



SAR TEST REPORT

For

Mediafly (HongKong) Co.,Limited

ROOM 09 27/F HO KING COMMERCIAL CENTRE 2-16 FA YUEN STREET MONGKOKKL

FCC ID: 2AZY4-T2000

Report Type: Original Report		Product Type: Tablet PC			
Report Number:	SZ4210419-1228	7E-SA			
Report Date:	2021-04-30				
Reviewed By:	Seven Liang SAR Engineer		Seven	Liang	
	Bay Area Compli 5F(B-West), 6F, Building D, Shihu Shenzhen, China Tel: +86-755-333 Fax: +86-755-333 www.baclcorp.co	7F, the 3rd na Rd, FuT 20018 320008	l Phase of Wan I	_i Industrial	

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data. This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

Attestation of Test Results						
	EUT Description	Tablet PC				
	Tested Model	T2000				
EUT Information	FCC ID	2AZY4-T2000				
	Serial Number	SZ4210419-12287E-SA-S_5BN				
	Test Date	2021/04/20 to 2021/04/21				
MOI	DE	Max. SAR Level(s) Reported(W/kg)	Limit (W/kg)			
GSM 850	1g Body SAR	0.28				
PCS 1900	1g Body SAR	0.51				
WCDMA Band 2	1g Body SAR	0.54				
WCDMA Band 5	1g Body SAR	0.12				
LTE Band 2	1g Body SAR	1.23				
LTE Band 4	1g Body SAR	1.17				
LTE Band 5	1g Body SAR	0.24	1.6			
LTE Band 7	1g Body SAR	1.18				
WIFI 2.4G	1g Body SAR	0.10				
WIFI 5.2G	1g Body SAR	0.21				
WIFI 5.8G	1g Body SAR	0.18				
Simultaneous	1g Body SAR	1.49				
Simultaneous	1g Body SAR	1.44(Hotspot)				

SAR Test Report 2 of 70

Report No.: SZ4210419-12287E-SA

Note: This wireless device has been shown to be capable of compliance for localized specific absorption rate (SAR) for General Population/Uncontrolled Exposure limits specified in **FCC 47 CFR part 2.1093** and has been tested in accordance with the measurement procedures specified in IEEE 1528-2013 and RF exposure KDB procedures.

The results and statements contained in this report pertain only to the device(s) evaluated.

KDB 248227 D01 802.11 Wi-Fi SAR v02r02

SAR Test Report 3 of 70

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY	5
EUT DESCRIPTION	6
TECHNICAL SPECIFICATION	7
REFERENCE, STANDARDS, AND GUIDELINES	8
SAR LIMITS	9
FACILITIES	10
DESCRIPTION OF TEST SYSTEM	11
EQUIPMENT LIST AND CALIBRATION	17
EQUIPMENTS LIST & CALIBRATION INFORMATION	17
SAR MEASUREMENT SYSTEM VERIFICATION	18
LIQUID VERIFICATION	
SYSTEM ACCURACY VERIFICATIONSAR SYSTEM VALIDATION DATA	
EUT TEST STRATEGY AND METHODOLOGY	
TEST POSITIONS FOR HAND-HELD USAGE OF THE DEVICE, NOT AT THE HEAD OR TORSO	
TEST POSITIONS FOR HAND-HELD USAGE OF THE DEVICE, NOT AT THE HEAD OR TOKSO	
TEST DISTANCE FOR SAR EVALUATION	29
SAR EVALUATION PROCEDURE	
CONDUCTED OUTPUT POWER MEASUREMENT	
PROVISION APPLICABLE	
RADIO CONFIGURATION	
MAXIMUM TARGET OUTPUT POWER	35
TEST RESULTS:	
STANDALONE SAR TEST EXCLUSION CONSIDERATIONS	
ANTENNA DISTANCE TO EDGE	
SAR TEST EXCLUSION FOR THE EUT EDGE CONSIDERATIONS RESULT	
SAR MEASUREMENT RESULTS	
SAR MEASUREMENT VARIABILITY	
SAR SIMULTANEOUS TRANSMISSION DESCRIPTION	
SAR PLOTS	65
APPENDIX A MEASUREMENT UNCERTAINTY	
APPENDIX B EUT TEST POSITION PHOTOS	68
APPENDIX C PROBE CALIBRATION CERTIFICATES	69
APPENDIX D DIPOLE CALIBRATION CERTIFICATES	70

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision	
0	SZ4210419-12287E-SA	Original Report	2021-04-30	

Report No.: SZ4210419-12287E-SA

Note:

1. 5G wifi SAR refer to the SAR report which issued by Bay Area Compliance Laboratories Corp(Dongguan)

SAR Test Report 5 of 70

EUT DESCRIPTION

This report has been prepared on behalf of *Mediafly (HongKong) Co.,Limited* and their product *Tablet PC*, Model: *T2000*, FCC ID: *2AZY4-T2000* or the EUT (Equipment under Test) as referred to in the rest of this report.

Report No.: SZ4210419-12287E-SA

*All measurement and test data in this report was gathered from production sample serial number: SZ4210419-12287E-SA-S_5BN (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2021-04-19.

Note: The coat should be used with the product, not alone

SAR Test Report 6 of 70

Technical Specification

Device Type:	Portable	
Exposure Category:	Population / Uncontrolled	
Antenna Type(s):	Internal Antenna	
DTM Type:	Class B	
Multi-slot Class:	GPRS/EGPRS (Class 12)	
Proximity sensor for SAR reduction:	None	
Body-Worn Accessories:	Headset	
Face-Head Accessories:	None	
	GSM Voice, GPRS/ EDGE Data,	
Operation Mode :	WCDMA(R99 (Voice+Data), HSDPA/HSUPA/HSPA+), FDD-LTE,	
	WLAN, Bluetooth	
Frequency Band:	GSM 850: 824-849 MHz(TX); 869-894 MHz(RX) PCS 1900: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX) LTE Band 4: 1710-1755 MHz(TX); 2110-2155 MHz(RX) LTE Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 7: 2500-2570 MHz(TX); 2620-2690MHz(RX) 2.4GWi-Fi:2412~2462MHz Bluetooth: 2402 MHz-2480 MHz	
Conducted RF Power:	GSM 850 : 32.14 dBm PCS 1900: 29.96 dBm WCDMA Band 2: 23.86 dBm WCDMA Band 5: 24.31 dBm LTE Band 2: 24.16 dBm LTE Band 4: 24.56 dBm LTE Band 5: 24.93 dBm LTE Band 7: 24.09 dBm WLAN (2.4G): 11.34 dBm Bluetooth(BDR/EDR): 7.67 dBm BLE_1M: 3.23 dBm BLE_2M: 2.99 dBm	
Power Source:	Rechargeable Battery	
Normal Operation:	Body-Support(The common way to use the tablet is with a leather case)	

Report No.: SZ4210419-12287E-SA

SAR Test Report 7 of 70

REFERENCE, STANDARDS, AND GUIDELINES

FCC:

The Report and Order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g as recommended by the ANSI/IEEE standard C95.1-1992 [6] for an uncontrolled environment (Paragraph 65). According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

Report No.: SZ4210419-12287E-SA

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in North America is 1.6 mW/g average over 1 gram of tissue mass.

CE:

The order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 2 mW/g as recommended by EN62209-1 for an uncontrolled environment. According to the Standard, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in Europe is 2 mW/g average over 10 gram of tissue mass.

The test configurations were laid out on a specially designed test fixture to ensure the reproducibility of measurements. Each configuration was scanned for SAR. Analysis of each scan was carried out to characterize the above effects in the device.

SAR Test Report 8 of 70

SAR Limits

FCC Limit(1g Tissue)

	SAR (W/kg)				
EXPOSURE LIMITS	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)			
Spatial Average (averaged over the whole body)	0.08	0.4			
Spatial Peak (averaged over any 1 g of tissue)	1.60	8.0			
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0			

CE Limit(10g Tissue)

	SAR (W/kg)				
	(General Population /	(Occupational /			
EXPOSURE LIMITS	Uncontrolled Exposure	Controlled Exposure			
	Environment)	Environment)			
Spatial Average (averaged over the whole body)	0.08	0.4			
Spatial Peak (averaged over any 10 g of tissue)	2.0	10			
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0			

Population/Uncontrolled Environments are defined as locations where there is the exposure of individual who have no knowledge or control of their exposure.

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

General Population/Uncontrolled environments Spatial Peak limit 1.6W/kg (FCC) & 2 W/kg (CE) applied to the EUT.

SAR Test Report 9 of 70

FACILITIES

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect data is located at 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

Report No.: SZ4210419-12287E-SA

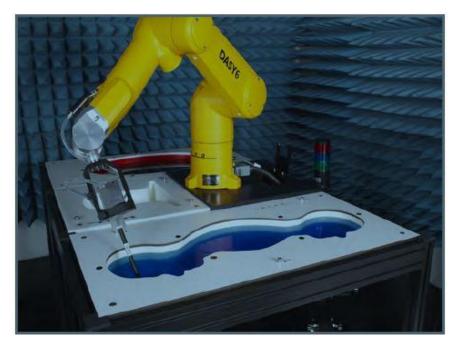
The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

SAR Test Report 10 of 70

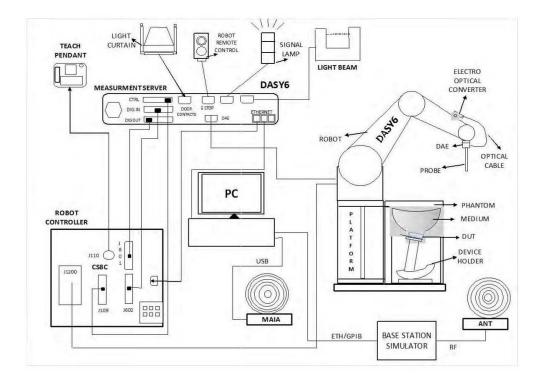
DESCRIPTION OF TEST SYSTEM

These measurements were performed with the automated near-field scanning system DASY6 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:



DASY6 System Description

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



SAR Test Report 11 of 70

- A standard high precision 6-axis robot (Staubli TX=RX family) 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 application, 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 DASY52 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.

DASY6 Measurement Server

The DASY6 measurement server is based on a PC/104 CPU board with a 400 MHz Intel ULV Celeron, 128 MB chip-disk and 128 MB RAM. The necessary circuits for communication with the DAE4 (or DAE3) electronics box, as well as the 16-bit AD converter system for optical detection and digital I/O interface 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 evaluations of field measurements and surface detection, controls robot movements, and handles safety operations. 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. Connection of devices from any other supplier could seriously damage the measurement server.

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.

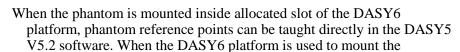
SAR Test Report 12 of 70

EX3DV4 E-Field Probes

Frequency	10 MHz to > 6 GHz Linearity: ±0.2 dB (30 MHz to 6 GHz)
Directivity	±0.3 dB in TSL (rotation around probe axis) ±0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 $\mu W/g$ to $>$ 100 mW/g Linearity: ± 0.2 dB (noise: typically $<$ 1 $\mu W/g$)
Dimensions	Overall length: 337 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); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI

SAM Twin Phantom

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: 1) Left Head, 2) Right Head, and 3) Flat Section. For larger devices, the use of the ELI-Phantom (shown behind DASY6) is required. For devices such as glasses with a wireless link, the Face Down Phantom is the most suitable (between the SAM Twin and ELI phantoms).



Phantom, some of the phantom teaching points cannot be reached by the robot in DASY5 V5.2. A special tool called P1a-P2aX-Former is provided to transform two of the three points, P1 and P2, to reachable locations. To use these new teaching points, a revised phantom configuration file is required.

In addition to our standard broadband liquids, the phantom can be used with the following tissue simulating liquids:





Sugar-water-based liquids can be left permanently in the phantom. Always cover the liquid when the system is not in use to prevent changes in liquid parameters due to water evaporation.

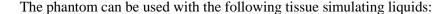
DGBE-based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom, and the phantom should be dried when the system is not in use (desirable at least once a week).

Do not use other organic solvents without previously testing the solvent resistivity of the phantom. Approximately 25 liters of liquid is required to fill the SAM Twin phantom.

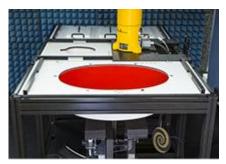
SAR Test Report 13 of 70

ELI Phantom

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30MHz to 6 GHz. ELI is fully compatible with the latest draft of the standard IEC 62209-2 and the use of all known tissue simulating liquids. ELI has been optimized for performance and can be integrated into a SPEAG standard phantom table. A cover is provided to prevent evaporation of water and changes in liquid parameters. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points.



Sugar-water-based liquids can be left permanently in the phantom.
 Always cover the liquid when the system is not in use to prevent changes in liquid parameters due to water evaporation.





- DGBE-based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should
 be taken out of the phantom, and the phantom should be dried when the system is not in use (desirable at
 least once a week).
- Do not use other organic solvents without previously testing the solvent resistivity of the phantom.

Approximately 25 liters of liquid is required to _fill the ELI phantom.

Robots

The DASY6 system uses the high-precision industrial robots TX60L, TX90XL, and RX160L from St aubli SA (France). The TX robot family - the successor of the well-known RX robot family - continues to offer the features important for DASY6 applications:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchrony motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)

The robots are controlled by the Staubli CS8c robot controllers. All information regarding the use and maintenance of the robot arm and the robot controller is provided

SAR Test Report 14 of 70

Calibration Frequency Points for EX3DV4 E-Field Probes SN: 7441 Calibrated: 2021/02/23

Calibration Frequency	Frequency	Range(MHz)	Conversion Factor			
Point(MHz)	From To		X	Y	Z	
750 Head	650	850	10.28	10.28	10.28	
900 Head	850	1000	9.80	9.80	9.80	
1450 Head	1350	1550	8.61	8.61	8.61	
1750 Head	1650	1850	8.39	8.39	8.39	
1900 Head	1850	1950	8.02	8.02	8.02	
2000 Head	1950	2100	8.07	8.07	8.07	
2300 Head	2200	2400	7.92	7.92	7.92	
2450 Head	2400	2550	7.63	7.63	7.63	
2600 Head	2550	2700	7.33	7.33	7.33	
3300 Head	3200	3400	7.21	7.21	7.21	
3500 Head	3400	3600	6.96	6.96	6.96	
3700 Head	3600	3800	6.65	6.65	6.65	
3900 Head	3800	4000	6.66	6.66	6.66	
4400 Head	4300	4500	6.45	6.45	6.45	
4600 Head	4500	4700	6.30	6.30	6.30	
4800 Head	4700	4900	6.24	6.24	6.24	
4950 Head	4900	5050	5.95	5.95	5.95	

Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 15mm 2 step integral, with 1.5mm interpolation used to locate the peak SAR area used for zoom scan assessments.

Where the system identifies multiple SAR peaks (which are within 25% of peak value) the system will provide the user with the option of assessing each peak location individually for zoom scan averaging.

Zoom Scan (Cube Scan Averaging)

The averaging zoom scan volume utilized in the DASY5 software is in the shape of a cube and the side dimension of a 1 g or 10 g mass is dependent on the density of the liquid representing the simulated tissue. A density of 1000 kg/m³ is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1g cube is 0mm, with the side length of the 10g cube is 21.5mm.

When the cube intersects with the surface of the phantom, it is oriented so that 3 vertices touch the surface of the shell or the center of a face is tangent to the surface. The face of the cube closest to the surface is modified in order to conform to the tangent surface.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 7 x7 x 7 (5mmx5mmx5mm) providing a volume of 30 mm in the X & Y & Z axis.

SAR Test Report 15 of 70

Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEC 62209-1:2016

Recommended Tissue Dielectric Parameters for Head and Body

Table A.3 - Dielectric properties of the head tissue-equivalent liquid

Report No.: SZ4210419-12287E-SA

Frequency	Relative permittivity	Conductivity (σ)
MHz	$arepsilon_{ m r}$	S/m
300	45,3	0,87
450	43,5	0,87
750	41,9	0,89
835	41,5	0,90
900	41,5	0,97
1 450	40,5	1,20
1 500	40,4	1,23
1 640	40,2	1,31
1 750	40,1	1,37
1 800	40,0	1,40
1 900	40,0	1,40
2 000	40,0	1,40
2 100	39,8	1,49
2 300	39,5	1,67
2 450	39,2	1,80
2 600	39,0	1,96
3 000	38,5	2,40
3 500	37,9	2,91
4 000	37,4	3,43
4 500	36,8	3,94
5 000	36,2	4,45
5 200	36,0	4,66
5 400	35,8	4,86
5 600	35,5	5,07
5 800	35,3	5,27
6 000	35,1	5,48

NOTE For convenience, permittivity and conductivity values at those frequencies which are not part of the original data provided by Drossos et al. [33] or the extension to 5 800 MHz are provided (i.e. the values shown *in italics*). These values were linearly interpolated between the values in this table that are immediately above and below these values, except the values at 6 000 MHz that were linearly extrapolated from the values at 3 000 MHz and 5 800 MHz.

SAR Test Report 16 of 70

EQUIPMENT LIST AND CALIBRATION

Equipments List & Calibration Information

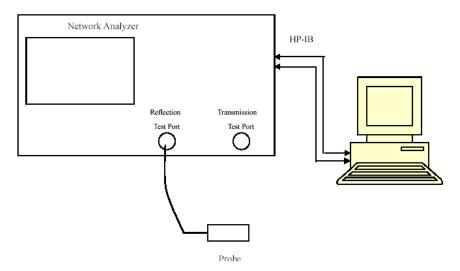
Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52 52.10.2	N/A	NCR	NCR
DASY6 Measurement Server	DASY6 6.0.31	N/A	NCR	NCR
Data Acquisition Electronics	DAE4	1562	2021/01/19	2022/01/18
E-Field Probe	EX3DV4	7441	2021/02/23	2021/02/22
Mounting Device	MD4HHTV5	SD 000 H01 KA	NCR	NCR
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Dipole, 750MHz	D750V3	1194	2020/1/13	2023/1/12
Dipole, 1800MHz	D1800V2	2d018	2020/10/15	2023/10/14
Dipole, 1900MHz	D1900V2	5d231	2020/1/14	2023/1/13
Dipole,2450MHz	D2450V2	751	2020/10/13	2023/10/12
Dipole, 2600MHz	D2600V2	1162	2019/10/2	2022/10/1
Simulated Tissue Liquid Head(500-9500MHz)	HBBL600-10000V6	180622-2	Each Time	
Network Analyzer	8753D	3410A08288	2020/7/31	2021/7/30
Dielectric Assessment Kit	DAK-3.5	1248	NCR	NCR
MXG Analog Signal Generator	N5181A	MY48180408	2020/7/31	2021/7/30
USB wideband power sensor	U2021XA	MY54250003	2020/7/31	2021/7/30
Power Amplifier	5S1G4	71377	NCR	NCR
Directional Coupler	4242-10	3307	NCR	NCR
Attenuator	6dB	773-6	NCR	NCR
Wireless communication tester	8960	MY48367501	2020/7/31	2021/7/30
WIDEBAND RADIO COMMUNICATION TESTER	CMW500	116218	2020/7/31	2021/7/30

Report No.: SZ4210419-12287E-SA

SAR Test Report 17 of 70

SAR MEASUREMENT SYSTEM VERIFICATION

Liquid Verification



Liquid Verification Setup Block Diagram

Liquid Verification Results

Б		Liquid Parameter		Target Value		Delta (%)		
Frequency (MHz)	Liquid Type	$\epsilon_{ m r}$	O' (S/ m)	$\epsilon_{ m r}$	O' (S/ m)	$\Delta \epsilon_{ m r}$	ΔΟ	Tolerance (%)
750	Simulated Tissue Liquid Head	42.725	0.883	41.90	0.89	1.97	-0.79	±5
824.2	Simulated Tissue Liquid Head	41.643	0.888	41.55	0.90	0.22	-1.33	±5
826.4	Simulated Tissue Liquid Head	41.981	0.894	41.54	0.90	1.06	-0.67	±5
829	Simulated Tissue Liquid Head	41.892	0.891	41.53	0.90	0.87	-1	±5
836.5	Simulated Tissue Liquid Head	41.689	0.929	41.5	0.90	0.46	3.22	±5
836.6	Simulated Tissue Liquid Head	42.162	0.927	41.5	0.90	1.6	3	±5
844	Simulated Tissue Liquid Head	41.659	0.939	41.5	0.91	0.38	3.19	±5
846.6	Simulated Tissue Liquid Head	41.453	0.943	41.5	0.91	-0.11	3.63	±5
848.8	Simulated Tissue Liquid Head	41.536	0.952	41.5	0.91	0.09	4.62	±5

^{*}Liquid Verification above was performed on 2021/04/20.

SAR Test Report 18 of 70

-		Liquid Parameter		Target Value		Delta (%)		
Frequency (MHz)	Liquid Type		O' (S/	E _r	O' (S/	$\Delta arepsilon_{ m r}$	ΔO	Tolerance (%)
		E _r	m)	o _r	m)	ΔCr	до	
1720	Simulated Tissue Liquid Head	40.87	1.377	40.13	1.35	1.84	2	±5
1732.5	Simulated Tissue Liquid Head	40.597	1.372	40.11	1.36	1.21	0.88	±5
1745	Simulated Tissue Liquid Head	41.661	1.39	40.1	1.37	3.89	1.46	±5
1800	Simulated Tissue Liquid Head	40.083	1.404	40.0	1.40	0.21	0.29	±5

^{*}Liquid Verification above was performed on 2021/04/20.

			Liquid Parameter		Target Value		elta 6)	
Frequency (MHz)	Liquid Type	$\epsilon_{ m r}$	O' (S/ m)	$\mathbf{\epsilon_r}$	O' (S/ m)	$\Delta \epsilon_{ m r}$	ΔΟ	Tolerance (%)
1850.2	Simulated Tissue Liquid Head	39.662	1.382	40.0	1.40	-0.85	-1.29	±5
1852.4	Simulated Tissue Liquid Head	39.313	1.392	40.0	1.40	-1.72	-0.57	±5
1860	Simulated Tissue Liquid Head	40.012	1.391	40.0	1.40	0.03	-0.64	±5
1880	Simulated Tissue Liquid Head	39.843	1.402	40.0	1.40	-0.39	0.14	±5
1900	Simulated Tissue Liquid Head	40.076	1.413	40.0	1.40	0.19	0.93	±5
1907.6	Simulated Tissue Liquid Head	40.127	1.427	40.0	1.40	0.32	1.93	±5
1909.8	Simulated Tissue Liquid Head	40.166	1.43	40.0	1.40	0.41	2.14	±5

^{*}Liquid Verification above was performed on 2021/04/20.

T.		Liquid Parameter		Target Value		Delta (%)		m 1
Frequency (MHz)	Liquid Type	$\epsilon_{ m r}$	O' (S/ m)	$\epsilon_{ m r}$	O' (S/ m)	$\Delta \epsilon_{ m r}$	ΔΟ	Tolerance (%)
2412	Simulated Tissue Liquid Head	38.774	1.808	39.28	1.77	-1.29	2.15	±5
2437	Simulated Tissue Liquid Head	38.534	1.838	39.22	1.79	-1.75	2.68	±5
2450	Simulated Tissue Liquid Head	38.396	1.852	39.20	1.80	-2.05	2.89	±5
2462	Simulated Tissue Liquid Head	38.416	1.873	39.17	1.82	-1.92	2.91	±5
2510	Simulated Tissue Liquid Head	38.603	1.907	39.12	1.86	-1.32	2.53	±5
2535	Simulated Tissue Liquid Head	38.189	1.928	39.09	1.89	-2.3	2.01	±5

^{*}Liquid Verification above was performed on 2021/04/20.

SAR Test Report 19 of 70

T.		Liquid Parameter		Target Value		Delta (%)		
Frequency (MHz)	Liquid Type	$\epsilon_{ m r}$	O' (S/ m)	$\epsilon_{ m r}$	O' (S/ m)	$\Delta \epsilon_{ m r}$	ΔΟ	Tolerance (%)
2560	Simulated Tissue Liquid Head	38.059	1.946	39.05	1.92	-2.54	1.35	±5
2600	Simulated Tissue Liquid Head	38.391	1.977	39.00	1.96	-1.56	0.87	±5

^{*}Liquid Verification above was performed on 2021/04/21.

SAR Test Report 20 of 70

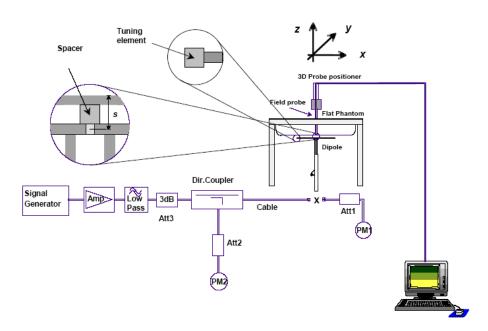
System Accuracy Verification

Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

The spacing distances in the **System Verification Setup Block Diagram** is given by the following:

- a) $s = 15 \text{ mm} \pm 0.2 \text{ mm for } 300 \text{ MHz} \le f \le 1000 \text{ MHz};$
- b) $s = 10 \text{ mm} \pm 0.2 \text{ mm}$ for $1\ 000 \text{ MHz} < f \le 3\ 000 \text{ MHz}$;
- c) $s = 10 \text{ mm} \pm 0.2 \text{ mm}$ for $3000 \text{ MHz} < f \le 6000 \text{ MHz}$.

System Verification Setup Block Diagram



System Accuracy Check Results

Date	Frequency Band (MHz)	Liquid Type	Input Pow er (mW)		asured SAR V/kg)	Normalized to 1W (W/kg)	Target Value (W/Kg)	Delta (%)	Tolerance (%)
2021/04/20	750	Head	100	1g	0.868	8.68	8.55	1.520	±10
2021/04/20	1800	Head	25	1g	1.03	41.2	39.3	4.835	±10
2021/04/20	1900	Head	25	1g	1.05	42.0	40.3	4.218	±10
2021/04/20	2450	Head	25	1g	1.32	52.8	53.0	-0.377	±10
2021/04/21	2600	Head	25	1g	1.45	58.0	55.4	4.693	±10

^{*}The SAR values above are normalized to 1 Watt forward power.

SAR Test Report 21 of 70

SAR SYSTEM VALIDATION DATA

System Performance 750 MHz

DUT: Dipole 750MHz; Type: D750V3; Serial: 1194

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 750 MHz; σ = 0.883 S/m; ϵ_r = 42.725; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

• Probe: ES3DV2 – SN7441; ConvF(10.28, 10.28, 10.28)

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn1562; Calibrated: 1/19/2021

Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA; Serial: 1962

• Measurement SW: DASY52, Version 52.10 (2);

Head 750MHz Pin=100mW/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.955 W/kg

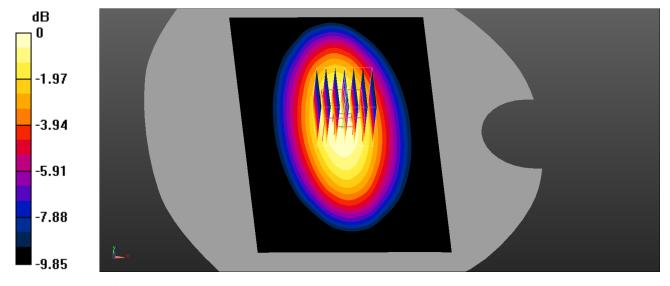
Head 750MHz Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.06 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.868 W/kg; SAR(10 g) = 0.566 W/kg

Maximum value of SAR (measured) = 0.923 W/kg



0 dB = 0.923 W/kg = -0.35 dBW/kg

SAR Test Report 22 of 70

System Performance 1800 MHz Head

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: 2d018

Communication System: UID 0, CW (0); Frequency: 1800 MHz;Duty Cycle: 1:1 Medium parameters used: f=1800 MHz; $\sigma=1.404$ S/m; $\epsilon_r=40.083$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

• Probe: ES3DV2 – SN7441; ConvF(8.39, 8.39, 8.39)

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn1562; Calibrated: 1/19/2021

Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA; Serial: 1962

• Measurement SW: DASY52, Version 52.10 (2);

Head 1800MHz Pin=25mW/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

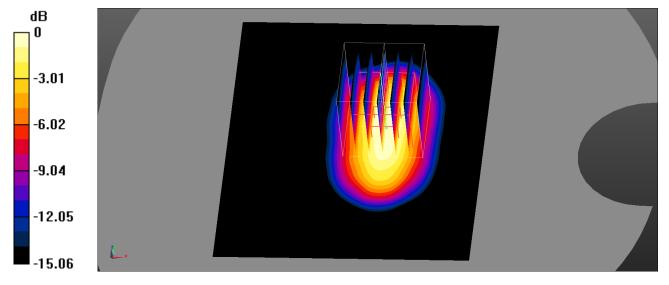
Head 1800MHz Pin=25mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.06 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.26 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.508 W/kg

Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.19 W/kg = 0.76 dBW/kg

SAR Test Report 23 of 70

System Performance 1900 MHz Head

DUT: Dipole 1900MHz; Type: D1900V2; Serial: 5d231

Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; $\sigma = 1.413$ S/m; $\epsilon_r = 40.076$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

• Probe: ES3DV2 – SN7441; ConvF(8.02, 8.02, 8.02)

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn1562; Calibrated: 1/19/2021

Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA; Serial: 1962

Measurement SW: DASY52, Version 52.10 (2);

Head 1900MHz Pin=25mW/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.22 W/kg

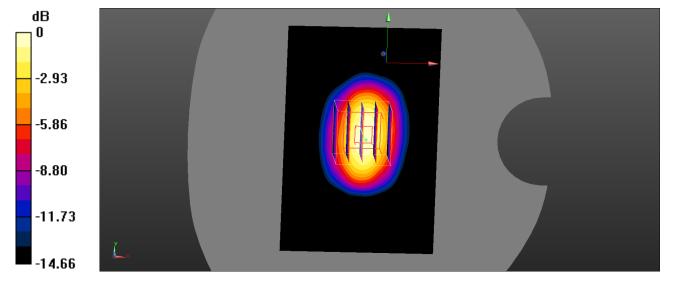
Head 1900MHz Pin=25mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.06 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.566 W/kg

Maximum value of SAR (measured) = 1.22 W/kg



0 dB = 1.22 W/kg = 0.86 dBW/kg

SAR Test Report 24 of 70

System Performance 2450 MHz Head

DUT: Dipole 2450MHz; Type: D2450V2; Serial: 751

Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; $\sigma = 1.852$ S/m; $\epsilon_r = 38.396$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

• Probe: ES3DV2 – SN7441; ConvF(7.63, 7.63, 7.63)

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1562; Calibrated: 1/19/2021

Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA; Serial: 1962

• Measurement SW: DASY52, Version 52.10 (2);

Head 2450MHz Pin=25mW/Area Scan (81x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.52 W/kg

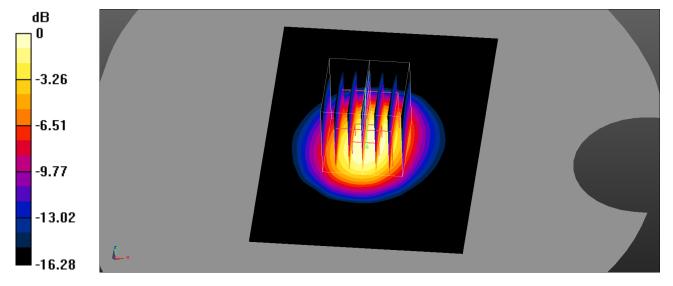
Head 2450MHz Pin=25mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.05 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.78 W/kg

SAR(1 g) = 1.32 W/kg; SAR(10 g) = 0.641 W/kg

Maximum value of SAR (measured) = 1.48 W/kg



0 dB = 1.48 W/kg = 1.70 dBW/kg

SAR Test Report 25 of 70

System Performance 2600 MHz Head

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1073

Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2600 MHz; $\sigma = 1.977$ S/m; $\epsilon_r = 38.391$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

• Probe: ES3DV2 – SN7441; ConvF(7.33, 7.33, 7.33)

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn1562; Calibrated: 1/19/2021

Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA; Serial: 1962

• Measurement SW: DASY52, Version 52.10 (2);

Head 2600MHz Pin=25mW/Area Scan (81x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.55 W/kg

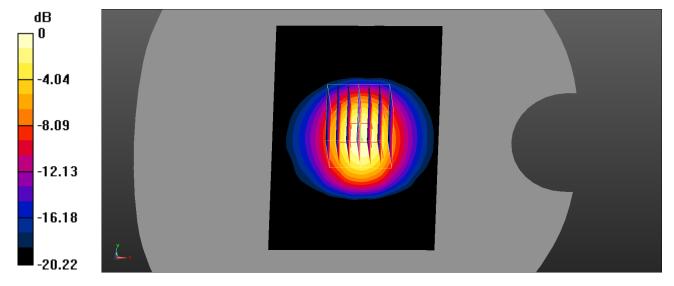
Head 2600MHz Pin=25mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.36 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 3.02 W/kg

SAR(1 g) = 1.45 W/kg; SAR(10 g) = 0.633 W/kg

Maximum value of SAR (measured) = 1.62 W/kg



0 dB = 1.62 W/kg = 2.10 dBW/kg

SAR Test Report 26 of 70

EUT TEST STRATEGY AND METHODOLOGY

Test Positions for Hand-held usage of the device, not at the head or torso

The device shall be placed directly against the flat phantom as shown in Figure J.1, for those sides of the device that are in contact with the hand during intended use.

Report No.: SZ4210419-12287E-SA

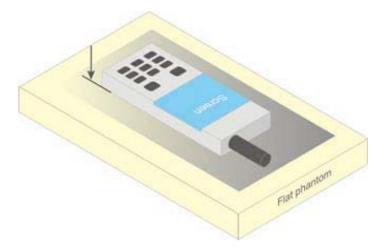


Figure J.1 - Test position for hand-held devices, not used at the head or torso

SAR Test Report 27 of 70

Test positions for body Supported and other configurations

A typical example of a body supported device is a wireless enabled laptop device that among other orientations may be supported on the thighs of a sitting user. To represent this orientation, the device shall be positioned with its base against the flat phantom. Other orientations may be specified by the manufacturer in the user instructions. If the intended use is not specified, the device shall be tested directly against the flat phantom in all usable orientations

Report No.: SZ4210419-12287E-SA

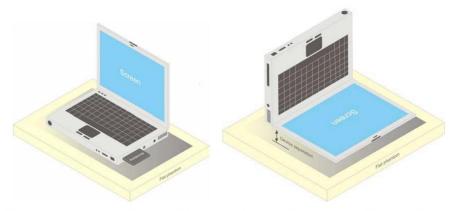
The screen portion of the device shall be in an open position at a 90 ° angle as seen in Figure 7a (left side), or at an operating angle specified for intended use by the manufacturer in the operating instructions. Where a body supported device has an integral screen required for normal operation, then the screen-side will not need to be tested if it ordinarily remains 200 mm from the body. Where a screen mounted antenna is present, this position shall be repeated with the screen against the flat phantom as shown in Figure 7a) (right side), if this is consistent with the intended use.

Other devices that fall into this category include tablet type portable computers and credit card transaction authorisation terminals, point-of-sale and/or inventory terminals. Where these devices may be torso or limb-supported, the same principles for body-supported devices are applied. The example in Figure 7b) shows a tablet form factor portable computer for which SAR should be separately assessed with d) each surface and

- e) the separation distances
- positioned against the flat phantom that correspond to the intended use as specified by the manufacturer. If the intended use is not specified in the user instructions, the device shall be tested directly against the flat phantom in all usable orientations.

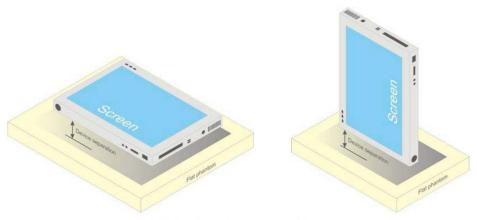
Some body-supported devices may allow testing with an external power supply (e.g. a.c.adapter) supplemental to the battery, but it shall be verified and documented in the measurement report that SAR is still conservative.

For devices that employ an external antenna with variable positions (e.g. swivel antenna), see 6.1.4.5 and Figure 6.

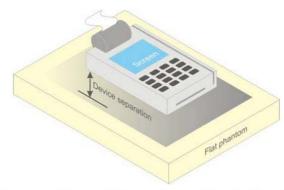


a) Portable computer with external antenna plug-in-radio-card (left side) or with internal antenna located in screen section (right side)

SAR Test Report 28 of 70



b) Tablet form factor portable computer



c) Wireless credit card transaction authorisation terminal

Figure 7 – Test positions for body supported devices

Test Distance for SAR Evaluation

For this case the EUT(Equipment Under Test) is set 0mm away from the phantom, the test distance is 0mm.

SAR Test Report 29 of 70

SAR Evaluation Procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the SAR value at a fixed location above the ear point or central position was used as a reference value for assessing the power drop. The SAR at this point is measured at the start of the test and then again at the end of the testing.

Report No.: SZ4210419-12287E-SA

- Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or radiating structures of the EUT, the horizontal grid spacing was 15 mm x 15 mm, and the SAR distribution was determined by integrated grid of 1.5mm x 1.5mm. Based on these data, the area of the maximum absorption was determined by spline interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.
- Step 3: Around this point, a volume of 30 mm x 30 mm x 30 mm was assessed by measuring 7x 7 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:
 - 1) The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
 - 2) The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one dimensional splines with the "Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the averages.
 - All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- Step 4: Re-measurement of the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation was repeated.

SAR Test Report 30 of 70

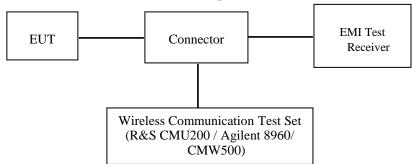
CONDUCTED OUTPUT POWER MEASUREMENT

Provision Applicable

The measured peak output power should be greater and within 5% than EMI measurement.

Test Procedure

The RF output of the transmitter was connected to the input of the EMI Test Receiver through Connector.



GSM/WCDMA/LTE

Radio Configuration

The power measurement was configured by the Wireless Communication Test Set.

GSM/GPRS

Function: Menu select > GSM Mobile Station > GSM 850/1900

Press Connection control to choose the different menus

Press RESET > choose all the reset all settings

Connection Press Signal Off to turn off the signal and change settings

Network Support > GSM + GPRS or GSM + EGSM

Main Service > Packet Data

Service selection > Test Mode A – Auto Slot Config. off

MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting

- > Ŝlot configuration > Uplink/Gamma
- > 33 dBm for GPRS 850
- > 30 dBm for GPRS 1900

BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel

Frequency Offset > + 0 Hz

Mode > BCCH and TCH

BCCH Level > -85 dBm (May need to adjust if link is not stabe)

BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]

Channel Type > Off

P0 > 4 dB

Slot Config > Unchanged (if already set under MS signal)

TCH > choose desired test channel

Hopping > Off

Main Timeslot > 3

Network Coding Scheme > CS4 (GPRS)

Bit Stream > 2E9-1 PSR Bit Stream

AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input

Connection Press Signal on to turn on the signal and change settings

SAR Test Report 31 of 70

WCDMA Release 99

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification. The EUT has a nominal maximum output power of 24dBm (+1.7/-3.7).

WCDMA	Loopback Mode	Test Mode 1		
	Rel99 RMC	12.2kbps RMC		
General Settings	Power Control Algorithm	Algorithm2		
	β_c/β_d	8/15		

HSDPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSDPA	HSDPA	HSDPA	HSDPA			
	Subset	1	2	3	4			
	Loopback Mode			Test Mode	1			
	Rel99 RMC		-	12.2kbps RM	IC			
	HSDPA FRC			H-Set1				
	Power Control			Algorithm	,			
WCDMA	Algorithm	Algorithm2						
General	$eta_{ m c}$	2/15	12/15	15/15	15/15			
Settings	$eta_{ ext{d}}$	15/15	15/15	8/15	4/15			
	$\beta_d(SF)$		64					
	$\beta_{\rm c}/\beta_{\rm d}$	2/15	12/15	15/8	15/4			
	$eta_{ m hs}$	4/15	24/15	30/15	30/15			
	MPR(dB)	0	0	0.5	0.5			
	DACK			8				
	DNAK			8				
	DCQI			8				
HSDPA	Ack-Nack repetition			3				
Specific	factor			3				
Settings	CQI Feedback			4ms				
	CQI Repetition			2				
	Factor							
	Ahs=βhs/ βc			30/15				

SAR Test Report 32 of 70

HSUPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA			
	Subset	1	2	3	4	5			
	Loopback Mode			Test Mode 1					
	Rel99 RMC		1	2.2kbps RM	C				
	HSDPA FRC	H-Set1							
	HSUPA Test		HS	UPA Loopb	ack				
	Power Control			Algorithm2					
WCDMA	Algorithm	11/17	C/15		2/15	15/15			
General	β_{c}	11/15	6/15	15/15	2/15	15/15			
Settings	β_d	15/15	15/15	9/15	15/15	0			
	$\beta_{\rm ec}$	209/225	12/15	30/15	2/15	5/15			
	β_c/β_d	11/15	6/15	15/9	2/15				
	β_{hs}	22/15	12/15	30/15	4/15	5/15			
	CM(dB)	1.0	3.0	2.0	3.0	1.0			
	MPR(dB)	0	2	1	2	0			
	DACK	8							
	DNAK			8					
	DCQI	-Nack ion factor 3							
HSDPA	Ack-Nack								
Specific	repetition factor								
Settings									
	CQI Repetition 2								
	Factor								
	Ahs= β_{hs}/β_{c}			30/15					
	DE-DPCCH	6	8	8	5	7			
	DHARQ	0	0	0	0	0			
	AG Index	20	12	15	17	21			
	ETFCI	75	67	92	71	81			
	Associated Max	242.1	174.0	402.0	207.0	200.0			
	UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9			
	корѕ								
		E-TFC	T 11 E	E-TFCI	F TEC	II 11 E			
HSUPA		E-TFC		11		I PO 4			
Specific		E-TF		E-TFCI		CI 67			
Settings		E-TFC		PO4		I PO 18			
		E-TF		E-TFCI	E-TF				
	Reference E_FCls	E-TFC	-	92		I PO23			
	Reference E_Pers	E-TF		E-TFCI		CI 75			
		E-TFC		PO 18		I PO26			
		E-TF			E-TF				
		E-TFCI				I PO 27			

SAR Test Report 33 of 70

FDD-LTE

For UE Power Class 1 and 3, the allowed Maximum Power Reduction (MPR) for the maximum output power in Table 6.2.2-1due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1.

Report No.: SZ4210419-12287E-SA

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1 and 3

Modulation	Cha	Channel bandwidth / Transmission bandwidth (N _{RB})							
	1.4	3.0	5	10	15	20			
	MHz	MHz	MHz	MHz	MHz	MHz			
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1		
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1		
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2		

For UE Power Class 1 and 3 the specific requirements and identified sub clauses are specified in Table 6.2.4-1 along with the allowed A-MPR values that may be used to meet these requirements. The allowed A-MPR values specified below in Table 6.2.4-1 to 6.2.4-15 are in addition to the allowed MPR requirements specified in sub clause 6.2.3.

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (subclause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N _{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	N/A
			3	>5	≤ 1
		2 4 40 22 25	5	>6	≤1
NS_03	6.6.2.2.1	2, 4,10, 23, 25, 35, 36	10	>6	≤ 1
		33, 30	15	>8	≤1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20		6.2.4-4
NS_05	6.6.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	N/A
NS_07	6.6.2.2.3 6.6.3.3.2	13	10	Table	6.2.4-2
NS_08	6.6.3.3.3	19	10, 15	> 44	≤3
NS_09	6.6.3.3.4	21	10, 15	> 40 > 55	≤1 ≤2
NS_10		20	15, 20		6.2.4-3
NS_11	6.6.2.2.1	23	1.4, 3, 5, 10, 15, 20		6.2.4-5
NS_12	6.6.3.3.5	26	1.4, 3, 5	Table	6.2.4-6
NS_13	6.6.3.3.6	26	5	Table	6.2.4-7
NS_14	6.6.3.3.7	26	10, 15	Table	6.2.4-8
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15		6.2.4-9 6.2.4-10
NS_16	6.6.3.3.9	27	3, 5, 10		, Table 6.2.4-12, 6.2.4-13
NS_17	6.6.3.3.10	28	5, 10	Table 5.6-1	N/A
NS_18	6.6.3.3.11	28	5 10, 15, 20	≥2 ≥1	≤ 1 ≤ 4
NS 19	6.6.3.3.12	44	10, 15, 20		6.2.4-14
NS_20	6.2.2 6.6.2.2.1 6.6.3.2	23	5, 10, 15, 20		6.2.4-15
NS_32	-	-	-	-	-

SAR Test Report 34 of 70

Maximum Target Output Power

Max Target Power(dBm)								
N. 1 (D. 1		Channel						
Mode/Band	Low	Middle	High					
GSM 850	32.5	32.5	32.5					
GPRS 1 TX Slot	30.5	30.5	30.5					
GPRS 2 TX Slot	30.0	30.0	30.0					
GPRS 3 TX Slot	28.5	28.5	28.5					
GPRS 4 TX Slot	27.0	27.0	27.0					
EGPRS 1 TX Slot	26.0	26.0	26.0					
EGPRS 2 TX Slot	24.0	24.0	24.0					
EGPRS 3 TX Slot	22.0	22.0	22.0					
EGPRS 4 TX Slot	20.0	20.0	20.0					
PCS 1900	30.0	30.0	30.0					
GPRS 1 TX Slot	30.0	30.0	30.0					
GPRS 2 TX Slot	29.0	29.0	29.0					
GPRS 3 TX Slot	27.0	27.0	27.0					
GPRS 4 TX Slot	26.0	26.0	26.0					
EGPRS 1 TX Slot	25.0	25.0	25.0					
EGPRS 2 TX Slot	23.0	23.0	23.0					
EGPRS 3 TX Slot	20.5	20.5	20.5					
EGPRS 4 TX Slot	19.0	19.0	19.0					
WCDMA Band 2	23.9	23.9	23.9					
WCDMA Band 5	24.5	24.5	24.5					
LTE Band 2	24.5	24.5	24.5					
LTE Band 4	25.0	25.0	25.0					
LTE Band 5	25.0	25.0	25.0					
LTE Band 7	24.5	24.5	24.5					
WLAN 2.4G	11.5	11.5	11.5					
Bluetooth BDR/EDR	8.0	8.0	8.0					
Bluetooth BLE_1M	3.5	3.5	3.5					
Bluetooth BLE_2M	3.0	3.0	3.0					

SAR Test Report 35 of 70

Test Results:

GSM:

Band	Channel No.	Frequency	RF Output Power
Danu	Chamie No.	(MHz)	(dBm)
GSM 850	128	824.2	31.78
	190	836.6	31.87
	251	848.8	32.14
	512	1850.2	29.54
PCS 1900	661	1880	29.74
	810	1909.8	29.96

GPRS:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)				
			1 slot	2 slots	3 slots	4 slots	
GSM 850	128	824.2	30.07	29.63	28.17	26.48	
	190	836.6	30.13	29.56	28.23	26.20	
	251	848.8	30.26	29.80	28.21	26.36	
PCS 1900	512	1850.2	29.60	28.81	26.76	25.53	
	661	1880	29.36	28.64	26.87	25.68	
	810	1909.8	29.60	28.56	26.85	25.29	

EGPRS:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	25.81	23.61	21.51	18.98
	190	836.6	25.82	23.43	21.50	19.19
	251	848.8	25.85	23.80	21.68	19.53
PCS 1900	512	1850.2	24.48	22.52	20.35	18.23
	661	1880	24.75	22.55	20.17	18.19
	810	1909.8	24.67	22.25	20.25	18.83

For SAR, the time based average power is relevant, the difference in between depends on the duty cycle of the TDMA signal.

Number of Time slot	1	2	3	4
Duty Cycle	1:8	1:4	1:2.66	1:2
Time based Ave. power compared to slotted Ave. power	-9 dB	-6 dB	-4.25 dB	-3 dB
Crest Factor	8	4	2.66	2

SAR Test Report 36 of 70

The time based average power for GPRS

Dond	Band Channel Frequency (MHz)		Time based average Power (dBm)						
Danu			1 slot	2 slot	3 slots	4 slots			
GSM 850	128	824.2	21.07	23.63	23.92	23.48			
	190	836.6	21.13	23.56	23.98	23.20			
	251	848.8	21.26	23.80	23.96	23.36			
	512	1850.2	20.60	22.81	22.51	22.53			
PCS 1900	661	1880	20.36	22.64	22.62	22.68			
	810	1909.8	20.60	22.56	22.60	22.29			

The time based average power for EGPRS

Dand	Channel	Frequency	Time based average Power (dBm)						
Band	Band No.		1 slot	2 slot	3 slots	4 slots			
GSM 850	128	824.2	16.81	17.61	17.26	15.98			
	190	836.6	16.82	17.43	17.25	16.19			
	251	848.8	16.85	17.80	17.43	16.53			
	512	1850.2	15.48	16.52	16.10	15.23			
PCS 1900	661	1880	15.75	16.55	15.92	15.19			
	810	1909.8	15.67	16.25	16.00	15.83			

Note:

- 1. Rohde & Schwarz Radio Communication Tester (CMU200) was used for the measurement of GSM peak and average output power for active timeslots.
- 2. For GSM voice, 1 timeslot has been activated with power level 5 (850 MHz band) and 0 (1900 MHz band).
- 3. For GPRS, 1, 2, 3 and 4 timeslots has been activated separately with power level 3(850 MHz band) and 3(1900 MHz band).

SAR Test Report 37 of 70

WCDMA Band 2:

Test	Test Mode	3GPP Sub	Averaged Mean Power (dBm)				
Condition	Test Wiode	Test	Low Frequency	Mid Frequency	High Frequency		
	RMC	12.2k	22.71	22.58	22.75		
		1	23.05	23.68	23.42		
	HSDPA	2	23.02	23.84	23.08		
	пзрга	3	23.07	23.86	23.32		
		4	22.92	23.83	23.56		
Normal		1	23.01	23.24	22.86		
		2	23.18	23.12	22.67		
	HSUPA	3	23.07	23.15	22.48		
		4	22.92	23.43	23.15		
		5	22.79	23.12	22.89		
	HSPA+	1	22.53	22.35	22.44		

WCDMA Band 5:

Test	Test Mode	3GPP Sub	Averaged Mean Power (dBm)				
Condition	Test Wiode	Test	Low Frequency	Mid Frequency	High Frequency		
	RMC	12.2k	23.55	23.76	23.63		
		1	23.03	24.18	23.32		
	HSDPA	2	23.06	24.01	23.23		
	пзрга	3	23.12	24.17	23.36		
		4	23.12	24.06	23.45		
Normal		1	23.92	24.31	24.19		
		2	23.95	24.21	24.22		
	HSUPA	3	23.89	24.13	24.12		
		4	24.00	24.31	24.29		
		5	23.75	24.27	24.09		
	HSPA+	1	22.83	22.76	22.84		

Note:

- 1. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement Channel) Configured in Test Loop Model 1.
- 2. KDB 941225 D01-Body SAR is not required for HSDPA/HSPA+ when the maximum average output of each RF channel is less than ¼ dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.

SAR Test Report 38 of 70

			T .	Meas	Ave	Tx Power (d)	Bm)
BW	Modulation	Resource Block Size&	Target MP	M	Low	Mid	High
(MHz)		Resource Block Offset	R	P R	Channel 1850.7MHz	Channel 1880MHz	Channel 1909.3MHz
		RB Size=1, RB Offset=0	0	0	23.26	23.71	22.90
		RB Size=1, RB Offset=3	0	0	23.27	23.64	22.97
	-	RB Size=1, RB Offset=5	0	0	23.27	23.69	22.92
	QPSK	RB Size=3, RB Offset=0	1	1	23.36	23.82	22.79
	-	RB Size=3, RB Offset=3	1	1	23.37	23.82	22.79
	-	RB Size=6, RB Offset=0	1	1	22.93	23.16	22.92
1.4		RB Size=1, RB Offset=0	1	1	22.96	22.58	22.23
	-	RB Size=1, RB Offset=3	1	1	22.96	22.38	22.43
	-	·					
	16QAM	RB Size=1, RB Offset=5	1	1	23.04	22.37	22.51
	-	RB Size=3, RB Offset=0	2	2	23.21	23.87	22.91
	-	RB Size=3, RB Offset=3	2	2	23.36	23.83	22.95
		RB Size=6, RB Offset=0	2	2	21.36	21.87	21.08
DXX		Resource Block Size&	Target MP	Meas M	Low	Tx Power (d)	/
BW		Resource Block Size			Low	viia	High
(MHz) Modulation	Modulation						
(MHz)	Modulation	Resource Block Offset	MP R	P R	Channel 1851.5MHz	Channel 1880MHz	Channel 1908.5MHz
(MHz)	Modulation			P	Channel	Channel	Channel
(MHz)	Modulation	Resource Block Offset	R	P R	Channel 1851.5MHz	Channel 1880MHz	Channel 1908.5MHz
(MHz)		RB Size=1, RB Offset=0	R 0	P R 0	Channel 1851.5MHz 23.18	Channel 1880MHz 23.73	Channel 1908.5MHz 22.69
(MHz)	Modulation QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=8	R 0 0	P R 0 0	Channel 1851.5MHz 23.18 23.42	Channel 1880MHz 23.73 23.64	Channel 1908.5MHz 22.69 22.63
(MHz)		RB Size=1, RB Offset=0 RB Size=1, RB Offset=8 RB Size=1, RB Offset=14	0 0 0	P R 0 0 0	Channel 1851.5MHz 23.18 23.42 23.17	Channel 1880MHz 23.73 23.64 23.73	Channel 1908.5MHz 22.69 22.63 22.81
		RB Size=1, RB Offset=0 RB Size=1, RB Offset=8 RB Size=1, RB Offset=14 RB Size=6, RB Offset=0	0 0 0 1	P R 0 0 0 1	Channel 1851.5MHz 23.18 23.42 23.17 22.74	Channel 1880MHz 23.73 23.64 23.73 23.34	Channel 1908.5MHz 22.69 22.63 22.81 22.29
(MHz)		RB Size=1, RB Offset=0 RB Size=1, RB Offset=8 RB Size=1, RB Offset=14 RB Size=6, RB Offset=0 RB Size=6, RB Offset=9	0 0 0 1 1	P R 0 0 0 1 1 1	Channel 1851.5MHz 23.18 23.42 23.17 22.74 22.59	Channel 1880MHz 23.73 23.64 23.73 23.34 23.18	Channel 1908.5MHz 22.69 22.63 22.81 22.29 22.39
		RB Size=1, RB Offset=0 RB Size=1, RB Offset=8 RB Size=1, RB Offset=14 RB Size=6, RB Offset=0 RB Size=6, RB Offset=9 RB Size=15, RB Offset=0	0 0 0 1 1 1	P R 0 0 0 1 1 1 1	Channel 1851.5MHz 23.18 23.42 23.17 22.74 22.59 22.89	Channel 1880MHz 23.73 23.64 23.73 23.34 23.18 23.28	Channel 1908.5MHz 22.69 22.63 22.81 22.29 22.39 22.41
	QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=8 RB Size=1, RB Offset=14 RB Size=6, RB Offset=0 RB Size=6, RB Offset=9 RB Size=15, RB Offset=0 RB Size=11, RB Offset=0 RB Size=11, RB Offset=0	0 0 0 1 1 1 1	P R 0 0 0 1 1 1 1 1 1	Channel 1851.5MHz 23.18 23.42 23.17 22.74 22.59 22.89 22.47	Channel 1880MHz 23.73 23.64 23.73 23.34 23.18 23.28 23.16	Channel 1908.5MHz 22.69 22.63 22.81 22.29 22.39 22.41 21.44
		RB Size=1, RB Offset=0 RB Size=1, RB Offset=8 RB Size=1, RB Offset=14 RB Size=6, RB Offset=0 RB Size=6, RB Offset=9 RB Size=15, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=8	0 0 0 1 1 1 1 1	P R 0 0 0 1 1 1 1 1 1 1 1	Channel 1851.5MHz 23.18 23.42 23.17 22.74 22.59 22.89 22.47 22.41	Channel 1880MHz 23.73 23.64 23.73 23.34 23.18 23.28 23.16 23.14	Channel 1908.5MHz 22.69 22.63 22.81 22.29 22.39 22.41 21.44 21.52
	QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=8 RB Size=1, RB Offset=14 RB Size=6, RB Offset=0 RB Size=6, RB Offset=9 RB Size=15, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=14 RB Size=1, RB Offset=14	0 0 0 1 1 1 1 1 1	P R 0 0 0 1 1 1 1 1 1 1 1 1 1	Channel 1851.5MHz 23.18 23.42 23.17 22.74 22.59 22.89 22.47 22.41 22.34	Channel 1880MHz 23.73 23.64 23.73 23.34 23.18 23.28 23.16 23.14 23.13	Channel 1908.5MHz 22.69 22.63 22.81 22.29 22.39 22.41 21.44 21.52 21.49

Report No.: SZ4210419-12287E-SA

SAR Test Report 39 of 70

				3.5	Avo	e Tx Power (dE	Bm)	
BW (MHz)	Modulation	Resource Block Size& Resource Block Offset	Target MP R	Meas M PR	Low Channel	Mid Channel	High Channel	
					1852.5MHz	1880MHz	1907.5MHz	
		RB Size=1, RB Offset=0	0	0	23.08	23.90	22.65	
		RB Size=1, RB Offset=13	0	0	23.11	23.82	22.69	
	QPSK	RB Size=1, RB Offset=24	0	0	23.30	23.73	22.73	
	QISIC	RB Size=15, RB Offset=0	1	1	22.87	23.34	22.20	
		RB Size=15, RB Offset=10	1	1	22.71	23.10	22.40	
5		RB Size=25, RB Offset=0	1	1	22.66	23.31	22.19	
3		RB Size=1, RB Offset=0	1	1	21.44	22.85	21.35	
		RB Size=1, RB Offset=13	1	1	21.46	22.90	21.34	
	160AM	RB Size=1, RB Offset=24	1	1	21.55	22.81	21.51	
	16QAM	RB Size=15, RB Offset=0	2	2	22.87	23.32	22.14	
		RB Size=15, RB Offset=10	2	2	22.82	23.32	22.42	
		RB Size=25, RB Offset=0	2	2	21.41	21.93	20.79	
			Target MP R	Meas	Ave Tx Power (dBm)			
BW (MHz)	Modulation	Resource Block Size& Resource Block Offset		M PR	Low Channel	Mid Channel	High Channel	
					1855MHz	1880MHz	1905MHz	
		RB Size=1, RB Offset=0	0	0	23.17	24.05	22.62	
		RB Size=1, RB Offset=0 RB Size=1, RB Offset=25	0 0	0	23.17 23.45	24.05 23.75	22.62 22.68	
	ODGN			Ŭ				
	QPSK	RB Size=1, RB Offset=25	0	0	23.45	23.75	22.68	
	QPSK	RB Size=1, RB Offset=25 RB Size=1, RB Offset=49	0 0	0	23.45 23.64	23.75 23.64	22.68 22.93	
10	QPSK	RB Size=1, RB Offset=25 RB Size=1, RB Offset=49 RB Size=25, RB Offset=0	0 0 1	0 0 1	23.45 23.64 22.77	23.75 23.64 23.35	22.68 22.93 22.04	
10	QPSK	RB Size=1, RB Offset=25 RB Size=1, RB Offset=49 RB Size=25, RB Offset=0 RB Size=25, RB Offset=25	0 0 1 1	0 0 1 1	23.45 23.64 22.77 23.19	23.75 23.64 23.35 23.30	22.68 22.93 22.04 22.22	
10	QPSK	RB Size=1, RB Offset=25 RB Size=1, RB Offset=49 RB Size=25, RB Offset=0 RB Size=25, RB Offset=25 RB Size=50, RB Offset=0	0 0 1 1 1	0 0 1 1 1 1	23.45 23.64 22.77 23.19 23.01	23.75 23.64 23.35 23.30 23.28	22.68 22.93 22.04 22.22 22.32	
10		RB Size=1, RB Offset=25 RB Size=1, RB Offset=49 RB Size=25, RB Offset=0 RB Size=25, RB Offset=25 RB Size=50, RB Offset=0 RB Size=1, RB Offset=0	0 0 1 1 1 1	0 0 1 1 1	23.45 23.64 22.77 23.19 23.01 22.66	23.75 23.64 23.35 23.30 23.28 23.17	22.68 22.93 22.04 22.22 22.32 21.32	
10	QPSK 16QAM	RB Size=1, RB Offset=25 RB Size=1, RB Offset=49 RB Size=25, RB Offset=0 RB Size=25, RB Offset=25 RB Size=50, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=25	0 0 1 1 1 1 1	0 0 1 1 1 1	23.45 23.64 22.77 23.19 23.01 22.66 22.72	23.75 23.64 23.35 23.30 23.28 23.17 22.94	22.68 22.93 22.04 22.22 22.32 21.32 21.35	
10		RB Size=1, RB Offset=25 RB Size=1, RB Offset=49 RB Size=25, RB Offset=0 RB Size=25, RB Offset=25 RB Size=50, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=25 RB Size=1, RB Offset=49	0 0 1 1 1 1 1 1	0 0 1 1 1 1 1	23.45 23.64 22.77 23.19 23.01 22.66 22.72 23.15	23.75 23.64 23.35 23.30 23.28 23.17 22.94 22.59	22.68 22.93 22.04 22.22 22.32 21.32 21.35 21.56	

SAR Test Report 40 of 70

				3.5	Av	e Tx Power (dF	Bm)	
BW (MHz)	Modulation	Resource Block Size& Resource Block Offset	Target MP R	Meas M PR	Low Channel 1857.5MHz	Mid Channel	High Channel 1902.5MHz	
		DD C' 1 DD OCC + 0	0	0		1880MHz		
		RB Size=1, RB Offset=0	0	0	23.16	23.88	22.68	
		RB Size=1, RB Offset=38	0	0	23.45	23.82	22.61	
	QPSK	RB Size=1, RB Offset=74	0	0	24.05	23.23	22.74	
		RB Size=36, RB Offset=0	1	1	22.72	23.42	22.15	
		RB Size=36, RB Offset=39	1	1	23.37	23.03	22.02	
15		RB Size=75, RB Offset=0	1	1	23.20	23.10	22.06	
15		RB Size=1, RB Offset=0	1	1	22.67	23.23	21.80	
		RB Size=1, RB Offset=38	1	1	22.96	22.86	21.71	
	16QAM	RB Size=1, RB Offset=74	1	1	23.22	22.60	22.09	
	TOQAM	RB Size=36, RB Offset=0	2	2	22.89	23.44	22.15	
		RB Size=36, RB Offset=39	2	2	23.38	23.03	22.01	
		RB Size=75, RB Offset=0	2	2	21.53	21.79	21.02	
			Target MP R	Meas	Ave Tx Power (dBm)			
BW (MHz)	Modulation	Resource Block Size& Resource Block Offset		M PR	Low Channel	Mid Channel	High Channel	
					1860MHz	1880MHz	1900MHz	
		RB Size=1, RB Offset=0	0	0	23.31	24.16	23.15	
		RB Size=1, RB Offset=50	0	0	23.81	23.72	22.65	
	ODCK	RB Size=1, RB Offset=99	0	0	24.13	23.38	22.85	
	QPSK	RB Size=50, RB Offset=0	1	1	22.91	23.44	22.24	
		RB Size=50, RB Offset=50	1	1	23.59	23.05	22.32	
20		RB Size=100, RB Offset=0	1	1	23.33	23.16	22.23	
20		RB Size=1, RB Offset=0	1	1	22.24	23.04	22.74	
		RB Size=1, RB Offset=50	1	1	22.84	22.70	22.26	
		KD Size-1, KD Offset-30	-					
	160 434	RB Size=1, RB Offset=99	1	1	23.08	22.10	22.49	
	16QAM	· · · · · · · · · · · · · · · · · · ·		1 2	23.08 22.92	22.10 23.50	22.49 22.28	
	16QAM	RB Size=1, RB Offset=99	1					

SAR Test Report 41 of 70

LTE Band 4:

			Т4	Meas	Ave	Tx Power (d)	Bm)
BW (MHz)	Modulation	Resource Block Size& Resource Block Offset	Target MP R	M P	Low Channel	Mid Channel	High Channel
			, N	R	1710.7MHz	1732.5MHz	1754.3MHz
		RB Size=1, RB Offset=0	0	0	22.80	23.89	24.17
		RB Size=1, RB Offset=3	0	0	22.80	23.78	24.14
	QPSK	RB Size=1, RB Offset=5	0	0	22.81	23.86	24.14
	Qr3K	RB Size=3, RB Offset=0	1	1	22.95	23.83	24.05
		RB Size=3, RB Offset=3	1	1	22.86	23.88	24.05
1.4		RB Size=6, RB Offset=0	1	1	22.39	23.28	23.62
1.4		RB Size=1, RB Offset=0	1	1	22.48	23.41	23.12
		RB Size=1, RB Offset=3	1	1	22.46	23.39	23.14
	16QAM	RB Size=1, RB Offset=5	1	1	22.53	23.48	23.01
	TOQAM	RB Size=3, RB Offset=0	2	2	22.97	23.69	24.09
		RB Size=3, RB Offset=3	2	2	22.82	23.88	24.15
		RB Size=6, RB Offset=0	2	2	21.51	21.94	22.33
			Torget		Ī .	·	<u> </u>
			Target	Meas		Tx Power (d)	
BW (MHz)	Modulation	Resource Block Size& Resource Block Offset	Target MP	M P	Low Channel	Tx Power (d) Mid Channel	Bm) High Channel
	Modulation			M	Low	Mid	High
	Modulation		MP	M P	Low Channel	Mid Channel	High Channel
	Modulation	Resource Block Offset	MP R	M P R	Low Channel 1711.5MHz	Mid Channel 1732.5MHz	High Channel 1753.5MHz
		RB Size=1, RB Offset=0	MP R	M P R	Low Channel 1711.5MHz 22.81	Mid Channel 1732.5MHz 23.77	High Channel 1753.5MHz 24.44
	Modulation QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=8	MP R 0 0	M P R 0 0	Low Channel 1711.5MHz 22.81 22.71	Mid Channel 1732.5MHz 23.77 23.72	High Channel 1753.5MHz 24.44 24.34
		RB Size=1, RB Offset=0 RB Size=1, RB Offset=8 RB Size=1, RB Offset=14	0 0 0	M P R 0 0 0	Low Channel 1711.5MHz 22.81 22.71 22.78	Mid Channel 1732.5MHz 23.77 23.72 23.86	High Channel 1753.5MHz 24.44 24.34 24.20
(MHz)		RB Size=1, RB Offset=0 RB Size=1, RB Offset=8 RB Size=1, RB Offset=14 RB Size=6, RB Offset=0	0 0 0 1	M P R 0 0 0 1	Low Channel 1711.5MHz 22.81 22.71 22.78 22.37	Mid Channel 1732.5MHz 23.77 23.72 23.86 23.34	High Channel 1753.5MHz 24.44 24.34 24.20 23.72
		RB Size=1, RB Offset=0 RB Size=1, RB Offset=8 RB Size=1, RB Offset=14 RB Size=6, RB Offset=0 RB Size=6, RB Offset=9	0 0 0 1 1	M P R 0 0 0 1 1 1	Low Channel 1711.5MHz 22.81 22.71 22.78 22.37 22.30	Mid Channel 1732.5MHz 23.77 23.72 23.86 23.34 23.42	High Channel 1753.5MHz 24.44 24.34 24.20 23.72 23.58
(MHz)		RB Size=1, RB Offset=0 RB Size=1, RB Offset=8 RB Size=1, RB Offset=14 RB Size=6, RB Offset=0 RB Size=6, RB Offset=9 RB Size=15, RB Offset=0	0 0 0 1 1	M P R 0 0 0 1 1 1 1 1	Low Channel 1711.5MHz 22.81 22.71 22.78 22.37 22.30 22.42	Mid Channel 1732.5MHz 23.77 23.72 23.86 23.34 23.42 23.25	High Channel 1753.5MHz 24.44 24.34 24.20 23.72 23.58 23.58
(MHz)	QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=8 RB Size=1, RB Offset=14 RB Size=6, RB Offset=0 RB Size=6, RB Offset=9 RB Size=15, RB Offset=0 RB Size=11, RB Offset=0 RB Size=11, RB Offset=0	0 0 0 1 1 1	M P R 0 0 0 1 1 1 1 1 1	Low Channel 1711.5MHz 22.81 22.71 22.78 22.37 22.30 22.42 22.36	Mid Channel 1732.5MHz 23.77 23.72 23.86 23.34 23.42 23.25 22.79	High Channel 1753.5MHz 24.44 24.34 24.20 23.72 23.58 23.58 23.16
(MHz)		RB Size=1, RB Offset=0 RB Size=1, RB Offset=8 RB Size=1, RB Offset=14 RB Size=6, RB Offset=0 RB Size=6, RB Offset=9 RB Size=15, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=8	0 0 0 1 1 1 1	M P R 0 0 0 1 1 1 1 1 1 1 1 1	Low Channel 1711.5MHz 22.81 22.71 22.78 22.37 22.30 22.42 22.36 22.35	Mid Channel 1732.5MHz 23.77 23.72 23.86 23.34 23.42 23.25 22.79 23.07	High Channel 1753.5MHz 24.44 24.34 24.20 23.72 23.58 23.58 23.16 23.22
(MHz)	QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=8 RB Size=1, RB Offset=14 RB Size=6, RB Offset=0 RB Size=6, RB Offset=9 RB Size=15, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=14 RB Size=1, RB Offset=14	0 0 0 1 1 1 1 1	M P R 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Low Channel 1711.5MHz 22.81 22.71 22.78 22.37 22.30 22.42 22.36 22.35 22.24	Mid Channel 1732.5MHz 23.77 23.72 23.86 23.34 23.42 23.25 22.79 23.07 23.15	High Channel 1753.5MHz 24.44 24.34 24.20 23.72 23.58 23.58 23.16 23.22 23.05

Report No.: SZ4210419-12287E-SA

SAR Test Report 42 of 70

			Т4	Meas	Ave	Tx Power (d)	Bm)
BW	Modulation	Resource Block Size&	Target MP	M	Low	Mid	High
(MHz)	1,1044141011	Resource Block Offset	R	P	Channel	Channel	Channel
				R	1712.5MHz	1732.5MHz	1752.5MHz
		RB Size=1, RB Offset=0	0	0	22.89	23.69	24.23
		RB Size=1, RB Offset=13	0	0	22.89	23.74	24.08
	QPSK	RB Size=1, RB Offset=24	0	0	22.79	23.96	24.05
	QISIC	RB Size=15, RB Offset=0	1	1	22.40	23.39	23.75
		RB Size=15, RB Offset=10	1	1	22.53	23.47	23.67
5		RB Size=25, RB Offset=0	1	1	22.42	23.30	23.75
		RB Size=1, RB Offset=0	1	1	21.22	22.91	22.93
		RB Size=1, RB Offset=13	1	1	21.00	23.02	22.80
	16QAM	RB Size=1, RB Offset=24	1	1	21.11	23.06	22.55
	TOQAM	RB Size=15, RB Offset=0	2	2	22.38	23.31	23.83
		RB Size=15, RB Offset=10	2	2	22.39	23.38	23.59
		RB Size=25, RB Offset=0	2	2	21.11	21.90	22.18
			Towast		A	TT TO (1)	D \
			Toward	Meas		Tx Power (d)	,
BW	Modulation	Resource Block Size&	Target MP	M	Low	Mid	High
BW (MHz)	Modulation	Resource Block Size& Resource Block Offset	Target MP R	M P	Low Channel	Mid Channel	High Channel
	Modulation	Resource Block Offset	MP R	M P R	Low Channel 1715MHz	Mid Channel 1732.5MHz	High Channel 1750MHz
	Modulation	Resource Block Offset RB Size=1, RB Offset=0	MP R	M P R	Low Channel 1715MHz 22.87	Mid Channel 1732.5MHz 23.61	High Channel 1750MHz 24.46
	Modulation	RB Size=1, RB Offset=0 RB Size=1, RB Offset=25	MP R 0 0	M P R 0 0	Low Channel 1715MHz 22.87 22.69	Mid Channel 1732.5MHz 23.61 23.86	High Channel 1750MHz 24.46 24.56
		RB Size=1, RB Offset=0 RB Size=1, RB Offset=25 RB Size=1, RB Offset=49	MP R	M P R 0 0 0	Low Channel 1715MHz 22.87 22.69 23.00	Mid Channel 1732.5MHz 23.61 23.86 24.24	High Channel 1750MHz 24.46 24.56 24.22
	Modulation QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=25 RB Size=1, RB Offset=49 RB Size=25, RB Offset=0	MP R 0 0	M P R 0 0	Low Channel 1715MHz 22.87 22.69 23.00 22.47	Mid Channel 1732.5MHz 23.61 23.86 24.24 23.02	High Channel 1750MHz 24.46 24.56 24.22 23.89
		RB Size=1, RB Offset=0 RB Size=1, RB Offset=25 RB Size=1, RB Offset=49 RB Size=25, RB Offset=0 RB Size=25, RB Offset=25	0 0 0	M P R 0 0 0	Low Channel 1715MHz 22.87 22.69 23.00	Mid Channel 1732.5MHz 23.61 23.86 24.24 23.02 23.25	High Channel 1750MHz 24.46 24.56 24.22
(MHz)		RB Size=1, RB Offset=0 RB Size=1, RB Offset=25 RB Size=1, RB Offset=49 RB Size=25, RB Offset=0	0 0 0 1	M P R 0 0 0 1	Low Channel 1715MHz 22.87 22.69 23.00 22.47	Mid Channel 1732.5MHz 23.61 23.86 24.24 23.02	High Channel 1750MHz 24.46 24.56 24.22 23.89
		RB Size=1, RB Offset=0 RB Size=1, RB Offset=25 RB Size=1, RB Offset=49 RB Size=25, RB Offset=0 RB Size=25, RB Offset=25 RB Size=50, RB Offset=0 RB Size=1, RB Offset=0	0 0 0 1 1	M P R 0 0 0 1 1 1	Low Channel 1715MHz 22.87 22.69 23.00 22.47 22.40 22.39 22.18	Mid Channel 1732.5MHz 23.61 23.86 24.24 23.02 23.25 23.39 22.69	High Channel 1750MHz 24.46 24.56 24.22 23.89 23.67 23.96 22.93
(MHz)		RB Size=1, RB Offset=0 RB Size=1, RB Offset=25 RB Size=1, RB Offset=49 RB Size=25, RB Offset=0 RB Size=25, RB Offset=0 RB Size=50, RB Offset=0	0 0 0 1 1	M P R 0 0 0 1 1 1 1 1	Low Channel 1715MHz 22.87 22.69 23.00 22.47 22.40 22.39	Mid Channel 1732.5MHz 23.61 23.86 24.24 23.02 23.25 23.39	High Channel 1750MHz 24.46 24.56 24.22 23.89 23.67 23.96
(MHz)	QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=25 RB Size=1, RB Offset=49 RB Size=25, RB Offset=0 RB Size=25, RB Offset=25 RB Size=50, RB Offset=0 RB Size=1, RB Offset=0	0 0 0 1 1 1	M P R 0 0 0 1 1 1 1 1 1	Low Channel 1715MHz 22.87 22.69 23.00 22.47 22.40 22.39 22.18	Mid Channel 1732.5MHz 23.61 23.86 24.24 23.02 23.25 23.39 22.69	High Channel 1750MHz 24.46 24.56 24.22 23.89 23.67 23.96 22.93
(MHz)		RB Size=1, RB Offset=0 RB Size=1, RB Offset=25 RB Size=1, RB Offset=49 RB Size=25, RB Offset=0 RB Size=25, RB Offset=0 RB Size=50, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=25	0 0 0 1 1 1 1	M P R 0 0 0 1 1 1 1 1 1 1 1 1	Low Channel 1715MHz 22.87 22.69 23.00 22.47 22.40 22.39 22.18 22.39	Mid Channel 1732.5MHz 23.61 23.86 24.24 23.02 23.25 23.39 22.69 23.08	High Channel 1750MHz 24.46 24.56 24.22 23.89 23.67 23.96 22.93 23.01
(MHz)	QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=25 RB Size=1, RB Offset=49 RB Size=25, RB Offset=0 RB Size=25, RB Offset=25 RB Size=50, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=49	0 0 0 1 1 1 1 1	M P R 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Low Channel 1715MHz 22.87 22.69 23.00 22.47 22.40 22.39 22.18 22.39 22.32	Mid Channel 1732.5MHz 23.61 23.86 24.24 23.02 23.25 23.39 22.69 23.08 23.33	High Channel 1750MHz 24.46 24.56 24.22 23.89 23.67 23.96 22.93 23.01 22.72

SAR Test Report 43 of 70

			Т4	Meas	Ave	Tx Power (d)	Bm)
BW	Modulation	Resource Block Size&	Target MP	M	Low	Mid	High
(MHz)	1,10441411111	Resource Block Offset	R	P R	Channel	Channel	Channel
				K	1717.5MHz	1732.5MHz	1747.5MHz
		RB Size=1, RB Offset=0	0	0	22.80	23.38	24.42
		RB Size=1, RB Offset=38	0	0	22.91	23.81	24.42
	QPSK	RB Size=1, RB Offset=74	0	0	23.34	24.21	24.34
	QISK	RB Size=36, RB Offset=0	1	1	22.47	23.14	23.76
		RB Size=36, RB Offset=39	1	1	22.71	23.50	23.94
15		RB Size=75, RB Offset=0	1	1	22.62	23.28	23.92
13		RB Size=1, RB Offset=0	1	1	22.09	23.01	23.62
		RB Size=1, RB Offset=38	1	1	22.02	23.54	23.84
	16QAM	RB Size=1, RB Offset=74	1	1	22.43	23.97	23.54
	TOQAM	RB Size=36, RB Offset=0	2	2	22.38	23.11	23.81
		RB Size=36, RB Offset=39	2	2	22.66	23.73	23.81
		RB Size=75, RB Offset=0	2	2	21.28	21.89	22.44
			Towast		A	TT TO (1)	D \
			Torget	Meas		Tx Power (d)	,
BW	Modulation	Resource Block Size&	Target MP	M	Low	Mid	High
BW (MHz)	Modulation	Resource Block Size& Resource Block Offset		M P	Low Channel	Mid Channel	High Channel
	Modulation	Resource Block Offset	MP R	M P R	Low Channel 1720MHz	Mid Channel 1732.5MHz	High Channel 1745MHz
	Modulation	Resource Block Offset RB Size=1, RB Offset=0	MP R	M P R	Low Channel 1720MHz 22.85	Mid Channel 1732.5MHz 23.27	High Channel 1745MHz 23.95
	Modulation	RB Size=1, RB Offset=0 RB Size=1, RB Offset=50	MP R 0 0	M P R 0 0	Low Channel 1720MHz 22.85 23.16	Mid Channel 1732.5MHz 23.27 23.77	High Channel 1745MHz 23.95 24.52
		RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99	MP R	M P R	Low Channel 1720MHz 22.85 23.16 23.54	Mid Channel 1732.5MHz 23.27 23.77 24.23	High Channel 1745MHz 23.95 24.52 24.22
	Modulation QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99 RB Size=50, RB Offset=0	MP R 0 0	M P R 0 0	Low Channel 1720MHz 22.85 23.16 23.54 22.27	Mid Channel 1732.5MHz 23.27 23.77 24.23 23.05	High Channel 1745MHz 23.95 24.52 24.22 23.66
		RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99	0 0 0	M P R 0 0 0	Low Channel 1720MHz 22.85 23.16 23.54	Mid Channel 1732.5MHz 23.27 23.77 24.23	High Channel 1745MHz 23.95 24.52 24.22
(MHz)		RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99 RB Size=50, RB Offset=0	0 0 0 1	M P R 0 0 0 1	Low Channel 1720MHz 22.85 23.16 23.54 22.27	Mid Channel 1732.5MHz 23.27 23.77 24.23 23.05	High Channel 1745MHz 23.95 24.52 24.22 23.66
		RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99 RB Size=50, RB Offset=0 RB Size=50, RB Offset=50 RB Size=100, RB Offset=0 RB Size=1, RB Offset=0	0 0 0 1 1	M P R 0 0 0 1 1 1	Low Channel 1720MHz 22.85 23.16 23.54 22.27 22.84 22.51 22.13	Mid Channel 1732.5MHz 23.27 23.77 24.23 23.05 23.52 23.22 22.59	High Channel 1745MHz 23.95 24.52 24.22 23.66 23.90 23.84 23.59
(MHz)		RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99 RB Size=50, RB Offset=0 RB Size=50, RB Offset=0 RB Size=50, RB Offset=50 RB Size=100, RB Offset=0	0 0 0 1 1	M P R 0 0 0 1 1 1 1 1	Low Channel 1720MHz 22.85 23.16 23.54 22.27 22.84 22.51	Mid Channel 1732.5MHz 23.27 23.77 24.23 23.05 23.52 23.22	High Channel 1745MHz 23.95 24.52 24.22 23.66 23.90 23.84
(MHz)	QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99 RB Size=50, RB Offset=0 RB Size=50, RB Offset=50 RB Size=100, RB Offset=0 RB Size=1, RB Offset=0	0 0 0 1 1 1	M P R 0 0 0 1 1 1 1 1 1 1	Low Channel 1720MHz 22.85 23.16 23.54 22.27 22.84 22.51 22.13	Mid Channel 1732.5MHz 23.27 23.77 24.23 23.05 23.52 23.22 22.59	High Channel 1745MHz 23.95 24.52 24.22 23.66 23.90 23.84 23.59
(MHz)		RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99 RB Size=50, RB Offset=0 RB Size=50, RB Offset=50 RB Size=100, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=50	0 0 0 1 1 1 1	M P R 0 0 0 1 1 1 1 1 1 1 1 1	Low Channel 1720MHz 22.85 23.16 23.54 22.27 22.84 22.51 22.13 22.20	Mid Channel 1732.5MHz 23.27 23.77 24.23 23.05 23.52 23.52 23.22 22.59 22.80	High Channel 1745MHz 23.95 24.52 24.22 23.66 23.90 23.84 23.59 24.09
(MHz)	QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99 RB Size=50, RB Offset=0 RB Size=50, RB Offset=50 RB Size=100, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=99	0 0 0 1 1 1 1 1	M P R 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Low Channel 1720MHz 22.85 23.16 23.54 22.27 22.84 22.51 22.13 22.20 22.82	Mid Channel 1732.5MHz 23.27 23.77 24.23 23.05 23.52 23.22 22.59 22.80 23.45	High Channel 1745MHz 23.95 24.52 24.22 23.66 23.90 23.84 23.59 24.09 23.89

SAR Test Report 44 of 70

			T	Meas	Ave	Tx Power (d)	Bm)	
BW (MHz)	Modulation	Resource Block Size& Resource Block Offset	Target MP R	M P R	Low Channel	Mid Channel	High Channel	
					824.7MHz	836.5MHz	848.3MHz	
		RB Size=1, RB Offset=0	0	0	24.49	24.35	24.58	
		RB Size=1, RB Offset=2	0	0	24.39	24.50	24.53	
		RB Size=1, RB Offset=5	0	0	24.43	24.59	24.56	
	QPSK	RB Size=3, RB Offset=0	1	1	24.36	24.67	24.57	
		RB Size=3, RB Offset=1	1	1	24.44	24.58	24.67	
		RB Size=3, RB Offset=2	1	1	23.83	23.99	24.02	
1.4		RB Size=6, RB Offset=0	1	1	23.95	24.51	23.24	
1.4		RB Size=1, RB Offset=0	1	1	23.77	24.20	23.25	
		RB Size=1, RB Offset=2	1	1	24.00	24.12	23.28	
		RB Size=1, RB Offset=5	1	1	24.30	24.55	24.54	
	16QAM	RB Size=3, RB Offset=0	2	2	24.26	24.58	24.69	
		RB Size=3, RB Offset=1	2	2	22.88	22.60	22.82	
		RB Size=3, RB Offset=2	2	2	24.36	24.41	24.53	
		RB Size=6, RB Offset=0	2	2	24.41	24.53	24.44	
			Target	Meas	Ave Tx Power (dBm)			
$\mathbf{R}\mathbf{W}$	BW M. J. J. J.	Resource Block Size&	MP	7. //	T	N # 2 .1	High	
	Modulation		MP	M	Low	Mid		
(MHz)	Modulation	Resource Block Offset	MP R	P R	Channel	Channel	Channel	
	Modulation	Resource Block Offset		P			_	
	Modulation	Resource Block Offset RB Size=1, RB Offset=0	R	P R	Channel 825.5MHz	Channel 836.5MHz	Channel 847.5MHz	
	Modulation	Resource Block Offset	R 0	P R 0	Channel 825.5MHz 24.27	Channel 836.5MHz 24.31	Channel 847.5MHz 24.58	
	Modulation QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=7	R 0 0	P R 0 0	Channel 825.5MHz 24.27 24.27	Channel 836.5MHz 24.31 24.58	Channel 847.5MHz 24.58 24.65	
		RB Size=1, RB Offset=0 RB Size=1, RB Offset=7 RB Size=1, RB Offset=14	0 0 0	P R 0 0 0	Channel 825.5MHz 24.27 24.27 24.45	Channel 836.5MHz 24.31 24.58 24.45	Channel 847.5MHz 24.58 24.65 24.61	
		RB Size=1, RB Offset=0 RB Size=1, RB Offset=7 RB Size=1, RB Offset=14 RB Size=8, RB Offset=0	0 0 0 1	P R 0 0 0 1	Channel 825.5MHz 24.27 24.27 24.45 23.90	Channel 836.5MHz 24.31 24.58 24.45 23.96	Channel 847.5MHz 24.58 24.65 24.61 24.15	
(MHz)		RB Size=1, RB Offset=0 RB Size=1, RB Offset=7 RB Size=1, RB Offset=14 RB Size=8, RB Offset=0 RB Size=8, RB Offset=4	0 0 0 1 1	P R 0 0 0 1 1 1	Channel 825.5MHz 24.27 24.27 24.45 23.90 24.05	Channel 836.5MHz 24.31 24.58 24.45 23.96 23.98	Channel 847.5MHz 24.58 24.65 24.61 24.15 24.19	
		RB Size=1, RB Offset=0 RB Size=1, RB Offset=7 RB Size=1, RB Offset=14 RB Size=8, RB Offset=0 RB Size=8, RB Offset=4 RB Size=8, RB Offset=7	0 0 0 1 1	P R 0 0 0 1 1 1 1	Channel 825.5MHz 24.27 24.27 24.45 23.90 24.05 23.87	Channel 836.5MHz 24.31 24.58 24.45 23.96 23.98 24.04	Channel 847.5MHz 24.58 24.65 24.61 24.15 24.19 24.09	
(MHz)		RB Size=1, RB Offset=0 RB Size=1, RB Offset=7 RB Size=1, RB Offset=14 RB Size=8, RB Offset=0 RB Size=8, RB Offset=4 RB Size=8, RB Offset=7 RB Size=15, RB Offset=0	0 0 0 1 1 1 1	P R 0 0 0 1 1 1 1 1 1	Channel 825.5MHz 24.27 24.27 24.45 23.90 24.05 23.87 23.64	Channel 836.5MHz 24.31 24.58 24.45 23.96 23.98 24.04 24.62	Channel 847.5MHz 24.58 24.65 24.61 24.15 24.19 24.09 23.26	
(MHz)		RB Size=1, RB Offset=0 RB Size=1, RB Offset=7 RB Size=1, RB Offset=14 RB Size=8, RB Offset=0 RB Size=8, RB Offset=4 RB Size=8, RB Offset=7 RB Size=15, RB Offset=0 RB Size=11, RB Offset=0 RB Size=11, RB Offset=0	0 0 0 1 1 1 1	P R 0 0 0 1 1 1 1 1 1 1 1	Channel 825.5MHz 24.27 24.27 24.45 23.90 24.05 23.87 23.64 23.51	Channel 836.5MHz 24.31 24.58 24.45 23.96 23.98 24.04 24.62 24.20	Channel 847.5MHz 24.58 24.65 24.61 24.15 24.19 24.09 23.26 23.16	
(MHz)		RB Size=1, RB Offset=0 RB Size=1, RB Offset=7 RB Size=1, RB Offset=14 RB Size=8, RB Offset=0 RB Size=8, RB Offset=4 RB Size=8, RB Offset=7 RB Size=15, RB Offset=0 RB Size=11, RB Offset=0 RB Size=11, RB Offset=0 RB Size=11, RB Offset=7	0 0 0 1 1 1 1 1 1	P R 0 0 0 1 1 1 1 1 1 1 1 1	Channel 825.5MHz 24.27 24.27 24.45 23.90 24.05 23.87 23.64 23.51	Channel 836.5MHz 24.31 24.58 24.45 23.96 23.98 24.04 24.62 24.20 24.29	Channel 847.5MHz 24.58 24.65 24.61 24.15 24.19 24.09 23.26 23.15	
(MHz)	QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=7 RB Size=1, RB Offset=14 RB Size=8, RB Offset=14 RB Size=8, RB Offset=0 RB Size=8, RB Offset=4 RB Size=8, RB Offset=7 RB Size=15, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=7 RB Size=1, RB Offset=14	0 0 0 1 1 1 1 1 1	P R 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Channel 825.5MHz 24.27 24.27 24.45 23.90 24.05 23.87 23.64 23.51 22.98	Channel 836.5MHz 24.31 24.58 24.45 23.96 23.98 24.04 24.62 24.20 24.29 23.00	Channel 847.5MHz 24.58 24.65 24.61 24.15 24.19 24.09 23.26 23.16 23.33	
(MHz)	QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=7 RB Size=1, RB Offset=14 RB Size=8, RB Offset=0 RB Size=8, RB Offset=4 RB Size=8, RB Offset=7 RB Size=15, RB Offset=7 RB Size=15, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=7 RB Size=1, RB Offset=7 RB Size=1, RB Offset=14 RB Size=8, RB Offset=0	R 0 0 0 1 1 1 1 1 1 2	P R 0 0 0 1 1 1 1 1 1 1 1 2	Channel 825.5MHz 24.27 24.27 24.45 23.90 24.05 23.87 23.64 23.51 22.98 23.00	Channel 836.5MHz 24.31 24.58 24.45 23.96 23.98 24.04 24.62 24.20 24.29 23.00 22.48	Channel 847.5MHz 24.58 24.65 24.61 24.15 24.19 24.09 23.26 23.15 23.33 22.79	

Report No.: SZ4210419-12287E-SA

SAR Test Report 45 of 70

				3.6	Av	e Tx Power (dE	Sm)	
BW (MHz)	Modulation	Resource Block Size& Resource Block Offset	Target MP R	Meas M PR	Low Channel	Mid Channel	High Channel	
			K	I K	826.5MHz	836.5MHz	846.5MHz	
		RB Size=1, RB Offset=0	0	0	24.19	24.34	24.44	
		RB Size=1, RB Offset=12	0	0	24.35	24.60	24.45	
		RB Size=1, RB Offset=24	0	0	24.28	24.51	24.54	
	QPSK	RB Size=12, RB Offset=0	1	1	23.79	23.96	24.14	
		RB Size=12, RB Offset=6	1	1	24.03	24.10	24.01	
		RB Size=12, RB Offset=11	1	1	23.96	24.04	24.06	
5		RB Size=25, RB Offset=0	1	1	22.47	24.00	23.06	
5		RB Size=1, RB Offset=0	1	1	22.58	23.62	23.15	
		RB Size=1, RB Offset=12	1	1	22.74	23.66	23.13	
		RB Size=1, RB Offset=24	1	1	23.82	23.94	24.16	
	16QAM	RB Size=12, RB Offset=0	2	2	23.91	24.03	24.06	
		RB Size=12, RB Offset=6	2	2	22.92	22.48	22.93	
		RB Size=12, RB Offset=11	2	2	24.23	24.37	24.45	
		RB Size=25, RB Offset=0	2	2	24.31	24.57	24.35	
			Towast	Meas	Ave Tx Power (dBm)			
BW (MHz)	Modulation	Resource Block Size& Resource Block Offset	Target MP R	M PR	Low Channel	Mid Channel	High Channel	
			K	I IV	829MHz	836.5MHz	844MHz	
		RB Size=1, RB Offset=0	0	0	24.34	24.59	24.60	
		RB Size=1, RB Offset=24	0	0	24.41	24.72	24.47	
		RB Size=1, RB Offset=49	0	0	24.50	24.93	24.63	
	QPSK	RB Size=25, RB Offset=0	1	1	24.10	23.93	24.09	
		RB Size=25, RB Offset=12	1	1	23.95	24.04	24.07	
		RB Size=25, RB Offset=24	1	1	24.00	24.06	24.04	
10		RB Size=50, RB Offset=0	1	1	23.81	23.63	22.90	
10		RB Size=1, RB Offset=0	1	1	23.70	23.61	23.05	
		RB Size=1, RB Offset=24	1	1	23.83	23.95	22.97	
		RB Size=1, RB Offset=49	1	1	23.98	23.88	24.11	
	16QAM	RB Size=25, RB Offset=0	2	2	23.92	24.05	24.08	
		RB Size=25, RB Offset=12	2	2	22.41	22.68	22.57	
		RB Size=25, RB Offset=24	2	2	24.37	24.58	24.55	

SAR Test Report 46 of 70

LTE Band 7:

			Т4	Meas	Ave	Tx Power (d)	Bm)
BW	Modulation	Resource Block Size& Resource Block Offset	Target MP	M P	Low Channel	Mid Channel	High Channel
			R	R	2502.5MHz	2535MHz	2567.5MHz
		RB Size=1, RB Offset=0	0	0	23.80	23.53	23.89
		RB Size=1, RB Offset=25	0	0	23.69	23.58	23.86
	QPSK	RB Size=1, RB Offset=49	0	0	23.72	23.66	23.82
	QPSK	RB Size=25, RB Offset=0	1	1	23.31	23.19	23.37
		RB Size=25, RB Offset=25	1	1	23.29	23.03	23.45
5M		RB Size=50, RB Offset=0	1	1	23.25	23.03	23.42
SIVI		RB Size=1, RB Offset=0	1	1	22.12	22.46	22.68
		RB Size=1, RB Offset=25	1	1	22.01	22.41	22.55
	160AM	RB Size=1, RB Offset=49	1	1	22.08	22.48	22.56
	16QAM	RB Size=25, RB Offset=0	2	2	23.21	23.15	23.40
		RB Size=25, RB Offset=25	2	2	23.22	23.02	23.38
		RB Size=50, RB Offset=0	2	2	22.07	21.64	21.90
			Target	Meas	Ave	Tx Power (d)	Bm)
BW	Modulation	Resource Block Size&	MP	M	Low	Mid	High
		Resource Block Offset	R	P R	Channel 2505MHz	Channel 2535MHz	Channel 2565MHz
		RB Size=1, RB Offset=0	0	0	23.55	23.44	23.96
		RB Size=1, RB Offset=38	0	0	23.54	23.48	24.09
		RD Size=1, RD Offset=30					
	ODCK	RR Size=1 RR Offset=74		_			
	QPSK	RB Size=1, RB Offset=74 RB Size=36, RB Offset=0	0	0	23.46	23.54	23.88
	QPSK	RB Size=36, RB Offset=0	0	0	23.46 23.29	23.54 22.98	23.88 23.41
	QPSK	RB Size=36, RB Offset=0 RB Size=36, RB Offset=39	0	0	23.46 23.29 23.19	23.54 22.98 23.04	23.88 23.41 23.50
10 M	QPSK	RB Size=36, RB Offset=0 RB Size=36, RB Offset=39 RB Size=75, RB Offset=0	0 1 1 1	0 1 1 1 1	23.46 23.29 23.19 23.31	23.54 22.98 23.04 23.01	23.88 23.41 23.50 23.55
10M	QPSK	RB Size=36, RB Offset=0 RB Size=36, RB Offset=39 RB Size=75, RB Offset=0 RB Size=1, RB Offset=0	0 1 1	0 1 1	23.46 23.29 23.19 23.31 22.87	23.54 22.98 23.04 23.01 22.74	23.88 23.41 23.50 23.55 22.54
10M		RB Size=36, RB Offset=0 RB Size=36, RB Offset=39 RB Size=75, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=38	0 1 1 1 1	0 1 1 1 1	23.46 23.29 23.19 23.31 22.87 22.94	23.54 22.98 23.04 23.01 22.74 22.79	23.88 23.41 23.50 23.55 22.54 22.84
10M	QPSK 16QAM	RB Size=36, RB Offset=0 RB Size=36, RB Offset=39 RB Size=75, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=38 RB Size=1, RB Offset=74	0 1 1 1 1 1 1	0 1 1 1 1 1	23.46 23.29 23.19 23.31 22.87 22.94 22.84	23.54 22.98 23.04 23.01 22.74 22.79 22.89	23.88 23.41 23.50 23.55 22.54 22.84 22.75
10M		RB Size=36, RB Offset=0 RB Size=36, RB Offset=39 RB Size=75, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=38	0 1 1 1 1 1	0 1 1 1 1 1	23.46 23.29 23.19 23.31 22.87 22.94	23.54 22.98 23.04 23.01 22.74 22.79	23.88 23.41 23.50 23.55 22.54 22.84

Report No.: SZ4210419-12287E-SA

SAR Test Report 47 of 70

			T4	Meas	Ave	Tx Power (d)	Bm)
BW	Modulation	Resource Block Size& Resource Block Offset	Target MP R	M P	Low Channel	Mid Channel	High Channel
				R	2507.5MHz	2535MHz	2562.5MHz
		RB Size=1, RB Offset=0	0	0	23.58	23.55	23.87
		RB Size=1, RB Offset=50	0	0	23.55	23.65	24.05
	QPSK	RB Size=1, RB Offset=99	0	0	23.56	23.76	24.06
	QFSK	RB Size=50, RB Offset=0	1	1	23.31	22.95	23.36
		RB Size=50, RB Offset=50	1	1	23.06	23.23	23.33
15M	15M	RB Size=100, RB Offset=0	1	1	23.18	22.98	23.32
13101		RB Size=1, RB Offset=0	1	1	22.97	23.31	23.39
		RB Size=1, RB Offset=50	1	1	22.84	23.32	23.39
	16QAM	RB Size=1, RB Offset=99	1	1	22.80	23.69	23.32
	TOQAM	RB Size=50, RB Offset=0	2	2	23.14	23.06	23.41
		RB Size=50, RB Offset=50	2	2	23.21	23.18	23.47
		RB Size=100, RB Offset=0	2	2	21.82	21.69	22.11
			Target	Meas		Tx Power (d)	
BW	Modulation	Resource Block Size& Resource Block Offset	MP	M P	Low	Mid	High
					Channel	Channel	Channel
		Resource Diock Offset	R	R	2510MHz	2535MHz	2560MHz
		RB Size=1, RB Offset=0	R 0		2510MHz 23.69	2535MHz 23.56	2560MHz 24.08
				R			
		RB Size=1, RB Offset=0	0	R 0	23.69	23.56	24.08
	QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=50	0	R 0 0	23.69 23.65	23.56 23.65	24.08 23.89
		RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99	0 0	0 0 0	23.69 23.65 23.52	23.56 23.65 23.96	24.08 23.89 23.88
2014		RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99 RB Size=50, RB Offset=0	0 0 0 1	0 0 0 1	23.69 23.65 23.52 23.11	23.56 23.65 23.96 23.01	24.08 23.89 23.88 23.39
20M		RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99 RB Size=50, RB Offset=0 RB Size=50, RB Offset=50	0 0 0 1 1	0 0 0 1	23.69 23.65 23.52 23.11 22.98	23.56 23.65 23.96 23.01 23.12	24.08 23.89 23.88 23.39 23.47
20M		RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99 RB Size=50, RB Offset=0 RB Size=50, RB Offset=50 RB Size=100, RB Offset=0	0 0 0 1 1	0 0 0 1 1	23.69 23.65 23.52 23.11 22.98 23.12	23.56 23.65 23.96 23.01 23.12 23.12	24.08 23.89 23.88 23.39 23.47 23.38
20M	QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99 RB Size=50, RB Offset=0 RB Size=50, RB Offset=50 RB Size=100, RB Offset=0 RB Size=1, RB Offset=0	0 0 0 1 1 1 1	0 0 0 1 1 1	23.69 23.65 23.52 23.11 22.98 23.12 22.65	23.56 23.65 23.96 23.01 23.12 23.12 23.05	24.08 23.89 23.88 23.39 23.47 23.38 23.50
20M		RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99 RB Size=50, RB Offset=0 RB Size=50, RB Offset=50 RB Size=100, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=50	0 0 0 1 1 1 1	0 0 0 1 1 1 1	23.69 23.65 23.52 23.11 22.98 23.12 22.65 22.55	23.56 23.65 23.96 23.01 23.12 23.12 23.05 23.03	24.08 23.89 23.88 23.39 23.47 23.38 23.50 23.57
20M	QPSK	RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99 RB Size=50, RB Offset=0 RB Size=50, RB Offset=50 RB Size=100, RB Offset=0 RB Size=1, RB Offset=0 RB Size=1, RB Offset=50 RB Size=1, RB Offset=99	0 0 0 1 1 1 1 1 1	R 0 0 1 1 1 1 1 1	23.69 23.65 23.52 23.11 22.98 23.12 22.65 22.55 22.52	23.56 23.65 23.96 23.01 23.12 23.12 23.05 23.03 23.35	24.08 23.89 23.88 23.39 23.47 23.38 23.50 23.57 23.58

Note:

- 1. SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02.
- 2. The CMW500 Wideband Radio Communication tester is used for LTE output power measurements and SAR testing. Closed loop power control is used to keep the radio transmitters the max output power during the test.

SAR Test Report 48 of 70

Bluetooth:

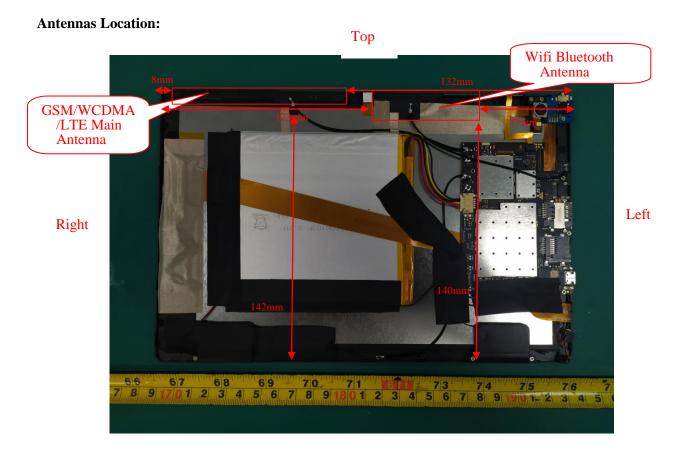
Mode	Channel frequency	RF Output Power
Wiouc	(MHz)	(dBm)
	2402	5.58
DDD(CECK)	2428	7.23
BDR(GFSK)	2441	5.38
	2480	5.06
	2402	7.15
EDD(-/4 DODGE)	2425	7.67
$EDR(\pi/4-DQPSK)$	2441	6.82
	2480	6.53
	2402	7.28
EDD(0 DDGIV)	2430	7.43
EDR(8-DPSK)	2441	7.21
	2480	6.76
	2402	3.23
Bluetooth LE_1M	2440	2.95
	2480	2.69
	2402	2.99
Bluetooth LE_2M	2440	2.78
	2480	2.48

WLAN 2.4G:

Mode	Channel	Data Rate	RF Output
Wiode	frequency (MHz)	Data Rate	Power(dBm)
	2412		11.09
802.11b	2437	1Mbps	10.36
	2462		9.07
	2412		11.34
802.11g	2437	6Mbps	8.49
	2462		9.00
	2412		9.35
802.11n HT20	2437	MCS0	8.18
	2462		11.11
	2422		10.09
802.11n HT40	2437	MCS0	9.22
	2452		10.11

SAR Test Report 49 of 70

Standalone SAR test exclusion considerations



Bottom

Antenna Distance To Edge

Antenna Distance To Edge(mm)							
Antenna Back Left Right Top Bottom							
WLAN/Bluetooth Antenna	< 5	77	123	< 5	140		
WWAN(GSM/WCDMA/LTE)	< 5	132	8	< 5	142		

SAR Test Report 50 of 70

Standalone SAR test exclusion considerations

Mode	Frequency (MHz)	P _{avg} (dBm)	P _{avg} (mW	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusi on
WLAN 2.4G	2462	11.5	14.13	0	4.4	3	No
Bluetooth	2480	8.0	6.31	0	2.0	3	Yes

Report No.: SZ4210419-12287E-SA

NOTE:

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)] ·

 $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- 1. f(GHz) is the RF channel transmit frequency in GHz.
- 2. Power and distance are rounded to the nearest mW and mm before calculation.
- 3. The result is rounded to one decimal place for comparison.
- 4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.
- 5. EUT photos are secret

Standalone SAR estimation:

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Estimated 1-g (W/kg)
Bluetooth Body	2480	8.0	6.31	0	0.26

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

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

W/kg for test separation distances ≤50 mm;

where x = 7.5 for 1-g SAR.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

SAR test exclusion for the EUT edge considerations Result

Exclusion Result								
Mode Back Left Right Top								
Bluetooth	Exclusion*	Exclusion*	Exclusion*	Exclusion*	Exclusion*			
WLAN 2.4G	Required	Exclusion	Exclusion	Required	Exclusion			
WWAN	Required	Exclusion	Required	Required	Exclusion			

Note:

Required: The distance to Edge is less than 25mm, testing is required. **Exclusion*:** SAR test exclusion evaluation has been done above. **Exclusion:** The distance to Edge is more than 25 mm, testing is not required.

SAR Test Report 51 of 70

SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

Report No.: SZ4210419-12287E-SA

SAR Test Data

Environmental Conditions

Temperature:	22.1-23.8 ℃	22.1-23.9 ℃
Relative Humidity:	42-56%	41-53 %
ATM Pressure:	101.3 kPa	101.3 kPa
Test Date:	2021/04/20	2021/04/21

Testing was performed by Sunny Liu, Ricardo Lan.

SAR Test Report 52 of 70

GSM 850:

EUT Position	Frequency (MHz)	Test Mode		Max Power (dBm)		1g SAR (W/kg)		Plot
1 osition	(IVIIIZ)	Wiode	Meas.	Rated	Factor	Meas.	Scaled	
Body Worn Back (0mm)	824.2	GSM	/	/	/	/	/	/
	836.6	GSM	31.87	32.5	1.156	0.162	0.19	1#
	848.8	GSM	/	/	/	/	/	/
	824.2	GPRS	/	/	/	/	/	/
Body Back (0mm)	836.6	GPRS	28.23	28.5	1.064	0.259	0.28	2#
(OIIIII)	848.8	GPRS	/	/	/	/	/	/
	824.2	GPRS	/	/	/	/	/	/
Body Right (0mm)	836.6	GPRS	28.23	28.5	1.064	0.050	0.05	3#
(OIIIII)	848.8	GPRS	/	/	/	/	/	/
	824.2	GPRS	/	/	/	/	/	/
Body Top (0mm)	836.6	GPRS	28.23	28.5	1.064	0.019	0.02	4#
(OIIIII)	848.8	GPRS	/	/	/	/	/	/

Note:

- 1. When the 1-g SAR is ≤ 0.8 W/Kg, testing for other channels are optional.
- 2. The EUT transmit and receive through the same GSM antenna while testing SAR.
- 3. When SAR or MPE 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.
- 4. When the maximum output power variation across the required test channels is > 0.5 dB, instead of the middle channel, the highest output power channel must be used.
- 5. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 2DL+3UL is the worst case.

SAR Test Report 53 of 70

PCS 1900:

EUT Position	Frequency Test (MHz) Mode		Max Power (dBm)		Scaled Factor	1g S (W	Plot	
1 OSITION	(WITIE)	Wiode	Meas.	Rated	1 actor	Meas.	Scaled	
Body Worn	1850.2	GSM	/	/	/	/	/	/
Back	1880	GSM	29.74	30.0	1.062	0.256	0.27	5#
(0mm)	1909.8	GSM	/	/	/	/	/	/
	1850.2	GPRS	/	/	/	/	/	/
Body Back (0mm)	1880	GPRS	28.64	29.0	1.086	0.466	0.51	6#
(Olimi)	1909.8	GPRS	/	/	/	/	/	/
	1850.2	GPRS	/	/	/	/	/	/
Body Right (0mm)	1880	GPRS	28.64	29.0	1.086	0.021	0.02	7#
(Olimi)	1909.8	GPRS	/	/	/	/	/	/
D 1 F	1850.2	GPRS	/	/	/	/	/	/
Body Top (0mm)	1880	GPRS	28.64	29.0	1.086	0.093	0.10	8#
(Olimi)	1909.8	GPRS	/	/	/	/	/	/

Note:

- 1. When the 1-g SAR is ≤ 0.8 W/Kg, testing for other channels are optional.
- 2. The EUT transmit and receive through the same GSM antenna while testing SAR.
- 3. When SAR or MPE 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.
- 4. When the maximum output power variation across the required test channels is > 0.5 dB, instead of the middle channel, the highest output power channel must be used.
- 5. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 3DL+2UL is the worst case.

SAR Test Report 54 of 70

WCDMA Band 2:

EUT Position	Frequency Test (MHz) Mode		(uDiii)		Scaled Factor	1g S (V	Plot	
1 OSITION	(WITIZ)	Wiode	Meas.	Rated	1 actor	Meas.	Scaled	
·	1852.4	RMC	/	/	/	/	/	/
Body Back (0mm)	1880	RMC	22.58	23.9	1.355	0.399	0.54	9#
(UIIIII)	1907.6	RMC	/	/	/	/	/	/
D 1 D: 1	1852.4	RMC	/	/	/	/	/	/
Body Right (0mm)	1880	RMC	22.58	23.9	1.355	0.022	0.03	10#
(OIIIII)	1907.6	RMC	/	/	/	/	/	/
	1852.4	RMC	/	/	/	/	/	/
Body Top (0mm)	1880	RMC	22.58	23.9	1.355	0.065	0.09	11#
(Ollilli)	1907.6	RMC	/	/	/	/	/	/

WCDMA Band 5:

EUT Position	Frequency Test (MHz) Mode		Max Power (dBm)		Scaled Factor	1g SAR (W/kg)		Plot
1 OSITION	(WITIZ)	Wiode	Meas.	Rated	1 actor	Meas.	Scaled	
	826.4	RMC	/	/	/	/	/	/
Body Back (0mm)	836.6	RMC	23.76	24.5	1.186	0.097	0.12	12#
(OIIIII)	846.6	RMC	/	/	/	/	/	/
D 1 D: 1.	826.4	RMC	/	/	/	/	/	/
Body Right (0mm)	836.6	RMC	23.76	24.5	1.186	0.033	0.04	13#
(OIIIII)	846.6	RMC	/	/	/	/	/	/
	826.4	RMC	/	/	/	/	/	/
Body Top (0mm)	836.6	RMC	23.76	24.5	1.186	0.012	0.01	14#
(Onni)	846.6	RMC	/	/	/	/	/	/

Note:

- 1. When the 1-g SAR is ≤ 0.8 W/Kg, testing for other channels are optional.
- 2. The EUT transmit and receive through the same antenna while testing SAR.
- 3. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement Channel) Configured in Test Loop Model.
- 4. KDB 941225 D01-Body SAR is not required for HSDPA/HSPA+ when the maximum average output of each RF channel is less than ¼ dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.
- 5. When SAR or MPE 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.

SAR Test Report 55 of 70

LTE Band 2:

EUT Position	• •	Bandwidth (MHz)	Test Mode	Max Power (dBm)		Scaled Factor	1g SAR (W/kg)		Plot
1 OSILION	(IVIIIZ)	(1/1112)		Meas.	Rated		Meas.	Scaled	
	1860	20	1RB	23.31	24.5	1.315	0.885	1.16	15#
Body Back	1880	20	1RB	24.16	24.5	1.081	0.882	0.95	16#
(0mm) 19	1900	20	1RB	23.15	24.5	1.365	0.899	1.23	17#
	1880	20	50%RB	23.44	24.5	1.276	0.188	0.24	18#
	1860	20	1RB	/	/	/	/	/	/
Body Right	1880	20	1RB	24.16	24.5	1.081	0.033	0.04	19#
(0mm)	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	23.44	24.5	1.276	0.011	0.01	20#
	1860	20	1RB	/	/	/	/	/	/
Body Top (0mm)	1880	20	1RB	24.16	24.5	1.081	0.148	0.16	21#
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	23.44	24.5	1.276	0.036	0.04	22#

LTE Band 4:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max Power (dBm)		Scaled Factor	1g SAR (W/kg)		Plot
1 oorwon (ivi	(WITE)	(WITE)		Meas.	Rated	1 detor	Meas.	Scaled	
	1720	20	1RB	22.85	25.0	1.641	0.715	1.17	23#
Body Back	1732.5	20	1RB	23.27	25.0	1.489	0.758	1.13	24#
(0mm)	1745	20	1RB	23.95	25.0	1.274	0.792	1.01	25#
	1732.5	20	50%RB	23.05	25.0	1.567	0.075	0.12	26#
	1720	20	1RB	/	/	/	/	/	/
Body Right	1732.5	20	1RB	23.27	25.0	1.489	0.032	0.05	27#
(0mm)	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	23.05	25.0	1.567	0.010	0.02	28#
	1720	20	1RB	/	/	/	/	/	/
Body Top	1732.5	20	1RB	23.27	25.0	1.489	0.233	0.35	29#
(0mm)	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	23.05	25.0	1.567	0.022	0.03	30#

SAR Test Report 56 of 70

LTE Band 5:

EUT Position	Frequency (MHz)	1 2	Test Mode	Max Power (dBm)		Scaled Factor	1g SAR (W/kg)		Plot
1 OSITION	(IVIIIZ)	(IVIIIZ)		Meas.	Rated	Tuctor	Meas.	Scaled	
	829	10	1RB	/	/	/	/	/	/
Body Back	836.5	10	1RB	24.59	25.0	1.099	0.220	0.24	31#
(0mm)	844	10	1RB	/	/	/	/	/	/
	836.5	10	50%RB	23.93	25.0	1.279	0.033	0.04	32#
	829	10	1RB	/	/	/	/	/	/
Body Right	836.5	10	1RB	24.59	25.0	1.099	0.053	0.06	33#
(0mm)	844	10	1RB	/	/	/	/	/	/
	836.5	10	50%RB	23.93	25.0	1.279	0.010	0.01	34#
	829	10	1RB	/	/	/	/	/	/
Body Top	836.5	10	1RB	24.59	25.0	1.099	0.016	0.02	35#
(0mm)	844	10	1RB	/	/	/	/	/	/
	836.5	10	50%RB	23.93	25.0	1.279	0.002	0.00	36#

LTE Band 7:

EUT Position	11	Bandwidth (MHz)	Test Mode	Max Power (dBm)		Scaled Factor	1g SAR (W/kg)		Plot
	(14112)	(141112)		Meas.	Rated	1 actor	Meas.	Scaled	
	2510	20	1RB	23.69	24.5	1.205	0.851	1.03	37#
Body Back	2535	20	1RB	23.56	24.5	1.242	0.908	1.13	38#
(0mm)	2560	20	1RB	24.08	24.5	1.102	1.07	1.18	39#
	2535	20	50%RB	23.01	24.5	1.409	0.113	0.16	40#
	2510	20	1RB	/	/	/	/	/	/
Body Right	2535	20	1RB	23.56	24.5	1.242	0.064	0.08	41#
(0mm)	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	23.01	24.5	1.409	0.014	0.02	42#
	2510	20	1RB	/	/	/	/	/	/
Body Top	2535	20	1RB	23.56	24.5	1.242	0.334	0.41	43#
(0mm)	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	23.01	24.5	1.409	0.049	0.07	44#

SAR Test Report 57 of 70

Note:

- 1. When the 1-g SAR is ≤ 0.8 W/Kg, testing for other channels are optional.
- 2. SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02.

Report No.: SZ4210419-12287E-SA

- 3. KDB941225D05-SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is > 0.5 dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg
- 4. KDB941225D05-For QPSK with 100% RB allocation, when the reported SAR measured for the Highest output power channel is <1.45 W/kg, tests for the remaining required test channels are optional.
- 5.KDB941225D05- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
- 6. KDB941225D05- Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offset the upper edge, middle and lower edge of each required test channel.
- 7. KDB941225D05- other channel bandwidths SAR test is required when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > 0.5 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.
- 8. Worst case SAR for 50% RB allocation is selected to be tested.
- 9. KDB 648474 D04-When the peak SAR located in regions that probe is unable to access, a flat phantom is used for SAR measurement.
- 10. For modes that peak SAR is too low to evaluate, a SAR value 0 W/kg is considered as their Scaled SAR.

SAR Test Report 58 of 70

WLAN 2.4G:

EUT	Frequency	Test	Max. Meas.	Max. Rated		1g SAR	1g SAR (W/kg)			
Position	1		Power	Scaled Factor	Meas. SAR	Scaled SAR	Plot			
	2412	802.11b	/	/	/	/	/	/		
Body Back (0mm)	2442	802.11b	10.36	11.5	1.300	0.096	0.12	45#		
(omin)	2472	802.11b	/	/	/	/	/	/		
	2412	802.11b	/	/	/	/	/	/		
Body Top (0mm)	2442	802.11b	10.36	11.5	1.300	0.021	0.03	46#		
(= ====)	2472	802.11b	/	/	/	/	/	/		

Note:

- When the 1-g SAR is≤ 0.8W/Kg, testing for other channels are optional.
 When the highest *reported* SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR is not required.
 When SAR or MPE 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.

SAR Test Report 59 of 70

SAR Measurement Variability

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01. 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

Report No.: SZ4210419-12287E-SA

- 1) 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 ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 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.

Note: The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

The Highest Measured SAR Configuration in Each Frequency Band

Body

SAR probe	Frequency Freq (MHz)		EUT Davidian	Meas. SA	Largest to Smallest		
calibration point	Band	Freq.(MHz)	EUT Position	Original	Repeated	SAR Ratio	
1900 MHz (1850-1910MHz)	LTE Band 2	1900	Body Back	0.899	0.888	1.01	
1800 MHz (1710-1755MHz)	LTE Band 4	1745	Body Back	0.792	0.795	1.00	
2545 MHz (2500-2570MHz)	LTE Band 7	2560	Body Back	1.07	1.01	1.05	

Note:

- 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.
- 2. The measured SAR results **do not** have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.
- 3. SAR measurement variability must be assessed for each frequency band, which is determined by the **SAR probe calibration point and tissue-equivalent medium** used for the device measurements..

SAR Test Report 60 of 70

SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

Simultaneous Transmission:

Description of Simultaneous Transmit Capabilities							
Transmitter Combination	Simultaneous?	Hotspot?					
WWAN(GSM/WCDMA) + Bluetooth	$\sqrt{}$	×					
WWAN(GSM/WCDMA) + WLAN	V	√					

Report No.: SZ4210419-12287E-SA

Simultaneous and Hotspot SAR test exclusion considerations:

Mode(SAR1+SAR2)	Position	Reported S	SAR(W/kg)	ΣSAR <	
Nious(Britti (Britti)	I OBICION	SAR1	SAR2	1.6W/kg	
GSM 850+Bluetooth	Body Worn Back	0.19	0.26	0.450	
OSM 920+DIRECOOLL	Body Back	0.28	0.26	0.540	
PCS1900 +Bluetooth	Body Worn Back	0.27	0.26	0.530	
PCS1900 +Bluetootii	Body Back	0.51	0.26	0.770	
WCDMA Band 2+Bluetooth	Body Back	0.54	0.26	0.800	
WCDMA Band 5+Bluetooth	Body Back	0.12	0.26	0.380	
LTE Band 2+Bluetooth	Body Back	1.23	0.26	1.490	
LTE Band 4+Bluetooth	Body Back	1.17	0.26	1.430	
LTE Band 5+Bluetooth	Body Back	0.24	0.26	0.500	
LTE Band 7+Bluetooth	Body Back	1.18	0.26	1.440	

SAR Test Report 61 of 70

Mode(SAR1+SAR2)	Position	Reported	SAR(W/kg)	ΣSAR < 1.6W/kg
		SAR1	SAR2	1.0 VV/Kg
GSM 850+ WLAN(2.4G)	Body Worn Back	0.19	0.12	0.310
CDDC 950 . WILANG 4C)	Body Back	0.28	0.12	0.400
GPRS 850 +WLAN(2.4G) (Hotspot)	Body Right	0.05	/	0.050
(Hotspot)	Body Top	0.02	0.03	0.050
PCS1900 + WLAN(2.4G)	Body Worn Back	0.27	0.12	0.390
GDDG 1000 WH ANYO 4G	Body Back	0.51	0.12	0.630
GPRS 1900 +WLAN(2.4G) (Hotspot)	Body Right	0.02	/	0.020
	Body Top	0.10	0.03	0.130
WCDMA Band 2+ WLAN(2.4G)	Body Back	0.54	0.12	0.660
	Body Right	0.03	/	0.030
	Body Top	0.09	0.03	0.120
WCDM D 15	Body Back	0.12	0.12	0.240
WCDMA Band 5+ WLAN(2.4G)	Body Right	0.04	/	0.040
W LAN(2.40)	Body Top	0.01	0.03	0.040
LEE D. 10 MILANIA (O.	Body Back	1.23	0.12	1.350
LTE Band 2+ WLAN(2.4G) (Hotspot)	Body Right	0.04	/	0.040
(Hotspot)	Body Top	0.16	0.03	0.190
LEE D. 14 MILANIA (O. AC)	Body Back	1.17	0.12	1.290
LTE Band 4+ WLAN(2.4G) (Hotspot)	Body Right	0.05	/	0.050
(Hotspot)	Body Top	0.35	0.03	0.380
1. TT D	Body Back	0.24	0.12	0.360
LTE Band 5+ WLAN(2.4G) (Hotspot)	Body Right	0.06	/	0.060
(11οιεροί)	Body Top	0.02	0.03	0.050
	Body Back	1.18	0.12	1.300
LTE Band 7+ WLAN(2.4G) (Hotspot)	Body Right	0.08	/	0.080
(11013p01)	Body Top	0.41	0.03	0.440

SAR Test Report 62 of 70

Mode(SAR1+SAR2)	Position	Reported S	SAR(W/kg)	ΣSAR < 1.6W/kg
		SAR1	SAR2	1.0 W/Kg
GSM 850+ WLAN(5.2G)	Body Worn Back	0.19	0.21	0.400
CDDC 950 - WI AN(5 2C)	Body Back	0.28	0.21	0.490
GPRS 850 +WLAN(5.2G) (Hotspot)	Body Right	0.05	/	0.050
(Hotspot)	Body Top	0.02	0.16	0.180
PCS1900 + WLAN(5.2G)	Body Worn Back	0.27	0.21	0.480
GPRS 1900 +WLAN(5.2G) (Hotspot)	Body Back	0.51	0.21	0.720
	Body Right	0.02	/	0.020
	Body Top	0.10	0.16	0.260
WCDMA Band 2+ WLAN(5.2G)	Body Back	0.54	0.21	0.750
	Body Right	0.03	/	0.030
	Body Top	0.09	0.16	0.250
WCDMAD 15	Body Back	0.12	0.21	0.330
WCDMA Band 5+ WLAN(5.2G)	Body Right	0.04	/	0.040
W LAN(3.20)	Body Top	0.01	0.16	0.170
LEED 12 MILANUS 20	Body Back	1.23	0.21	1.440
LTE Band 2+ WLAN(5.2G) (Hotspot)	Body Right	0.04	/	0.040
(Ποισμοί)	Body Top	0.16	0.16	0.320
LEED 14 MILANIS OC	Body Back	1.17	0.21	1.380
LTE Band 4+ WLAN(5.2G) (Hotspot)	Body Right	0.05	/	0.050
(Hotspot)	Body Top	0.35	0.16	0.510
V. T. D. 1.5. VV. 1.3.(5.2G)	Body Back	0.24	0.21	0.450
LTE Band 5+ WLAN(5.2G) (Hotspot)	Body Right	0.06	/	0.060
	Body Top	0.02	0.16	0.180
	Body Back	1.18	0.21	1.390
LTE Band 7+ WLAN(5.2G) (Hotspot)	Body Right	0.08	/	0.080
(110ιδρύι)	Body Top	0.41	0.16	0.570

SAR Test Report 63 of 70

Mode(SAR1+SAR2)	Position	Reported S	SAR(W/kg)	ΣSAR < 1.6W/kg
		SAR1	SAR2	1.0 W/Kg
GSM 850+ WLAN(5.8G)	Body Worn Back	0.19	0.18	0.370
CDDG 050 WH ANG 0G)	Body Back	0.28	0.18	0.460
GPRS 850 +WLAN(5.8G) (Hotspot)	Body Right	0.05	/	0.050
(Hotspot)	Body Top	0.02	0.07	0.090
PCS1900 + WLAN(5.8G)	Body Worn Back	0.27	0.18	0.450
CDDG 1000 NH AN(5 0C)	Body Back	0.51	0.18	0.690
GPRS 1900 +WLAN(5.8G) (Hotspot)	Body Right	0.02	/	0.020
(Hotspot)	Body Top	0.10	0.07	0.170
WCDMA Band 2+ WLAN(5.8G)	Body Back	0.54	0.18	0.720
	Body Right	0.03	/	0.030
	Body Top	0.09	0.07	0.160
W(0D) () D 1 5	Body Back	0.12	0.18	0.300
WCDMA Band 5+ WLAN(5.8G)	Body Right	0.04	/	0.040
WEAR(3.00)	Body Top	0.01	0.07	0.080
LEED 12 WILLIAMS OC	Body Back	1.23	0.18	1.410
LTE Band 2+ WLAN(5.8G) (Hotspot)	Body Right	0.04	/	0.040
(Hotspot)	Body Top	0.16	0.07	0.230
LEED 14 WHANKS OC	Body Back	1.17	0.18	1.350
LTE Band 4+ WLAN(5.8G) (Hotspot)	Body Right	0.05	/	0.050
(Hotspot)	Body Top	0.35	0.07	0.420
15 W 11 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	Body Back	0.24	0.18	0.420
LTE Band 5+ WLAN(5.8G) (Hotspot)	Body Right	0.06	/	0.060
	Body Top	0.02	0.07	0.090
LEED 15 WILLIAMS CO.	Body Back	1.18	0.18	1.360
LTE Band 7+ WLAN(5.8G) (Hotspot)	Body Right	0.08	/	0.080
(11013401)	Body Top	0.41	0.07	0.480

Note:

- 1. Hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge; for the data modes, wireless technologies and frequency bands supporting hotspot mode.
- 2. Hotspot Mode is not feasible during voice calls.
- 3. Please Refer to the SAR Report SZ4210419-12287E-SAB.

Conclusion:

Sum of SAR: ∑ SAR ≤ 1.6 W/kg therefore simultaneous transmission SAR with Volume Scans is not required.

SAR Test Report 64 of 70

SAR Test Report 65 of 70

APPENDIX A MEASUREMENT UNCERTAINTY

The uncertainty budget has been determined for the measurement system and is given in the following Table.

Measurement uncertainty evaluation for IEEE1528-2013 SAR test

Source of uncertainty	Tolerance/ uncertaint y ±%	Probability distributio n	Divisor	ci (1 g)	ci (10 g)	Standard uncertai nty ±%, (1 g)	Standard uncertai nty ± %, (10 g)				
Measurement system											
Probe calibration	6.55	N	1	1	1	6.6	6.6				
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7				
Hemispherical Isotropy	9.6	R	√3	0	0	0.0	0.0				
Boundary effect	1.0	R	√3	1	1	0.6	0.6				
Linearity	4.7	R	√3	1	1	2.7	2.7				
Detection limits	1.0	R	√3	1	1	0.6	0.6				
Readout electronics	0.3	N	1	1	1	0.3	0.3				
Response time	0.0	R	√3	1	1	0.0	0.0				
Integration time	0.0	R	√3	1	1	0.0	0.0				
RF ambient conditions – noise	1.0	R	$\sqrt{3}$	1	1	0.6	0.6				
RF ambient conditions—reflections	1.0	R	√3	1	1	0.6	0.6				
Probe positioner mech. Restrictions	0.8	R	√3	1	1	0.5	0.5				
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9				
Post-processing	2.0	R	√3	1	1	1.2	1.2				
		Test sample	related								
Test sample positioning	2.8	N	1	1	1	2.8	2.8				
Device holder uncertainty	6.3	N	1	1	1	6.3	6.3				
Drift of output power	5.0	R	√3	1	1	2.9	2.9				
		Phantom and	set-up								
Phantom uncertainty (shape and thickness tolerances)	4.0	R	$\sqrt{3}$	1	1	2.3	2.3				
Liquid conductivity target)	5.0	R	√3	0.64	0.43	1.8	1.2				
Liquid conductivity meas.)	2.5	N	1	0.64	0.43	1.6	1.1				
Liquid permittivity target)	5.0	R	√3	0.6	0.49	1.7	1.4				
Liquid permittivity meas.)	2.5	N	1	0.6	0.49	1.5	1.2				
Combined standard uncertainty		RSS				12.2	12.0				
Expanded uncertainty 95 % confidence interval)						24.3	23.9				

SAR Test Report 66 of 70

Measurement uncertainty evaluation for IEC62209-2 SAR test

Source of uncertainty	Tolerance/ uncertai nty ±%	Probability distributio n	Divisor	ci (1 g)	ci (10 g)	Standard uncertai nty ± %, (1 g)	Standard uncertai nty ± %, (10 g)
		Measurement	system	JI.	ı		, J
Probe calibration	6.55	N	1	1	1	6.6	6.6
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7
Hemispherical Isotropy	9.6	R	√3	0	0	0.0	0.0
Linearity	4.7	R	√3	1	1	2.7	2.7
Modulation Response	0.0	R	√3	1	1	0.0	0.0
Detection limits	1.0	R	√3	1	1	0.6	0.6
Boundary effect	1.0	R	√3	1	1	0.6	0.6
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	√3	1	1	0.0	0.0
Integration time	0.0	R	√3	1	1	0.0	0.0
RF ambient conditions – noise	1.0	R	√3	1	1	0.6	0.6
RF ambient conditions–reflections	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Probe positioner mech. Restrictions	0.8	R	√3	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	$\sqrt{3}$	1	1	3.9	3.9
Post-processing	2.0	R	√3	1	1	1.2	1.2
		Test sample	related	1			
Device holder Uncertainty	6.3	N	1	1	1	6.3	6.3
Test sample positioning	2.8	N	1	1	1	2.8	2.8
Power scaling	4.5	R	√3	1	1	2.6	2.6
Drift of output power	5.0	R	√3	1	1	2.9	2.9
		Phantom and	set-up				
Phantom uncertainty (shape and thickness tolerances)	4.0	R	√3	1	1	2.3	2.3
Algorithm for correcting SAR for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.1	0.9
Liquid conductivity (meas.)	2.5	N	1	0.64	0.43	1.6	1.1
Liquid permittivity (meas.)	2.5	N	1	0.6	0.49	1.5	1.2
Temp. unc Conductivity	1.7	R	√3	0.78	0.71	0.8	0.7
Temp. unc Permittivity	0.3	R	$\sqrt{3}$	0.23	0.26	0.0	0.0
Combined standard uncertainty		RSS				12.2	12.1
Expanded uncertainty 95 % confidence interval)						24.5	24.2

SAR Test Report 67 of 70

Report No.: SZ4210419-12287E-SA

APPENDIX B EUT TEST POSITION PHOTOS

Please Refer to the Attachment.

SAR Test Report 68 of 70

Report No.: SZ4210419-12287E-SA

APPENDIX C PROBE CALIBRATION CERTIFICATES

Please Refer to the Attachment.

SAR Test Report 69 of 70

***** END OF REPORT *****

SAR Test Report 70 of 70