SAR Test Report

Report No.: AGC08217200201FH01

FCC ID	:	2AVYL-HEROSP001
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	LTE smartphone
BRAND NAME	:	N/A
MODEL NAME	:	HEROSP001, UW5008KLTE
APPLICANT	:	Shenzhen Eternity Technology Co., Ltd.
DATE OF ISSUE	:	May 22,2020
STANDARD(S)	:	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093:2013 IEEE C95.1TM:2005
REPORT VERSION	:	V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 22,2020	Valid	Initial Release

Test Report

Applicant Name	Shenzhen Eternity Technology Co., Ltd.
Applicant Address	Building A2, YingZhan Industrial Park, LongTian Street, PingShan, ShenZhen, China
Manufacturer Name	Shenzhen Eternity Technology Co., Ltd.
Manufacturer Address	Building A2, YingZhan Industrial Park, LongTian Street, PingShan, ShenZhen, China
Factory Name	Shenzhen Eternity Technology Co., Ltd.
Factory Address	Building A2, YingZhan Industrial Park, LongTian Street, PingShan, ShenZhen, China
Product Designation	LTE smartphone
Sample Number	200302047
Brand Name	N/A
Model Name	HEROSP001, UW5008KLTE
Different Description	All the models are the same, only different in model names.
EUT Voltage	DC3.7V by battery
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093:2013 IEEE C95.1TM:2005
Test Date	Mar. 16,2020 to May 22,2020
Report Template	AGCRT-US-4G/SAR (2018-01-01)

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

Prepared By

Jack Gui (Project Engineer) May 22,2020

Reviewed By

Angela Li (Reviewer) May 22,2020

Approved By

Forrest Lei
(Authorized Officer) May 22,2020

TABLE OF CONTENTS

1. SUMMARY OF MAXIMUM SAR VALUE 5

2. GENERAL INFORMATION 6

2.1. EUT DESCRIPTION 6

3. SAR MEASUREMENT SYSTEM 9

3.1. THE SATIMO SYSTEM USED FOR PERFORMING COMPLIANCE TESTS CONSISTS OF FOLLOWING ITEMS 9
3.2. COMOSAR E-FIELD PROBE 10
3.3. ROBOT 11
3.4. VIDEO POSITIONING SYSTEM 11
3.5. DEVICE HOLDER 12
3.6. SAM TWIN PHANTOM 12

4. SAR MEASUREMENT PROCEDURE 13

4.1. SPECIFIC ABSORPTION RATE (SAR) 13
4.2. SAR MEASUREMENT PROCEDURE 14
4.3. RF EXPOSURE CONDITIONS 16

5. TISSUE SIMULATING LIQUID 19

5.1. THE COMPOSITION OF THE TISSUE SIMULATING LIQUID 19
5.2. TISSUE DIELECTRIC PARAMETERS FOR HEAD AND BODY PHANTOMS 20
5.3. TISSUE CALIBRATION RESULT 21

6. SAR SYSTEM CHECK PROCEDURE 26

6.1. SAR SYSTEM CHECK PROCEDURES 26
6.2. SAR SYSTEM CHECK 27

7. EUT TEST POSITION 29

7.1. DEFINE TWO IMAGINARY LINES ON THE HANDSET 29
7.2. CHEEK POSITION 30
7.3. TILT POSITION 30
7.4. BODY WORN POSITION 31

8. SAR EXPOSURE LIMITS 32

9. TEST FACILITY 33

10. TEST EQUIPMENT LIST 34

11. MEASUREMENT UNCERTAINTY 35

12. CONDUCTED POWER MEASUREMENT 41

13. TEST RESULTS 81

13.1. SAR TEST RESULTS SUMMARY 81

APPENDIX A. SAR SYSTEM CHECK DATA 179

APPENDIX B. SAR MEASUREMENT DATA 215

APPENDIX C. TEST SETUP PHOTOGRAPHS 379

APPENDIX D. CALIBRATION DATA 388

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	
GSM 850	0.480	1.148	1.6
PCS 1900	0.536	1.223	
UMTS Band II	0.876	1.276	
UMTS Band IV	0.780	1.286	
UMTS Band V	0.545	0.683	
CDMA BAND 0	0.301	0.523	
CDMA BAND 1	0.428	0.505	
CDMA BAND 10	0.367	0.332	
LTE Band 2-1RB	0.606	0.953	
LTE Band 2-50%RB	0.679	1.153	
LTE Band 4-1RB	0.423	0.963	
LTE Band 4-50%RB	0.489	0.791	
LTE Band 5-1RB	0.390	0.476	
LTE Band 5-50%RB	0.522	0.656	
LTE Band 12-1RB	0.323	0.500	
LTE Band 12-50%RB	0.524	0.733	
LTE Band 13-1RB	0.583	0.658	
LTE Band 13-50%RB	0.489	0.605	
LTE Band 17-1RB	0.380	0.547	
LTE Band 17-50%RB	0.700	0.797	
LTE Band 25-1RB	0.639	1.029	
LTE Band 25-50%RB	0.737	1.275	
LTE Band 26-1RB	0.909	0.863	
LTE Band 26-38%RB	0.566	0.668	
LTE Band 41-1RB	0.796	0.779	
LTE Band 41-50%RB	0.536	0.774	
LTE Band 66-1RB	0.818	1.413	
LTE Band 66-50%RB	0.568	1.178	
LTE Band 71-1RB	0.529	0.795	
LTE Band 71-50%RB	0.481	0.748	
2.4 GHz WIFI	0.265	0.078	
5.2 GHz WIFI	0.087	0.069	
Simultaneous Reported SAR	1.545		
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 47 CFR Part 2§2.1093:2013; 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

2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Designation	LTE smartphone
Test Model	HEROSP001
Hardware Version	AL_A5L_MB_V10
Software Version	MOLY.LR12A.R3.MP.V88.3.T1
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: 2.2dBi; PCS1900: 0.57dBi
Max. Average Power	GSM850: 32.07dBm; PCS1900: 29.91dBm
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 II: 1850-1910MHz; FDD Band V: 820-850MHz FDD Band IV: 1712.4-1752.6MHz
RX Frequency Range	FDD Band II: 1930-1990MHz; FDD Band V: 869-894MHz FDD Band IV: 2112.4-5152.6MHz
Release Version	Rel-6
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Gain	Band II: 0.57dBii; Band IV: 1.26dBi; Band V: 2.2dBi
Max. Average Power	Band II: 22.57dBm; Band IV: 22.51dBm; Band V: 22.38dBm

EUT Description (Continue)

CDMA	
Support Band	☒ CDMA Band 0 ☒ CDMA Band 1 ☒ CDMA Band 10
Type of modulation	1xRTT; 1XEV-DO REV A
Antenna Gain	CDMA Band 0: 2.2dBii; CDMA Band 1: 0.57dBi; CDMA Band 10: 2.2dBi
Max. Average Power	CDMA Band 0: 24.20dBm; CDMA Band 1: 23.90dBm; CDMA Band 10: 24.30dBm
LTE	
Support Band	☒FDD Band 2 ☒FDD Band 4 ☒FDD Band 5 ☒FDD Band 12 ☒FDD Band 13 ☒FDD Band 17 ☒FDD Band 25 ☒FDD Band 26 ☒TDD Band 41 ☒FDD Band 66 ☒FDD Band 71
TX Frequency Range	Band 2:1850-1910MHz; Band 4:1710-1755MHz;Band 5:824-849MHz; Band 12:699-716MHz; Band 13:777-787MHz;Band 17: 704-716MHz; Band 25: 1850-1915MHz; Band 26: 814-849MHz; Band 41:2496-2690MHz; Band 66:1700-1780MHz; Band 71:663-698MHz
RX Frequency Range	Band 2:1930-1990MHz; Band 4:2110-2155MHz; Band 5:869-894MHz; Band 12: 729-746 MHz; Band 13:746-756MHz; Band 17: 734-746 MHz; Band 25: 1930-1995MHz; Band 26: 859-894MHz;Band 41:2496-2690MHz; Band 66:2110-2200MHz; Band 71:617-652MHz
Release Version	Rel-8
Type of modulation	QPSK, 16QAM
Antenna Gain	Band 2: 0.57dBi; Band 4: 1.26dBi; Band 5: 2.2dBi; Band 12: 0.7dBi; Band 13: -0.05dBi; Band 17: 0.7dBi;Band 25: 0.57dBi;Band 26: 2.2dBi; Band 41: 2.34dBi; Band 66: 2.12dBi; Band 71: -0.12dBi;
Max. Average Power	Band 2: 25.12dBm; Band 4: 24.80dBm; Band 5: 24.14dBm; Band 12:23.96dBm; Band 13: 24.22dBm; Band 17: 23.78dBm; Band 25: 25.22dBm; Band 26: 24.22dBm; Band 41: 24.84dBm; Band 66: 25.21dBm; Band 71: 25.16dBm;
Bluetooth	
Bluetooth Version	☐V2.0 ☐V2.1 ☐V2.1+EDR ☐V3.0 ☐V3.0+HS ☐V4.0 ☒V4.2
Operation Frequency	2402~2480MHz
Type of modulation	☒GFSK ☒Π/4-DQPSK ☒8-DPSK
Peak Power	BR/EDR: 7.759dBm; BLE: 7.583dBm
Antenna Gain	2.84dBi

EUT Description (Continue)

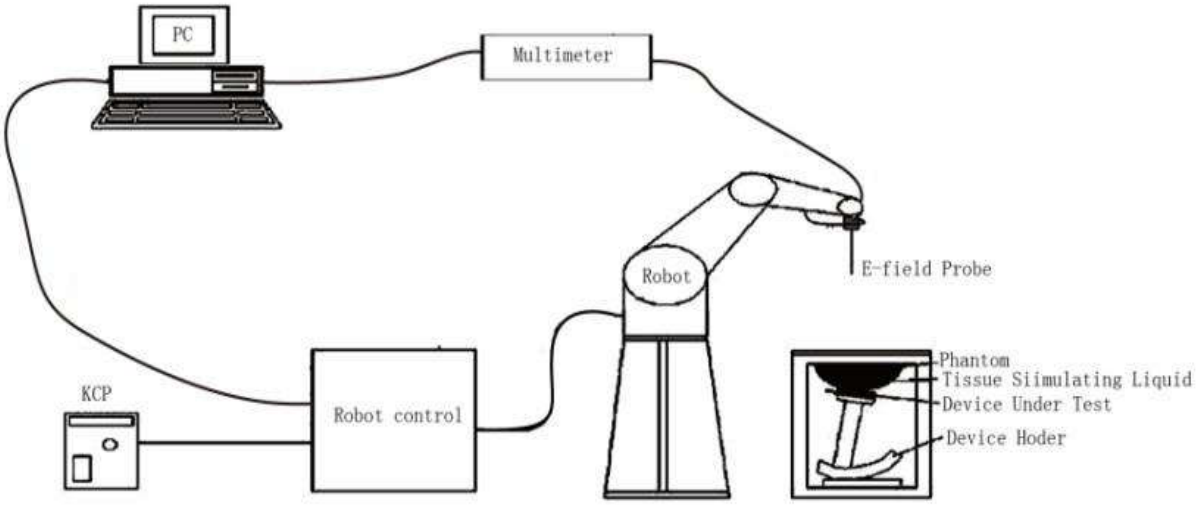
2.4GHz WIFI	
WIFI Specification	☐802.11a ☒802.11b ☒802.11g ☒802.11n(20) ☒802.11n(40)
Operation Frequency	2412~2472MHz
EIRP	11b:15.800dBm,11g:15.182dBm,11n(20):14.945dBm,11n(40):13.913dBm
5GHz WIFI	
WIFI Specification	☒802.11a ☒802.11n20 ☒802.11n40
Operation Frequency	5.150GHz～5.250GHz
Type of modulation	OFDM, BPSK, QPSK, CCK, DQPSK, DBPSK
EIRP	5200:12.932 dBm;
Antenna Gain	0.87dBi
Accessories	
Battery	Brand name: N/A Model No. : HEROSP001 Voltage and Capacitance: 3.7 V & 2000mAh
Earphone	Brand name: N/A Model No. : N/A

Note: 1. CMU200can 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

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:

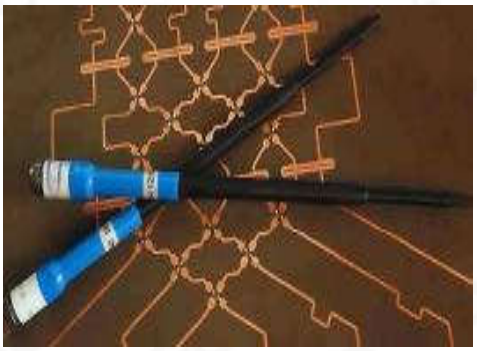
- The PC. It controls most of the bench devices and stores measurement data.A computer running WinXP and the Opensar software.
- The E-Field probe. The probe is a 3-axis system made of 3 distinct dipoles. Each dipole returns a voltage in function of the ambient electric field.
- The Keithley multimeter 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.

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

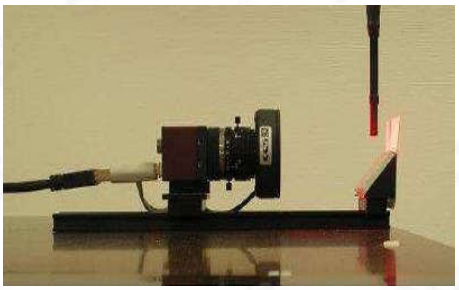
Model	SSE5	
Manufacture	MVG	
Identification No.	SN 22/16 EP315	
Frequency	0.7GHz-3GHz Linearity:±0.06dB(0.7GHz-3GHz)	
Dynamic Range	0.01W/Kg-100W/Kg Linearity:±0.06dB	
Dimensions	Overall length:330mm Length of individual dipoles:4.5mm Maximum external diameter:8mm Probe Tip external diameter:5mm Distance between dipoles/ probe extremity:2.7mm	
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 3 GHz with precisin of better 30%.	

Model	SSE2	
Manufacture	MVG	
Identification No.	SN 41/18 EPGO334	
Frequency	0.45GHz-6GHz Linearity:±0.08dB(0.45GHz-6GHz)	
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%.	

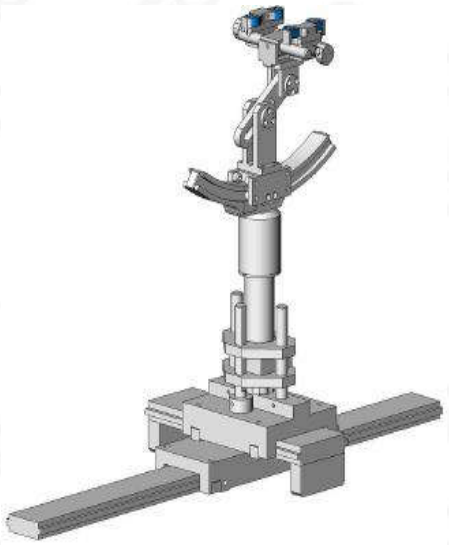
3.3. Robot

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	

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.	

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.

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

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 and IEC62209 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.

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.

4.3. RF Exposure Conditions

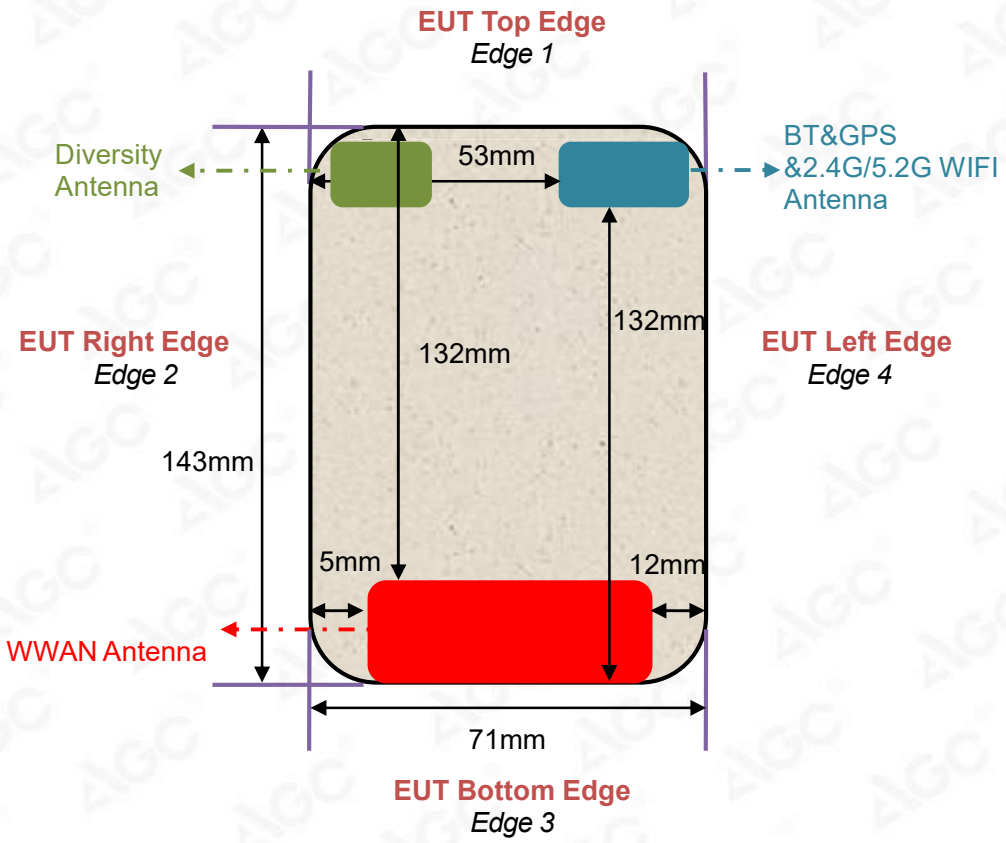
Test Configuration and setting:

The EUT is a model of GSM Portable Mobile Station (MS). It supports GSM/GPRS/EGPRS, WCDMA/HSPA, CDMA /1xRTT, 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)



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)	132mm	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)	5mm	Yes	--
Edge 3 (Bottom)	0mm	Yes	--
Edge 4 (Left)	12mm	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)	0mm	Yes	--
Edge 2 (Right)	53mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 3 (Bottom)	132mm	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)	0mm	Yes	--

For BT mode:

SAR Test Exclusion Consideration for Adjacent Edges

Per KDB 447498 D01 cl. 4.3.1:

a) 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

b) 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:

BT SAR Exclusion Threshold
=3.0*(test separation distance) /[√f(GHz)]
=3.0*10 / √2.480
= 19.05mW.

Conclusion

Since the Maximum Tune-up Power [5.97mW (7.759dBm)] is less than the SAR Exclusion Threshold for BT, SAR evaluation for BT are not required.

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 5% are listed in 5.2

5.1. The composition of the tissue simulating liquid

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

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE 1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in IEEE 1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in IEEE 1528.

Target Frequency (MHz)	head		body	
	εr	σ (S/m)	εr	σ (S/m)
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
750	**41.9**	**0.89**	**55.5**	**0.96**
835	**41.5**	**0.90**	**55.2**	**0.97**
900	41.5	0.97	55.0	1.05
915	41.5	1.01	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1750	**40.1**	**1.37**	**53.4**	**1.49**
1800 – 2000	**40.0**	**1.40**	**53.3**	**1.52**
2450	**39.2**	**1.80**	**52.7**	**1.95**
2600	**39.0**	**1.96**	**52.5**	**2.16**
3000	38.5	2.40	52.0	2.73
5200	**36.0**	**4.66**	**49.0**	**5.30**

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

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 835MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 41.5 (39.425-43.575)	δ[s/m] 0.90(0.855-0.945)		
Head	824.2	40.98	0.91	21.1	Mar. 16,2020
	826.4	40.74	0.92		
	835	40.61	0.93		
	836.6	40.25	0.93		
	846.6	40.16	0.94		
	848.8	40.03	0.94		

Tissue Stimulant Measurement for 1900MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr40.00(38.00-42.00)	δ[s/m]1.40(1.33-1.47)		
Head	1850.2	40.54	1.34	20.6	Mar. 17,2020
	1852.4	40.27	1.35		
	1880	39.86	1.35		
	1900	39.51	1.36		
	1907.6	39.32	1.37		
	1909.8	39.19	1.38		

Tissue Stimulant Measurement for 1750MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 40.1 (38.095-42.105)	δ[s/m]1.37(1.3015-1.439)		
Head	1712.5	40.26	1.32	20.9	Mar. 19,2020
	1720	40.15	1.33		
	1732.5	39.94	1.34		
	1745	39.76	1.34		
	1750	39.62	1.35		
	1752.5	39.47	1.36		
	1755	39.26	1.36		
	1770	39.07	1.37		

Tissue Stimulant Measurement for 835MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 41.5 (39.425-43.575)	δ[s/m] 0.90(0.855-0.945)		
Head	817.25	43.21	0.88	21.3	Apr. 23,2020
	820	43.16	0.89		
	822.75	42.87	0.90		
	824.7	42.69	0.91		
	835	42.53	0.92		
	836.52	42.42	0.93		
	848.31	42.25	0.93		

Tissue Stimulant Measurement for 1900MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr40.00(38.00-42.00)	δ[s/m]1.40(1.33-1.47)		
Head	1851.25	39.97	1.33	21.0	Apr. 24,2020
	1880	39.75	1.34		
	1900	39.53	1.35		
	1908.75	39.32	1.36		

Tissue Stimulant Measurement for 750MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 41.9 (39.805-43.995)	δ[s/m] 0.89(0.8455-0.9345)		
Head	704	43.37	0.86	21.1	Mar. 20,2020
	709	43.23	0.87		
	707.5	43.05	0.88		
	710	42.91	0.89		
	711	42.76	0.90		
	750	42.62	0.91		
	782	42.58	0.92		

Tissue Stimulant Measurement for 835MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 41.5 (39.425-43.575)	δ[s/m] 0.90(0.855-0.945)		
Head	829	42.34	0.87	20.8	Mar. 25,2020
	831.5	42.25	0.87		
	835	42.17	0.88		
	836.5	42.01	0.89		
	841.5	41.96	0.90		
	844	41.85	0.90		

Tissue Stimulant Measurement for 1900MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr40.00(38.00-42.00)	δ[s/m]1.40(1.33-1.47)		
Head	1860	39.93	1.35	21.3	Mar. 24,2020
	1880	39.78	1.36		
	1882.5	39.67	1.36		
	1900	39.62	1.37		
	1905	39.54	1.38		

Tissue Stimulant Measurement for 2450MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr39.2(37.24-41.16)	δ[s/m]1.80(1.71-1.89)		
Head	2412	39.42	1.73	20.9	Mar. 23,2020
	2437	39.06	1.74		
	2450	38.94	1.75		
	2462	38.65	1.76		

Tissue Stimulant Measurement for 2600MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr39(37.05-40.95)	δ[s/m]1.96(1.86-2.06)		
Head	2506	39.34	1.87	21.4	Mar. 18,2020
	2593	39.07	1.87		
	2600	38.95	1.89		
	2680	38.78	1.89		

Tissue Stimulant Measurement for 5200MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 36(34.2-37.8)	δ[s/m] 4.66(4.427-4.893)		
Head	5190	36.91	4.56	21.3	Apr. 18,2020
	5200	36.84	4.57		
	5230	36.65	4.58		

Tissue Stimulant Measurement for 750MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 41.9 (39.805-43.995)	δ[s/m] 0.89(0.8455-0.9345)		
Head	673	40.78	0.85	20.6	May 15,2020
	683	40.54	0.86		
	688	40.32	0.87		
	750	40.17	0.88		

Tissue Stimulant Measurement for 835MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 41.5 (39.425-43.575)	δ[s/m] 0.90(0.855-0.945)		
Head	831.5	41.62	0.91	21.9	May 16,2020
	835	41.36	0.92		
	836.5	41.09	0.92		
	841.5	40.83	0.93		

Tissue Stimulant Measurement for 1750MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 40.1 (38.095-42.105)	δ[s/m]1.37(1.3015-1.439)		
Head	1720	40.25	1.35	20.4	May 19,2020
	1732.5	39.90	1.36		
	1745	39.78	1.37		
	1750	39.61	1.38		
	1755	39.32	1.39		
	1770	39.16	1.40		

Tissue Stimulant Measurement for 1900MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr40.00(38.00-42.00)	δ[s/m]1.40(1.33-1.47)		
Head	1860	40.58	1.34	20.7	May 18,2020
	1880	40.26	1.35		
	1882.5	39.79	1.35		
	1900	39.51	1.36		
	1905	39.30	1.37		

Tissue Stimulant Measurement for 750MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 41.9 (39.805-43.995)	δ[s/m] 0.89(0.8455-0.9345)		
Head	683	41.33	0.85	20.6	May 21,2020
	707.5	41.12	0.86		
	710	40.84	0.86		
	750	40.68	0.87		
	782	40.47	0.88		

Tissue Stimulant Measurement for 835MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr 41.5 (39.425-43.575)	δ[s/m] 0.90(0.855-0.945)		
Head	835	41.96	0.91	21.3	May 22,2020
	836.5	41.75	0.92		

Tissue Stimulant Measurement for 2600MHz					
	Fr. (MHz)	Dielectric Parameters (±5%)		Tissue Temp [°C]	Test time
		εr39(37.05-40.95)	δ[s/m]1.96(1.86-2.06)		
Head	2593	39.28	1.88	20.9	May 22,2020
	2600	38.92	1.89		

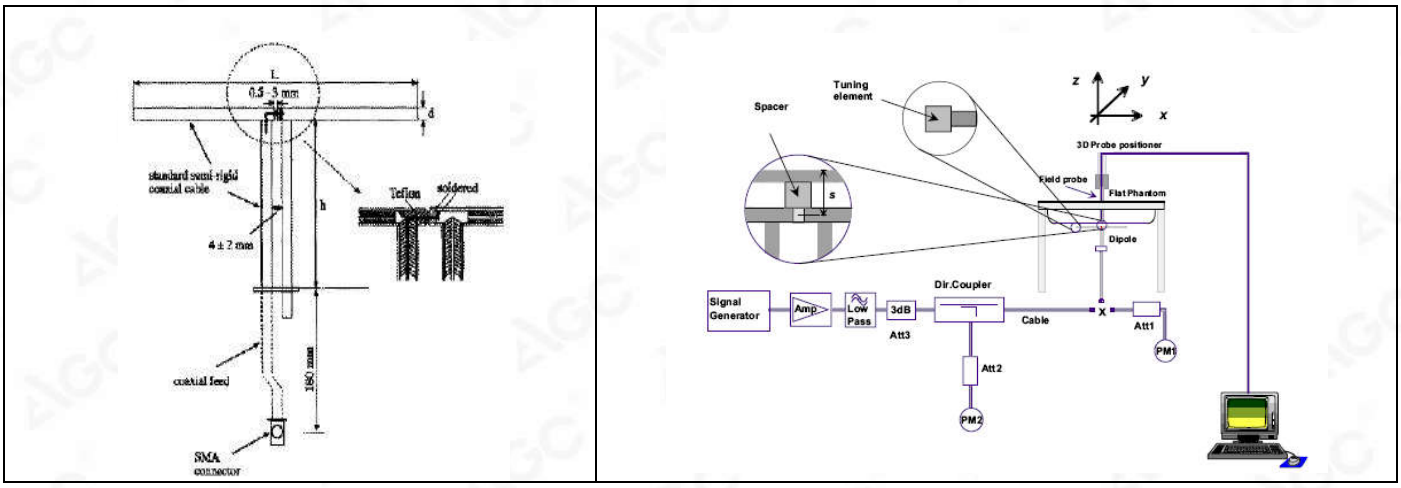
6. SAR SYSTEM CHECK PROCEDURE

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.

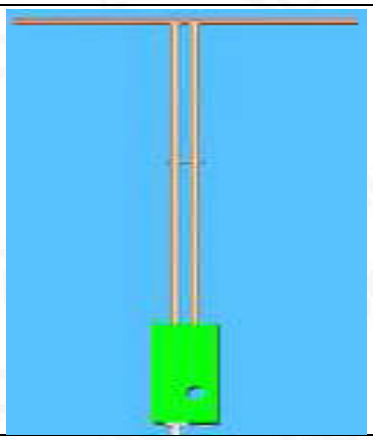
Each SATIMO system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the SATIMO software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

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.



6.2. SAR System Check

6.2.1. Dipoles

	The dipoles used are 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 dipoles.

	The wave guide used 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
2450MHz	51.5	30.4	3.6
2600MHz	48.5	28.8	3.6

Frequency	L (mm)	W (mm)	L_f (mm)	W_f (mm)
5000MHz	40.39	20.19	81.03	61.98

6.2.2. System Check Result

System Performance Check at 750MHz&835MHz &1800MHz &1900MHz &2450MHz&2600MHz &5000-6000MHz for Head								
Validation Kit: SN47/14 DIP 0G750-340& SN29/15 DIP 0G835-383& SN46/11 DIP 1G800-186& SN 46/11 DIP 1G900-187& SN46/11 DIP 2G450-189& SN 47/14 DIP 2G600-342& SN 15/15 WGA36								
Frequency [MHz]	Target Value(W/Kg)		Reference Result (± 10%)		Tested Value(W/Kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
835	9.85	6.27	8.865-10.835	5.643-6.897	9.25	5.89	21.1	Mar. 16,2020
1900	40.25	20.50	36.225-44.275	18.45-22.55	42.37	22.21	20.6	Mar. 17,2020
835	9.85	6.27	8.865-10.835	5.643-6.897	9.61	6.17	21.3	Apr. 23,2020
1900	40.25	20.50	36.225-44.275	18.45-22.55	42.12	22.25	21.0	Apr. 24,2020
1800	39.07	20.29	35.163-42.977	18.261-22.319	38.25	20.77	20.9	Mar. 19,2020
750	8.31	5.45	7.479-9.141	4.905-5.995	8.90	5.58	21.1	Mar. 20,2020
835	9.85	6.27	8.865-10.835	5.643-6.897	8.92	5.72	20.8	Mar. 25,2020
1900	40.25	20.50	36.225-44.275	18.45-22.55	43.86	22.06	21.3	Mar. 24,2020
2450	53.97	24.01	48.573-59.367	21.609-26.411	51.04	22.45	20.9	Mar. 23,2020
2600	56.86	24.84	51.174-62.546	22.356-27.324	51.78	23.16	21.4	Mar. 18,2020
5200	161.18	55.04	145.062-177.298	49.536-60.544	170.57	57.90	21.3	Apr. 18,2020

System Performance Check at 750MHz&835MHz &1800MHz &1900MHz &&2600MHz for Head								
Validation Kit: SN47/14 DIP 0G750-340& SN29/15 DIP 0G835-383& SN46/11 DIP 1G800-186& SN 46/11 DIP 1G900-187& SN 47/14 DIP 2G600-342								
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	8.31	5.45	7.479-9.141	4.905-5.995	8.98	5.68	20.6	May 15,2020
835	9.85	6.27	8.865-10.835	5.643-6.897	9.47	6.02	21.9	May 16,2020
1800	39.07	20.29	35.163-42.977	18.261-22.319	38.31	19.37	20.4	May 19,2020
1900	40.25	20.50	36.225-44.275	18.45-22.55	42.34	20.57	20.7	May 18,2020
750	8.31	5.45	7.479-9.141	4.905-5.995	8.98	5.89	20.6	May 21,2020
835	9.85	6.27	8.865-10.835	5.643-6.897	9.61	6.01	21.3	May 22,2020
2600	56.86	24.84	51.174-62.546	22.356-27.324	54.16	24.31	20.9	May 22,2020

Note:
(1) We use a CW signal of 18dBm&15 dBm for system check, and then all SAR value are normalized to 1W forward power. The result must be within ±10% of target value.

7. EUT TEST POSITION

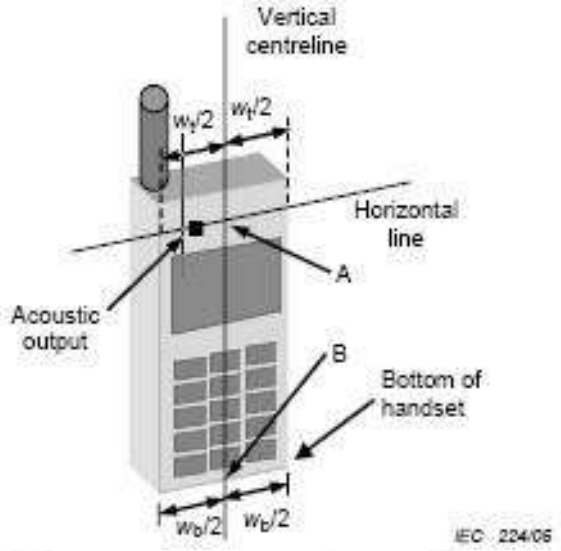
This EUT was tested in **Right Cheek, Right Tilted, Left Cheek, Left Tilted, Body back, Body front and 4 edges.**

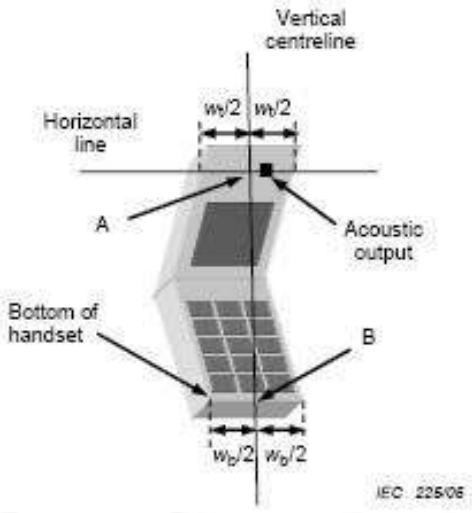
7.1. Define Two Imaginary Lines on the Handset

(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.





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.

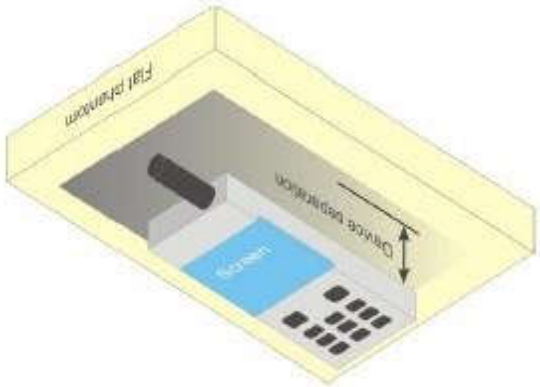
(2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.

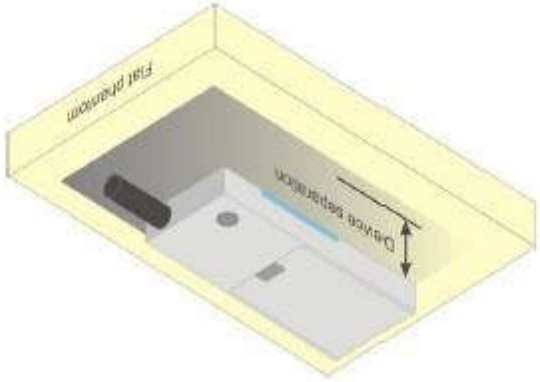
7.4. Body Worn Position

(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.**





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

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

10. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Current calibration date	Next calibration date
SAR Probe	MVG	SN 22/16 EP315	Jun. 04,2019	Jun. 03,2020
SAR Probe	MVG	SN 41/18 EPGO334	Jun. 04,2019	Jun. 03,2020
Phantom	SATIMO	SN_4511_SAM90	Validated. No cal required.	Validated. No cal required.
Liquid	SATIMO	-	Validated. No cal required.	Validated. No cal required.
Comm Tester	Agilent-8960	GB46310822	Oct. 08,2019	Oct. 07,2020
Comm Tester	R&S- CMW500	S/N120909	Jul. 02,2019	Jul. 01,2020
Multimeter	Keithley 2000	4114939	Sep. 09,2019	Sep. 08,2020
Dipole	SATIMO SID750	SN47/14 DIP 0G750-340	Apr. 26,2019	Apr. 25,2022
Dipole	SATIMO SID835	SN29/15 DIP 0G835-383	Apr. 26,2019	Apr. 25,2022
Dipole	SATIMO SID1800	SN46/11 DIP 1G800-186	Apr. 26,2019	Apr. 25,2022
Dipole	SATIMO SID1900	SN 46/11 DIP 1G900-187	Apr. 26,2019	Apr. 25,2022
Dipole	SATIMO SID2450	SN46/11 DIP 2G450-189	Apr. 26,2019	Apr. 25,2022
Dipole	SATIMO SID2600	SN 47/14 DIP 2G600-342	Apr. 26,2019	Apr. 25,2022
Dipole	SATIMO SWG5500	SN 15/15 WGA36	Apr. 26,2019	Apr. 25,2022
Signal Generator	Agilent-E4438C	US41461365	Oct. 08,2019	Oct. 07,2020
Vector Analyzer	Agilent / E4440A	US41421290	Sep. 09,2019	Sep. 08,2020
Network Analyzer	Rhode & Schwarz ZVL6	SN 101443	Oct. 08,2019	Oct. 07,2020
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	June 11,2019	June 10, 2020
Attenuator	Mini-circuits / VAT-10+	31405	June 11,2019	June 10, 2020
Amplifier	AS0104-55_55	1004793	June 12,2019	June 11,2020
Directional Couple	Werlatone/ C5571-10	SN99463	June 12,2019	June 11,2020
Directional Couple	Werlatone/ C6026-10	SN99482	June 12,2019	June 11,2020
Power Sensor	NRP-Z21	1137.6000.02	Sep. 09,2019	Sep. 08,2020
Power Sensor	NRP-Z23	US38261498	Feb. 18,2020	Feb. 17,2021
Power Viewer	R&S	V2.3.1.0	N/A	N/A

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.

11. MEASUREMENT UNCERTAINTY

SATIMO Uncertainty- SN 22/16 EP315 Measurement uncertainty for Dipole averaged over 1 gram / 10 gram									
a	b	c	d	e f(d,k)	f	g	h c×f/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System									
Probe calibration	E.2.1	5.831	N	1	1	1	5.83	5.83	∞
Axial Isotropy	E.2.2	0.57	R	$\sqrt{3}$	√0.5	√0.5	0.23	0.23	∞
Hemispherical Isotropy	E.2.2	0.915	R	$\sqrt{3}$	√0.5	√0.5	0.37	0.37	∞
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	0.675	R	$\sqrt{3}$	1	1	0.39	0.39	∞
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	E2.5	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	1	1	0	0	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
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	∞
Test sample Related									
Test sample positioning	E.4.2	2.6	N	1	1	1	2.6	2.6	∞
Device holder uncertainty	E.4.1	3	N	1	1	1	3	3	∞
Output power variation—SAR drift measurement	E.2.9	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	E.6.5	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
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	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				9.787	9.587	
Expanded Uncertainty (95% Confidence interval)			K=2				19.573	19.175	

SATIMO Uncertainty- SN 22/16 EP315 System Validation uncertainty for Dipole averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h c×f/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (±%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System									
Probe calibration	E.2.1	5.831	N	1	1	1	5.83	5.83	∞
Axial Isotropy	E.2.2	0.57	R	$\sqrt{3}$	1	1	0.33	0.33	∞
Hemispherical Isotropy	E.2.2	0.915	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	0.675	R	$\sqrt{3}$	1	1	0.39	0.39	∞
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 check source (dipole)									
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 tissue parameters									
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 measurement	E.3.3	4.0	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5.0	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				9.735	9.534	
Expanded Uncertainty (95% Confidence interval)			K=2				19.470	19.069	

SATIMO Uncertainty- SN 22/16 EP315 System check uncertainty for Dipole averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h c×f/e	i c×g/e	k
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	0.5	N	1	1	1	0.50	0.50	∞
Axial Isotropy	E.2.2	0.57	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	0.915	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Linearity	E.2.4	0.675	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	N	1	1	1	2	2	∞
Input power and SAR drift measurement	8,6.6.4	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2	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	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				5.564	5.205	
Expanded Uncertainty (95% Confidence interval)			K=2				11.128	10.410	

SATIMO Uncertainty- SN 41/18 EPGO334 Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h c×f/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System									
Probe calibration	E.2.1	5.831	N	1	1	1	5.83	5.83	∞
Axial Isotropy	E.2.2	0.685	R	$\sqrt{3}$	√0.5	√0.5	0.28	0.28	∞
Hemispherical Isotropy	E.2.2	1.14	R	$\sqrt{3}$	√0.5	√0.5	0.47	0.47	∞
Boundary effect	E.2.3	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	0.935	R	$\sqrt{3}$	1	1	0.54	0.54	∞
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	E2.5	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	1	1	0	0	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
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	∞
Test sample Related									
Test sample positioning	E.4.2	2.6	N	1	1	1	2.6	2.6	∞
Device holder uncertainty	E.4.1	3	N	1	1	1	3	3	∞
Output power variation—SAR drift measurement	E.2.9	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	E.6.5	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
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	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				9.796	9.597	
Expanded Uncertainty (95% Confidence interval)			K=2				19.593	19.194	

SATIMO Uncertainty- SN 41/18 EPGO334 System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h c×f/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (±%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System									
Probe calibration	E.2.1	5.831	N	1	1	1	5.831	5.831	∞
Axial Isotropy	E.2.2	0.685	R	$\sqrt{3}$	1	1	0.395	0.395	∞
Hemispherical Isotropy	E.2.2	1.14	R	$\sqrt{3}$	0	0	0.000	0.000	∞
Boundary effect	E.2.3	1	R	$\sqrt{3}$	1	1	0.577	0.577	∞
Linearity	E.2.4	0.935	R	$\sqrt{3}$	1	1	0.540	0.540	∞
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 check source (dipole)									
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 tissue parameters									
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 measurement	E.3.3	4.0	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5.0	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				9.724	9.524	
Expanded Uncertainty (95% Confidence interval)			K=2				19.449	19.048	

SATIMO Uncertainty- SN 41/18 EPGO334 System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h c×f/e	i c×g/e	k
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	5	N	1	1	1	5	5	∞
Axial Isotropy	E.2.2	0.685	R	$\sqrt{3}$	0	0	0	0	∞
Hemispherical Isotropy	E.2.2	1.14	R	$\sqrt{3}$	0	0	0	0	∞
Boundary effect	E.2.3	1	R	$\sqrt{3}$	0	0	0	0	∞
Linearity	E.2.4	0.935	R	$\sqrt{3}$	0	0	0	0	∞
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	N	1	1	1	2	2	∞
Input power and SAR drift measurement	8,6.6.4	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2	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	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				7.462	7.199	
Expanded Uncertainty (95% Confidence interval)			K=2				14.925	14.398	

12. CONDUCTED POWER MEASUREMENT

GSM BAND

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
GSM 850	824.2	31.74	-9	22.74
	836.6	**32.07**	-9	23.07
	848.8	31.81	-9	22.81
GPRS 850 (1 Slot)	824.2	31.56	-9	22.56
	836.6	31.75	-9	22.75
	848.8	31.81	-9	22.81
GPRS 850 (2 Slot)	824.2	29.11	-6	23.11
	836.6	29.34	-6	**23.34**
	848.8	29.28	-6	23.28
GPRS 850 (3 Slot)	824.2	25.84	-4.26	21.58
	836.6	25.75	-4.26	21.49
	848.8	25.59	-4.26	21.33
GPRS 850 (4 Slot)	824.2	24.71	-3	21.71
	836.6	24.94	-3	21.94
	848.8	25.05	-3	22.05
EGPRS 850 (1 Slot)	824.2	23.55	-9	14.55
	836.6	23.84	-9	14.84
	848.8	24.03	-9	15.03
EGPRS 850 (2 Slot)	824.2	22.20	-6	16.20
	836.6	22.03	-6	16.03
	848.8	22.01	-6	16.01
EGPRS 850 (3 Slot)	824.2	19.38	-4.26	15.12
	836.6	19.52	-4.26	15.26
	848.8	20.15	-4.26	15.89
EGPRS 850 (4 Slot)	824.2	18.11	-3	15.11
	836.6	18.37	-3	15.37
	848.8	18.89	-3	15.89

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <2>				
GSM 850	824.2	31.64	-9	22.64
	836.6	31.98	-9	22.98
	848.8	31.65	-9	22.65
GPRS 850 （1 Slot）	824.2	31.42	-9	22.42
	836.6	31.66	-9	22.66
	848.8	31.69	-9	22.69
GPRS 850 （2 Slot）	824.2	28.93	-6	22.93
	836.6	29.25	-6	23.25
	848.8	29.12	-6	23.12
GPRS 850 （3 Slot）	824.2	25.76	-4.26	21.50
	836.6	25.65	-4.26	21.39
	848.8	25.48	-4.26	21.22
GPRS 850 （4 Slot）	824.2	24.57	-3	21.57
	836.6	24.84	-3	21.84
	848.8	24.92	-3	21.92

GSM BAND CONTINUE

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
PCS1900	1850.2	**29.91**	-9	20.91
	1880	29.79	-9	20.79
	1909.8	29.78	-9	20.78
GPRS1900 （1 Slot）	1850.2	29.45	-9	20.45
	1880	29.21	-9	20.21
	1909.8	29.59	-9	20.59
GPRS1900 （2 Slot）	1850.2	27.28	-6	21.28
	1880	27.40	-6	21.40
	1909.8	27.29	-6	21.29
GPRS1900 （3 Slot）	1850.2	26.66	-4.26	22.40
	1880	26.40	-4.26	22.14
	1909.8	26.77	-4.26	22.51
GPRS1900 （4 Slot）	1850.2	25.48	-3	22.48
	1880	25.26	-3	22.26
	1909.8	25.62	-3	**22.62**
EGPRS1900 （1 Slot）	1850.2	23.60	-9	14.60
	1880	23.85	-9	14.85
	1909.8	23.59	-9	14.59
EGPRS1900 （2 Slot）	1850.2	23.19	-6	17.19
	1880	22.24	-6	16.24
	1909.8	23.24	-6	17.24
EGPRS1900 （3 Slot）	1850.2	21.08	-4.26	16.82
	1880	20.99	-4.26	16.73
	1909.8	21.23	-4.26	16.97
EGPRS1900 （4 Slot）	1850.2	20.23	-3	17.23
	1880	20.31	-3	17.31
	1909.8	20.46	-3	17.46

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <2>				
PCS1900	1850.2	29.77	-9	20.77
	1880	29.64	-9	20.64
	1909.8	29.65	-9	20.65
GPRS1900 （1 Slot）	1850.2	29.32	-9	20.32
	1880	29.06	-9	20.06
	1909.8	29.43	-9	20.43
GPRS1900 （2 Slot）	1850.2	27.12	-6	21.12
	1880	27.25	-6	21.25
	1909.8	27.19	-6	21.19
GPRS1900 （3 Slot）	1850.2	26.58	-4.26	22.32
	1880	26.25	-4.26	21.99
	1909.8	26.66	-4.26	22.40
GPRS1900 （4 Slot）	1850.2	25.35	-3	22.35
	1880	25.12	-3	22.12
	1909.8	25.51	-3	22.51

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
Note 2:
SAR is not required for GPRS (1 Slot) Mode because its output power is less than of Voice Mode

UMTS BAND
HSDPA Setup Configuration:

·The EUT was connected to Base Station Agilent E5515C 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 βc/βd =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.

HSUPA Setup Configuration:

· The EUT was connected to Base Station Agilent E5515C 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 βc/βd =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.

UMTS BAND II

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1900 RMC	1852.4	**22.57**
	1880	22.01
	1907.6	22.26
WCDMA 1900 AMR	1852.4	22.31
	1880	22.22
	1907.6	21.98
HSDPA Subtest 1	1852.4	21.05
	1880	21.01
	1907.6	20.92
HSDPA Subtest 2	1852.4	20.31
	1880	19.88
	1907.6	20.79
HSDPA Subtest 3	1852.4	19.91
	1880	19.99
	1907.6	20.23
HSDPA Subtest 4	1852.4	20.10
	1880	20.62
	1907.6	20.78
HSUPA Subtest 1	1852.4	20.54
	1880	20.43
	1907.6	20.39
HSUPA Subtest 2	1852.4	21.45
	1880	21.74
	1907.6	21.33
HSUPA Subtest 3	1852.4	21.39
	1880	21.29
	1907.6	21.05
HSUPA Subtest 4	1852.4	21.01
	1880	22.33
	1907.6	22.03
HSUPA Subtest 5	1852.4	20.98
	1880	21.67
	1907.6	21.88

UMTS BAND IV

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1700 RMC	1712.5	**22.51**
	1732.5	22.20
	1752.5	22.06
WCDMA 1700 AMR	1712.5	22.20
	1732.5	21.85
	1752.5	21.99
HSDPA Subtest 1	1712.5	21.28
	1732.5	21.00
	1752.5	20.93
HSDPA Subtest 2	1712.5	20.41
	1732.5	20.20
	1752.5	20.59
HSDPA Subtest 3	1712.5	19.88
	1732.5	20.05
	1752.5	20.05
HSDPA Subtest 4	1712.5	20.06
	1732.5	20.51
	1752.5	20.60
HSUPA Subtest 1	1712.5	20.51
	1732.5	20.41
	1752.5	20.33
HSUPA Subtest 2	1712.5	21.52
	1732.5	21.90
	1752.5	21.18
HSUPA Subtest 3	1712.5	21.04
	1732.5	20.97
	1752.5	21.04
HSUPA Subtest 4	1712.5	21.04
	1732.5	22.27
	1752.5	22.31
HSUPA Subtest 5	1712.5	21.03
	1732.5	21.72
	1752.5	22.03

UMTS BAND V

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 850 RMC	826.4	**22.38**
	836.6	22.07
	846.6	22.14
WCDMA 850 AMR	826.4	22.04
	836.6	22.21
	846.6	21.91
HSDPA Subtest 1	826.4	21.20
	836.6	21.08
	846.6	20.94
HSDPA Subtest 2	826.4	20.35
	836.6	19.83
	846.6	20.63
HSDPA Subtest 3	826.4	19.94
	836.6	20.06
	846.6	20.05
HSDPA Subtest 4	826.4	20.18
	836.6	20.35
	846.6	20.73
HSUPA Subtest 1	826.4	20.71
	836.6	20.30
	846.6	20.48
HSUPA Subtest 2	826.4	21.29
	836.6	21.70
	846.6	21.41
HSUPA Subtest 3	826.4	21.30
	836.6	21.07
	846.6	21.02
HSUPA Subtest 4	826.4	21.17
	836.6	22.06
	846.6	22.22
HSUPA Subtest 5	826.4	21.14
	836.6	21.73
	846.6	21.70

CDMA BAND 0

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
1xRTT	824.7	23.90
	836.52	**24.20**
	848.31	23.80
1XEV-DO REV A	824.7	23.70
	836.52	23.90
	848.31	22.80

CDMA BAND 1

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
1xRTT	1851.25	23.50
	1880	23.60
	1908.75	**23.90**
1XEV-DO REV A	1851.25	23.50
	1880	23.60
	1908.75	23.40

CDMA BAND 10

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
1xRTT	817.25	**24.30**
	820	24.30
	822.75	23.70
1XEV-DO REV A	817.25	24.20
	820	23.70
	822.75	23.40

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.

LTE Band

Conducted 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	24.98	24.08	24.03
			2	0	**25.12**	24.23	24.18
			5	0	25.07	24.10	24.02
		3	0	0	25.12	24.19	24.06
			1	0	24.83	24.15	24.09
			3	0	24.69	24.17	24.05
		6	0	1	23.61	23.12	23.11
	16QAM	1	0	1	23.90	22.92	22.91
			2	1	24.10	23.08	23.08
			5	1	23.88	22.90	22.85
		3	1	1	23.45	23.00	22.88
			0	1	23.94	23.00	22.90
			3	1	23.46	23.00	22.86
		6	0	2	22.63	21.96	22.07
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 18615**	**Channel 18900**	**Channel 19185**
3MHz	QPSK	1	0	0	24.60	24.06	23.91
			8	0	24.60	24.06	23.98
			14	0	24.61	24.01	24.00
		8	0	1	23.56	23.03	22.92
			4	1	23.56	23.02	22.95
			7	1	23.56	23.00	22.99
		15	0	1	23.56	23.02	22.93
	16QAM	1	0	1	23.42	22.77	22.89
			8	1	23.43	22.79	22.94
			14	1	23.33	22.80	22.97
		8	0	2	22.54	22.03	21.98
			4	2	22.53	22.03	21.96
			7	2	22.53	22.01	21.97
		15	0	2	22.49	21.93	21.94

Conducted 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	24.52	24.03	23.90
			12	0	24.58	24.13	24.11
			24	0	24.50	23.97	24.01
		12	0	1	23.56	23.04	22.89
			6	1	23.55	23.04	22.93
			13	1	23.58	23.01	23.00
		25	0	1	23.58	23.03	22.96
	16QAM	1	0	1	23.52	22.87	22.84
			12	1	23.66	22.99	23.00
			24	1	23.54	22.87	22.91
		12	0	2	22.63	22.07	21.91
			6	2	22.66	22.08	21.90
			13	2	22.66	22.08	21.97
		25	0	2	22.58	22.07	21.99
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18650	Channel 18900	Channel 19150
10MHz	QPSK	1	0	0	24.55	24.14	23.87
			24	0	24.72	24.25	24.09
			49	0	24.45	24.01	24.02
		25	0	1	23.64	23.11	22.97
			12	1	23.68	23.14	22.97
			25	1	23.62	23.13	23.11
		50	0	1	23.68	23.12	23.07
	16QAM	1	0	1	23.57	22.95	22.90
			24	1	23.69	23.03	23.11
			49	1	23.45	22.78	22.99
		25	0	2	22.65	22.19	21.98
			12	2	22.66	22.17	21.99
			25	2	22.62	22.16	22.07
		50	0	2	22.63	22.13	22.06

Conducted 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	24.46	24.11	23.85
			38	0	24.50	24.12	23.96
			74	0	24.13	23.85	23.98
		38	0	1	23.56	22.85	22.85
			18	1	23.57	22.86	22.97
			37	1	23.27	22.55	22.91
		75	0	1	23.60	23.07	23.10
	16QAM	1	0	1	23.55	22.86	22.84
			38	1	23.60	22.85	22.98
			74	1	23.27	22.55	22.89
		38	0	2	23.59	22.88	22.84
			18	2	23.60	22.86	22.95
			37	2	23.28	22.57	22.88
		75	0	2	22.60	22.10	22.05
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18700	Channel 18900	Channel 19100
20MHz	QPSK	1	0	0	24.44	23.90	23.81
			49	0	24.66	24.22	24.15
			99	0	23.96	23.63	23.88
		50	0	1	23.64	23.11	23.10
			25	1	23.62	23.14	23.16
			50	1	23.34	23.01	23.08
		100	0	1	23.43	23.02	23.05
	16QAM	1	0	1	23.52	22.70	22.66
			49	1	23.74	23.00	23.01
			99	1	23.00	22.43	22.72
		50	0	2	22.65	22.21	22.14
			25	2	22.64	22.20	22.14
			50	2	22.37	22.07	22.09
		100	0	2	22.45	22.09	22.09

Conducted 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	24.60	24.40	24.35
			2	0	24.73	24.54	24.47
			5	0	24.60	24.46	24.34
		3	0	0	24.43	24.59	24.15
			1	0	24.46	24.59	24.15
			3	0	24.46	24.55	24.19
		6	0	1	23.58	23.53	23.37
	16QAM	1	0	1	23.16	23.37	22.90
			2	1	23.31	23.51	23.04
			5	1	23.15	23.37	22.92
		3	0	1	23.22	23.38	22.91
			1	1	23.21	23.38	22.91
			3	1	23.19	23.36	22.89
		6	0	2	22.30	22.53	22.02
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 19965	Channel 20175	Channel 20385
3MHz	QPSK	1	0	0	24.59	24.44	24.41
			8	0	24.64	24.44	24.38
			14	0	24.64	24.49	24.38
		8	0	1	23.49	23.48	23.27
			4	1	23.50	23.47	23.27
			7	1	23.49	23.50	23.22
		15	0	1	23.41	23.48	23.20
	16QAM	1	0	1	23.21	23.50	23.02
			8	1	23.21	23.50	22.92
			14	1	23.21	23.46	22.93
		8	0	2	22.39	22.53	22.12
			4	2	22.37	22.55	22.13
			7	2	22.39	22.51	22.10
		15	0	2	22.28	22.51	22.02

Conducted 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	24.46	24.36	24.25
			12	0	24.60	24.56	24.37
			24	0	24.52	24.50	24.25
		12	0	1	23.42	23.44	23.19
			6	1	23.46	23.47	23.17
			13	1	23.42	23.51	23.17
		25	0	1	23.44	23.51	23.16
	16QAM	1	0	1	23.29	23.34	23.13
			12	1	23.49	23.45	23.21
			24	1	23.42	23.40	23.10
		12	0	2	22.46	22.48	22.21
			6	2	22.45	22.47	22.18
			13	2	22.43	22.50	22.19
		25	0	2	22.39	22.55	22.11
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20000	Channel 20175	Channel 20350
10MHz	QPSK	1	0	0	24.61	24.43	24.50
			24	0	**24.80**	24.59	24.52
			49	0	24.63	24.53	24.42
		25	0	1	23.60	23.56	23.32
			12	1	23.60	23.56	23.31
			25	1	23.60	23.61	23.31
		50	0	1	23.59	23.57	23.29
	16QAM	1	0	1	23.20	23.44	23.19
			24	1	23.39	23.64	23.12
			49	1	23.38	23.54	22.96
		25	0	2	22.58	22.58	22.30
			12	2	22.58	22.56	22.31
			25	2	22.62	22.63	22.27
		50	0	2	22.56	22.62	22.30

Conducted 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	24.50	24.40	24.40
			38	0	24.59	24.58	24.40
			74	0	24.44	24.44	24.17
		38	0	1	23.42	23.47	23.39
			18	1	23.62	23.58	23.33
			37	1	23.60	23.42	23.09
		75	0	1	23.79	23.66	23.46
	16QAM	1	0	1	23.41	23.48	23.46
			38	1	23.62	23.58	23.35
			74	1	23.60	23.39	23.09
		38	0	2	23.39	23.45	23.46
			18	2	23.66	23.57	23.32
			37	2	23.57	23.45	23.06
		75	0	2	22.70	22.62	22.40
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20050	Channel 20175	Channel 20300
20MHz	QPSK	1	0	0	24.32	24.26	24.33
			49	0	24.72	24.71	24.69
			99	0	24.34	24.30	24.08
		50	0	1	23.66	23.55	23.42
			25	1	23.64	23.53	23.43
			50	1	23.58	23.63	23.35
		100	0	1	23.63	23.55	23.32
	16QAM	1	0	1	23.27	23.15	23.43
			49	1	23.79	23.56	23.59
			99	1	23.51	23.13	22.99
		50	0	2	22.66	22.59	22.45
			25	2	22.68	22.59	22.46
			50	2	22.62	22.66	22.34
		100	0	2	22.64	22.59	22.32

Conducted 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	23.60	23.83	23.91
			2	0	23.76	23.93	**24.14**
			5	0	23.63	23.77	24.04
		3	0	0	23.69	23.84	23.84
			1	0	23.69	23.83	23.85
			3	0	23.72	23.81	23.93
		6	0	1	22.67	22.87	22.95
	16QAM	1	0	1	22.48	22.62	22.53
			2	1	22.67	22.79	22.73
			5	1	22.51	22.61	22.52
		3	0	1	22.50	22.60	22.59
			1	1	22.49	22.63	22.64
			3	1	22.48	22.61	22.63
		6	0	2	21.72	21.79	21.69
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20415	Channel 20525	Channel 20635
3MHz	QPSK	1	0	0	23.75	23.82	23.89
			8	0	23.83	23.88	23.97
			14	0	23.78	23.80	24.08
		8	0	1	22.67	22.86	22.86
			4	1	22.69	22.86	22.86
			7	1	22.70	22.86	22.85
		15	0	1	22.66	22.80	22.84
	16QAM	1	0	1	22.56	22.77	22.66
			8	1	22.56	22.84	22.64
			14	1	22.53	22.77	22.57
		8	0	2	21.70	21.78	21.80
			4	2	21.73	21.77	21.79
			7	2	21.71	21.77	21.71
		15	0	2	21.64	21.76	21.73

Conducted 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	23.62	23.82	23.80
			12	0	23.80	23.99	23.96
			24	0	23.69	23.80	23.99
		12	0	1	22.67	22.83	22.83
			6	1	22.67	22.83	22.85
			13	1	22.73	22.80	22.70
		25	0	1	22.71	22.86	22.84
	16QAM	1	0	1	22.62	22.67	22.75
			12	1	22.79	22.82	22.90
			24	1	22.71	22.65	22.75
		12	0	2	21.78	21.79	21.88
			6	2	21.78	21.79	21.87
			13	2	21.80	21.74	21.73
		25	0	2	21.78	21.77	21.77
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20450	Channel 20525	Channel 20600
10MHz	QPSK	1	0	0	23.70	23.85	23.73
			24	0	23.87	23.95	23.87
			49	0	23.79	23.84	23.88
		25	0	1	22.78	22.86	22.79
			12	1	22.76	22.88	22.86
			25	1	22.83	22.77	22.75
		50	0	1	22.82	22.82	22.86
	16QAM	1	0	1	22.68	22.59	22.50
			24	1	22.86	22.68	22.66
			49	1	22.75	22.59	22.54
		25	0	2	21.81	21.84	21.85
			12	2	21.80	21.81	21.85
			25	2	21.71	21.73	21.73
		50	0	2	21.82	21.79	21.72

Conducted 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	23.56	23.55	23.62
			2	0	23.73	23.71	23.75
			5	0	23.46	23.56	23.57
		3	0	0	23.66	23.62	23.68
			1	0	23.67	23.59	23.67
			3	0	23.64	23.69	23.67
		6	0	1	22.64	22.62	22.67
	16QAM	1	0	1	22.47	22.36	22.45
			2	1	22.65	22.51	22.59
			5	1	22.44	22.37	22.44
		3	0	1	22.47	22.45	22.46
			1	1	22.49	22.47	22.47
			3	1	22.46	22.47	22.44
		6	0	2	21.61	21.45	21.62
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23025	Channel 23095	Channel 23165
3MHz	QPSK	1	0	0	23.62	23.62	23.61
			8	0	23.61	23.63	23.67
			14	0	23.55	23.64	23.65
		8	0	1	22.60	22.53	22.58
			4	1	22.60	22.56	22.57
			7	1	22.64	22.57	22.59
		15	0	1	22.57	22.55	22.56
	16QAM	1	0	1	22.63	22.40	22.43
			8	1	22.58	22.39	22.40
			14	1	22.54	22.38	22.37
		8	0	2	21.59	21.47	21.51
			4	2	21.61	21.49	21.54
			7	2	21.59	21.55	21.52
		15	0	2	21.59	21.56	21.45

Conducted 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	23.61	23.44	23.55
			12	0	23.65	23.59	23.65
			24	0	23.50	23.52	23.54
		12	0	1	22.48	22.60	22.45
			6	1	22.46	22.63	22.49
			13	1	22.54	22.57	22.51
		25	0	1	22.56	22.63	22.54
	16QAM	1	0	1	22.48	22.47	22.36
			12	1	22.55	22.65	22.49
			24	1	22.39	22.54	22.37
		12	0	2	21.46	21.64	21.51
			6	2	21.46	21.62	21.49
			13	2	21.53	21.56	21.54
		25	0	2	21.56	21.57	21.55
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23060	Channel 23095	Channel 23130
10MHz	QPSK	1	0	0	23.61	23.62	**23.96**
			24	0	23.61	23.74	23.88
			49	0	23.57	23.56	23.63
		25	0	1	22.48	22.68	22.69
			12	1	22.48	22.72	22.70
			25	1	22.45	23.16	22.67
		50	0	1	22.48	23.18	22.62
	16QAM	1	0	1	22.56	22.43	22.90
			24	1	22.64	22.56	22.58
			49	1	22.57	22.53	22.41
		25	0	2	21.42	21.63	21.66
			12	2	21.44	21.62	21.67
			25	2	21.39	22.10	21.65
		50	0	2	21.44	22.12	21.65

Conducted 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	23.96	23.91	24.04
			12	0	24.02	24.05	24.11
			24	0	24.00	23.99	24.09
		12	0	1	22.98	23.06	23.11
			6	1	23.00	23.07	23.10
			13	1	22.99	23.10	23.06
		25	0	1	23.03	23.14	23.14
	16QAM	1	0	1	22.92	22.95	22.92
			12	1	23.06	23.17	23.03
			24	1	22.98	23.13	23.01
		12	0	2	22.01	22.10	22.10
			6	2	21.96	22.11	22.11
			13	2	22.00	22.16	22.06
		25	0	2	22.03	22.07	22.15
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23230	Channel 23230	Channel 23230
10MHz	QPSK	1	0	0	23.96	23.96	23.96
			24	0	**24.22**	24.22	24.22
			49	0	24.08	24.08	24.08
		25	0	1	23.08	23.08	23.08
			12	1	23.06	23.06	23.06
			25	1	23.11	23.11	23.11
		50	0	1	23.12	23.12	23.12
	16QAM	1	0	1	23.00	23.00	23.00
			24	1	23.16	23.16	23.16
			49	1	23.18	23.18	23.18
		25	0	2	22.04	22.04	22.04
			12	2	22.05	22.05	22.05
			25	2	22.04	22.04	22.04
		50	0	2	22.05	22.05	22.05

Conducted 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	23.49	23.51	23.58
			12	0	23.69	23.68	23.69
			24	0	23.57	23.59	23.64
		12	0	1	22.61	22.59	22.51
			6	1	22.65	22.59	22.52
			13	1	22.48	22.71	22.56
		25	0	1	22.58	22.67	22.56
	16QAM	1	0	1	22.41	22.56	22.47
			12	1	22.54	22.70	22.60
			24	1	22.46	22.55	22.52
		12	0	2	21.60	21.64	21.50
			6	2	21.60	21.60	21.46
			13	2	21.49	21.72	21.48
		25	0	2	21.57	21.64	21.57
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23780	Channel 23790	Channel 23800
10MHz	QPSK	1	0	0	23.55	23.63	23.64
			24	0	23.70	23.73	**23.78**
			49	0	23.61	23.73	23.66
		25	0	1	22.76	22.76	22.72
			12	1	22.77	22.77	22.72
			25	1	22.82	22.80	22.72
		50	0	1	22.74	22.75	23.23
	16QAM	1	0	1	22.56	22.45	22.33
			24	1	22.72	22.53	22.52
			49	1	22.61	22.44	22.40
		25	0	2	21.72	21.78	21.69
			12	2	21.70	21.77	21.72
			25	2	21.77	21.80	22.18
		50	0	2	21.72	21.76	21.67

Conducted Power of LTE Band 25(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26047	Channel 26365	Channel 26683
1.4MHz	QPSK	1	0	0	25.01	24.49	24.42
			2	0	**25.22**	24.64	24.55
			5	0	25.01	24.51	24.45
		3	0	0	25.07	24.51	24.46
			1	0	25.08	24.50	24.44
			3	0	25.05	24.57	24.43
		6	0	1	24.07	23.48	23.47
	16QAM	1	0	1	23.83	23.21	23.19
			2	1	23.93	23.38	23.33
			5	1	23.81	23.23	23.16
		3	0	1	23.85	23.36	23.21
			1	1	23.87	23.33	23.21
			3	1	23.85	23.32	23.18
		6	0	2	23.04	22.34	22.42
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26055	Channel 26365	Channel 26675
3MHz	QPSK	1	0	0	25.00	24.43	24.41
			8	0	25.10	24.41	24.40
			14	0	25.07	24.40	24.33
		8	0	1	23.98	23.43	23.47
			4	1	23.99	23.41	23.46
			7	1	24.02	23.43	23.41
		15	0	1	24.01	23.39	23.36
	16QAM	1	0	1	23.83	23.13	23.39
			8	1	23.79	23.18	23.31
			14	1	23.80	23.17	23.30
		8	0	2	22.96	22.42	22.44
			4	2	22.98	22.42	22.45
			7	2	22.99	22.43	22.39
		15	0	2	22.95	22.33	22.40

Conducted Power of LTE Band 25(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26065	Channel 26365	Channel 26665
5MHz	QPSK	1	0	0	24.97	24.44	24.41
			12	0	24.98	24.56	24.53
			24	0	25.14	24.38	24.36
		12	0	1	24.05	23.40	23.52
			6	1	24.04	23.38	23.49
			13	1	24.01	23.40	23.25
		25	0	1	24.06	23.41	23.38
	16QAM	1	0	1	23.93	23.26	23.29
			12	1	24.05	23.35	23.37
			24	1	23.92	23.25	23.22
		12	0	2	23.11	22.43	22.47
			6	2	23.10	22.47	22.49
			13	2	23.10	22.43	22.27
		25	0	2	23.05	22.48	22.41
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26090	Channel 26365	Channel 26640
10MHz	QPSK	1	0	0	25.03	24.42	24.32
			24	0	25.13	24.49	24.53
			49	0	24.88	24.33	24.35
		25	0	1	24.05	23.43	23.43
			12	1	24.04	23.44	23.38
			25	1	23.93	23.46	23.17
		50	0	1	23.99	23.42	23.35
	16QAM	1	0	1	23.80	23.19	23.33
			24	1	23.90	23.31	23.49
			49	1	23.65	23.09	23.30
		25	0	2	23.07	22.48	22.38
			12	2	23.07	22.47	22.40
			25	2	22.98	22.45	22.19
		50	0	2	22.98	22.44	22.33

Conducted Power of LTE Band 25(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26115	Channel 26365	Channel 26615
15MHz	QPSK	1	0	0	24.87	24.44	24.27
			38	0	24.89	24.44	24.49
			74	0	24.49	24.19	24.28
		38	0	1	23.93	23.14	23.31
			18	1	23.93	23.17	23.45
			37	1	23.60	22.91	23.27
		75	0	1	23.99	23.45	23.49
	16QAM	1	0	1	23.94	23.17	23.25
			38	1	23.91	23.18	23.46
			74	1	23.58	22.89	23.23
		38	0	2	23.92	23.14	23.29
			18	2	23.92	23.19	23.46
			37	2	23.56	22.87	23.24
		75	0	2	22.99	22.42	22.34
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26140	Channel 26365	Channel 26590
20MHz	QPSK	1	0	0	24.80	24.20	24.14
			49	0	25.03	24.53	24.71
			99	0	24.37	23.97	24.17
		50	0	1	24.01	23.44	23.41
			25	1	23.97	23.42	23.41
			50	1	23.66	23.34	23.25
		100	0	1	23.82	23.39	23.29
	16QAM	1	0	1	23.82	23.09	22.98
			49	1	24.04	23.39	23.43
			99	1	23.41	22.76	22.98
		50	0	2	23.00	22.45	22.40
			25	2	23.03	22.49	22.42
			50	2	22.68	22.40	22.25
		100	0	2	22.81	22.38	22.29

Conducted Power of LTE Band 26(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26797	Channel 26915	Channel 27033
1.4MHz	QPSK	1	0	0	23.75	23.85	24.01
			2	0	23.94	24.03	**24.22**
			5	0	23.74	23.83	24.15
		3	0	0	23.81	23.90	23.92
			1	0	23.80	23.87	23.93
			3	0	23.82	23.87	23.95
		6	0	1	22.78	22.93	23.06
	16QAM	1	0	1	22.53	22.67	22.60
			2	1	22.68	22.83	22.82
			5	1	22.52	22.66	22.58
		3	0	1	22.64	22.66	22.69
			1	1	22.65	22.65	22.69
			3	1	22.62	22.67	22.70
		6	0	2	21.68	21.86	21.75
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26805	Channel 26915	Channel 27025
3MHz	QPSK	1	0	0	23.78	23.89	23.93
			8	0	23.82	23.87	24.06
			14	0	23.83	23.87	24.18
		8	0	1	22.73	22.90	22.91
			4	1	22.77	22.90	22.92
			7	1	22.77	22.93	22.92
		15	0	1	22.72	22.87	22.88
	16QAM	1	0	1	22.59	22.84	22.72
			8	1	22.58	22.82	22.69
			14	1	22.57	22.84	22.63
		8	0	2	21.80	21.86	21.83
			4	2	21.76	21.84	21.85
			7	2	21.79	21.85	21.79
		15	0	2	21.73	21.84	21.77

Conducted Power of LTE Band 26(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26815	Channel 26915	Channel 27015
5MHz	QPSK	1	0	0	23.67	23.82	23.79
			12	0	23.82	24.01	23.97
			24	0	23.73	23.87	24.03
		12	0	1	22.73	22.87	22.91
			6	1	22.72	22.90	22.89
			13	1	22.73	22.85	22.75
		25	0	1	22.75	22.90	22.86
	16QAM	1	0	1	22.72	22.69	22.81
			12	1	22.80	22.79	22.91
			24	1	22.76	22.71	22.80
		12	0	2	21.82	21.81	21.93
			6	2	21.84	21.83	21.91
			13	2	21.87	21.79	21.78
		25	0	2	21.81	21.86	21.80
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26840	Channel 26915	Channel 26990
10MHz	QPSK	1	0	0	23.76	23.82	23.94
			24	0	23.98	24.02	24.06
			49	0	23.83	23.90	24.10
		25	0	1	22.90	22.98	23.02
			12	1	22.87	22.98	23.03
			25	1	22.85	22.87	22.85
		50	0	1	22.88	22.96	22.94
	16QAM	1	0	1	22.75	22.77	22.71
			24	1	22.94	22.98	22.85
			49	1	22.81	22.87	22.69
		25	0	2	21.91	21.91	22.03
			12	2	21.90	21.94	21.98
			25	2	21.80	21.82	21.86
		50	0	2	21.91	21.88	21.92

Conducted Power of LTE Band 26(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26865	Channel 26915	Channel 26965
15MHz	QPSK	1	0	0	23.64	23.78	23.78
			38	0	23.80	23.90	23.95
			74	0	23.75	23.80	23.93
		38	0	1	22.76	22.52	22.73
			18	1	22.88	22.61	22.93
			37	1	22.81	22.53	22.77
		75	0	1	22.93	22.96	23.01
	16QAM	1	0	1	22.76	22.53	22.75
			38	1	22.91	22.62	22.93
			74	1	22.82	22.55	22.78
		38	0	2	22.76	22.52	22.75
			18	2	22.88	22.66	22.93
			37	2	22.80	22.54	22.78
		75	0	2	21.85	21.88	21.91

Conducted Power of LTE Band 41(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 39675	Channel 40620	Channel 41565
5MHz	QPSK	1	0	0	22.64	23.12	24.44
			12	0	22.83	23.23	24.59
			24	0	23.02	23.31	24.48
		12	0	1	21.63	22.09	23.49
			6	1	21.66	22.05	23.43
			13	1	21.86	22.20	23.47
		25	0	1	21.77	23.38	23.52
	16QAM	1	0	1	21.51	22.00	23.33
			12	1	21.69	22.09	23.46
			24	1	21.91	22.19	23.34
		12	0	2	20.70	21.10	22.43
			6	2	20.65	21.08	22.40
			13	2	20.85	21.56	22.44
		25	0	2	20.79	22.35	22.47
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 39700	Channel 40620	Channel 41540
10MHz	QPSK	1	0	0	24.22	24.40	24.50
			24	0	24.52	24.69	24.79
			49	0	24.21	24.41	24.56
		25	0	1	23.20	23.45	23.59
			12	1	23.18	23.46	23.61
			25	1	23.21	23.51	23.59
		50	0	1	23.20	23.51	23.60
	16QAM	1	0	1	22.92	23.37	23.50
			24	1	23.25	23.65	23.74
			49	1	22.97	23.37	23.50
		25	0	2	22.22	22.43	22.55
			12	2	22.22	22.43	22.57
			25	2	22.26	22.50	22.53
		50	0	2	22.24	22.51	22.55

Conducted Power of LTE Band 41(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 39725	Channel 40620	Channel 41515
15MHz	QPSK	1	0	0	23.96	24.33	24.46
			38	0	24.12	24.42	24.50
			74	0	23.88	24.30	24.43
		38	0	1	23.06	23.30	23.42
			18	1	23.18	23.41	23.47
			37	1	23.01	23.26	23.39
		75	0	1	23.20	23.52	23.65
	16QAM	1	0	1	23.08	23.30	23.41
			38	1	23.14	23.37	23.45
			74	1	23.01	23.29	23.38
		38	0	2	23.05	23.32	23.44
			18	2	23.17	23.38	23.47
			37	2	22.98	23.27	23.39
		75	0	2	22.15	22.44	22.51
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 39750	Channel 40620	Channel 41490
20MHz	QPSK	1	0	0	24.10	24.24	24.47
			49	0	24.53	24.77	**24.84**
			99	0	24.00	24.26	24.43
		50	0	1	23.27	23.46	23.63
			25	1	23.28	23.42	23.64
			50	1	23.27	23.59	23.59
		100	0	1	23.24	23.50	23.60
	16QAM	1	0	1	23.12	23.06	23.26
			49	1	23.57	23.63	23.67
			99	1	23.10	23.09	23.26
		50	0	2	22.35	22.48	22.58
			25	2	22.35	22.46	22.60
			50	2	22.30	22.60	22.53
		100	0	2	22.26	22.52	22.56

Conducted Power of LTE Band 66(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 131979	Channel 132322	Channel 132665
1.4MHz	QPSK	1	0	0	24.54	24.40	24.32
			2	0	24.70	24.56	24.47
			5	0	24.53	24.45	24.36
		3	0	0	24.40	24.41	24.42
			1	0	24.40	24.44	24.38
			3	0	24.43	24.44	24.44
		6	0	1	23.54	23.53	23.39
	16QAM	1	0	1	23.09	23.16	23.13
			2	1	23.26	23.36	23.30
			5	1	23.10	23.18	23.14
		3	0	1	23.17	23.22	23.27
			1	1	23.18	23.24	23.30
			3	1	23.22	23.19	23.29
		6	0	2	22.27	22.37	22.24
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 131987	Channel 132322	Channel 132657
3MHz	QPSK	1	0	0	24.61	24.42	24.37
			8	0	24.67	24.46	24.43
			14	0	24.68	24.41	24.42
		8	0	1	23.50	23.46	23.37
			4	1	23.49	23.47	23.36
			7	1	23.47	23.44	23.38
		15	0	1	23.40	23.37	23.35
	16QAM	1	0	1	23.17	23.39	23.17
			8	1	23.17	23.39	23.17
			14	1	23.16	23.32	23.19
		8	0	2	22.40	22.42	22.31
			4	2	22.38	22.41	22.31
			7	2	22.40	22.32	22.30
		15	0	2	22.28	22.35	22.23

Conducted Power of LTE Band 66(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 131997	Channel 132322	Channel 132647
5MHz	QPSK	1	0	0	24.46	24.37	24.20
			12	0	24.65	24.49	24.37
			24	0	24.52	24.35	24.32
		12	0	1	23.35	23.38	23.31
			6	1	23.37	23.37	23.36
			13	1	23.36	23.33	23.34
		25	0	1	23.36	23.35	23.35
	16QAM	1	0	1	23.27	23.24	23.24
			12	1	23.40	23.31	23.37
			24	1	23.34	23.17	23.29
		12	0	2	22.37	22.31	22.40
			6	2	22.35	22.34	22.36
			13	2	22.40	22.29	22.40
		25	0	2	22.35	22.31	22.31
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 132022	Channel 132322	Channel 132622
10MHz	QPSK	1	0	0	25.07	24.40	24.38
			24	0	24.67	24.57	24.48
			49	0	24.58	24.33	24.45
		25	0	1	23.55	23.48	23.44
			12	1	23.48	23.50	23.39
			25	1	23.51	23.47	23.38
		50	0	1	23.52	23.45	23.42
	16QAM	1	0	1	23.23	23.42	23.08
			24	1	23.32	23.48	23.25
			49	1	23.31	23.24	23.17
		25	0	2	22.53	22.42	22.40
			12	2	22.53	22.39	22.41
			25	2	22.59	22.42	22.39
		50	0	2	22.51	22.41	22.42

Conducted Power of LTE Band 66(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 132047	Channel 132322	Channel 132597
15MHz	QPSK	1	0	0	24.40	24.38	24.18
			38	0	24.55	24.45	24.31
			74	0	24.36	24.23	24.26
		38	0	1	23.36	23.34	23.14
			18	1	23.54	23.34	23.22
			37	1	23.49	23.04	23.24
		75	0	1	23.70	23.51	23.49
	16QAM	1	0	1	23.32	23.37	23.12
			38	1	23.55	23.36	23.34
			74	1	23.46	23.02	23.33
		38	0	2	23.34	23.37	23.11
			18	2	23.57	23.35	23.27
			37	2	23.49	23.06	23.28
		75	0	2	22.68	22.34	22.37
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 132072	Channel 132322	Channel 132572
20MHz	QPSK	1	0	0	24.82	24.33	24.03
			49	0	**25.21**	24.75	24.45
			99	0	24.40	24.15	24.17
		50	0	1	23.71	23.47	23.38
			25	1	23.70	23.45	23.39
			50	1	23.55	23.44	23.32
		100	0	1	23.67	23.44	23.39
	16QAM	1	0	1	23.54	23.26	23.01
			49	1	23.69	23.47	23.50
			99	1	23.32	22.87	23.33
		50	0	2	22.72	22.47	22.31
			25	2	22.69	22.44	22.35
			50	2	22.63	22.38	22.32
		100	0	2	22.69	22.36	22.32

Conducted 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	25.06	24.80	24.91
			12	0	**25.16**	24.76	24.95
			24	0	24.99	24.72	24.84
		12	0	1	23.88	23.71	23.87
			6	1	23.92	23.69	23.83
			13	1	23.97	23.85	23.84
		25	0	1	23.99	23.80	23.90
	16QAM	1	0	1	23.93	23.70	23.70
			12	1	24.03	23.78	23.82
			24	1	23.84	23.70	23.69
		12	0	2	22.88	22.65	22.82
			6	2	22.84	22.69	22.82
			13	2	22.97	22.77	22.81
		25	0	2	22.94	22.76	22.88
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 133172	Channel 133297	Channel 133422
10MHz	QPSK	1	0	0	24.32	24.28	24.98
			24	0	23.69	23.87	24.79
			49	0	23.81	24.19	24.21
		25	0	1	23.86	23.80	24.11
			12	1	23.85	23.81	24.10
			25	1	23.87	23.95	23.93
		50	0	1	23.87	23.87	24.00
	16QAM	1	0	1	24.00	23.74	23.95
			24	1	23.79	23.75	24.04
			49	1	23.80	23.72	23.86
		25	0	2	22.76	22.85	23.00
			12	2	22.78	22.80	23.03
			25	2	22.82	22.95	22.89
		50	0	2	22.78	22.78	22.95

Conducted 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	24.56	24.45	24.86
			38	0	23.89	23.73	24.71
			74	0	24.06	24.44	24.24
		38	0	1	23.97	23.91	23.82
			18	1	23.85	23.91	23.94
			37	1	23.82	23.84	23.82
		75	0	1	23.99	23.89	23.98
	16QAM	1	0	1	23.98	23.92	23.87
			38	1	23.96	23.92	23.93
			74	1	23.84	23.85	23.77
		38	0	2	23.95	23.88	23.86
			18	2	23.89	23.91	23.95
			37	2	23.79	23.88	23.79
		75	0	2	22.87	22.84	22.91
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 133222	Channel 133322	Channel 133372
20MHz	QPSK	1	0	0	24.72	24.75	24.78
			49	0	24.09	24.39	24.83
			99	0	23.97	24.70	24.20
		50	0	1	24.03	23.80	23.80
			25	1	23.97	23.80	23.84
			50	1	24.12	23.94	23.85
		100	0	1	24.06	23.83	23.81
	16QAM	1	0	1	23.73	23.71	23.83
			49	1	24.03	24.01	24.21
			99	1	23.60	23.72	23.82
		50	0	2	22.94	22.77	22.83
			25	2	22.93	22.76	22.85
			50	2	23.06	22.91	22.77
		100	0	2	22.99	22.79	22.78

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

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	-	-	-	-	-

5GHz WIFI

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	12.586	12.467	12.330	12.222	12.093	12.009	11.924	11.832
	40	5200	12.606	12.484	12.356	12.247	12.116	12.026	11.946	11.857
	44	5220	12.715	12.596	12.467	12.354	12.223	12.132	12.053	11.965
	48	5240	12.828	12.702	12.579	12.468	12.334	12.248	12.169	12.071
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (20)	36	5180	12.707	12.581	12.450	12.343	12.215	12.124	12.046	11.955
	40	5200	12.464	12.344	12.212	12.106	11.972	11.889	11.803	11.714
	44	5220	12.598	12.475	12.347	12.239	12.100	12.017	11.938	11.844
	48	5240	12.832	12.712	12.588	12.478	12.343	12.251	12.172	12.083
802.11n (40)	38	5190	**12.932**	12.818	12.686	12.574	12.448	12.352	12.279	12.182
	46	5230	10.767	10.643	10.513	10.402	10.276	10.185	10.104	10.018

2.4 GHz WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	15.283
		06	2437	15.582
		11	2462	**15.800**
802.11g	6	01	2412	15.182
		06	2437	14.939
		11	2462	14.911
802.11n(20)	6.5	01	2412	14.783
		06	2437	14.774
		11	2462	14.945
802.11n(40)	13.5	03	2422	13.901
		06	2437	13.725
		09	2452	13.913

Bluetooth_V3.0

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	7.263
	39	2441	7.491
	78	2480	**7.759**
π /4-DQPSK	0	2402	6.480
	39	2441	6.778
	78	2480	7.030
8-DPSK	0	2402	6.587
	39	2441	6.900
	78	2480	7.156

Bluetooth_V4.0

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	7.031
	19	2440	7.285
	39	2480	**7.583**

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 SAR was performed with the device 10mm from the phantom, 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 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.
7. 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)]
8. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result
9. Per KDB 941225 D05v02r03, 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.
10. Per KDB 941125 D05v02r03, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.

11. Per KDB 941125 D05v02r03. 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.
12. Per KDB 941125 D05v02r03. 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 D05v02r02, 16QAM SAR testing is not required.
13. Per KDB 941125 D05v02r03. 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 D05v02r03, smaller bandwidth SAR testing is not required.

13.1.3. Test Result

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 47.9					
Product: LTE smartphone									
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	190	836.6	-1.06	0.430	32.10	32.07	0.433	1.6
Left Tilt	voice	190	836.6	1.15	0.389	32.10	32.07	0.392	1.6
Right Cheek	voice	190	836.6	-1.09	**0.477**	32.10	32.07	**0.480**	1.6
Right Tilt	voice	190	836.6	1.10	0.316	32.10	32.07	0.318	1.6
Body back	voice	190	836.6	-1.07	**0.574**	32.10	32.07	**0.578**	1.6
Body front	voice	190	836.6	1.13	0.544	32.10	32.07	0.548	1.6
Body back	GPRS-2 slot	128	824.2	-1.18	**1.074**	29.40	29.11	**1.148**	1.6
Body back	GPRS-2 slot	190	836.6	1.10	0.994	29.40	29.34	1.008	1.6
Body back	GPRS-2 slot	251	848.8	-1.07	0.994	29.40	29.28	1.022	1.6
Body front	GPRS-2 slot	128	824.2	1.15	0.966	29.40	29.11	1.033	1.6
Body front	GPRS-2 slot	190	836.6	-1.09	0.965	29.40	29.34	0.978	1.6
Body front	GPRS-2 slot	251	848.8	1.14	0.976	29.40	29.28	1.003	1.6
Edge 1 (Top)	GPRS-2 slot	190	836.6	/	<0.001	29.40	29.34	<0.001 #	1.6
Edge 2(Right)	GPRS-2 slot	190	836.6	-1.11	0.697	29.40	29.34	0.707	1.6
Edge 3(Bottom)	GPRS-2 slot	190	836.6	1.05	0.247	29.40	29.34	0.250	1.6
Edge 4(Left)	GPRS-2 slot	190	836.6	-1.12	0.779	29.40	29.34	0.790	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 56.2					
Product: LTE smartphone									
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	-0.97	0.314	30.00	29.79	0.330	1.6
Left Tilt	voice	661	1880.0	0.84	0.182	30.00	29.79	0.191	1.6
Right Cheek	voice	661	1880.0	-0.95	**0.511**	30.00	29.79	**0.536**	1.6
Right Tilt	voice	661	1880.0	0.92	0.172	30.00	29.79	0.181	1.6
Body back	voice	661	1880.0	-0.84	**0.491**	30.00	29.79	**0.515**	1.6
Body front	voice	661	1880.0	0.96	0.432	30.00	29.79	0.453	1.6
Body back	GPRS-4 slot	512	1850.2	-0.99	0.909	25.70	25.48	0.956	1.6
Body back	GPRS-4 slot	661	1880	0.85	1.102	25.70	25.26	1.219	1.6
Body back	GPRS-4 slot	810	1909.8	-0.98	**1.201**	25.70	25.62	**1.223**	1.6
Body front	GPRS-4 slot	661	1880.0	0.87	0.698	25.70	25.26	0.772	1.6
Edge 1 (Top)	GPRS-4 slot	661	1880.0	/	<0.001	25.70	25.26	<0.001 #	1.6
Edge 2(Right)	GPRS-4 slot	661	1880.0	0.86	0.341	25.70	25.26	0.377	1.6
Edge 3(Bottom)	GPRS-4 slot	661	1880.0	-0.93	0.777	25.70	25.26	0.860	1.6
Edge 4(Left)	GPRS-4 slot	661	1880.0	0.89	0.335	25.70	25.26	0.371	1.6
Body back+Ear.	GPRS-4 slot	512	1850.2	-0.82	0.985	25.70	25.48	1.036	1.6
Body back+Ear.	GPRS-4 slot	661	1880	-0.96	1.027	25.70	25.26	1.137	1.6
Body back+Ear.	GPRS-4 slot	810	1909.8	0.91	1.163	25.70	25.62	1.185	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show "<0.001W/Kg" in the report;

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 56.2					
Product: LTE smartphone									
Test Mode: WCDMA Band II 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	9400	1880	1.16	0.592	22.60	22.01	0.678	1.6
Left Tilt	RMC 12.2kbps	9400	1880	-1.27	0.317	22.60	22.01	0.363	1.6
Right Cheek	RMC 12.2kbps	9400	1880	1.19	**0.765**	22.60	22.01	**0.876**	1.6
Right Tilt	RMC 12.2kbps	9400	1880	-1.20	0.273	22.60	22.01	0.313	1.6
Body back	RMC 12.2kbps	9262	1852.4	1.14	1.008	22.60	22.57	1.015	1.6
Body back	RMC 12.2kbps	9400	1880	-1.25	**1.114**	22.60	22.01	**1.276**	1.6
Body back	RMC 12.2kbps	9538	1907.6	1.13	1.008	22.60	22.26	1.090	1.6
Body front	RMC 12.2kbps	9400	1880	1.28	0.614	22.60	22.01	0.703	1.6
Edge 1 (Top)	RMC 12.2kbps	9400	1880	/	<0.001	22.60	22.01	<0.001 #	1.6
Edge 2(Right)	RMC 12.2kbps	9400	1880	-1.19	0.255	22.60	22.01	0.292	1.6
Edge 3(Bottom)	RMC 12.2kbps	9400	1880	1.20	0.369	22.60	22.01	0.423	1.6
Edge 4(Left)	RMC 12.2kbps	9400	1880	-1.14	0.327	22.60	22.01	0.375	1.6
Body back+Ear	RMC 12.2kbps	9262	1852.4	1.02	0.985	22.60	22.57	0.992	1.6
Body back+Ear	RMC 12.2kbps	9400	1880	-1.14	1.006	22.60	22.01	1.152	1.6
Body back+Ear	RMC 12.2kbps	9538	1907.6	-1.03	0.962	22.60	22.26	1.040	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 59.5					
Product: LTE smartphone									
Test Mode: WCDMA Band IV 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	8662	1732.5	-0.88	**0.711**	22.60	22.20	**0.780**	1.6
Left Tilt	RMC 12.2kbps	8662	1732.5	0.75	0.226	22.60	22.20	0.248	1.6
Right Cheek	RMC 12.2kbps	8662	1732.5	-0.84	0.489	22.60	22.20	0.536	1.6
Right Tilt	RMC 12.2kbps	8662	1732.5	0.92	0.295	22.60	22.20	0.323	1.6
Body back	RMC 12.2kbps	8562	1712.5	-0.86	**1.260**	22.60	22.51	**1.286**	1.6
Body back	RMC 12.2kbps	8662	1732.5	0.89	0.977	22.60	22.20	1.071	1.6
Body back	RMC 12.2kbps	8763	1752.5	-0.73	0.998	22.60	22.06	1.130	1.6
Body front	RMC 12.2kbps	8562	1712.5	0.92	1.031	22.60	22.51	1.053	1.6
Body front	RMC 12.2kbps	8662	1732.5	-0.79	0.955	22.60	22.20	1.047	1.6
Body front	RMC 12.2kbps	8763	1752.5	0.87	0.941	22.60	22.06	1.066	1.6
Edge 1 (Top)	RMC 12.2kbps	8662	1732.5	/	<0.001	22.60	22.20	<0.001 #	1.6
Edge 2(Right)	RMC 12.2kbps	8662	1732.5	-0.76	0.706	22.60	22.20	0.774	1.6
Edge 3(Bottom)	RMC 12.2kbps	8662	1732.5	0.91	0.523	22.60	22.20	0.573	1.6
Edge 4(Left)	RMC 12.2kbps	8662	1732.5	-0.75	0.192	22.60	22.20	0.211	1.6
Body back + Ear.	RMC 12.2kbps	8562	1712.5	0.82	0.317	22.60	22.51	0.324	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show "<0.001W/Kg" in the report;

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 47.9					
Product: LTE smartphone									
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	836.6	-0.57	0.423	22.40	22.07	0.456	1.6
Left Tilt	RMC 12.2kbps	4183	836.6	0.44	0.400	22.40	22.07	0.432	1.6
Right Cheek	RMC 12.2kbps	4183	836.6	-0.55	**0.505**	22.40	22.07	**0.545**	1.6
Right Tilt	RMC 12.2kbps	4183	836.6	0.62	0.351	22.40	22.07	0.379	1.6
Body back	RMC 12.2kbps	4183	836.6	-0.59	**0.633**	22.40	22.07	**0.683**	1.6
Body front	RMC 12.2kbps	4183	836.6	0.42	0.569	22.40	22.07	0.614	1.6
Edge 1 (Top)	RMC 12.2kbps	4183	836.6	/	<0.001	22.40	22.07	<0.001 #	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.6	0.53	0.431	22.40	22.07	0.465	1.6
Edge 3(Bottom)	RMC 12.2kbps	4183	836.6	-0.41	0.161	22.40	22.07	0.174	1.6
Edge 4(Left)	RMC 12.2kbps	4183	836.6	0.68	0.537	22.40	22.07	0.579	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 48.8					
Product: LTE smartphone									
Test Mode: CDMA BAND 0 with 1xRTT 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	1xRTT	384	836.52	-0.48	**0.301**	24.20	24.20	**0.301**	1.6
Left Tilt	1xRTT	384	836.52	0.52	0.184	24.20	24.20	0.184	1.6
Right Cheek	1xRTT	384	836.52	-0.49	0.264	24.20	24.20	0.264	1.6
Right Tilt	1xRTT	384	836.52	0.56	0.226	24.20	24.20	0.226	1.6
Body back	1xRTT	384	836.52	-0.53	**0.523**	24.20	24.20	**0.523**	1.6
Body front	1xRTT	384	836.52	0.47	0.291	24.20	24.20	0.291	1.6
Edge 1 (Top)	1xRTT	384	836.52	/	<0.001	24.20	24.20	<0.001 #	1.6
Edge 2(Right)	1xRTT	384	836.52	-0.46	0.256	24.20	24.20	0.256	1.6
Edge 3(Bottom)	1xRTT	384	836.52	0.61	0.138	24.20	24.20	0.138	1.6
Edge 4(Left)	1xRTT	384	836.52	-0.55	0.118	24.20	24.20	0.118	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 46.1					
Product: LTE smartphone									
Test Mode: CDMA BAND 1 with 1xRTT 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	1xRTT	600	1880	0.97	**0.399**	23.90	23.60	**0.428**	1.6
Left Tilt	1xRTT	600	1880	-0.89	0.151	23.90	23.60	0.162	1.6
Right Cheek	1xRTT	600	1880	-0.85	0.282	23.90	23.60	0.302	1.6
Right Tilt	1xRTT	600	1880	0.94	0.221	23.90	23.60	0.237	1.6
Body back	1xRTT	600	1880	-0.93	**0.471**	23.90	23.60	**0.505**	1.6
Body front	1xRTT	600	1880	0.86	0.394	23.90	23.60	0.422	1.6
Edge 1 (Top)	1xRTT	600	1880	/	<0.001	23.90	23.60	<0.001 #	1.6
Edge 2(Right)	1xRTT	600	1880	-0.82	0.145	23.90	23.60	0.155	1.6
Edge 3(Bottom)	1xRTT	600	1880	-0.94	0.385	23.90	23.60	0.413	1.6
Edge 4(Left)	1xRTT	600	1880	0.93	0.162	23.90	23.60	0.174	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 48.8					
Product: LTE smartphone									
Test Mode: CDMA BAND 10 with 1xRTT 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	1xRTT	580	820	-0.53	**0.367**	24.30	24.30	**0.367**	1.6
Left Tilt	1xRTT	580	820	0.59	0.266	24.30	24.30	0.266	1.6
Right Cheek	1xRTT	580	820	-0.64	0.290	24.30	24.30	0.290	1.6
Right Tilt	1xRTT	580	820	-0.67	0.258	24.30	24.30	0.258	1.6
Body back	1xRTT	580	820	0.48	**0.332**	24.30	24.30	**0.332**	1.6
Body front	1xRTT	580	820	-0.52	0.281	24.30	24.30	0.281	1.6
Edge 1 (Top)	1xRTT	580	820	/	<0.001	24.30	24.30	<0.001 #	1.6
Edge 2(Right)	1xRTT	580	820	-0.55	0.190	24.30	24.30	0.190	1.6
Edge 3(Bottom)	1xRTT	580	820	0.61	0.179	24.30	24.30	0.179	1.6
Edge 4(Left)	1xRTT	580	820	-0.49	0.283	24.30	24.30	0.283	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 52.7						
Product: LTE smartphone												
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	1.06	0.254	25.50	23.90	0.367	1.6
		Left Tilt	1	0	18900	1880	-1.08	0.171	25.50	23.90	0.247	1.6
		Right Cheek	1	0	18900	1880	1.02	**0.419**	25.50	23.90	**0.606**	1.6
		Right Tilt	1	0	18900	1880	-1.05	0.138	25.50	23.90	0.199	1.6
		Body back	1	0	18700	1860	0.98	0.646	25.50	24.44	0.825	1.6
		Body back	1	0	18900	1880	1.09	0.633	25.50	23.90	0.915	1.6
		Body back	1	0	19100	1900	-0.97	**0.646**	25.50	23.81	**0.953**	1.6
		Body front	1	0	18900	1880	-1.03	0.523	25.50	23.90	0.756	1.6
		Edge 1 (Top)	1	0	18900	1880	/	<0.001	25.50	23.90	<0.001 #	1.6
		Edge 2(Right)	1	0	18900	1880	1.07	0.147	25.50	23.90	0.212	1.6
		Edge 3(Bottom)	1	0	18900	1880	-1.04	0.479	25.50	23.90	0.692	1.6
		Edge 4(Left)	1	0	18900	1880	-1.01	0.186	25.50	23.90	0.269	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.
· Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 42.7							
Product: LTE smartphone													
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	50%	0	18900	1880	-0.95	**0.593**	23.70	23.11	**0.679**	1.6
		Left Tilt	50%	0	18900	1880	0.96	0.215	23.70	23.11	0.246	1.6
		Right Cheek	50%	0	18900	1880	-1.03	0.434	23.70	23.11	0.497	1.6
		Right Tilt	50%	0	18900	1880	1.07	0.221	23.70	23.11	0.253	1.6
		Body back	50%	0	18700	1860	-0.99	0.912	23.70	23.64	0.925	1.6
		Body back	50%	0	18900	1880	0.92	0.953	23.70	23.11	1.092	1.6
		Body back	50%	0	19100	1900	-0.96	0.906	23.70	23.10	1.040	1.6
		Body front	50%	0	18700	1860	1.05	0.830	23.70	23.64	0.842	1.6
		Body front	50%	0	18900	1880	-1.03	0.807	23.70	23.11	0.924	1.6
		Body front	50%	0	19100	1900	1.01	0.827	23.70	23.10	0.950	1.6
		Edge 1 (Top)	50%	0	18900	1880	/	<0.001	23.70	23.11	<0.001 #	1.6
		Edge 2(Right)	50%	0	18900	1880	-1.09	0.223	23.70	23.11	0.255	1.6
		Edge 3(Bottom)	50%	0	18700	1860	0.97	1.002	23.70	23.64	1.016	1.6
		Edge 3(Bottom)	50%	0	18900	1880	-0.91	0.909	23.70	23.11	1.041	1.6
		Edge 3(Bottom)	50%	0	19100	1900	-0.99	**1.004**	23.70	23.10	**1.153**	1.6
		Edge 4(Left)	50%	0	18900	1880	0.97	0.265	23.70	23.11	0.304	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.
· Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 59.5							
Product: LTE smartphone													
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	-1.36	0.341	25.00	24.26	0.404	1.6
		Left Tilt	1	0	20175	1732.5	1.26	0.210	25.00	24.26	0.249	1.6
		Right Cheek	1	0	20175	1732.5	-1.30	**0.357**	25.00	24.26	**0.423**	1.6
		Right Tilt	1	0	20175	1732.5	1.27	0.164	25.00	24.26	0.194	1.6
		Body back	1	0	20050	1720	-1.34	0.799	25.00	24.32	0.934	1.6
		Body back	1	0	20175	1732.5	1.29	**0.812**	25.00	24.26	**0.963**	1.6
		Body back	1	0	20300	1745	-1.28	0.776	25.00	24.33	0.905	1.6
		Body front	1	0	20175	1732.5	1.25	0.569	25.00	24.26	0.675	1.6
		Edge 1 (Top)	1	0	20175	1732.5	/	<0.001	25.00	24.26	<0.001 #	1.6
		Edge 2(Right)	1	0	20175	1732.5	-1.27	0.338	25.00	24.26	0.401	1.6
		Edge 3(Bottom)	1	0	20175	1732.5	1.31	0.289	25.00	24.26	0.343	1.6
		Edge 4(Left)	1	0	20175	1732.5	-1.26	0.125	25.00	24.26	0.148	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show "<0.001W/Kg" in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 46.1							
Product: LTE smartphone													
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	50%	0	20175	1732.5	-1.16	**0.472**	23.70	23.55	**0.489**	1.6
		Left Tilt	50%	0	20175	1732.5	-1.06	0.316	23.70	23.55	0.327	1.6
		Right Cheek	50%	0	20175	1732.5	1.10	0.202	23.70	23.55	0.209	1.6
		Right Tilt	50%	0	20175	1732.5	1.07	0.335	23.70	23.55	0.347	1.6
		Body back	50%	0	20175	1732.5	-1.19	**0.764**	23.70	23.55	**0.791**	1.6
		Body front	50%	0	20175	1732.5	-1.05	0.568	23.70	23.55	0.588	1.6
		Edge 1 (Top)	50%	0	20175	1732.5	/	<0.001	23.70	23.55	<0.001 #	1.6
		Edge 2(Right)	50%	0	20175	1732.5	1.17	0.703	23.70	23.55	0.728	1.6
		Edge 3(Bottom)	50%	0	20175	1732.5	-1.01	0.534	23.70	23.55	0.553	1.6
		Edge 4(Left)	50%	0	20175	1732.5	-1.16	0.202	23.70	23.55	0.209	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show "<0.001W/Kg" in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15					Relative Humidity (%): 48.6								
Product: LTE smartphone													
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	-0.46	0.258	24.50	23.85	0.300	1.6
		Left Tilt	1	0	20525	836.5	0.54	0.217	24.50	23.85	0.252	1.6
		Right Cheek	1	0	20525	836.5	-0.69	**0.336**	24.50	23.85	**0.390**	1.6
		Right Tilt	1	0	20525	836.5	0.55	0.274	24.50	23.85	0.318	1.6
		Body back	1	0	20525	836.5	-0.45	**0.410**	24.50	23.85	**0.476**	1.6
		Body front	1	0	20525	836.5	0.59	0.376	24.50	23.85	0.437	1.6
		Edge 1 (Top)	1	0	20525	836.5	/	<0.001	24.50	23.85	<0.001 #	1.6
		Edge 2(Right)	1	0	20525	836.5	-0.54	0.327	24.50	23.85	0.380	1.6
		Edge 3(Bottom)	1	0	20525	836.5	0.47	0.070	24.50	23.85	0.081	1.6
		Edge 4(Left)	1	0	20525	836.5	-0.53	0.369	24.50	23.85	0.429	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.
· Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15					Relative Humidity (%): 60.4								
Product: LTE smartphone													
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	50%	0	20525	836.5	0.26	0.458	23.00	22.82	0.477	1.6
		Left Tilt	50%	0	20525	836.5	-0.34	0.394	23.00	22.82	0.411	1.6
		Right Cheek	50%	0	20525	836.5	0.29	**0.501**	23.00	22.82	**0.522**	1.6
		Right Tilt	50%	0	20525	836.5	-0.35	0.405	23.00	22.82	0.422	1.6
		Body back	50%	0	20525	836.5	-0.45	**0.629**	23.00	22.82	**0.656**	1.6
		Body front	50%	0	20525	836.5	0.39	0.604	23.00	22.82	0.630	1.6
		Edge 1 (Top)	50%	0	20525	836.5	/	<0.001	23.00	22.82	<0.001 #	1.6
		Edge 2(Right)	50%	0	20525	836.5	0.34	0.529	23.00	22.82	0.551	1.6
		Edge 3(Bottom)	50%	0	20525	836.5	-0.47	0.100	23.00	22.82	0.104	1.6
		Edge 4(Left)	50%	0	20525	836.5	-0.33	0.597	23.00	22.82	0.622	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.
· Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 49.2							
Product: LTE smartphone													
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	1.06	0.287	24.00	23.62	0.313	1.6
		Left Tilt	1	0	23095	707.5	0.98	0.257	24.00	23.62	0.281	1.6
		Right Cheek	1	0	23095	707.5	0.97	**0.296**	24.00	23.62	**0.323**	1.6
		Right Tilt	1	0	23095	707.5	1.07	0.272	24.00	23.62	0.297	1.6
		Body back	1	0	23095	707.5	1.02	**0.458**	24.00	23.62	**0.500**	1.6
		Body front	1	0	23095	707.5	0.95	0.375	24.00	23.62	0.409	1.6
		Edge 1 (Top)	1	0	23095	707.5	/	<0.001	24.00	23.62	<0.001 #	1.6
		Edge 2(Right)	1	0	23095	707.5	1.03	0.264	24.00	23.62	0.288	1.6
		Edge 3(Bottom)	1	0	23095	707.5	1.07	0.045	24.00	23.62	0.049	1.6
		Edge 4(Left)	1	0	23095	707.5	0.98	0.294	24.00	23.62	0.321	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 47.3							
Product: LTE smartphone													
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	50%	0	23095	707.5	-0.88	0.459	23.50	23.18	0.494	1.6
		Left Tilt	50%	0	23095	707.5	0.95	0.384	23.50	23.18	0.413	1.6
		Right Cheek	50%	0	23095	707.5	-0.83	**0.487**	23.50	23.18	**0.524**	1.6
		Right Tilt	50%	0	23095	707.5	0.91	0.405	23.50	23.18	0.436	1.6
		Body back	50%	0	23095	707.5	-0.99	**0.681**	23.50	23.18	**0.733**	1.6
		Body front	50%	0	23095	707.5	0.85	0.608	23.50	23.18	0.654	1.6
		Edge 1 (Top)	50%	0	23095	707.5	/	<0.001	23.50	23.18	<0.001 #	1.6
		Edge 2(Right)	50%	0	23095	707.5	-0.90	0.411	23.50	23.18	0.442	1.6
		Edge 3(Bottom)	50%	0	23095	707.5	0.93	0.083	23.50	23.18	0.089	1.6
		Edge 4(Left)	50%	0	23095	707.5	-0.84	0.455	23.50	23.18	0.490	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 49.2							
Product: LTE smartphone													
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	-0.64	**0.515**	24.50	23.96	**0.583**	1.6
		Left Tilt	1	0	23230	782	0.62	0.412	24.50	23.96	0.467	1.6
		Right Cheek	1	0	23230	782	-0.69	0.447	24.50	23.96	0.506	1.6
		Right Tilt	1	0	23230	782	0.63	0.397	24.50	23.96	0.450	1.6
		Body back	1	0	23230	782	-0.78	**0.581**	24.50	23.96	**0.658**	1.6
		Body front	1	0	23230	782	0.74	0.567	24.50	23.96	0.642	1.6
		Edge 1 (Top)	1	0	23230	782	/	<0.001	24.50	23.96	<0.001 #	1.6
		Edge 2(Right)	1	0	23230	782	-0.64	0.360	24.50	23.96	0.408	1.6
		Edge 3(Bottom)	1	0	23230	782	-0.79	0.092	24.50	23.96	0.104	1.6
		Edge 4(Left)	1	0	23230	782	0.68	0.467	24.50	23.96	0.529	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 47.3							
Product: LTE smartphone													
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	50%	0	23230	782	0.56	**0.448**	23.50	23.12	**0.489**	1.6
		Left Tilt	50%	0	23230	782	-0.55	0.398	23.50	23.12	0.434	1.6
		Right Cheek	50%	0	23230	782	-0.59	0.390	23.50	23.12	0.426	1.6
		Right Tilt	50%	0	23230	782	0.48	0.333	23.50	23.12	0.363	1.6
		Body back	50%	0	23230	782	-0.62	0.543	23.50	23.12	0.593	1.6
		Body front	50%	0	23230	782	-0.68	0.515	23.50	23.12	0.562	1.6
		Edge 1 (Top)	50%	0	23230	782	/	<0.001	23.50	23.12	<0.001 #	1.6
		Edge 2(Right)	50%	0	23230	782	-0.63	0.427	23.50	23.12	0.466	1.6
		Edge 3(Bottom)	50%	0	23230	782	0.66	0.107	23.50	23.12	0.117	1.6
		Edge 4(Left)	50%	0	23230	782	-0.57	**0.554**	23.50	23.12	**0.605**	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 49.2							
Product: LTE smartphone													
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	-0.64	0.341	24.00	23.63	0.371	1.6
		Left Tilt	1	0	23790	710	0.69	0.281	24.00	23.63	0.306	1.6
		Right Cheek	1	0	23790	710	-0.58	**0.349**	24.00	23.63	**0.380**	1.6
		Right Tilt	1	0	23790	710	0.57	0.265	24.00	23.63	0.289	1.6
		Body back	1	0	23790	710	-0.52	**0.502**	24.00	23.63	**0.547**	1.6
		Body front	1	0	23790	710	-0.64	0.470	24.00	23.63	0.512	1.6
		Edge 1 (Top)	1	0	23790	710	/	<0.001	24.00	23.63	<0.001 #	1.6
		Edge 2(Right)	1	0	23790	710	0.63	0.370	24.00	23.63	0.403	1.6
		Edge 3(Bottom)	1	0	23790	710	-0.69	0.046	24.00	23.63	0.050	1.6
		Edge 4(Left)	1	0	23790	710	0.58	0.404	24.00	23.63	0.440	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15					Relative Humidity (%): 47.3								
Product: LTE smartphone													
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	50%	0	23790	710	0.38	0.590	23.30	22.75	0.670	1.6
		Left Tilt	50%	0	23790	710	-0.45	0.478	23.30	22.75	0.543	1.6
		Right Cheek	50%	0	23790	710	0.52	**0.617**	23.30	22.75	**0.700**	1.6
		Right Tilt	50%	0	23790	710	0.49	0.499	23.30	22.75	0.566	1.6
		Body back	50%	0	23790	710	0.36	**0.702**	23.30	22.75	**0.797**	1.6
		Body front	50%	0	23790	710	-0.43	0.689	23.30	22.75	0.782	1.6
		Edge 1 (Top)	50%	0	23790	710	/	<0.001	23.30	22.75	<0.001 #	1.6
		Edge 2(Right)	50%	0	23790	710	-0.45	0.413	23.30	22.75	0.469	1.6
		Edge 3(Bottom)	50%	0	23790	710	-0.53	0.068	23.30	22.75	0.077	1.6
		Edge 4(Left)	50%	0	23790	710	0.42	0.446	23.30	22.75	0.506	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 52.7							
Product: LTE smartphone													
Test Mode: LTE Band 25													
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	26365	1882.5	-0.98	0.298	25.50	24.20	0.402	1.6
		Left Tilt	1	0	26365	1882.5	0.85	0.179	25.50	24.20	0.241	1.6
		Right Cheek	1	0	26365	1882.5	-0.93	**0.474**	25.50	24.20	**0.639**	1.6
		Right Tilt	1	0	26365	1882.5	0.89	0.158	25.50	24.20	0.213	1.6
		Body back	1	0	26140	1860	-0.85	**0.753**	25.50	24.80	0.885	1.6
		Body back	1	0	26365	1882.5	-0.82	0.723	25.50	24.20	0.975	1.6
		Body back	1	0	26590	1905	0.90	0.752	25.50	24.14	**1.029**	1.6
		Body front	1	0	26365	1882.5	-0.95	0.497	25.50	24.20	0.670	1.6
		Edge 1 (Top)	1	0	26365	1882.5	/	<0.001	25.50	24.20	<0.001 #	1.6
		Edge 2(Right)	1	0	26365	1882.5	-0.86	0.164	25.50	24.20	0.221	1.6
		Edge 3(Bottom)	1	0	26365	1882.5	0.91	0.516	25.50	24.20	0.696	1.6
		Edge 4(Left)	1	0	26365	1882.5	-0.87	0.223	25.50	24.20	0.301	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show "<0.001W/Kg" in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 42.7							
Product: LTE smartphone													
Test Mode: LTE Band 25													
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	50%	0	26365	1882.5	0.88	**0.633**	24.10	23.44	**0.737**	1.6
		Left Tilt	50%	0	26365	1882.5	-0.85	0.202	24.10	23.44	0.235	1.6
		Right Cheek	50%	0	26365	1882.5	0.83	0.465	24.10	23.44	0.541	1.6
		Right Tilt	50%	0	26365	1882.5	-0.79	0.261	24.10	23.44	0.304	1.6
		Body back	50%	0	26140	1860	-0.85	1.087	24.10	24.01	1.110	1.6
		Body back	50%	0	26365	1882.5	0.72	**1.088**	24.10	23.44	1.267	1.6
		Body back	50%	0	26590	1905	0.70	1.088	24.10	23.41	**1.275**	1.6
		Body front	50%	0	26140	1860	-0.87	0.873	24.10	24.01	0.891	1.6
		Body front	50%	0	26365	1882.5	-0.75	0.871	24.10	23.44	1.014	1.6
		Body front	50%	0	26590	1905	0.90	0.872	24.10	23.41	1.022	1.6
		Edge 1 (Top)	50%	0	26365	1882.5	/	<0.001	24.10	23.44	<0.001 #	1.6
		Edge 2(Right)	50%	0	26365	1882.5	0.66	0.295	24.10	23.44	0.343	1.6
		Edge 3(Bottom)	50%	0	26365	1882.5	-0.81	0.716	24.10	23.44	0.834	1.6
		Edge 4(Left)	50%	0	26365	1882.5	-0.77	0.329	24.10	23.44	0.383	1.6
		Body back + Ear.	50%	0	26365	1882.5	0.69	0.896	24.10	23.44	1.043	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 48.6							
Product: LTE smartphone													
Test Mode: LTE Band 26													
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								
15	QPSK	Left Cheek	1	0	26865	831.5	0.87	0.746	24.50	23.64	**0.909**	1.6
		Left Cheek	1	0	26915	836.5	-0.92	0.738	24.50	23.78	0.871	1.6
		Left Cheek	1	0	26965	841.5	-0.90	**0.748**	24.50	23.78	0.883	1.6
		Left Tilt	1	0	26915	836.5	0.98	0.511	24.50	23.78	0.603	1.6
		Right Cheek	1	0	26915	836.5	-0.85	0.610	24.50	23.78	0.720	1.6
		Right Tilt	1	0	26915	836.5	0.79	0.486	24.50	23.78	0.574	1.6
		Body back	1	0	26865	831.5	0.88	**0.708**	24.50	23.64	**0.863**	1.6
		Body back	1	0	26915	836.5	-0.96	0.707	24.50	23.78	0.834	1.6
		Body back	1	0	26965	841.5	-0.89	0.708	24.50	23.78	0.836	1.6
		Body front	1	0	26915	836.5	0.93	0.658	24.50	23.78	0.777	1.6
		Edge 1 (Top)	1	0	26915	836.5	/	<0.001	24.50	23.78	<0.001 #	1.6
		Edge 2(Right)	1	0	26915	836.5	-0.94	0.514	24.50	23.78	0.607	1.6
		Edge 3(Bottom)	1	0	26915	836.5	0.82	0.189	24.50	23.78	0.223	1.6
		Edge 4(Left)	1	0	26915	836.5	-0.80	0.601	24.50	23.78	0.709	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 52.3							
Product: LTE smartphone													
Test Mode: LTE Band 26													
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								
15	QPSK	Left Cheek	38%	0	26915	836.5	0.62	**0.507**	23.00	22.52	**0.566**	1.6
		Left Tilt	38%	0	26915	836.5	-0.68	0.354	23.00	22.52	0.395	1.6
		Right Cheek	38%	0	26915	836.5	-0.75	0.469	23.00	22.52	0.524	1.6
		Right Tilt	38%	0	26915	836.5	0.69	0.410	23.00	22.52	0.458	1.6
		Body back	38%	0	26915	836.5	0.66	0.452	23.00	22.52	0.505	1.6
		Body front	38%	0	26915	836.5	0.73	0.588	23.00	22.52	0.657	1.6
		Edge 1 (Top)	38%	0	26915	836.5	/	<0.001	23.00	22.52	<0.001 #	1.6
		Edge 2(Right)	38%	0	26915	836.5	-0.64	0.535	23.00	22.52	0.598	1.6
		Edge 3(Bottom)	38%	0	26915	836.5	-0.72	0.170	23.00	22.52	0.190	1.6
		Edge 4(Left)	38%	0	26915	836.5	0.70	**0.598**	23.00	22.52	**0.668**	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15					Relative Humidity (%): 54.1								
Product: LTE smartphone													
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	40620	2593	0.95	0.493	25.00	24.24	0.587	1.6
		Left Tilt	1	0	40620	2593	-0.82	0.161	25.00	24.24	0.192	1.6
		Right Cheek	1	0	40620	2593	0.81	**0.668**	25.00	24.24	**0.796**	1.6
		Right Tilt	1	0	40620	2593	-0.96	0.110	25.00	24.24	0.131	1.6
		Body back	1	0	40620	2593	0.93	**0.654**	25.00	24.24	**0.779**	1.6
		Body front	1	0	40620	2593	-0.92	0.583	25.00	24.24	0.694	1.6
		Edge 1 (Top)	1	0	40620	2593	/	<0.001	25.00	24.24	<0.001 #	1.6
		Edge 2(Right)	1	0	40620	2593	0.97	0.520	25.00	24.24	0.619	1.6
		Edge 3(Bottom)	1	0	40620	2593	-0.85	0.391	25.00	24.24	0.466	1.6
		Edge 4(Left)	1	0	40620	2593	0.89	0.058	25.00	24.24	0.069	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show "<0.001W/Kg" in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 57.7							
Product: LTE smartphone													
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	50%	0	40620	2593	-0.73	0.321	23.70	23.46	0.339	1.6
		Left Tilt	50%	0	40620	2593	0.86	0.115	23.70	23.46	0.122	1.6
		Right Cheek	50%	0	40620	2593	-0.79	**0.507**	23.70	23.46	**0.536**	1.6
		Right Tilt	50%	0	40620	2593	0.88	0.116	23.70	23.46	0.123	1.6
		Body back	50%	0	40620	2593	-0.75	**0.732**	23.70	23.46	**0.774**	1.6
		Body front	50%	0	40620	2593	0.82	0.411	23.70	23.46	0.434	1.6
		Edge 1 (Top)	50%	0	40620	2593	/	<0.001	23.70	23.46	<0.001 #	1.6
		Edge 2(Right)	50%	0	40620	2593	-0.47	0.616	23.70	23.46	0.651	1.6
		Edge 3(Bottom)	50%	0	40620	2593	0.75	0.291	23.70	23.46	0.308	1.6
		Edge 4(Left)	50%	0	40620	2593	-0.19	0.053	23.70	23.46	0.056	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 59.5							
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	-1.15	**0.701**	25.00	24.33	**0.818**	1.6
		Left Tilt	1	0	132422	1755	1.13	0.142	25.00	24.33	0.166	1.6
		Right Cheek	1	0	132422	1755	-1.16	0.437	25.00	24.33	0.510	1.6
		Right Tilt	1	0	132422	1755	1.19	0.214	25.00	24.33	0.250	1.6
		Body back	1	0	132072	1720	-1.20	1.118	25.00	24.82	1.165	1.6
		Body back	1	0	132422	1755	1.24	1.091	25.00	24.33	1.273	1.6
		Body back	1	0	132572	1770	-1.27	**1.130**	25.00	24.03	**1.413**	1.6
		Body front	1	0	132422	1755	1.19	0.665	25.00	24.33	0.776	1.6
		Edge 1 (Top)	1	0	132422	1755	/	<0.001	25.00	24.33	<0.001 #	1.6
		Edge 2(Right)	1	0	132422	1755	1.28	0.255	25.00	24.33	0.298	1.6
		Edge 3(Bottom)	1	0	132422	1755	-1.25	0.772	25.00	24.33	0.901	1.6
		Edge 4(Left)	1	0	132422	1755	-1.23	0.119	25.00	24.33	0.139	1.6
		Body back + Ear.	1	0	132072	1720	1.03	1.091	25.00	24.82	1.137	1.6
		Body back + Ear.	1	0	132422	1755	-1.05	0.987	25.00	24.33	1.152	1.6
		Body back + Ear.	1	0	132572	1770	1.00	1.030	25.00	24.03	1.288	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show "<0.001W/Kg" in the report;

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 46.1							
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	50%	0	132422	1755	-1.05	**0.503**	24.00	23.47	**0.568**	1.6
		Left Tilt	50%	0	132422	1755	1.13	0.189	24.00	23.47	0.214	1.6
		Right Cheek	50%	0	132422	1755	-1.06	0.214	24.00	23.47	0.242	1.6
		Right Tilt	50%	0	132422	1755	-1.09	0.170	24.00	23.47	0.192	1.6
		Body back	50%	0	132072	1720	1.10	0.812	24.00	23.71	0.868	1.6
		Body back	50%	0	132422	1755	-1.04	0.832	24.00	23.47	0.940	1.6
		Body back	50%	0	132572	1770	1.07	0.819	24.00	23.38	0.945	1.6
		Body front	50%	0	132422	1755	-1.09	0.635	24.00	23.47	0.717	1.6
		Edge 1 (Top)	50%	0	132422	1755	/	<0.001	24.00	23.47	<0.001 #	1.6
		Edge 2(Right)	50%	0	132422	1755	1.08	0.392	24.00	23.47	0.443	1.6
		Edge 3(Bottom)	50%	0	132072	1720	0.99	0.758	24.00	23.71	0.810	1.6
		Edge 3(Bottom)	50%	0	132422	1755	1.15	**1.043**	24.00	23.47	**1.178**	1.6
		Edge 3(Bottom)	50%	0	132572	1770	-0.94	0.796	24.00	23.38	0.918	1.6
		Edge 4(Left)	50%	0	132422	1755	-1.03	0.152	24.00	23.47	0.172	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show "<0.001W/Kg" in the report;

SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 47.8							
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	-0.89	0.458	25.00	24.75	0.485	1.6
		Left Tilt	1	0	133322	683	0.92	0.222	25.00	24.75	0.235	1.6
		Right Cheek	1	0	133322	683	-0.86	**0.499**	25.00	24.75	**0.529**	1.6
		Right Tilt	1	0	133322	683	0.94	0.191	25.00	24.75	0.202	1.6
		Body back	1	0	133322	683	-0.85	**0.751**	25.00	24.75	**0.795**	1.6
		Body front	1	0	133322	683	0.87	0.626	25.00	24.75	0.663	1.6
		Edge 1 (Top)	1	0	133322	683	/	<0.001	25.00	24.75	<0.001 #	1.6
		Edge 2(Right)	1	0	133322	683	-0.83	0.490	25.00	24.75	0.519	1.6
		Edge 3(Bottom)	1	0	133322	683	0.90	0.061	25.00	24.75	0.065	1.6
		Edge 4(Left)	1	0	133322	683	-0.92	0.663	25.00	24.75	0.702	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 47.3						
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	50%	0	133322	683	0.69	**0.449**	24.10	23.80	**0.481**	1.6
		Left Tilt	50%	0	133322	683	-0.72	0.295	24.10	23.80	0.316	1.6
		Right Cheek	50%	0	133322	683	0.86	0.341	24.10	23.80	0.365	1.6
		Right Tilt	50%	0	133322	683	-0.74	0.264	24.10	23.80	0.283	1.6
		Body back	50%	0	133322	683	-0.75	**0.698**	24.10	23.80	**0.748**	1.6
		Body front	50%	0	133322	683	0.87	0.561	24.10	23.80	0.601	1.6
		Edge 1 (Top)	50%	0	133322	683	/	<0.001	24.10	23.80	<0.001 #	1.6
		Edge 2(Right)	50%	0	133322	683	0.73	0.449	24.10	23.80	0.481	1.6
		Edge 3(Bottom)	50%	0	133322	683	-0.60	0.062	24.10	23.80	0.066	1.6
		Edge 4(Left)	50%	0	133322	683	-0.72	0.531	24.10	23.80	0.569	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 51.9					
Product: LTE smartphone									
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	6	2437	-1.08	0.143	16.00	15.582	0.157	1.6
Left Tilt	DTS	6	2437	1.12	0.126	16.00	15.582	0.139	1.6
Right Cheek	DTS	6	2437	-1.06	**0.241**	16.00	15.582	**0.265**	1.6
Right Tilt	DTS	6	2437	1.10	0.181	16.00	15.582	0.199	1.6
Body back	DTS	6	2437	-1.04	**0.071**	16.00	15.582	**0.078**	1.6
Body front	DTS	6	2437	-1.15	0.046	16.00	15.582	0.051	1.6
Edge 1 (Top)	DTS	6	2437	1.09	0.069	16.00	15.582	0.076	1.6
Edge 2(Right)	DTS	6	2437	-1.13	0.015	16.00	15.582	0.017	1.6
Edge 3(Bottom)	DTS	6	2437	/	<0.001	16.00	15.582	<0.001 #	1.6
Edge 4(Left)	DTS	6	2437	-1.07	0.038	16.00	15.582	0.042	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.
- 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.
- Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show "<0.001W/Kg" in the report;

SAR MEASUREMENT								
Depth of Liquid (cm):>15			Relative Humidity (%): 52.8					
Product: LTE smartphone								
Test Mode: 5.2GHz 802.11n(40)								
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	38	5190	0.65	0.059	13.000	12.932	0.060	1.6
Left Tilt	38	5190	-0.54	0.077	13.000	12.932	0.078	1.6
Right Cheek	38	5190	0.52	0.079	13.000	12.932	0.080	1.6
Right Tilt	38	5190	-0.63	**0.086**	13.000	12.932	**0.087**	1.6
Body back	38	5190	0.69	0.051	13.000	12.932	0.052	1.6
Body front	38	5190	-0.51	0.035	13.000	12.932	0.036	1.6
Edge 1 (Top)	38	5190	-0.68	**0.068**	13.000	12.932	**0.069**	1.6
Edge 2(Right)	38	5190	0.57	0.029	13.000	12.932	0.029	1.6
Edge 3(Bottom)	38	5190	/	<0.001	13.000	12.932	<0.001 #	1.6
Edge 4(Left)	38	5190	-0.53	0.029	13.000	12.932	0.029	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.
·Due the antenna location and antenna performance results much lower SAR result ,and lower than the lowest system limit, then we show “<0.001W/Kg” in the report;

Repeated SAR										
Product: LTE smartphone										
Test Mode: GSM850& PCS1900& WCDMA Band II& WCDMA Band IV with GMSK & QPSK modulation										
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-2 slot	128	824.2	-1.16	1.061	--	--	--	--	1.6
Body back	GPRS-4 slot	810	1909.8	1.08	1.171	--	--	--	--	1.6
Body back	RMC 12.2kbps	9400	1880	-1.12	1.104	--	--	--	--	1.6
Body back	RMC 12.2kbps	8562	1712.5	0.95	1.046	-0.88	0.939	--	--	1.6

Repeated SAR												
Product: LTE smartphone												
Test Mode: LTE Band 2& LTE Band 4& LTE Band 25& LTE Band 26& LTE Band 66 with QPSK modulation												
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±5%)**	**Once SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Twice SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**								
20	QPSK	Body back	1	0	19100	1900	0.87	0.602	--	--	--	1.6
20	QPSK	Edge 3(Bottom)	50	0	19100	1900	-0.90	0.998	--	--	--	1.6
20	QPSK	Body back	1	0	20175	1732.5	-0.98	0.735	--	--	--	1.6
20	QPSK	Body back	1	0	26140	1860	-0.76	0.703	--	--	--	1.6
20	QPSK	Body back	50	0	26365	1882.5	0.75	0.973	--	--	--	1.6
15	QPSK	Left Cheek	1	0	26965	841.5	0.88	0.712	--	--	--	1.6
20	QPSK	Body back	1	0	132572	1770	1.12	1.124	--	--	--	1.6
20	QPSK	Edge 3(Bottom)	50	0	132422	1755	0.99	0.898	--	--	--	1.6

The second repeated SAR judge reference								
Product: LTE smartphone								
Test Mode: GSM850& PCS1900& WCDMA Band II & WCDMA Band IV &LTE Band 2& LTE Band 4& LTE Band 25& LTE Band 26& LTE Band 66 with GMSK & QPSK modulation								
Band	**Position**	**Mode**	**Ch.**	**Fr. (MHz)**	**Orignal SAR (1g) (W/kg)**	**First SAR (1g) (W/kg)**	**Ratio**	**Limit W/kg**
GSM850	Body back	GPRS-2 slot	128	824.2	1.074	1.061	1.012	<1.2
PCS1900	Body back	GPRS-4 slot	810	1909.8	1.201	1.171	1.026	<1.2
WCDMA Band II	Body back	RMC 12.2kbps	9400	1880	1.114	1.104	1.009	<1.2
WCDMA Band IV	Body back	RMC 12.2kbps	8562	1712.5	1.260	1.046	1.205	>1.2
LTE Band 2	Body back	1RB	19100	1900	0.646	0.602	1.073	<1.2
LTE Band 4	Body back	1 RB	20175	1732.5	0.812	0.735	1.105	<1.2
LTE Band 25	Body back	1 RB	26140	1860	0.753	0.703	1.071	<1.2
LTE Band 26	Left Cheek	1 RB	26965	841.5	0.748	0.712	1.051	<1.2
LTE Band 66	Body back	1 RB	132572	1770	1.130	1.124	1.005	<1.2
LTE Band 2	Edge 3(Bottom)	50% RB	19100	1900	1.004	0.998	1.006	<1.2
LTE Band 25	Body back	50% RB	26365	1882.5	1.088	0.973	1.118	<1.2
LTE Band 66	Edge 3(Bottom)	50% RB	132422	1755	1.043	0.898	1.161	<1.2

Note: 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. So the second repeated measurement is not required.

NO	Simultaneous state	Portable Handset		
		Head	Body-worn	Hotspot
1	GSM(voice)+ WLAN 2.4GHz (data) &5.2GHz (data)	Yes	Yes	-
2	GSM(voice)+ Bluetooth(data)	Yes	Yes	-
3	GSM (Data) + WLAN 2.4GHz (data) &5.2GHz (data)	-	Yes	Yes
4	GSM (Data) + Bluetooth(data)	-	Yes	Yes
5	WCDMA+ WLAN 2.4GHz (data) &5.2GHz (data)	Yes	Yes	Yes
6	WCDMA+ Bluetooth(data)	Yes	Yes	Yes
7	CDMA+ WLAN 2.4GHz (data) &5.2GHz (data)	Yes	Yes	Yes
8	CDMA+ Bluetooth(data)	Yes	Yes	Yes
9	LTE + WLAN 2.4GHz (data) &5.2GHz (data)	Yes	Yes	Yes
10	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.

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	8	6.310	0	0.265
	Body	8	6.310	10	0.132

Sum of the SAR for GSM 850 &2.4G 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	0.433	0.157		0.590	No
	Left Tilt	0.392	0.139		0.531	No
	Right Touch	0.480	0.265		0.745	No
	Right Tilt	0.318	0.199		0.517	No
	Left Touch	0.433		0.265	0.698	No
	Left Tilt	0.392		0.265	0.657	No
	Right Touch	0.480		0.265	0.745	No
	Right Tilt	0.318		0.265	0.583	No
Body-worn (voice)	Rear	0.578	0.078		0.656	No
		0.578		0.132	0.710	No
	Front	0.548	0.051		0.599	No
		0.548		0.132	0.680	No
Body-worn (Data)	Rear	1.148		0.132	1.280	No
		1.148	0.078		1.226	No
	Front	1.033		0.132	1.165	No
		1.033	0.051		1.084	No
Body-worn (Hotspot)	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.707	0.017		0.724	No
	Edge 3	0.250	<0.001 #		0.250	No
	Edge 4	0.790	0.042		0.832	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.707		0.132	0.839	No
	Edge 3	0.250		0.132	0.382	No
	Edge 4	0.790		0.132	0.922	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 “

Sum of the SAR for GSM 1900 &2.4G 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	0.330	0.157		0.487	No
	Left Tilt	0.191	0.139		0.330	No
	Right Touch	0.536	0.265		0.801	No
	Right Tilt	0.181	0.199		0.380	No
	Left Touch	0.330		0.265	0.595	No
	Left Tilt	0.191		0.265	0.456	No
	Right Touch	0.536		0.265	0.801	No
	Right Tilt	0.181		0.265	0.446	No
Body-worn (voice)	Rear	0.515	0.078		0.593	No
		0.515		0.132	0.647	No
	Front	0.453	0.051		0.504	No
		0.453		0.132	0.585	No
Body-worn (Data)	Rear	1.223		0.132	1.355	No
		1.223	0.078		1.301	No
	Front	0.772		0.132	0.904	No
		0.772	0.051		0.823	No
Body-worn (Hotspot)	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.377	0.017		0.394	No
	Edge 3	0.860	<0.001 #		0.860	No
	Edge 4	0.371	0.042		0.413	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.377		0.132	0.509	No
	Edge 3	0.860		0.132	0.992	No
	Edge 4	0.371		0.132	0.503	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 “

Sum of the SAR for WCDMA Band II &2.4G Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		WCDMA Band II	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.678	0.157		0.835	No
	Left Tilt	0.363	0.139		0.502	No
	Right Touch	0.876	0.265		1.141	No
	Right Tilt	0.313	0.199		0.512	No
	Left Touch	0.678		0.265	0.943	No
	Left Tilt	0.363		0.265	0.628	No
	Right Touch	0.876		0.265	1.141	No
	Right Tilt	0.313		0.265	0.578	No
Body-worn	Rear	1.276	0.078		1.354	No
	Front	0.703	0.051		0.754	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.292	0.017		0.309	No
	Edge 3	0.423	<0.001 #		0.423	No
	Edge 4	0.375	0.042		0.417	No
	Rear	1.276		0.132	1.408	No
	Front	0.703		0.132	0.835	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.292		0.132	0.424	No
	Edge 3	0.423		0.132	0.555	No
	Edge 4	0.375		0.132	0.507	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 “

Sum of the SAR for WCDMA Band IV &2.4G Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		WCDMA Band IV	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.780	0.157		0.937	No
	Left Tilt	0.248	0.139		0.387	No
	Right Touch	0.536	0.265		0.801	No
	Right Tilt	0.323	0.199		0.522	No
	Left Touch	0.780		0.265	1.045	No
	Left Tilt	0.248		0.265	0.513	No
	Right Touch	0.536		0.265	0.801	No
	Right Tilt	0.323		0.265	0.588	No
Body-worn	Rear	1.286	0.078		1.364	No
	Front	1.066	0.051		1.117	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.774	0.017		0.791	No
	Edge 3	0.573	<0.001 #		0.573	No
	Edge 4	0.211	0.042		0.253	No
	Rear	1.286		0.132	1.418	No
	Front	1.066		0.132	1.198	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.774		0.132	0.906	No
	Edge 3	0.573		0.132	0.705	No
	Edge 4	0.211		0.132	0.343	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 “

Sum of the SAR for WCDMA Band V &2.4G 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	0.456	0.157		0.613	No
	Left Tilt	0.432	0.139		0.571	No
	Right Touch	0.545	0.265		0.810	No
	Right Tilt	0.379	0.199		0.578	No
	Left Touch	0.456		0.265	0.721	No
	Left Tilt	0.432		0.265	0.697	No
	Right Touch	0.545		0.265	0.810	No
	Right Tilt	0.379		0.265	0.644	No
Body-worn	Rear	0.683	0.078		0.761	No
	Front	0.614	0.051		0.665	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.465	0.017		0.482	No
	Edge 3	0.174	<0.001 #		0.174	No
	Edge 4	0.579	0.042		0.621	No
	Rear	0.683		0.132	0.815	No
	Front	0.614		0.132	0.746	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.465		0.132	0.597	No
	Edge 3	0.174		0.132	0.306	No
	Edge 4	0.579		0.132	0.711	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 “

Sum of the SAR for CDMA Band 0 &2.4G Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		CDMA Band 0	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.301	0.157		0.458	No
	Left Tilt	0.184	0.139		0.323	No
	Right Touch	0.264	0.265		0.529	No
	Right Tilt	0.226	0.199		0.425	No
	Left Touch	0.301		0.265	0.566	No
	Left Tilt	0.184		0.265	0.449	No
	Right Touch	0.264		0.265	0.529	No
	Right Tilt	0.226		0.265	0.491	No
Body-worn	Rear	0.523	0.078		0.601	No
	Front	0.291	0.051		0.342	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.256	0.017		0.273	No
	Edge 3	0.138	<0.001 #		0.138	No
	Edge 4	0.118	0.042		0.160	No
	Rear	0.523		0.132	0.655	No
	Front	0.291		0.132	0.423	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.256		0.132	0.388	No
	Edge 3	0.138		0.132	0.270	No
	Edge 4	0.118		0.132	0.250	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 “

Sum of the SAR for CDMA Band 1 &2.4G Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		CDMA Band 1	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.428	0.157		0.585	No
	Left Tilt	0.162	0.139		0.301	No
	Right Touch	0.302	0.265		0.567	No
	Right Tilt	0.237	0.199		0.436	No
	Left Touch	0.428		0.265	0.693	No
	Left Tilt	0.162		0.265	0.427	No
	Right Touch	0.302		0.265	0.567	No
	Right Tilt	0.237		0.265	0.502	No
Body-worn	Rear	0.505	0.078		0.583	No
	Front	0.422	0.051		0.473	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.155	0.017		0.172	No
	Edge 3	0.413	<0.001 #		0.413	No
	Edge 4	0.174	0.042		0.216	No
	Rear	0.505		0.132	0.637	No
	Front	0.422		0.132	0.554	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.155		0.132	0.287	No
	Edge 3	0.413		0.132	0.545	No
	Edge 4	0.174		0.132	0.306	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 “

Sum of the SAR for CDMA Band 10 &2.4G Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		CDMA Band 10	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.367	0.157		0.524	No
	Left Tilt	0.266	0.139		0.405	No
	Right Touch	0.290	0.265		0.555	No
	Right Tilt	0.258	0.199		0.457	No
	Left Touch	0.367		0.265	0.632	No
	Left Tilt	0.266		0.265	0.531	No
	Right Touch	0.290		0.265	0.555	No
	Right Tilt	0.258		0.265	0.523	No
Body-worn	Rear	0.332	0.078		0.410	No
	Front	0.281	0.051		0.332	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.190	0.017		0.207	No
	Edge 3	0.179	<0.001 #		0.179	No
	Edge 4	0.283	0.042		0.325	No
	Rear	0.332		0.132	0.464	No
	Front	0.281		0.132	0.413	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.190		0.132	0.322	No
	Edge 3	0.179		0.132	0.311	No
	Edge 4	0.283		0.132	0.415	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 “

Sum of the SAR for LTE Band 2 (1 RB#0) &2.4G 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	0.367	0.157		0.524	No
	Left Tilt	0.247	0.139		0.386	No
	Right Touch	0.606	0.265		0.871	No
	Right Tilt	0.199	0.199		0.398	No
	Left Touch	0.367		0.265	0.632	No
	Left Tilt	0.247		0.265	0.512	No
	Right Touch	0.606		0.265	0.871	No
	Right Tilt	0.199		0.265	0.464	No
Body-worn	Rear	0.953	0.078		1.031	No
	Front	0.756	0.051		0.807	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.212	0.017		0.229	No
	Edge 3	0.692	<0.001 #		0.692	No
	Edge 4	0.269	0.042		0.311	No
	Rear	0.953		0.132	1.085	No
	Front	0.756		0.132	0.888	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.212		0.132	0.344	No
	Edge 3	0.692		0.132	0.824	No
	Edge 4	0.269		0.132	0.401	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 “

Sum of the SAR for LTE Band 2 (50% RB#0) &2.4G 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	0.679	0.157		0.836	No
	Left Tilt	0.246	0.139		0.385	No
	Right Touch	0.497	0.265		0.762	No
	Right Tilt	0.253	0.199		0.452	No
	Left Touch	0.679		0.265	0.944	No
	Left Tilt	0.246		0.265	0.511	No
	Right Touch	0.497		0.265	0.762	No
	Right Tilt	0.253		0.265	0.518	No
Body-worn	Rear	1.092	0.078		1.170	No
	Front	0.950	0.051		1.001	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.255	0.017		0.272	No
	Edge 3	1.153	<0.001 #		1.153	No
	Edge 4	0.304	0.042		0.346	No
	Rear	1.092		0.132	1.224	No
	Front	0.950		0.132	1.082	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.255		0.132	0.387	No
	Edge 3	1.153		0.132	1.285	No
	Edge 4	0.304		0.132	0.436	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 “

Sum of the SAR for LTE Band 4(1 RB#0) &2.4G 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	0.404	0.157		0.561	No
	Left Tilt	0.249	0.139		0.388	No
	Right Touch	0.423	0.265		0.688	No
	Right Tilt	0.194	0.199		0.393	No
	Left Touch	0.404		0.265	0.669	No
	Left Tilt	0.249		0.265	0.514	No
	Right Touch	0.423		0.265	0.688	No
	Right Tilt	0.194		0.265	0.459	No
Body-worn	Rear	0.963	0.078		1.041	No
	Front	0.675	0.051		0.726	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.401	0.017		0.418	No
	Edge 3	0.343	<0.001 #		0.343	No
	Edge 4	0.148	0.042		0.190	No
	Rear	0.963		0.132	1.095	No
	Front	0.675		0.132	0.807	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.401		0.132	0.533	No
	Edge 3	0.343		0.132	0.475	No
	Edge 4	0.148		0.132	0.280	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 “

Sum of the SAR for LTE Band 4(50% RB#0) &2.4G 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	0.489	0.157		0.646	No
	Left Tilt	0.327	0.139		0.466	No
	Right Touch	0.209	0.265		0.474	No
	Right Tilt	0.347	0.199		0.546	No
	Left Touch	0.489		0.265	0.754	No
	Left Tilt	0.327		0.265	0.592	No
	Right Touch	0.209		0.265	0.474	No
	Right Tilt	0.347		0.265	0.612	No
Body-worn	Rear	0.791	0.078		0.869	No
	Front	0.588	0.051		0.639	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.728	0.017		0.745	No
	Edge 3	0.553	<0.001 #		0.553	No
	Edge 4	0.209	0.042		0.251	No
	Rear	0.791		0.132	0.923	No
	Front	0.588		0.132	0.720	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.728		0.132	0.860	No
	Edge 3	0.553		0.132	0.685	No
	Edge 4	0.209		0.132	0.341	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 “

Sum of the SAR for LTE Band 5(1 RB#0) &2.4G 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	0.300	0.157		0.457	No
	Left Tilt	0.252	0.139		0.391	No
	Right Touch	0.390	0.265		0.655	No
	Right Tilt	0.318	0.199		0.517	No
	Left Touch	0.300		0.265	0.565	No
	Left Tilt	0.252		0.265	0.517	No
	Right Touch	0.390		0.265	0.655	No
	Right Tilt	0.318		0.265	0.583	No
Body-worn	Rear	0.476	0.078		0.554	No
	Front	0.437	0.051		0.488	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.380	0.017		0.397	No
	Edge 3	0.081	<0.001 #		0.081	No
	Edge 4	0.429	0.042		0.471	No
	Rear	0.476		0.132	0.608	No
	Front	0.437		0.132	0.569	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.380		0.132	0.512	No
	Edge 3	0.081		0.132	0.213	No
	Edge 4	0.429		0.132	0.561	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 “

Sum of the SAR for LTE Band 5(50% RB#0) &2.4G 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	0.477	0.157		0.634	No
	Left Tilt	0.411	0.139		0.550	No
	Right Touch	0.522	0.265		0.787	No
	Right Tilt	0.422	0.199		0.621	No
	Left Touch	0.477		0.265	0.742	No
	Left Tilt	0.411		0.265	0.676	No
	Right Touch	0.522		0.265	0.787	No
	Right Tilt	0.422		0.265	0.687	No
Body-worn	Rear	0.656	0.078		0.734	No
	Front	0.630	0.051		0.681	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.551	0.017		0.568	No
	Edge 3	0.104	<0.001 #		0.104	No
	Edge 4	0.622	0.042		0.664	No
	Rear	0.656		0.132	0.788	No
	Front	0.630		0.132	0.762	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.551		0.132	0.683	No
	Edge 3	0.104		0.132	0.236	No
	Edge 4	0.622		0.132	0.754	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 “

Sum of the SAR for LTE Band 12(1 RB#0) &2.4G 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	0.313	0.157		0.470	No
	Left Tilt	0.281	0.139		0.420	No
	Right Touch	0.323	0.265		0.588	No
	Right Tilt	0.297	0.199		0.496	No
	Left Touch	0.313		0.265	0.578	No
	Left Tilt	0.281		0.265	0.546	No
	Right Touch	0.323		0.265	0.588	No
	Right Tilt	0.297		0.265	0.562	No
Body-worn	Rear	0.500	0.078		0.578	No
	Front	0.409	0.051		0.460	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.288	0.017		0.305	No
	Edge 3	0.049	<0.001 #		0.049	No
	Edge 4	0.321	0.042		0.363	No
	Rear	0.500		0.132	0.632	No
	Front	0.409		0.132	0.541	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.288		0.132	0.420	No
	Edge 3	0.049		0.132	0.181	No
	Edge 4	0.321		0.132	0.453	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 “

Sum of the SAR for LTE Band 12(50% RB#0) &2.4G 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	0.494	0.157		0.651	No
	Left Tilt	0.413	0.139		0.552	No
	Right Touch	0.524	0.265		0.789	No
	Right Tilt	0.436	0.199		0.635	No
	Left Touch	0.494		0.265	0.759	No
	Left Tilt	0.413		0.265	0.678	No
	Right Touch	0.524		0.265	0.789	No
	Right Tilt	0.436		0.265	0.701	No
Body-worn	Rear	0.733	0.078		0.811	No
	Front	0.654	0.051		0.705	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.442	0.017		0.459	No
	Edge 3	0.089	<0.001 #		0.089	No
	Edge 4	0.490	0.042		0.532	No
	Rear	0.733		0.132	0.865	No
	Front	0.654		0.132	0.786	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.442		0.132	0.574	No
	Edge 3	0.089		0.132	0.221	No
	Edge 4	0.490		0.132	0.622	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 “

Sum of the SAR for LTE Band 13 (1 RB#0)&2.4G 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	0.583	0.157		0.740	No
	Left Tilt	0.467	0.139		0.606	No
	Right Touch	0.506	0.265		0.771	No
	Right Tilt	0.450	0.199		0.649	No
	Left Touch	0.583		0.265	0.848	No
	Left Tilt	0.467		0.265	0.732	No
	Right Touch	0.506		0.265	0.771	No
	Right Tilt	0.450		0.265	0.715	No
Body-worn	Rear	0.658	0.078		0.736	No
	Front	0.642	0.051		0.693	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.408	0.017		0.425	No
	Edge 3	0.104	<0.001 #		0.104	No
	Edge 4	0.529	0.042		0.571	No
	Rear	0.658		0.132	0.790	No
	Front	0.642		0.132	0.774	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.408		0.132	0.540	No
	Edge 3	0.104		0.132	0.236	No
	Edge 4	0.529		0.132	0.661	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 “

Sum of the SAR for LTE Band 13 (50% RB#0)&2.4G 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	0.489	0.157		0.646	No
	Left Tilt	0.434	0.139		0.573	No
	Right Touch	0.426	0.265		0.691	No
	Right Tilt	0.363	0.199		0.562	No
	Left Touch	0.489		0.265	0.754	No
	Left Tilt	0.434		0.265	0.699	No
	Right Touch	0.426		0.265	0.691	No
	Right Tilt	0.363		0.265	0.628	No
Body-worn	Rear	0.593	0.078		0.671	No
	Front	0.562	0.051		0.613	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.466	0.017		0.483	No
	Edge 3	0.117	<0.001 #		0.117	No
	Edge 4	0.605	0.042		0.647	No
	Rear	0.593		0.132	0.725	No
	Front	0.562		0.132	0.694	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.466		0.132	0.598	No
	Edge 3	0.117		0.132	0.249	No
	Edge 4	0.605		0.132	0.737	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 “

Sum of the SAR for LTE Band 17(1 RB#0) &2.4G 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	0.371	0.157		0.528	No
	Left Tilt	0.306	0.139		0.445	No
	Right Touch	0.380	0.265		0.645	No
	Right Tilt	0.289	0.199		0.488	No
	Left Touch	0.371		0.265	0.636	No
	Left Tilt	0.306		0.265	0.571	No
	Right Touch	0.380		0.265	0.645	No
	Right Tilt	0.289		0.265	0.554	No
Body-worn	Rear	0.547	0.078		0.625	No
	Front	0.512	0.051		0.563	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.403	0.017		0.420	No
	Edge 3	0.050	<0.001 #		0.050	No
	Edge 4	0.440	0.042		0.482	No
	Rear	0.547		0.132	0.679	No
	Front	0.512		0.132	0.644	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.403		0.132	0.535	No
	Edge 3	0.050		0.132	0.182	No
	Edge 4	0.440		0.132	0.572	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 “

Sum of the SAR for LTE Band 17(50%RB#0) &2.4G 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	0.670	0.157		0.827	No
	Left Tilt	0.543	0.139		0.682	No
	Right Touch	0.700	0.265		0.965	No
	Right Tilt	0.566	0.199		0.765	No
	Left Touch	0.670		0.265	0.935	No
	Left Tilt	0.543		0.265	0.808	No
	Right Touch	0.700		0.265	0.965	No
	Right Tilt	0.566		0.265	0.831	No
Body-worn	Rear	0.797	0.078		0.875	No
	Front	0.782	0.051		0.833	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.469	0.017		0.486	No
	Edge 3	0.077	<0.001 #		0.077	No
	Edge 4	0.506	0.042		0.548	No
	Rear	0.797		0.132	0.929	No
	Front	0.782		0.132	0.914	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.469		0.132	0.601	No
	Edge 3	0.077		0.132	0.209	No
	Edge 4	0.506		0.132	0.638	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 “

Sum of the SAR for LTE Band 25(1 RB#0) &2.4G Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 25	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.402	0.157		0.559	No
	Left Tilt	0.241	0.139		0.380	No
	Right Touch	0.639	0.265		0.904	No
	Right Tilt	0.213	0.199		0.412	No
	Left Touch	0.402		0.265	0.667	No
	Left Tilt	0.241		0.265	0.506	No
	Right Touch	0.639		0.265	0.904	No
	Right Tilt	0.213		0.265	0.478	No
Body-worn	Rear	1.029	0.078		1.107	No
	Front	0.670	0.051		0.721	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.221	0.017		0.238	No
	Edge 3	0.696	<0.001 #		0.696	No
	Edge 4	0.301	0.042		0.343	No
	Rear	1.029		0.132	1.161	No
	Front	0.670		0.132	0.802	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.221		0.132	0.353	No
	Edge 3	0.696		0.132	0.828	No
	Edge 4	0.301		0.132	0.433	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 “

Sum of the SAR for LTE Band 25(50% RB#0) &2.4G Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 25	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.737	0.157		0.894	No
	Left Tilt	0.235	0.139		0.374	No
	Right Touch	0.541	0.265		0.806	No
	Right Tilt	0.304	0.199		0.503	No
	Left Touch	0.737		0.265	1.002	No
	Left Tilt	0.235		0.265	0.500	No
	Right Touch	0.541		0.265	0.806	No
	Right Tilt	0.304		0.265	0.569	No
Body-worn	Rear	1.275	0.078		1.353	No
	Front	1.022	0.051		1.073	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.343	0.017		0.360	No
	Edge 3	0.834	<0.001 #		0.834	No
	Edge 4	0.383	0.042		0.425	No
	Rear	1.275		0.132	1.407	No
	Front	1.022		0.132	1.154	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.343		0.132	0.475	No
	Edge 3	0.834		0.132	0.966	No
	Edge 4	0.383		0.132	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 “

Sum of the SAR for LTE Band 26(1 RB#0) &2.4G Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 26	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.909	0.157		1.066	No
	Left Tilt	0.603	0.139		0.742	No
	Right Touch	0.720	0.265		0.985	No
	Right Tilt	0.574	0.199		0.773	No
	Left Touch	0.909		0.265	1.174	No
	Left Tilt	0.603		0.265	0.868	No
	Right Touch	0.720		0.265	0.985	No
	Right Tilt	0.574		0.265	0.839	No
Body-worn	Rear	0.863	0.078		0.941	No
	Front	0.777	0.051		0.828	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.607	0.017		0.624	No
	Edge 3	0.223	<0.001 #		0.223	No
	Edge 4	0.709	0.042		0.751	No
	Rear	0.863		0.132	0.995	No
	Front	0.777		0.132	0.909	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.607		0.132	0.739	No
	Edge 3	0.223		0.132	0.355	No
	Edge 4	0.709		0.132	0.841	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 “

Sum of the SAR for LTE Band 26(38% RB#0) &2.4G Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 26	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.566	0.157		0.723	No
	Left Tilt	0.395	0.139		0.534	No
	Right Touch	0.524	0.265		0.789	No
	Right Tilt	0.458	0.199		0.657	No
	Left Touch	0.566		0.265	0.831	No
	Left Tilt	0.395		0.265	0.660	No
	Right Touch	0.524		0.265	0.789	No
	Right Tilt	0.458		0.265	0.723	No
Body-worn	Rear	0.505	0.078		0.583	No
	Front	0.657	0.051		0.708	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.598	0.017		0.615	No
	Edge 3	0.190	<0.001 #		0.190	No
	Edge 4	0.668	0.042		0.710	No
	Rear	0.505		0.132	0.637	No
	Front	0.657		0.132	0.789	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.598		0.132	0.730	No
	Edge 3	0.190		0.132	0.322	No
	Edge 4	0.668		0.132	0.800	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 “

Sum of the SAR for LTE Band 41(1 RB#0) &2.4G 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	0.587	0.157		0.744	No
	Left Tilt	0.192	0.139		0.331	No
	Right Touch	0.796	0.265		1.061	No
	Right Tilt	0.131	0.199		0.330	No
	Left Touch	0.587		0.265	0.852	No
	Left Tilt	0.192		0.265	0.457	No
	Right Touch	0.796		0.265	1.061	No
	Right Tilt	0.131		0.265	0.396	No
Body-worn	Rear	0.779	0.078		0.857	No
	Front	0.694	0.051		0.745	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.619	0.017		0.636	No
	Edge 3	0.466	<0.001 #		0.466	No
	Edge 4	0.069	0.042		0.111	No
	Rear	0.779		0.132	0.911	No
	Front	0.694		0.132	0.826	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.619		0.132	0.751	No
	Edge 3	0.466		0.132	0.598	No
	Edge 4	0.069		0.132	0.201	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 “

Sum of the SAR for LTE Band 41(50% RB#0) &2.4G 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	0.339	0.157		0.496	No
	Left Tilt	0.122	0.139		0.261	No
	Right Touch	0.536	0.265		0.801	No
	Right Tilt	0.123	0.199		0.322	No
	Left Touch	0.339		0.265	0.604	No
	Left Tilt	0.122		0.265	0.387	No
	Right Touch	0.536		0.265	0.801	No
	Right Tilt	0.123		0.265	0.388	No
Body-worn	Rear	0.774	0.078		0.852	No
	Front	0.434	0.051		0.485	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.651	0.017		0.668	No
	Edge 3	0.308	<0.001 #		0.308	No
	Edge 4	0.056	0.042		0.098	No
	Rear	0.774		0.132	0.906	No
	Front	0.434		0.132	0.566	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.651		0.132	0.783	No
	Edge 3	0.308		0.132	0.440	No
	Edge 4	0.056		0.132	0.188	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 “

Sum of the SAR for LTE Band 66(1 RB#0) &2.4G 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	0.818	0.157		0.975	No
	Left Tilt	0.166	0.139		0.305	No
	Right Touch	0.510	0.265		0.775	No
	Right Tilt	0.250	0.199		0.449	No
	Left Touch	0.818		0.265	1.083	No
	Left Tilt	0.166		0.265	0.431	No
	Right Touch	0.510		0.265	0.775	No
	Right Tilt	0.250		0.265	0.515	No
Body-worn	Rear	1.413	0.078		1.491	No
	Front	0.776	0.051		0.827	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.298	0.017		0.315	No
	Edge 3	0.901	<0.001 #		0.901	No
	Edge 4	0.139	0.042		0.181	No
	Rear	1.413		0.132	**1.545**	No
	Front	0.776		0.132	0.908	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.298		0.132	0.430	No
	Edge 3	0.901		0.132	1.033	No
	Edge 4	0.139		0.132	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 “

Sum of the SAR for LTE Band 66(50% RB#0) &2.4G 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	0.568	0.157		0.725	No
	Left Tilt	0.214	0.139		0.353	No
	Right Touch	0.242	0.265		0.507	No
	Right Tilt	0.192	0.199		0.391	No
	Left Touch	0.568		0.265	0.833	No
	Left Tilt	0.214		0.265	0.479	No
	Right Touch	0.242		0.265	0.507	No
	Right Tilt	0.192		0.265	0.457	No
Body-worn	Rear	0.945	0.078		1.023	No
	Front	0.717	0.051		0.768	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.443	0.017		0.460	No
	Edge 3	1.178	<0.001 #		1.178	No
	Edge 4	0.172	0.042		0.214	No
	Rear	0.945		0.132	1.077	No
	Front	0.717		0.132	0.849	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.443		0.132	0.575	No
	Edge 3	1.178		0.132	1.310	No
	Edge 4	0.172		0.132	0.304	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 “

Sum of the SAR for LTE Band 71(1 RB#0) &2.4G 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	0.485	0.157		0.642	No
	Left Tilt	0.235	0.139		0.374	No
	Right Touch	0.529	0.265		0.794	No
	Right Tilt	0.202	0.199		0.401	No
	Left Touch	0.485		0.265	0.750	No
	Left Tilt	0.235		0.265	0.500	No
	Right Touch	0.529		0.265	0.794	No
	Right Tilt	0.202		0.265	0.467	No
Body-worn	Rear	0.795	0.078		0.873	No
	Front	0.663	0.051		0.714	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.519	0.017		0.536	No
	Edge 3	0.065	<0.001 #		0.065	No
	Edge 4	0.702	0.042		0.744	No
	Rear	0.795		0.132	0.927	No
	Front	0.663		0.132	0.795	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.519		0.132	0.651	No
	Edge 3	0.065		0.132	0.197	No
	Edge 4	0.702		0.132	0.834	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 “

Sum of the SAR for LTE Band 71(50% RB#0) &2.4G 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	0.481	0.157		0.638	No
	Left Tilt	0.316	0.139		0.455	No
	Right Touch	0.365	0.265		0.630	No
	Right Tilt	0.283	0.199		0.482	No
	Left Touch	0.481		0.265	0.746	No
	Left Tilt	0.316		0.265	0.581	No
	Right Touch	0.365		0.265	0.630	No
	Right Tilt	0.283		0.265	0.548	No
Body-worn	Rear	0.748	0.078		0.826	No
	Front	0.601	0.051		0.652	No
	Edge 1	<0.001 #	0.076		0.076	No
	Edge 2	0.481	0.017		0.498	No
	Edge 3	0.066	<0.001 #		0.066	No
	Edge 4	0.569	0.042		0.611	No
	Rear	0.748		0.132	0.880	No
	Front	0.601		0.132	0.733	No
	Edge 1	<0.001 #		0.132	0.132	No
	Edge 2	0.481		0.132	0.613	No
	Edge 3	0.066		0.132	0.198	No
	Edge 4	0.569		0.132	0.701	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 “

Sum of the SAR for GSM 850 &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		GSM 850	WI-Fi NII Band		
Head (voice)	Left Touch	0.433	0.060	0.493	No
	Left Tilt	0.392	0.078	0.470	No
	Right Touch	0.480	0.080	0.560	No
	Right Tilt	0.318	0.087	0.405	No
Body-worn (voice)	Rear	0.578	0.052	0.630	No
	Front	0.548	0.036	0.584	No
Body-worn (Data)	Rear	1.148	0.052	1.200	No
	Front	1.033	0.036	1.069	No
Body-worn (Hotspot)	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.707	0.029	0.736	No
	Edge 3	0.250	<0.001 #	0.250	No
	Edge 4	0.790	0.029	0.819	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 “

Sum of the SAR for GSM 1900 &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		PCS 1900	WI-Fi NII Band		
Head (voice)	Left Touch	0.330	0.060	0.390	No
	Left Tilt	0.191	0.078	0.269	No
	Right Touch	0.536	0.080	0.616	No
	Right Tilt	0.181	0.087	0.268	No
Body-worn (voice)	Rear	0.515	0.052	0.567	No
	Front	0.453	0.036	0.489	No
Body-worn (Data)	Rear	1.223	0.052	1.275	No
	Front	0.772	0.036	0.808	No
Body-worn (Hotspot)	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.377	0.029	0.406	No
	Edge 3	0.860	<0.001 #	0.860	No
	Edge 4	0.371	0.029	0.400	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 “

Sum of the SAR for WCDMA Band II &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		WCDMA Band II	Wi-Fi NII Band		
Head	Left Touch	0.678	0.060	0.738	No
	Left Tilt	0.363	0.078	0.441	No
	Right Touch	0.876	0.080	0.956	No
	Right Tilt	0.313	0.087	0.400	No
Body-worn	Rear	1.276	0.052	1.328	No
	Front	0.703	0.036	0.739	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.292	0.029	0.321	No
	Edge 3	0.423	<0.001 #	0.423	No
	Edge 4	0.375	0.029	0.404	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 “

Sum of the SAR for WCDMA Band IV &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		WCDMA Band IV	Wi-Fi NII Band		
Head	Left Touch	0.780	0.060	0.840	No
	Left Tilt	0.248	0.078	0.326	No
	Right Touch	0.536	0.080	0.616	No
	Right Tilt	0.323	0.087	0.410	No
Body-worn	Rear	1.286	0.052	1.338	No
	Front	1.066	0.036	1.102	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.774	0.029	0.803	No
	Edge 3	0.573	<0.001 #	0.573	No
	Edge 4	0.211	0.029	0.240	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 “

Sum of the SAR for WCDMA Band V &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		WCDMA Band V	Wi-Fi NII Band		
Head	Left Touch	0.456	0.060	0.516	No
	Left Tilt	0.432	0.078	0.510	No
	Right Touch	0.545	0.080	0.625	No
	Right Tilt	0.379	0.087	0.466	No
Body-worn	Rear	0.683	0.052	0.735	No
	Front	0.614	0.036	0.650	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.465	0.029	0.494	No
	Edge 3	0.174	<0.001 #	0.174	No
	Edge 4	0.579	0.029	0.608	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 “

Sum of the SAR for CDMA Band 0 &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		CDMA Band 0	Wi-Fi NII Band		
Head	Left Touch	0.301	0.060	0.361	No
	Left Tilt	0.184	0.078	0.262	No
	Right Touch	0.264	0.080	0.344	No
	Right Tilt	0.226	0.087	0.313	No
Body-worn	Rear	0.523	0.052	0.575	No
	Front	0.291	0.036	0.327	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.256	0.029	0.285	No
	Edge 3	0.138	<0.001 #	0.138	No
	Edge 4	0.118	0.029	0.147	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 “

Sum of the SAR for CDMA Band 1 &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		CDMA Band 1	Wi-Fi NII Band		
Head	Left Touch	0.428	0.060	0.488	No
	Left Tilt	0.162	0.078	0.240	No
	Right Touch	0.302	0.080	0.382	No
	Right Tilt	0.237	0.087	0.324	No
Body-worn	Rear	0.505	0.052	0.557	No
	Front	0.422	0.036	0.458	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.155	0.029	0.184	No
	Edge 3	0.413	<0.001 #	0.413	No
	Edge 4	0.174	0.029	0.203	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 “

Sum of the SAR for CDMA Band 10 &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		CDMA Band 10	Wi-Fi NII Band		
Head	Left Touch	0.367	0.060	0.427	No
	Left Tilt	0.266	0.078	0.344	No
	Right Touch	0.290	0.080	0.370	No
	Right Tilt	0.258	0.087	0.345	No
Body-worn	Rear	0.332	0.052	0.384	No
	Front	0.281	0.036	0.317	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.190	0.029	0.219	No
	Edge 3	0.179	<0.001 #	0.179	No
	Edge 4	0.283	0.029	0.312	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 “

Sum of the SAR for LTE Band 2 (1 RB#0)&5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 2	Wi-Fi NII Band		
Head	Left Touch	0.367	0.060	0.427	No
	Left Tilt	0.247	0.078	0.325	No
	Right Touch	0.606	0.080	0.686	No
	Right Tilt	0.199	0.087	0.286	No
Body-worn	Rear	0.953	0.052	1.005	No
	Front	0.756	0.036	0.792	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.212	0.029	0.241	No
	Edge 3	0.692	<0.001 #	0.692	No
	Edge 4	0.269	0.029	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 “

Sum of the SAR for LTE Band 2 (50% RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 2	Wi-Fi NII Band		
Head	Left Touch	0.679	0.060	0.739	No
	Left Tilt	0.246	0.078	0.324	No
	Right Touch	0.497	0.080	0.577	No
	Right Tilt	0.253	0.087	0.340	No
Body-worn	Rear	1.092	0.052	1.144	No
	Front	0.950	0.036	0.986	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.255	0.029	0.284	No
	Edge 3	1.153	<0.001 #	1.153	No
	Edge 4	0.304	0.029	0.333	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 “

Sum of the SAR for LTE Band 4(1 RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 4	Wi-Fi NII Band		
Head	Left Touch	0.404	0.060	0.464	No
	Left Tilt	0.249	0.078	0.327	No
	Right Touch	0.423	0.080	0.503	No
	Right Tilt	0.194	0.087	0.281	No
Body-worn	Rear	0.963	0.052	1.015	No
	Front	0.675	0.036	0.711	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.401	0.029	0.430	No
	Edge 3	0.343	<0.001 #	0.343	No
	Edge 4	0.148	0.029	0.177	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 “

Sum of the SAR for LTE Band 4(50% RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 4	Wi-Fi NII Band		
Head	Left Touch	0.489	0.060	0.549	No
	Left Tilt	0.327	0.078	0.405	No
	Right Touch	0.209	0.080	0.289	No
	Right Tilt	0.347	0.087	0.434	No
Body-worn	Rear	0.791	0.052	0.843	No
	Front	0.588	0.036	0.624	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.728	0.029	0.757	No
	Edge 3	0.553	<0.001 #	0.553	No
	Edge 4	0.209	0.029	0.238	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 “

Sum of the SAR for LTE Band 5(1 RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 5	Wi-Fi NII Band		
Head	Left Touch	0.300	0.060	0.360	No
	Left Tilt	0.252	0.078	0.330	No
	Right Touch	0.390	0.080	0.470	No
	Right Tilt	0.318	0.087	0.405	No
Body-worn	Rear	0.476	0.052	0.528	No
	Front	0.437	0.036	0.473	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.380	0.029	0.409	No
	Edge 3	0.081	<0.001 #	0.081	No
	Edge 4	0.429	0.029	0.458	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 “

Sum of the SAR for LTE Band 5(50% RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 5	Wi-Fi NII Band		
Head	Left Touch	0.477	0.060	0.537	No
	Left Tilt	0.411	0.078	0.489	No
	Right Touch	0.522	0.080	0.602	No
	Right Tilt	0.422	0.087	0.509	No
Body-worn	Rear	0.656	0.052	0.708	No
	Front	0.630	0.036	0.666	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.551	0.029	0.580	No
	Edge 3	0.104	<0.001 #	0.104	No
	Edge 4	0.622	0.029	0.651	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 “

Sum of the SAR for LTE Band 12(1 RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 12	Wi-Fi NII Band		
Head	Left Touch	0.313	0.060	0.373	No
	Left Tilt	0.281	0.078	0.359	No
	Right Touch	0.323	0.080	0.403	No
	Right Tilt	0.297	0.087	0.384	No
Body-worn	Rear	0.500	0.052	0.552	No
	Front	0.409	0.036	0.445	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.288	0.029	0.317	No
	Edge 3	0.049	<0.001 #	0.049	No
	Edge 4	0.321	0.029	0.350	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 “

Sum of the SAR for LTE Band 12(50% RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 12	Wi-Fi NII Band		
Head	Left Touch	0.494	0.060	0.554	No
	Left Tilt	0.413	0.078	0.491	No
	Right Touch	0.524	0.080	0.604	No
	Right Tilt	0.436	0.087	0.523	No
Body-worn	Rear	0.733	0.052	0.785	No
	Front	0.654	0.036	0.690	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.442	0.029	0.471	No
	Edge 3	0.089	<0.001 #	0.089	No
	Edge 4	0.490	0.029	0.519	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 “

Sum of the SAR for LTE Band 13(1 RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 13	Wi-Fi NII Band		
Head	Left Touch	0.583	0.060	0.643	No
	Left Tilt	0.467	0.078	0.545	No
	Right Touch	0.506	0.080	0.586	No
	Right Tilt	0.450	0.087	0.537	No
Body-worn	Rear	0.658	0.052	0.710	No
	Front	0.642	0.036	0.678	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.408	0.029	0.437	No
	Edge 3	0.104	<0.001 #	0.104	No
	Edge 4	0.529	0.029	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 “

Sum of the SAR for LTE Band 13(50% RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 13	Wi-Fi NII Band		
Head	Left Touch	0.489	0.060	0.549	No
	Left Tilt	0.434	0.078	0.512	No
	Right Touch	0.426	0.080	0.506	No
	Right Tilt	0.363	0.087	0.450	No
Body-worn	Rear	0.593	0.052	0.645	No
	Front	0.562	0.036	0.598	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.466	0.029	0.495	No
	Edge 3	0.117	<0.001 #	0.117	No
	Edge 4	0.605	0.029	0.634	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 “

Sum of the SAR for LTE Band 17(1 RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 17	Wi-Fi NII Band		
Head	Left Touch	0.371	0.060	0.431	No
	Left Tilt	0.306	0.078	0.384	No
	Right Touch	0.380	0.080	0.460	No
	Right Tilt	0.289	0.087	0.376	No
Body-worn	Rear	0.547	0.052	0.599	No
	Front	0.512	0.036	0.548	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.403	0.029	0.432	No
	Edge 3	0.050	<0.001 #	0.050	No
	Edge 4	0.440	0.029	0.469	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 “

Sum of the SAR for LTE Band 17(50% RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 17	Wi-Fi NII Band		
Head	Left Touch	0.670	0.060	0.730	No
	Left Tilt	0.543	0.078	0.621	No
	Right Touch	0.700	0.080	0.780	No
	Right Tilt	0.566	0.087	0.653	No
Body-worn	Rear	0.797	0.052	0.849	No
	Front	0.782	0.036	0.818	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.469	0.029	0.498	No
	Edge 3	0.077	<0.001 #	0.077	No
	Edge 4	0.506	0.029	0.535	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 “

Sum of the SAR for LTE Band 25(1 RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 25	Wi-Fi NII Band		
Head	Left Touch	0.402	0.060	0.462	No
	Left Tilt	0.241	0.078	0.319	No
	Right Touch	0.639	0.080	0.719	No
	Right Tilt	0.213	0.087	0.300	No
Body-worn	Rear	1.029	0.052	1.081	No
	Front	0.670	0.036	0.706	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.221	0.029	0.250	No
	Edge 3	0.696	<0.001 #	0.696	No
	Edge 4	0.301	0.029	0.330	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 “

Sum of the SAR for LTE Band 25(50% RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 25	Wi-Fi NII Band		
Head	Left Touch	0.737	0.060	0.797	No
	Left Tilt	0.235	0.078	0.313	No
	Right Touch	0.541	0.080	0.621	No
	Right Tilt	0.304	0.087	0.391	No
Body-worn	Rear	1.275	0.052	1.327	No
	Front	1.022	0.036	1.058	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.343	0.029	0.372	No
	Edge 3	0.834	<0.001 #	0.834	No
	Edge 4	0.383	0.029	0.412	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 “

Sum of the SAR for LTE Band 26(1 RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 26	Wi-Fi NII Band		
Head	Left Touch	0.909	0.060	0.969	No
	Left Tilt	0.603	0.078	0.681	No
	Right Touch	0.720	0.080	0.800	No
	Right Tilt	0.574	0.087	0.661	No
Body-worn	Rear	0.863	0.052	0.915	No
	Front	0.777	0.036	0.813	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.607	0.029	0.636	No
	Edge 3	0.223	<0.001 #	0.223	No
	Edge 4	0.709	0.029	0.738	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 “

Sum of the SAR for LTE Band 26(38% RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 26	Wi-Fi NII Band		
Head	Left Touch	0.566	0.060	0.626	No
	Left Tilt	0.395	0.078	0.473	No
	Right Touch	0.524	0.080	0.604	No
	Right Tilt	0.458	0.087	0.545	No
Body-worn	Rear	0.505	0.052	0.557	No
	Front	0.657	0.036	0.693	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.598	0.029	0.627	No
	Edge 3	0.190	<0.001 #	0.190	No
	Edge 4	0.668	0.029	0.697	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 “

Sum of the SAR for LTE Band 41(1 RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 41	Wi-Fi NII Band		
Head	Left Touch	0.587	0.060	0.647	No
	Left Tilt	0.192	0.078	0.270	No
	Right Touch	0.796	0.080	0.876	No
	Right Tilt	0.131	0.087	0.218	No
Body-worn	Rear	0.779	0.052	0.831	No
	Front	0.694	0.036	0.730	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.619	0.029	0.648	No
	Edge 3	0.466	<0.001 #	0.466	No
	Edge 4	0.069	0.029	0.098	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 “

Sum of the SAR for LTE Band 41(50% RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 41	Wi-Fi NII Band		
Head	Left Touch	0.339	0.060	0.399	No
	Left Tilt	0.122	0.078	0.200	No
	Right Touch	0.536	0.080	0.616	No
	Right Tilt	0.123	0.087	0.210	No
Body-worn	Rear	0.774	0.052	0.826	No
	Front	0.434	0.036	0.470	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.651	0.029	0.680	No
	Edge 3	0.308	<0.001 #	0.308	No
	Edge 4	0.056	0.029	0.085	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 “

Sum of the SAR for LTE Band 66(1 RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 66	Wi-Fi NII Band		
Head	Left Touch	0.818	0.060	0.878	No
	Left Tilt	0.166	0.078	0.244	No
	Right Touch	0.510	0.080	0.590	No
	Right Tilt	0.250	0.087	0.337	No
Body-worn	Rear	1.413	0.052	1.465	No
	Front	0.776	0.036	0.812	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.298	0.029	0.327	No
	Edge 3	0.901	<0.001 #	0.901	No
	Edge 4	0.139	0.029	0.168	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 “

Sum of the SAR for LTE Band 66(50% RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 66	Wi-Fi NII Band		
Head	Left Touch	0.568	0.060	0.628	No
	Left Tilt	0.214	0.078	0.292	No
	Right Touch	0.242	0.080	0.322	No
	Right Tilt	0.192	0.087	0.279	No
Body-worn	Rear	0.945	0.052	0.997	No
	Front	0.717	0.036	0.753	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.443	0.029	0.472	No
	Edge 3	1.178	<0.001 #	1.178	No
	Edge 4	0.172	0.029	0.201	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 “

Sum of the SAR for LTE Band 71(1 RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 71	Wi-Fi NII Band		
Head	Left Touch	0.485	0.060	0.545	No
	Left Tilt	0.235	0.078	0.313	No
	Right Touch	0.529	0.080	0.609	No
	Right Tilt	0.202	0.087	0.289	No
Body-worn	Rear	0.795	0.052	0.847	No
	Front	0.663	0.036	0.699	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.519	0.029	0.548	No
	Edge 3	0.065	<0.001 #	0.065	No
	Edge 4	0.702	0.029	0.731	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 “

Sum of the SAR for LTE Band 71(50% RB#0) &5.2G Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 71	Wi-Fi NII Band		
Head	Left Touch	0.481	0.060	0.541	No
	Left Tilt	0.316	0.078	0.394	No
	Right Touch	0.365	0.080	0.445	No
	Right Tilt	0.283	0.087	0.370	No
Body-worn	Rear	0.748	0.052	0.800	No
	Front	0.601	0.036	0.637	No
	Edge 1	<0.001 #	0.069	0.069	No
	Edge 2	0.481	0.029	0.510	No
	Edge 3	0.066	<0.001 #	0.066	No
	Edge 4	0.569	0.029	0.598	No

Note:

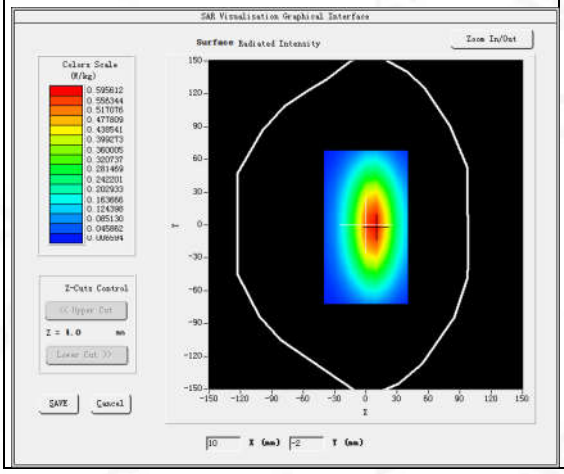
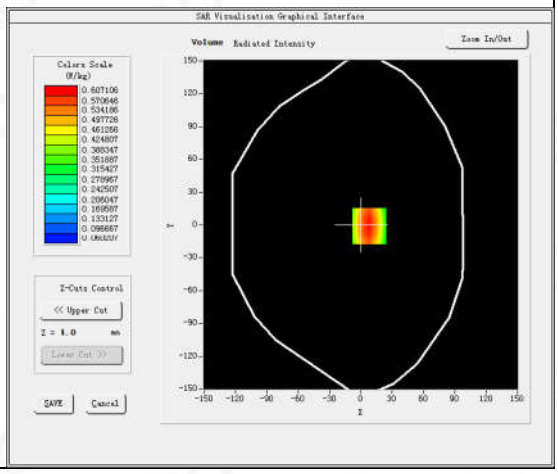
·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab **Date: Mar. 16,2020**
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=5.05
Frequency: 835 MHz; Medium parameters used: f = 850 MHz; σ=0.93 mho/m; εr =40.61; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.4, Liquid temperature (℃): 21.1

SATIMO Configuration:
- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

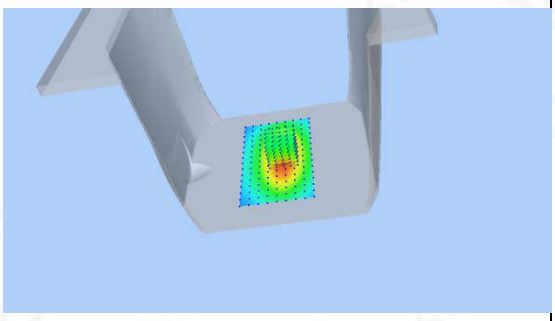
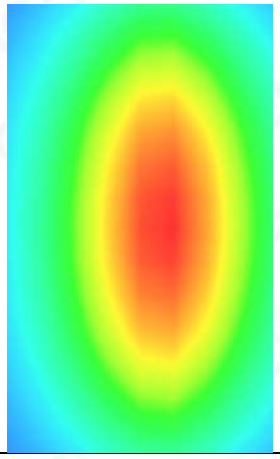
Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

SURFACE SAR	VOLUME SAR
	

Maximum location: X=8.00, Y=-1.00
SAR Peak: 0.84 W/kg

SAR 10g (W/Kg)	0.371347
SAR 1g (W/Kg)	0.583694

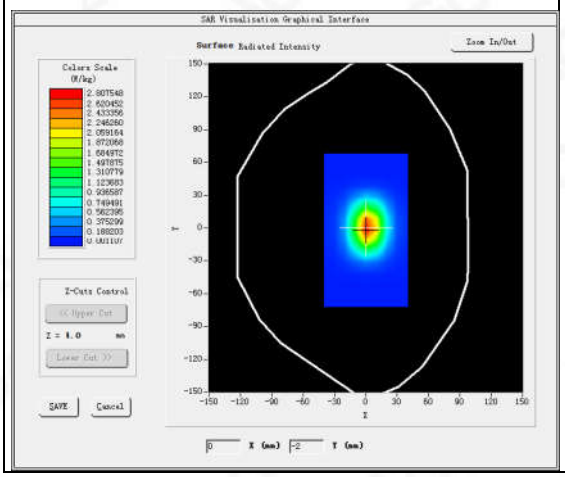
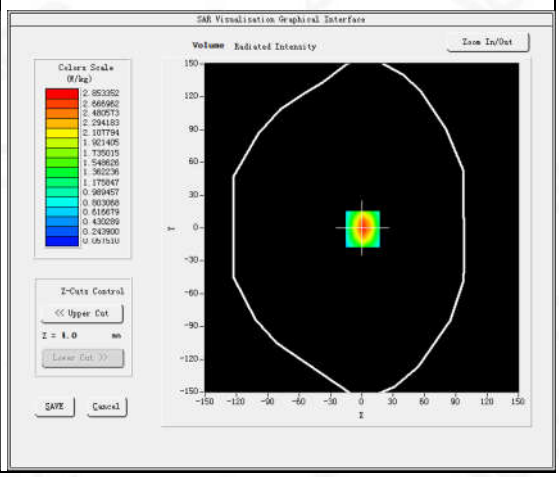
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8317	0.6052	0.4137	0.2808	0.2084	0.1463	0.1014

3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Mar. 17,2020**
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=4.48
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ=1.36 mho/m; εr =39.51; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):20.9, Liquid temperature (℃): 20.6

SATIMO Configuration:
Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

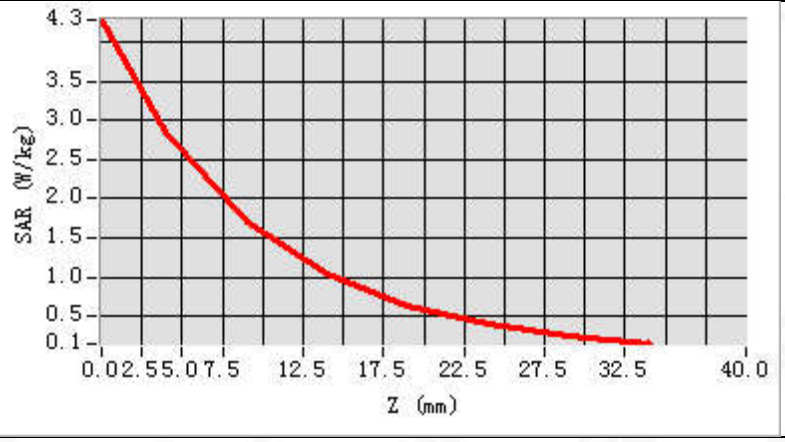
Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

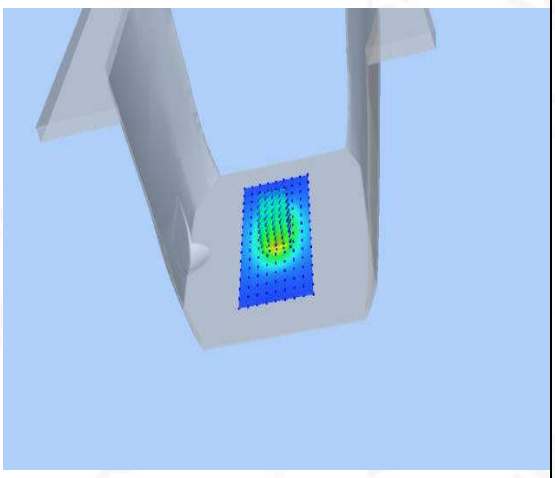
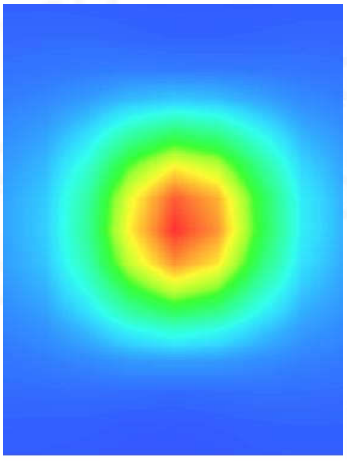
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=-1.00
SAR Peak: 4.29 W/kg

SAR 10g (W/Kg)	1.401567
SAR 1g (W/Kg)	2.673481

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.2815	2.8562	1.6973	1.0448	0.6319	0.3935	0.2462

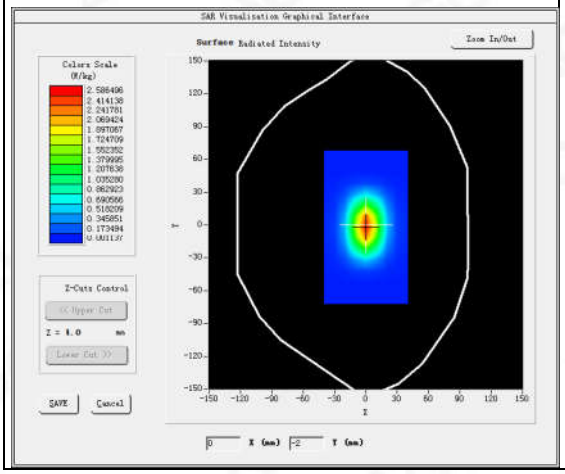
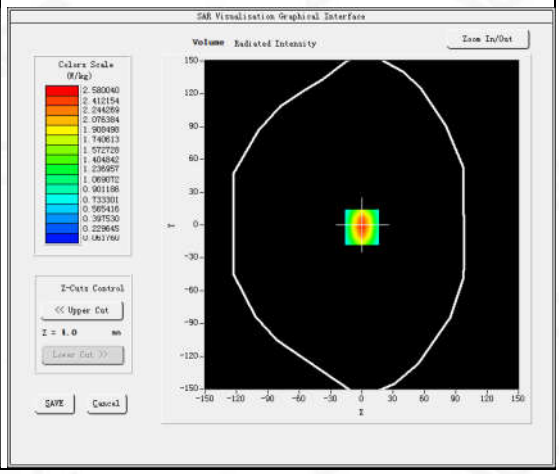


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Mar. 19,2020**
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=4.05
Frequency: 1750 MHz; Medium parameters used: f = 1800MHz; σ=1.35 mho/m; εr =39.62; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.2, Liquid temperature (℃): 20.9

SATIMO Configuration:
Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

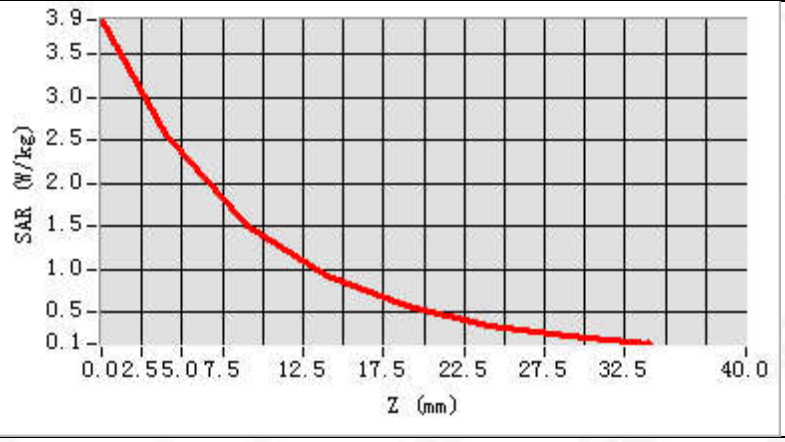
Configuration/System Check 1750MHz Head/Area Scan: Measurement grid: dx=10mm,dy=10mm
Configuration/System Check 1750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

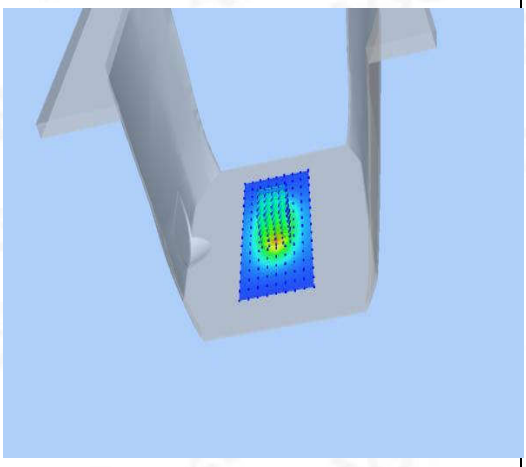
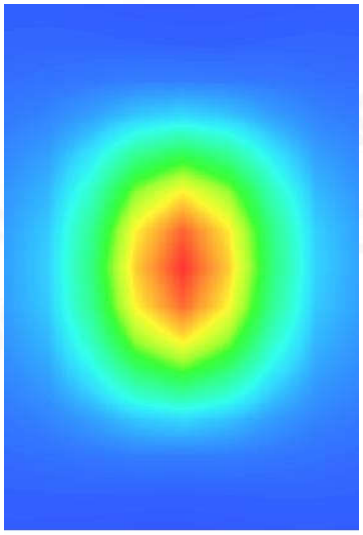
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=-2.00
SAR Peak: 3.88 W/kg

SAR 10g (W/Kg)	1.310546
SAR 1g (W/Kg)	2.413183

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.9062	2.5817	1.5121	0.9335	0.5687	0.3541	0.2112

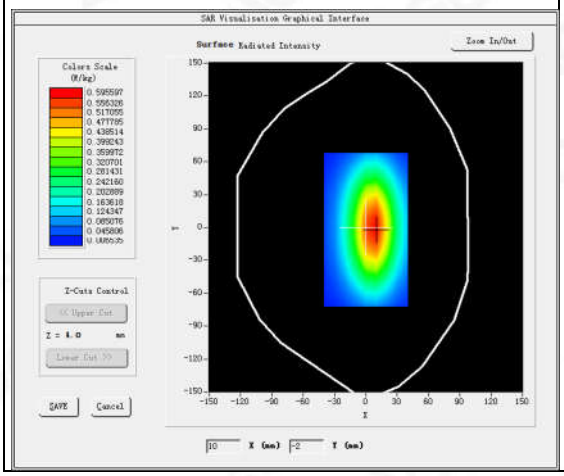
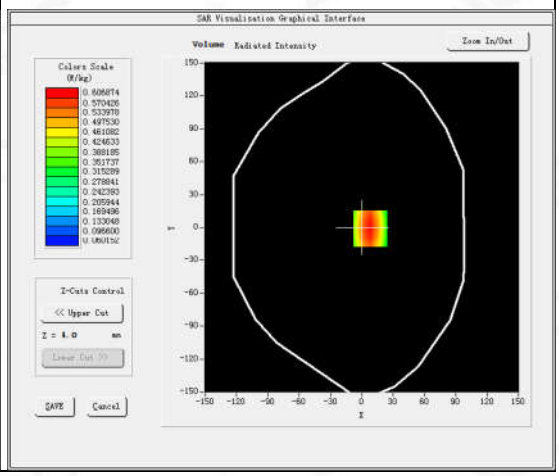


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Apr. 23,2020**
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=5.05
Frequency: 835 MHz; Medium parameters used: f = 850 MHz; σ=0.92 mho/m; εr =42.53; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.6, Liquid temperature (℃): 21.3

SATIMO Configuration:
- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

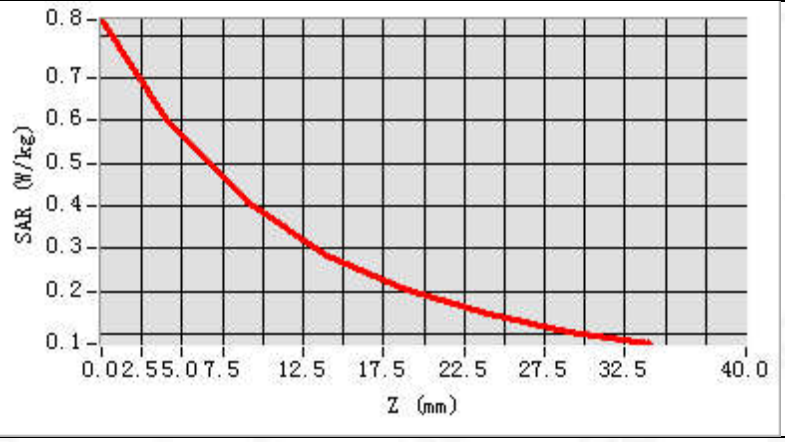
Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

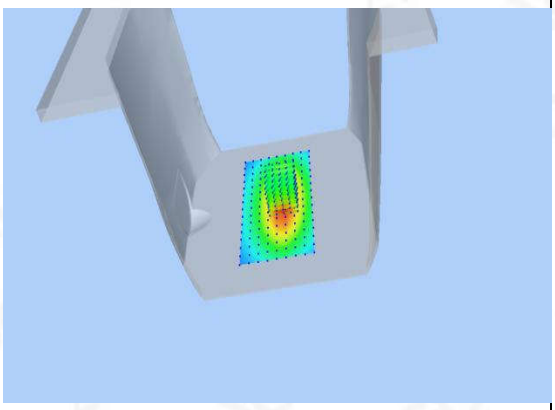
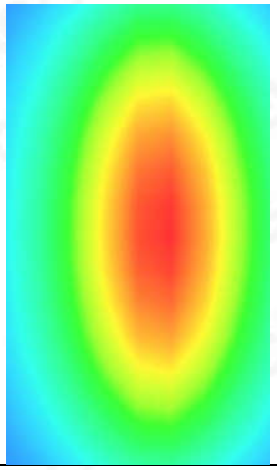
SURFACE SAR	VOLUME SAR
	

Maximum location: X=8.00, Y=-1.00
SAR Peak: 0.84 W/kg

SAR 10g (W/Kg)	0.389364
SAR 1g (W/Kg)	0.606253

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8371	0.6083	0.4147	0.2894	0.2019	0.1462	0.1055

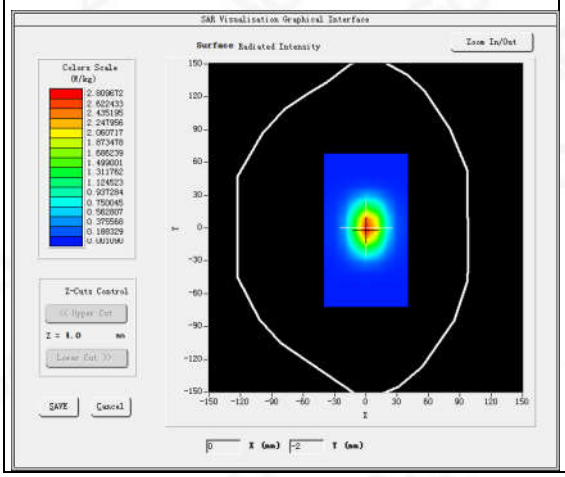
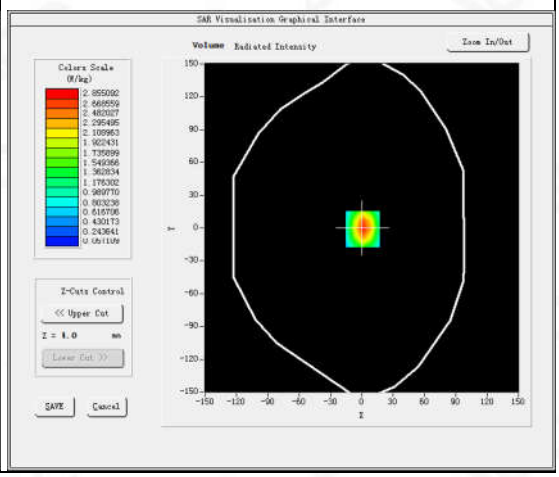


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Apr. 24,2020**
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=4.48
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ=1.35 mho/m; εr =39.53; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.3, Liquid temperature (℃): 21.0

SATIMO Configuration:
Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

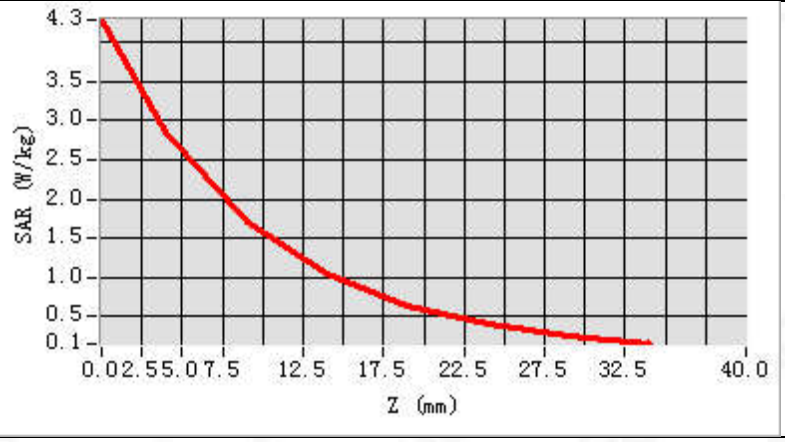
Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

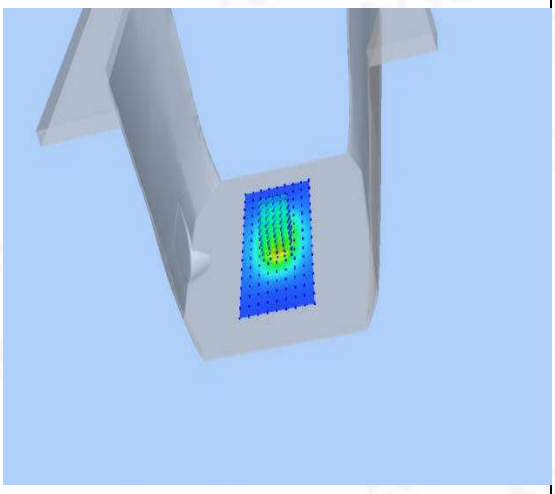
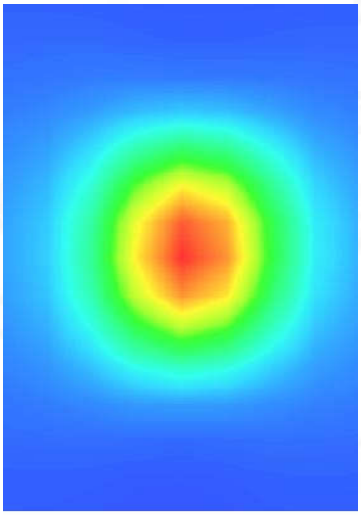
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=-1.00
SAR Peak: 4.29 W/kg

SAR 10g (W/Kg)	1.403685
SAR 1g (W/Kg)	2.657428

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.2827	2.8536	1.6945	1.0481	0.6373	0.3908	0.2447

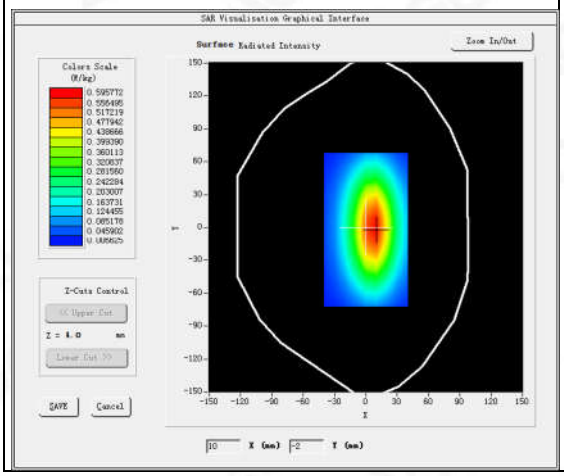
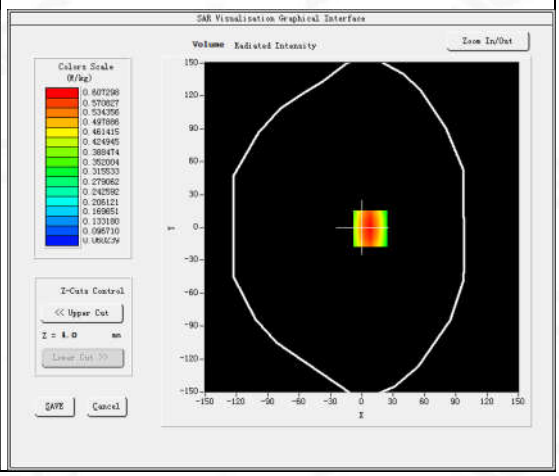


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Mar. 20,2020**
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=4.97
Frequency: 750 MHz; Medium parameters used: f = 750 MHz; σ=0.91 mho/m; εr =42.62; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.4, Liquid temperature (℃): 21.1

SATIMO Configuration:
- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

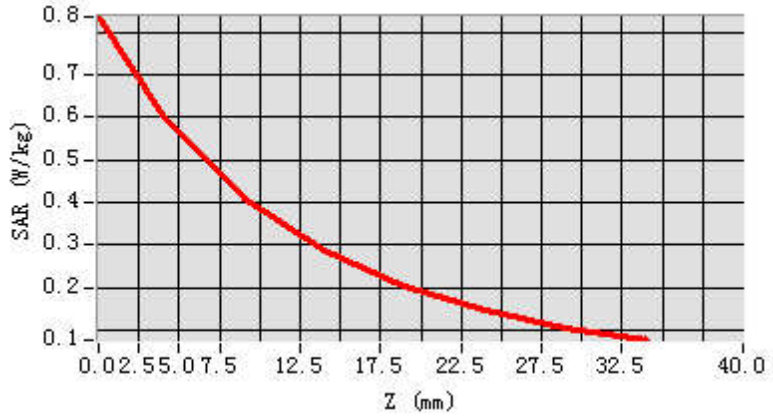
Configuration/System Check 750MHz Head/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/System Check 750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

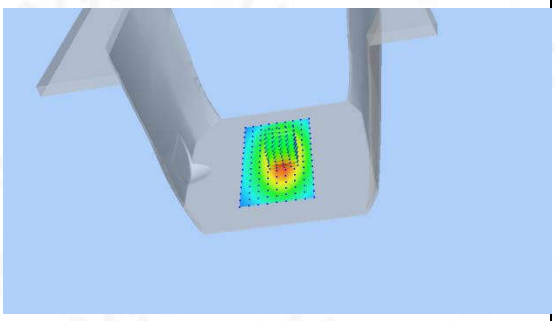
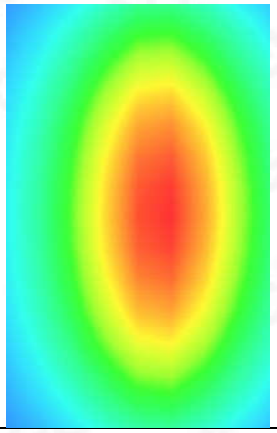
SURFACE SAR	VOLUME SAR
	

Maximum location: X=8.00, Y=-1.00
SAR Peak: 0.84 W/kg

SAR 10g (W/Kg)	0.352030
SAR 1g (W/Kg)	0.561271

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8327	0.6063	0.4141	0.2885	0.2042	0.1463	0.1074

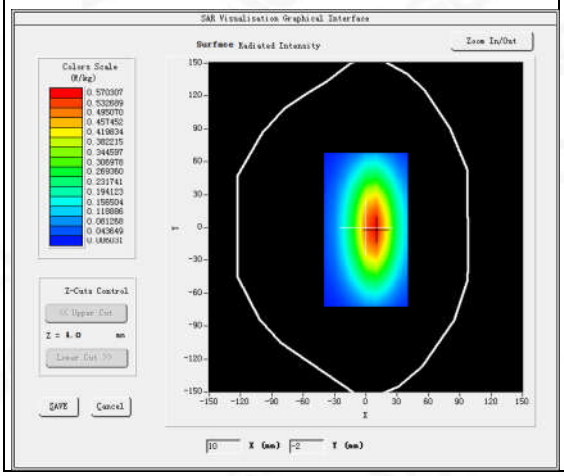
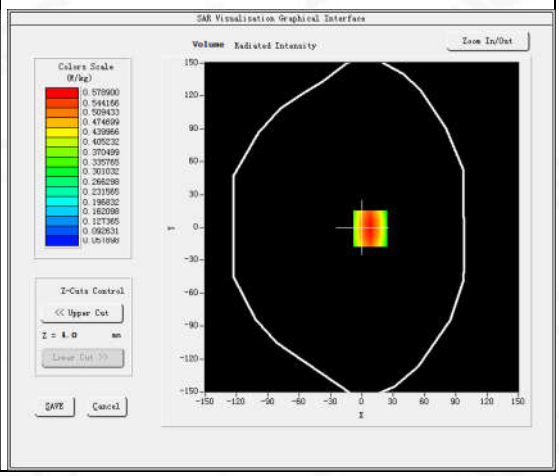


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Mar. 25,2020**
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=5.05
Frequency: 835 MHz; Medium parameters used: f = 850 MHz; σ=0.88 mho/m; εr =42.17; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.1, Liquid temperature (℃): 20.8

SATIMO Configuration:
- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

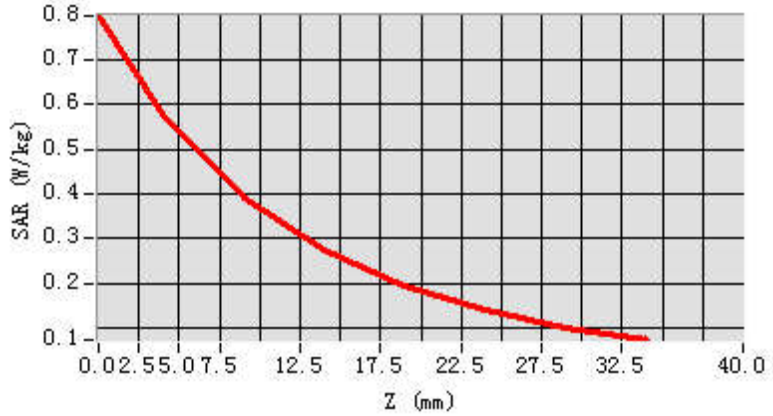
Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

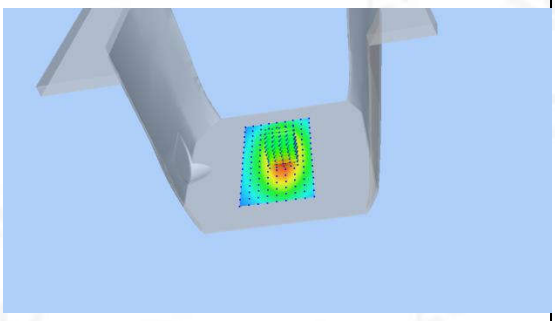
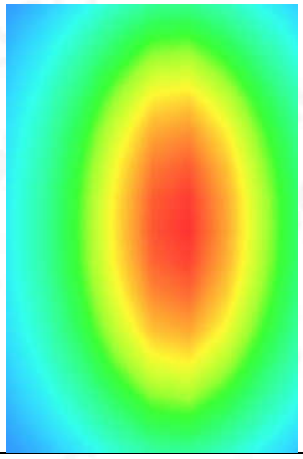
SURFACE SAR	VOLUME SAR
	

Maximum location: X=8.00, Y=-1.00
SAR Peak: 0.80 W/kg

SAR 10g (W/Kg)	0.360984
SAR 1g (W/Kg)	0.562683

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7924	0.5763	0.3984	0.2717	0.1936	0.1307	0.1062

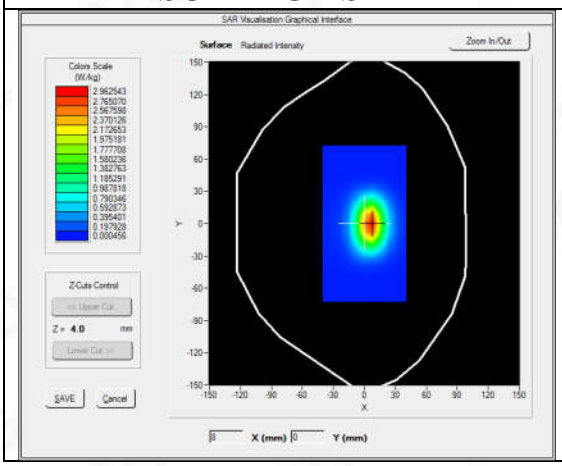
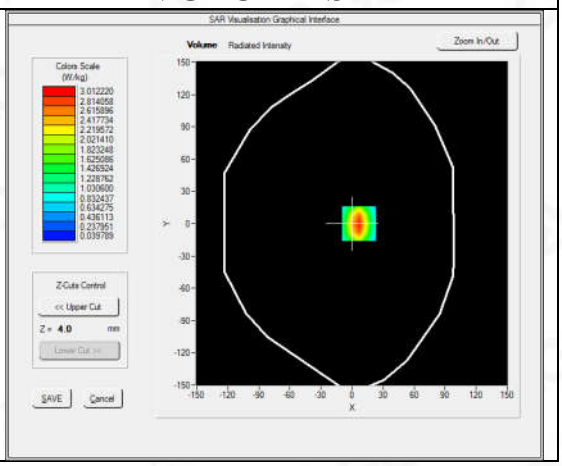


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Mar. 24,2020**
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=4.48
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ=1.37 mho/m; εr =39.62; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

SATIMO Configuration:
Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

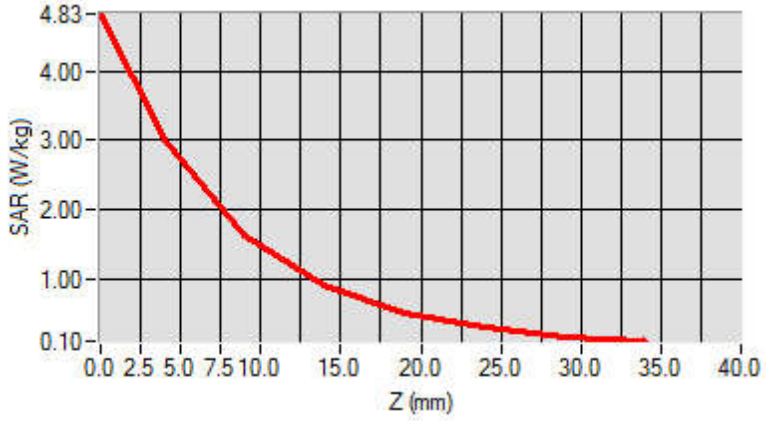
Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

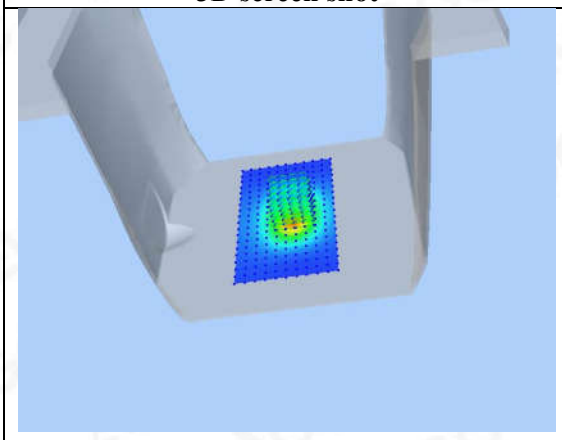
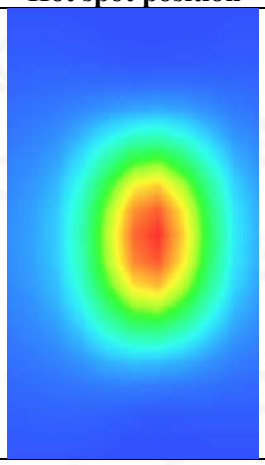
SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=0.00
SAR Peak: 4.81 W/kg

SAR 10g (W/Kg)	1.392058
SAR 1g (W/Kg)	2.767641

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.8236	3.0151	1.6227	0.9162	0.5107	0.2948	0.1631

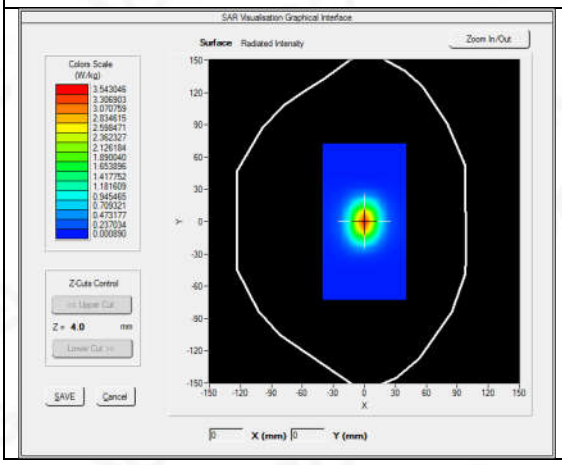
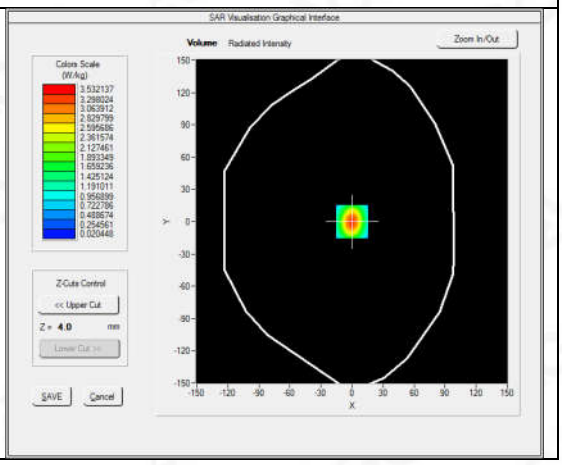


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Mar. 23,2020**
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=4.12
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ=1.75 mho/m; εr =38.94; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.2, Liquid temperature (℃): 20.9

SATIMO Configuration
- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

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=0.00, Y=0.00
SAR Peak: 5.93 W/kg

SAR 10g (W/Kg)	1.415824
SAR 1g (W/Kg)	3.226387