SAR Test Report

Report No.: AGC14246240702FH01

FCC ID	:	2BKOZ-S7
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Mobile phone
BRAND NAME	:	Pure talk
MODEL NAME	:	S7
APPLICANT	:	Pure Talk
DATE OF ISSUE	:	Aug. 21, 2024
STANDARD(S)	:	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2005
REPORT VERSION	:	V1.0

Attestation of Global Compliance(Shenzhen) Co., Ltd.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Aug. 21, 2024	Valid	Initial Release

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Report

Applicant Name	Pure Talk
Applicant Address	5308 13th Ave., Brooklyn, NY 11219
Manufacturer Name	HK SUPER VITA LIMITED
Manufacturer Address	ROOM 1D, 2/F, FU TAO BUILDING, 98 ARGYLE STREET, MONGKOK, KOWLOON, HONG KONG.
Factory Name	N/A
Factory Address	N/A
Product Designation	Mobile phone
Brand Name	Pure talk
Model Name	S7
EUT Voltage	DC 3.85V
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2005
Date of receipt of test item	Jul. 16, 2024
Test Date	Jul. 20, 2024 to Aug. 16, 2024
Report Template	AGCRT-US-4G/SAR (2021-04-20)

Note: The results of testing in this report apply to the product/system which was tested only.

Prepared By

Thea Huang

Thea Huang (Project Engineer) Aug. 21, 2024

Reviewed By

Calvin Liu

Calvin Liu (Reviewer) Aug. 21, 2024

Approved By

Max Zhang

Max Zhang (Authorized Officer) Aug. 21, 2024

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

TABLE OF CONTENTS

1. SUMMARY OF MAXIMUM SAR VALUE 5

2. GENERAL INFORMATION 6

2.1. EUT DESCRIPTION 6

3. SAR MEASUREMENT SYSTEM 8

3.1. THE SATIMO SYSTEM USED FOR PERFORMING COMPLIANCE TESTS CONSISTS OF FOLLOWING ITEMS 8
3.2. COMOSAR E-FIELD PROBE 9
3.3. ROBOT 9
3.4. VIDEO POSITIONING SYSTEM 10
3.5. DEVICE HOLDER 10
3.6. SAM TWIN PHANTOM 11

4. SAR MEASUREMENT PROCEDURE 12

4.1. SPECIFIC ABSORPTION RATE (SAR) 12
4.2. SAR MEASUREMENT PROCEDURE 13
4.3. RF EXPOSURE CONDITIONS 15

5. TISSUE SIMULATING LIQUID 17

5.1. THE COMPOSITION OF THE TISSUE SIMULATING LIQUID 17
5.2. TISSUE DIELECTRIC PARAMETERS FOR HEAD AND BODY PHANTOMS 18
5.3. TISSUE CALIBRATION RESULT 19

6. SAR SYSTEM CHECK PROCEDURE 22

6.1. SAR SYSTEM CHECK PROCEDURES 22
6.2. SAR SYSTEM CHECK 23

7. EUT TEST POSITION 25

7.1. DEFINE TWO IMAGINARY LINES ON THE HANDSET 25
7.2. CHEEK POSITION 26
7.3. TILT POSITION 26
7.4. BODY WORN POSITION 27

8. SAR EXPOSURE LIMITS 28

9. TEST FACILITY 29

10. TEST EQUIPMENT LIST 30

11. MEASUREMENT UNCERTAINTY 31

12. CONDUCTED POWER MEASUREMENT 34

13. TEST RESULTS 72

13.1. SAR TEST RESULTS SUMMARY 72

APPENDIX A. SAR SYSTEM CHECK DATA 114

APPENDIX B. SAR MEASUREMENT DATA 136

APPENDIX C. TEST SETUP PHOTOGRAPHS 248

APPENDIX D. CALIBRATION DATA 257

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

1. SUMMARY OF MAXIMUM SAR VALUE

The maximum results of Specific Absorption Rate (SAR) found during testing for EUT are as follows:

Frequency Band	Highest Reported 1g-SAR(W/kg)			SAR Test Limit (W/kg)
	Head	Body-worn(with 10mm separation)	Hotspot(with 10mm separation)	
GSM 850	1.051	1.346	1.346	1.6
PCS 1900	0.203	0.637	0.637	
UMTS Band V	0.580	0.572	0.572	
LTE Band 2	0.280	0.688	0.688	
LTE Band 4	0.871	1.254	1.254	
LTE Band 5	0.745	0.751	0.751	
LTE Band 7	0.969	1.100	1.100	
LTE Band 12	0.772	0.802	0.802	
LTE Band 13	0.291	0.338	0.338	
LTE Band 17	0.781	0.823	0.823	
LTE Band 38	0.928	0.607	0.607	
LTE Band 40-Lower Side	0.457	0.392	0.392	
LTE Band 40- Upper Side	0.478	0.350	0.350	
LTE Band 41	0.793	0.513	0.513	
LTE Band 66	0.725	1.019	1.019	
LTE Band 71	0.438	0.510	0.510	
WIFI 2.4G	0.509	0.239	0.239	
5.2GHz (U-NII-1)	0.229	0.140	0.140	
5.3GHz (U-NII-2A)	0.254	0.135	0.135	
5.6GHz (U-NII-2C)	0.537	0.183	0.183	
5.8GHz (U-NII-3)	0.600	0.205	0.205	
Simultaneous Reported SAR	1.585			
SAR Test Result	PASS			

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/kg) specified in IEEE Std. 1528:2013; FCC 47CFR § 2.1093; IEEE/ANSI C95.1:2005 and the following specific FCC Test Procedures:

- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 648474 D04 Handset SAR v01r03
- KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04
- KDB 941225 D01 3G SAR Procedures v03r01
- KDB 941225 D06 Hotspot Mode v02r01
- KDB 248227 D01 802 11 Wi-Fi SAR v02r02
- KDB 941225 D05 SAR for LTE Devices v02r05

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Designation	Mobile phone
Test Model	S7
Sample ID	240715105
Hardware Version	A671-MB-V0.1
Software Version	Android 13
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
GSM and GPRS& EGPRS	
Support Band	☒ GSM 850 ☒ PCS 1900 ☐ GSM 900 ☐ DCS 1800
GPRS & EGPRS Type	Class B
GPRS & EGPRS Class	Class 12(1Tx+4Rx, 2Tx+3Rx, 3Tx+2Rx, 4Tx+1Rx)
TX Frequency Range	GSM 850 : 820-850MHz; PCS 1900: 1850-1910MHz;
RX Frequency Range	GSM 850 : 869~894MHz; PCS 1900: 1930~1990MHz
Release Version	R99
Type of modulation	GMSK for GSM/GPRS; GMSK & 8-PSK for EGPRS
Antenna Gain	GSM850: -0.9dBi; PCS1900: 0.7dBi
Max. Conducted output power	GSM850: 33.39dBm; PCS1900: 29.38dBm
WCDMA	
Support Band	☐ UMTS FDD Band II ☒ UMTS FDD Band V ☐ UMTS FDD Band IV ☐ UMTS FDD Band I ☐ UMTS FDD Band III ☐ UMTS FDD Band VIII
HS Type	HSPA(HSUPA/HSDPA)
TX Frequency Range	FDD Band V: 824-849MHz
RX Frequency Range	FDD Band V: 869-894MHz
Release Version	Release 6 and later
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Gain	Band V: -0.9dBi
Max. Conducted output power	Band V: 23.25dBm
Bluetooth	
Bluetooth Version	V5.0
Operation Frequency	2402~2480MHz
Type of modulation	☒ GFSK ☒ Π/4-DQPSK ☒ 8-DPSK
Max. Peak Conducted Output Power	4.10dBm
Antenna Gain	-1dBi
2.4GHz WIFI	
WIFI Specification	☐ 802.11a ☒ 802.11b ☒ 802.11g ☒ 802.11n(20) ☒ 802.11n(40)
Operation Frequency	2412~2462MHz
Max. Peak Conducted Output Power	11b: 15.30dBm,11g: 14.01dBm,11n(20): 12.73dBm,11n(40): 12.36dBm
Antenna Gain	1.2dBi

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

EUT Description(Continue)

LTE	
Support Band	☒ FDD Band 2 ☒ FDD Band 4 ☒ FDD Band 5 ☒ FDD Band 7 ☒ FDD Band 12 ☒ FDD Band 13 ☐ FDD Band 14 ☒ FDD Band 17 ☐ FDD Band 25 ☐ FDD Band 26 ☒ TDD Band 38 ☒ TDD Band 40 ☒ TDD Band 41 ☒ FDD Band 66 ☒ FDD Band 71 (U.S. Bands)
TX Frequency Range	Band 2:1850-1910MHz; Band 4:1710-1755MHz; Band 5:824-849MHz; Band 7:2500-2570MHz; Band 12:699-716MHz; Band 13: 777-787MHz; Band 17: 704-716MHz; Band 38: 2570-2620 MHz; Band 40:2305-2315&2350-2360MHz; Band 41: 2535-2655MHz; Band 66:1700-1780MHz; Band 71:663-698MHz
RX Frequency Range	Band 2:1930-1990MHz; Band 4:2110-2155MHz; Band 5:869-894MHz; Band 7:2620-2690MHz; Band 12: 729-746 MHz; Band 13: 746-756MHz; Band 17: 734-746 MHz; Band 38: 2570-2620 MHz; Band 40:2305-2315&2350-2360MHz; Band 41: 2535-2655MHz; Band 66:2110-2200MHz; Band 71:617-652MHz
Type of modulation	QPSK, 16QAM
Antenna Gain	Band 2: 1.4dBi; Band 4: 1.3dBi; Band 5: -0.9dBi; Band 7:0.8dBi; Band 12: -1.8dBi; Band 13: -1.8dBi; Band 17: -1.8dBi; Band 38: 0.8dBi; Band 40(Lower Side): 0.7dBi; Band 40(Upper Side): 0.7dBi; Band 41: 0.8dBi; Band 66: 1.3dBi; Band 71: -2.7dBi;
Max. Conducted output power	Band 2: 23.48dBm; Band 4: 23.74dBm; Band 5: 24.21dBm; Band 7: 23.19 dBm; Band 12: 24.32 dBm; Band 13: 23.89dBm; Band 17: 24.22 dBm; Band 38: 23.39dBm; Band 40(Lower Side): 12.56dBm; Band 40 (Upper Side): 12.53 dBm; Band 41: 23.56dBm; Band 66: 23.72dBm; Band 71: 24.35dBm;
5 GHz WIFI	
WIFI Specification	☒ 802.11a ☒ 802.11n20 ☒ 802.11n40 ☒ 802.11ac20 ☒ 802.11ac40 ☒ 802.11ac80
Operation Frequency	U-NII-1: 5150MHz~5250MHz; U-NII-2A: 5250MHz~5350MHz; U-NII-2C: 5470MHz~5725MHz;U-NII-3: 5725MHz~5850MHz
Max. Peak Conducted Output Power	U-NII-1: 14.68dBm; U-NII-2A: 14.89dBm; U-NII-2C: 15.19dBm; U-NII-3: 14.83dBm
Antenna Gain	-1dBi
Accessories	
Battery	Brand name: N/A Model No. : S7 Voltage and Capacitance: 3.85 V & 2150mAh
Earphone	Brand name: N/A Model No. : N/A

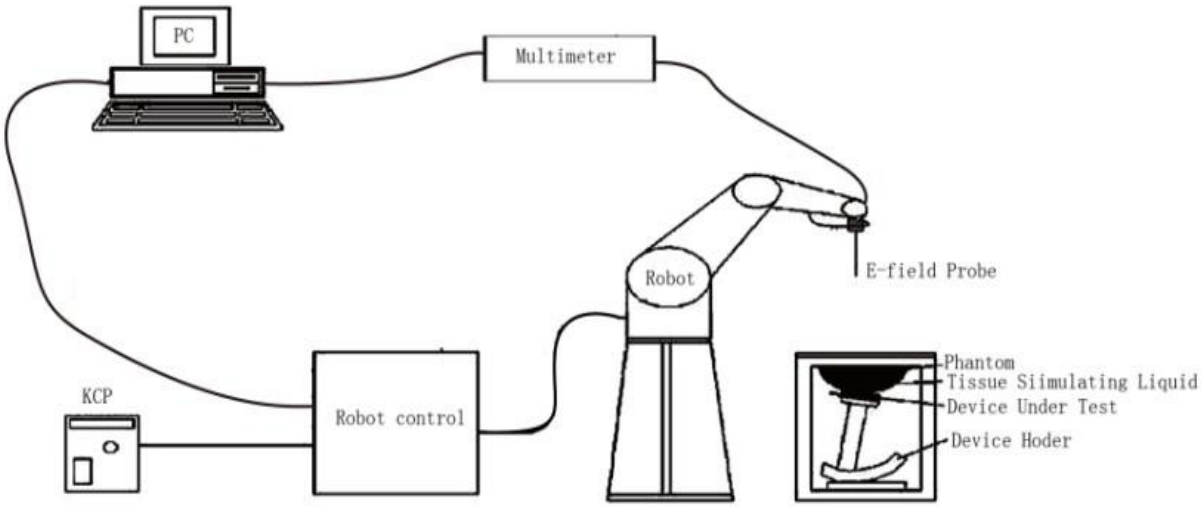
Note:1.CMU200 can measure the average power and Peak power at the same time
2.The sample used for testing is end product.
3. The test sample has no any deviation to the test method of standard mentioned in page 1.

Product	Type
	☒ Production unit ☐ Identical Prototype

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

3. SAR MEASUREMENT SYSTEM

3.1. The SATIMO system used for performing compliance tests consists of following items



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

· The PC. It controls most of the bench devices and stores measurement data.A computer running WinXP and the Opensar software.

· The E-Field probe. The probe is a 3-axis system made of 3 distinct dipoles. Each dipole returns a voltage in function of the ambient electric field.

· The Keithley multimeter measures each probe dipole voltages.

· The SAM phantom simulates a human head. The measurement of the electric field is made inside the phantom.

· The liquids simulate the dielectric properties of the human head tissues.

· The network emulator controls the mobile phone under test.

· The validation dipoles are used to measure a reference SAR. They are used to periodically check the bench to make sure that there is no drift of the system characteristics over time.

·The phantom, the device holder and other accessories according to the targeted measurement.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

3.2. COMOSAR E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SATIMO. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. SATIMO conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528 and relevant KDB files.) The calibration data are in Appendix D.

Isotropic E-Field Probe Specification

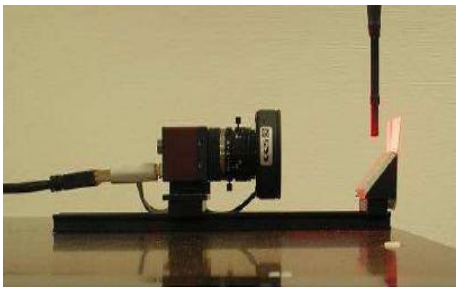
Model	SSE2	
Manufacture	MVG	
Identification No.	2023-EPGO-414	
Frequency	0.15GHz-7.5GHz Linearity:±0.08dB(0.15GHz-7.5GHz)	
Dynamic Range	0.01W/kg-100W/kg Linearity:±0.08dB	
Dimensions	Overall length:330mm Length of individual dipoles:2mm Maximum external diameter:8mm Probe Tip external diameter:2.5mm Distance between dipoles/ probe extremity:1mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precisin of better 30%.	

3.3. Robot

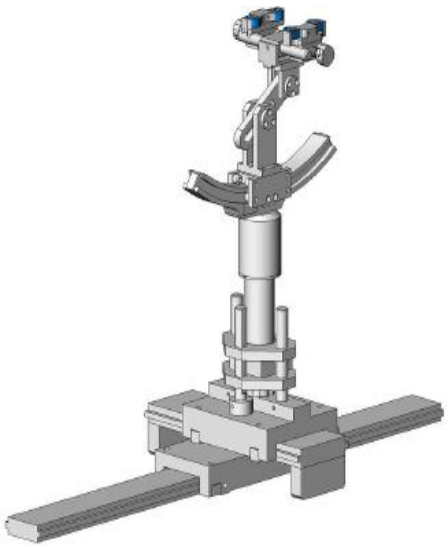
The COMOSAR system uses the KUKA robot from SATIMO SA (France).For the 6-axis controller COMOSAR system, the KUKA robot controller version from SATIMO is used. The XL robot series have many features that are important for our application: High precision (repeatability 0.02 mm) High reliability (industrial design) Jerk-free straight movements Low ELF interference (the closed metallic construction shields against motor control fields) 6-axis controller	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

3.4. Video Positioning System

The video positioning system is used in OpenSAR to check the probe. Which is composed of a camera, LED, mirror and mechanical parts.The camera is piloted by the main computer with firewire link. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip. The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.	

3.5. Device Holder

The COMOSAR device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR). Thus the device needs no repositioning when changing the angles. The COMOSAR device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity εr =3 and loss tangent δ = 0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

3.6. SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas: Left head Right head Flat phantom	

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

4. SAR MEASUREMENT PROCEDURE

4.1. Specific Absorption Rate (SAR)

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

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

$$\mathrm{SAR} = \frac{\mathrm{d}}{\mathrm{d}t}\left(\frac{\mathrm{d}W}{\mathrm{d}m}\right) = \frac{\mathrm{d}}{\mathrm{d}t}\left(\frac{\mathrm{d}W}{\rho \mathrm{d}V}\right)$$

SAR is expressed in units of Watts per kilogram (W/kg)
SAR can be obtained using either of the following equations:

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

$$\mathrm{SAR} = c_h \left.\frac{\mathrm{d}T}{\mathrm{d}t}\right|_{t=0}$$

Where

SAR	is the specific absorption rate in watts per kilogram;
E	is the r.m.s. value of the electric field strength in the tissue in volts per meter;
σ	is the conductivity of the tissue in siemens per metre;
ρ	is the density of the tissue in kilograms per cubic metre;
c_h	is the heat capacity of the tissue in joules per kilogram and Kelvin;
$\frac{\mathrm{dT}}{\mathrm{dt}} \mid \mathrm{t} = 0$	is the initial time derivative of temperature in the tissue in kelvins per second

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

4.2. SAR Measurement Procedure

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface is 2.7mm This distance cannot be smaller than the distance os sensor calibration points to probe tip as `defined in the probe properties,

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in SATIMO software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in db) is specified in the standards for compliance testing. For example, a 2db range is required in IEEE Standard 1528 standards, whereby 3db is a requirement when compliance is assessed in accordance with the ARIB standard (Japan) If one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximum are detected, the number of Zoom Scan has to be increased accordingly.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100MHz to 6GHz

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan

Zoom Scan are used to assess the peak spatial SAR value within a cubic average volume containing 1g abd 10g of simulated tissue. The Zoom Scan measures points(refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1g and 10g and displays these values next to the job's label.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Zoom Scan Parameters extracted from KDB865664 d01 SAR Measurement 100MHz to 6GHz

Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

Step 4: Power Drift Measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the same settings. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

4.3. RF Exposure Conditions

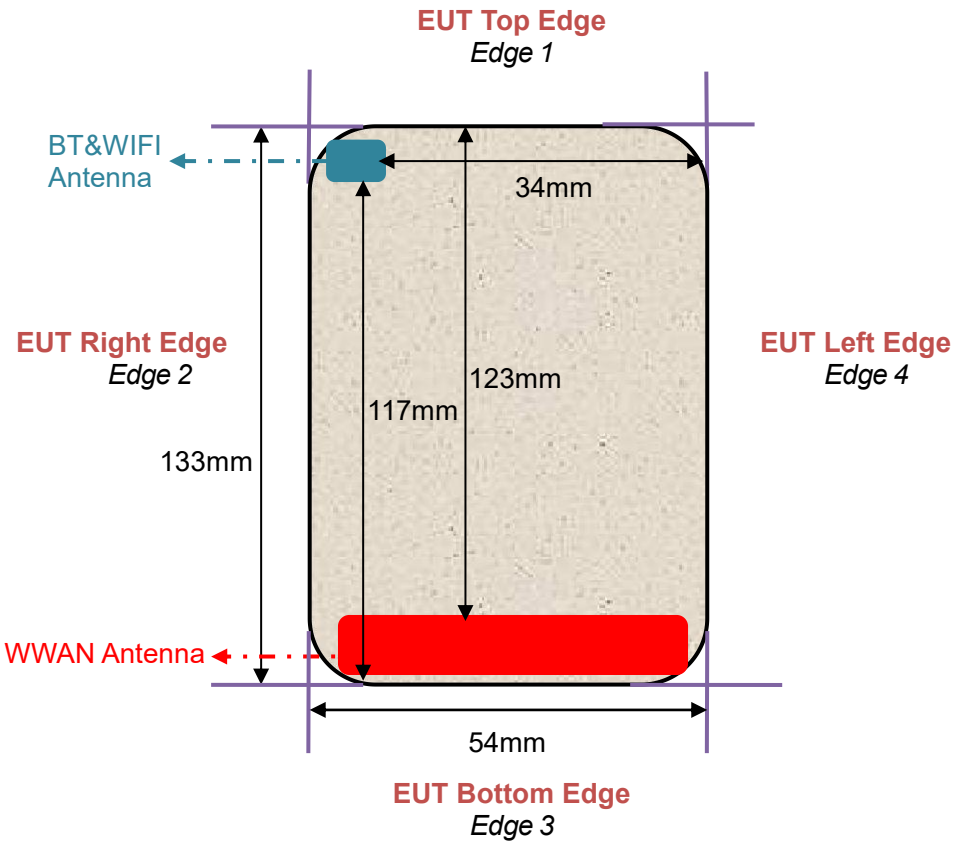
Test Configuration and setting:

The EUT is a model of GSM Portable Mobile Station (MS). It supports GSM/GPRS/EGPRS, WCDMA/HSPA, LTE, BT, WIFI, and support hot spot mode.

For WWAN SAR testing, the device was controlled by using a base station emulator. Communication between the device and the emulator were established by air link. The distance between the EUT and the antenna is larger than 50cm, and the output power radiated from the emulator antenna is at least 30db smaller than the output power of EUT.

For WLAN testing, the EUT is configured with the WLAN continuous TX tool through engineering command.

Antenna Location: (the back view)



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

For WWAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Head			
Left Touch		Yes	--
Left Tilt		Yes	--
Right Touch		Yes	--
Right Tilt		Yes	--
Body			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Hotspot			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	123mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 2 (Right)	7mm	Yes	--
Edge 3 (Bottom)	2mm	Yes	--
Edge 4 (Left)	7mm	Yes	--

For WLAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Head			
Left Touch		Yes	--
Left Tilt		Yes	--
Right Touch		Yes	--
Right Tilt		Yes	--
Body			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Hotspot			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	2mm	Yes	--
Edge 2 (Right)	2mm	Yes	--
Edge 3 (Bottom)	117mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 4 (Left)	34mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

5. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 10% are listed in 6.2

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) / **Frequency** (MHz)	**Water**	**Nacl**	**Polysorbate 20**	**DGBE**	**1,2-Propanediol**	**Triton X-100**	**Diethylen glycol monohex ylether**
750 Head	35	2	0.0	0.0	63	0.0	0.0
835 Head	50.36	1.25	48.39	0.0	0.0	0.0	0.0
1750 Head	52.64	0.36	0.0	47	0.0	0.0	0.0
1900 Head	54.9	0.18	0.0	44.92	0.0	0.0	0.0
2300 Head	62.82	0.51	0.0	36.67	0.0	0.0	0.0
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97	0.0
2600 Head	55.242	0.306	0	44.452	0	0	0.0
5000 Head	65.52	0.0	0.0	0.0	0.0	17.24	17.24

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head and body tissue dielectric parameters recommended by the IEEE Std. 1528 have been incorporated in the following table.

Target Frequency (MHz)	head		body	
	εr	σ (S/m)	εr	σ (S/m)
300	45.3	0.87	45.3	0.87
450	43.5	0.87	43.5	0.87
750	**41.9**	**0.89**	**41.9**	**0.89**
835	**41.5**	**0.90**	**41.5**	**0.90**
900	41.5	0.97	41.5	0.97
915	41.5	1.01	41.5	1.01
1450	40.5	1.20	40.5	1.20
1610	40.3	1.29	40.3	1.29
1750	**40.1**	**1.37**	**40.1**	**1.37**
1800 – 2000	**40.0**	**1.40**	**40.0**	**1.40**
2300	**39.5**	**1.67**	**39.5**	**1.67**
2450	**39.2**	**1.80**	**39.2**	**1.80**
2600	**39.0**	**1.96**	**39.0**	**1.96**
3000	38.5	2.40	38.5	2.40
5200	**36.0**	**4.66**	**36.0**	**4.66**
5300	**35.9**	**4.76**	**35.9**	**4.76**
5600	**35.5**	**5.07**	**35.5**	**5.07**
5800	**35.3**	**5.27**	**35.3**	**5.27**

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

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

5.3. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using SATIMO Dielectric Probe Kit and R&S Network Analyzer ZVL6.

Tissue Stimulant Measurement for 750MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 41.9 (37.71-46.09)	δ[s/m] 0.89(0.801-0.979)		
Head	683	45.36	0.81	20.8	Jul. 23, 2024
	704	44.66	0.82		
	707.5	44.13	0.85		
	709	43.67	0.86		
	710	43.12	0.88		
	711	42.91	0.89		
	750	42.68	0.91		
	782	41.09	0.93		

Tissue Stimulant Measurement for 835MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 41.5 (37.35-45.65)	δ[s/m] 0.90(0.81-0.99)		
Head	824.2	42.96	0.87	20.9	Jul. 22, 2024
	835	42.57	0.89		
	836.4	41.86	0.90		
	836.5	41.86	0.90		
	836.6	41.86	0.90		
	848.8	40.27	0.92		

Tissue Stimulant Measurement for 1750MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 40.1 (36.09-44.11)	δ[s/m]1.37(1.233-1.507)		
Head	1720	41.76	1.31	20.5	Jul. 20, 2024
	1732.5	41.23	1.31		
	1745	40.62	1.33		
	1750	40.08	1.34		
	1755	39.72	1.36		
	1770	39.34	1.39		

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Tissue Stimulant Measurement for 1900MHz					
Head	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr40.00(36.00-44.00)	δ[s/m]1.40(1.26-1.54)		
	1880	40.31	1.35	21.0	Jul. 21, 2024
	1900	39.24	1.38		

Tissue Stimulant Measurement for 2300MHz					
Head	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 39.5 (35.55-43.45)	δ[s/m]1.67 (1.503-1.837)		
	2300	38.44	1.69	19.5	Aug. 16, 2024
	2310	37.42	1.71		
	2355	36.33	1.74		

Tissue Stimulant Measurement for 2450MHz					
Head	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr39.2(35.28-43.12)	δ[s/m]1.80(1.62-1.98)		
	2412	40.62	1.79	20.6	Jul. 24, 2024
	2450	38.99	1.83		

Tissue Stimulant Measurement for 2600MHz					
Head	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr39(35.1-42.9)	δ[s/m]1.96(1.764-2.156)		
	2510	41.69	1.78	19.9	Jul. 25, 2024
	2535	40.72	1.80		
	2560	40.39	1.82		
	2580	39.81	1.83		
	2595	39.42	1.90		
	2600	38.90	1.92		
	2610	37.62	1.95		

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Tissue Stimulant Measurement for 5200MHz					
Head	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 36.0(32.4-39.6)	δ[s/m] 4.66(4.194 -5.126)		
	5200	36.38	4.60	21.5	Jul. 29, 2024
	5240	35.42	4.62		

Tissue Stimulant Measurement for 5300MHz					
Head	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 35.9(32.31-39.49)	δ[s/m] 4.76(4.284-5.236)		
	5260	36.66	4.61	21.1	Jul. 30, 2024
	5300	35.48	4.64		

Tissue Stimulant Measurement for 5600MHz					
Head	Fr. (MHz)	Dielectric Parameters (±10%		Tissue Temp [°C]	Test time
		εr 35.5(31.95-39.05)	δ[s/m] 5.07(4.563-5.577)		
	5500	37.21	4.91	20.9	Aug. 09, 2024
	5600	35.08	4.95		

Tissue Stimulant Measurement for 5800MHz					
Head	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 35.3 (31.77-38.83)	δ[s/m] 5.27 (4.743-5.797)		
	5785	37.91	5.29	21.5	Jul. 31, 2024
	5800	36.12	5.35		

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

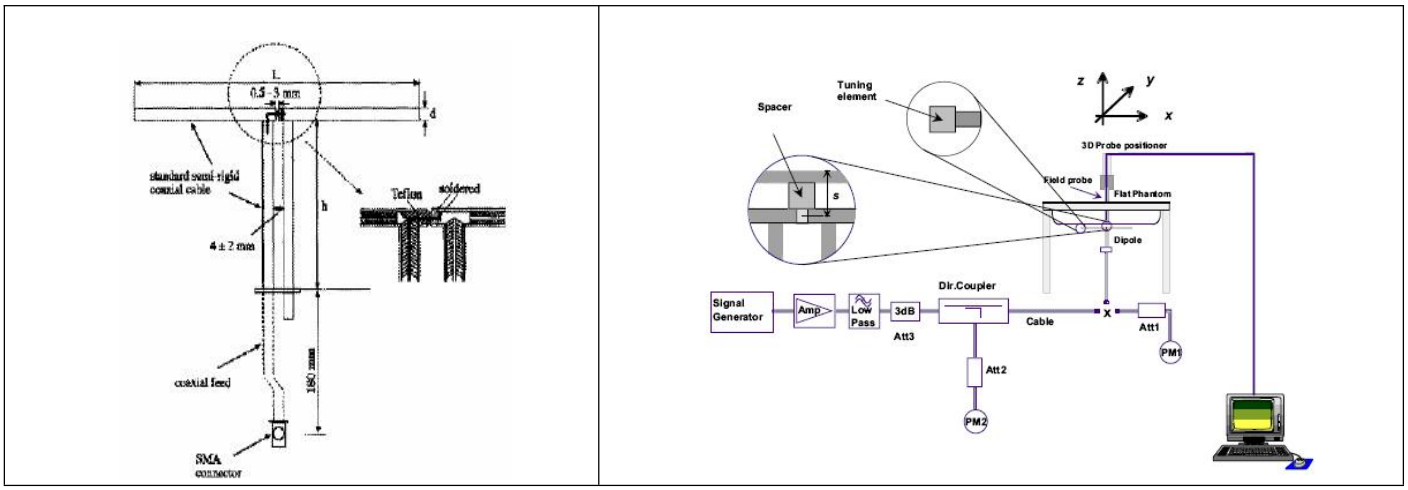
6. SAR SYSTEM CHECK PROCEDURE

6.1. SAR System Check Procedures

SAR system check is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are remeasured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

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

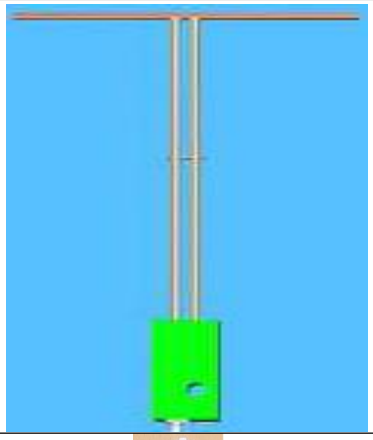
The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

6.2. SAR System Check

6.2.1. Dipoles

	The dipoles are based on the IEEE-1528 standard, and are complied with mechanical and electrical specifications in line with the requirements of IEEE. the table below provides details for the mechanical and electrical Specifications for the dipoles.
	The dipole is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of IEEE. The table below provides details for the mechanical and electrical specifications for the wave guide.

Frequency	L (mm)	h (mm)	d (mm)
750MHz	176	100	6.35
835MHz	161.0	89.8	3.6
1800MHz	71.6	41.7	3.6
1900MHz	68	39.5	3.6
2300MHz	55.5	32.6	3.6
2450MHz	51.5	30.4	3.6
2600MHz	48.5	28.8	3.6
5000MHz	20.6	40.3	3.6

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

6.2.2. System Check Result

System Performance Check at 750MHz&835MHz &1800MHz &1900MHz &2300MHz &2450MHz&2600MHz & 5200-5800MHz for Head								
Validation Kit: SN 22/16 DIP 0G750-417& SN 15/16 DIP 0G835-399& SN 46/11 DIP 1G800-186& SN 29/15 DIP 1G900-389& SN 22/16 DIP 2G300-412& SN 29/15 DIP 2G450-393& SN 22/16 DIP 2G600-407& SN 17/22 DIP 5G000-671								
Frequency [MHz]	Target Value(W/kg)		Reference Result (± 10%)		Tested Value(W/kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
750	8.33	5.44	7.497-9.163	4.896-5.984	8.88	5.74	20.8	Jul. 23, 2024
835	9.67	6.14	8.703-10.637	5.526-6.754	9.36	5.89	20.9	Jul. 22, 2024
1800	37.76	19.60	33.984-41.536	17.640-21.560	37.14	19.28	20.5	Jul. 20, 2024
1900	41.26	20.86	37.134-45.386	18.774-22.946	41.87	21.43	21.0	Jul. 21, 2024
2300	50.12	23.16	45.108-55.132	20.844-25.476	49.40	22.82	19.5	Aug. 16, 2024
2450	54.32	24.25	48.888-59.752	21.825-26.675	55.92	25.17	20.6	Jul. 24, 2024
2600	54.94	23.77	49.446-60.434	21.393-26.147	52.54	23.53	19.9	Jul. 25, 2024
5200	73.43	21.83	66.087-80.773	19.647-24.013	68.66	23.59	21.5	Jul. 29, 2024
5200	73.43	21.83	66.087-80.773	19.647-24.013	73.21	25.01	21.1	Jul. 30, 2024
5600	78.20	24.12	70.380-86.02	21.708-26.532	74.34	25.66	20.9	Aug. 09, 2024
5800	75.69	22.44	68.121-83.259	20.196-24.684	70.25	24.17	21.5	Jul. 31, 2024

Note:
(1) We use a CW signal of 18dBm &10dBm for system check, and then all SAR value are normalized to 1W forward power. The result must be within ±10% of target value.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

7. EUT TEST POSITION

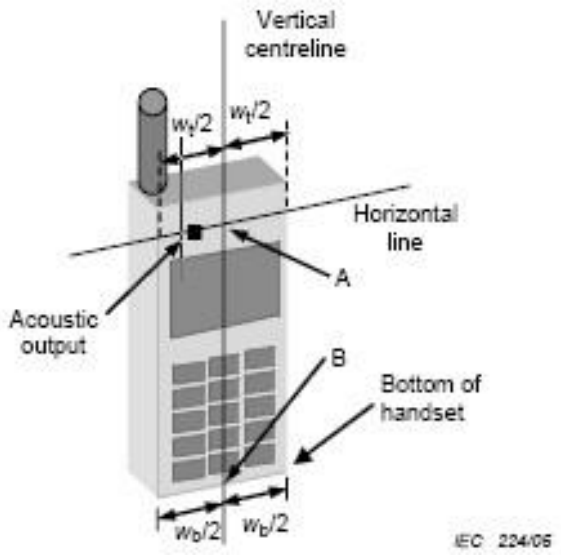
This EUT was tested in **Right Cheek, Right Tilted, Left Cheek, Left Tilted, Body back, Body front and 4 edges.**

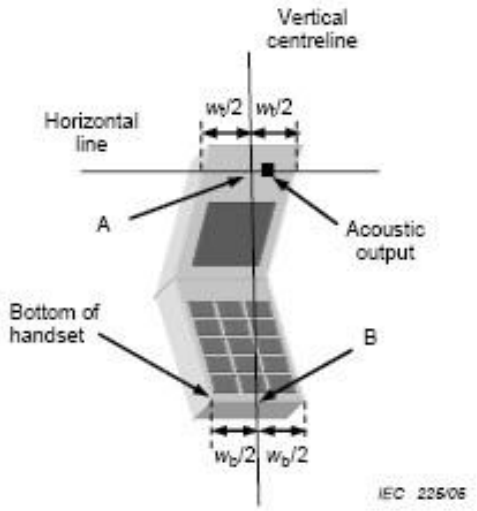
7.1. Define Two Imaginary Lines on the Handset

(1)The vertical centerline passes through two points on the front side of the handset the midpoint of the width wt of the handset at the level of the acoustic output, and the midpoint of the width wb of the handset.

(2)The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.

(3)The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.





Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

7.2. Cheek Position

(1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center picec in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.

(2) To move the device towards the phantom with the ear piece aligned with the the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost

7.3. Tilt Position

(1) To position the device in the “cheek” position described above.

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

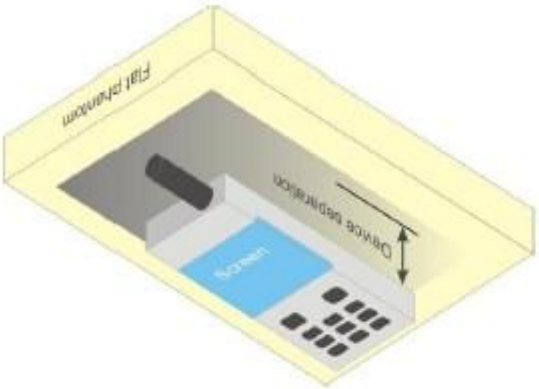
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

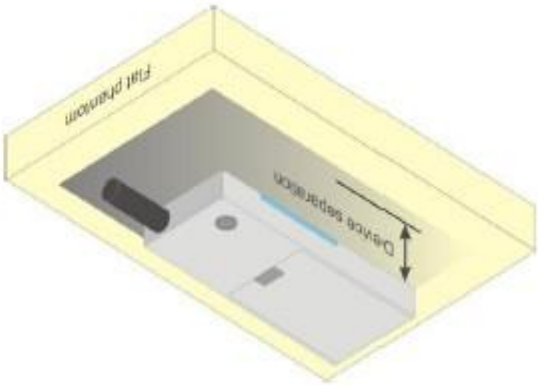
7.4. Body Worn Position

(1) To position the EUT parallel to the phantom surface.

(2) To adjust the EUT parallel to the flat phantom.

(3) To adjust the distance between the EUT surface and the flat phantom to **10mm.**





Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

8. SAR EXPOSURE LIMITS

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

Type Exposure	Uncontrolled Environment Limit (W/kg)
Spatial Peak SAR (1g cube tissue for brain or body)	1.60
Spatial Average SAR (Whole body)	0.08
Spatial Peak SAR (Limbs)	4.0

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

9. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

10. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Software version	Current calibration date	Next calibration date
SAR Probe	MVG	2023-EPGO-414	N/A	Apr. 30, 2024	Apr. 29, 2025
Phantom	SATIMO	SN_4511_SAM90	N/A	Validated. No cal required.	Validated. No cal required.
Liquid	SATIMO	N/A	N/A	Validated. No cal required.	Validated. No cal required.
Comm Tester	Agilent-8960	GB46200384	N/A	May 28, 2024	May 27, 2025
Comm Tester	R&S- CMW500	121209	V3.7.40	May 23, 2024	May 22, 2025
Multimeter	Keithley 2000	1350784	N/A	May 24, 2024	May 23, 2025
SAR Software	SATIMO-OpenSAR	N/A	OpenSAR V4_02_32	N/A	N/A
Dipole	SATIMO SID750	SN 22/16 DIP 0G750-417	N/A-	Apr. 28,2022	Apr. 27,2025
Dipole	SATIMO SID835	SN 15/16 DIP 0G835-399	N/A	Apr. 28,2022	Apr. 27,2025
Dipole	SATIMO SID1800	SN 46/11 DIP 1G800-186	N/A	Apr. 28,2022	Apr. 27,2025
Dipole	SATIMO SID1900	SN 29/15 DIP 1G900-389	N/A	Apr. 28,2022	Apr. 27,2025
Dipole	SATIMO SID2300	SN 22/16 DIP 2G300-412	N/A	Apr. 28,2022	Apr. 27,2025
Dipole	SATIMO SID2450	SN 29/15 DIP 2G450-393	N/A	Apr. 28,2022	Apr. 27,2025
Dipole	SATIMO SID2600	SN 22/16 DIP 2G600-407	N/A	Apr. 28,2022	Apr. 27, 2025
Dipole	SID5000	SN 17/22 DIP 5G000-671	N/A	Apr. 28,2022	Apr. 27, 2025
Signal Generator	Agilent-E4438C	US41461365	V5.03	May 24, 2024	May 23, 2025
Vector Analyzer	Agilent / E4440A	MY44303916	N/A	May 28, 2024	May 27, 2025
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	3.2	Sep. 21, 2023	Sep. 20, 2024
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	N/A	June 06, 2024	June 05, 2025
Attenuator	Mini-circuits / VAT-10+	31405	N/A	June 06, 2024	June 05, 2025
Amplifier	AS0104-55_55	1004793	N/A	N/A	N/A
Directional Couple	Werlatone/ C5571-10	SN99463	N/A	Feb. 01, 2024	Jan. 31, 2026
Directional Couple	Werlatone/ C6026-10	SN99482	N/A	Feb. 01, 2024	Jan. 31, 2026
Power Sensor	NRP-Z21	1137.6000.02	N/A	Sep. 05, 2023	Sep. 04, 2024
Power Sensor	NRP-Z23	100323	N/A	Jun. 05, 2024	Jun. 04, 2025
Power Viewer	R&S	V2.3.1.0	N/A	N/A	N/A
Calibration standard parts for network sub - port	R&S/ ZV-Z132	N/A	V2.3.1.0	Nov. 11, 2023	Nov. 10, 2024

Note: Per KDB 865664 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:
1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss is within 20% of calibrated measurement;
4. Impedance is within 5Ω of calibrated measurement.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

11. MEASUREMENT UNCERTAINTY

SATIMO Uncertainty- 2023-EPGO-414 Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.090	R	$\sqrt{3}$	√0.5	√0.5	0.037	0.037	∞
Hemispherical Isotropy	E.2.2	0.090	R	$\sqrt{3}$	√0.5	√0.5	0.037	0.037	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	∞
Linearity	E.2.4	0.890	R	$\sqrt{3}$	1	1	0.514	0.514	∞
System detection limits	E.2.4	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	∞
Modulation response	E2.5	3.000	R	$\sqrt{3}$	1	1	1.732	1.732	∞
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	∞
Response Time	E.2.7	0.000	R	$\sqrt{3}$	1	1	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	$\sqrt{3}$	1	1	0.808	0.808	∞
RF ambient conditions-Noise	E.6.1	3.000	R	$\sqrt{3}$	1	1	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	$\sqrt{3}$	1	1	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	$\sqrt{3}$	1	1	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	$\sqrt{3}$	1	1	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	$\sqrt{3}$	1	1	1.328	1.328	∞
Test sample Related									
Test sample positioning	E.4.2	2.6	N	1	1	1	2.600	2.600	∞
Device holder uncertainty	E.4.1	3	N	1	1	1	3.000	3.000	∞
Output power variation—SAR drift measurement	E.2.9	5	R	$\sqrt{3}$	1	1	2.887	2.887	∞
SAR scaling	E.6.5	5	R	$\sqrt{3}$	1	1	2.887	2.887	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	$\sqrt{3}$	1	1	2.309	2.309	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.900	1.596	∞
Liquid conductivity measurement	E.3.3	4	R	$\sqrt{3}$	0.78	0.71	3.120	2.840	∞
Liquid permittivity measurement	E.3.3	5	N	1	0.78	0.71	1.150	1.300	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	1.126	1.025	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	N	1	0.23	0.26	0.332	0.375	M
Combined Standard Uncertainty			RSS				10.526	10.341	
Expanded Uncertainty (95% Confidence interval)			K=2				21.052	20.682	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SATIMO Uncertainty- 2023-EPGO-414 System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.090	R	$\sqrt{3}$	1	1	0.052	0.052	∞
Hemispherical Isotropy	E.2.2	0.090	R	$\sqrt{3}$	0	0	0.000	0.000	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	∞
Linearity	E.2.4	0.890	R	$\sqrt{3}$	1	1	0.514	0.514	∞
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	E2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	∞
Response Time	E.2.7	0.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	1	1	1	5.00	5.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and set-up									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4.0	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity（temperature uncertainty）	E.3.3	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid conductivity（measured）	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity（temperature uncertainty）	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Liquid permittivity（measured）	E.3.4	5	N	1	0.23	0.26	1.15	1.30	M
Combined Standard Uncertainty			RSS				10.459	10.272	
Expanded Uncertainty (95% Confidence interval)			K=2				20.917	20.545	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SATIMO Uncertainty- 2023-EPGO-414 System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration drift	E.2.1.3	0.500	N	1	1	1	0.50	0.50	∞
Axial Isotropy	E.2.2	0.090	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	0.090	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Linearity	E.2.4	0.890	R	$\sqrt{3}$	0	0	0.00	0.00	∞
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Modulation response	E2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.021	N	1	0	0	0.00	0.00	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	2.0	N	1	1	1	2.00	2.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	R	$\sqrt{3}$	0.78	0.71	3.12	2.84	∞
Liquid permittivity measurement	E.3.3	5	N	1	0.78	0.71	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	N	1	0.23	0.26	0.33	0.38	M
Combined Standard Uncertainty			RSS				5.562	5.203	
Expanded Uncertainty (95% Confidence interval)			K=2				11.124	10.406	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

12. CONDUCTED POWER MEASUREMENT

GSM BAND

Mode	Frequency(MHz)	Conducted output Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
GSM 850	824.2	**33.39**	-9	24.39
	836.6	33.05	-9	24.05
	848.8	33.11	-9	24.11
GPRS 850 （1 Slot）	824.2	33.38	-9	24.38
	836.6	33.05	-9	24.05
	848.8	33.11	-9	24.11
GPRS 850 （2 Slot）	824.2	32.75	-6	26.75
	836.6	32.41	-6	26.41
	848.8	32.40	-6	26.40
GPRS 850 （3 Slot）	824.2	31.16	-4.26	26.90
	836.6	30.78	-4.26	26.52
	848.8	30.65	-4.26	26.39
GPRS 850 （4 Slot）	824.2	30.14	-3	**27.14**
	836.6	29.76	-3	26.76
	848.8	29.61	-3	26.61
EGPRS 850 （1 Slot）	824.2	27.74	-9	18.74
	836.6	27.55	-9	18.55
	848.8	27.19	-9	18.19
EGPRS 850 （2 Slot）	824.2	26.91	-6	20.91
	836.6	26.39	-6	20.39
	848.8	26.49	-6	20.49
EGPRS 850 （3 Slot）	824.2	24.81	-4.26	20.55
	836.6	24.36	-4.26	20.10
	848.8	24.57	-4.26	20.31
EGPRS 850 （4 Slot）	824.2	23.63	-3	20.63
	836.6	23.06	-3	20.06
	848.8	23.37	-3	20.37

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

GSM BAND CONTINUE

Mode	Frequency(MHz)	Conducted output Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
PCS1900	1850.2	**29.38**	-9	20.38
	1880	29.34	-9	20.34
	1909.8	29.22	-9	20.22
GPRS1900 （1 Slot）	1850.2	29.38	-9	20.38
	1880	29.35	-9	20.35
	1909.8	29.24	-9	20.24
GPRS1900 （2 Slot）	1850.2	28.03	-6	**22.03**
	1880	27.95	-6	21.95
	1909.8	27.83	-6	21.83
GPRS1900 （3 Slot）	1850.2	25.76	-4.26	21.50
	1880	25.61	-4.26	21.35
	1909.8	25.48	-4.26	21.22
GPRS1900 （4 Slot）	1850.2	24.98	-3	21.98
	1880	24.83	-3	21.83
	1909.8	24.69	-3	21.69
EGPRS1900 （1 Slot）	1850.2	28.95	-9	19.95
	1880	28.89	-9	19.89
	1909.8	29.02	-9	20.02
EGPRS1900 （2 Slot）	1850.2	28.27	-6	22.27
	1880	28.04	-6	22.04
	1909.8	27.59	-6	21.59
EGPRS1900 （3 Slot）	1850.2	26.65	-4.26	22.39
	1880	26.21	-4.26	21.95
	1909.8	25.88	-4.26	21.62
EGPRS1900 （4 Slot）	1850.2	25.83	-3	22.83
	1880	25.34	-3	22.34
	1909.8	25.33	-3	22.33

Note 1:
The Frame Power (Source-based time-averaged Power) is scaled the maximum burst average power based on time slots. The calculated methods are show as following:
Frame Power = Max burst power (1 Up Slot) – 9 dB
Frame Power = Max burst power (2 Up Slot) – 6 dB
Frame Power = Max burst power (3 Up Slot) – 4.26 dB
Frame Power = Max burst power (4 Up Slot) – 3 dB

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

UMTS BAND
HSDPA Setup Configuration:

·The EUT was connected to Base Station Agilent-8960 referred to the Setup Configuration.

·The RF path losses were compensated into the measurements.

·A call was established between EUT and Based Station with following setting:

(1) Set Gain Factors(βc and βd) parameters set according to each

(2) Set RMC 12.2Kbps+HSDPA mode.

(3) Set Cell Power=-86dBm

(4) Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)

(5) Select HSDPA Uplink Parameters

(6) Set Delta ACK, Delta NACK and Delta CQI=8

(7) Set Ack - Nack Repetition Factor to 3

(8) Set CQI Feedback Cycle (k) to 4ms

(9) Set CQI Repetition Factor to 2

(10) Power Ctrl Mode=All Up bits

·The transmitted maximum output power was recorded.

Table C.10.2.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	βc (Note5)	βd	βd (SF)	βc/βd	βHS (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15(Note 4)	15/15(Note 4)	64	12/15(Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: ΔACK, ΔNACK and ΔCQI = 30/15 with β_{hs} = 30/15 * β_c .
Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, ΔACK and ΔNACK = 30/15 with β_{hs} = 30/15 * β_c , and ΔCQI = 24/15 with β_{hs} = 24/15 * β_c .
Note 3: CM = 1 for β c/ β d =12/15, hs/ c=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.
Note 4: For subtest 2 the c/ d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to c = 11/15 and d = 15/15.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

HSUPA Setup Configuration:

· The EUT was connected to Base Station Agilent-8960 referred to the Setup Configuration.

· The RF path losses were compensated into the measurements.

· A call was established between EUT and Base Station with following setting * :

(1) Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK

(2) Set the Gain Factors (βc and βd) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121

(3) Set Cell Power = -86 dBm

(4) Set Channel Type = 12.2k + HSPA

(5) Set UE Target Power

(6) Power Ctrl Mode= Alternating bits

(7) Set and observe the E-TFCI

(8) Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI

· The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	βc	βd	βd (SF)	βc/βd	βHS (Note 1)	βec	βed (Note 4) (Note 5)	βed (SF)	βed (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	βed1: 47/15 βed2: 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, ΔACK, ΔNACK and ΔCQI = 30/15 with β_{hs} = 30/15 * β_c . For sub-test 5, ΔACK, ΔNACK and ΔCQI = 5/15 with β_{hs} = 5/15 * β_c .
Note 2: CM = 1 for β c/ β d =12/15, hs/ c=24/15. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.
Note 3: For subtest 1 the c/ d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to c = 10/15 and d = 15/15.
Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.
Note 5: βed cannot be set directly; it is set by Absolute Grant Value.
Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

UMTS BAND V

Mode	Frequency (MHz)	Conducted output power (dBm)
WCDMA 850 RMC	826.4	22.94
	836.4	23.17
	846.6	**23.25**
HSDPA Subtest 1	826.4	21.96
	836.4	21.52
	846.6	20.30
HSDPA Subtest 2	826.4	20.06
	836.4	22.18
	846.6	21.89
HSDPA Subtest 3	826.4	20.69
	836.4	20.97
	846.6	22.27
HSDPA Subtest 4	826.4	21.96
	836.4	20.52
	846.6	20.79
HSUPA Subtest 1	826.4	20.30
	836.4	21.81
	846.6	20.05
HSUPA Subtest 2	826.4	21.95
	836.4	20.45
	846.6	22.00
HSUPA Subtest 3	826.4	22.02
	836.4	20.86
	846.6	22.18
HSUPA Subtest 4	826.4	21.61
	836.4	22.12
	846.6	22.24
HSUPA Subtest 5	826.4	20.87
	836.4	22.28
	846.6	21.30

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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

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

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	0≤ CM≤3.5	MAX(CM-1,0)
Note: CM=1 for β_c/β_d=12/15, β_{hs}/β_c=24/15.For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

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

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

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

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

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

LTE Band

LTE (TDD) Considerations

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band 38, 40, 41 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 4.2-2: Uplink-downlink configurations

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Calculated Duty Cycle

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle(%)
		0	1	2	3	4	5	6	7	8	9	
0	5ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5ms	D	S	U	U	U	D	S	U	U	D	53.33

Note: Calculated Duty Cycle = Extended cyclic prefix in uplink x (Ts) x # of S + # of U
Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:
Calculated Duty Cycle = 5120 x [1/(15000 x 2048)] x 2 + 6 ms = 63.33%
where
Ts = 1/(15000 x 2048) seconds

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

LTE Band

Conducted output power of LTE Band 2(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 18607**	**Channel 18900**	**Channel 19193**
1.4MHz	QPSK	1	0	0	22.97	23.12	22.98
			3	0	23.17	23.26	23.14
			5	0	22.99	23.10	22.99
		3	0	0	22.94	23.19	22.97
			2	0	23.00	23.19	22.96
			3	0	22.97	23.15	22.94
		6	0	1	22.02	22.15	22.01
	16QAM	1	0	1	22.02	22.30	21.75
			3	1	22.17	22.43	21.90
			5	1	22.01	22.25	21.73
		3	0	1	22.11	22.40	22.05
			2	1	22.07	22.41	22.06
			3	1	22.10	22.38	22.06
		6	0	2	21.14	21.30	21.13
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 18615**	**Channel 18900**	**Channel 19185**
3MHz	QPSK	1	0	0	22.87	23.13	22.98
			7	0	23.22	23.34	23.11
			14	0	22.88	23.07	23.03
		8	0	1	21.95	22.09	21.94
			4	1	21.96	22.13	21.99
			7	1	21.97	22.11	21.95
		15	0	1	21.90	22.10	21.91
	16QAM	1	0	1	22.30	22.33	21.85
			7	1	22.54	22.64	21.92
			14	1	22.29	22.28	21.75
		8	0	2	20.95	21.11	20.89
			4	2	20.95	21.15	20.92
			7	2	20.91	21.13	20.95
		15	0	2	20.95	21.06	20.97

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18625	Channel 18900	Channel 19175
5MHz	QPSK	1	0	0	22.86	22.95	22.82
			13	0	23.25	23.41	23.23
			24	0	22.88	23.06	22.89
		12	0	1	21.94	22.07	21.90
			6	1	21.97	22.17	22.04
			13	1	21.86	22.16	22.01
		25	0	1	21.95	22.14	21.96
	16QAM	1	0	1	22.17	22.34	22.37
			13	1	22.40	22.75	22.75
			24	1	22.14	22.28	22.29
		12	0	2	20.93	21.11	20.85
			6	2	20.92	21.21	20.99
			13	2	20.83	21.14	20.97
		25	0	2	20.95	21.10	20.94
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18650	Channel 18900	Channel 19150
10MHz	QPSK	1	0	0	22.97	23.07	22.91
			25	0	23.12	23.22	23.10
			49	0	22.99	23.06	22.95
		25	0	1	22.01	22.07	22.03
			13	1	21.95	22.13	22.00
			25	1	21.96	22.19	22.21
		50	0	1	21.93	22.15	22.11
	16QAM	1	0	1	21.75	22.49	22.12
			25	1	21.89	22.66	22.30
			49	1	21.85	22.52	22.09
		25	0	2	21.01	21.13	21.02
			13	2	20.96	21.19	21.04
			25	2	20.77	21.24	21.20
		50	0	2	20.93	21.16	21.14

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18675	Channel 18900	Channel 19125
15MHz	QPSK	1	0	0	22.81	23.06	22.98
			38	0	23.20	**23.48**	23.22
			74	0	22.87	23.20	22.97
		36	0	1	22.09	22.12	22.18
			18	1	22.07	22.24	22.12
			39	1	22.00	22.27	22.21
		75	0	1	21.98	22.20	22.24
	16QAM	1	0	1	22.19	22.18	21.97
			38	1	22.54	22.54	22.29
			74	1	22.30	22.16	21.99
		36	0	2	21.07	21.14	21.06
			18	2	21.06	21.27	21.02
			39	2	20.98	21.30	21.11
		75	0	2	20.99	21.12	21.22
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18700	Channel 18900	Channel 19100
20MHz	QPSK	1	0	0	22.70	22.80	22.89
			50	0	23.12	23.26	23.19
			99	0	22.83	22.81	22.85
		50	0	1	22.10	22.01	22.30
			25	1	22.01	22.14	22.08
			50	1	22.01	22.20	22.29
		100	0	1	22.06	22.14	22.28
	16QAM	1	0	1	21.90	22.11	22.03
			50	1	22.34	22.57	22.36
			99	1	22.09	22.14	21.94
		50	0	2	21.12	21.05	21.30
			25	2	21.04	21.20	21.05
			50	2	21.06	21.23	21.22
		100	0	2	21.14	21.15	21.28

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 19957	Channel 20175	Channel 20393
1.4MHz	QPSK	1	0	0	23.49	22.76	22.93
			3	0	23.56	22.91	23.10
			5	0	23.22	22.75	22.96
		3	0	0	22.92	22.88	22.99
			2	0	23.00	22.84	23.00
			3	0	23.03	22.85	22.99
		6	0	1	21.97	21.80	22.02
	16QAM	1	0	1	22.07	21.95	21.75
			3	1	22.16	22.03	21.91
			5	1	22.04	21.95	21.75
		3	0	1	22.09	22.12	22.11
			2	1	22.13	22.09	22.15
			3	1	22.13	22.06	22.13
		6	0	2	21.13	21.42	21.17
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 19965	Channel 20175	Channel 20385
3MHz	QPSK	1	0	0	23.41	22.89	22.99
			7	0	23.70	23.22	23.13
			14	0	23.47	22.94	22.98
		8	0	1	22.47	21.87	22.06
			4	1	22.51	21.91	22.29
			7	1	22.50	21.86	22.14
		15	0	1	22.43	21.83	22.12
	16QAM	1	0	1	22.34	21.73	22.40
			7	1	22.61	21.99	22.65
			14	1	22.21	21.67	22.41
		8	0	2	21.32	20.84	21.24
			4	2	21.45	20.86	21.29
			7	2	21.49	20.83	21.20
		15	0	2	21.34	20.86	21.21

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 4(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 19975**	**Channel 20175**	**Channel 20375**
5MHz	QPSK	1	0	0	23.05	22.75	22.92
			13	0	**23.74**	23.12	23.31
			24	0	23.32	22.84	22.91
		12	0	1	22.46	22.11	21.95
			6	1	22.39	22.13	22.18
			13	1	22.47	22.11	22.07
		25	0	1	22.39	22.16	22.31
	16QAM	1	0	1	22.34	22.36	22.30
			13	1	22.63	22.62	22.74
			24	1	22.17	22.27	22.24
		12	0	2	21.20	21.20	20.98
			6	2	21.50	21.24	21.18
			13	2	21.30	21.11	21.02
		25	0	2	21.13	21.24	21.24
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 20000**	**Channel 20175**	**Channel 20350**
10MHz	QPSK	1	0	0	23.05	22.95	22.87
			25	0	23.07	23.07	23.08
			49	0	22.99	22.91	22.95
		25	0	1	21.97	21.88	22.00
			13	1	21.97	21.88	21.99
			25	1	22.00	21.83	21.99
		50	0	1	21.94	21.87	22.06
	16QAM	1	0	1	22.09	21.68	22.32
			25	1	22.22	21.81	22.46
			49	1	22.12	21.70	22.37
		25	0	2	20.95	20.90	21.02
			13	2	21.00	20.86	21.00
			25	2	20.98	20.85	21.08
		50	0	2	20.97	20.86	21.02

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20025	Channel 20175	Channel 20325
15MHz	QPSK	1	0	0	22.88	22.93	22.73
			38	0	23.19	23.19	23.21
			74	0	22.85	22.82	22.90
		36	0	1	22.01	22.02	22.02
			18	1	22.08	21.96	22.07
			39	1	22.04	21.90	22.10
		75	0	1	22.02	21.97	22.07
	16QAM	1	0	1	21.97	21.91	22.16
			38	1	22.40	22.30	22.53
			74	1	22.03	21.83	22.28
		36	0	2	20.99	20.85	21.00
			18	2	21.11	20.88	21.07
			39	2	21.08	20.79	21.07
		75	0	2	20.98	20.94	21.00
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20050	Channel 20175	Channel 20300
20MHz	QPSK	1	0	0	22.75	22.67	22.57
			50	0	23.20	22.99	23.08
			99	0	22.77	22.65	22.76
		50	0	1	21.89	21.98	21.98
			25	1	22.01	21.87	22.04
			50	1	21.97	21.83	22.07
		100	0	1	21.93	21.88	22.00
	16QAM	1	0	1	21.84	21.87	21.85
			50	1	22.29	22.18	22.35
			99	1	21.93	21.89	22.14
		50	0	2	20.90	20.98	21.02
			25	2	20.93	20.95	21.09
			50	2	20.94	20.90	21.18
		100	0	2	20.95	20.91	21.02

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20407	Channel 20525	Channel 20643
1.4MHz	QPSK	1	0	0	23.59	23.76	23.88
			3	0	23.82	23.90	24.02
			5	0	23.66	23.73	23.88
		3	0	0	23.56	23.85	23.87
			2	0	23.61	23.86	23.90
			3	0	23.61	23.83	23.87
		6	0	1	22.60	22.83	22.89
	16QAM	1	0	1	22.67	22.95	22.67
			3	1	22.79	23.08	22.87
			5	1	22.71	22.96	22.63
		3	0	1	22.72	23.01	23.00
			2	1	22.75	23.05	22.99
			3	1	22.71	23.07	23.02
		6	0	2	21.75	21.95	22.04
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20415	Channel 20525	Channel 20635
3MHz	QPSK	1	0	0	23.50	23.79	23.89
			7	0	24.03	24.18	24.11
			14	0	23.63	23.90	23.81
		8	0	1	22.53	22.77	22.89
			4	1	22.56	22.80	22.93
			7	1	22.60	22.78	22.87
		15	0	1	22.49	22.76	22.86
	16QAM	1	0	1	22.70	22.64	23.38
			7	1	23.07	22.97	23.62
			14	1	22.84	22.62	23.20
		8	0	2	21.55	21.74	21.91
			4	2	21.56	21.82	21.92
			7	2	21.58	21.77	21.88
		15	0	2	21.46	21.79	21.87

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20425	Channel 20525	Channel 20625
5MHz	QPSK	1	0	0	23.35	23.63	23.79
			13	0	24.00	24.06	**24.21**
			24	0	23.54	23.70	23.78
		12	0	1	22.51	22.77	22.88
			6	1	22.59	22.79	22.98
			13	1	22.65	22.82	22.83
		25	0	1	22.58	22.81	22.91
	16QAM	1	0	1	22.72	23.19	23.14
			13	1	23.28	23.60	23.61
			24	1	22.86	23.24	23.08
		12	0	2	21.51	21.66	21.82
			6	2	21.63	21.77	21.91
			13	2	21.66	21.73	21.75
		25	0	2	21.54	21.76	21.90
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20450	Channel 20525	Channel 20600
10MHz	QPSK	1	0	0	23.48	23.72	23.91
			25	0	23.71	23.90	24.04
			49	0	23.77	23.95	23.93
		25	0	1	22.57	22.72	22.93
			13	1	22.65	22.81	22.89
			25	1	22.78	22.94	22.95
		50	0	1	22.70	22.82	22.92
	16QAM	1	0	1	22.84	22.83	22.71
			25	1	23.14	23.05	22.90
			49	1	23.18	23.09	22.74
		25	0	2	21.60	21.70	21.94
			13	2	21.66	21.76	21.88
			25	2	21.78	21.90	21.97
		50	0	2	21.69	21.83	21.89

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 7 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20775	Channel 21100	Channel 21425
5MHz	QPSK	1	0	0	22.76	22.59	22.55
			12	0	**23.19**	22.96	22.88
			24	0	22.78	22.63	22.53
		12	0	1	21.78	21.76	21.59
			6	1	21.81	21.75	21.66
			13	1	21.78	21.73	21.61
		25	0	1	21.79	21.73	21.60
	16QAM	1	0	1	21.93	21.89	21.98
			12	1	22.18	22.34	22.35
			24	1	21.93	21.91	21.97
		12	0	2	20.65	20.69	20.59
			6	2	20.73	20.75	20.62
			13	2	20.65	20.75	20.56
		25	0	2	20.73	20.67	20.52
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20800	Channel 21100	Channel 21400
10MHz	QPSK	1	0	0	22.89	22.69	22.66
			24	0	23.04	22.87	22.70
			49	0	22.88	22.77	22.61
		25	0	1	21.80	21.77	21.66
			12	1	21.79	21.73	21.62
			25	1	21.87	21.83	21.66
		50	0	1	21.80	21.74	21.66
	16QAM	1	0	1	21.57	22.05	21.77
			24	1	21.71	22.16	21.87
			49	1	21.59	22.07	21.73
		25	0	2	20.74	20.74	20.66
			12	2	20.73	20.75	20.63
			25	2	20.81	20.82	20.63
		50	0	2	20.72	20.73	20.68

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 7 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20825	Channel 21100	Channel 21375
15MHz	QPSK	1	0	0	22.67	22.69	22.62
			37	0	23.03	23.10	22.92
			74	0	22.67	22.80	22.52
		37	0	1	21.89	21.80	21.79
			16	1	21.91	21.87	21.74
			35	1	21.96	21.89	21.72
		75	0	1	21.92	21.89	21.76
	16QAM	1	0	1	21.78	21.74	21.94
			37	1	22.15	22.04	22.18
			74	1	21.74	21.73	21.81
		37	0	2	20.84	20.74	20.76
			16	2	20.85	20.79	20.75
			35	2	20.88	20.79	20.70
		75	0	2	20.82	20.82	20.72
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20850	Channel 21100	Channel 21350
20MHz	QPSK	1	0	0	22.59	22.47	22.47
			49	0	22.99	22.91	22.81
			99	0	22.57	22.54	22.40
		50	0	1	21.67	21.65	21.67
			25	1	21.75	21.75	21.68
			49	1	21.78	21.78	21.61
		100	0	1	21.73	21.75	21.66
	16QAM	1	0	1	21.69	21.69	21.67
			49	1	21.97	22.07	22.04
			99	1	21.70	21.71	21.63
		50	0	2	20.63	20.72	20.74
			25	2	20.70	20.75	20.73
			49	2	20.74	20.81	20.70
		100	0	2	20.66	20.71	20.63

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23017	Channel 23095	Channel 23173
1.4MHz	QPSK	1	0	0	23.82	23.83	23.75
			3	0	24.00	23.93	23.94
			5	0	23.86	23.73	23.80
		3	0	0	23.78	23.88	23.83
			2	0	23.79	23.85	23.81
			3	0	23.83	23.85	23.84
		6	0	1	22.80	22.84	22.79
	16QAM	1	0	1	22.88	22.98	22.67
			3	1	23.03	23.11	22.79
			5	1	22.96	22.99	22.65
		3	0	1	22.95	23.06	22.94
			2	1	23.02	23.08	22.95
			3	1	22.99	23.09	22.97
		6	0	2	21.97	22.02	21.99
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23025	Channel 23095	Channel 23165
3MHz	QPSK	1	0	0	23.81	23.84	23.84
			7	0	**24.32**	24.10	24.13
			14	0	23.92	23.78	23.86
		8	0	1	22.77	22.78	22.81
			4	1	22.83	22.80	22.80
			7	1	22.75	22.83	22.83
		15	0	1	22.75	22.77	22.79
	16QAM	1	0	1	22.69	23.22	23.02
			7	1	22.99	23.59	23.40
			14	1	22.72	23.24	23.00
		8	0	2	21.76	21.83	21.86
			4	2	21.80	21.86	21.89
			7	2	21.79	21.88	21.90
		15	0	2	21.87	21.84	21.80

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23035	Channel 23095	Channel 23155
5MHz	QPSK	1	0	0	23.69	23.66	23.70
			13	0	23.91	24.12	24.20
			24	0	23.73	23.77	23.75
		12	0	1	22.76	22.77	22.91
			6	1	22.86	22.85	22.88
			13	1	22.77	22.84	22.83
		25	0	1	22.79	22.80	22.90
	16QAM	1	0	1	22.98	23.22	23.00
			13	1	23.56	23.66	23.48
			24	1	23.06	23.32	23.06
		12	0	2	21.79	21.75	21.83
			6	2	21.89	21.86	21.86
			13	2	21.83	21.87	21.80
		25	0	2	21.75	21.78	21.96
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23060	Channel 23095	Channel 23130
10MHz	QPSK	1	0	0	23.72	23.77	23.81
			25	0	23.92	23.96	23.97
			49	0	23.85	23.84	23.90
		25	0	1	22.83	22.80	22.85
			13	1	22.79	22.85	22.87
			25	1	22.93	22.86	22.82
		50	0	1	22.89	22.83	22.82
	16QAM	1	0	1	23.16	22.90	22.63
			25	1	23.35	23.14	22.83
			49	1	23.25	23.01	22.77
		25	0	2	21.82	21.81	21.86
			13	2	21.87	21.87	21.88
			25	2	21.97	21.85	21.83
		50	0	2	21.94	21.88	21.80

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 13(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23205	Channel 23230	Channel 23255
5MHz	QPSK	1	0	0	23.40	23.39	23.44
			13	0	23.75	**23.89**	23.80
			24	0	23.47	23.49	23.53
		12	0	1	22.51	22.52	22.62
			6	1	22.57	22.55	22.64
			13	1	22.53	22.53	22.57
		25	0	1	22.52	22.57	22.56
	16QAM	1	0	1	22.97	22.74	22.77
			13	1	23.42	23.23	23.11
			24	1	23.01	22.86	22.91
		12	0	2	21.48	21.53	21.61
			6	2	21.56	21.51	21.63
			13	2	21.49	21.50	21.59
		25	0	2	21.52	21.62	21.57
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23230		
10MHz	QPSK	1	0	0	23.53		
			25	0	23.69		
			49	0	23.68		
		25	0	1	22.55		
			13	1	22.57		
			25	1	22.56		
		50	0	1	22.55		
	16QAM	1	0	1	22.68		
			25	1	22.83		
			49	1	22.88		
		25	0	2	21.53		
			13	2	21.56		
			25	2	21.56		
		50	0	2	21.57		

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 17(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23755	Channel 23790	Channel 23825
5MHz	QPSK	1	0	0	23.71	23.74	23.74
			13	0	24.00	**24.22**	24.16
			24	0	23.75	23.74	23.78
		12	0	1	22.82	22.85	22.93
			6	1	22.90	22.90	22.92
			13	1	22.89	22.84	22.89
		25	0	1	22.90	22.84	22.95
	16QAM	1	0	1	23.07	23.05	23.32
			13	1	23.50	23.50	23.90
			24	1	23.11	23.12	23.35
		12	0	2	21.80	21.89	21.92
			6	2	21.88	21.93	21.95
			13	2	21.81	21.84	21.89
		25	0	2	21.92	21.86	21.92
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23780	Channel 23790	Channel 23800
10MHz	QPSK	1	0	0	23.84	23.85	23.86
			25	0	23.97	24.01	23.92
			49	0	23.91	23.94	23.92
		25	0	1	22.88	22.80	22.90
			13	1	22.89	22.85	22.92
			25	1	22.86	22.82	22.83
		50	0	1	22.84	22.79	22.88
	16QAM	1	0	1	22.97	22.74	23.27
			25	1	23.11	22.89	23.39
			49	1	23.12	22.77	23.31
		25	0	2	21.84	21.85	21.90
			13	2	21.88	21.89	21.90
			25	2	21.87	21.82	21.91
		50	0	2	21.86	21.83	21.88

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 38 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 37775	Channel 38000	Channel 38225
5MHz	QPSK	1	0	0	23.13	22.99	22.85
			12	0	**23.39**	23.28	23.11
			24	0	23.15	22.99	22.84
		12	0	1	22.21	22.05	22.02
			6	1	22.25	22.09	22.04
			13	1	22.24	21.99	21.97
		25	0	1	22.25	22.02	21.96
	16QAM	1	0	1	22.78	22.27	22.20
			12	1	23.02	22.49	22.49
			24	1	22.77	22.23	22.19
		12	0	2	21.20	21.03	21.04
			6	2	21.28	21.06	21.06
			13	2	21.20	20.95	20.98
		25	0	2	21.21	21.06	20.97
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 37800	Channel 38000	Channel 38200
10MHz	QPSK	1	0	0	23.19	23.11	23.04
			24	0	23.33	23.20	23.19
			49	0	23.15	23.02	23.02
		25	0	1	22.29	22.14	22.11
			12	1	22.24	22.11	22.02
			25	1	22.23	22.09	22.03
		50	0	1	22.23	22.09	22.01
	16QAM	1	0	1	22.71	22.23	21.95
			24	1	22.84	22.33	22.13
			49	1	22.70	22.21	21.92
		25	0	2	21.34	21.15	21.09
			12	2	21.27	21.13	21.05
			25	2	21.30	21.09	21.05
		50	0	2	21.25	21.15	21.05

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 38 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 37825	Channel 38000	Channel 38175
15MHz	QPSK	1	0	0	23.08	23.04	22.97
			38	0	23.35	23.31	23.30
			74	0	23.05	22.94	22.97
		37	0	1	22.24	22.17	22.08
			18	1	22.26	22.15	22.08
			37	1	22.20	22.11	22.02
		75	0	1	22.25	22.15	22.06
	16QAM	1	0	1	22.64	22.18	22.22
			38	1	22.88	22.43	22.43
			74	1	22.53	22.10	22.13
		37	0	2	21.23	21.22	21.01
			18	2	21.24	21.20	21.03
			37	2	21.24	21.15	20.99
		75	0	2	21.20	21.10	21.09
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 37850	Channel 38000	Channel 38150
20MHz	QPSK	1	0	0	22.98	22.91	22.78
			49	0	23.35	23.28	23.18
			99	0	22.88	22.82	22.72
		50	0	1	22.17	22.12	22.04
			25	1	22.20	22.12	22.03
			49	1	22.16	22.03	21.95
		100	0	1	22.20	22.08	22.00
	16QAM	1	0	1	22.22	22.11	21.97
			49	1	22.62	22.44	22.34
			99	1	22.18	22.01	21.93
		50	0	2	21.24	21.12	21.08
			25	2	21.27	21.12	21.12
			49	2	21.23	21.04	21.01
		100	0	2	21.21	21.08	21.04

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 40(dBm) -Lower Side						
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Channel 38725**	**Channel 38750**	**Channel 38775**
5MHz	QPSK	1	0	12.28	12.27	12.23
			12	**12.56**	12.52	12.49
			24	12.23	12.30	12.22
		12	0	11.30	11.27	11.24
			6	11.36	11.33	11.35
			13	11.31	11.28	11.29
		25	0	11.36	11.33	11.29
	16QAM	1	0	11.96	11.60	11.62
			12	12.24	11.82	11.88
			24	11.94	11.60	11.61
		12	0	10.32	10.23	10.28
			6	10.35	10.29	10.37
			13	10.30	10.24	10.30
		25	0	10.31	10.32	10.25
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Channel 38750**		
10MHz	QPSK	1	0	12.38		
			24	12.49		
			49	12.32		
		25	0	11.34		
			12	11.34		
			25	11.32		
		50	0	11.39		
	16QAM	1	0	11.50		
			24	11.68		
			49	11.43		
		25	0	10.36		
			12	10.32		
			25	10.37		
		50	0	10.40		

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 40(dBm) -Upper Side						
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Channel 39175**	**Channel 39200**	**Channel 39225**
5MHz	QPSK	1	0	12.24	12.26	12.24
			12	12.51	12.50	12.50
			24	12.24	12.24	12.21
		12	0	11.29	11.29	11.29
			6	11.33	11.31	11.35
			13	11.24	11.24	11.26
		25	0	11.29	11.28	11.28
	16QAM	1	0	11.92	11.59	11.61
			12	12.17	11.85	11.91
			24	11.95	11.57	11.61
		12	0	10.27	10.23	10.31
			6	10.35	10.26	10.35
			13	10.22	10.15	10.26
		25	0	10.28	10.29	10.30

Bandwidth	**Modulation**	**RB size**	**RB offset**	**Channel 39200**
10MHz	QPSK	1	0	12.42
			24	**12.53**
			49	12.35
		25	0	11.40
			12	11.34
			25	11.30
		50	0	11.36
	16QAM	1	0	11.49
			24	11.66
			49	11.51
		25	0	10.39
			12	10.34
			25	10.29
		50	0	10.41

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 41(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 40065	Channel 40640	Channel 41215
5MHz	QPSK	1	0	0	23.26	23.02	23.13
			12	0	23.55	23.31	23.42
			24	0	23.28	23.03	23.15
		12	0	1	22.34	22.06	22.26
			6	1	22.42	22.11	22.33
			13	1	22.35	22.05	22.28
		25	0	1	22.35	22.10	22.26
	16QAM	1	0	1	22.88	22.22	22.50
			12	1	23.14	22.46	22.79
			24	1	22.89	22.17	22.51
		12	0	2	21.37	20.98	21.33
			6	2	21.44	21.05	21.37
			13	2	21.38	20.95	21.29
		25	0	2	21.35	21.10	21.29
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 40090	Channel 40640	Channel 41190
10MHz	QPSK	1	0	0	23.32	23.16	23.20
			24	0	23.46	23.23	23.45
			49	0	23.32	23.09	23.32
		25	0	1	22.42	22.10	22.31
			12	1	22.41	22.11	22.30
			25	1	22.41	22.13	22.36
		50	0	1	22.43	22.13	22.33
	16QAM	1	0	1	22.82	22.24	22.14
			24	1	22.98	22.34	22.40
			49	1	22.86	22.21	22.26
		25	0	2	21.46	21.19	21.35
			12	2	21.44	21.13	21.33
			25	2	21.46	21.08	21.35
		50	0	2	21.45	21.18	21.34

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 41(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 40115**	**Channel 40640**	**Channel 41165**
15MHz	QPSK	1	0	0	23.21	23.05	23.12
			37	0	**23.56**	23.36	23.55
			74	0	23.24	23.00	23.24
		37	0	1	22.41	22.19	22.24
			19	1	22.46	22.19	22.35
			38	1	22.43	22.18	22.35
		75	0	1	22.45	22.18	22.29
	16QAM	1	0	1	22.73	22.17	22.25
			37	1	23.07	22.42	22.69
			74	1	22.77	22.11	22.44
		37	0	2	21.44	21.27	21.20
			19	2	21.46	21.22	21.29
			38	2	21.45	21.18	21.29
		75	0	2	21.44	21.12	21.33
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 40140**	**Channel 40640**	**Channel 41140**
20MHz	QPSK	1	0	0	23.09	22.96	22.84
			49	0	23.51	23.32	23.43
			99	0	23.06	22.88	23.07
		50	0	1	22.35	22.11	22.15
			25	1	22.42	22.15	22.27
			50	1	22.40	22.06	22.31
		100	0	1	22.36	22.05	22.22
	16QAM	1	0	1	22.34	22.06	22.03
			49	1	22.80	22.43	22.60
			99	1	22.37	22.00	22.25
		50	0	2	21.44	21.12	21.24
			25	2	21.47	21.10	21.31
			50	2	21.48	21.04	21.37
		100	0	2	21.41	21.06	21.22

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 66(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 131979	Channel 132422	Channel 132665
1.4MHz	QPSK	1	0	0	23.33	23.33	23.21
			2	0	23.54	23.47	23.41
			5	0	23.38	23.31	23.28
		3	0	0	23.33	23.47	23.28
			1	0	23.35	23.42	23.30
			3	0	23.40	23.46	23.25
		6	0	1	22.35	22.41	22.28
	16QAM	1	0	1	22.44	22.52	22.06
			2	1	22.55	22.62	22.24
			5	1	22.44	22.55	22.07
		3	0	1	22.52	22.64	22.38
			1	1	22.53	22.66	22.41
			3	1	22.46	22.66	22.44
		6	0	2	21.49	21.55	21.41
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 131987	Channel 132422	Channel 132657
3MHz	QPSK	1	0	0	23.31	23.42	23.14
			8	0	23.63	**23.72**	23.46
			14	0	23.35	23.48	23.23
		8	0	1	22.30	22.41	22.25
			4	1	22.36	22.44	22.32
			7	1	22.40	22.41	22.29
		15	0	1	22.30	22.38	22.25
	16QAM	1	0	1	22.43	22.23	22.62
			8	1	22.82	22.54	22.90
			14	1	22.50	22.25	22.60
		8	0	2	21.32	21.39	21.29
			4	2	21.39	21.43	21.31
			7	2	21.37	21.40	21.30
		15	0	2	21.29	21.46	21.27

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 66(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 131997	Channel 132422	Channel 132647
5MHz	QPSK	1	0	0	23.22	23.20	23.06
			12	0	23.63	23.65	23.54
			24	0	23.30	23.24	23.17
		12	0	1	22.28	22.35	22.24
			6	1	22.41	22.44	22.29
			13	1	22.34	22.41	22.21
		25	0	1	22.35	22.40	22.20
	16QAM	1	0	1	22.48	22.57	22.54
			12	1	22.91	22.77	23.00
			24	1	22.59	22.62	22.72
		12	0	2	21.17	21.43	21.22
			6	2	21.35	21.45	21.28
			13	2	21.32	21.44	21.23
		25	0	2	21.38	21.35	21.23
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 132022	Channel 132422	Channel 132622
10MHz	QPSK	1	0	0	23.26	23.36	23.22
			24	0	23.47	23.46	23.36
			49	0	23.39	23.46	23.31
		25	0	1	22.34	22.43	22.21
			12	1	22.43	22.44	22.17
			25	1	22.41	22.48	22.26
		50	0	1	22.36	22.43	22.25
	16QAM	1	0	1	22.69	22.50	21.99
			24	1	22.87	22.68	22.15
			49	1	22.75	22.58	22.15
		25	0	2	21.37	21.41	21.22
			12	2	21.43	21.43	21.23
			25	2	21.44	21.45	21.31
		50	0	2	21.41	21.46	21.23

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 66(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 132047	Channel 132422	Channel 132597
15MHz	QPSK	1	0	0	23.29	23.23	23.14
			38	0	23.69	23.59	23.37
			74	0	23.45	23.37	23.18
		38	0	1	22.45	22.53	22.31
			18	1	22.54	22.59	22.34
			37	1	22.53	22.58	22.31
		75	0	1	22.50	22.54	22.28
	16QAM	1	0	1	22.37	22.63	22.33
			38	1	22.87	23.02	22.67
			74	1	22.41	22.77	22.36
		38	0	2	21.37	21.47	21.35
			18	2	21.42	21.55	21.35
			37	2	21.41	21.53	21.31
		75	0	2	21.49	21.47	21.26
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 132072	Channel 132422	Channel 132572
20MHz	QPSK	1	0	0	23.11	23.07	22.99
			49	0	23.64	23.53	23.29
			99	0	23.19	23.21	23.04
		50	0	1	22.42	22.47	22.37
			25	1	22.41	22.49	22.29
			50	1	22.38	22.56	22.22
		100	0	1	22.36	22.48	22.25
	16QAM	1	0	1	22.30	22.28	22.36
			49	1	22.73	22.77	22.57
			99	1	22.31	22.45	22.35
		50	0	2	21.40	21.55	21.40
			25	2	21.43	21.56	21.34
			50	2	21.39	21.59	21.28
		100	0	2	21.39	21.52	21.24

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 71(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 133147	Channel 133297	Channel 133447
5MHz	QPSK	1	0	0	23.68	23.82	23.64
			12	0	24.11	24.20	24.07
			24	0	23.73	23.83	23.66
		12	0	1	22.80	22.88	22.73
			6	1	22.90	22.94	22.78
			13	1	22.82	22.91	22.75
		25	0	1	22.81	22.93	22.78
	16QAM	1	0	1	23.27	23.11	22.95
			12	1	23.63	23.58	23.25
			24	1	23.32	23.15	22.99
		12	0	2	21.75	21.86	21.78
			6	2	21.86	21.90	21.79
			13	2	21.81	21.87	21.76
		25	0	2	21.76	21.95	21.74
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 133172	Channel 133297	Channel 133422
10MHz	QPSK	1	0	0	23.85	23.78	23.75
			24	0	24.00	24.01	23.92
			49	0	23.99	23.88	23.78
		25	0	1	22.90	22.94	22.82
			12	1	22.87	22.89	22.80
			25	1	22.96	23.02	22.78
		50	0	1	22.88	22.96	22.79
	16QAM	1	0	1	22.66	23.25	22.92
			24	1	22.82	23.46	23.03
			49	1	22.79	23.31	22.97
		25	0	2	21.87	21.98	21.85
			12	2	21.86	21.94	21.80
			25	2	21.88	22.03	21.82
		50	0	2	21.83	21.96	21.84

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Conducted output power of LTE Band 71(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 133197	Channel 133297	Channel 133397
15MHz	QPSK	1	0	0	23.72	23.77	23.77
			38	0	24.06	**24.35**	24.01
			74	0	23.94	23.82	23.81
		38	0	1	22.96	22.94	22.83
			18	1	22.97	22.99	22.90
			37	1	23.02	23.08	22.87
		75	0	1	23.03	23.03	22.90
	16QAM	1	0	1	23.14	22.89	22.81
			38	1	23.50	23.31	23.16
			74	1	23.34	22.99	22.92
		38	0	2	21.93	21.98	21.82
			18	2	21.96	22.04	21.86
			37	2	22.05	22.14	21.91
		75	0	2	21.98	22.01	21.90
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 133222	Channel 133322	Channel 133372
20MHz	QPSK	1	0	0	23.52	23.64	23.59
			49	0	23.98	24.09	23.96
			99	0	23.72	23.80	23.60
		50	0	1	22.94	22.85	22.80
			25	1	22.91	22.95	22.87
			50	1	23.02	23.08	22.88
		100	0	1	22.94	22.94	22.82
	16QAM	1	0	1	22.83	22.82	22.80
			49	1	23.29	23.31	23.22
			99	1	23.07	22.93	22.86
		50	0	2	21.98	21.84	21.80
			25	2	21.99	21.94	21.97
			50	2	22.06	22.09	21.93
		100	0	2	21.96	21.97	21.84

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.
UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3.3-1 of the 3GPP TS36.101.

Table 6.2.3.3-1 Maximum Power Reduction (MPR) for Power class3

Modulation	Maximum Power Reduction (MPR) for Power[RB]						MPR(dB)
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
QPSK	＞5	＞4	＞8	＞12	＞16	＞18	≤1
16QAM	≤5	≤4	≤8	≤12	≤16	≤18	≤1
16QAM	＞5	＞4	＞8	＞12	＞16	＞18	≤2

The allowed A-MPR values specified below in Table 6.2.4.3-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of “NS_01”.3

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Table 6.2.4.3-1: Additional Maximum Power Reduction (A-MPR) / Spectrum Emission requirements

Network Signaling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.2-1	1.4,3,5,10,15,20	Table 5.4.2-1	N/A
NS_03	6.6.2.2.3.1	2,4,10, 23, 25,35,36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.3.2	41	5	>6	≤1
			10, 15, 20	Table 6.2.4.3-4	
NS_05	6.6.3.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.4.2-1	N/A
NS_07	6.6.2.2.3.3 6.6.3.3.3.2	13	10	Table 6.2.4.3-2	Table 6.2.4.3-2
NS_08	6.6.3.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4.3-3	Table 6.2.4.3-3
NS_11	6.6.2.2.1 6.6.3.3.13	231	1.4, 3, 5, 10,15,20	Table 6.2.4.3-5	Table 6.2.4.3-5
NS_12	6.6.3.3.5	26	1.4, 3, 5	Table 6.2.4.3-6	Table 6.2.4.3-6
NS_13	6.6.3.3.6	26	5	Table 6.2.4.3-7	Table 6.2.4.3-7
NS_14	6.6.3.3.7	26	10, 15	Table 6.2.4.3-8	Table 6.2.4.3-8
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4.3-9 Table 6.2.4.3-10	Table 6.2.4.3-9, Table 6.2.4.3-10
NS_16	6.6.3.3.9	27	3, 5, 10	Table 6.2.4.3-11, Table 6.2.4.3-12, Table 6.2.4.3-13	
NS_17	6.6.3.3.10 6.6.3.3.11	28 28	5, 10	Table 5.4.2-1	N/A
			5	≥ 2	≤ 1
NS_18			10, 15, 20	≥ 1	≤ 4
NS_19			10, 15, 20	Table 6.2.4.3-15	Table 6.2.4.3-15
NS_20			5, 10, 15, 20	Table 6.2.4.3-14	Table 6.2.4.3-14
…					
NS_20	-	-	-	-	-

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	**15.30**
		06	2437	14.77
		11	2462	14.69
802.11g	6	01	2412	14.01
		06	2437	13.29
		11	2462	12.99
802.11n(20)	6.5	01	2412	12.73
		06	2437	12.21
		11	2462	11.89
802.11n(40)	13.5	03	2422	12.30
		06	2437	12.36
		09	2452	12.17

Bluetooth_V5.0(BR/EDR)

Modulation	Channel	Frequency(MHz)	Peak Conducted Output Power (dBm)
GFSK	0	2402	3.12
	39	2441	**4.10**
	78	2480	3.34
π /4-DQPSK	0	2402	2.55
	39	2441	3.53
	78	2480	2.91
8-DPSK	0	2402	2.55
	39	2441	3.51
	78	2480	2.91

Bluetooth_V5.0(BLE)

Modulation	Channel	Frequency(MHz)	Peak Conducted Output Power (dBm)
GFSK 1M	0	2402	-3.69
	19	2440	-2.76
	39	2480	-3.49
GFSK 2M	0	2402	-3.83
	19	2440	-2.90
	39	2480	-3.52

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

5GHz WIFI

Mode	channel	Frequency	Conducted Output Power (dBm)							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	14.08	14.00	13.86	13.80	13.77	13.63	13.53	13.41
	40	5200	14.31	14.30	14.24	14.17	14.09	13.92	13.74	13.54
	48	5240	**14.68**	14.63	14.51	14.49	14.46	14.40	14.36	14.21
	52	5260	**14.89**	14.87	14.86	14.74	14.67	14.65	14.50	14.42
	60	5300	14.84	14.77	14.76	14.63	14.55	14.51	14.39	14.34
	64	5320	14.86	14.81	14.71	14.59	14.47	14.39	14.26	14.12
	100	5500	**15.19**	15.10	15.02	14.95	14.81	14.71	14.51	14.33
	116	5580	14.70	14.67	14.51	14.43	14.26	14.10	14.00	13.93
	140	5700	14.75	14.55	14.49	14.36	14.24	14.08	13.93	13.84
	149	5745	14.66	14.55	14.38	14.26	14.09	14.04	13.96	13.95
	157	5785	**14.83**	14.73	14.63	14.46	14.32	14.20	14.10	14.05
	165	5825	14.79	14.75	14.71	14.66	14.53	14.43	14.36	14.32
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (20)	36	5180	12.77	12.62	12.47	12.45	12.31	12.29	12.20	12.18
	40	5200	13.31	13.13	13.07	13.05	13.01	12.85	12.68	12.64
	48	5240	13.76	13.57	13.53	13.43	13.41	13.25	13.10	13.02
	52	5260	13.78	13.64	13.48	13.42	13.37	13.33	13.22	13.16
	60	5300	13.91	13.85	13.72	13.66	13.62	13.45	13.34	13.16
	64	5320	13.97	13.82	13.66	13.52	13.43	13.24	13.23	13.04
	100	5500	13.31	13.29	13.27	13.24	13.15	13.14	13.07	12.89
	116	5580	14.66	14.55	14.39	14.37	14.35	14.25	14.11	13.92
	140	5700	13.61	13.55	13.46	13.27	13.24	13.22	13.08	12.97
	149	5745	14.08	13.91	13.84	13.79	13.64	13.50	13.43	13.34
	157	5785	14.12	14.02	13.97	13.95	13.85	13.70	13.52	13.32
	165	5825	14.06	14.01	13.92	13.84	13.72	13.68	13.67	13.47
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (40)	38	5190	12.85	12.66	12.55	12.38	12.29	12.16	12.07	11.92
	46	5230	13.54	13.35	13.20	13.12	12.98	12.85	12.74	12.57
	54	5270	13.81	13.78	13.61	13.51	13.36	13.23	13.04	12.96
	62	5310	13.65	13.47	13.30	13.14	12.97	12.81	12.73	12.61
	102	5510	13.26	13.13	13.06	12.97	12.87	12.74	12.62	12.52
	110	5550	13.43	13.43	13.38	13.23	13.03	13.02	12.93	12.93
	134	5670	13.92	13.74	13.55	13.36	13.24	13.15	13.00	12.94
	151	5755	13.71	13.59	13.44	13.41	13.30	13.23	13.04	12.91
	159	5795	13.89	13.73	13.71	13.59	13.53	13.45	13.28	13.19

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Mode	channel	Frequency	Conducted Output Power (dBm)							
			Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (20)	36	5180	11.70	11.70	11.61	11.45	11.35	11.22	11.17	11.13
	40	5200	12.28	12.26	12.22	12.14	11.99	11.82	11.80	11.68
	48	5240	12.72	12.68	12.55	12.44	12.37	12.35	12.30	12.12
	52	5260	12.85	12.71	12.54	12.50	12.40	12.32	12.21	12.08
	60	5300	12.99	12.96	12.82	12.62	12.59	12.54	12.53	12.36
	64	5320	13.15	13.03	12.90	12.72	12.54	12.41	12.31	12.13
	100	5500	12.64	12.54	12.36	12.31	12.16	11.97	11.78	11.64
	116	5580	12.68	12.68	12.52	12.37	12.23	12.08	11.96	11.94
	140	5700	12.61	12.52	12.47	12.36	12.26	12.25	12.13	11.94
	149	5745	13.07	12.98	12.96	12.88	12.81	12.77	12.63	12.44
	157	5785	13.23	13.13	13.05	12.88	12.79	12.78	12.67	12.59
	165	5825	13.21	13.07	12.88	12.85	12.77	12.77	12.69	12.62
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (40)	38	5190	12.07	11.88	11.77	11.76	11.76	11.56	11.49	11.34
	46	5230	12.53	12.51	12.39	12.33	12.21	12.15	11.99	11.91
	54	5270	12.29	12.24	12.07	11.96	11.80	11.79	11.65	11.50
	62	5310	12.36	12.32	12.18	12.11	12.00	11.92	11.88	11.88
	102	5510	12.70	12.69	12.55	12.53	12.38	12.36	12.19	12.00
	110	5550	12.89	12.71	12.51	12.37	12.31	12.14	11.99	11.94
	134	5670	13.19	13.18	13.02	12.83	12.69	12.51	12.40	12.22
	151	5755	12.07	11.96	11.87	11.86	11.83	11.68	11.57	11.44
	159	5795	12.53	12.44	12.36	12.30	12.21	12.09	11.92	11.90
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (80)	42	5210	12.25	12.20	12.12	11.92	11.77	11.64	11.52	11.49
	58	5290	13.02	12.91	12.82	12.74	12.69	12.66	12.47	12.35
	106	5530	12.35	12.21	12.08	11.99	11.87	11.68	11.61	11.47
	122	5610	12.58	12.38	12.33	12.17	12.02	11.90	11.88	11.74
	155	5775	12.96	12.79	12.69	12.58	12.41	12.27	12.12	11.99

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Head SAR was performed with the device configured in the positions according to IEEE 1528-2013, Body-worn and 4 Edges SAR was performed with the device 10mm from the phantom.

13.1.2. Operation Mode

1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is ≥0.8W/kg, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
   (1) When the original highest measured SAR is ≥0.8W/kg, repeat that measurement once.
   (2) 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.
   (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥1.5 W/kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20.
3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call mode is selected to be test.
4. Per KDB 648474 D04 v01r03,when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤1.2W/kg, SAR testing with a headset connected is not required.
5. Per KDB 248227 D01v02r02,for 2.4GHz 802.11g/n SAR testing is not required 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 ≤1.2W/kg.
6. Per KDB 248227 D01 v02r02 Chapter 5.3.4, SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, the procedures in 5.3.2 are applied to determine the test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.
   (1) When SAR test exclusion provisions of KDB Publication 447498 D01 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
   (2) When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

7. Per KDB 941225 D06 V02r01, When the same wireless mode transmission configurations for voice and data are required for SAR measurements, the more conservative configuration with a smaller separation distance should be tested for the overlapping SAR configurations.
8. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
   Maximum Scaling SAR =tested SAR (Max.) ×[maximum turn-up power (mw)/ maximum measurement output power(mw)]
9. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result
10. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1RB allocation using the RB offset and required test channel combination with highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
11. Per KDB 941125 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
12. Per KDB 941125 D05v02r05. 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 1RB allocation and the highest reported SAR is >1.45 W/kg, the remaining required test channels must also be tested.
13. Per KDB 941125 D05v02r05. 16QAM output power for each RB allocation configuration is not 1/2 dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤1.45W/kg, Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
14. Per KDB 941125 D05v02r05. Smaller bandwidth output power for each RB allocation configuration is >not 1/2 dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤1.45W/kg. Per KDB 941125 D05v02r05, smaller bandwidth SAR testing is not required.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

13.1.3. Test Result

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 49.3					
Product: Mobile phone									
Test Mode: GSM850 with GMSK modulation									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
SIM 1 Card									
Left Cheek	voice	128	824.2	-0.09	0.782	33.50	33.39	0.802	1.6
Left Cheek	voice	190	836.6	0.03	0.902	33.20	33.05	0.934	1.6
Left Cheek	voice	251	848.8	-0.19	0.953	33.20	33.11	0.973	1.6
Left Tilt	voice	190	836.6	-0.04	0.582	33.20	33.05	0.602	1.6
Right Cheek	voice	128	824.2	0.32	0.912	33.50	33.39	0.935	1.6
Right Cheek	voice	190	836.6	-0.31	0.950	33.20	33.05	0.983	1.6
Right Cheek	voice	251	848.8	-0.11	**1.029**	33.20	33.11	**1.051**	1.6
Right Tilt	voice	190	836.6	0.20	0.517	33.20	33.05	0.535	1.6
Body back	voice	128	824.2	-0.33	1.023	33.50	33.39	1.049	1.6
Body back	voice	190	836.6	0.07	0.955	33.20	33.05	0.989	1.6
Body back	voice	251	848.8	-0.24	**1.050**	33.20	33.11	**1.072**	1.6
Body front	voice	190	836.6	0.09	0.761	33.20	33.05	0.788	1.6
Body back	GPRS-4 slot	128	824.2	-0.17	1.279	30.20	30.14	1.297	1.6
Body back	GPRS-4 slot	190	836.6	0.12	**1.303**	29.90	29.76	**1.346**	1.6
Body back	GPRS-4 slot	251	848.8	-0.20	1.290	29.70	29.61	1.317	1.6
Body front	GPRS-4 slot	128	824.2	0.05	1.079	30.20	30.14	1.094	1.6
Body front	GPRS-4 slot	190	836.6	-0.05	1.073	29.90	29.76	1.108	1.6
Body front	GPRS-4 slot	251	848.8	0.01	1.122	29.70	29.61	1.145	1.6
Edge 2(Right)	GPRS-4 slot	128	824.2	-0.13	0.928	30.20	30.14	0.941	1.6
Edge 2(Right)	GPRS-4 slot	190	836.6	0.29	0.922	29.90	29.76	0.952	1.6
Edge 2(Right)	GPRS-4 slot	251	848.8	-0.03	0.943	29.70	29.61	0.963	1.6
Edge 3(Bottom)	GPRS-4 slot	190	836.6	-0.07	0.177	29.90	29.76	0.183	1.6
Edge 4(Left)	GPRS-4 slot	128	824.2	0.03	0.781	30.20	30.14	0.792	1.6
Edge 4(Left)	GPRS-4 slot	190	836.6	0.17	0.793	29.90	29.76	0.819	1.6
Edge 4(Left)	GPRS-4 slot	251	848.8	-0.21	0.811	29.70	29.61	0.828	1.6
Body back+Ear.	GPRS-4 slot	128	824.2	0.08	1.243	30.20	30.14	1.260	1.6
Body back+Ear.	GPRS-4 slot	190	836.6	-0.18	1.202	29.90	29.76	1.241	1.6
Body back+Ear.	GPRS-4 slot	251	848.8	-0.04	1.298	29.70	29.61	1.325	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 55.4					
Product: Mobile phone									
Test Mode: PCS1900 with GMSK modulation									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
SIM 1 Card									
Left Cheek	voice	661	1880.0	-0.21	0.132	29.80	29.34	0.147	1.6
Left Tilt	voice	661	1880.0	0.21	0.059	29.80	29.34	0.066	1.6
Right Cheek	voice	661	1880.0	-0.19	**0.183**	29.80	29.34	**0.203**	1.6
Right Tilt	voice	661	1880.0	-0.08	0.039	29.80	29.34	0.043	1.6
Body back	voice	661	1880.0	-0.32	**0.364**	29.80	29.34	**0.405**	1.6
Body front	voice	661	1880.0	0.33	0.212	29.80	29.34	0.236	1.6
Body back	GPRS-2 slot	661	1880	-0.31	**0.615**	28.10	27.95	**0.637**	1.6
Body front	GPRS-2 slot	661	1880.0	0.04	0.387	28.10	27.95	0.401	1.6
Edge 2(Right)	GPRS-2 slot	661	1880.0	-0.27	0.299	28.10	27.95	0.310	1.6
Edge 3(Bottom)	GPRS-2 slot	661	1880.0	-0.32	0.493	28.10	27.95	0.510	1.6
Edge 4(Left)	GPRS-2 slot	661	1880.0	0.19	0.068	28.10	27.95	0.070	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 49.3					
Product: Mobile phone									
Test Mode: WCDMA Band V with QPSK modulation									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Left Cheek	RMC 12.2kbps	4183	836.4	-0.01	0.458	23.30	23.17	0.472	1.6
Left Tilt	RMC 12.2kbps	4183	836.4	0.30	0.372	23.30	23.17	0.383	1.6
Right Cheek	RMC 12.2kbps	4183	836.4	0.32	**0.563**	23.30	23.17	**0.580**	1.6
Right Tilt	RMC 12.2kbps	4183	836.4	0.11	0.334	23.30	23.17	0.344	1.6
Body back	RMC 12.2kbps	4183	836.4	0.05	**0.555**	23.30	23.17	**0.572**	1.6
Body front	RMC 12.2kbps	4183	836.4	-0.04	0.376	23.30	23.17	0.387	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.4	0.11	0.343	23.30	23.17	0.353	1.6
Edge 3(Bottom)	RMC 12.2kbps	4183	836.4	-0.13	0.059	23.30	23.17	0.061	1.6
Edge 4(Left)	RMC 12.2kbps	4183	836.4	0.21	0.297	23.30	23.17	0.306	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 55.4							
Product: Mobile phone													
Test Mode: LTE Band 2													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Left Cheek	1	0	18900	1880	-0.12	0.187	23.50	22.80	0.220	1.6
		Left Tilt	1	0	18900	1880	0.07	0.094	23.50	22.80	0.110	1.6
		Right Cheek	1	0	18900	1880	-0.11	**0.238**	23.50	22.80	**0.280**	1.6
		Right Tilt	1	0	18900	1880	0.27	0.050	23.50	22.80	0.059	1.6
		Body back	1	0	18900	1880	-0.31	**0.586**	23.50	22.80	**0.688**	1.6
		Body front	1	0	18900	1880	-0.26	0.345	23.50	22.80	0.405	1.6
		Edge 2(Right)	1	0	18900	1880	0.19	0.243	23.50	22.80	0.286	1.6
		Edge 3(Bottom)	1	0	18900	1880	-0.17	0.372	23.50	22.80	0.437	1.6
		Edge 4(Left)	1	0	18900	1880	0.31	0.043	23.50	22.80	0.051	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 57.2							
Product: Mobile phone													
Test Mode: LTE Band 4													
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tuneup Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**								
20	**QPSK**	Left Cheek	1	0	20175	1732.5	-0.12	0.669	23.80	22.67	0.689	1.6
		Left Tilt	1	0	20175	1732.5	0.16	0.401	23.80	22.67	0.413	1.6
		Right Cheek	1	0	20050	1720	0.22	0.726	23.80	22.75	0.734	1.6
		Right Cheek	1	0	20175	1732.5	-0.10	**0.845**	23.80	22.67	**0.871**	1.6
		Right Cheek	1	0	20300	1745	-0.01	0.733	23.80	22.57	0.773	1.6
		Right Tilt	1	0	20175	1732.5	0.08	0.329	23.80	22.67	0.339	1.6
		Body back	1	0	20050	1720	-0.30	**1.240**	23.80	22.75	**1.254**	1.6
		Body back	1	0	20175	1732.5	-0.06	1.120	23.80	22.67	1.154	1.6
		Body back	1	0	20300	1745	0.06	1.072	23.80	22.57	1.130	1.6
		Body front	1	0	20175	1732.5	0.22	0.772	23.80	22.67	0.795	1.6
		Edge 2(Right)	1	0	20175	1732.5	0.20	0.362	23.80	22.67	0.373	1.6
		Edge 3(Bottom)	1	0	20175	1732.5	-0.18	0.499	23.80	22.67	0.514	1.6
		Edge 4(Left)	1	0	20175	1732.5	-0.15	0.298	23.80	22.67	0.307	1.6
		Body back+Ear.	1	0	20050	1720	0.12	0.833	23.80	22.75	0.843	1.6
		Body back+Ear.	1	0	20175	1732.5	-0.15	0.863	23.80	22.67	0.889	1.6
		Body back+Ear.	1	0	20300	1745	0.24	0.833	23.80	22.57	0.878	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT													
Depth of Liquid (cm):>15					Relative Humidity (%): 49.3								
Product: Mobile phone													
Test Mode: LTE Band 5													
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tuneup Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**								
10	**QPSK**	Left Cheek	1	0	20525	836.5	-0.32	0.573	24.30	23.72	0.655	1.6
		Left Tilt	1	0	20525	836.5	0.03	0.449	24.30	23.72	0.513	1.6
		Right Cheek	1	0	20525	836.5	-0.05	**0.652**	24.30	23.72	**0.745**	1.6
		Right Tilt	1	0	20525	836.5	0.03	0.400	24.30	23.72	0.457	1.6
		Body back	1	0	20525	836.5	-0.19	**0.657**	24.30	23.72	**0.751**	1.6
		Body front	1	0	20525	836.5	-0.30	0.538	24.30	23.72	0.615	1.6
		Edge 2(Right)	1	0	20525	836.5	0.32	0.467	24.30	23.72	0.534	1.6
		Edge 3(Bottom)	1	0	20525	836.5	-0.20	0.070	24.30	23.72	0.080	1.6
		Edge 4(Left)	1	0	20525	836.5	0.26	0.444	24.30	23.72	0.507	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 50.9							
Product: Mobile phone													
Test Mode: LTE Band 7													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Left Cheek	1	0	20850	2510	-0.24	0.814	23.00	22.59	0.895	1.6
		Left Cheek	1	0	21100	2535	-0.16	0.825	23.00	22.47	0.932	1.6
		Left Cheek	1	0	21350	2560	-0.33	0.848	23.00	22.47	0.958	1.6
		Left Tilt	1	0	21100	2535	0.20	0.339	23.00	22.47	0.383	1.6
		Right Cheek	1	0	20850	2510	0.10	**0.866**	23.00	22.59	0.952	1.6
		Right Cheek	1	0	21100	2535	0.06	0.858	23.00	22.47	**0.969**	1.6
		Right Cheek	1	0	21350	2560	-0.18	0.801	23.00	22.47	0.905	1.6
		Right Tilt	1	0	21100	2535	0.13	0.208	23.00	22.47	0.235	1.6
		Body back	1	0	21100	2535	0.03	0.576	23.00	22.47	0.651	1.6
		Body front	1	0	20850	2510	-0.08	0.878	23.00	22.59	0.965	1.6
		Body front	1	0	21100	2535	0.10	**0.974**	23.00	22.47	**1.100**	1.6
		Body front	1	0	21350	2560	-0.03	0.780	23.00	22.47	0.881	1.6
		Edge 2(Right)	1	0	21100	2535	0.31	0.123	23.00	22.47	0.139	1.6
		Edge 3(Bottom)	1	0	21100	2535	-0.25	0.575	23.00	22.47	0.650	1.6
		Edge 4(Left)	1	0	21100	2535	0.10	0.910	23.00	22.59	1.000	1.6
		Edge 4(Left)	1	0	21100	2535	-0.20	0.887	23.00	22.47	1.002	1.6
		Edge 4(Left)	1	0	21100	2535	0.21	0.862	23.00	22.47	0.974	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 52.4							
Product: Mobile phone													
Test Mode: LTE Band 12													
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tuneup Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**	
			UL RB Allocation	**UL RB START**									
10	**QPSK**	Left Cheek	1	0	23095	707.5	-0.28	0.679	24.00	23.77	0.716	1.6	
		Left Tilt	1	0	23095	707.5	0.30	0.514	24.00	23.77	0.542	1.6	
		Right Cheek	1	0	23095	707.5	-0.31	**0.732**	24.00	23.77	**0.772**	1.6	
		Right Tilt	1	0	23095	707.5	-0.02	0.539	24.00	23.77	0.568	1.6	
		Body back	1	0	23060	704	0.22	0.680	24.00	23.72	0.725	1.6	
		Body back	1	0	23095	707.5	-0.25	0.761	24.00	23.77	**0.802**	1.6	
		Body back	1	0	23130	711	-0.21	**0.762**	24.00	23.81	0.796	1.6	
		Body front	1	0	23095	707.5	0.02	0.696	24.00	23.77	0.734	1.6	
		Edge 2(Right)	1	0	23095	707.5	-0.14	0.437	24.00	23.77	0.461	1.6	
		Edge 3(Bottom)	1	0	23095	707.5	-0.08	0.073	24.00	23.77	0.077	1.6	
		Edge 4(Left)	1	0	23095	707.5	-0.16	0.461	24.00	23.77	0.486	1.6	

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 52.4							
Product: Mobile phone													
Test Mode: LTE Band 13													
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tuneup Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**								
10	**QPSK**	Left Cheek	1	0	23230	782	-0.09	0.239	23.90	23.53	0.260	1.6
		Left Tilt	1	0	23230	782	-0.21	0.121	23.90	23.53	0.132	1.6
		Right Cheek	1	0	23230	782	0.16	**0.267**	23.90	23.53	**0.291**	1.6
		Right Tilt	1	0	23230	782	-0.21	0.116	23.90	23.53	0.126	1.6
		Body back	1	0	23230	782	-0.18	0.242	23.90	23.53	0.264	1.6
		Body front	1	0	23230	782	0.07	0.189	23.90	23.53	0.206	1.6
		Edge 2(Right)	1	0	23230	782	0.08	**0.310**	23.90	23.53	**0.338**	1.6
		Edge 3(Bottom)	1	0	23230	782	0.12	0.045	23.90	23.53	0.049	1.6
		Edge 4(Left)	1	0	23230	782	-0.25	0.125	23.90	23.53	0.136	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 52.4							
Product: Mobile phone													
Test Mode: LTE Band 17													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Left Cheek	1	0	23790	710	-0.32	0.645	24.10	23.85	0.683	1.6
		Left Tilt	1	0	23790	710	0.06	0.476	24.10	23.85	0.504	1.6
		Right Cheek	1	0	23790	710	-0.08	**0.737**	24.10	23.85	**0.781**	1.6
		Right Tilt	1	0	23790	710	-0.25	0.542	24.10	23.85	0.574	1.6
		Body back	1	0	23780	709	0.30	0.773	24.10	23.84	0.821	1.6
		Body back	1	0	23790	710	-0.19	0.777	24.10	23.85	**0.823**	1.6
		Body back	1	0	23800	711	0.09	**0.778**	24.10	23.86	0.822	1.6
		Body front	1	0	23790	710	-0.03	0.648	24.10	23.85	0.686	1.6
		Edge 2(Right)	1	0	23790	710	-0.18	0.443	24.10	23.85	0.469	1.6
		Edge 3(Bottom)	1	0	23790	710	-0.12	0.075	24.10	23.85	0.079	1.6
		Edge 4(Left)	1	0	23790	710	0.08	0.447	24.10	23.85	0.473	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 50.9							
Product: Mobile phone													
Test Mode: LTE Band 38													
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Left Cheek	1	0	37850	2580	-0.31	**0.918**	23.00	22.98	0.922	1.6
		Left Cheek	1	0	38000	2595	0.26	0.909	23.00	22.91	**0.928**	1.6
		Left Cheek	1	0	38150	2610	-0.32	0.866	23.00	22.78	0.911	1.6
		Left Tilt	1	0	38000	2595	-0.12	0.204	23.00	22.91	0.208	1.6
		Right Cheek	1	0	38000	2595	0.03	0.695	23.00	22.91	0.710	1.6
		Right Tilt	1	0	38000	2595	-0.19	0.164	23.00	22.91	0.167	1.6
		Body back	1	0	38000	2595	-0.18	0.297	23.00	22.91	0.303	1.6
		Body front	1	0	38000	2595	0.32	**0.595**	23.00	22.91	**0.607**	1.6
		Edge 2(Right)	1	0	38000	2595	-0.22	0.078	23.00	22.91	0.080	1.6
		Edge 3(Bottom)	1	0	38000	2595	-0.33	0.213	23.00	22.91	0.217	1.6
		Edge 4(Left)	1	0	38000	2595	0.06	0.401	23.00	22.91	0.409	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 51.8							
Product: Mobile phone													
Test Mode: LTE Band 40-Lower Side													
BW MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tuneup Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**	
			UL RB Allocation	**UL RB START**									
10	**QPSK**	Left Cheek	1	0	38750	2310	-0.17	**0.425**	12.70	12.38	**0.457**	1.6	
		Left Tilt	1	0	38750	2310	-0.01	0.126	12.70	12.38	0.136	1.6	
		Right Cheek	1	0	38750	2310	0.06	0.273	12.70	12.38	0.294	1.6	
		Right Tilt	1	0	38750	2310	-0.13	0.116	12.70	12.38	0.125	1.6	
		Body back	1	0	38750	2310	-0.04	0.220	12.70	12.38	0.237	1.6	
		Body front	1	0	38750	2310	0.10	0.358	12.70	12.38	0.385	1.6	
		Edge 2(Right)	1	0	38750	2310	-0.07	0.050	12.70	12.38	0.054	1.6	
		Edge 3(Bottom)	1	0	38750	2310	-0.10	**0.364**	12.70	12.38	**0.392**	1.6	
		Edge 4(Left)	1	0	38750	2310	0.20	0.300	12.70	12.38	0.323	1.6	

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 51.8							
Product: Mobile phone													
Test Mode: LTE Band 40- Upper Side													
BW MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tuneup Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**	
			UL RB Allocation	**UL RB START**									
10	**QPSK**	Left Cheek	1	0	39200	2355	-0.17	**0.459**	12.60	12.42	**0.478**	1.6	
		Left Tilt	1	0	39200	2355	0.21	0.154	12.60	12.42	0.161	1.6	
		Right Cheek	1	0	39200	2355	-0.31	0.255	12.60	12.42	0.266	1.6	
		Right Tilt	1	0	39200	2355	0.04	0.118	12.60	12.42	0.123	1.6	
		Body back	1	0	39200	2355	-0.05	0.230	12.60	12.42	0.240	1.6	
		Body front	1	0	39200	2355	-0.26	**0.336**	12.60	12.42	**0.350**	1.6	
		Edge 2(Right)	1	0	39200	2355	0.32	0.063	12.60	12.42	0.066	1.6	
		Edge 3(Bottom)	1	0	39200	2355	-0.24	0.304	12.60	12.42	0.317	1.6	
		Edge 4(Left)	1	0	39200	2355	0.10	0.278	12.60	12.42	0.290	1.6	

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 50.9							
Product: Mobile phone													
Test Mode: LTE Band 41													
BW MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tuneup Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**								
20	**QPSK**	Left Cheek	1	0	40640	2595	-0.29	**0.684**	23.60	22.96	**0.793**	1.6
		Left Tilt	1	0	40640	2595	-0.15	0.168	23.60	22.96	0.195	1.6
		Right Cheek	1	0	40640	2595	-0.25	0.429	23.60	22.96	0.497	1.6
		Right Tilt	1	0	40640	2595	0.03	0.146	23.60	22.96	0.169	1.6
		Body back	1	0	40640	2595	-0.22	0.230	23.60	22.96	0.267	1.6
		Body front	1	0	40640	2595	-0.15	**0.443**	23.60	22.96	**0.513**	1.6
		Edge 2(Right)	1	0	40640	2595	0.11	0.080	23.60	22.96	0.093	1.6
		Edge 3(Bottom)	1	0	40640	2595	-0.04	0.164	23.60	22.96	0.190	1.6
		Edge 4(Left)	1	0	40640	2595	-0.24	0.300	23.60	22.96	0.348	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 57.2							
Product: LTE smartphone													
Test Mode: LTE Band 66													
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Left Cheek	1	0	132422	1755	-0.15	0.411	23.80	23.07	0.486	1.6
		Left Tilt	1	0	132422	1755	0.03	0.268	23.80	23.07	0.317	1.6
		Right Cheek	1	0	132422	1755	0.29	**0.613**	23.80	23.07	**0.725**	1.6
		Right Tilt	1	0	132422	1755	-0.09	0.159	23.80	23.07	0.188	1.6
		Body back	1	0	132072	1720	-0.02	0.848	23.80	23.11	0.994	1.6
		Body back	1	0	132422	1755	0.13	**0.853**	23.80	23.07	1.009	1.6
		Body back	1	0	132572	1770	-0.20	0.846	23.80	22.99	**1.019**	1.6
		Body front	1	0	132422	1755	-0.20	0.471	23.80	23.07	0.557	1.6
		Edge 2(Right)	1	0	132422	1755	-0.14	0.264	23.80	23.07	0.312	1.6
		Edge 3(Bottom)	1	0	132422	1755	0.06	0.336	23.80	23.07	0.398	1.6
		Edge 4(Left)	1	0	132422	1755	-0.02	0.197	23.80	23.07	0.233	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 52.4							
Product: LTE smartphone													
Test Mode: LTE Band 71													
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Left Cheek	1	0	133322	683	-0.16	0.350	24.40	23.64	0.417	1.6
		Left Tilt	1	0	133322	683	0.32	0.249	24.40	23.64	0.297	1.6
		Right Cheek	1	0	133322	683	-0.25	**0.368**	24.40	23.64	**0.438**	1.6
		Right Tilt	1	0	133322	683	-0.24	0.232	24.40	23.64	0.276	1.6
		Body back	1	0	133322	683	0.15	**0.428**	24.40	23.64	**0.510**	1.6
		Body front	1	0	133322	683	-0.13	0.366	24.40	23.64	0.436	1.6
		Edge 2(Right)	1	0	133322	683	0.18	0.226	24.40	23.64	0.269	1.6
		Edge 3(Bottom)	1	0	133322	683	-0.08	0.058	24.40	23.64	0.069	1.6
		Edge 4(Left)	1	0	133322	683	0.33	0.232	24.40	23.64	0.276	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 59.8					
Product: Mobile phone									
Test Mode:802.11b									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Left Cheek	DTS	01	2412	-0.07	**0.497**	15.40	15.30	**0.509**	1.6
Left Tilt	DTS	01	2412	0.20	0.476	15.40	15.30	0.487	1.6
Right Cheek	DTS	01	2412	-0.28	0.445	15.40	15.30	0.455	1.6
Right Tilt	DTS	01	2412	-0.27	0.440	15.40	15.30	0.450	1.6
Body back	DTS	01	2412	0.02	**0.234**	15.40	15.30	**0.239**	1.6
Body front	DTS	01	2412	-0.17	0.203	15.40	15.30	0.208	1.6
Edge 1 (Top)	DTS	01	2412	-0.20	0.183	15.40	15.30	0.187	1.6
Edge 2(Right)	DTS	01	2412	0.25	0.177	15.40	15.30	0.181	1.6

Note:
· According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.
· All of above “DTS” means data transmitters.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT								
Depth of Liquid (cm):>15					Relative Humidity (%): 56.9			
Product: Mobile phone								
Test Mode: 5.2GHz WIFI-802.11a								
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Left Cheek	48	5240	-0.10	0.219	14.70	14.68	0.220	1.6
Left Tilt	48	5240	0.01	**0.228**	14.70	14.68	**0.229**	1.6
Right Cheek	48	5240	-0.21	0.142	14.70	14.68	0.143	1.6
Right Tilt	48	5240	0.15	0.148	14.70	14.68	0.149	1.6
Body back	48	5240	-0.21	0.123	14.70	14.68	0.124	1.6
Body front	48	5240	-0.02	0.080	14.70	14.68	0.080	1.6
Edge 1 (Top)	48	5240	0.10	**0.139**	14.70	14.68	**0.140**	1.6
Edge 2(Right)	48	5240	-0.24	0.137	14.70	14.68	0.138	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 60.4				
Product: Mobile phone								
Test Mode: 5.3GHz WIFI-802.11a								
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Left Cheek	52	5260	-0.04	**0.253**	14.90	14.89	**0.254**	1.6
Left Tilt	52	5260	0.07	0.214	14.90	14.89	0.214	1.6
Right Cheek	52	5260	-0.31	0.153	14.90	14.89	0.153	1.6
Right Tilt	52	5260	0.29	0.145	14.90	14.89	0.145	1.6
Body back	52	5260	-0.05	0.109	14.90	14.89	0.109	1.6
Body front	52	5260	-0.06	0.092	14.90	14.89	0.092	1.6
Edge 1 (Top)	52	5260	-0.15	0.132	14.90	14.89	0.132	1.6
Edge 2 (Right)	52	5260	0.13	**0.135**	14.90	14.89	**0.135**	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 58.4				
Product: Mobile phone								
Test Mode: 5.6GHzWIFI- 802.11a								
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Left Cheek	100	5500	-0.02	**0.536**	15.20	15.19	**0.537**	1.6
Left Tilt	100	5500	0.06	0.386	15.20	15.19	0.387	1.6
Right Cheek	100	5500	-0.14	0.231	15.20	15.19	0.232	1.6
Right Tilt	100	5500	-0.03	0.280	15.20	15.19	0.281	1.6
Body back	100	5500	-0.06	**0.183**	15.20	15.19	**0.183**	1.6
Body front	100	5500	0.04	0.131	15.20	15.19	0.131	1.6
Edge 1 (Top)	100	5500	0.29	0.175	15.20	15.19	0.175	1.6
Edge 2 (Right)	100	5500	-0.20	0.154	15.20	15.19	0.154	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT								
Depth of Liquid (cm):>15					Relative Humidity (%): 52.2			
Product: Mobile phone								
Test Mode: 5.8GHz WIFI-802.11a								
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Left Cheek	157	5785	-0.14	**0.590**	14.90	14.83	**0.600**	1.6
Left Tilt	157	5785	0.13	0.567	14.90	14.83	0.576	1.6
Right Cheek	157	5785	-0.29	0.437	14.90	14.83	0.444	1.6
Right Tilt	157	5785	0.06	0.392	14.90	14.83	0.398	1.6
Body back	157	5785	-0.23	0.151	14.90	14.83	0.153	1.6
Body front	157	5785	-0.33	0.157	14.90	14.83	0.160	1.6
Edge 1 (Top)	157	5785	0.11	0.108	14.90	14.83	0.110	1.6
Edge 2 (Right)	157	5785	-0.10	**0.202**	14.90	14.83	**0.205**	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Repeated SAR											
Product: Mobile phone											
Test Mode: GSM850& LTE Band 4& LTE Band 7& LTE Band 12& LTE Band 17& LTE Band 38& LTE Band 66											
Position	**Mode**		**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**Once SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Twice SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Third SAR (1g) (W/kg)**	**Limit W/kg**
Body back	GPRS-4 slot		190	836.6	0.12	1.273	--	--	--	--	1.6
Position	**Mode**		**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**Once SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Twice SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Third SAR (1g) (W/kg)**	**Limit W/kg**
	UL RB Allocation	**UL RB START**									
Body back	1	0	20050	1720	-0.17	1.197	--	--	--	--	1.6
Body front	1	0	21100	2535	-0.15	0.817	--	--	--	--	1.6
Body back	1	0	23130	711	-0.03	0.761	--	--	--	--	1.6
Body back	1	0	23800	711	-0.20	0.726	--	--	--	--	1.6
Left Cheek	1	0	37850	2580	0.01	0.879	--	--	--	--	1.6
Body back	1	0	132422	1755	-0.06	0.866	--	--	--	--	1.6

The second repeated SAR judge reference									
Product: Mobile phone									
Band	**Position**	**Mode**		**Ch.**	**Fr. (MHz)**	**Orignal SAR (1g) (W/kg)**	**First SAR (1g) (W/kg)**	**Ratio**	**Limit**
GSM850	Body back	GPRS-4 slot		190	836.6	1.303	1.273	1.024	<1.2
Band	**Position**	**Mode**		**Ch.**	**Fr. (MHz)**	**Orignal SAR (1g) (W/kg)**	**First SAR (1g) (W/kg)**	**Ratio**	**Limit**
		UL RB Allocation	**UL RB START**						
LTE Band 4	Body back	1	0	20050	1720	1.240	1.197	1.036	<1.2
LTE Band 7	Body front	1	0	21100	2535	0.974	0.817	1.192	<1.2
LTE Band 12	Body back	1	0	23130	711	0.762	0.761	1.001	<1.2
LTE Band 17	Body back	1	0	23800	711	0.778	0.726	1.072	<1.2
LTE Band 38	Left Cheek	1	0	37850	2580	0.918	0.879	1.044	<1.2
LTE Band 66	Body back	1	0	132422	1755	0.853	0.866	1.015	<1.2

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

NO	Simultaneous state	Portable Handset		
		Head	Body-worn	Hotspot
1	GSM(voice)+ WLAN 2.4GHz/ 5GHz (data)	Yes	Yes	-
2	GSM(voice)+ Bluetooth(data)	Yes	Yes	-
3	GSM (Data) + WLAN 2.4GHz/ 5GHz (data)	-	Yes	Yes
4	GSM (Data) + Bluetooth(data)	-	Yes	Yes
5	WCDMA+ WLAN 2.4GHz/ 5GHz (data)	Yes	Yes	Yes
6	WCDMA+ Bluetooth(data)	Yes	Yes	Yes
7	LTE + WLAN 2.4GHz/ 5GHz (data)	Yes	Yes	Yes
8	LTE + Bluetooth(data)	Yes	Yes	Yes

NOTE:

1. WIFI and BT share the same antenna, and cannot transmit simultaneously.
2. Simultaneous with every transmitter must be the same test position.
3. KDB 447498 D01, BT SAR is excluded as below table.
4. KDB 447498 D01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 0mm for head SAR and 10mm for body-worn SAR.
5. According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow:
   For 100 MHz to 6 GHz and test separation distances ⩽ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
   [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [√f(GHz)] ⩽ 3.0 for 1-g SAR, and ⩽ 7.5 for 10-g extremity SAR[30], where
   - f(GHz) is the RF channel transmit frequency in GHz
   - Power and distance are rounded to the nearest mW and mm before calculation[31]
   - The result is rounded to one decimal place for comparison
   - The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

   The test exclusions are applicable only when the minimum test separation distance is ⩽ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.
6. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
7. According to KDB 447498 D01 4.3.2, simultaneous transmission SAR test exclusion is as follow:
   (1) Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.
   (2) Any transmitters and antennas should be considered when calculating simultaneous mode.
   (3) For mobile phone and PC, it's the sum of all transmitters and antennas at the same mode with same position in each applicable exposure condition
   (4)When the standalone SAR test exclusion of section 4.3.2 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to det
   (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)/x] W/kg for test separation distances ≤ 50 mm;
   where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

8. When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion. The ratio is determined by (SAR1 + SAR2)1.5/Ri, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

Estimated SAR		Max Power including Tune-up Tolerance		Separation Distance (mm)	Estimated SAR (W/kg)
		dBm	mW		
BT	Head	5	3.162	0	0.132
	Body	5	3.162	10	0.066

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Sum of the SAR for GSM 850 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	WI-Fi DTS Band	Bluetooth		
Head (voice)	Left Touch	0.973	0.509		1.482	No
	Left Tilt	0.602	0.487		1.089	No
	Right Touch	1.051	0.455		1.506	No
	Right Tilt	0.535	0.450		0.985	No
Head (voice)	Left Touch	0.973		0.132	1.105	No
	Left Tilt	0.602		0.132	0.734	No
	Right Touch	1.051		0.132	1.183	No
	Right Tilt	0.535		0.132	0.667	No
Body-worn (voice)	Rear	1.072	0.239		1.311	No
		1.072		0.066	1.138	No
	Front	0.788	0.208		0.996	No
		0.788		0.066	0.854	No
Body-worn (Data)	Rear	1.346		0.066	1.412	No
		1.346	0.239		**1.585**	No
	Front	1.145		0.066	1.211	No
		1.145	0.208		1.353	No
Body-worn (Hotspot)	Edge 2	0.963	0.181		1.144	No
	Edge 2	0.963		0.066	1.029	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Head (voice)	Left Touch	0.973	0.220		1.193	No
	Left Tilt	0.602	0.229		0.831	No
	Right Touch	1.051	0.143		1.194	No
	Right Tilt	0.535	0.149		0.684	No
Head (voice)	Left Touch	0.973		0.254	1.227	No
	Left Tilt	0.602		0.214	0.816	No
	Right Touch	1.051		0.153	1.204	No
	Right Tilt	0.535		0.145	0.680	No
Body-worn (voice)	Rear	1.072	0.124		1.196	No
		1.072		0.109	1.181	No
	Front	0.788	0.080		0.868	No
		0.788		0.092	0.880	No
Body-worn (Data)	Rear	1.346		0.109	1.455	No
		1.346	0.124		1.470	No
	Front	1.145		0.092	1.237	No
		1.145	0.080		1.225	No
Body-worn (Hotspot)	Edge 2	0.963	0.138		1.101	No
	Edge 2	0.963		0.135	1.098	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	5.6GHz WI-Fi Band	5.8GHz WI-Fi Band		
Head (voice)	Left Touch	0.973	0.537		1.510	No
	Left Tilt	0.602	0.387		0.989	No
	Right Touch	1.051	0.232		1.283	No
	Right Tilt	0.535	0.281		0.816	No
Head (voice)	Left Touch	0.973		0.600	1.573	No
	Left Tilt	0.602		0.576	1.178	No
	Right Touch	1.051		0.444	1.495	No
	Right Tilt	0.535		0.398	0.933	No
Body-worn (voice)	Rear	1.072	0.183		1.255	No
		1.072		0.153	1.225	No
	Front	0.788	0.131		0.919	No
		0.788		0.160	0.948	No
Body-worn (Data)	Rear	1.346		0.153	1.499	No
		1.346	0.183		1.529	No
	Front	1.145		0.160	1.305	No
		1.145	0.131		1.276	No
Body-worn (Hotspot)	Edge 2	0.963	0.154		1.117	No
	Edge 2	0.963		0.205	1.168	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.

·SPLSR mean is "The SAR to Peak Location Separation Ratio "

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Sum of the SAR for GSM 1900 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	WI-Fi DTS Band	Bluetooth		
Head (voice)	Left Touch	0.147	0.509		0.656	No
	Left Tilt	0.066	0.487		0.553	No
	Right Touch	0.203	0.455		0.658	No
	Right Tilt	0.043	0.450		0.493	No
Head (voice)	Left Touch	0.147		0.132	0.279	No
	Left Tilt	0.066		0.132	0.198	No
	Right Touch	0.203		0.132	0.335	No
	Right Tilt	0.043		0.132	0.175	No
Body-worn (voice)	Rear	0.405	0.239		0.644	No
		0.405		0.066	0.471	No
	Front	0.236	0.208		0.444	No
		0.236		0.066	0.302	No
Body-worn (Data)	Rear	0.637		0.066	0.703	No
		0.637	0.239		0.876	No
	Front	0.401		0.066	0.467	No
		0.401	0.208		0.609	No
Body-worn (Hotspot)	Edge 2	0.310	0.181		0.491	No
	Edge 2	0.310		0.066	0.376	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Head (voice)	Left Touch	0.147	0.220		0.367	No
	Left Tilt	0.066	0.229		0.295	No
	Right Touch	0.203	0.143		0.346	No
	Right Tilt	0.043	0.149		0.192	No
Head (voice)	Left Touch	0.147		0.254	0.401	No
	Left Tilt	0.066		0.214	0.280	No
	Right Touch	0.203		0.153	0.356	No
	Right Tilt	0.043		0.145	0.188	No
Body-worn (voice)	Rear	0.405	0.124		0.529	No
		0.405		0.109	0.514	No
	Front	0.236	0.080		0.316	No
		0.236		0.092	0.328	No
Body-worn (Data)	Rear	0.637		0.109	0.746	No
		0.637	0.124		0.761	No
	Front	0.401		0.092	0.493	No
		0.401	0.080		0.481	No
Body-worn (Hotspot)	Edge 2	0.310	0.138		0.448	No
	Edge 2	0.310		0.135	0.445	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	5.6GHz WI-Fi Band	5.8GHz WI-Fi Band		
Head (voice)	Left Touch	0.147	0.537		0.684	No
	Left Tilt	0.066	0.387		0.453	No
	Right Touch	0.203	0.232		0.435	No
	Right Tilt	0.043	0.281		0.324	No
Head (voice)	Left Touch	0.147		0.600	0.747	No
	Left Tilt	0.066		0.576	0.642	No
	Right Touch	0.203		0.444	0.647	No
	Right Tilt	0.043		0.398	0.441	No
Body-worn (voice)	Rear	0.405	0.183		0.588	No
		0.405		0.153	0.558	No
	Front	0.236	0.131		0.367	No
		0.236		0.160	0.396	No
Body-worn (Data)	Rear	0.637		0.153	0.790	No
		0.637	0.183		0.820	No
	Front	0.401		0.160	0.561	No
		0.401	0.131		0.532	No
Body-worn (Hotspot)	Edge 2	0.310	0.154		0.464	No
	Edge 2	0.310		0.205	0.515	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is "The SAR to Peak Location Separation Ratio "

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Sum of the SAR for WCDMA Band V &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.472	0.509		0.981	No
	Left Tilt	0.383	0.487		0.870	No
	Right Touch	0.580	0.455		1.035	No
	Right Tilt	0.344	0.450		0.794	No
Head	Left Touch	0.472		0.132	0.604	No
	Left Tilt	0.383		0.132	0.515	No
	Right Touch	0.580		0.132	0.712	No
	Right Tilt	0.344		0.132	0.476	No
Body-worn	Rear	0.572	0.239		0.811	No
	Front	0.387	0.208		0.595	No
	Edge 2	0.353	0.181		0.534	No
	Rear	0.572		0.066	0.638	No
	Front	0.387		0.066	0.453	No
	Edge 2	0.353		0.066	0.419	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Head	Left Touch	0.472	0.220		0.692	No
	Left Tilt	0.383	0.229		0.612	No
	Right Touch	0.580	0.143		0.723	No
	Right Tilt	0.344	0.149		0.493	No
Head	Left Touch	0.472		0.254	0.726	No
	Left Tilt	0.383		0.214	0.597	No
	Right Touch	0.580		0.153	0.733	No
	Right Tilt	0.344		0.145	0.489	No
Body-worn	Rear	0.572	0.124		0.696	No
	Front	0.387	0.080		0.467	No
	Edge 2	0.353	0.138		0.491	No
	Rear	0.572		0.109	0.681	No
	Front	0.387		0.092	0.479	No
	Edge 2	0.353		0.135	0.488	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.6GHz WI-Fi Band	5.8GHz WI-Fi Band		
Head	Left Touch	0.472	0.537		1.009	No
	Left Tilt	0.383	0.387		0.770	No
	Right Touch	0.580	0.232		0.812	No
	Right Tilt	0.344	0.281		0.625	No
Head	Left Touch	0.472		0.600	1.072	No
	Left Tilt	0.383		0.576	0.959	No
	Right Touch	0.580		0.444	1.024	No
	Right Tilt	0.344		0.398	0.742	No
Body-worn	Rear	0.572	0.183		0.755	No
	Front	0.387	0.131		0.518	No
	Edge 2	0.353	0.154		0.507	No
	Rear	0.572		0.153	0.725	No
	Front	0.387		0.160	0.547	No
	Edge 2	0.353		0.205	0.558	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Sum of the SAR for LTE Band 2 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.220	0.509		0.729	No
	Left Tilt	0.110	0.487		0.597	No
	Right Touch	0.280	0.455		0.735	No
	Right Tilt	0.059	0.450		0.509	No
Head	Left Touch	0.220		0.132	0.352	No
	Left Tilt	0.110		0.132	0.242	No
	Right Touch	0.280		0.132	0.412	No
	Right Tilt	0.059		0.132	0.191	No
Body-worn	Rear	0.688	0.239		0.927	No
	Front	0.405	0.208		0.613	No
	Edge 2	0.286	0.181		0.467	No
	Rear	0.688		0.066	0.754	No
	Front	0.405		0.066	0.471	No
	Edge 2	0.286		0.066	0.352	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Head	Left Touch	0.220	0.220		0.440	No
	Left Tilt	0.110	0.229		0.339	No
	Right Touch	0.280	0.143		0.423	No
	Right Tilt	0.059	0.149		0.208	No
Head	Left Touch	0.220		0.254	0.474	No
	Left Tilt	0.110		0.214	0.324	No
	Right Touch	0.280		0.153	0.433	No
	Right Tilt	0.059		0.145	0.204	No
Body-worn	Rear	0.688	0.124		0.812	No
	Front	0.405	0.080		0.485	No
	Edge 2	0.286	0.138		0.424	No
	Rear	0.688		0.109	0.797	No
	Front	0.405		0.092	0.497	No
	Edge 2	0.286		0.135	0.421	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.6GHz WI-Fi Band	5.8GHz WI-Fi Band		
Head	Left Touch	0.220	0.537		0.757	No
	Left Tilt	0.110	0.387		0.497	No
	Right Touch	0.280	0.232		0.512	No
	Right Tilt	0.059	0.281		0.340	No
Head	Left Touch	0.220		0.600	0.820	No
	Left Tilt	0.110		0.576	0.686	No
	Right Touch	0.280		0.444	0.724	No
	Right Tilt	0.059		0.398	0.457	No
Body-worn	Rear	0.688	0.183		0.871	No
	Front	0.405	0.131		0.536	No
	Edge 2	0.286	0.154		0.440	No
	Rear	0.688		0.153	0.841	No
	Front	0.405		0.160	0.565	No
	Edge 2	0.286		0.205	0.491	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Sum of the SAR for LTE Band 4 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.689	0.509		1.198	No
	Left Tilt	0.413	0.487		0.900	No
	Right Touch	0.871	0.455		1.326	No
	Right Tilt	0.339	0.450		0.789	No
Head	Left Touch	0.689		0.132	0.821	No
	Left Tilt	0.413		0.132	0.545	No
	Right Touch	0.871		0.132	1.003	No
	Right Tilt	0.339		0.132	0.471	No
Body-worn	Rear	1.254	0.239		1.493	No
	Front	0.795	0.208		1.003	No
	Edge 2	0.373	0.181		0.554	No
	Rear	1.254		0.066	1.320	No
	Front	0.795		0.066	0.861	No
	Edge 2	0.373		0.066	0.439	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 4	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Head	Left Touch	0.689	0.220		0.909	No
	Left Tilt	0.413	0.229		0.642	No
	Right Touch	0.871	0.143		1.014	No
	Right Tilt	0.339	0.149		0.488	No
Head	Left Touch	0.689		0.254	0.943	No
	Left Tilt	0.413		0.214	0.627	No
	Right Touch	0.871		0.153	1.024	No
	Right Tilt	0.339		0.145	0.484	No
Body-worn	Rear	1.254	0.124		1.378	No
	Front	0.795	0.080		0.875	No
	Edge 2	0.373	0.138		0.511	No
	Rear	1.254		0.109	1.363	No
	Front	0.795		0.092	0.887	No
	Edge 2	0.373		0.135	0.508	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 4	5.6GHz WI-Fi Band	5.8GHz WI-Fi Band		
Head	Left Touch	0.689	0.537		1.226	No
	Left Tilt	0.413	0.387		0.800	No
	Right Touch	0.871	0.232		1.103	No
	Right Tilt	0.339	0.281		0.620	No
Head	Left Touch	0.689		0.600	1.289	No
	Left Tilt	0.413		0.576	0.989	No
	Right Touch	0.871		0.444	1.315	No
	Right Tilt	0.339		0.398	0.737	No
Body-worn	Rear	1.254	0.183		1.437	No
	Front	0.795	0.131		0.926	No
	Edge 2	0.373	0.154		0.527	No
	Rear	1.254		0.153	1.407	No
	Front	0.795		0.160	0.955	No
	Edge 2	0.373		0.205	0.578	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Sum of the SAR for LTE Band 5 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.655	0.509		1.164	No
	Left Tilt	0.513	0.487		1.000	No
	Right Touch	0.745	0.455		1.200	No
	Right Tilt	0.457	0.450		0.907	No
Head	Left Touch	0.655		0.132	0.787	No
	Left Tilt	0.513		0.132	0.645	No
	Right Touch	0.745		0.132	0.877	No
	Right Tilt	0.457		0.132	0.589	No
Body-worn	Rear	0.751	0.239		0.990	No
	Front	0.615	0.208		0.823	No
	Edge 2	0.534	0.181		0.715	No
	Rear	0.751		0.066	0.817	No
	Front	0.615		0.066	0.681	No
	Edge 2	0.534		0.066	0.600	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 5	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Head	Left Touch	0.655	0.220		0.875	No
	Left Tilt	0.513	0.229		0.742	No
	Right Touch	0.745	0.143		0.888	No
	Right Tilt	0.457	0.149		0.606	No
Head	Left Touch	0.655		0.254	0.909	No
	Left Tilt	0.513		0.214	0.727	No
	Right Touch	0.745		0.153	0.898	No
	Right Tilt	0.457		0.145	0.602	No
Body-worn	Rear	0.751	0.124		0.875	No
	Front	0.615	0.080		0.695	No
	Edge 2	0.534	0.138		0.672	No
	Rear	0.751		0.109	0.860	No
	Front	0.615		0.092	0.707	No
	Edge 2	0.534		0.135	0.669	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 5	5.6GHz WI-Fi Band	5.8GHz WI-Fi Band		
Head	Left Touch	0.655	0.537		1.192	No
	Left Tilt	0.513	0.387		0.900	No
	Right Touch	0.745	0.232		0.977	No
	Right Tilt	0.457	0.281		0.738	No
Head	Left Touch	0.655		0.600	1.255	No
	Left Tilt	0.513		0.576	1.089	No
	Right Touch	0.745		0.444	1.189	No
	Right Tilt	0.457		0.398	0.855	No
Body-worn	Rear	0.751	0.183		0.934	No
	Front	0.615	0.131		0.746	No
	Edge 2	0.534	0.154		0.688	No
	Rear	0.751		0.153	0.904	No
	Front	0.615		0.160	0.775	No
	Edge 2	0.534		0.205	0.739	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Sum of the SAR for LTE Band 7 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.958	0.509		1.467	No
	Left Tilt	0.383	0.487		0.870	No
	Right Touch	0.969	0.455		1.424	No
	Right Tilt	0.235	0.450		0.685	No
Head	Left Touch	0.958		0.132	1.090	No
	Left Tilt	0.383		0.132	0.515	No
	Right Touch	0.969		0.132	1.101	No
	Right Tilt	0.235		0.132	0.367	No
Body-worn	Rear	0.651	0.239		0.890	No
	Front	1.100	0.208		1.308	No
	Edge 2	0.139	0.181		0.320	No
	Rear	0.651		0.066	0.717	No
	Front	1.100		0.066	1.166	No
	Edge 2	0.139		0.066	0.205	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 7	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Head	Left Touch	0.958	0.220		1.178	No
	Left Tilt	0.383	0.229		0.612	No
	Right Touch	0.969	0.143		1.112	No
	Right Tilt	0.235	0.149		0.384	No
Head	Left Touch	0.958		0.254	1.212	No
	Left Tilt	0.383		0.214	0.597	No
	Right Touch	0.969		0.153	1.122	No
	Right Tilt	0.235		0.145	0.380	No
Body-worn	Rear	0.651	0.124		0.775	No
	Front	1.100	0.080		1.180	No
	Edge 2	0.139	0.138		0.277	No
	Rear	0.651		0.109	0.760	No
	Front	1.100		0.092	1.192	No
	Edge 2	0.139		0.135	0.274	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 7	5.6GHz WI-Fi Band	5.8GHz WI-Fi Band		
Head	Left Touch	0.958	0.537		1.495	No
	Left Tilt	0.383	0.387		0.770	No
	Right Touch	0.969	0.232		1.201	No
	Right Tilt	0.235	0.281		0.516	No
Head	Left Touch	0.958		0.600	1.558	No
	Left Tilt	0.383		0.576	0.959	No
	Right Touch	0.969		0.444	1.413	No
	Right Tilt	0.235		0.398	0.633	No
Body-worn	Rear	0.651	0.183		0.834	No
	Front	1.100	0.131		1.231	No
	Edge 2	0.139	0.154		0.293	No
	Rear	0.651		0.153	0.804	No
	Front	1.100		0.160	1.260	No
	Edge 2	0.139		0.205	0.344	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Sum of the SAR for LTE Band 12 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.716	0.509		1.225	No
	Left Tilt	0.542	0.487		1.029	No
	Right Touch	0.772	0.455		1.227	No
	Right Tilt	0.568	0.450		1.018	No
Head	Left Touch	0.716		0.132	0.848	No
	Left Tilt	0.542		0.132	0.674	No
	Right Touch	0.772		0.132	0.904	No
	Right Tilt	0.568		0.132	0.700	No
Body-worn	Rear	0.802	0.239		1.041	No
	Front	0.734	0.208		0.942	No
	Edge 2	0.461	0.181		0.642	No
	Rear	0.802		0.066	0.868	No
	Front	0.734		0.066	0.800	No
	Edge 2	0.461		0.066	0.527	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 12	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Head	Left Touch	0.716	0.220		0.936	No
	Left Tilt	0.542	0.229		0.771	No
	Right Touch	0.772	0.143		0.915	No
	Right Tilt	0.568	0.149		0.717	No
Head	Left Touch	0.716		0.254	0.970	No
	Left Tilt	0.542		0.214	0.756	No
	Right Touch	0.772		0.153	0.925	No
	Right Tilt	0.568		0.145	0.713	No
Body-worn	Rear	0.802	0.124		0.926	No
	Front	0.734	0.080		0.814	No
	Edge 2	0.461	0.138		0.599	No
	Rear	0.802		0.109	0.911	No
	Front	0.734		0.092	0.826	No
	Edge 2	0.461		0.135	0.596	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 12	5.6GHz WI-Fi Band	5.8GHz WI-Fi Band		
Head	Left Touch	0.716	0.537		1.253	No
	Left Tilt	0.542	0.387		0.929	No
	Right Touch	0.772	0.232		1.004	No
	Right Tilt	0.568	0.281		0.849	No
Head	Left Touch	0.716		0.600	1.316	No
	Left Tilt	0.542		0.576	1.118	No
	Right Touch	0.772		0.444	1.216	No
	Right Tilt	0.568		0.398	0.966	No
Body-worn	Rear	0.802	0.183		0.985	No
	Front	0.734	0.131		0.865	No
	Edge 2	0.461	0.154		0.615	No
	Rear	0.802		0.153	0.955	No
	Front	0.734		0.160	0.894	No
	Edge 2	0.461		0.205	0.666	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Sum of the SAR for LTE Band 13 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 13	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.260	0.509		0.769	No
	Left Tilt	0.132	0.487		0.619	No
	Right Touch	0.291	0.455		0.746	No
	Right Tilt	0.126	0.450		0.576	No
Head	Left Touch	0.260		0.132	0.392	No
	Left Tilt	0.132		0.132	0.264	No
	Right Touch	0.291		0.132	0.423	No
	Right Tilt	0.126		0.132	0.258	No
Body-worn	Rear	0.264	0.239		0.503	No
	Front	0.206	0.208		0.414	No
	Edge 2	0.338	0.181		0.519	No
	Rear	0.264		0.066	0.330	No
	Front	0.206		0.066	0.272	No
	Edge 2	0.338		0.066	0.404	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 13	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Head	Left Touch	0.260	0.220		0.480	No
	Left Tilt	0.132	0.229		0.361	No
	Right Touch	0.291	0.143		0.434	No
	Right Tilt	0.126	0.149		0.275	No
Head	Left Touch	0.260		0.254	0.514	No
	Left Tilt	0.132		0.214	0.346	No
	Right Touch	0.291		0.153	0.444	No
	Right Tilt	0.126		0.145	0.271	No
Body-worn	Rear	0.264	0.124		0.388	No
	Front	0.206	0.080		0.286	No
	Edge 2	0.338	0.138		0.476	No
	Rear	0.264		0.109	0.373	No
	Front	0.206		0.092	0.298	No
	Edge 2	0.338		0.135	0.473	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 13	5.6GHz WI-Fi Band	5.8GHz WI-Fi Band		
Head	Left Touch	0.260	0.537		0.797	No
	Left Tilt	0.132	0.387		0.519	No
	Right Touch	0.291	0.232		0.523	No
	Right Tilt	0.126	0.281		0.407	No
Head	Left Touch	0.260		0.600	0.860	No
	Left Tilt	0.132		0.576	0.708	No
	Right Touch	0.291		0.444	0.735	No
	Right Tilt	0.126		0.398	0.524	No
Body-worn	Rear	0.264	0.183		0.447	No
	Front	0.206	0.131		0.337	No
	Edge 2	0.338	0.154		0.492	No
	Rear	0.264		0.153	0.417	No
	Front	0.206		0.160	0.366	No
	Edge 2	0.338		0.205	0.543	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Sum of the SAR for LTE Band 17 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 17	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.683	0.509		1.192	No
	Left Tilt	0.504	0.487		0.991	No
	Right Touch	0.781	0.455		1.236	No
	Right Tilt	0.574	0.450		1.024	No
Head	Left Touch	0.683		0.132	0.815	No
	Left Tilt	0.504		0.132	0.636	No
	Right Touch	0.781		0.132	0.913	No
	Right Tilt	0.574		0.132	0.706	No
Body-worn	Rear	0.823	0.239		1.062	No
	Front	0.686	0.208		0.894	No
	Edge 2	0.469	0.181		0.650	No
	Rear	0.823		0.066	0.889	No
	Front	0.686		0.066	0.752	No
	Edge 2	0.469		0.066	0.535	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 17	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Head	Left Touch	0.683	0.220		0.903	No
	Left Tilt	0.504	0.229		0.733	No
	Right Touch	0.781	0.143		0.924	No
	Right Tilt	0.574	0.149		0.723	No
Head	Left Touch	0.683		0.254	0.937	No
	Left Tilt	0.504		0.214	0.718	No
	Right Touch	0.781		0.153	0.934	No
	Right Tilt	0.574		0.145	0.719	No
Body-worn	Rear	0.823	0.124		0.947	No
	Front	0.686	0.080		0.766	No
	Edge 2	0.469	0.138		0.607	No
	Rear	0.823		0.109	0.932	No
	Front	0.686		0.092	0.778	No
	Edge 2	0.469		0.135	0.604	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 17	5.6GHz WI-Fi Band	5.8GHz WI-Fi Band		
Head	Left Touch	0.683	0.537		1.220	No
	Left Tilt	0.504	0.387		0.891	No
	Right Touch	0.781	0.232		1.013	No
	Right Tilt	0.574	0.281		0.855	No
Head	Left Touch	0.683		0.600	1.283	No
	Left Tilt	0.504		0.576	1.080	No
	Right Touch	0.781		0.444	1.225	No
	Right Tilt	0.574		0.398	0.972	No
Body-worn	Rear	0.823	0.183		1.006	No
	Front	0.686	0.131		0.817	No
	Edge 2	0.469	0.154		0.623	No
	Rear	0.823		0.153	0.976	No
	Front	0.686		0.160	0.846	No
	Edge 2	0.469		0.205	0.674	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Sum of the SAR for LTE Band 38 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 38	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.928	0.509		1.437	No
	Left Tilt	0.208	0.487		0.695	No
	Right Touch	0.710	0.455		1.165	No
	Right Tilt	0.167	0.450		0.617	No
Head	Left Touch	0.928		0.132	1.060	No
	Left Tilt	0.208		0.132	0.340	No
	Right Touch	0.710		0.132	0.842	No
	Right Tilt	0.167		0.132	0.299	No
Body-worn	Rear	0.303	0.239		0.542	No
	Front	0.607	0.208		0.815	No
	Edge 2	0.080	0.181		0.261	No
	Rear	0.303		0.066	0.369	No
	Front	0.607		0.066	0.673	No
	Edge 2	0.080		0.066	0.146	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 38	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Head	Left Touch	0.928	0.220		1.148	No
	Left Tilt	0.208	0.229		0.437	No
	Right Touch	0.710	0.143		0.853	No
	Right Tilt	0.167	0.149		0.316	No
Head	Left Touch	0.928		0.254	1.182	No
	Left Tilt	0.208		0.214	0.422	No
	Right Touch	0.710		0.153	0.863	No
	Right Tilt	0.167		0.145	0.312	No
Body-worn	Rear	0.303	0.124		0.427	No
	Front	0.607	0.080		0.687	No
	Edge 2	0.080	0.138		0.218	No
	Rear	0.303		0.109	0.412	No
	Front	0.607		0.092	0.699	No
	Edge 2	0.080		0.135	0.215	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 38	5.6GHz WI-Fi Band	5.8GHz WI-Fi Band		
Head	Left Touch	0.928	0.537		1.465	No
	Left Tilt	0.208	0.387		0.595	No
	Right Touch	0.710	0.232		0.942	No
	Right Tilt	0.167	0.281		0.448	No
Head	Left Touch	0.928		0.600	1.528	No
	Left Tilt	0.208		0.576	0.784	No
	Right Touch	0.710		0.444	1.154	No
	Right Tilt	0.167		0.398	0.565	No
Body-worn	Rear	0.303	0.183		0.486	No
	Front	0.607	0.131		0.738	No
	Edge 2	0.080	0.154		0.234	No
	Rear	0.303		0.153	0.456	No
	Front	0.607		0.160	0.767	No
	Edge 2	0.080		0.205	0.285	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Sum of the SAR for LTE Band 40-Lower Side &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 40-Lower Side	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.457	0.509		0.966	No
	Left Tilt	0.136	0.487		0.623	No
	Right Touch	0.294	0.455		0.749	No
	Right Tilt	0.125	0.450		0.575	No
Head	Left Touch	0.457		0.132	0.589	No
	Left Tilt	0.136		0.132	0.268	No
	Right Touch	0.294		0.132	0.426	No
	Right Tilt	0.125		0.132	0.257	No
Body-worn	Rear	0.237	0.239		0.476	No
	Front	0.385	0.208		0.593	No
	Edge 2	0.054	0.181		0.235	No
	Rear	0.237		0.066	0.303	No
	Front	0.385		0.066	0.451	No
	Edge 2	0.054		0.066	0.120	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 40-Lower Side	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Head	Left Touch	0.457	0.220		0.677	No
	Left Tilt	0.136	0.229		0.365	No
	Right Touch	0.294	0.143		0.437	No
	Right Tilt	0.125	0.149		0.274	No
Head	Left Touch	0.457		0.254	0.711	No
	Left Tilt	0.136		0.214	0.350	No
	Right Touch	0.294		0.153	0.447	No
	Right Tilt	0.125		0.145	0.270	No
Body-worn	Rear	0.237	0.124		0.361	No
	Front	0.385	0.080		0.465	No
	Edge 2	0.054	0.138		0.192	No
	Rear	0.237		0.109	0.346	No
	Front	0.385		0.092	0.477	No
	Edge 2	0.054		0.135	0.189	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 40-Lower Side	5.6GHz WI-Fi Band	5.8GHz WI-Fi Band		
Head	Left Touch	0.457	0.537		0.994	No
	Left Tilt	0.136	0.387		0.523	No
	Right Touch	0.294	0.232		0.526	No
	Right Tilt	0.125	0.281		0.406	No
Head	Left Touch	0.457		0.600	1.057	No
	Left Tilt	0.136		0.576	0.712	No
	Right Touch	0.294		0.444	0.738	No
	Right Tilt	0.125		0.398	0.523	No
Body-worn	Rear	0.237	0.183		0.420	No
	Front	0.385	0.131		0.516	No
	Edge 2	0.054	0.154		0.208	No
	Rear	0.237		0.153	0.390	No
	Front	0.385		0.160	0.545	No
	Edge 2	0.054		0.205	0.259	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Sum of the SAR for LTE Band 40-Upper Side &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 40-Upper Side	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.478	0.509		0.987	No
	Left Tilt	0.161	0.487		0.648	No
	Right Touch	0.266	0.455		0.721	No
	Right Tilt	0.123	0.450		0.573	No
Head	Left Touch	0.478		0.132	0.610	No
	Left Tilt	0.161		0.132	0.293	No
	Right Touch	0.266		0.132	0.398	No
	Right Tilt	0.123		0.132	0.255	No
Body-worn	Rear	0.240	0.239		0.479	No
	Front	0.350	0.208		0.558	No
	Edge 2	0.066	0.181		0.247	No
	Rear	0.240		0.066	0.306	No
	Front	0.350		0.066	0.416	No
	Edge 2	0.066		0.066	0.132	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 40-Upper Side	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Head	Left Touch	0.478	0.220		0.698	No
	Left Tilt	0.161	0.229		0.390	No
	Right Touch	0.266	0.143		0.409	No
	Right Tilt	0.123	0.149		0.272	No
Head	Left Touch	0.478		0.254	0.732	No
	Left Tilt	0.161		0.214	0.375	No
	Right Touch	0.266		0.153	0.419	No
	Right Tilt	0.123		0.145	0.268	No
Body-worn	Rear	0.240	0.124		0.364	No
	Front	0.350	0.080		0.430	No
	Edge 2	0.066	0.138		0.204	No
	Rear	0.240		0.109	0.349	No
	Front	0.350		0.092	0.442	No
	Edge 2	0.066		0.135	0.201	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 40-Upper Side	5.6GHz WI-Fi Band	5.8GHz WI-Fi Band		
Head	Left Touch	0.478	0.537		1.015	No
	Left Tilt	0.161	0.387		0.548	No
	Right Touch	0.266	0.232		0.498	No
	Right Tilt	0.123	0.281		0.404	No
Head	Left Touch	0.478		0.600	1.078	No
	Left Tilt	0.161		0.576	0.737	No
	Right Touch	0.266		0.444	0.710	No
	Right Tilt	0.123		0.398	0.521	No
Body-worn	Rear	0.240	0.183		0.423	No
	Front	0.350	0.131		0.481	No
	Edge 2	0.066	0.154		0.220	No
	Rear	0.240		0.153	0.393	No
	Front	0.350		0.160	0.510	No
	Edge 2	0.066		0.205	0.271	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Sum of the SAR for LTE Band 41 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 41	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.793	0.509		1.302	No
	Left Tilt	0.195	0.487		0.682	No
	Right Touch	0.497	0.455		0.952	No
	Right Tilt	0.169	0.450		0.619	No
Head	Left Touch	0.793		0.132	0.925	No
	Left Tilt	0.195		0.132	0.327	No
	Right Touch	0.497		0.132	0.629	No
	Right Tilt	0.169		0.132	0.301	No
Body-worn	Rear	0.267	0.239		0.506	No
	Front	0.513	0.208		0.721	No
	Edge 2	0.093	0.181		0.274	No
	Rear	0.267		0.066	0.333	No
	Front	0.513		0.066	0.579	No
	Edge 2	0.093		0.066	0.159	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 41	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Head	Left Touch	0.793	0.220		1.013	No
	Left Tilt	0.195	0.229		0.424	No
	Right Touch	0.497	0.143		0.640	No
	Right Tilt	0.169	0.149		0.318	No
Head	Left Touch	0.793		0.254	1.047	No
	Left Tilt	0.195		0.214	0.409	No
	Right Touch	0.497		0.153	0.650	No
	Right Tilt	0.169		0.145	0.169	No
Body-worn	Rear	0.267	0.124		0.391	No
	Front	0.513	0.080		0.593	No
	Edge 2	0.093	0.138		0.231	No
	Rear	0.267		0.109	0.267	No
	Front	0.513		0.092	0.513	No
	Edge 2	0.093		0.135	0.093	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 41	5.6GHz WI-Fi Band	5.8GHz WI-Fi Band		
Head	Left Touch	0.793	0.537		1.330	No
	Left Tilt	0.195	0.387		0.582	No
	Right Touch	0.497	0.232		0.729	No
	Right Tilt	0.169	0.281		0.450	No
Head	Left Touch	0.793		0.600	1.393	No
	Left Tilt	0.195		0.576	0.771	No
	Right Touch	0.497		0.444	0.941	No
	Right Tilt	0.169		0.398	0.567	No
Body-worn	Rear	0.267	0.183		0.450	No
	Front	0.513	0.131		0.644	No
	Edge 2	0.093	0.154		0.247	No
	Rear	0.267		0.153	0.420	No
	Front	0.513		0.160	0.673	No
	Edge 2	0.093		0.205	0.298	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Sum of the SAR for LTE Band 66 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 66	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.486	0.509		0.995	No
	Left Tilt	0.317	0.487		0.804	No
	Right Touch	0.725	0.455		1.180	No
	Right Tilt	0.188	0.450		0.638	No
Head	Left Touch	0.486		0.132	0.618	No
	Left Tilt	0.317		0.132	0.449	No
	Right Touch	0.725		0.132	0.857	No
	Right Tilt	0.188		0.132	0.320	No
Body-worn	Rear	1.019	0.239		1.258	No
	Front	0.557	0.208		0.765	No
	Edge 2	0.312	0.181		0.493	No
	Rear	1.019		0.066	1.085	No
	Front	0.557		0.066	0.623	No
	Edge 2	0.312		0.066	0.378	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 66	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Head	Left Touch	0.486	0.220		0.706	No
	Left Tilt	0.317	0.229		0.546	No
	Right Touch	0.725	0.143		0.868	No
	Right Tilt	0.188	0.149		0.337	No
Head	Left Touch	0.486		0.254	0.740	No
	Left Tilt	0.317		0.214	0.531	No
	Right Touch	0.725		0.153	0.878	No
	Right Tilt	0.188		0.145	0.188	No
Body-worn	Rear	1.019	0.124		1.143	No
	Front	0.557	0.080		0.637	No
	Edge 2	0.312	0.138		0.450	No
	Rear	1.019		0.109	1.019	No
	Front	0.557		0.092	0.557	No
	Edge 2	0.312		0.135	0.312	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 66	5.6GHz WI-Fi Band	5.8GHz WI-Fi Band		
Head	Left Touch	0.486	0.537		1.023	No
	Left Tilt	0.317	0.387		0.704	No
	Right Touch	0.725	0.232		0.957	No
	Right Tilt	0.188	0.281		0.469	No
Head	Left Touch	0.486		0.600	1.086	No
	Left Tilt	0.317		0.576	0.893	No
	Right Touch	0.725		0.444	1.169	No
	Right Tilt	0.188		0.398	0.586	No
Body-worn	Rear	1.019	0.183		1.202	No
	Front	0.557	0.131		0.688	No
	Edge 2	0.312	0.154		0.466	No
	Rear	1.019		0.153	1.172	No
	Front	0.557		0.160	0.717	No
	Edge 2	0.312		0.205	0.517	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Sum of the SAR for LTE Band 71 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 71	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.417	0.509		0.926	No
	Left Tilt	0.297	0.487		0.784	No
	Right Touch	0.438	0.455		0.893	No
	Right Tilt	0.276	0.450		0.726	No
Head	Left Touch	0.417		0.132	0.549	No
	Left Tilt	0.297		0.132	0.429	No
	Right Touch	0.438		0.132	0.570	No
	Right Tilt	0.276		0.132	0.276	No
Body-worn	Rear	0.510	0.239		0.749	No
	Front	0.436	0.208		0.644	No
	Edge 2	0.269	0.181		0.450	No
	Rear	0.510		0.066	0.510	No
	Front	0.436		0.066	0.436	No
	Edge 2	0.269		0.066	0.269	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 71	5.2GHz WI-Fi Band	5.3GHz WI-Fi Band		
Head	Left Touch	0.417	0.220		0.637	No
	Left Tilt	0.297	0.229		0.526	No
	Right Touch	0.438	0.143		0.581	No
	Right Tilt	0.276	0.149		0.425	No
Head	Left Touch	0.417		0.254	0.671	No
	Left Tilt	0.297		0.214	0.511	No
	Right Touch	0.438		0.153	0.591	No
	Right Tilt	0.276		0.145	0.421	No
Body-worn	Rear	0.510	0.124		0.634	No
	Front	0.436	0.080		0.516	No
	Edge 2	0.269	0.138		0.407	No
	Rear	0.510		0.109	0.619	No
	Front	0.436		0.092	0.528	No
	Edge 2	0.269		0.135	0.404	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Simultaneous Transmission Scenario	
		LTE Band 71	5.6GHz WI-Fi Band	5.8GHz WI-Fi Band		
Head	Left Touch	0.417	0.537		0.954	No
	Left Tilt	0.297	0.387		0.684	No
	Right Touch	0.438	0.232		0.670	No
	Right Tilt	0.276	0.281		0.557	No
Head	Left Touch	0.417		0.600	1.017	No
	Left Tilt	0.297		0.576	0.873	No
	Right Touch	0.438		0.444	0.882	No
	Right Tilt	0.276		0.398	0.674	No
Body-worn	Rear	0.510	0.183		0.693	No
	Front	0.436	0.131		0.567	No
	Edge 2	0.269	0.154		0.423	No
	Rear	0.510		0.153	0.663	No
	Front	0.436		0.160	0.596	No
	Edge 2	0.269		0.205	0.474	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab **Date: Jul. 23, 2024**

System Check Head 750 MHz

DUT: Dipole 750 MHz Type: SID 750

Communication System CW; Communication System Band: D750 (750.0 MHz); Duty Cycle: 1:1; Conv.F=2.04

Frequency: 750 MHz; Medium parameters used: f = 750 MHz; σ=0.91 mho/m; εr =42.68; ρ= 1000 kg/m³ ;

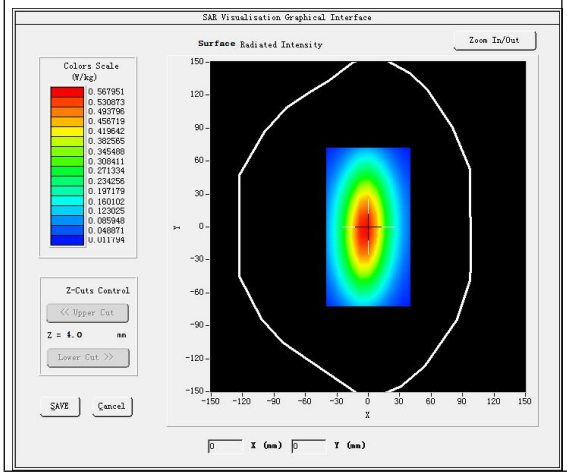
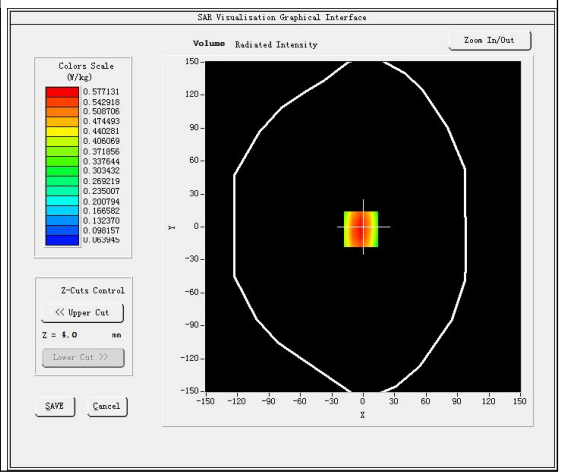
Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (℃):20.9, Liquid temperature (℃): 20.8

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 750MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

SURFACE SAR	VOLUME SAR
	

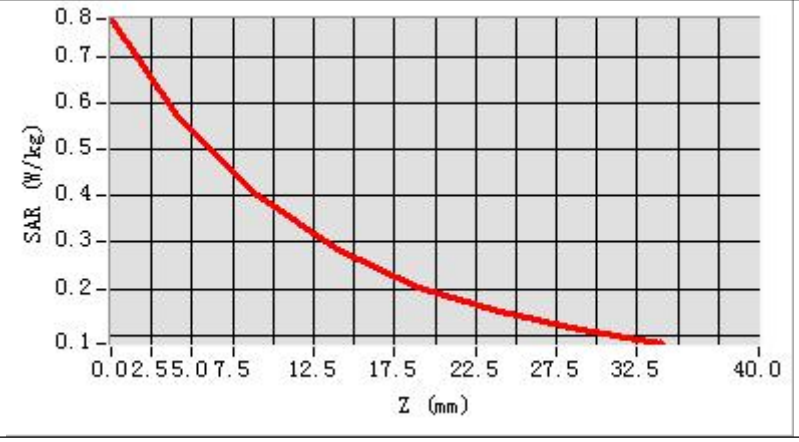
Maximum location: X=-2.00, Y=-2.00

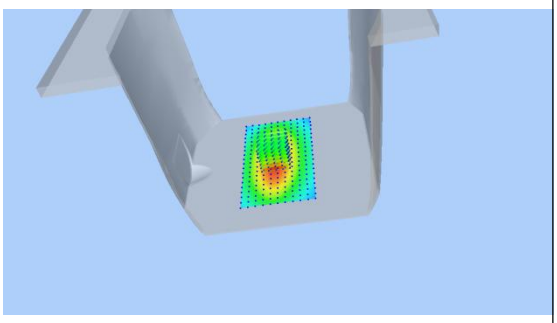
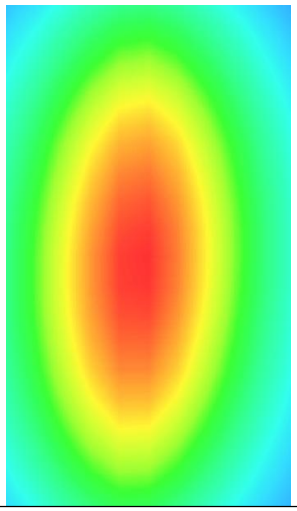
SAR Peak: 0.77 W/kg

SAR 10g (W/Kg)	0.362204
SAR 1g (W/Kg)	0.560325

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7794	0.5760	0.3972	0.2812	0.2042	0.1492	0.1100



3D screen shot	Hot spot position
	

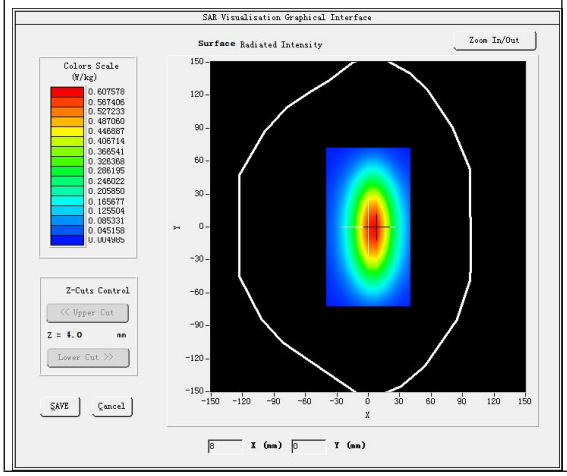
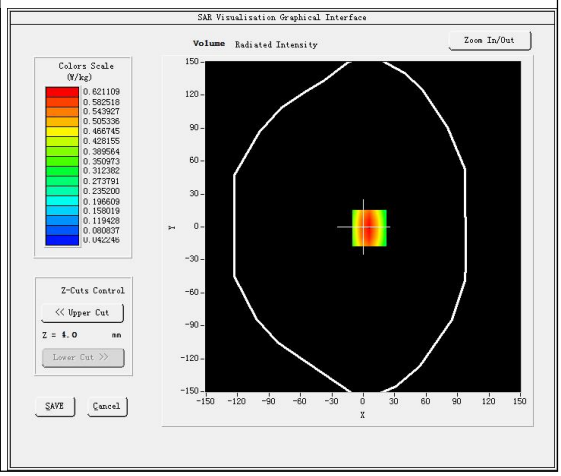
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Laboratory: AGC Lab **Date: Jul. 22, 2024**
System Check Head 835 MHz
DUT: Dipole 835 MHz Type: SID 835
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=1.89
Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ=0.89 mho/m; εr =42.57; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.1, Liquid temperature (℃): 20.9

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

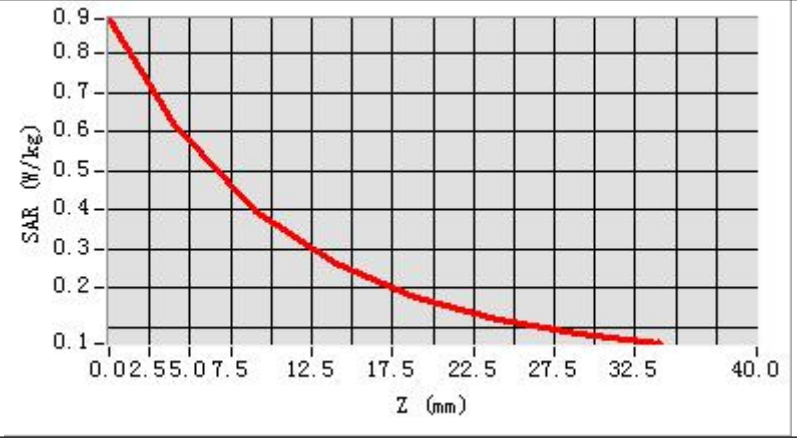
SURFACE SAR	VOLUME SAR
	

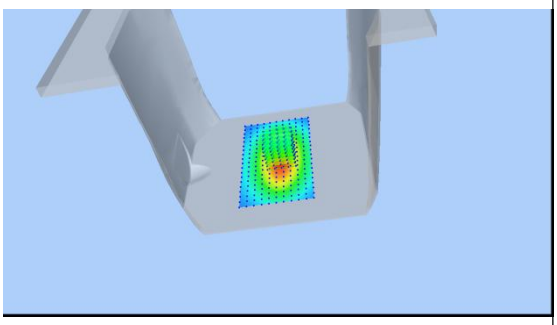
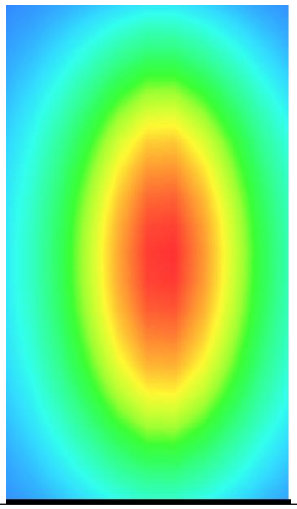
Maximum location: X=6.00, Y=-1.00
SAR Peak: 0.88 W/kg

SAR 10g (W/Kg)	0.371544
SAR 1g (W/Kg)	0.590692

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8820	0.6137	0.3917	0.2598	0.1734	0.1174	0.0807



3D screen shot	Hot spot position
	

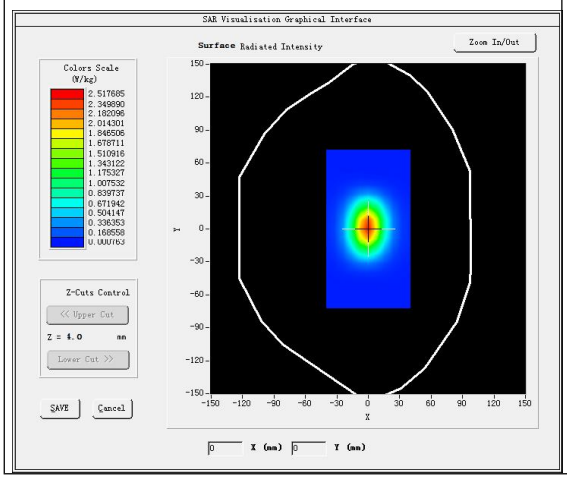
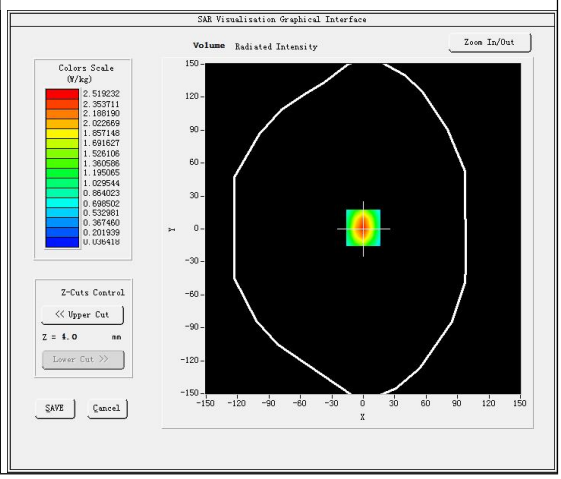
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Laboratory: AGC Lab **Date: Jul. 20, 2024**
System Check Head 1750MHz
DUT: Dipole 1800 MHz; Type: SID 1800
Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=2.28
Frequency: 1750 MHz; Medium parameters used: f = 1750MHz; σ=1.34 mho/m; εr =40.08; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.5

SATIMO Configuration:
Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 1750MHz **Head/Area Scan:** Measurement grid: dx=8mm,dy=8mm
Configuration/System Check 1750MHz **Head/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm

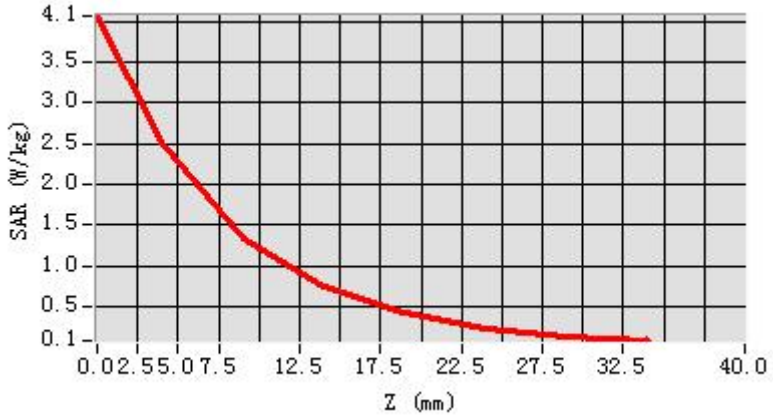
SURFACE SAR	VOLUME SAR
	

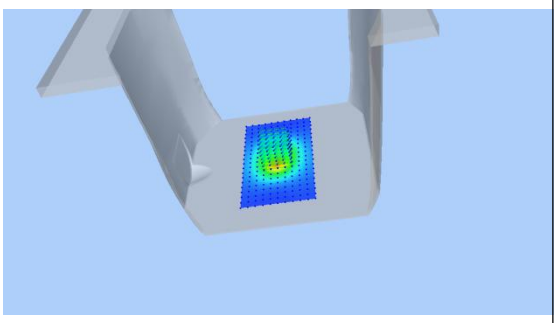
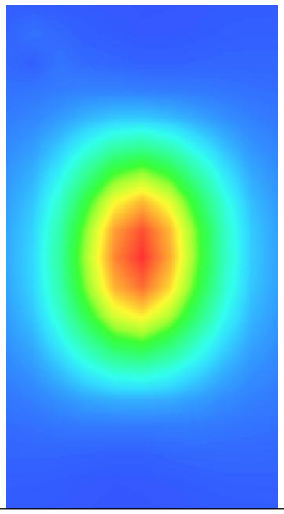
Maximum location: X=0.00, Y=1.00
SAR Peak: 4.03 W/kg

SAR 10g (W/Kg)	1.216406
SAR 1g (W/Kg)	2.343380

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.0787	2.5239	1.3472	0.7455	0.4161	0.2349	0.1377



3D screen shot	Hot spot position
	

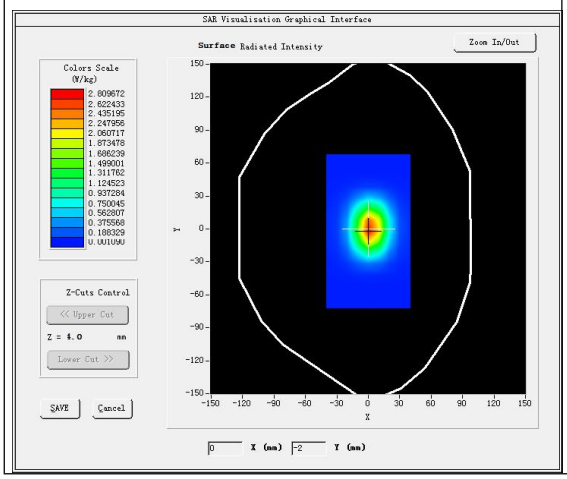
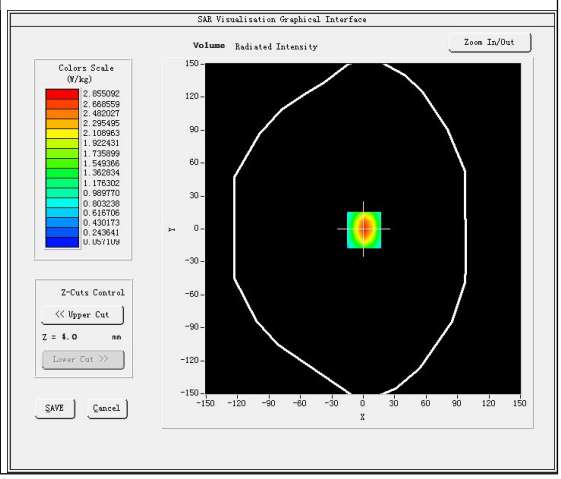
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Laboratory: AGC Lab **Date: Jul. 21, 2024**
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=2.08
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ=1.38 mho/m; εr =39.24; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.3, Liquid temperature (℃): 21.0

SATIMO Configuration:
Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

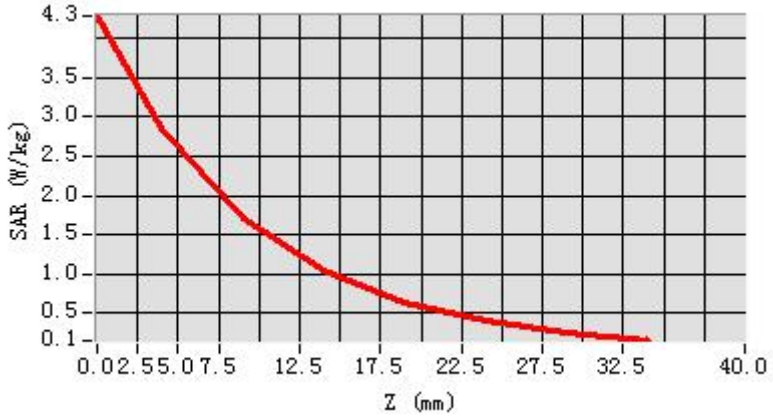
SURFACE SAR	VOLUME SAR
	

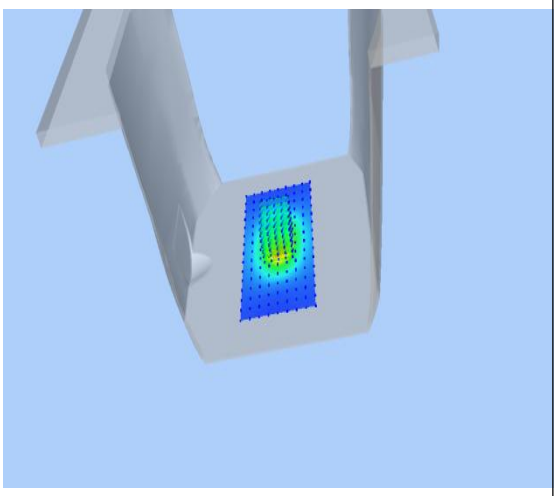
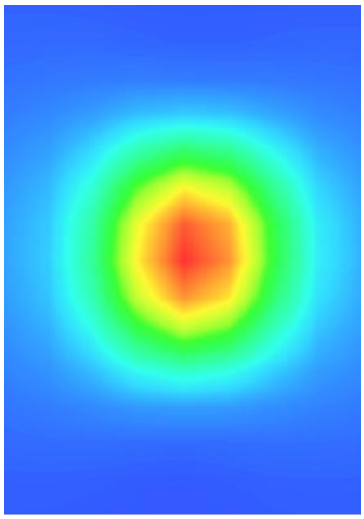
Maximum location: X=1.00, Y=-1.00
SAR Peak: 4.17 W/kg

SAR 10g (W/Kg)	1.351943
SAR 1g (W/Kg)	2.641668

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.2840	2.8557	1.6953	1.0492	0.6385	0.3908	0.2447



3D screen shot	Hot spot position
	

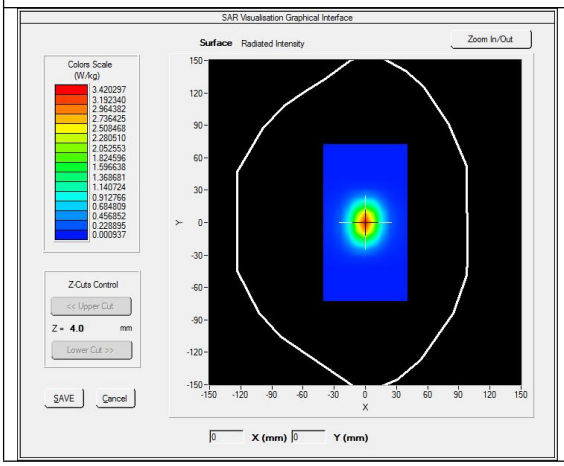
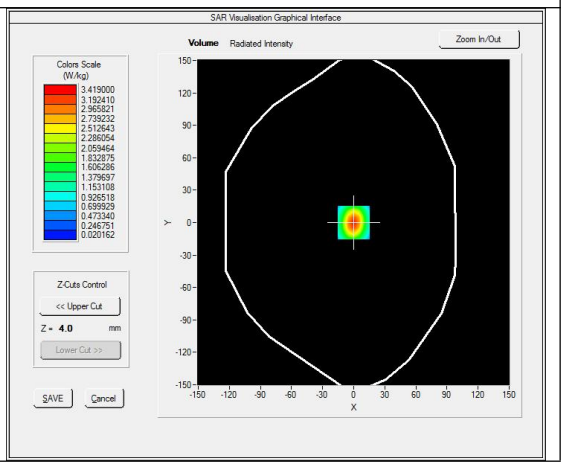
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Laboratory: AGC Lab **Date: Aug. 16, 2024**
System Check Head 2300 MHz
DUT: Dipole 2300 MHz Type: SID 2300
Communication System CW; Communication System Band: D2300 (2300.0 MHz); Duty Cycle: 1:1; Conv.F=2.20
Frequency: 2300 MHz; Medium parameters used: f = 2300 MHz; σ=1.69 mho/m; εr =38.44; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 19.8, Liquid temperature (℃): 19.5

SATIMO Configuration

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 2300MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 2300MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

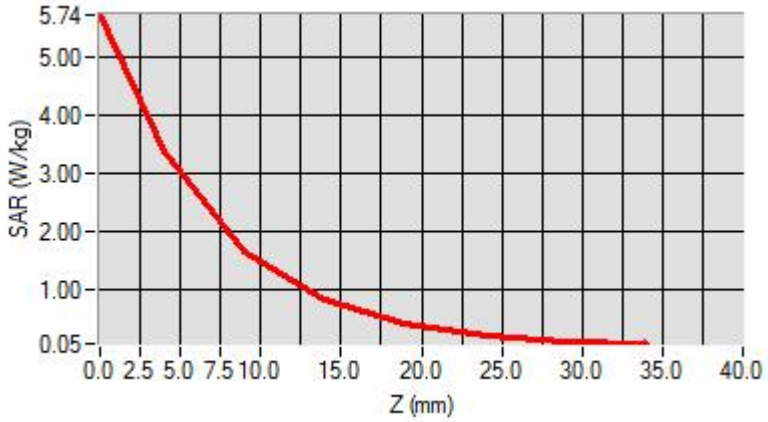
SURFACE SAR	VOLUME SAR
	

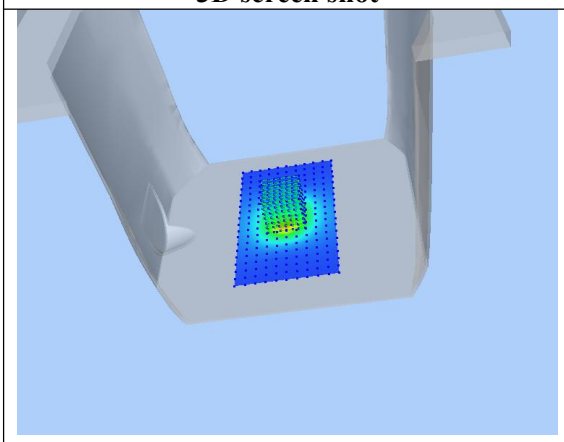
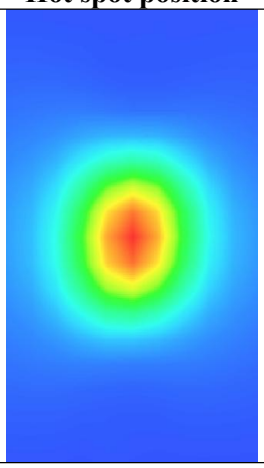
Maximum location: X=0.00, Y=0.00
SAR Peak: 5.75 W/kg

SAR 10g (W/Kg)	1.439985
SAR 1g (W/Kg)	3.117208

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	5.7633	3.4171	1.6650	0.8245	0.4179	0.2090	0.1096



3D screen shot	Hot spot position
	

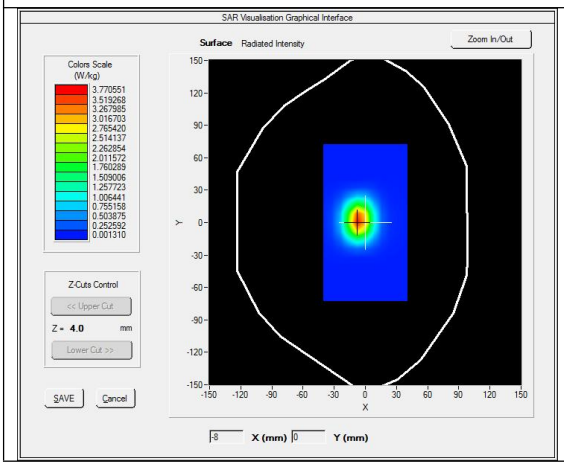
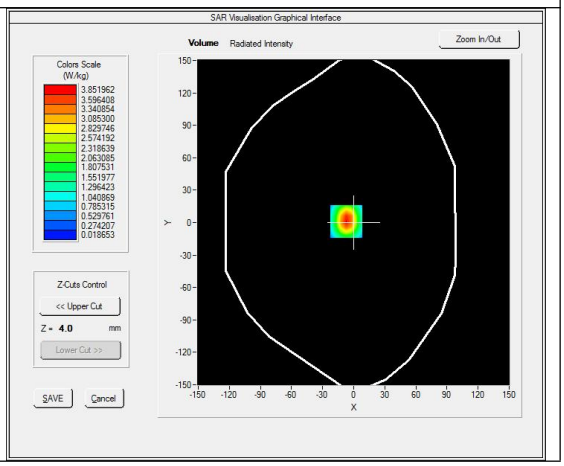
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Laboratory: AGC Lab **Date: Jul. 24, 2024**
System Check Head 2450 MHz
DUT: Dipole 2450 MHz Type: SID 2450
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.16
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ=1.83 mho/m; εr =38.99; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):20.8, Liquid temperature (℃): 20.6

SATIMO Configuration

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 2450MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 2450MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

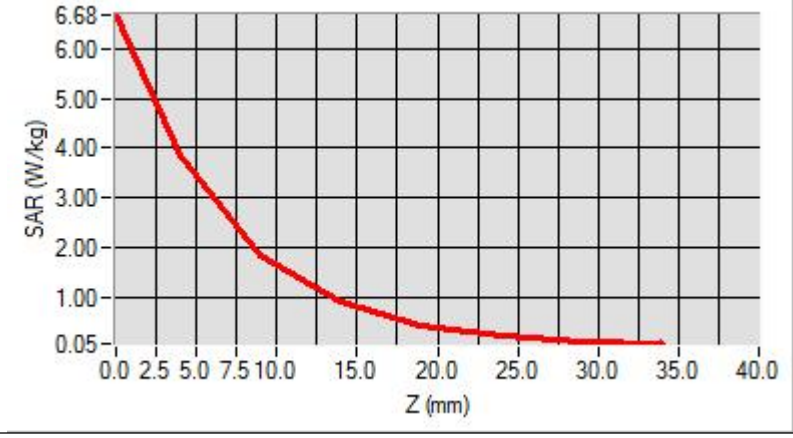
SURFACE SAR	VOLUME SAR
	

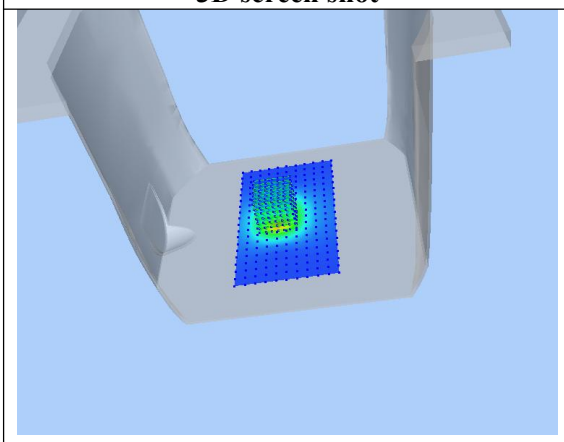
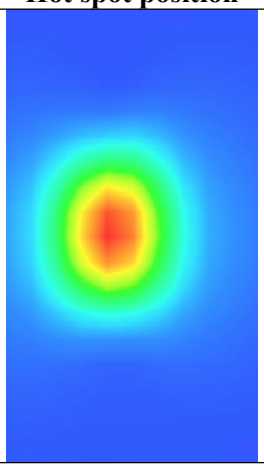
Maximum location: X=-7.00, Y=1.00
SAR Peak: 6.61 W/kg

SAR 10g (W/Kg)	1.588016
SAR 1g (W/Kg)	3.528195

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.6791	3.8535	1.8127	0.8849	0.4340	0.2150	0.1083



3D screen shot	Hot spot position
	

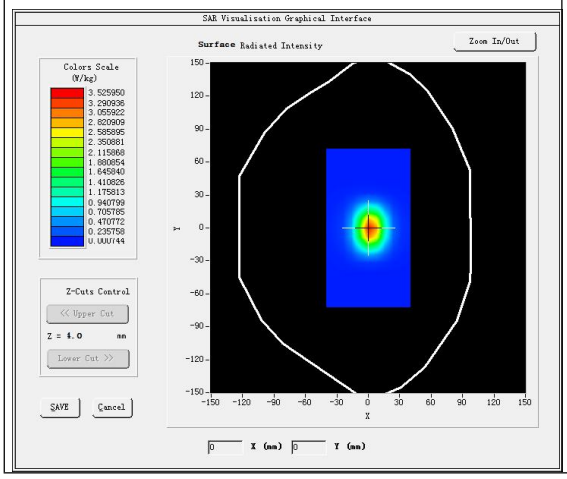
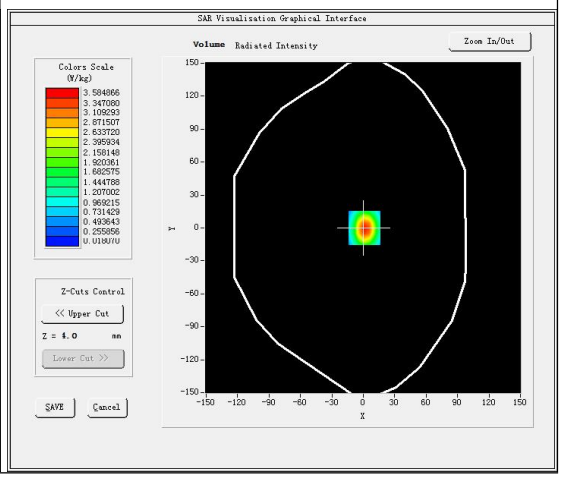
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Laboratory: AGC Lab **Date: Jul. 25, 2024**
System Check Head 2600MHz
DUT: Dipole 2600 MHz; Type: SID 2600
Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=2.06
Frequency:2600 MHz; Medium parameters used: f = 2600 MHz; σ=1.92 mho/m; εr =38.90; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 20.1, Liquid temperature (℃): 19.9

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 2600 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm
Configuration/System Check 2600 Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

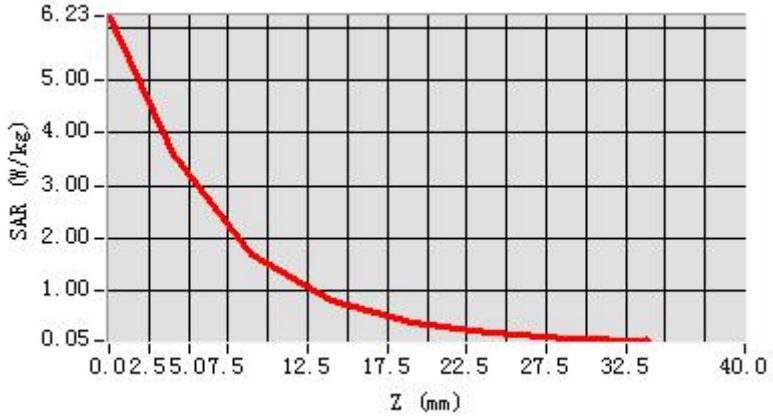
SURFACE SAR	VOLUME SAR
	

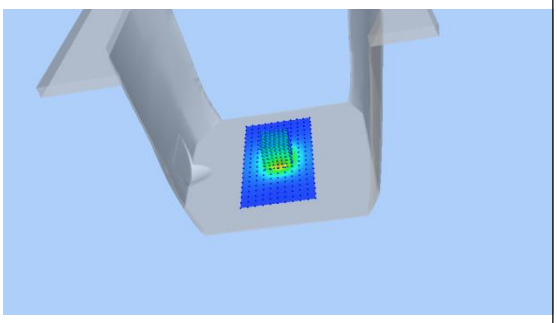
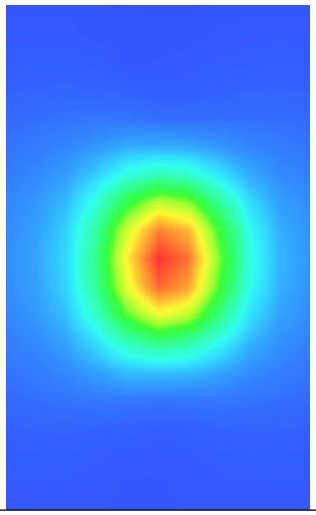
Maximum location: X=1.00, Y=0.00
SAR Peak: 6.19 W/kg

SAR 10g (W/Kg)	1.484359
SAR 1g (W/Kg)	3.315071

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.2248	3.5806	1.6769	0.8112	0.3949	0.1952	0.0966



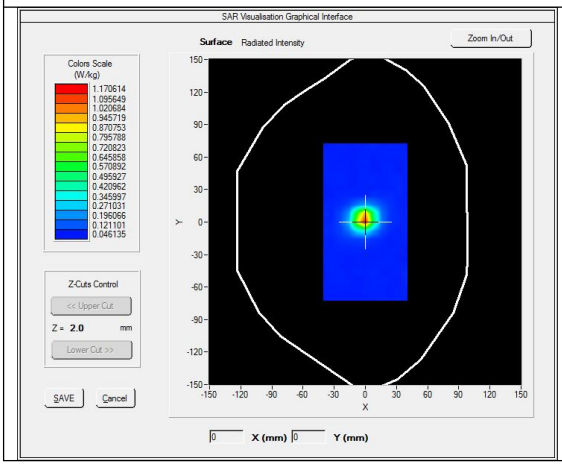
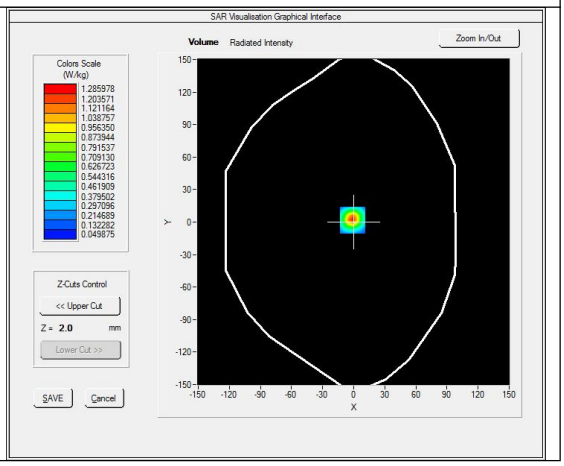
3D screen shot	Hot spot position
	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Laboratory: AGC Lab **Date: Jul. 29, 2024**
System Check 5200 MHz
DUT: Dipole 5000MHz Type: SID5500
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.53
Frequency: 5200 MHz; Medium parameters used: f = 5200 MHz; σ =4.60 mho/m; εr =36.38; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.5

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 5200 MHz **Body/Area Scan:** Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5200 MHz **Body/Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm

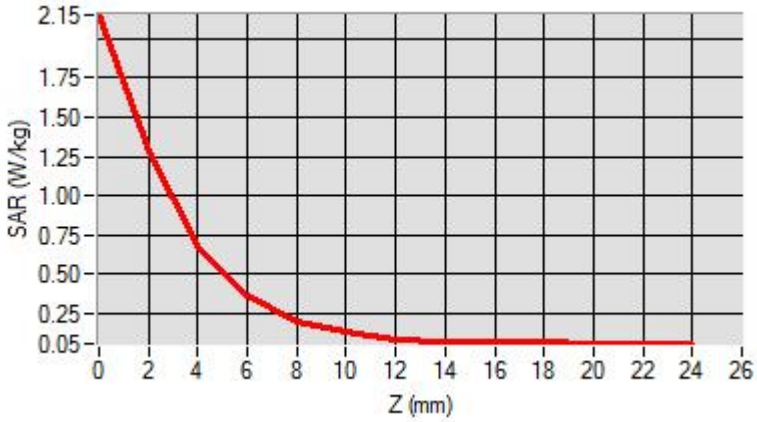
SURFACE SAR	VOLUME SAR
	

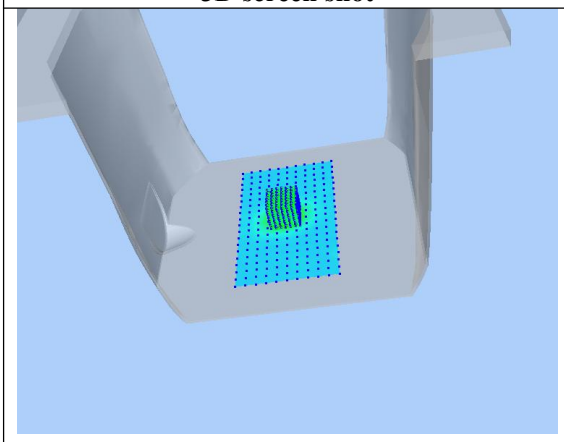
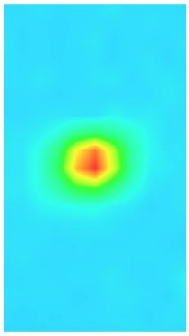
Maximum location: X=-1.00, Y=2.00
SAR Peak: 2.26 W/kg

SAR 10g (W/Kg)	0.235944
SAR 1g (W/Kg)	0.686615

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.1520	1.2860	0.6860	0.3663	0.1899	0.1272	0.0847	0.0685	0.0647	0.0634	0.0542	0.0544



3D screen shot	Hot spot position
	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

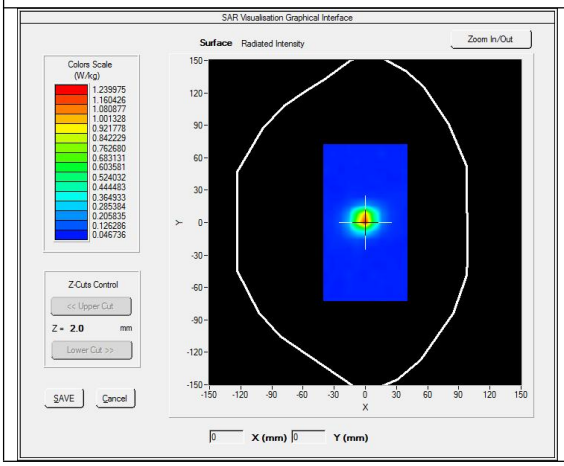
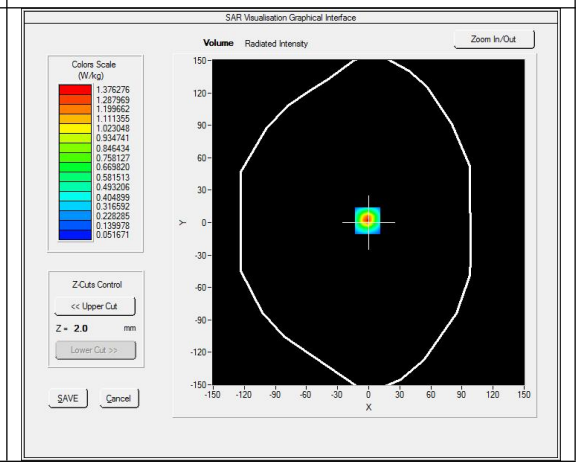
Test Laboratory: AGC Lab **Date: Jul. 30, 2024**

System Check Head 5300 MHz
DUT: Dipole 5000MHz Type: SID5000
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.53
Frequency: 5300 MHz; Medium parameters used: f = 5300 MHz; σ =4.64 mho/m; εr =35.48; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (℃): 21.4, Liquid temperature (℃): 21.1

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 5300 MHz **Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5300 MHz **Head/Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm

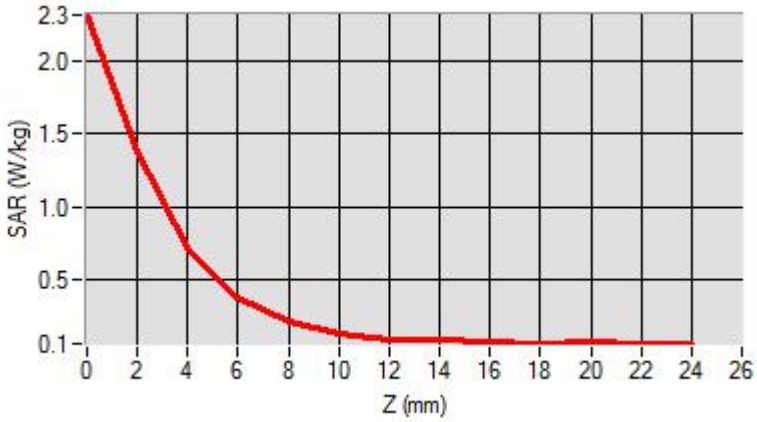
SURFACE SAR	VOLUME SAR
	

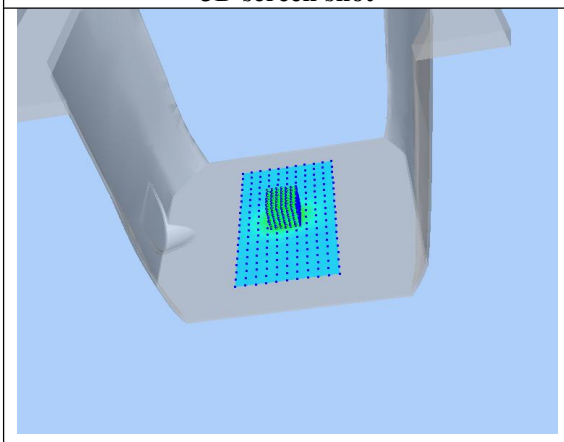
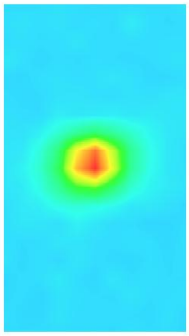
Maximum location: X=-1.00, Y=2.00
SAR Peak: 2.44 W/kg

SAR 10g (W/Kg)	0.250092
SAR 1g (W/Kg)	0.732067

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.3201	1.3763	0.7138	0.3772	0.2012	0.1244	0.0890	0.0785	0.0684	0.0564	0.0644	0.0574



3D screen shot	Hot spot position
	

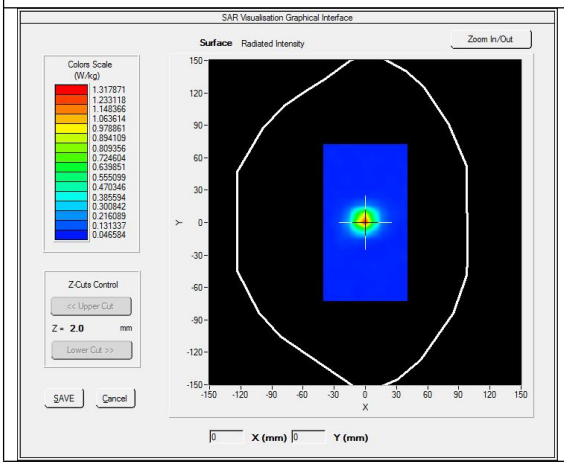
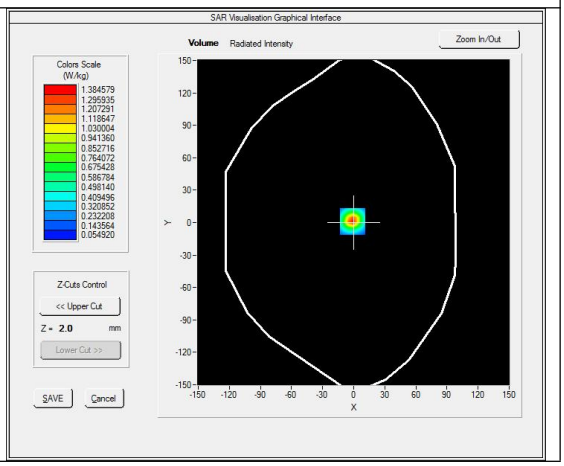
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Laboratory: AGC Lab **Date: Aug. 09, 2024**
System Check Head 5600 MHz
DUT: Dipole 5000MHz Type: SID5000
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.24
Frequency: 5600 MHz; Medium parameters used: f = 5600 MHz; σ =4.95 mho/m; εr =35.08; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (℃): 21.3, Liquid temperature (℃): 20.9

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 5600 MHz **Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5600 MHz **Head/Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm

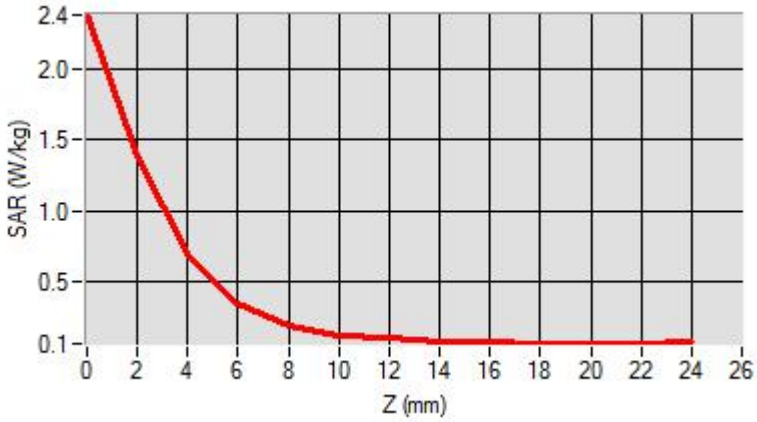
SURFACE SAR	VOLUME SAR
	

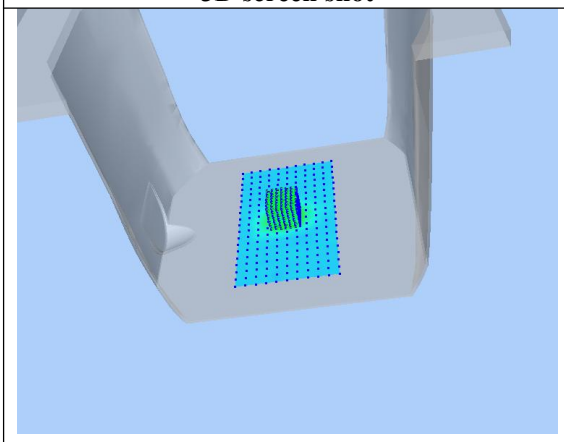
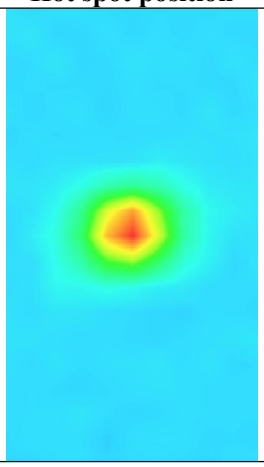
Maximum location: X=-1.00, Y=1.00
SAR Peak: 2.52 W/kg

SAR 10g (W/Kg)	0.256561
SAR 1g (W/Kg)	0.743379

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.3789	1.3846	0.7013	0.3510	0.1899	0.1201	0.0975	0.0758	0.0693	0.0637	0.0648	0.0616



3D screen shot	Hot spot position
	

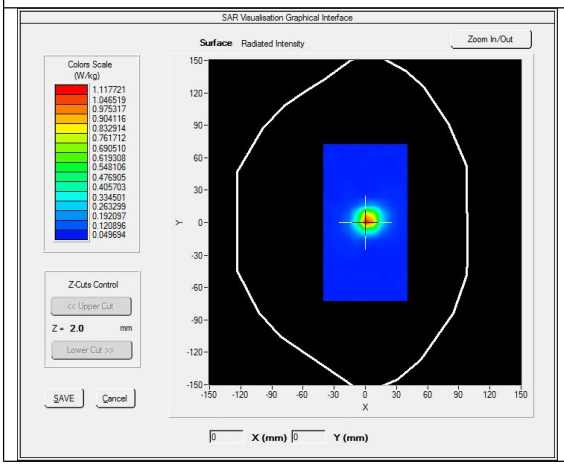
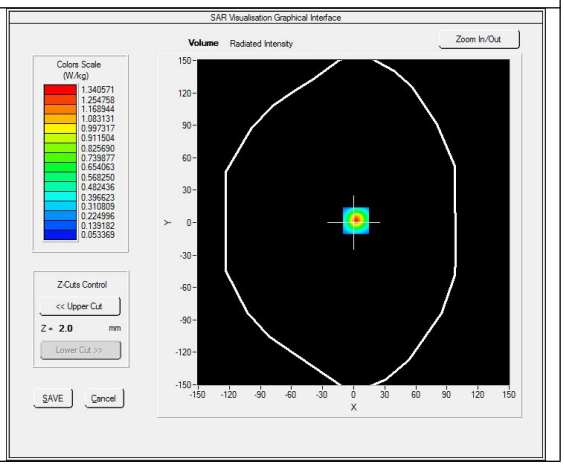
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Laboratory: AGC Lab **Date: Jul. 31, 2024**
System Check Head 5800 MHz
DUT: Dipole 5000MHz Type: SID5500
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.37
Frequency: 5800 MHz; Medium parameters used: f = 5800 MHz; σ =5.35 mho/m; εr =36.12; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 5800 MHz **Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5800 MHz **Head/Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm

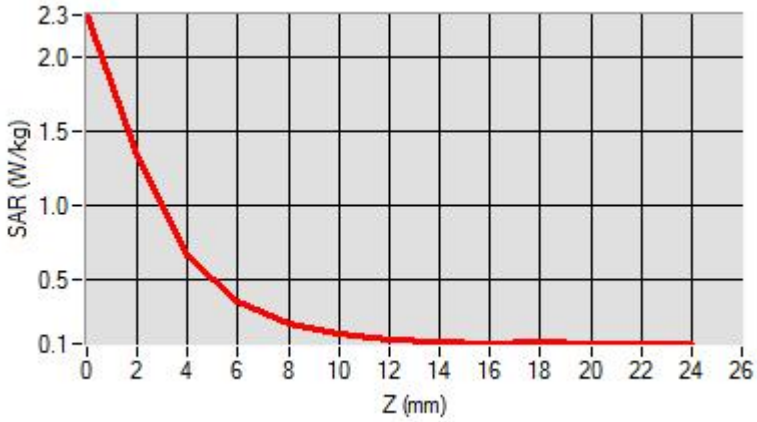
SURFACE SAR	VOLUME SAR
	

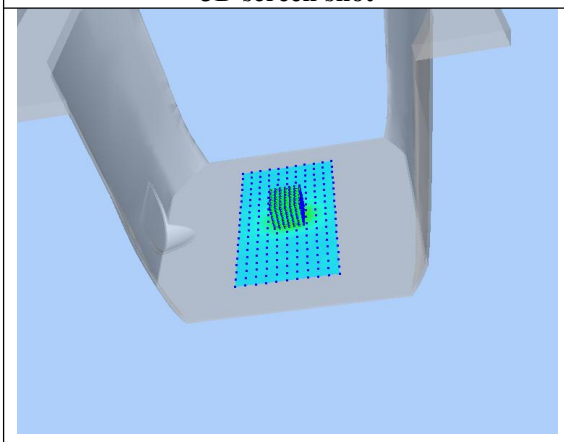
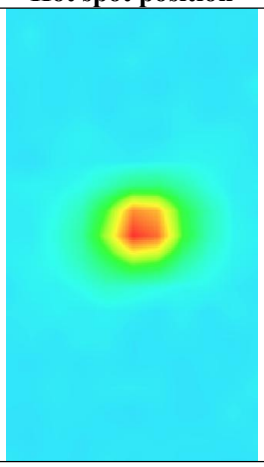
Maximum location: X=2.00, Y=2.00
SAR Peak: 2.40 W/kg

SAR 10g (W/Kg)	0.241746
SAR 1g (W/Kg)	0.702453

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.2898	1.3406	0.6553	0.3497	0.1904	0.1235	0.0912	0.0752	0.0631	0.0688	0.0618	0.0590



3D screen shot	Hot spot position
	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab **Date: Jul. 22, 2024**
GSM 850 High- Touch-Right <SIM 1>
DUT: Mobile phone; Type: S7

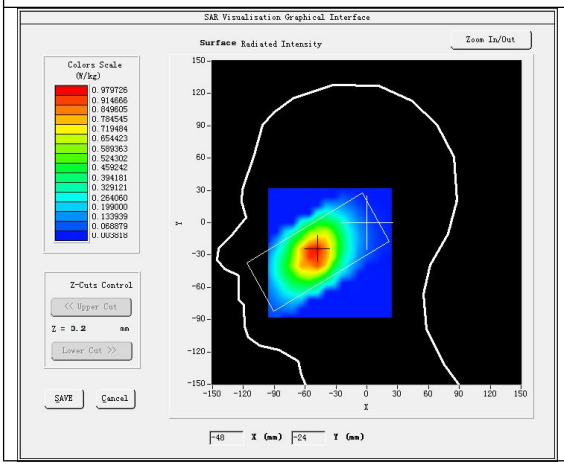
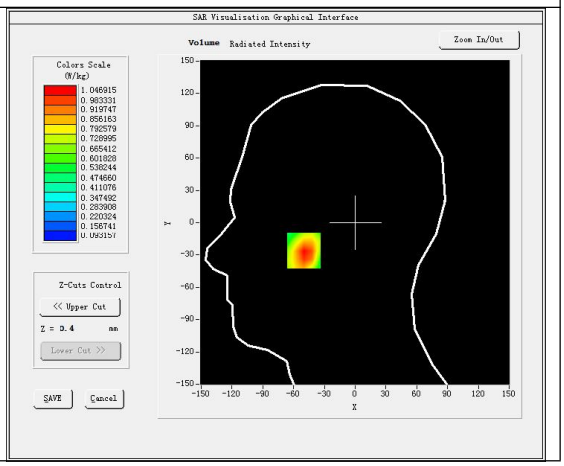
Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.89; Frequency: 848.8 MHz; Medium parameters used: f = 835 MHz; σ= 0.92 mho/m; εr = 40.27; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.1, Liquid temperature (℃): 20.9

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GSM 850 High -Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GSM 850 High -Touch-Right/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	GSM 850
Channels	High
Signal	TDMA (Crest factor: 8.0)

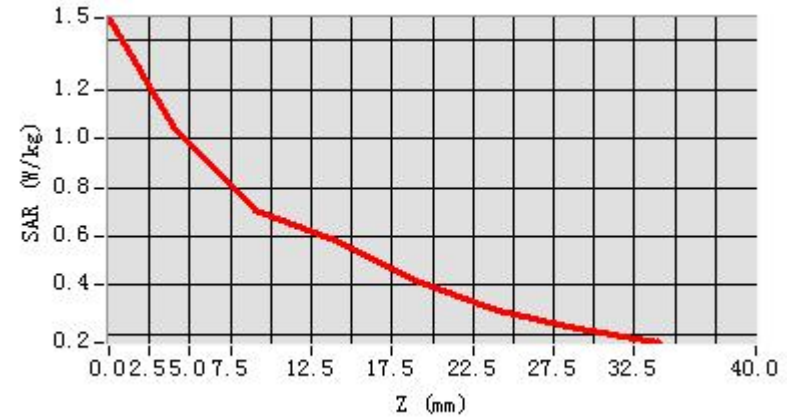
SURFACE SAR	VOLUME SAR
	

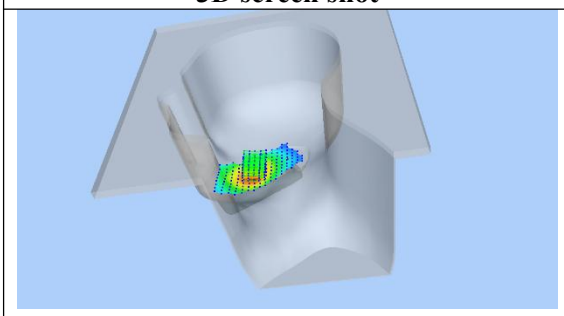
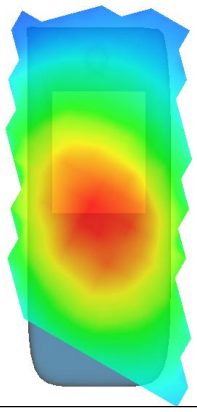
Maximum location: X=-50.00, Y=-26.00
SAR Peak: 1.54 W/kg

SAR 10g (W/Kg)	0.663642
SAR 1g (W/Kg)	1.029044

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.4932	1.0469	0.7073	0.5796	0.4227	0.2971	0.2216



3D screen shot	Hot spot position
	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Laboratory: AGC Lab **Date: Jul. 22, 2024**
GSM 850 High - Body- Back (MS)<SIM 1>
DUT: Mobile phone; Type: S7

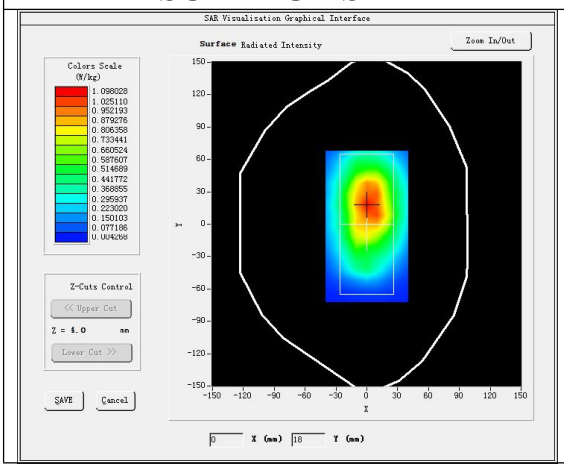
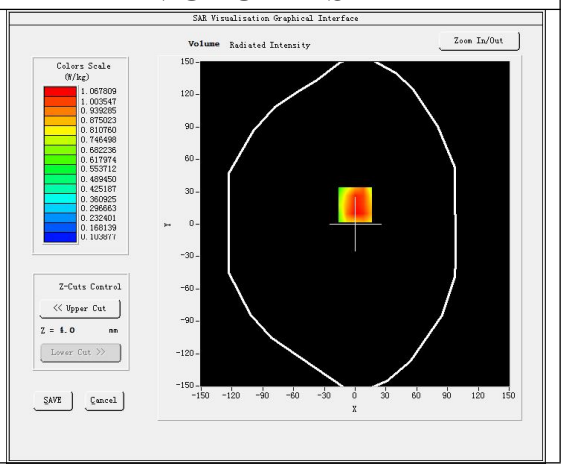
Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.89; Frequency: 848.8 MHz; Medium parameters used: f = 835 MHz; σ= 0.92 mho/m; εr = 40.27; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.1, Liquid temperature (℃): 20.9

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GSM 850 High -Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GSM 850 High -Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	GSM 850
Channels	High
Signal	TDMA (Crest factor: 8.0)

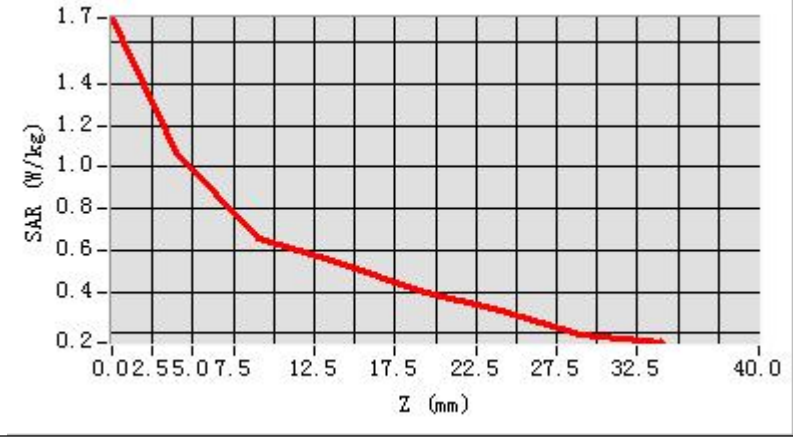
SURFACE SAR	VOLUME SAR
	

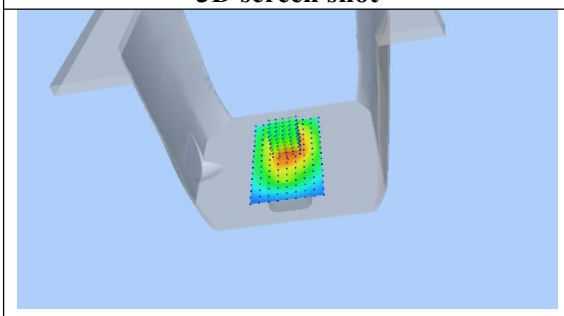
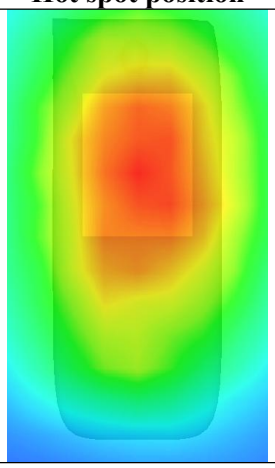
Maximum location: X=0.00, Y=18.00
SAR Peak: 1.63 W/kg

SAR 10g (W/Kg)	0.692161
SAR 1g (W/Kg)	1.049884

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.7158	1.0678	0.6583	0.5454	0.4088	0.3057	0.1952



3D screen shot	Hot spot position
	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Laboratory: AGC Lab **Date: Jul. 22, 2024**
GPRS 850 Mid- Body- Back (4up)
DUT: Mobile phone; Type: S7

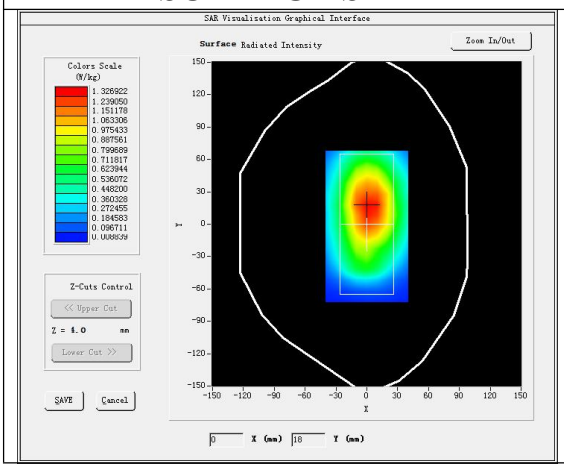
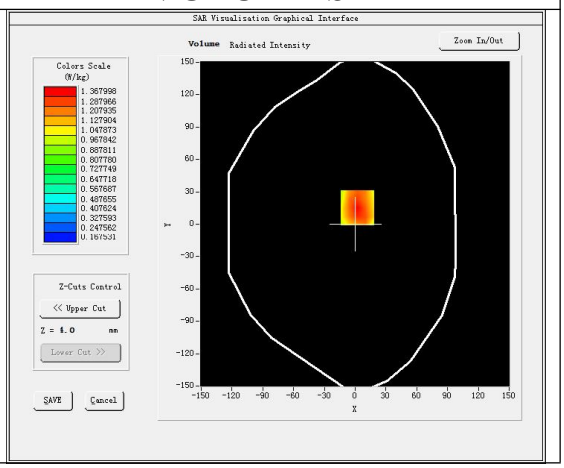
Communication System: GPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1; Conv.F=1.89; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ= 0.90 mho/m; εr = 41.86; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.1, Liquid temperature (℃): 20.9

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 850 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 850 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 2.0)

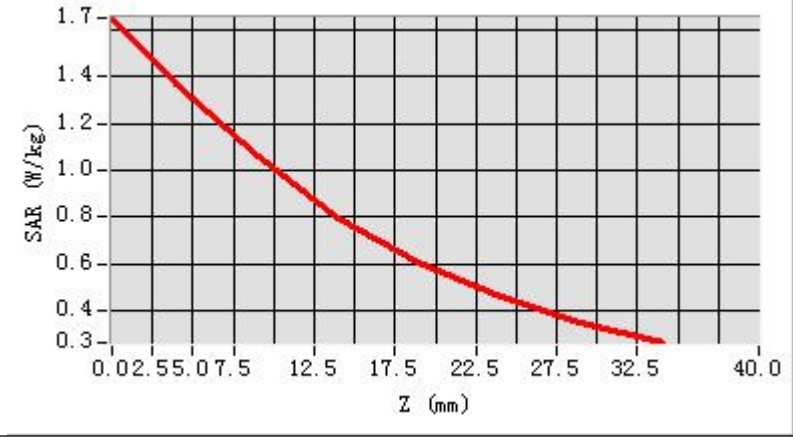
SURFACE SAR	VOLUME SAR
	

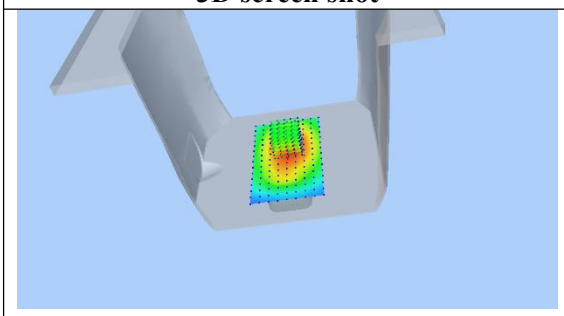
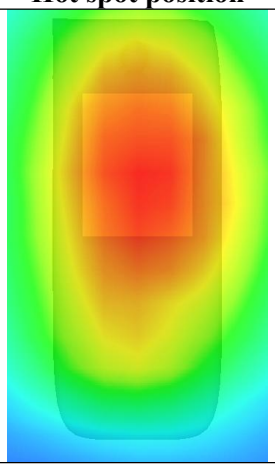
Maximum location: X=2.00, Y=15.00
SAR Peak: 1.72 W/kg

SAR 10g (W/Kg)	0.938423
SAR 1g (W/Kg)	1.303107

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.6508	1.3680	1.0598	0.7918	0.6027	0.4567	0.3485



3D screen shot	Hot spot position
	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Laboratory: AGC Lab **Date: Jul. 21, 2024**
PCS 1900 Mid-Touch-Right <SIM 1>
DUT: Mobile phone; Type: S7

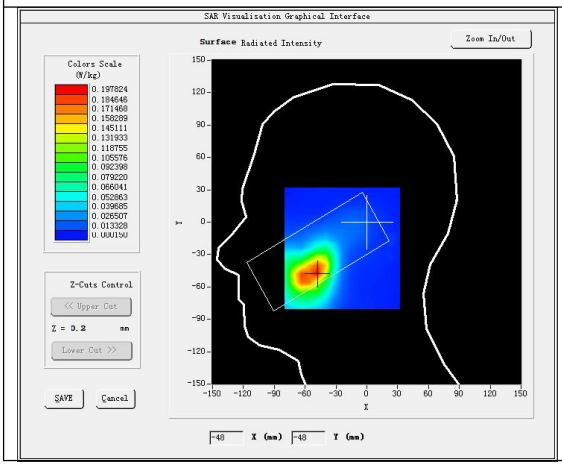
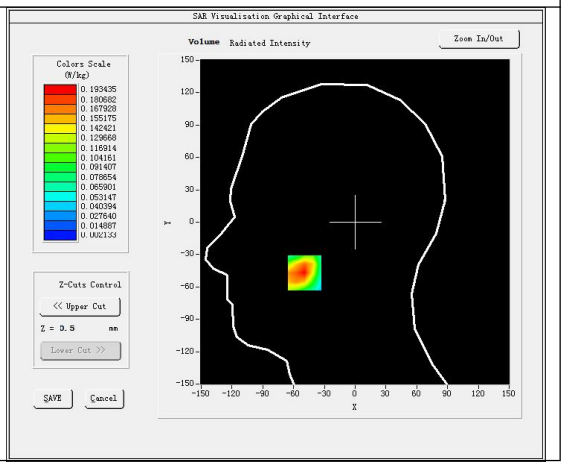
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=2.08; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.35 mho/m; εr =40.31; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.3, Liquid temperature (℃): 21.0

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/PCS1900 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/PCS1900 Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

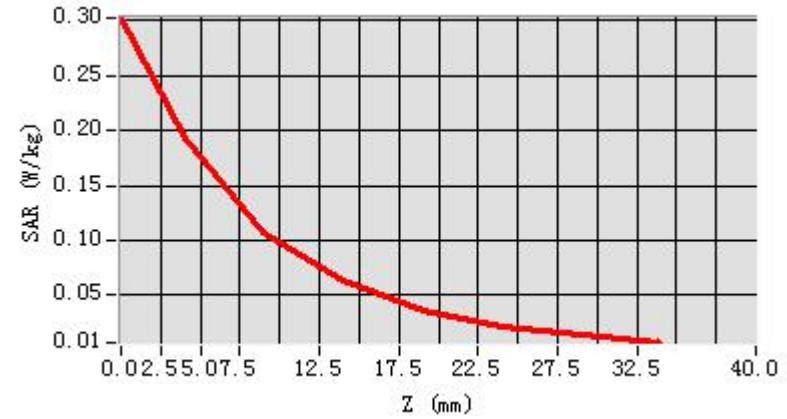
SURFACE SAR	VOLUME SAR
	

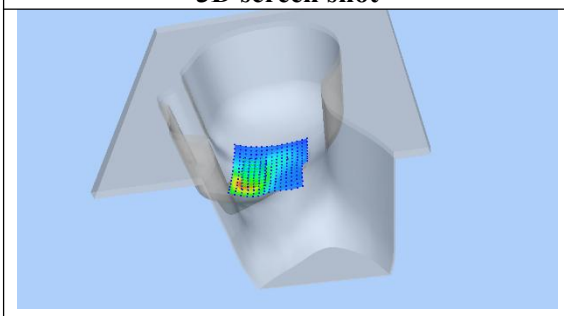
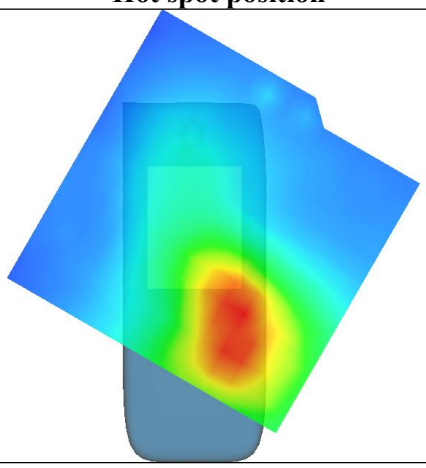
Maximum location: X=-49.00, Y=-47.00
SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.099139
SAR 1g (W/Kg)	0.182694

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3026	0.1934	0.1074	0.0639	0.0367	0.0214	0.0137



3D screen shot	Hot spot position
	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Laboratory: AGC Lab **Date: Jul. 21, 2024**
PCS 1900 Mid-Body-Back (MS)<SIM 1>
DUT: Mobile phone; Type: S7

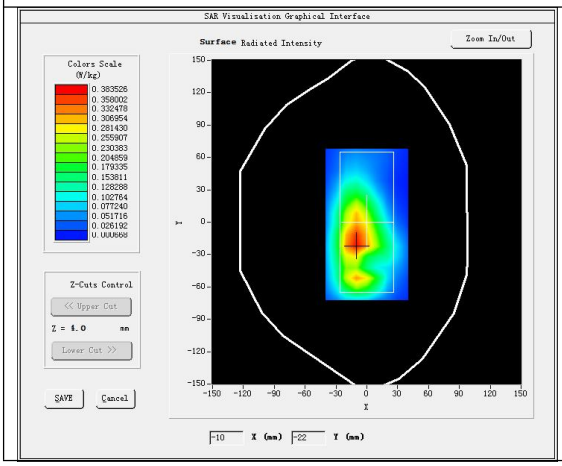
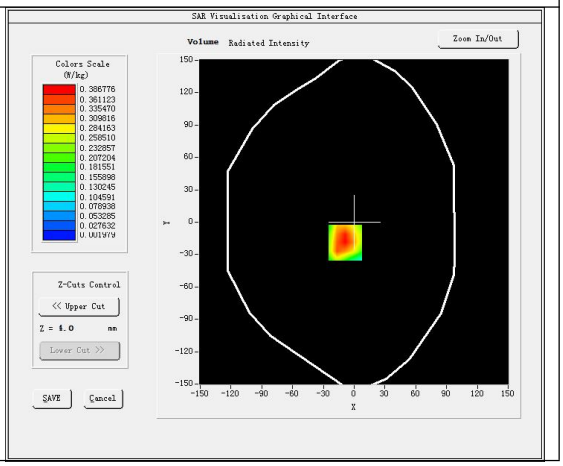
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=2.08; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.35 mho/m; εr =40.31; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.3, Liquid temperature (℃): 21.0

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/PCS1900 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/PCS1900 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

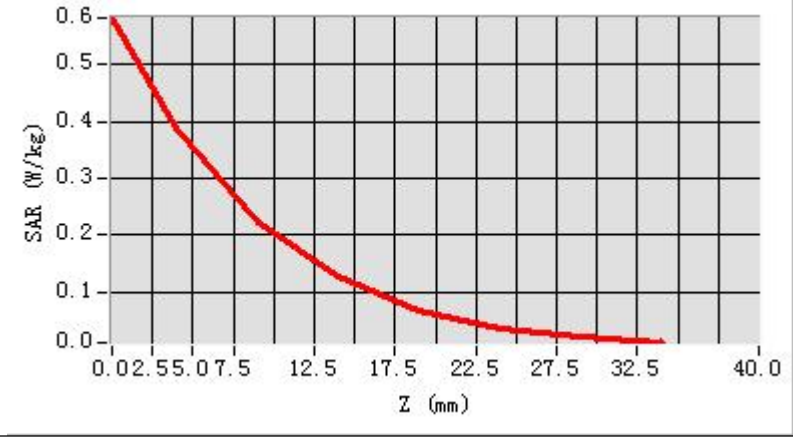
SURFACE SAR	VOLUME SAR
	

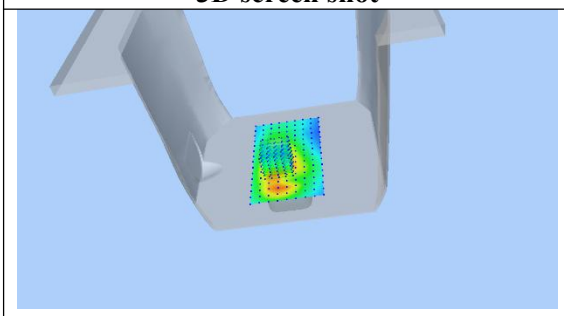
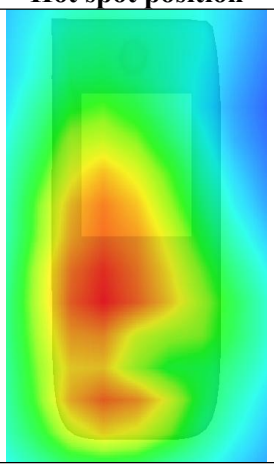
Maximum location: X=-9.00, Y=-19.00
SAR Peak: 0.60 W/kg

SAR 10g (W/Kg)	0.202699
SAR 1g (W/Kg)	0.364262

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5828	0.3868	0.2223	0.1253	0.0666	0.0362	0.0190



3D screen shot	Hot spot position
	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Laboratory: AGC Lab **Date: Jul. 21, 2024**
GPRS 1900 Mid-Body-Back (2up)
DUT: Mobile phone; Type: S7

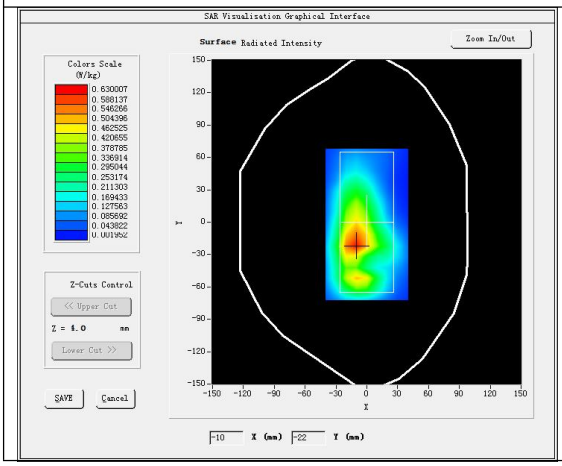
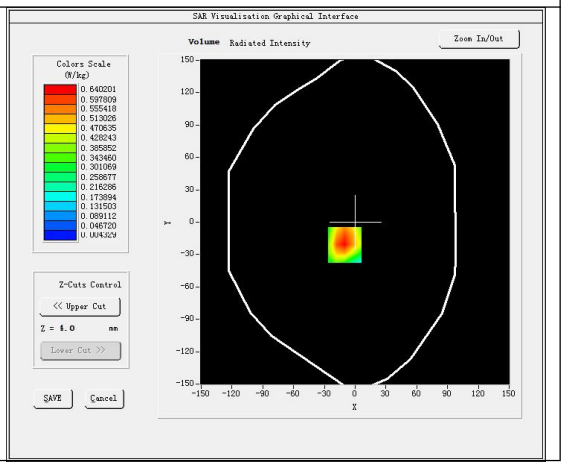
Communication System: GPRS-2Slot; Communication System Band: PCS 1900; Duty Cycle: 1:4.2; Conv.F=2.08; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.35 mho/m; εr =40.31; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.3, Liquid temperature (℃): 21.0

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS1900 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS1900 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 4.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-10.00, Y=-21.00
SAR Peak: 1.03 W/kg

SAR 10g (W/Kg)	0.333061
SAR 1g (W/Kg)	0.614529

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.