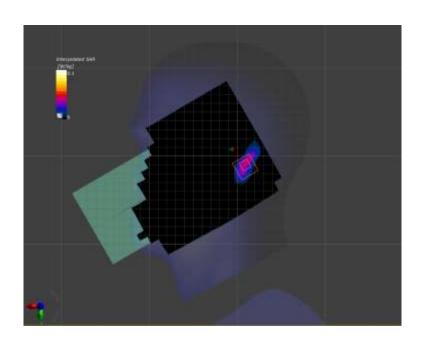
Meas.62 Measurement Report for RS60, TILT, WLAN 5GHz, UID 10525 AAB, Channel 44 (5220.0MHz) **Device under Test Properties**

		-					
Name, Manufacturer Dimensions [mm] IMEI		DUT T	DUT Type				
RS60,	19	193.0 x 93.0 x 16.5		015850000002015 Phone			
Exposure Co	onditions						
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
RightHead,	TILT,	WLAN 5GHz	WLAN,	5220.0,	5.53	4.509	35.256
HSL	0.00		10525-AAB	44			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup			Measurement Results	6	
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.041	0.037
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.014	0.009
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.12	-0.15
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		-inf
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		68.0



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 154 of 161

Meas.63 Measurement Report for RS60, FRONT, WLAN 5GHz, UID 10525 AAB, Channel 44 (5220.0MHz) With Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	WLAN 5GHz	WLAN,	5220.0,	5.53	4.509	35.526
HSL	10.00		10525-AAB	44			

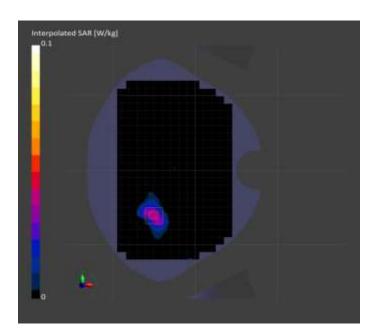
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Surface Detection	Unknown method	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.029	0.027
psSAR10g [W/Kg]	0.011	0.007
Power Drift [dB]	0.13	0.18
M2/M1 [%]		-inf
Dist 3dB Peak [mm]		-68.0



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 155 of 161

Meas.64 Measurement Report for RS60, BACK, WLAN 5GHz, UID 10525 AAB, Channel 44 (5220.0MHz) Without Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone

Exposure Conditions

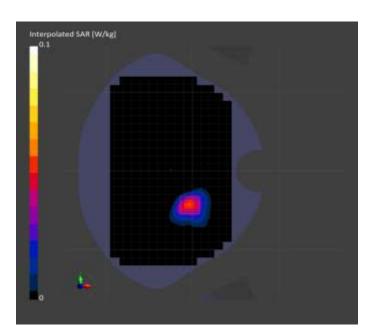
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	WLAN 5GHz	WLAN,	5220.0,	5.53	4.509	35.256
HSL	10.00		10525-AAB	44			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Measurement Results

Area Scan	Zoom Scan		Area Scan	Zoom Scan
140.0 x 240.0	22.0 x 22.0 x 22.0	psSAR1g [W/Kg]	0.041	0.039
10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/Kg]	0.016	0.012
3.0	1.4	Power Drift [dB]	0.16	0.15
VMS + 6p	VMS + 6p	M2/M1 [%]		-inf
Measured	Measured	Dist 3dB Peak [mm]		-78.0
	140.0 x 240.0 10.0 x 10.0 3.0 VMS + 6p	140.0 x 240.0 22.0 x 22.0 x 22.0 10.0 x 10.0 4.0 x 4.0 x 1.4 3.0 1.4 VMS + 6p VMS + 6p	140.0 x 240.0 22.0 x 22.0 x 22.0 psSAR1g [W/Kg] 10.0 x 10.0 4.0 x 4.0 x 1.4 psSAR10g [W/Kg] 3.0 1.4 Power Drift [dB] VMS + 6p VMS + 6p M2/M1 [%]	140.0 x 240.0 22.0 x 22.0 x 22.0 psSAR1g [W/Kg] 0.041 10.0 x 10.0 4.0 x 4.0 x 1.4 psSAR10g [W/Kg] 0.016 3.0 1.4 Power Drift [dB] 0.16 VMS + 6p VMS + 6p M2/M1 [%] 0.016



Report No.: SHE20090007-02SE Date: 2021-04-09

10528-AAB

Page 156 of 161

Meas.65 Measurement Report for RS60, TILT, WLAN 5GHz, UID 10528 AAB, Channel 165 (5825.0MHz) **Device under Test Properties**

Name, Manufact	turer Di	mensions [mm]		IMEI	DUT Ty	vpe	
RS60,	1	93.0 x 93.0 x 16.	5	015850000002015	Phone		
Exposure Co	onditions						
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
RightHead,	TILT,	WLAN 5GHz	WLAN,	5825.0,	4.75	5.151	34.754

165

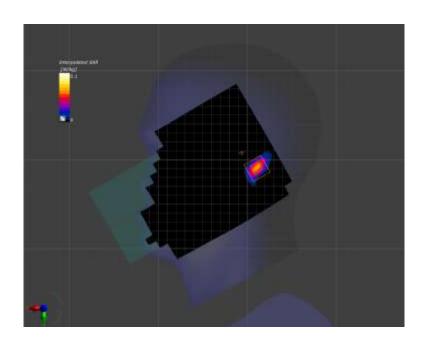
Hardware	Setup	

0.00

HSL

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup			Measurement Results	6	
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	22.0 x 22.0 x 22.0	psSAR1g [W/Kg]	0.042	0.048
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/Kg]	0.011	0.009
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	0.15	0.14
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		5.7
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		66.1



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 157 of 161

Meas.66 Measurement Report for RS60, FRONT, WLAN 5GHz, UID 10528 AAB, Channel 165 (5825.0MHz) With Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone

Exposure Conditions

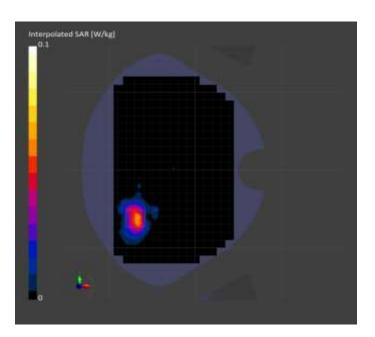
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	WLAN 5GHz	WLAN,	5825.0,	4.75	5.151	34.754
HSL	10.00		10528-AAB	165			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

Area Scan	Zoom Scan		Area Scan	Zoom Scan
140.0 x 240.0	22.0 x 22.0 x 22.0	psSAR1g [W/Kg]	0.047	0.042
10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/Kg]	0.017	0.010
3.0	1.4	Power Drift [dB]	0.09	0.16
VMS + 6p	VMS + 6p	M2/M1 [%]		-inf
Measured	Measured	Dist 3dB Peak [mm]		-64.0
	140.0 x 240.0 10.0 x 10.0 3.0 VMS + 6p	140.0 x 240.0 22.0 x 22.0 x 22.0 10.0 x 10.0 4.0 x 4.0 x 1.4 3.0 1.4 VMS + 6p VMS + 6p	140.0 x 240.0 22.0 x 22.0 x 22.0 psSAR1g [W/Kg] 10.0 x 10.0 4.0 x 4.0 x 1.4 psSAR10g [W/Kg] 3.0 1.4 Power Drift [dB] VMS + 6p VMS + 6p M2/M1 [%]	140.0 x 240.0 22.0 x 22.0 x 22.0 psSAR1g [W/Kg] 0.047 10.0 x 10.0 4.0 x 4.0 x 1.4 psSAR10g [W/Kg] 0.017 3.0 1.4 Power Drift [dB] 0.09 VMS + 6p VMS + 6p M2/M1 [%] 0.017



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 158 of 161

Meas.67 Measurement Report for RS60, BACK, WLAN 5GHz, UID 10528 AAB, Channel 165 (5825.0MHz) Without Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	01585000002015	Phone

Exposure Conditions

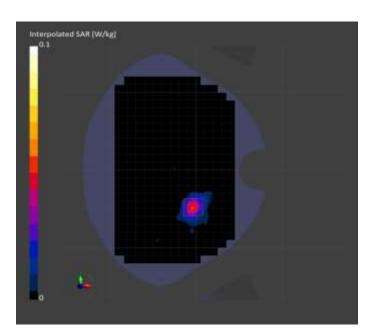
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	WLAN 5GHz	WLAN,	5825.0,	4.75	5.151	34.754
HSL	10.00		10528-AAB	165			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

Grid Extents [mm] 140.0 x 240.0 22.0 x 22.0 x 22.0 psSAR1g [W/Kg] 0.037 Grid Steps [mm] 10.0 x 10.0 4.0 x 4.0 x 1.4 psSAR10g [W/Kg] 0.013 Sensor Surface [mm] 3.0 1.4 Power Drift [dB] 0.15	
	0.032
Sensor Surface [mm] 3.0 1.4 Power Drift [dB] 0.15	0.008
	0.18
Surface Detection VMS + 6p VMS + 6p M2/M1 [%]	-inf
Scan Method Measured Measured Dist 3dB Peak [mm]	-72.0



Report No.: SHE20090007-02SE Date: 2021-04-09 Page 159 of 161

Meas.68 Measurement Report for RS60, CHEEK, ISM 2.4 GHz Band, UID 10034 CAA, Channel 39 (2441.0MHz) **Device under Test Properties**

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	015850000002015	Phone

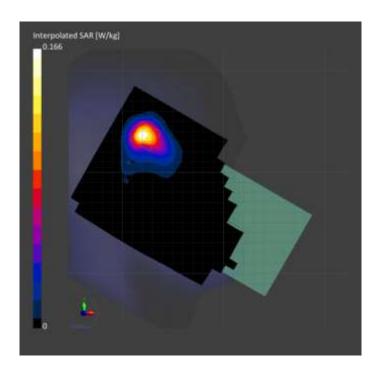
Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
LeftHead,	CHEEK,	ISM 2.4 GHz	Bluetooth,	2441.0,	7.65	1.726	38.895
HSL	0.00	Band	10034-CAA	39			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup			Measurement Results	6	
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.121	0.124
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.055	0.053
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.17	-0.12
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		8.1
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		49.7



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 160 of 161

Meas.69 Measurement Report for RS60, FRONT, ISM 2.4 GHz Band, UID 10030 CAA, Channel 39 (2441.0MHz) With Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	01585000002015	Phone

Exposure Conditions

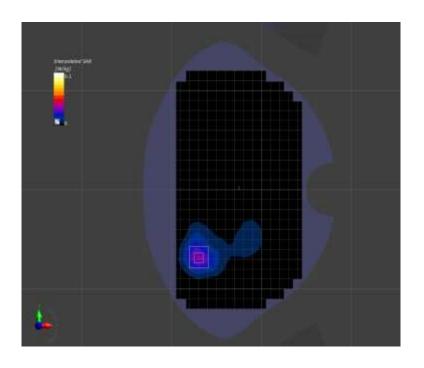
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	FRONT,	ISM 2.4 GHz	Bluetooth,	2441.0,	7.65	1.726	38.895
HSL	0.00	Band	10030-CAA	39			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.025	0.026
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.013	0.012
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.12	-0.07
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		8.9
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		50.0



Report No.: SHE20090007-02SE Date: 2021-04-09

Page 161 of 161

Meas.70 Measurement Report for RS60, BACK, ISM 2.4 GHz Band, UID 10036 CAA, Channel 39 (2441.0MHz) Without Scaner

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RS60,	193.0 x 93.0 x 16.5	01585000002015	Phone

Exposure Conditions

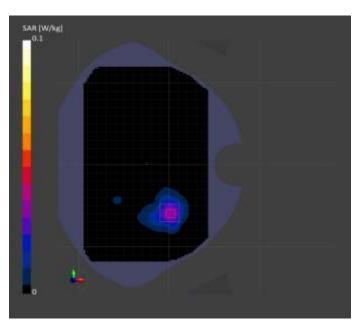
Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]	Permittivity
Flat,	BACK,	ISM 2.4 GHz	Bluetooth,	2441.0,	7.65	1.726	38.895
HSL	10.00	Band	10036-CAA	39			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	HBBL-600-10000	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30
1461	Charge:xxxx,		

Measurement Results

Area Scan	Zoom Scan		Area Scan	Zoom Scan
140.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.033	0.032
10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.017	0.015
3.0	1.4	Power Drift [dB]	-0.16	-0.17
Unknown method	VMS + 6p	M2/M1 [%]		-inf
Measured	Measured	Dist 3dB Peak [mm]		-73.0
	140.0 x 240.0 10.0 x 10.0 3.0 Unknown method	140.0 x 240.0 30.0 x 30.0 x 30.0 10.0 x 10.0 5.0 x 5.0 x 5.0 3.0 1.4 Unknown method VMS + 6p	140.0 x 240.0 30.0 x 30.0 x 30.0 psSAR1g [W/Kg] 10.0 x 10.0 5.0 x 5.0 x 5.0 psSAR10g [W/Kg] 3.0 1.4 Power Drift [dB] Unknown method VMS + 6p M2/M1 [%]	140.0 x 240.0 30.0 x 30.0 x 30.0 psSAR1g [W/Kg] 0.033 10.0 x 10.0 5.0 x 5.0 x 5.0 psSAR10g [W/Kg] 0.017 3.0 1.4 Power Drift [dB] -0.16 Unknown method VMS + 6p M2/M1 [%] M2/M1 [%]



End of the report***