



FCC SAR Test Report

FCC ID: 2AUCY-V2543A

Project No. : 2602C252A
Equipment : Mobile Phone
Brand Name : vivo
Model Name : V2543
Date of Receipt : Jun. 05, 2026
Date of Test : Jun. 08, 2026 ~ Jul. 28, 2026
Issued Date : Jul. 29, 2026
Test Sample : Engineering Sample No.: DG920260605174
Standard(s) : Please refer to page 2.
Applicant : vivo Mobile Communication Co., Ltd.
Address : No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
Manufacturer : vivo Mobile Communication Co., Ltd.
Address : No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan).

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Standard(s)	: IEEE Std C95.1:2019 IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 kHz to 300 GHz IEEE Std 1528™-2013 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques KDB447498 D01 General RF Exposure Guidance v06 KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
Test method	: KDB865664 D02 SAR Reporting v01r02 KDB941225 D01 3G SAR Procedures v03r01 KDB941225 D05 SAR for LTE Devices v02r05 KDB941225 D06 Hotspot Mode V02r01 KDB248227 D01 802.11 Wi-Fi SAR v02r02 KDB648474 D04 Handset SAR v01r03 KDB690783 D01 SAR Listings on Grants v01r03

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

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BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCC SAR-1-2602C252A	R00	Original Report.	Jul. 29, 2026	Valid

1. GENERAL INFORMATION

1.1 STATEMENT OF COMPLIANCE

Mode	Highest Reported Head SAR-1g (W/kg)	Highest Reported Body-worn SAR-1g (W/kg)	Highest Reported Hotspot SAR-1g (W/kg)
GSM850	0.34	0.36	0.61
GSM1900	0.11	0.31	0.84
UMTS B2	0.21	0.39	0.53
UMTS B4	0.10	0.37	0.64
UMTS B5	0.23	0.27	0.33
LTE B2	0.14	0.27	0.49
LTE B4	0.09	0.29	0.49
LTE B5	0.18	0.21	0.40
LTE B7	0.30	0.41	0.69
LTE B13	0.07	0.19	0.24
LTE B26	0.23	0.24	0.39
LTE B38	0.18	0.34	0.56
LTE B41	0.22	0.31	0.61
LTE B66	0.13	0.33	0.55
WLAN 2.4G	0.92	0.34	0.77
WLAN 5.2G	0.99	0.79	0.64
WLAN 5.3G	0.81	0.99	0.54
WLAN 5.6G	1.10	0.46	0.89
WLAN 5.8G	0.86	0.42	0.79
Bluetooth	0.22	0.21	0.21

Note:

1) The device is in compliance with Specific Absorption Rate (SAR) for general population uncontrolled exposure limits according to the FCC rule §2.1093, the ANSI/IEEE C95.1, the NCRP Report Number 86 for uncontrolled environment, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528™.

1.2 LABORATORY ENVIRONMENT

Temperature	Min. = 18°C, Max. = 25°C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5Ω
Ambient noise is checked and found very low and in compliance with requirement of standards.	
Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

1.3 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone	
Brand Name	vivo	
Test Model	V2543	
Model Name	V2543	
Model Difference(s)	N/A	
IMEI Code	860473089999633/86047308999625	
S/N	10AG3H11PT0004S	
Hardware Version	MP_0.1	
Software Version	PD2533F_EX_A_w.x.y.z.W30	
Modulation	GSM(GMSK/8PSK), UMTS(QPSK/16QAM), LTE(QPSK/16QAM/64QAM), WiFi(DSSS/OFDM), BT(GFSK/π/4-DQPSK/8-DPSK)	
Operation Frequency Range(s)	Band	TX (MHz)
	GSM850	824~849
	GSM1900	1850~1910
	UMTS B2	1850~1910
	UMTS B4	1710~1755
	UMTS B5	824~849
	LTE B2	1850~1910
	LTE B4	1710~1755
	LTE B5	824~849
	LTE B7	2500~2570
	LTE B13	777~787
	LTE B26	814~849
	LTE B38	2570~2620
	LTE B41	2496~2690
	LTE B66	1710~1780
	Bluetooth	2400~2483.5
	WLAN 2.4G	2400~2483.5
	WLAN 5.2G	5150~5250
	WLAN 5.3G	5250~5350
	WLAN 5.6G	5470~5725
	WLAN 5.8G	5725~5850
GPRS/EDGE Multislot Class(12)	Max Number of Timeslots in Uplink:	4
	Max Number of Timeslots in Downlink:	4
	Max Total Timeslot:	5
Power Class	4, tested with power level 5(GSM850)	
	1, tested with power level 0(GSM1900)	
	3, tested with power control "all up bits" (UMTS B2/4/5)	
	3, tested with power control "all Max"(LTE B2/4/5/7/13/26/38/41/66)	
Test Channels (low-mid-high) For GSM / UMTS / LTE	128-190-251 (GSM850)	
	512-661-810 (GSM1900)	
	9262-9400-9538 (UMTS B2)	
	1312-1413-1513 (UMTS B4)	
	4132-4182-4233 (UMTS B5)	
	18700-18900-19100 (LTE B2 BW=20MHz)	
	20050-20175-20300 (LTE B4 BW=20MHz)	
	20450-20525-20600 (LTE B5 BW=10MHz)	
	20850-21100-21350 (LTE B7 BW=20MHz)	
	23230 (LTE B13 BW=10MHz)	
	26765-26865-26965 (LTE B26 BW=15MHz)	
	37850-38000-38150 (LTE B38 BW=20MHz)	
	39750-40185-40620-41055-41490 (LTE B41 BW=20MHz)	
	132072-132322-132572 (LTE B66 BW=20MHz)	

Test Channels (low-mid-high) For BT / WIFI	0-39-78 (BT)						
	0-19-39 (BLE)						
	1-6-11 (2.4G WiFi 802.11b/g/n HT20)						
	3-6-9 (2.4G WiFi 802.11n HT40)						
	5G WiFi	5.2G	5.3G	5.6G	5.8G		
	802.11a/n HT20/ ac VHT20	36-48	52-64	100-120-140	149-157-165		
	802.11n HT40/ ac VHT40	38-46	54-62	102-118-134	151-159		
	802.11ac VHT80	42	58	106-122	155		
Antenna Information	Manufacturer	Model Name	Type	Gain (dBi)	Band		
	Kunshan Innowave Communication Technology Co., Ltd.	Ant 31#	PIFA	-5.46	GSM850		
			PIFA	0.18	GSM1900		
			PIFA	0.18	UMTS B2		
			PIFA	-2.75	UMTS B4		
			PIFA	-5.57	UMTS B5		
			PIFA	0.18	LTE B2		
			PIFA	-2.75	LTE B4		
			PIFA	-5.57	LTE B5		
			PIFA	0.94	LTE B7		
			PIFA	-8.53	LTE B13		
			PIFA	-5.57	LTE B26		
			PIFA	0.31	LTE B38		
			PIFA	0.84	LTE B41		
			PIFA	-1.84	LTE B66		
		Ant 13#	PIFA	-3.44	UMTS B2		
			PIFA	-3.04	UMTS B4		
			PIFA	-5.98	UMTS B5		
			PIFA	-3.44	LTE B2		
			PIFA	-3.04	LTE B4		
			PIFA	-5.98	LTE B5		
			PIFA	0.45	LTE B7		
			PIFA	-6.32	LTE B13		
			PIFA	-8.16	LTE B26		
			PIFA	0.67	LTE B38		
			PIFA	0.67	LTE B41		
			PIFA	-1.92	LTE B66		
			Ant 22#	PIFA	0.2	Bluetooth	
					0.2	WLAN 2.4G	
		1.6			WLAN 5G		
		Other Information					
		Battery	Trademark	vivo			
Model Name			BB45				
Power Rating	DC 3.92V, 7060mAh, 27.68Wh						
USB-C Cable	Trademark	vivo					
	Model Name	BK-C-49-B					

Note:

- 1) The antenna gain is provided by the manufacturer.
- 2) According to BTL-FCCP-10-2602C252A NFC R00 report, the maximum field strength of the NFC antenna is 66.51 dBuV/m, which is equivalent to 0.00081899mW. Referring to §1.1307(b)(3)(i)(A), RF Exposure testing is not required when the power is less than 1mW.

1.4 MAIN TEST INSTRUMENTS

Item	Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Interval
1	DASY5 System	Speag	DASY 5	N/A	N/A	N/A
2	Data Acquisition Electronics	Speag	DAE4	420	Apr. 17, 2026	1 Year
3	Data Acquisition Electronics	Speag	DAE4	1390	Nov. 19, 2025	1 Year
4	E-field Probe	Speag	EX3DV4	3809	Feb. 09, 2026	1 Year
5	E-field Probe	Speag	EX3DV4	7693	Nov. 26, 2025	1 Year
6	System Validation Dipole	Speag	D750V3	1095	Sep. 16, 2024	3 Years
7	System Validation Dipole	Speag	D835V2	4d160	Apr. 25, 2024	3 Years
8	System Validation Dipole	Speag	D1750V2	1101	Apr. 25, 2024	3 Years
9	System Validation Dipole	Speag	D1900V2	5d179	Apr. 25, 2024	3 Years
10	System Validation Dipole	Speag	D2300V2	1033	Sep. 13, 2024	3 Years
11	System Validation Dipole	Speag	D2450V2	919	Apr. 22, 2024	3 Years
12	System Validation Dipole	Speag	D2600V2	1067	Apr. 22, 2024	3 Years
13	System Validation Dipole	Speag	D5GHzV2	1160	Apr. 25, 2024	3 Years
14	Twin Sam Phantom	Speag	Twin Sam Phantom V5.0	1469	N/A	N/A
15	Twin Sam Phantom	Speag	Twin Sam Phantom V5.0	1896	N/A	N/A
16	Wideband Radio Communication Tester	R&S	CMW500	165848	Dec. 20, 2025	1 Year
17	Power Amplifier	Mini-Circuits	ZHL-42W+	QA1333003	May 29, 2025	1 Year
18	Power Amplifier	Mini-Circuits	ZVE-8G+	520701341	Dec. 20, 2025	1 Year
19	DC Source meter	Iteck	IT6154	006104126768201001	May. 29, 2025	1 Year
20	Vector Network Analyzer	Agilent	E5071C	MY46102965	Dec. 20, 2025	1 Year
21	Signal Generator	Agilent	N5172B	MY53050758	Dec. 20, 2025	1 Year
22	Smart Power Sensor	R&S	NRP-Z21	102209	Dec. 20, 2025	1 Year
23	3.5mm Economy Calibration Kit	Agilent	85052D	MY43252246	Nov. 20, 2025	1 Year
24	Dielectric Assessment Kit	Speag	DAK-3.5	1226	Jan. 20, 2025	1 Year
25	Directional Coupler	Talent Microwave	TC-05180-20S	210628013	Dec. 20, 2025	1 Year
26	Coupler	Woken	ATD10-400M-6G-A2	2021008	Apr. 26, 2026	1 Year
27	Liquid Thermometer	Nscing Es	YZ6021S	/	Nov. 13, 2025	1 Year

Remark:

1. "N/A" denotes no model name, serial No. or calibration specified.
- 2.
- 1) Per KDB865664 D01 requirements for dipole calibration, the test laboratory has adopted three-year extended calibration interval. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
 - a) There is no physical damage on the dipole;
 - b) System check with specific dipole is within 10% of calibrated value;
 - c) The most recent return-loss result, measured at least annually, deviates by no more than 20% from the previous measurement;
 - d) The most recent measurement of the real or imaginary parts of the impedance, measured at least annually is within 5Ω from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a short block performed before measuring liquid parameters.

2. RF EMISSIONS MEASUREMENT

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is SAR room at the location of No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

BTL's Registration Number for FCC: 747969.

BTL's Designation Number for FCC: CN1377.

2.2 MEASUREMENT UNCERTAINTY

Note: The test uses more than one Probe, and only the worst uncertainty result is presented.

Uncertainty Budget for Frequency range of 300 MHz to 3 GHz

Symbol	Input quantity X_i (source of uncertainty)	Unc. Value	Prob. Dist.	Div.	c_i (1g)	c_i (10g)	Std.Unc. (1g) (±%)	Std.Unc. (10g) (±%)
Measurement system errors								
CF	Probe calibration(±%)	13.0	N	2	1	1	6.5	6.5
CF_{drift}	Probe calibration drift(±%)	1.7	R	$\sqrt{3}$	1	1	1.0	1.0
LIN	Probe linearity and detection limit(±%)	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
BBS	Broadband signal(±%)	3.0	R	$\sqrt{3}$	1	1	1.7	1.7
ISO	Probe isotropy(±%)	7.6	R	$\sqrt{3}$	1	1	4.4	4.4
DAE	Other probe and data acquisition errors(±%)	0.7	N	1	1	1	0.7	0.7
AMB	RF ambient and noise(±%)	1.8	N	1	1	1	1.8	1.8
Δ_{xyz}	Probe positioning errors(±mm)	0.006	N	1	0.14	0.14	0.08	0.08
DAT	Data processing errors(±%)	1.2	N	1	1	1	1.2	1.2
Phantom and device (DUT or validation antenna) errors								
LIQ(σ)	Conductivity (meas.)(±%)	2.7	N	1	0.78	0.71	2.1	1.9
LIQ(T_c)	Conductivity (temp.)(±%)	4.16	R	$\sqrt{3}$	0.78	0.71	1.9	1.7
EPS	Phantom Permittivity(±%)	14	R	$\sqrt{3}$	0	0	0.0	0.0
DIS	Distance DUT - TSL(±%)	2	N	1	2	2	4.0	4.0
D_{xyz}	Device Positioning(±%)	1.1	N	1	1	1	1.1	1.1
H	Device Holder(±%)	2.4	N	1	1	1	2.4	2.4
MOD	DUT Modulationm(±%)	2.4	R	$\sqrt{3}$	1	1	1.4	1.4
TAS	Time-average SAR(±%)	1.7	R	$\sqrt{3}$	1	1	1.0	1.0
RF_{drift}	DUT drift(±%)	1.7	N	1	1	1	1.7	1.7
VAL	Val Antenna Unc.(±%)	0	N	1	1	1	0.0	0.0
P_{in}	Unc. Input Power(±%)	0	N	1	1	1	0.0	0.0
Corrections to the SAR result								
$C(\epsilon', \sigma)$	Deviation to Target(±%)	1.9	N	1	1	0.84	1.9	1.6
$C(R)$	SAR scaling(±%)	0	R	$\sqrt{3}$	1	1	0.0	0.0
$u(\Delta SAR)$	Combined uncertainty						10.9	10.8
	Coverage Factor for 95%						k=2	k=2
U	Expanded uncertainty					U =	21.8	21.5

a Other probability distributions and divisors may be used if they better represent available knowledge of the quantities concerned.

Uncertainty Budget for Frequency range of 3 GHz to 6 GHz

Symbol	Input quantity X_i (source of uncertainty)	Unc. Value	Prob. Dist.	Div.	ci (1g)	ci (10g)	Std.Unc. (1g) (±%)	Std.Unc. (10g) (±%)
Measurement system errors								
CF	Probe calibration(±%)	13.9	N	2	1	1	7.0	7.0
CF_{drift}	Probe calibration drift(±%)	1.7	R	$\sqrt{3}$	1	1	1.0	1.0
LIN	Probe linearity and detection limit(±%)	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
BBS	Broadband signal(±%)	2.6	R	$\sqrt{3}$	1	1	1.5	1.5
ISO	Probe isotropy(±%)	7.6	R	$\sqrt{3}$	1	1	4.4	4.4
DAE	Other probe and data acquisition errors(±%)	1.2	N	1	1	1	1.2	1.2
AMB	RF ambient and noise(±%)	1.8	N	1	1	1	1.8	1.8
Δ_{xyz}	Probe positioning errors(±mm)	0.005	N	1	0.29	0.29	0.15	0.15
DAT	Data processing errors(±%)	2.3	N	1	1	1	2.3	2.3
Phantom and device (DUT or validation antenna) errors								
LIQ(σ)	Conductivity (meas.)(±%)	3.0	N	1	0.78	0.71	2.3	2.1
LIQ(T_c)	Conductivity (temp.)(±%)	2.45	R	$\sqrt{3}$	0.78	0.71	1.1	1.0
EPS	Phantom Permittivity(±%)	14	R	$\sqrt{3}$	0.25	0.25	2.0	2.0
DIS	Distance DUT - TSL(±%)	2	N	1	2	2	4.0	4.0
D_{xyz}	Device Positioning(±%)	0.6	N	1	1	1	0.6	0.6
H	Device Holder(±%)	2.7	N	1	1	1	2.7	2.7
MOD	DUT Modulationm(±%)	2.4	R	$\sqrt{3}$	1	1	1.4	1.4
TAS	Time-average SAR(±%)	1.7	R	$\sqrt{3}$	1	1	1.0	1.0
RF_{drift}	DUT drift(±%)	-1.3	N	1	1	1	-1.3	-1.3
VAL	Val Antenna Unc.(±%)	0	N	1	1	1	0.0	0.0
P_{in}	Unc. Input Power(±%)	0	N	1	1	1	0.0	0.0
Corrections to the SAR result								
$C(\epsilon', \sigma)$	Deviation to Target(±%)	1.9	N	1	1	0.84	1.9	1.6
$C(R)$	SAR scaling(±%)	0	R	$\sqrt{3}$	1	1	0.0	0.0
$u(\Delta SAR)$	Combined uncertainty						11.4	11.3
	Coverage Factor for 95%						k=2	k=2
U	Expanded uncertainty					U =	22.9	22.7
a Other probability distributions and divisors may be used if they better represent available knowledge of the quantities concerned.								

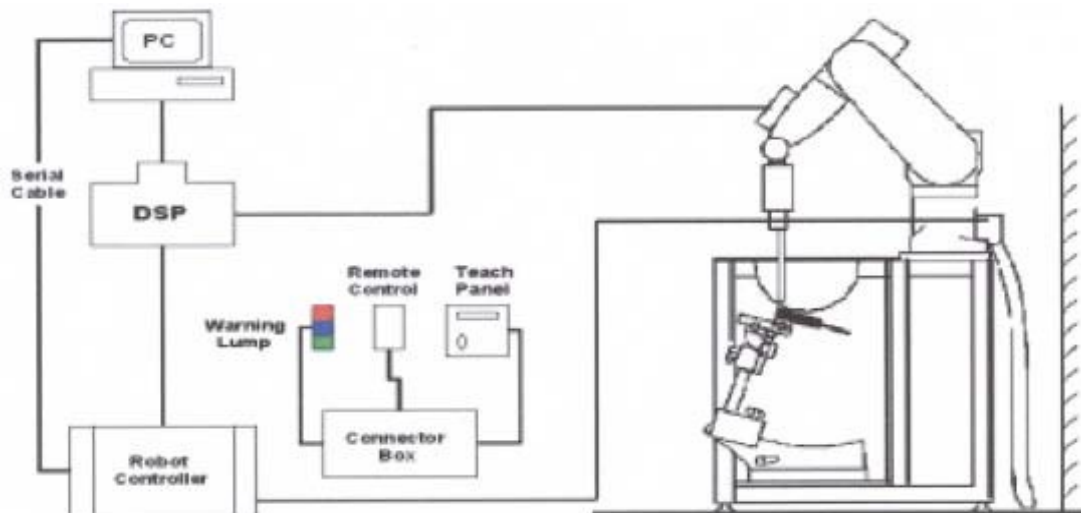
3. SAR MEASUREMENTS SYSTEM CONFIGURATION

3.1 SAR MEASUREMENT SET-UP

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

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY measurement server.
6. The DASY measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. A computer operating Windows.
7. DASY software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

3.1.1 TEST SETUP LAYOUT



3.2 DASY E-FIELD PROBE SYSTEM

The SAR measurements were conducted with the dosimetric probe EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric valuation.

3.2.1 PROBE SPECIFICATION

EX3DV4

Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available
Frequency	4 MHz to 10 GHz Linearity: ± 0.2 dB (30 MHz to 10 GHz)
Directivity	± 0.1 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1.0 mm

Note: This size is only the standard information for the E-Field Probe device. For the exact dimensions, please refer to the calibration report in the appendix.



E-field Probe

3.2.2 E-FIELD PROBE CALIBRATION

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy was evaluated and found to be better than $\pm 0.25\text{dB}$. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz, and in a wave guide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$\text{SAR} = C \frac{\Delta T}{\Delta t}$$

Where: Δt = Exposure time (30 seconds),

C = Heat capacity of tissue (brain or muscle),

ΔT = Temperature increase due to RF exposure.

Or

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

Where: σ = Simulated tissue conductivity,

ρ = Tissue density (kg/m^3).

3.2.3 OTHER TEST EQUIPMENT

3.2.3.1. Device Holder for Transmitters

Construction: Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices (e.g., laptops, cameras, etc.) It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioner. The extension is fully compatible with the Twin SAM, ELI Phantoms.

Material: POM, Acrylic glass, Foam

3.2.3.2 Phantom

Model	Twin SAM	
Construction	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEC/IEEE 62209-1528. It enables the dosimetric evaluation of left—and right-hand phone usage as well as body-mounted usage at the flat phantom region. A cover prevents the liquid from evaporating. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length:1000mm; Width: 500mm Height: adjustable feet	
Available	Special	

3.2.4 SCANNING PROCEDURE

The DASYS system installation includes predefined files with recommended procedures for measurements and validation. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.

The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the DUT’s output power and should vary max. $\pm 5\%$.

Both area scanning and zoom scanning comply with the IEC/IEEE 62209-1528 standard.

- Area Scan

Table 3 – Area scan parameters

Parameter	DUT transmit frequency being tested	
	$f \leq 3 \text{ GHz}$	$3 \text{ GHz} < f \leq 10 \text{ GHz}$
Maximum distance between the measured points (geometric centre of the sensors) and the inner phantom surface (z_{M1} in Figure 20 in mm)	5 ± 1	$\delta \ln(2)/2 \pm 0,5^a$
Maximum spacing between adjacent measured points in mm (see O.8.3.1) ^b	20, or half of the corresponding zoom scan length, whichever is smaller	$60/f$, or half of the corresponding zoom scan length, whichever is smaller
Maximum angle between the probe axis and the phantom surface normal (α in Figure 20) ^c	5° (flat phantom only) 30° (other phantoms)	5° (flat phantom only) 20° (other phantoms)
Tolerance in the probe angle	1°	1°
^a δ is the penetration depth for a plane-wave incident normally on a planar half-space. ^b See Clause O.8 on how Δx and Δy may be selected for individual area scan requirements. ^c The probe angle relative to the phantom surface normal is restricted due to the degradation in the measurement accuracy in fields with steep spatial gradients. The measurement accuracy decreases with increasing probe angle and increasing frequency. This is the reason for the tighter probe angle restriction at frequencies above 3 GHz.		

- Zoom Scan

Table 4 – Zoom scan parameters

Parameter	DUT transmit frequency being tested	
	$f \leq 3 \text{ GHz}$	$3 \text{ GHz} < f \leq 10 \text{ GHz}$
Maximum distance between the closest measured points and the phantom surface (z_{M1} in Figure 20 and Table 3, in mm)	5	$\delta \ln(2)/2^a$
Maximum angle between the probe axis and the phantom surface normal (α in Figure 20)	5° (flat phantom only) 30° (other phantoms)	5° (flat phantom only) 20° (other phantoms)
Maximum spacing between measured points in the x - and y -directions (Δx and Δy , in mm)	8	$24/f^b$
For uniform grids: Maximum spacing between measured points in the direction normal to the phantom shell (Δz_1 in Figure 20, in mm)	5	$10/(f - 1)$
For graded grids: Maximum spacing between the two closest measured points in the direction normal to the phantom shell (Δz_1 in Figure 20, in mm)	4	$12/f$
For graded grids: Maximum incremental increase in the spacing between measured points in the direction normal to the phantom shell ($R_z = \Delta z_2/\Delta z_1$ in Figure 20)	1,5	1,5
Minimum edge length of the zoom scan volume in the x - and y -directions (L_z in O.8.3.2, in mm)	30	22
Minimum edge length of the zoom scan volume in the direction normal to the phantom shell (L_n in O.8.3.2 in mm)	30	22
Tolerance in the probe angle	1°	1°
^a δ is the penetration depth for a plane-wave incident normally on a planar half-space.		
^b This is the maximum spacing allowed, which might not work for all circumstances.		

4. SYSTEM VERIFICATION PROCEDURE

4.1 TISSUE VERIFICATION

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameter are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.

The following materials are used for producing the tissue-equivalent materials.

Tissue Type	Bactericide	DGBE	HEC	NaCl	Sucrose	Triton X-100	Water	Diethylene Glycol Mono-hexylether
Head 750	0.2	-	0.2	1.5	56.0	-	42.1	-
Head 835	0.2	-	0.2	1.5	57.0	-	41.1	-
Head 1750	-	47.0	-	0.4	-	-	52.6	-
Head 1900	-	44.5	-	0.2	-	-	55.3	-
Head 2300	-	44.9	-	0.1	-	-	55.0	-
Head 2450	-	45.0	-	0.1	-	-	54.9	-
Head 2600	-	45.1	-	0.1	-	-	54.8	-
Head 5G	-	-	-	-	-	17.2	65.5	17.3

Tissue Verification									
Tissue Type	Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Targeted Conductivity (σ)	Targeted Permittivity (ϵ_r)	Deviation Conductivity (σ) (%)	Deviation Permittivity (ϵ_r) (%)	Date
Head	750	22.1	0.875	42.615	0.89	41.9	-1.69	1.71	Jul. 19, 2026
Head	750	22.4	0.876	42.612	0.89	41.9	-1.57	1.70	Jul. 20, 2026
Head	750	22.3	0.876	42.607	0.89	41.9	-1.57	1.67	Jul. 21, 2026
Head	835	22.1	0.926	42.176	0.90	41.5	2.89	1.63	Jul. 16, 2026
Head	835	22.1	0.926	42.179	0.90	41.5	2.89	1.64	Jul. 19, 2026
Head	835	22.4	0.926	42.178	0.90	41.5	2.89	1.63	Jul. 20, 2026
Head	835	22.3	0.926	42.172	0.90	41.5	2.89	1.62	Jul. 21, 2026
Head	1750	22.5	1.325	38.916	1.37	40.1	-3.28	-2.95	Jul. 17, 2026
Head	1750	22.4	1.324	39.020	1.37	40.1	-3.36	-2.69	Jul. 18, 2026
Head	1750	22.4	1.326	39.028	1.37	40.1	-3.21	-2.67	Jul. 23, 2026
Head	1750	22.1	1.325	39.019	1.37	40.1	-3.28	-2.70	Jul. 28, 2026
Head	1900	22.5	1.356	39.320	1.40	40.0	-3.14	-1.70	Jul. 17, 2026
Head	1900	22.4	1.353	39.315	1.40	40.0	-3.36	-1.71	Jul. 18, 2026
Head	1900	22.5	1.353	39.316	1.40	40.0	-3.36	-1.71	Jul. 27, 2026
Head	2300	22.5	1.718	40.019	1.67	39.5	2.87	1.31	Jul. 22, 2026
Head	2300	22.2	1.708	39.017	1.67	39.5	2.28	-1.22	Jul. 25, 2026
Head	2300	22.1	1.708	39.029	1.67	39.5	2.28	-1.19	Jul. 26, 2026
Head	2450	22.6	1.884	39.539	1.80	39.2	4.67	0.86	Jul. 20, 2026
Head	2600	22.5	2.055	38.831	1.96	39.0	4.85	-0.43	Jul. 22, 2026
Head	2600	22.1	2.043	37.866	1.96	39.0	4.23	-2.91	Jul. 24, 2026
Head	2600	22.1	2.045	37.852	1.96	39.0	4.34	-2.94	Jul. 26, 2026
Head	5250	22.5	4.734	36.219	4.71	36.0	0.51	0.75	Jul. 21, 2026
Head	5600	22.5	5.141	35.386	5.07	35.5	1.40	-0.32	Jul. 22, 2026
Head	5750	22.5	5.314	35.068	5.22	35.4	1.80	-0.80	Jul. 22, 2026

Note:

- 1) The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.
- 2) The above measured tissue parameters were used in the DASY software to perform interpolation via the DASY software to determine actual dielectric parameters at the test frequencies. The SAR test plots may slightly differ from the table above since the DASY rounds to three significant digits.

4.2 SYSTEM CHECK

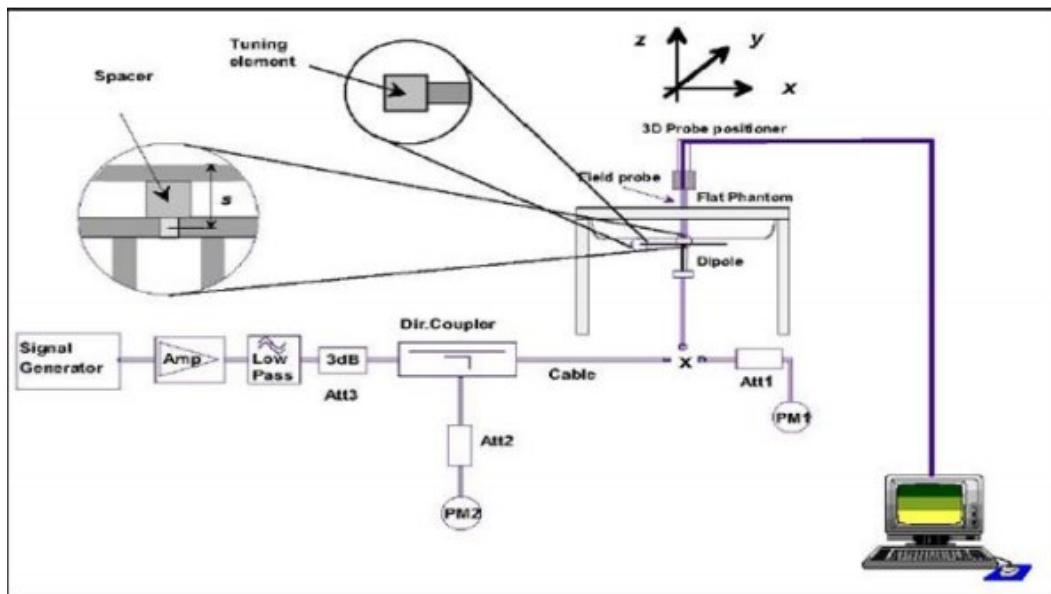
The system check is performed for verifying the accuracy of the complete measurement system and performance of the software. The system check is performed with tissue equivalent material according to IEEE Std 1528™ (described above). The following table shows system check results for all frequency bands and tissue liquids used during the tests.

System Check	Date	Frequency (MHz)	Targeted SAR 1g (W/kg)	Measured SAR 1g (W/kg)	normalized SAR 1g (W/kg)	Deviation 1g (%)	Dipole S/N
Head	Jul. 19, 2026	750	8.48	0.826	8.26	-2.59	1095
Head	Jul. 20, 2026	750	8.48	0.808	8.08	-4.72	1095
Head	Jul. 21, 2026	750	8.48	0.835	8.35	-1.53	1095
Head	Jul. 16, 2026	835	9.83	0.958	9.58	-2.54	4d160
Head	Jul. 19, 2026	835	9.83	0.968	9.68	-1.53	4d160
Head	Jul. 20, 2026	835	9.83	0.984	9.84	0.10	4d160
Head	Jul. 21, 2026	835	9.83	0.992	9.92	0.92	4d160
Head	Jul. 17, 2026	1750	37.00	3.720	37.20	0.54	1101
Head	Jul. 18, 2026	1750	37.00	3.800	38.00	2.70	1101
Head	Jul. 23, 2026	1750	37.00	3.720	37.20	0.54	1101
Head	Jul. 28, 2026	1750	37.00	3.750	37.50	1.35	1101
Head	Jul. 17, 2026	1900	39.40	3.890	38.90	-1.27	5d179
Head	Jul. 18, 2026	1900	39.40	4.040	40.40	2.54	5d179
Head	Jul. 27, 2026	1900	39.40	4.070	40.70	3.30	5d179
Head	Jul. 22, 2026	2300	49.80	5.250	52.50	5.42	1033
Head	Jul. 25, 2026	2300	49.80	5.220	52.20	4.82	1033
Head	Jul. 26, 2026	2300	49.80	5.120	51.20	2.81	1033
Head	Jul. 20, 2026	2450	53.10	5.100	51.00	-3.95	919
Head	Jul. 22, 2026	2600	56.80	5.930	59.30	4.40	1067
Head	Jul. 24, 2026	2600	56.80	5.720	57.20	0.70	1067
Head	Jul. 26, 2026	2600	56.80	5.520	55.20	-2.82	1067
Head	Jul. 21, 2026	5250	78.70	8.15	81.50	3.56	1160
Head	Jul. 22, 2026	5600	81.80	8.11	81.10	-0.86	1160
Head	Jul. 22, 2026	5750	78.70	7.94	79.40	0.89	1160

4.3 SYSTEM CHECK PROCEDURE

The system check is performed by using a system check dipole which is positioned parallel to the planar part of the phantom at the reference point. The distance of the dipole to the SAM phantom is determined by a plexiglass spacer. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. The forward power supplied to the system check antenna shall produce a psSAR of at least 0,4 W/kg. The 1 g or 10 g psSAR range is 0,4 W/kg to 10 W/kg.

The power sensor is connected to the cable before the system check to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the system check to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test. System check results have to be equal or near the values determined during dipole calibration (target SAR in table above) with the relevant liquids and test system ($\pm 10\%$).



5. OPERATIONAL CONDITIONS DURING TEST

5.1 GENERAL DESCRIPTION OF TEST PROCEDURES

Connection to the EUT is established via air interface with R&S CMW500, and the EUT is Set to maximum output power by R&S CMW500. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output. The antenna connected to the output of the base station simulator shall be placed at least 50cm away from the EUT. The signal transmitted by the simulator to the antenna feeding point shall be lower than the output power level of the EUT by at least 30dB.

5.2 SAR TEST CONFIGURATION

5.2.1 GSM TEST CONFIGURATION

SAR tests for GSM850 and GSM1900, a communication link is set up with a base station by air link. Using 8960 Series the power lever is set to "5" and "0" in SAR of GSM850 and GSM1900. The tests in the band of GSM850 and GSM1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8PSK.

According to specification 3GPP TS 51.010, the maximum power of the GSM can do the power reduction for the multi-slot.

The allowed power reduction in the multi-slot configuration is as following:

Number of timeslots in uplink assignment		Reduction of maximum output power (dB)		
Band	Time Slots	GPRS (GMSK)	EGPRS (GMSK)	EGPRS (8PSK)
GSM850	1 TX slot	0.0	0.0	6.4
	2 TX slots	3.0	3.0	9.4
	3 TX slots	4.8	4.8	11.2
	4 TX slots	6.0	6.0	12.4
GSM1900	1 TX slot	0.0	0.0	4.3
	2 TX slots	3.0	3.0	7.3
	3 TX slots	4.8	4.8	9.1
	4 TX slots	6.0	6.0	10.3

5.2.2 UMTS TEST CONFIGURATION

1. Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the procedures description in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1s" for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Result for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) should be tabulated in the SAR report. All configuration that are not supported by the DUT or cannot be measured due to technical or equipment limitation should be clearly identified.

2. WCDMA

(1) Head SAR Measurements

SAR for next to ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1s". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR with 3.4kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

(2) Body SAR Measurements

SAR for body-worn accessory is measured using the 12.2 kbps RMC with the TPC bits configured to all "1s". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by handset with 12.2 kbps RMC as the primary mode.

3. HSDPA

SAR for body exposure configurations is measured according to the "Body SAR Measurements" procedures of 3G device. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as "otherwise" in the applicable procedures; SAR measurement is required for the secondary mode.

Per KDB941225 D01, the 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures for the highest reported SAR body exposure configuration in 12.2 kbps RMC.

HSDPA should be configured according to UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HAPRQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission condition, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. The β_c and β_d gain factors for DPCCH and DPDCH were set according to the values in the below table, β_{hs} for HS-DPCCH is set automatically to the correct value when ΔACK , $\Delta NACK$, $\Delta CQI = 8$. The variation of the β_c / β_d ratio causes a power reduction at sub-tests 2 - 4.

Sub-test ^o	β_c ^o	β_d ^o	β_d (SF) ^o	β_c / β_d ^o	β_{hs} (1) ^o	CM(dB)(2) ^o	MPR (dB) ^o
1 ^o	2/15 ^o	15/15 ^o	64 ^o	2/15 ^o	4/15 ^o	0.0 ^o	0 ^o
2 ^o	12/15(3) ^o	15/15(3) ^o	64 ^o	12/15(3) ^o	24/15 ^o	1.0 ^o	0 ^o
3 ^o	15/15 ^o	8/15 ^o	64 ^o	15/8 ^o	30/15 ^o	1.5 ^o	0.5 ^o
4 ^o	15/15 ^o	4/15 ^o	64 ^o	15/4 ^o	30/15 ^o	1.5 ^o	0.5 ^o
Note 1: ΔACK, $\Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs} / \beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$ Note 2: CM=1 for $\beta_c / \beta_d = 12/15$, $\beta_{hs} / \beta_c = 24/15$. 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.^o Note 3: For subtest 2 the β_c / β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$^o							

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

Settings of required H-Set 1 QPSK acc. to 3GPP 34.121

Parameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI"s
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

HSDPA UE category

HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter-TTI Interval	Maximum HS-DSCH Transport Block Bits/HS-DSCH TTI	Total Soft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600
16	15	1	27952	345600

4. HSUPA

SAR for Body exposure configurations is measured according to the “Body SAR Measurements” procedures of 3G device. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

Per KDB941225 D01, the 3G SAR test reduction procedures is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures for the highest reported body exposure SAR configuration in 12.2 kbps RMC.

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSDPA should be configured according to the values indicated below as well as other applicable procedures described in the “WCDMA Handset” and “Release 5 HSDPA Data Device” sections of 3G device.

Subtests for WCDMA Release 6 HSUPA

Sub-test ¹	β_c ²	β_d ²	β_d (SF) ²	β_c/β_d ²	β_{hs} ¹	β_{ec} ²	β_{ed} ²	β_{ec} (SF) ²	β_{ed} (code) ²	CM ² (dB) ²	MP R ² (dB) ²	AG ² (4) Index ²	E-TFC I ²
1 ²	11/15 ⁽³⁾	15/15 ⁽³⁾	64 ²	11/15 ⁽³⁾	22/15 ²	209/225 ²	1039/225 ²	4 ²	1 ²	1.0 ²	0.0 ²	20 ²	75 ²
2 ²	6/15 ²	15/15 ²	64 ²	6/15 ²	12/15 ²	12/15 ²	94/75 ²	4 ²	1 ²	3.0 ²	2.0 ²	12 ²	67 ²
3 ²	15/15 ²	9/15 ²	64 ²	15/9 ²	30/15 ²	30/15 ²	$\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$	4 ²	2 ²	2.0 ²	1.0 ²	15 ²	92 ²
4 ²	2/15 ²	15/15 ²	64 ²	2/15 ²	4/15 ²	2/15 ²	56/75 ²	4 ²	1 ²	3.0 ²	2.0 ²	17 ²	71 ²
5 ²	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64 ²	15/15 ⁽⁴⁾	30/15 ²	24/15 ²	134/15 ²	4 ²	1 ²	1.0 ²	0.0 ²	21 ²	81 ²
Note 1: ΔACK, $\Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$ Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference² Note 3 : For subtest 1 the β_c/β_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 $\beta_c = 10/15$ and $\beta_d = 15/15$² Note 4 : For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$² Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g² Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.²													

HSUPA UE category

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	10	2SF2&2SF4	11484	5.76
	4	4	2		20000	2.00
7 (No DPDCH)	4	8	2	2SF2&2SF4	22996	?
	4	4	10		20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM. (TS25.306-7.3.0).

5. DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel.5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode.

Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a Second serving HS-DSCH cell are required to perform the power measurement and for the results to be acceptable.

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0
Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	dB	-3.1

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

The measurements were performed with a Fixed Reference Channel (FRC) H-Set 12 with QPSK

Parameter	Value
Nominal average inf. bit rate	60 kbit/s
Inter-TTI Distance	1 TTI's
Number of HARQ Processes	6 Processes
Information Bit Payload	120 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	960 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	3200 SMLs
Coding Rate	0.15
Number of Physical Channel Codes	1

Note:

1.The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table above.

2.Maximum number of transmission is limited to 1,i.e.,retransmission is not allowed. The redundancy and constellation version 0 shall be used.

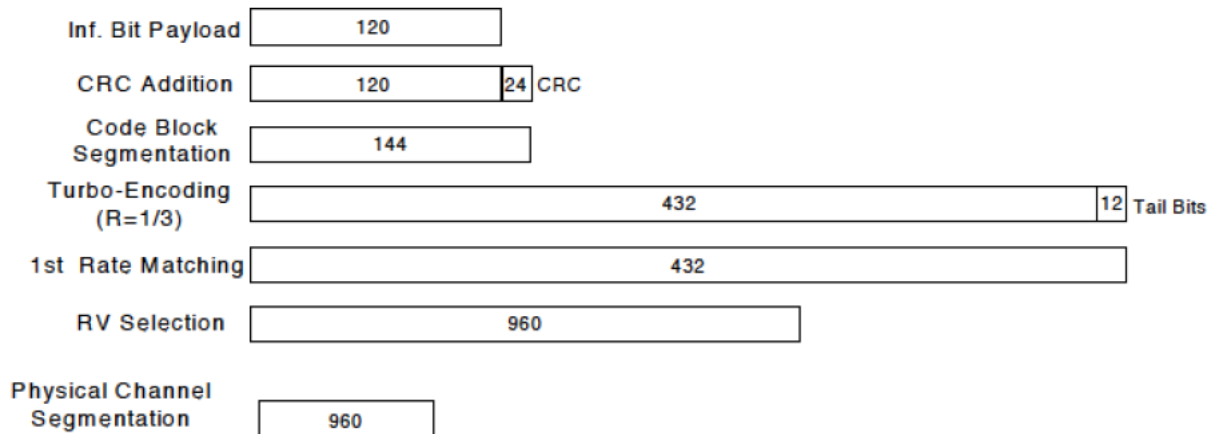


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 5 procedures. A summary of subtest settings are illustrated below:

Sub-test ^o	β_c ^o	β_d ^o	β_d (SF) ^o	β_c/β_d ^o	$\beta_{hs}(1)$ ^o	CM(dB)(2) ^o	MPR (dB) ^o
1 ^o	2/15 ^o	15/15 ^o	64 ^o	2/15 ^o	4/15 ^o	0.0 ^o	0 ^o
2 ^o	12/15(3) ^o	15/15(3) ^o	64 ^o	12/15(3) ^o	24/15 ^o	1.0 ^o	0 ^o
3 ^o	15/15 ^o	8/15 ^o	64 ^o	15/8 ^o	30/15 ^o	1.5 ^o	0.5 ^o
4 ^o	15/15 ^o	4/15 ^o	64 ^o	15/4 ^o	30/15 ^o	1.5 ^o	0.5 ^o

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI=8$ $A_{hs}=\beta_{hs}/\beta_c=30/15$ $\beta_{hs}=30/15 * \beta_c$

Note 2: CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$. 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 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c=11/15$ and $\beta_d=15/15$

Up commands are set continuously to set the UE to Max power.

6. HSPA+

An E-DCH call is set up according to TS 34.108 [3] 7.3.9 with the following exceptions in the RADIO BEARER SETUP messages. These exceptions allow the beta values to be set according to table C.11.1.4 and each UL physical channel to be at constant power at the start of the measurement. RF parameters are set up according to table E.5.A.1. Settings for the serving cell are defined in table 5.2E.4. Uplink SRB for DCCH mapped on E-DCH and downlink SRB for DCCH on DCH. E-DCH is configured with 2ms TTI.

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	β_c (Note 3)	β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105
Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0). Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default. Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value. Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signaled to use the extrapolation algorithm.											

Note:

1. The Dual Carriers transmission support HSDPA and HSUPA physical channels.
2. The Dual Carriers belong to the same Node and are on adjacent carriers.
3. The Dual Carriers do not support MIMO to serve UEs configured for dual cell operation.
4. The Dual Carriers operate in the same frequency band.
5. The device doesn't support the modulation of 16QAM in uplink but 64QAM in downlink for DC-HSDPA mode.
6. The device doesn't support carrier aggregation for it just can operate in Release 8.

5.2.3 LTE TEST CONFIGURATION

SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices. The CMW500 Wide Band Radio Communication Tester was used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR test were performed with the same number of RB and RB offsets transmitting on all TTI frames (Maximum TTI).

1. Spectrum Plots for RB configurations

A properly configured base station simulator was used for LTE output power measurements and SAR testing. Therefore, spectrum plots for RB configurations were not required to be included in this report.

2. MPR

When MPR is implemented permanently within the UE, regardless of network requirements, only those RB configurations allowed by 3GPP for the channel bandwidth and modulation. Combinations may be tested with MPR active. Configurations with RB allocations less than the RB thresholds required by 3GPP must be tested without MPR.

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 6.2.3-1 of the 3GPP TS36.101:

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

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

3. A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by using Network Signalling Value of "NS_01" on the base station simulator.

4. LTE procedures for SAR testing

A) Largest channel bandwidth standalone SAR test requirements

i) QPSK with 1 RB allocation

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

ii) QPSK with 50% RB allocation

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

iii) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in i) and ii) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

iv) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

B) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

LTE (TDD) Test Configuration

According to KDB 941225 D05 SAR for LTE Devices V02r05, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

TDD LTE B38/41 supports 3GPP TS 36 for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

TDD LTE B38/41 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Figure 4.2-1: Frame structure type 2

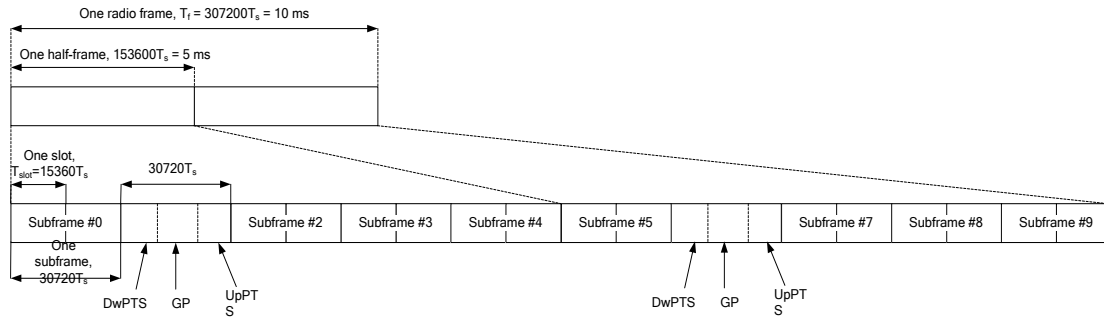


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

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

Table 4.2-2: Uplink-downlink configurations

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

According to Figure 4.2-1, one radio frame is configured by 10 subframes, which consist of Uplink-subframe, Downlink-subframe and Special subframe. For TDD-LTE, the Duty Cycle should be calculated on Uplink-subframes and Special subframes, due to Special subframe containing both Uplink transmissions. So for one radio frame, Duty Cycle can be calculated with formula as below. The count of Uplink subframes are according to Table 4.2-2:

$$\text{Duty cycle} = (30720T_s \cdot \text{Ups} + \text{Uplink Component} \cdot \text{Specials}) / (307200T_s)$$

About the uplink component of Special subframes, we can figure out by Table 4.2-1:

$$\text{Uplink Component} = \text{UpPTS}$$

In conclusion, for the TDD LTE B38/41, Duty Cycle can be calculated with formula as below. All these sets are ok when we test, or we can set as below.

$$\text{Duty cycle} = [(30720T_s \cdot \text{Ups}) + \text{UpPTS} \cdot \text{Specials}] / (307200T_s)$$

And we can get different Duty cycles under different configurations:

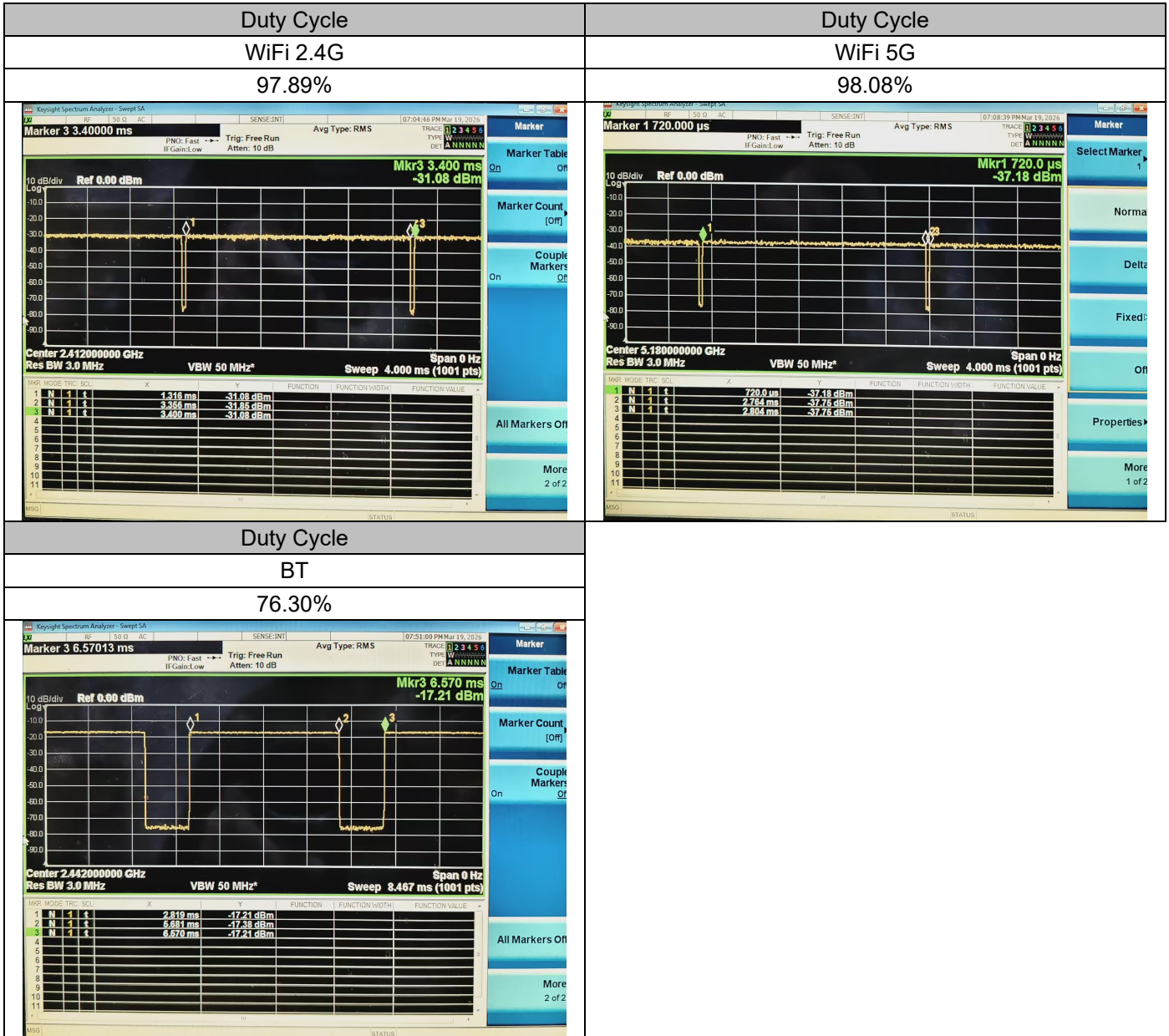
Uplink-downlink configuration	Subframe number			Configuration of special subframe							
				Normal cyclic prefix in downlink				Extended cyclic prefix in downlink			
				Normal cyclic prefix in uplink		Extended cyclic prefix in uplink		Normal cyclic prefix in uplink		Extended cyclic prefix in uplink	
	D	S	U	configuration 0-4	configuration 5-9	configuration 0-4	configuration 5-9	configuration 0-3	configuration 4-7	configuration 0-3	configuration 4-7
0	2	2	6	61.43%	62.85%	61.67%	63.33%	61.43%	62.85%	61.67%	63.33%
1	4	2	4	41.43%	42.85%	41.67%	43.33%	41.43%	42.85%	41.67%	43.33%
2	6	2	2	21.43%	22.85%	21.67%	23.33%	21.43%	22.85%	21.67%	23.33%
3	6	1	3	30.71%	31.43%	30.83%	31.67%	30.71%	31.43%	30.83%	31.67%
4	7	1	2	20.71%	21.43%	20.83%	21.67%	20.71%	21.43%	20.83%	21.67%
5	8	1	1	10.71%	11.43%	10.83%	11.67%	10.71%	11.43%	10.83%	11.67%
6	3	2	5	51.43%	52.85%	51.67%	53.33%	51.43%	52.85%	51.67%	53.33%

For TDD LTE, SAR should be tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7 for Frame structure type 2.

5.2.4 WIFI TEST CONFIGURATION

For BT / WLAN SAR testing, BT/ WLAN engineering testing software installed on the DUT can provide continuous transmitting RF signal.

For WiFi SAR testing, a communication link is set up with the test mode software for WiFi mode test. During the test, at the each test frequency channel, the EUT is operated at the RF continuous emission mode. The RF signal utilized in SAR measurement has 100% duty cycle and its crest factor is 1. The test procedures in KDB 248227 D01 are applied.



5.2.4.1 2.4G SAR Test Requirements

802.11b DSSS SAR Test Requirements

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

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

2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

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

- 1) When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

SAR Test Requirements for OFDM configurations

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.

5.2.4.2 5G SAR Test Requirements

✧ U-NII-1 and U-NII-2A Band

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.

✧ U-NII-2C, U-NII-3 Bands

The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification.

Unless band gap channels are permanently disabled, they must be considered for SAR testing.

To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels.¹¹ When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

5.2.4.3 OFDM transmission mode and SAR test channel selection

For the 2.4GHz and 5GHz bands, when the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations (for example 802.11a, 802.11n and 802.11ac, or 802.11g and 802.11n, with the same channel bandwidth, modulation, and data rate, etc.), the lower order 802.11 mode (i.e. 802.11a then 802.11n and 802.11ac, or 802.11g then 802.11n) is used for SAR measurement. When the maximum output power is the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

5.2.4.4 Initial test configuration procedure

For OFDM, in both 2.4GHz and 5GHz bands, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, and lowest data rate. If the average RF output powers of the highest identical transmission modes are within 0.25 dB of each other, mid channel of the transmission mode with highest average RF output powers is the initial test channel. Otherwise, the channel of the transmission mode with the highest average RF output power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurement.

5.3 TEST POSITION

5.3.1 HEAD TEST CONFIGURATION

Measurements were made in “cheek” and “tilt” positions on both the left hand and right hand sides of the phantom.

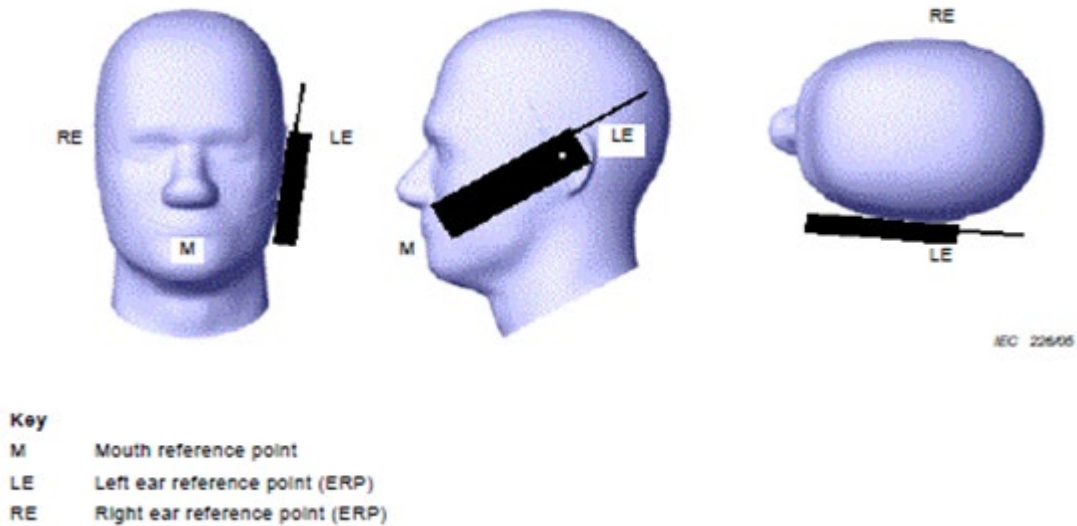


Figure 1 Cheek position of the wireless device on the left side of SAM

Note1: Cheek position of the wireless device on Right side of SAM also is similar to the left side represented above.

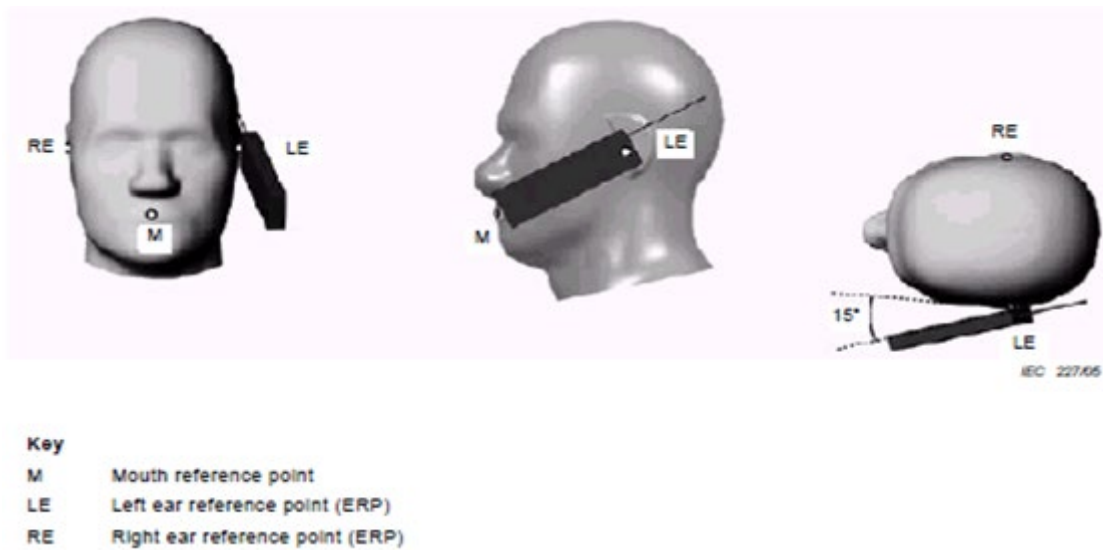


Figure 2 Tilt position of the wireless device on the left side of SAM

Note2: Tilt position of the wireless device on Right side of SAM also is similar to the left side represented above.

5.3.2 BODY-WORN TEST CONFIGURATION

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. The distance between the device and the phantom was kept 15mm.

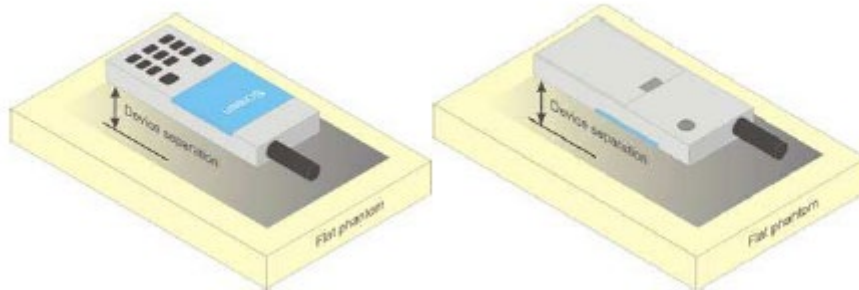


Figure 3 Test positions for body-worn device

5.3.3 HOTSPOT TEST CONFIGURATION

Per FCC KDB 941225D06, the SAR test separation distance for hotspot mode is determined according to device form factor. When the overall length and width of a device is $> 9\text{cm} \times 5\text{cm}$, a test separation distance of 10mm is required for hotspot mode SAR measurements. A test separation distance of 5mm or less is required for smaller devices. Hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25mm from that surface or edge; for the data modes, wireless technologies and frequency bands supporting hotspot mode. The SAR results are used to determine simultaneous transmission SAR test exclusion for hotspot mode; otherwise, simultaneous transmission SAR measurement is required.

5.3.4 PRODUCT SPECIFIC 10-G SAR TEST CONFIGURATION

Per KDB 648474 D04, for smart phones with a display diagonal dimension $> 15.0\text{cm}$ or an overall diagonal dimension $> 16.0\text{cm}$ that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as “Phablet”. The UMPC mini-tablets procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at $\leq 25\text{mm}$ from that surface or edge, in direct contact with a flat phantom, for product specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, product specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR $> 1.2\text{W/kg}$; when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

The length of the overall diagonal dimension of the EUT is $173\text{mm} > 160\text{mm}$.

The location of the antenna inside EUT is as below:

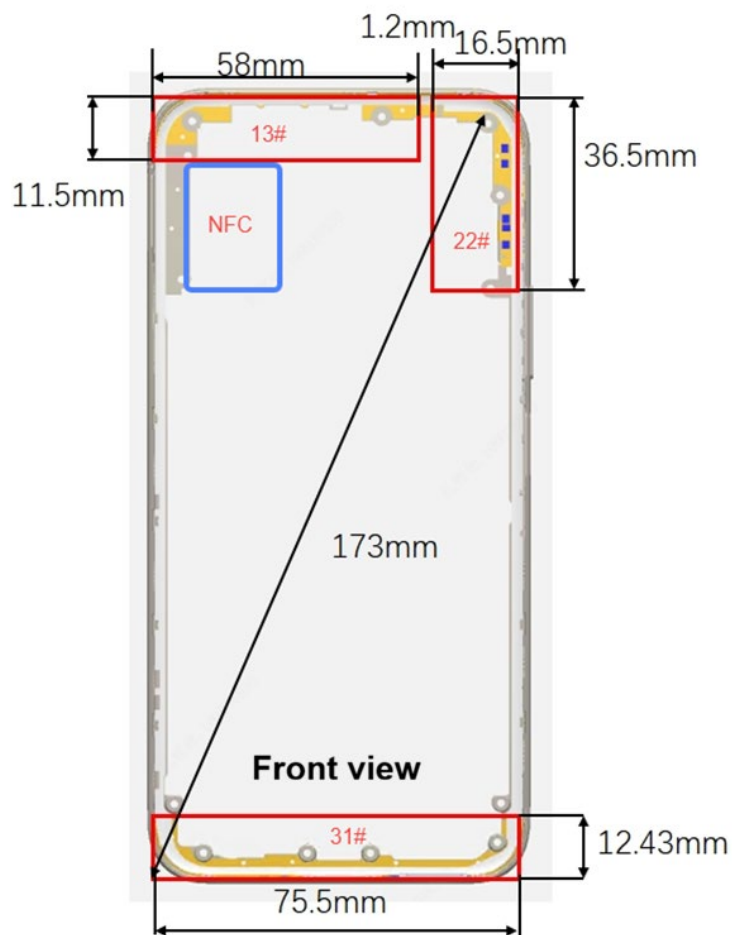


Figure: The location of the antennas

5.4 RECEIVER DETECTION MECHANISM SPECIFICATION

DSI	Test conditions	Test scenario	Antenna	Test surface
DSI1	Receiver on	Head Standalone	ALL ANT	Head
DSI2	Receiver off	Body Standalone	ALL ANT	Body
DSI3	Receiver on+WLAN	Head Simultaneous	ALL ANT	Head
DSI4	Receiver off+WLAN	Body/Hotspot Simultaneous	ALL ANT	Body/Hotspot

Power level	Power scenario	WWAN_Ant 31(dBm)													
		GSM 850	GSM 1900	WCDMA B2	WCDMA B4	WCDMA B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B13	LTE B26	LTE B38	LTE B41	LTE B66
DSI1	Head (Receiver on) Standalone	34	31.5	25	25	25	24.5	24.5	25	24	25	25	24.5	24.4	24.5
DSI2	Body (Receiver off) Standalone	34	30.5	22	22.5	25	22	22.5	25	22	25	25	24.5	24.4	22
DSI3	Head (Receiver on+WLAN) Simultaneous	34	31.5	25	25	25	24.5	24.5	25	24	25	25	24.5	24.4	24.5
DSI4	Body/Hotspot (Receiver off+WLAN) Simultaneous	34	28.5	20	20	24	20	20.5	24	20	25	25	23.5	23.4	19.5

Power level	Power scenario	WWAN_Ant 13(dBm)											
		WCDMA B2	WCDMA B4	WCDMA B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B13	LTE B26	LTE B38	LTE B41	LTE B66
DSI2	Body (Receiver off) Standalone	21	22	25	20.5	21.5	25	18.5	25	25	20	19.9	22
DSI4	Body/Hotspot (Receiver off+WLAN) Simultaneous	18.5	20	23	18.5	19.5	25	16.5	25	25	18	17.9	20

Power level	Power scenario	WiFi 2.4G(dBm)							
		802.11 b	802.11 g	802.11 n20	802.11 n40	802.11 ac20	802.11 ac40	BT	LE
Level 1	Head (Receiver on) Standalone	19	19	18	18	18	18	14	9
Level 2	Head (Receiver on) Simultaneous	18	18	18	18	18	18	14	9
Level 3	Body (Receiver off) Standalone	19.5	20	18	18	18	18	14	9
Level 4	Body (Receiver off) Simultaneous	19.5	20	18	18	18	18	14	9

Power level	Power scenario	WiFi 5G (dBm) UNII 1 (5.15-5.25GHz)						WiFi 5G (dBm) UNII 2A (5.25-5.35GHz)					
		802.11 a	802.11 n20	802.11 n40	802.11 ac20	802.11 ac40	802.11 ac80	802.11 a	802.11 n20	802.11 n40	802.11 ac20	802.11 ac40	802.11 ac80
Level 1	Head (Receiver on) Standalone	15	15	15	15	15	12.5	15	15	15	15	15	11
Level 2	Head (Receiver on) Simultaneous	14	14	14	14	14	12.5	14	14	14	14	14	11
Level 3	Body (Receiver off) Standalone	19.5	16	16	16	16	12.5	19.5	19	19	19	19	11
Level 4	Body/Hotspot (Receiver off) Simultaneous	16	16	16	16	16	12.5	16	16	16	16	16	11

Power level	Power scenario	WiFi 5G (dBm) UNII 2C (5.47-5.725GHz)						WiFi 5G (dBm) UNII 3 (5.725-5.85GHz)					
		802.11 a	802.11 n20	802.11 n40	802.11 ac20	802.11 ac40	802.11 ac80	802.11 a	802.11 n20	802.11 n40	802.11 ac20	802.11 ac40	802.11 ac80
Level 1	Head (Receiver on) Standalone	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
Level 2	Head (Receiver on) Simultaneous	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
Level 3	Body (Receiver off) Standalone	18.5	18.5	18.5	18.5	18.5	18	18.5	18.5	18.5	18.5	18.5	18
Level 4	Body/Hotspot (Receiver off) Simultaneous	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5



6. TEST RESULT

6.1 CONDUCTED POWER RESULTS

The conducted power measurement result please refer to Appendix E.

6.2 SAR TEST RESULTS

General Notes:

- 1) Per KDB447498 D01, all measurement SAR results are scaled to the maximum tune-up tolerance limit to demonstrate compliant.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is: ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz. When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.
- 3) Per KDB865664 D01, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg; if the deviation among the repeated measurement is $\leq 20\%$, and the measured SAR < 1.45 W/kg, only one repeated measurement is required.
- 4) Per KDB941225 D06, the DUT Dimension is bigger than 9 cm x 5 cm, so 10mm is chosen as the test separation distance for Hotspot mode. When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.
- 5) Per KDB648474 D04, SAR is evaluated without a headset connected to the device. When the standalone reported body-worn SAR is ≤ 1.2 W/kg, no additional SAR evaluations using a headset are required.
- 6) Per KDB865664 D02, SAR plot is only required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination; Plots are also required when the measured SAR is > 1.5 W/kg, or > 7.0 W/kg for occupational exposure. The published RF exposure KDB procedures may require additional plots; for example, to support SAR to peak location separation ratio test exclusion and/or volume scan post-processing.

GSM Notes:

- 1) Per KDB648474 D04, body-worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.
- 2) Per KDB941225 D01, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

UMTS Notes:

Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

LTE notes:

- 1) The LTE test configurations are determined according to KDB941225 D05 SAR for LTE Devices. The general test procedures used for SAR testing can be found in Section 7.1.3.
- 2) A-MPR was disabled for all SAR test by setting NS_01 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

WLAN Notes:

- 1) For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions. Otherwise, SAR is evaluated at the subsequent highest peak SAR position until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
- 2) Justification for test configurations for WLAN per KDB Publication 248227 for 2.4GHz WIFI single transmission chain operations, the highest measured maximum output power Channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4GHz 802.11g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.1.5 for more information.
- 3) Justification for test configurations for WLAN per KDB Publication 248227 for 5GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed power. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2W/kg. See Section 7.1.5 for more information.

6.2.1 SAR MEASUREMENT RESULT OF HEAD

This configuration supports the earpiece locking function. When the earpiece is turned on, the antenna is automatically locked at ANT 31#.

1. Head SAR test results of GSM

DSI1

Test No.	Band	Mode	Channel	Test Position	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
G01	GSM 850	GSM	190	Right Cheek	Ant 31	1	34.00	32.50	0.12	0.153	0.115	0.216
G02	GSM 850	GSM	190	Right Tilted	Ant 31	1	34.00	32.50	-0.12	0.083	0.065	0.117
G03	GSM 850	GSM	190	Left Cheek	Ant 31	1	34.00	32.50	0.13	0.178	0.135	0.251
G04	GSM 850	GSM	190	Left Tilted	Ant 31	1	34.00	32.50	-0.03	0.108	0.083	0.153
G05	GSM 850	GSM	128	Left Cheek	Ant 31	1	34.00	32.36	-0.05	0.122	0.092	0.178
G06	GSM 850	GSM	251	Left Cheek	Ant 31	1	34.00	32.42	0.04	0.236	0.177	0.340
G07	GSM 850	GSM	251	Left Cheek	Ant 31	2	34.00	32.42	0.07	0.222	0.167	0.319
G09	GSM 1900	GSM	661	Right Cheek	Ant 31	1	31.50	30.61	-0.15	0.058	0.038	0.071
G10	GSM 1900	GSM	661	Right Tilted	Ant 31	1	31.50	30.61	0.1	0.042	0.026	0.052
G11	GSM 1900	GSM	661	Left Cheek	Ant 31	1	31.50	30.61	-0.06	0.080	0.049	0.098
G12	GSM 1900	GSM	661	Left Tilted	Ant 31	1	31.50	30.61	0.1	0.042	0.025	0.052
G13	GSM 1900	GSM	512	Left Cheek	Ant 31	1	31.50	30.51	0.18	0.082	0.050	0.103
G14	GSM 1900	GSM	810	Left Cheek	Ant 31	1	31.50	30.32	-0.04	0.074	0.045	0.097
G15	GSM 1900	GSM	512	Left Cheek	Ant 31	2	31.50	30.51	0.06	0.086	0.054	0.108

Note: The value with boldface is the maximum SAR Value of each test band.

2. Head SAR test results of UMTS

DSI1

Test No.	Band	Mode	Channel	Test Position	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
U01	UMTS B2	RMC12.2K	9400	Right Cheek	Ant 31	1	25.00	23.85	-0.03	0.095	0.063	0.124
U02	UMTS B2	RMC12.2K	9400	Right Tilted	Ant 31	1	25.00	23.85	0.12	0.077	0.05	0.100
U03	UMTS B2	RMC12.2K	9400	Left Cheek	Ant 31	1	25.00	23.85	-0.15	0.147	0.092	0.192
U04	UMTS B2	RMC12.2K	9400	Left Tilted	Ant 31	1	25.00	23.85	0.02	0.077	0.045	0.100
U05	UMTS B2	RMC12.2K	9262	Left Cheek	Ant 31	1	25.00	23.76	0.05	0.155	0.096	0.206
U06	UMTS B2	RMC12.2K	9538	Left Cheek	Ant 31	1	25.00	23.77	-0.19	0.130	0.081	0.173
U07	UMTS B2	RMC12.2K	9262	Left Cheek	Ant 31	2	25.00	23.76	0.14	0.149	0.094	0.198
U09	UMTS B4	RMC12.2K	1413	Right Cheek	Ant 31	1	25.00	23.93	-0.04	0.057	0.023	0.057
U10	UMTS B4	RMC12.2K	1413	Right Tilted	Ant 31	1	25.00	23.93	0.19	0.053	0.019	0.053
U11	UMTS B4	RMC12.2K	1413	Left Cheek	Ant 31	1	25.00	23.93	0	0.098	0.063	0.098
U12	UMTS B4	RMC12.2K	1413	Left Tilted	Ant 31	1	25.00	23.93	-0.1	0.012	0.006	0.012
U13	UMTS B4	RMC12.2K	1312	Left Cheek	Ant 31	1	25.00	23.91	-0.07	0.094	0.037	0.094
U14	UMTS B4	RMC12.2K	1513	Left Cheek	Ant 31	1	25.00	23.86	-0.19	0.096	0.038	0.096
U15	UMTS B4	RMC12.2K	1413	Left Cheek	Ant 31	2	25.00	23.93	0.07	0.094	0.037	0.094
U17	UMTS B5	RMC12.2K	4182	Right Cheek	Ant 31	1	25.00	23.87	0.17	0.125	0.091	0.125
U18	UMTS B5	RMC12.2K	4182	Right Tilted	Ant 31	1	25.00	23.87	-0.1	0.154	0.122	0.154
U19	UMTS B5	RMC12.2K	4182	Left Cheek	Ant 31	1	25.00	23.87	0.07	0.214	0.163	0.214
U20	UMTS B5	RMC12.2K	4182	Left Tilted	Ant 31	1	25.00	23.87	-0.04	0.127	0.104	0.127
U21	UMTS B5	RMC12.2K	4132	Left Cheek	Ant 31	1	25.00	23.82	-0.09	0.189	0.142	0.189
U22	UMTS B5	RMC12.2K	4233	Left Cheek	Ant 31	1	25.00	23.70	0.09	0.229	0.172	0.229
U23	UMTS B5	RMC12.2K	4233	Left Cheek	Ant 31	2	25.00	23.70	-0.12	0.22	0.167	0.220

Note: The value with boldface is the maximum SAR Value of each test band.

3. Head SAR test results of LTE

DSI1

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
L01	LTE B2	QPSK20M	18700	1	0	Right Cheek	Ant 31	1	24.50	23.93	-0.06	0.079	0.048	0.090
L02	LTE B2	QPSK20M	18700	1	0	Right Tilted	Ant 31	1	24.50	23.93	0.16	0.055	0.033	0.063
L03	LTE B2	QPSK20M	18700	1	0	Left Cheek	Ant 31	1	24.50	23.93	0.09	0.123	0.075	0.140
L04	LTE B2	QPSK20M	18700	1	0	Left Tilted	Ant 31	1	24.50	23.93	-0.04	0.04	0.022	0.046
L05	LTE B2	QPSK20M	18900	50	0	Right Cheek	Ant 31	1	23.50	22.80	-0.02	0.062	0.038	0.073
L06	LTE B2	QPSK20M	18900	50	0	Right Tilted	Ant 31	1	23.50	22.80	0.08	0.048	0.030	0.056
L07	LTE B2	QPSK20M	18900	50	0	Left Cheek	Ant 31	1	23.50	22.80	0.17	0.091	0.056	0.107
L08	LTE B2	QPSK20M	18900	50	0	Left Tilted	Ant 31	1	23.50	22.80	-0.03	0.046	0.026	0.054
L09	LTE B2	QPSK20M	18900	1	0	Left Cheek	Ant 31	1	24.50	23.69	-0.1	0.113	0.069	0.136
L10	LTE B2	QPSK20M	19100	1	50	Left Cheek	Ant 31	1	24.50	23.65	-0.06	0.089	0.055	0.108
L11	LTE B2	QPSK20M	18700	50	25	Left Cheek	Ant 31	1	23.50	22.78	0.03	0.083	0.050	0.098
L12	LTE B2	QPSK20M	19100	50	25	Left Cheek	Ant 31	1	23.50	22.50	0.15	0.078	0.043	0.098
L13	LTE B2	QPSK20M	18700	1	0	Left Cheek	Ant 31	2	24.50	23.93	0.03	0.114	0.070	0.130
L14	LTE B4	QPSK20M	20300	1	0	Right Cheek	Ant 31	1	24.50	23.91	0.02	0.05	0.031	0.057
L15	LTE B4	QPSK20M	20300	1	0	Right Tilted	Ant 31	1	24.50	23.91	0.15	0.033	0.017	0.038
L16	LTE B4	QPSK20M	20300	1	0	Left Cheek	Ant 31	1	24.50	23.91	0.06	0.082	0.052	0.094
L17	LTE B4	QPSK20M	20300	1	0	Left Tilted	Ant 31	1	24.50	23.91	-0.15	0.049	0.026	0.056
L18	LTE B4	QPSK20M	20300	50	0	Right Cheek	Ant 31	1	23.50	22.62	-0.01	0.041	0.025	0.050
L19	LTE B4	QPSK20M	20300	50	0	Right Tilted	Ant 31	1	23.50	22.62	0	0.040	0.021	0.049
L20	LTE B4	QPSK20M	20300	50	0	Left Cheek	Ant 31	1	23.50	22.62	0.14	0.066	0.04	0.081
L21	LTE B4	QPSK20M	20300	50	0	Left Tilted	Ant 31	1	23.50	22.62	-0.19	0.041	0.022	0.050
L22	LTE B4	QPSK20M	20050	1	50	Left Cheek	Ant 31	1	24.50	23.79	-0.02	0.069	0.042	0.081
L23	LTE B4	QPSK20M	20175	1	0	Left Cheek	Ant 31	1	24.50	23.76	-0.08	0.073	0.045	0.087
L24	LTE B4	QPSK20M	20050	50	50	Left Cheek	Ant 31	1	23.50	22.48	-0.12	0.058	0.036	0.073
L25	LTE B4	QPSK20M	20175	50	0	Left Cheek	Ant 31	1	23.50	22.48	-0.13	0.064	0.039	0.081
L26	LTE B4	QPSK20M	20300	1	0	Left Cheek	Ant 31	2	24.50	23.91	-0.13	0.079	0.048	0.090
L27	LTE B5	QPSK10M	20525	1	24	Right Cheek	Ant 31	1	25.00	24.57	0.13	0.115	0.084	0.127
L28	LTE B5	QPSK10M	20525	1	24	Right Tilted	Ant 31	1	25.00	24.57	0.06	0.069	0.054	0.076
L29	LTE B5	QPSK10M	20525	1	24	Left Cheek	Ant 31	1	25.00	24.57	-0.13	0.145	0.108	0.160
L30	LTE B5	QPSK10M	20525	1	24	Left Tilted	Ant 31	1	25.00	24.57	-0.01	0.095	0.073	0.105
L31	LTE B5	QPSK10M	20525	25	0	Right Cheek	Ant 31	1	24.00	23.09	0.13	0.104	0.078	0.129
L32	LTE B5	QPSK10M	20525	25	0	Right Tilted	Ant 31	1	24.00	23.09	0.07	0.057	0.045	0.070
L33	LTE B5	QPSK10M	20525	25	0	Left Cheek	Ant 31	1	24.00	23.09	-0.09	0.117	0.086	0.144
L34	LTE B5	QPSK10M	20525	25	0	Left Tilted	Ant 31	1	24.00	23.09	0.01	0.076	0.058	0.094
L35	LTE B5	QPSK10M	20450	1	24	Left Cheek	Ant 31	1	25.00	24.23	-0.19	0.137	0.102	0.164
L36	LTE B5	QPSK10M	20600	1	24	Left Cheek	Ant 31	1	25.00	24.53	0.04	0.166	0.123	0.185
L37	LTE B5	QPSK10M	20450	25	12	Left Cheek	Ant 31	1	24.00	22.98	0.06	0.104	0.078	0.132
L38	LTE B5	QPSK10M	20600	25	0	Left Cheek	Ant 31	1	24.00	22.94	0.02	0.131	0.098	0.167
L39	LTE B5	QPSK10M	20600	1	24	Left Cheek	Ant 31	2	25.00	24.53	0.19	0.163	0.119	0.182

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
L40	LTE B7	QPSK20M	21100	1	50	Right Cheek	Ant 31	1	24.00	23.36	-0.17	0.246	0.132	0.285
L41	LTE B7	QPSK20M	21100	1	50	Right Tilted	Ant 31	1	24.00	23.36	0.14	0.145	0.075	0.168
L42	LTE B7	QPSK20M	21100	1	50	Left Cheek	Ant 31	1	24.00	23.36	0.15	0.129	0.071	0.149
L43	LTE B7	QPSK20M	21100	1	50	Left Tilted	Ant 31	1	24.00	23.36	0.17	0.107	0.054	0.124
L44	LTE B7	QPSK20M	21100	50	0	Right Cheek	Ant 31	1	23.00	22.24	-0.05	0.201	0.108	0.239
L45	LTE B7	QPSK20M	21100	50	0	Right Tilted	Ant 31	1	23.00	22.24	-0.14	0.116	0.059	0.138
L46	LTE B7	QPSK20M	21100	50	0	Left Cheek	Ant 31	1	23.00	22.24	-0.18	0.113	0.062	0.135
L47	LTE B7	QPSK20M	21100	50	0	Left Tilted	Ant 31	1	23.00	22.24	0.14	0.087	0.044	0.104
L48	LTE B7	QPSK20M	20850	1	50	Right Cheek	Ant 31	1	24.00	23.22	0.07	0.249	0.135	0.298
L49	LTE B7	QPSK20M	21350	1	0	Right Cheek	Ant 31	1	24.00	22.98	-0.14	0.234	0.131	0.296
L50	LTE B7	QPSK20M	20850	50	25	Right Cheek	Ant 31	1	23.00	21.87	0.14	0.191	0.104	0.248
L51	LTE B7	QPSK20M	21350	50	0	Right Cheek	Ant 31	1	23.00	21.94	-0.13	0.198	0.106	0.253
L52	LTE B7	QPSK20M	20850	1	50	Right Cheek	Ant 31	2	24.00	23.22	0.03	0.224	0.127	0.268
L53	LTE B13	QPSK10M	23230	1	24	Right Cheek	Ant 31	1	25.00	24.09	-0.02	0.055	0.042	0.068
L54	LTE B13	QPSK10M	23230	1	24	Right Tilted	Ant 31	1	25.00	24.09	0.19	0.029	0.021	0.036
L55	LTE B13	QPSK10M	23230	1	24	Left Cheek	Ant 31	1	25.00	24.09	0.04	0.057	0.043	0.070
L56	LTE B13	QPSK10M	23230	1	24	Left Tilted	Ant 31	1	25.00	24.09	0.05	0.027	0.019	0.033
L57	LTE B13	QPSK10M	23230	25	12	Right Cheek	Ant 31	1	24.00	22.85	0.19	0.034	0.026	0.044
L58	LTE B13	QPSK10M	23230	25	12	Right Tilted	Ant 31	1	24.00	22.85	0.06	0.022	0.015	0.029
L59	LTE B13	QPSK10M	23230	25	12	Left Cheek	Ant 31	1	24.00	22.85	0.05	0.044	0.033	0.057
L60	LTE B13	QPSK10M	23230	25	12	Left Tilted	Ant 31	1	24.00	22.85	0.09	0.031	0.021	0.040
L61	LTE B13	QPSK10M	23230	1	24	Left Cheek	Ant 31	2	25.00	24.09	0.19	0.051	0.039	0.063
L62	LTE B26	QPSK15M	26765	1	0	Right Cheek	Ant 31	1	25.00	24.28	0	0.143	0.108	0.169
L63	LTE B26	QPSK15M	26765	1	0	Right Tilted	Ant 31	1	25.00	24.28	0.11	0.08	0.065	0.094
L64	LTE B26	QPSK15M	26765	1	0	Left Cheek	Ant 31	1	25.00	24.28	0.02	0.154	0.119	0.182
L65	LTE B26	QPSK15M	26765	1	0	Left Tilted	Ant 31	1	25.00	24.28	0.12	0.101	0.08	0.119
L66	LTE B26	QPSK15M	26865	36	19	Right Cheek	Ant 31	1	24.00	23.04	0.11	0.143	0.107	0.178
L67	LTE B26	QPSK15M	26865	36	19	Right Tilted	Ant 31	1	24.00	23.04	0.15	0.086	0.069	0.107
L68	LTE B26	QPSK15M	26865	36	19	Left Cheek	Ant 31	1	24.00	23.04	-0.19	0.163	0.126	0.203
L69	LTE B26	QPSK15M	26865	36	19	Left Tilted	Ant 31	1	24.00	23.04	-0.1	0.109	0.085	0.136
L70	LTE B26	QPSK15M	26865	1	37	Left Cheek	Ant 31	1	25.00	24.27	0.05	0.192	0.145	0.227
L71	LTE B26	QPSK15M	26965	1	0	Left Cheek	Ant 31	1	25.00	24.16	0.1	0.188	0.141	0.228
L72	LTE B26	QPSK15M	26765	36	39	Left Cheek	Ant 31	1	24.00	22.95	0.13	0.16	0.128	0.204
L73	LTE B26	QPSK15M	26965	36	19	Left Cheek	Ant 31	1	24.00	22.97	-0.02	0.178	0.137	0.226
L74	LTE B26	QPSK15M	26965	1	37	Left Cheek	Ant 31	2	25.00	24.27	-0.02	0.188	0.142	0.222
L75	LTE B38	QPSK20M	38000	1	50	Right Cheek	Ant 31	1	24.50	24.19	0.07	0.170	0.089	0.182
L76	LTE B38	QPSK20M	38000	1	50	Right Tilted	Ant 31	1	24.50	24.19	0.15	0.077	0.04	0.083
L77	LTE B38	QPSK20M	38000	1	50	Left Cheek	Ant 31	1	24.50	24.19	0.14	0.096	0.052	0.103
L78	LTE B38	QPSK20M	38000	1	50	Left Tilted	Ant 31	1	24.50	24.19	-0.16	0.067	0.035	0.072
L79	LTE B38	QPSK20M	38000	50	25	Right Cheek	Ant 31	1	23.50	22.98	0.11	0.136	0.072	0.153
L80	LTE B38	QPSK20M	38000	50	25	Right Tilted	Ant 31	1	23.50	22.98	0.1	0.057	0.03	0.064
L81	LTE B38	QPSK20M	38000	50	25	Left Cheek	Ant 31	1	23.50	22.98	-0.02	0.078	0.043	0.088
L82	LTE B38	QPSK20M	38000	50	25	Left Tilted	Ant 31	1	23.50	22.98	-0.18	0.050	0.026	0.056
L83	LTE B38	QPSK20M	37850	1	0	Right Cheek	Ant 31	1	24.50	23.73	-0.13	0.148	0.085	0.177
L84	LTE B38	QPSK20M	38150	1	50	Right Cheek	Ant 31	1	24.50	24.10	-0.1	0.144	0.07	0.158
L85	LTE B38	QPSK20M	37850	50	25	Right Cheek	Ant 31	1	23.50	22.73	-0.04	0.145	0.078	0.173
L86	LTE B38	QPSK20M	38150	50	0	Right Cheek	Ant 31	1	23.50	22.95	0.14	0.151	0.086	0.171
L87	LTE B38	QPSK20M	38000	1	0	Right Cheek	Ant 31	2	24.50	24.19	0.01	0.164	0.089	0.176

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
L101	LTE B41	QPSK20M	41490	1	0	Right Cheek	Ant 31	1	24.40	23.78	0.04	0.187	0.095	0.216
L102	LTE B41	QPSK20M	41490	1	0	Right Tilted	Ant 31	1	24.40	23.78	0.04	0.056	0.028	0.065
L103	LTE B41	QPSK20M	41490	1	0	Left Cheek	Ant 31	1	24.40	23.78	0.06	0.093	0.050	0.107
L104	LTE B41	QPSK20M	41490	1	0	Left Tilted	Ant 31	1	24.40	23.78	0.12	0.074	0.038	0.085
L105	LTE B41	QPSK20M	41490	50	0	Right Cheek	Ant 31	1	23.40	22.67	-0.03	0.151	0.078	0.179
L106	LTE B41	QPSK20M	41490	50	0	Right Tilted	Ant 31	1	23.40	22.67	-0.03	0.046	0.024	0.054
L107	LTE B41	QPSK20M	41490	50	0	Left Cheek	Ant 31	1	23.40	22.67	-0.12	0.080	0.043	0.095
L108	LTE B41	QPSK20M	41490	50	0	Left Tilted	Ant 31	1	23.40	22.67	-0.06	0.060	0.031	0.071
L109	LTE B41	QPSK20M	39750	1	50	Right Cheek	Ant 31	1	24.40	23.23	-0.06	0.136	0.074	0.178
L110	LTE B41	QPSK20M	40185	1	50	Right Cheek	Ant 31	1	24.40	23.41	0.13	0.130	0.070	0.163
L111	LTE B41	QPSK20M	41055	1	0	Right Cheek	Ant 31	1	24.40	23.21	-0.13	0.161	0.087	0.212
L112	LTE B41	QPSK20M	40620	1	50	Right Cheek	Ant 31	1	24.40	23.53	0.18	0.152	0.082	0.186
L113	LTE B41	QPSK20M	39750	50	50	Right Cheek	Ant 31	1	23.40	22.22	-0.15	0.106	0.058	0.139
L114	LTE B41	QPSK20M	40620	50	25	Right Cheek	Ant 31	1	23.40	22.51	0.01	0.111	0.060	0.136
L115	LTE B41	QPSK20M	41490	1	0	Right Cheek	Ant 31	2	24.40	23.78	-0.14	0.177	0.09	0.204
L116	LTE B66	QPSK20M	132072	1	50	Right Cheek	Ant 31	1	24.50	23.83	-0.09	0.043	0.028	0.050
L117	LTE B66	QPSK20M	132072	1	50	Right Tilted	Ant 31	1	24.50	23.83	0.19	0.037	0.020	0.043
L118	LTE B66	QPSK20M	132072	1	50	Left Cheek	Ant 31	1	24.50	23.83	-0.06	0.077	0.041	0.090
L119	LTE B66	QPSK20M	132072	1	50	Left Tilted	Ant 31	1	24.50	23.83	0.13	0.032	0.017	0.037
L120	LTE B66	QPSK20M	132322	50	25	Right Cheek	Ant 31	1	23.50	22.60	0.04	0.041	0.026	0.050
L121	LTE B66	QPSK20M	132322	50	25	Right Tilted	Ant 31	1	23.50	22.60	-0.15	0.034	0.018	0.042
L122	LTE B66	QPSK20M	132322	50	25	Left Cheek	Ant 31	1	23.50	22.60	-0.18	0.073	0.048	0.090
L123	LTE B66	QPSK20M	132322	50	25	Left Tilted	Ant 31	1	23.50	22.60	0.01	0.050	0.027	0.061
L124	LTE B66	QPSK20M	132322	1	0	Left Cheek	Ant 31	1	24.50	23.64	-0.06	0.098	0.063	0.119
L125	LTE B66	QPSK20M	132572	1	50	Left Cheek	Ant 31	1	24.50	23.72	0	0.109	0.069	0.130
L126	LTE B66	QPSK20M	132072	50	0	Left Cheek	Ant 31	1	23.50	22.59	0.07	0.062	0.04	0.076
L127	LTE B66	QPSK20M	132572	50	0	Left Cheek	Ant 31	1	23.50	22.51	-0.05	0.083	0.053	0.104
L128	LTE B66	QPSK20M	132572	1	50	Left Cheek	Ant 31	2	24.50	23.72	-0.08	0.101	0.06	0.121

Note: The value with boldface is the maximum SAR Value of each test band.

4. Head SAR test results of WiFi 2.4G

Level 1

Test No.	Band	Mode	Channel	Test Position	Data Rate	Duty Cycle (%)	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
W01	WiFi 2.4G	802.11b	11	Right Cheek	1M	97.89	19.00	18.45	0.02	0.369	0.190	0.428
W02	WiFi 2.4G	802.11b	11	Right Tilted	1M	97.89	19.00	18.45	0.11	0.531	0.230	0.616
W03	WiFi 2.4G	802.11b	11	Left Cheek	1M	97.89	19.00	18.45	-0.13	0.791	0.383	0.917
W04	WiFi 2.4G	802.11b	11	Left Tilted	1M	97.89	19.00	18.45	0.02	0.623	0.294	0.722
W05	WiFi 2.4G	802.11b	1	Left Cheek	1M	97.89	19.00	18.16	-0.09	0.733	0.358	0.909
W06	WiFi 2.4G	802.11b	6	Left Cheek	1M	97.89	19.00	18.08	0.07	0.723	0.353	0.913

Level 2

Test No.	Band	Mode	Channel	Test Position	Data Rate	Duty Cycle (%)	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
W29	WiFi 2.4G	802.11b	6	Right Cheek	1M	97.89	18.00	17.44	0.06	0.3	0.151	0.349
W30	WiFi 2.4G	802.11b	6	Right Tilted	1M	97.89	18.00	17.44	-0.08	0.377	0.171	0.438
W31	WiFi 2.4G	802.11b	6	Left Cheek	1M	97.89	18.00	17.44	0.12	0.628	0.307	0.730
W32	WiFi 2.4G	802.11b	6	Left Tilted	1M	97.89	18.00	17.44	0.02	0.486	0.236	0.565
W33	WiFi 2.4G	802.11b	1	Left Cheek	1M	97.89	18.00	17.22	0.11	0.527	0.253	0.644
W34	WiFi 2.4G	802.11b	11	Left Cheek	1M	97.89	18.00	17.25	-0.09	0.589	0.287	0.715

Note: The value with boldface is the maximum SAR Value of each test band.

5. Head SAR test results of BT

Test No.	Band	Mode	Channel	Test Position	Data Rate	Duty Cycle (%)	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
B01	BT	DH5	78	Right Cheek	1M	76.30	14.00	12.60	0.02	0.046	0.023	0.083
B02	BT	DH5	78	Right Tilted	1M	76.30	14.00	12.60	0.04	0.068	0.030	0.123
B03	BT	DH5	78	Left Cheek	1M	76.30	14.00	12.60	-0.06	0.113	0.053	0.204
B04	BT	DH5	78	Left Tilted	1M	76.30	14.00	12.60	0.11	0.107	0.053	0.194
B05	BT	DH5	0	Left Cheek	1M	76.30	14.00	12.52	0.07	0.117	0.056	0.216
B06	BT	DH5	39	Left Cheek	1M	76.30	14.00	12.55	0.07	0.110	0.052	0.201

Note: The value with boldface is the maximum SAR Value of each test band.

6. Head SAR test results of WiFi 5G

Level 1

Test No.	Band	Mode	Channel	Test Position	Data Rate	Duty Cycle (%)	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
W07	WiFi 5.2G UNII_1	802.11a	36	Right Cheek	6M	98.08	15.00	14.20	-0.02	0.239	0.071	0.293
W08	WiFi 5.2G UNII_1	802.11a	36	Right Tilted	6M	98.08	15.00	14.20	0.04	0.215	0.064	0.264
W09	WiFi 5.2G UNII_1	802.11a	36	Left Cheek	6M	98.08	15.00	14.20	0.05	0.624	0.156	0.765
W10	WiFi 5.2G UNII_1	802.11a	36	Left Tilted	6M	98.08	15.00	14.20	0.07	0.811	0.191	0.994
W11	WiFi 5.2G UNII_1	802.11a	48	Left Tilted	6M	98.08	15.00	14.00	-0.08	0.713	0.185	0.915
W12	WiFi 5.3G UNII_2A	802.11a	64	Right Cheek	6M	98.08	15.00	14.71	0.07	0.171	0.047	0.186
W13	WiFi 5.3G UNII_2A	802.11a	64	Right Tilted	6M	98.08	15.00	14.71	0.01	0.215	0.058	0.234
W14	WiFi 5.3G UNII_2A	802.11a	64	Left Cheek	6M	98.08	15.00	14.71	0.05	0.548	0.137	0.597
W15	WiFi 5.3G UNII_2A	802.11a	64	Left Tilted	6M	98.08	15.00	14.71	0.11	0.597	0.142	0.650
W16	WiFi 5.3G UNII_2A	802.11a	52	Left Tilted	6M	98.08	15.00	14.60	0.07	0.727	0.161	0.813
W17	WiFi 5.6G UNII_2C	802.11a	120	Right Cheek	6M	98.08	16.50	15.85	0.09	0.171	0.058	0.202
W18	WiFi 5.6G UNII_2C	802.11a	120	Right Tilted	6M	98.08	16.50	15.85	0.07	0.177	0.065	0.210
W19	WiFi 5.6G UNII_2C	802.11a	120	Left Cheek	6M	98.08	16.50	15.85	0.05	0.928	0.286	1.099
W20	WiFi 5.6G UNII_2C	802.11a	120	Left Tilted	6M	98.08	16.50	15.85	-0.03	0.583	0.153	0.690
W21	WiFi 5.6G UNII_2C	802.11a	100	Left Cheek	6M	98.08	16.50	15.66	0.04	0.518	0.166	0.641
W22	WiFi 5.6G UNII_2C	802.11a	140	Left Cheek	6M	98.08	16.50	15.72	0.05	0.736	0.205	0.898
W23	WiFi 5.8G UNII_3	802.11a	149	Right Cheek	6M	98.08	16.50	15.69	0.09	0.203	0.055	0.249
W24	WiFi 5.8G UNII_3	802.11a	149	Right Tilted	6M	98.08	16.50	15.69	0.13	0.226	0.067	0.278
W25	WiFi 5.8G UNII_3	802.11a	149	Left Cheek	6M	98.08	16.50	15.69	0.04	0.655	0.194	0.805
W26	WiFi 5.8G UNII_3	802.11a	149	Left Tilted	6M	98.08	16.50	15.69	0.09	0.704	0.167	0.865
W27	WiFi 5.8G UNII_3	802.11a	157	Left Tilted	6M	98.08	16.50	15.49	0.05	0.638	0.160	0.821
W28	WiFi 5.8G UNII_3	802.11a	165	Left Tilted	6M	98.08	16.50	15.44	0.06	0.573	0.147	0.746

Level 2

Test No.	Band	Mode	Channel	Test Position	Data Rate	Duty Cycle (%)	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
W35	WiFi 5.2G UNII_1	802.11a	36	Right Cheek	6M	98.08	14.00	13.40	0.11	0.158	0.043	0.185
W36	WiFi 5.2G UNII_1	802.11a	36	Right Tilted	6M	98.08	14.00	13.40	0.02	0.220	0.051	0.258
W37	WiFi 5.2G UNII_1	802.11a	36	Left Cheek	6M	98.08	14.00	13.40	-0.09	0.561	0.127	0.657
W38	WiFi 5.2G UNII_1	802.11a	36	Left Tilted	6M	98.08	14.00	13.40	0.02	0.765	0.178	0.896
W39	WiFi 5.2G UNII_1	802.11a	48	Left Tilted	6M	98.08	14.00	13.26	0.05	0.674	0.135	0.814
W40	WiFi 5.3G UNII_2A	802.11a	64	Right Cheek	6M	98.08	14.00	13.34	0.07	0.169	0.046	0.201
W41	WiFi 5.3G UNII_2A	802.11a	64	Right Tilted	6M	98.08	14.00	13.34	0.06	0.229	0.06	0.272
W42	WiFi 5.3G UNII_2A	802.11a	64	Left Cheek	6M	98.08	14.00	13.34	0.12	0.365	0.089	0.433
W43	WiFi 5.3G UNII_2A	802.11a	64	Left Tilted	6M	98.08	14.00	13.34	-0.09	0.497	0.109	0.590
W44	WiFi 5.3G UNII_2A	802.11a	52	Left Tilted	6M	98.08	14.00	13.28	0.18	0.673	0.153	0.810
W45	WiFi 5.6G UNII_2C	802.11a	140	Right Cheek	6M	98.08	15.50	14.90	0.06	0.264	0.078	0.309
W46	WiFi 5.6G UNII_2C	802.11a	140	Right Tilted	6M	98.08	15.50	14.90	-0.08	0.504	0.13	0.590
W47	WiFi 5.6G UNII_2C	802.11a	140	Left Cheek	6M	98.08	15.50	14.90	0.02	0.838	0.236	0.981
W48	WiFi 5.6G UNII_2C	802.11a	140	Left Tilted	6M	98.08	15.50	14.90	0.06	0.651	0.157	0.762
W49	WiFi 5.6G UNII_2C	802.11a	100	Left Cheek	6M	98.08	15.50	14.88	0.04	0.458	0.126	0.539
W50	WiFi 5.6G UNII_2C	802.11a	120	Left Cheek	6M	98.08	15.50	14.80	0.05	0.699	0.177	0.837
W51	WiFi 5.8G UNII_3	802.11a	149	Right Cheek	6M	98.08	15.50	14.67	0.04	0.133	0.038	0.164
W52	WiFi 5.8G UNII_3	802.11a	149	Right Tilted	6M	98.08	15.50	14.67	-0.07	0.205	0.058	0.253
W53	WiFi 5.8G UNII_3	802.11a	149	Left Cheek	6M	98.08	15.50	14.67	0.12	0.472	0.105	0.583
W54	WiFi 5.8G UNII_3	802.11a	149	Left Tilted	6M	98.08	15.50	14.67	0.09	0.512	0.118	0.632
W55	WiFi 5.8G UNII_3	802.11a	157	Left Tilted	6M	98.08	15.50	14.46	-0.06	0.425	0.098	0.551
W56	WiFi 5.8G UNII_3	802.11a	165	Left Tilted	6M	98.08	15.50	14.59	0.02	0.353	0.084	0.444

Note: The value with boldface is the maximum SAR Value of each test band.

6.2.2 SAR MEASUREMENT RESULT OF BODY-WORN

1. Body-worn SAR test results of GSM

DSI2

Test No.	Band	Mode	Channel	Test Position	Separation Distance (mm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
G16	GSM 850	GPRS 2 TX	190	Front Side	15	Ant 31	1	32.00	30.61	-0.09	0.14	0.107	0.193
G17	GSM 850	GPRS 2 TX	190	Back Side	15	Ant 31	1	32.00	30.61	0.11	0.188	0.145	0.259
G18	GSM 850	GPRS 2 TX	128	Back Side	15	Ant 31	1	32.00	30.54	-0.18	0.128	0.098	0.179
G19	GSM 850	GPRS 2 TX	251	Back Side	15	Ant 31	1	32.00	30.20	-0.02	0.237	0.178	0.359
G20	GSM 850	GPRS 2 TX	251	Back Side	15	Ant 31	2	32.00	30.20	0.15	0.22	0.166	0.333
G22	GSM 1900	GPRS 2 TX	661	Front Side	15	Ant 31	1	28.50	28.11	0.14	0.168	0.1	0.184
G23	GSM 1900	GPRS 2 TX	661	Back Side	15	Ant 31	1	28.50	28.11	-0.14	0.258	0.153	0.282
G24	GSM 1900	GPRS 2 TX	512	Back Side	15	Ant 31	1	28.50	27.89	0	0.271	0.158	0.312
G25	GSM 1900	GPRS 2 TX	810	Back Side	15	Ant 31	1	28.50	27.88	0.19	0.197	0.114	0.227
G26	GSM 1900	GPRS 2 TX	512	Back Side	15	Ant 31	2	28.50	27.89	-0.05	0.267	0.156	0.307

Note: The value with boldface is the maximum SAR Value of each test band.

2. Body-worn SAR test results of UMTS

DSI2

Test No.	Band	Mode	Channel	Test Position	Separation Distance (mm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
U24	UMTS B2	RMC12.2K	9400	Front Side	15	Ant 13	1	21.00	20.33	-0.11	0.113	0.063	0.132
U25	UMTS B2	RMC12.2K	9400	Back Side	15	Ant 13	1	21.00	20.33	-0.01	0.187	0.103	0.218
U26	UMTS B2	RMC12.2K	9262	Back Side	15	Ant 13	1	21.00	20.30	-0.14	0.173	0.097	0.203
U27	UMTS B2	RMC12.2K	9538	Back Side	15	Ant 13	1	21.00	20.23	-0.11	0.181	0.103	0.216
U28	UMTS B2	RMC12.2K	9538	Back Side	15	Ant 13	2	21.00	20.23	-0.04	0.177	0.098	0.211
U30	UMTS B2	RMC12.2K	9400	Front Side	15	Ant 31	1	22.00	20.94	0.03	0.17	0.105	0.217
U31	UMTS B2	RMC12.2K	9400	Back Side	15	Ant 31	1	22.00	20.94	0.04	0.286	0.178	0.365
U32	UMTS B2	RMC12.2K	9262	Back Side	15	Ant 31	1	22.00	20.84	0.19	0.296	0.183	0.387
U33	UMTS B2	RMC12.2K	9538	Back Side	15	Ant 31	1	22.00	20.74	0.16	0.244	0.152	0.326
U34	UMTS B2	RMC12.2K	9262	Back Side	15	Ant 31	2	22.00	20.84	0.12	0.292	0.180	0.381
U36	UMTS B4	RMC12.2K	1413	Front Side	15	Ant 13	1	22.00	20.68	0.05	0.22	0.126	0.298
U37	UMTS B4	RMC12.2K	1413	Back Side	15	Ant 13	1	22.00	20.68	0.13	0.252	0.147	0.342
U38	UMTS B4	RMC12.2K	1312	Back Side	15	Ant 13	1	22.00	20.61	0.1	0.249	0.146	0.343
U39	UMTS B4	RMC12.2K	1513	Back Side	15	Ant 13	1	22.00	20.47	-0.02	0.244	0.143	0.347
U40	UMTS B4	RMC12.2K	1413	Back Side	15	Ant 13	2	22.00	20.68	0.03	0.276	0.161	0.374
U42	UMTS B4	RMC12.2K	1413	Front Side	15	Ant 31	1	22.50	21.50	-0.07	0.095	0.057	0.120
U43	UMTS B4	RMC12.2K	1413	Back Side	15	Ant 31	1	22.50	21.50	0.01	0.262	0.163	0.330
U44	UMTS B4	RMC12.2K	1312	Back Side	15	Ant 31	1	22.50	21.46	0.18	0.168	0.102	0.213
U45	UMTS B4	RMC12.2K	1513	Back Side	15	Ant 31	1	22.50	21.20	0.15	0.178	0.109	0.240
U46	UMTS B4	RMC12.2K	1413	Back Side	15	Ant 31	2	22.50	21.50	0.01	0.178	0.109	0.224
U48	UMTS B5	RMC12.2K	4182	Front Side	15	Ant 13	1	25.00	23.85	-0.16	0.132	0.089	0.172
U49	UMTS B5	RMC12.2K	4182	Back Side	15	Ant 13	1	25.00	23.85	0.18	0.198	0.133	0.258
U50	UMTS B5	RMC12.2K	4132	Back Side	15	Ant 13	1	25.00	23.72	0.19	0.171	0.113	0.230
U51	UMTS B5	RMC12.2K	4233	Back Side	15	Ant 13	1	25.00	23.82	-0.05	0.204	0.141	0.268
U52	UMTS B5	RMC12.2K	4233	Back Side	15	Ant 13	2	25.00	23.82	-0.16	0.194	0.136	0.255
U54	UMTS B5	RMC12.2K	4182	Front Side	15	Ant 31	1	25.00	23.84	0.13	0.156	0.1	0.204
U55	UMTS B5	RMC12.2K	4182	Back Side	15	Ant 31	1	25.00	23.84	0.12	0.174	0.109	0.227
U56	UMTS B5	RMC12.2K	4132	Back Side	15	Ant 31	1	25.00	23.71	-0.03	0.154	0.098	0.207
U57	UMTS B5	RMC12.2K	4233	Back Side	15	Ant 31	1	25.00	23.62	0.03	0.175	0.11	0.240
U58	UMTS B5	RMC12.2K	4233	Back Side	15	Ant 31	2	25.00	23.62	0.04	0.18	0.114	0.247

Note: The value with boldface is the maximum SAR Value of each test band.

3. Body-worn SAR test results of LTE

DSI2

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (mm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
L129	LTE B2	QPSK20M	18700	1	50	Front Side	15	Ant13	1	20.50	19.90	0.13	0.107	0.060	0.123
L130	LTE B2	QPSK20M	18700	1	50	Back Side	15	Ant13	1	20.50	19.90	0.12	0.167	0.094	0.192
L131	LTE B2	QPSK20M	18900	50	0	Front Side	15	Ant13	1	20.50	19.75	0.1	0.114	0.063	0.135
L132	LTE B2	QPSK20M	18900	50	0	Back Side	15	Ant13	1	20.50	19.75	0.05	0.170	0.094	0.202
L133	LTE B2	QPSK20M	18700	50	0	Back Side	15	Ant13	1	20.50	19.69	-0.15	0.170	0.093	0.205
L134	LTE B2	QPSK20M	19100	50	0	Back Side	15	Ant13	1	20.50	19.68	0.06	0.180	0.098	0.217
L135	LTE B2	QPSK20M	19100	50	0	Back Side	15	Ant13	2	20.50	19.68	0.07	0.183	0.100	0.221
L136	LTE B2	QPSK20M	18700	1	0	Front Side	15	Ant31	1	22.00	21.21	0.18	0.137	0.081	0.164
L137	LTE B2	QPSK20M	18700	1	0	Back Side	15	Ant31	1	22.00	21.21	-0.08	0.226	0.138	0.271
L138	LTE B2	QPSK20M	18900	50	25	Front Side	15	Ant31	1	22.00	21.16	0.14	0.131	0.079	0.159
L139	LTE B2	QPSK20M	18900	50	25	Back Side	15	Ant31	1	22.00	21.16	0.06	0.216	0.131	0.262
L140	LTE B2	QPSK20M	18900	1	99	Back Side	15	Ant31	1	22.00	20.89	0.12	0.208	0.122	0.269
L141	LTE B2	QPSK20M	19100	1	0	Back Side	15	Ant31	1	22.00	21.19	0.02	0.224	0.132	0.270
L142	LTE B2	QPSK20M	18700	1	0	Back Side	15	Ant31	2	22.00	21.21	-0.07	0.223	0.132	0.267
L143	LTE B4	QPSK20M	20175	1	0	Front Side	15	Ant13	1	21.50	20.96	-0.15	0.188	0.108	0.213
L144	LTE B4	QPSK20M	20175	1	0	Back Side	15	Ant13	1	21.50	20.96	-0.03	0.218	0.127	0.247
L145	LTE B4	QPSK20M	20175	50	0	Front Side	15	Ant13	1	21.50	20.95	0.06	0.190	0.110	0.216
L146	LTE B4	QPSK20M	20175	50	0	Back Side	15	Ant13	1	21.50	20.95	-0.04	0.215	0.124	0.244
L147	LTE B4	QPSK20M	20050	1	50	Back Side	15	Ant13	1	21.50	20.93	-0.13	0.218	0.127	0.249
L148	LTE B4	QPSK20M	20300	1	0	Back Side	15	Ant13	1	21.50	20.68	0.08	0.240	0.141	0.290
L149	LTE B4	QPSK20M	20300	1	0	Back Side	15	Ant13	2	21.50	20.68	-0.16	0.232	0.137	0.280
L150	LTE B4	QPSK20M	20175	1	0	Front Side	15	Ant31	1	22.50	22.27	-0.05	0.099	0.062	0.104
L151	LTE B4	QPSK20M	20175	1	0	Back Side	15	Ant31	1	22.50	22.27	0.03	0.197	0.120	0.208
L152	LTE B4	QPSK20M	20175	50	0	Front Side	15	Ant31	1	22.50	22.01	-0.16	0.103	0.064	0.115
L153	LTE B4	QPSK20M	20175	50	0	Back Side	15	Ant31	1	22.50	22.01	-0.15	0.191	0.119	0.214
L154	LTE B4	QPSK20M	20050	50	50	Back Side	15	Ant31	1	22.50	21.97	-0.04	0.190	0.118	0.215
L155	LTE B4	QPSK20M	20300	50	25	Back Side	15	Ant31	1	22.50	21.95	-0.16	0.194	0.120	0.220
L156	LTE B4	QPSK20M	20175	50	0	Back Side	15	Ant31	2	22.50	22.01	-0.01	0.200	0.124	0.224
L157	LTE B5	QPSK10M	20525	1	24	Front Side	15	Ant13	1	25.00	24.32	-0.13	0.114	0.075	0.133
L158	LTE B5	QPSK10M	20525	1	24	Back Side	15	Ant13	1	25.00	24.32	0.07	0.167	0.113	0.195
L159	LTE B5	QPSK10M	20600	25	25	Front Side	15	Ant13	1	24.00	23.11	0.04	0.094	0.061	0.115
L160	LTE B5	QPSK10M	20600	25	25	Back Side	15	Ant13	1	24.00	23.11	0.03	0.141	0.095	0.173
L161	LTE B5	QPSK10M	20450	1	0	Back Side	15	Ant13	1	25.00	24.22	0.16	0.148	0.099	0.177
L162	LTE B5	QPSK10M	20600	1	24	Back Side	15	Ant13	1	25.00	24.29	-0.01	0.176	0.120	0.207
L163	LTE B5	QPSK10M	20600	1	24	Back Side	15	Ant13	2	25.00	24.29	-0.01	0.173	0.117	0.204
L164	LTE B5	QPSK10M	20525	1	24	Front Side	15	Ant31	1	25.00	24.81	0.05	0.158	0.116	0.165
L165	LTE B5	QPSK10M	20525	1	24	Back Side	15	Ant31	1	25.00	24.81	0	0.189	0.142	0.197
L166	LTE B5	QPSK10M	20525	25	0	Front Side	15	Ant31	1	24.00	23.24	0.12	0.116	0.086	0.138
L167	LTE B5	QPSK10M	20525	25	0	Back Side	15	Ant31	1	24.00	23.24	0.06	0.146	0.109	0.174
L168	LTE B5	QPSK10M	20450	1	24	Back Side	15	Ant31	1	25.00	24.46	0.09	0.161	0.121	0.182
L169	LTE B5	QPSK10M	20600	1	24	Back Side	15	Ant31	1	25.00	24.45	-0.05	0.171	0.128	0.194
L170	LTE B5	QPSK10M	20525	1	24	Back Side	15	Ant31	2	25.00	24.81	-0.06	0.180	0.134	0.188

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (mm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
L171	LTE B7	QPKS20M	20850	1	50	Front Side	15	Ant13	1	18.50	18.29	-0.01	0.087	0.044	0.091
L172	LTE B7	QPKS20M	20850	1	50	Back Side	15	Ant13	1	18.50	18.29	0.09	0.328	0.161	0.344
L173	LTE B7	QPKS20M	21100	50	0	Front Side	15	Ant13	1	18.50	17.93	-0.16	0.090	0.047	0.103
L174	LTE B7	QPKS20M	21100	50	0	Back Side	15	Ant13	1	18.50	17.93	-0.07	0.341	0.167	0.389
L175	LTE B7	QPKS20M	20850	50	0	Back Side	15	Ant13	1	18.50	17.84	-0.17	0.323	0.158	0.376
L176	LTE B7	QPKS20M	21350	50	0	Back Side	15	Ant13	1	18.50	17.90	0.09	0.355	0.170	0.408
L177	LTE B7	QPKS20M	21350	50	0	Back Side	15	Ant13	2	18.50	17.90	0.15	0.350	0.168	0.402
L178	LTE B7	QPKS20M	21100	1	50	Front Side	15	Ant31	1	22.00	21.57	0.01	0.116	0.060	0.128
L179	LTE B7	QPKS20M	21100	1	50	Back Side	15	Ant31	1	22.00	21.57	-0.02	0.225	0.122	0.248
L180	LTE B7	QPKS20M	20850	50	0	Front Side	15	Ant31	1	22.00	21.39	-0.03	0.110	0.064	0.127
L181	LTE B7	QPKS20M	20850	50	0	Back Side	15	Ant31	1	22.00	21.39	0.02	0.204	0.117	0.235
L182	LTE B7	QPKS20M	20850	1	50	Back Side	15	Ant31	1	22.00	21.52	-0.04	0.201	0.116	0.224
L183	LTE B7	QPKS20M	21350	1	99	Back Side	15	Ant31	1	22.00	21.42	0.05	0.198	0.114	0.226
L184	LTE B7	QPKS20M	21100	1	50	Back Side	15	Ant31	2	22.00	21.57	0.02	0.208	0.120	0.230
L185	LTE B13	QPSK10M	23230	1	24	Front Side	15	Ant13	1	25.00	24.15	-0.1	0.126	0.097	0.153
L186	LTE B13	QPSK10M	23230	1	24	Back Side	15	Ant13	1	25.00	24.15	-0.05	0.155	0.118	0.189
L187	LTE B13	QPSK10M	23230	25	0	Front Side	15	Ant13	1	24.00	23.05	-0.05	0.097	0.074	0.121
L188	LTE B13	QPSK10M	23230	25	0	Back Side	15	Ant13	1	24.00	23.05	0.06	0.116	0.089	0.144
L189	LTE B13	QPSK10M	23230	1	24	Back Side	15	Ant13	2	25.00	24.15	-0.19	0.151	0.115	0.184
L190	LTE B13	QPSK10M	23230	1	24	Front Side	15	Ant31	1	25.00	24.18	-0.16	0.091	0.069	0.109
L191	LTE B13	QPSK10M	23230	1	24	Back Side	15	Ant31	1	25.00	24.18	0.12	0.106	0.080	0.128
L192	LTE B13	QPSK10M	23230	25	0	Front Side	15	Ant31	1	24.00	22.89	0.19	0.067	0.049	0.087
L193	LTE B13	QPSK10M	23230	25	0	Back Side	15	Ant31	1	24.00	22.89	-0.1	0.072	0.054	0.093
L194	LTE B13	QPSK10M	23230	1	24	Back Side	15	Ant31	2	25.00	24.18	0.1	0.104	0.078	0.126
L195	LTE B26	QPSK15M	26765	1	37	Front Side	15	Ant13	1	25.00	24.28	0	0.088	0.057	0.103
L196	LTE B26	QPSK15M	26765	1	37	Back Side	15	Ant13	1	25.00	24.28	0.01	0.132	0.086	0.156
L197	LTE B26	QPSK15M	26865	36	0	Front Side	15	Ant13	1	24.00	23.04	0.05	0.077	0.051	0.096
L198	LTE B26	QPSK15M	26865	36	0	Back Side	15	Ant13	1	24.00	23.04	-0.09	0.115	0.077	0.143
L199	LTE B26	QPSK15M	26865	1	37	Back Side	15	Ant13	1	25.00	24.26	-0.06	0.162	0.107	0.192
L200	LTE B26	QPSK15M	26965	1	74	Back Side	15	Ant13	1	25.00	24.13	-0.1	0.141	0.091	0.172
L201	LTE B26	QPSK15M	26865	1	37	Back Side	15	Ant13	2	25.00	24.26	0.19	0.160	0.106	0.190
L202	LTE B26	QPSK15M	26765	1	37	Front Side	15	Ant31	1	25.00	24.31	0.03	0.134	0.101	0.157
L203	LTE B26	QPSK15M	26765	1	37	Back Side	15	Ant31	1	25.00	24.31	0.15	0.160	0.119	0.188
L204	LTE B26	QPSK15M	26865	36	0	Front Side	15	Ant31	1	24.00	23.15	0.09	0.117	0.088	0.142
L205	LTE B26	QPSK15M	26865	36	0	Back Side	15	Ant31	1	24.00	23.15	-0.08	0.136	0.101	0.165
L206	LTE B26	QPSK15M	26865	1	37	Back Side	15	Ant31	1	25.00	24.30	-0.19	0.188	0.140	0.221
L207	LTE B26	QPSK15M	26965	1	37	Back Side	15	Ant31	1	25.00	24.07	0.01	0.191	0.142	0.237
L208	LTE B26	QPSK15M	26965	1	37	Back Side	15	Ant31	2	25.00	24.07	0.2	0.197	0.147	0.244
L209	LTE B38	QPSK20M	38000	1	0	Front Side	15	Ant13	1	20.00	19.68	-0.12	0.087	0.044	0.094
L210	LTE B38	QPSK20M	38000	1	0	Back Side	15	Ant13	1	20.00	19.68	-0.12	0.289	0.138	0.311
L211	LTE B38	QPSK20M	38000	50	0	Front Side	15	Ant13	1	20.00	19.45	-0.13	0.086	0.044	0.098
L212	LTE B38	QPSK20M	38000	50	0	Back Side	15	Ant13	1	20.00	19.45	0.01	0.296	0.141	0.336
L213	LTE B38	QPSK20M	37850	50	50	Back Side	15	Ant13	1	20.00	19.34	0.07	0.282	0.134	0.328
L214	LTE B38	QPSK20M	38150	50	0	Back Side	15	Ant13	1	20.00	19.40	0.18	0.281	0.134	0.323
L215	LTE B38	QPSK20M	38000	50	0	Back Side	15	Ant13	2	20.00	19.45	0.05	0.295	0.141	0.335

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (mm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
L216	LTE B38	QPSK20M	37850	1	50	Front Side	15	Ant31	1	24.50	24.21	-0.17	0.124	0.065	0.133
L217	LTE B38	QPSK20M	37850	1	50	Back Side	15	Ant31	1	24.50	24.21	0.01	0.237	0.127	0.253
L218	LTE B38	QPSK20M	38150	50	0	Front Side	15	Ant31	1	23.50	23.25	-0.13	0.110	0.059	0.117
L219	LTE B38	QPSK20M	38150	50	0	Back Side	15	Ant31	1	23.50	23.25	0.14	0.181	0.098	0.192
L220	LTE B38	QPSK20M	38000	1	50	Back Side	15	Ant31	1	24.50	24.18	-0.03	0.224	0.121	0.241
L221	LTE B38	QPSK20M	38150	1	50	Back Side	15	Ant31	1	24.50	24.16	-0.07	0.223	0.121	0.241
L222	LTE B38	QPSK20M	37850	1	50	Back Side	15	Ant31	2	24.50	24.21	-0.07	0.228	0.122	0.244
L237	LTE B41	QPSK20M	40620	1	50	Front Side	15	Ant13	1	19.90	19.49	0.18	0.087	0.044	0.096
L238	LTE B41	QPSK20M	40620	1	50	Back Side	15	Ant13	1	19.90	19.49	0.03	0.268	0.128	0.295
L239	LTE B41	QPSK20M	41055	50	0	Front Side	15	Ant13	1	19.90	19.17	0.19	0.077	0.040	0.091
L240	LTE B41	QPSK20M	41055	50	0	Back Side	15	Ant13	1	19.90	19.17	0.08	0.240	0.115	0.284
L241	LTE B41	QPSK20M	39750	1	50	Back Side	15	Ant13	1	19.90	19.44	0.05	0.282	0.136	0.314
L242	LTE B41	QPSK20M	40185	1	0	Back Side	15	Ant13	1	19.90	19.28	-0.07	0.264	0.129	0.305
L243	LTE B41	QPSK20M	41055	1	50	Back Side	15	Ant13	1	19.90	19.48	-0.14	0.275	0.133	0.303
L244	LTE B41	QPSK20M	41490	1	50	Back Side	15	Ant13	1	19.90	19.26	0.01	0.180	0.091	0.209
L245	LTE B41	QPSK20M	39750	1	50	Back Side	15	Ant13	2	19.90	19.44	0.09	0.271	0.125	0.301
L246	LTE B41	QPSK20M	40620	1	50	Front Side	15	Ant31	1	24.40	23.98	0.19	0.104	0.057	0.115
L247	LTE B41	QPSK20M	40620	1	50	Back Side	15	Ant31	1	24.40	23.98	0.12	0.181	0.102	0.199
L248	LTE B41	QPSK20M	41490	50	0	Front Side	15	Ant31	1	23.40	22.89	-0.17	0.076	0.041	0.085
L249	LTE B41	QPSK20M	41490	50	0	Back Side	15	Ant31	1	23.40	22.89	-0.07	0.126	0.071	0.142
L250	LTE B41	QPSK20M	39750	1	50	Back Side	15	Ant31	1	24.40	22.39	0.1	0.095	0.053	0.150
L251	LTE B41	QPSK20M	40185	1	50	Back Side	15	Ant31	1	24.40	23.66	0.02	0.199	0.108	0.236
L252	LTE B41	QPSK20M	41055	1	0	Back Side	15	Ant31	1	24.40	23.60	0.08	0.166	0.089	0.200
L253	LTE B41	QPSK20M	41490	1	0	Back Side	15	Ant31	1	24.40	23.81	-0.17	0.162	0.086	0.186
L254	LTE B41	QPSK20M	40185	1	50	Back Side	15	Ant31	2	24.40	23.66	0.05	0.170	0.092	0.202
L255	LTE B66	QPSK20M	132322	1	99	Front Side	15	Ant13	1	22.00	21.40	-0.18	0.119	0.119	0.137
L256	LTE B66	QPSK20M	132322	1	99	Back Side	15	Ant13	1	22.00	21.40	0.06	0.254	0.144	0.292
L257	LTE B66	QPSK20M	132072	50	0	Front Side	15	Ant13	1	22.00	21.23	-0.01	0.221	0.126	0.264
L258	LTE B66	QPSK20M	132072	50	0	Back Side	15	Ant13	1	22.00	21.23	-0.15	0.247	0.144	0.295
L259	LTE B66	QPSK20M	132322	50	0	Back Side	15	Ant13	1	22.00	21.19	0.03	0.272	0.159	0.328
L260	LTE B66	QPSK20M	132572	50	0	Back Side	15	Ant13	1	22.00	21.19	0	0.256	0.149	0.308
L261	LTE B66	QPSK20M	132322	50	0	Back Side	15	Ant13	2	22.00	21.19	0.13	0.263	0.154	0.317
L262	LTE B66	QPSK20M	132322	1	99	Front Side	15	Ant31	1	22.00	21.34	-0.16	0.122	0.046	0.142
L263	LTE B66	QPSK20M	132322	1	99	Back Side	15	Ant31	1	22.00	21.34	0.17	0.224	0.084	0.261
L264	LTE B66	QPSK20M	132072	50	50	Front Side	15	Ant31	1	22.00	21.20	0.06	0.203	0.075	0.244
L265	LTE B66	QPSK20M	132072	50	50	Back Side	15	Ant31	1	22.00	21.20	0.02	0.105	0.040	0.126
L266	LTE B66	QPSK20M	132072	1	50	Back Side	15	Ant31	1	22.00	21.21	-0.05	0.219	0.080	0.263
L267	LTE B66	QPSK20M	132572	1	50	Back Side	15	Ant31	1	22.00	21.15	0.07	0.234	0.146	0.285
L268	LTE B66	QPSK20M	132572	1	50	Back Side	15	Ant31	2	22.00	21.15	0.16	0.231	0.086	0.281

Note: The value with boldface is the maximum SAR Value of each test band.

4. Body-worn SAR test results of WiFi 2.4G

Test No.	Band	Mode	Channel	Test Position	Separation Distance (mm)	Data Rate	Duty Cycle (%)	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
W57	WiFi 2.4G	802.11b	11	Front Side	15	1M	97.89	19.50	19.15	0.12	0.106	0.058	0.117
W58	WiFi 2.4G	802.11b	11	Back Side	15	1M	97.89	19.50	19.15	-0.03	0.305	0.173	0.338
W59	WiFi 2.4G	802.11b	1	Back Side	15	1M	97.89	19.50	18.89	0.07	0.266	0.148	0.313
W60	WiFi 2.4G	802.11b	6	Back Side	15	1M	97.89	19.50	18.82	-0.06	0.282	0.157	0.337

Note: The value with boldface is the maximum SAR Value of each test band.

5. Body-worn SAR test results of WiFi 5G

Test No.	Band	Mode	Channel	Test Position	Separation Distance (mm)	Data Rate	Duty Cycle (%)	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
W65	WiFi 5.2G UNII_1	802.11a	48	Front Side	15	6M	98.08	19.50	18.75	-0.06	0.185	0.139	0.224
W66	WiFi 5.2G UNII_1	802.11a	48	Back Side	15	6M	98.08	19.50	18.75	0.07	0.596	0.492	0.722
W67	WiFi 5.2G UNII_1	802.11a	36	Back Side	15	6M	98.08	19.50	18.63	0.06	0.633	0.252	0.789
W68	WiFi 5.3G UNII_2A	802.11a	52	Front Side	15	6M	98.08	19.50	18.35	-0.07	0.206	0.077	0.274
W69	WiFi 5.3G UNII_2A	802.11a	52	Back Side	15	6M	98.08	19.50	18.35	0.09	0.745	0.293	0.990
W70	WiFi 5.3G UNII_2A	802.11a	64	Back Side	15	6M	98.08	19.50	18.28	0.06	0.671	0.259	0.906
W71	WiFi 5.6G UNII_2C	802.11a	140	Front Side	15	6M	98.08	18.50	18.05	0.08	0.178	0.069	0.201
W72	WiFi 5.6G UNII_2C	802.11a	140	Back Side	15	6M	98.08	18.50	18.05	0.05	0.407	0.143	0.460
W73	WiFi 5.6G UNII_2C	802.11a	100	Back Side	15	6M	98.08	18.50	17.63	-0.06	0.161	0.064	0.201
W74	WiFi 5.6G UNII_2C	802.11a	120	Back Side	15	6M	98.08	18.50	17.52	0.02	0.315	0.110	0.402
W75	WiFi 5.8G UNII_3	802.11a	149	Front Side	15	6M	98.08	18.50	17.88	0.08	0.159	0.059	0.187
W76	WiFi 5.8G UNII_3	802.11a	149	Back Side	15	6M	98.08	18.50	17.88	0.12	0.336	0.129	0.395
W77	WiFi 5.8G UNII_3	802.11a	157	Back Side	15	6M	98.08	18.50	17.79	0.05	0.347	0.133	0.417
W78	WiFi 5.8G UNII_3	802.11a	165	Back Side	15	6M	98.08	18.50	17.83	-0.09	0.329	0.126	0.391

Note: The value with boldface is the maximum SAR Value of each test band.

6.2.3 SAR MEASUREMENT RESULT OF HOTSPOT

1. Hotspot SAR test results of GSM

DSI4

Test No.	Band	Mode	Channel	Test Position	Separation Distance (mm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
G27	GSM 850	GPRS 2 TX	128	Front Side	10	Ant 31	1	32.00	30.54	0.17	0.104	0.066	0.146
G28	GSM 850	GPRS 2 TX	128	Back Side	10	Ant 31	1	32.00	30.54	-0.06	0.207	0.127	0.290
G29	GSM 850	GPRS 2 TX	128	Left Side	10	Ant 31	1	32.00	30.54	-0.12	0.055	0.037	0.077
G30	GSM 850	GPRS 2 TX	128	Right Side	10	Ant 31	1	32.00	30.54	0.09	0.040	0.025	0.056
G31	GSM 850	GPRS 2 TX	128	Top Side	10	Ant 31	1	32.00	30.54	0.06	0.008	0.0051	0.011
G32	GSM 850	GPRS 2 TX	128	Bottom Side	10	Ant 31	1	32.00	30.54	0.04	0.162	0.088	0.227
G33	GSM 850	GPRS 2 TX	190	Back Side	10	Ant 31	1	32.00	30.21	0.01	0.310	0.19	0.468
G34	GSM 850	GPRS 2 TX	251	Back Side	10	Ant 31	1	32.00	30.20	-0.05	0.402	0.247	0.608
G35	GSM 850	GPRS 2 TX	251	Back Side	10	Ant 31	2	32.00	30.20	0.08	0.390	0.235	0.590
G37	GSM 1900	GPRS 2 TX	661	Front Side	10	Ant 31	1	26.50	25.40	0	0.307	0.13	0.395
G38	GSM 1900	GPRS 2 TX	661	Back Side	10	Ant 31	1	26.50	25.40	0.12	0.500	0.223	0.644
G39	GSM 1900	GPRS 2 TX	661	Left Side	10	Ant 31	1	26.50	25.40	0.07	0.081	0.035	0.104
G40	GSM 1900	GPRS 2 TX	661	Right Side	10	Ant 31	1	26.50	25.40	0.16	0.161	0.065	0.207
G41	GSM 1900	GPRS 2 TX	661	Top Side	10	Ant 31	1	26.50	25.40	-0.1	<0.001	<0.001	<0.001
G42	GSM 1900	GPRS 2 TX	661	Bottom Side	10	Ant 31	1	26.50	25.40	0	0.654	0.272	0.843
G43	GSM 1900	GPRS 2 TX	512	Bottom Side	10	Ant 31	1	26.50	25.12	-0.13	0.612	0.248	0.841
G44	GSM 1900	GPRS 2 TX	810	Bottom Side	10	Ant 31	1	26.50	25.25	-0.14	0.607	0.241	0.809
G45	GSM 1900	GPRS 2 TX	661	Bottom Side	10	Ant 31	2	26.50	25.40	0.19	0.620	0.26	0.799

Note: The value with boldface is the maximum SAR Value of each test band.

2. Hotspot SAR test results of UMTS

DSI4

Test No.	Band	Mode	Channel	Test Position	Separation Distance (mm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
U60	UMTS B2	RMC12.2K	9400	Front Side	10	Ant 13	1	18.50	17.80	-0.06	0.174	0.089	0.204
U61	UMTS B2	RMC12.2K	9400	Back Side	10	Ant 13	1	18.50	17.80	0.1	0.264	0.137	0.310
U62	UMTS B2	RMC12.2K	9400	Left Side	10	Ant 13	1	18.50	17.80	0	0.041	0.024	0.048
U63	UMTS B2	RMC12.2K	9400	Right Side	10	Ant 13	1	18.50	17.80	0.02	0.004	0.002	0.005
U64	UMTS B2	RMC12.2K	9400	Top Side	10	Ant 13	1	18.50	17.80	0.05	0.336	0.165	0.395
U65	UMTS B2	RMC12.2K	9400	Bottom Side	10	Ant 13	1	18.50	17.80	0.06	0.006	0.003	0.007
U66	UMTS B2	RMC12.2K	9262	Top Side	10	Ant 13	1	18.50	17.53	0.05	0.318	0.157	0.398
U67	UMTS B2	RMC12.2K	9538	Top Side	10	Ant 13	1	18.50	17.44	0.03	0.355	0.175	0.453
U68	UMTS B2	RMC12.2K	9400	Top Side	10	Ant 13	2	18.50	17.80	-0.17	0.351	0.166	0.412
U70	UMTS B2	RMC12.2K	9400	Front Side	10	Ant 31	1	20.00	18.83	-0.12	0.148	0.092	0.194
U71	UMTS B2	RMC12.2K	9400	Back Side	10	Ant 31	1	20.00	18.83	-0.05	0.290	0.174	0.380
U72	UMTS B2	RMC12.2K	9400	Left Side	10	Ant 31	1	20.00	18.83	0	0.040	0.025	0.052
U73	UMTS B2	RMC12.2K	9400	Right Side	10	Ant 31	1	20.00	18.83	0.09	0.078	0.043	0.102
U74	UMTS B2	RMC12.2K	9400	Top Side	10	Ant 31	1	20.00	18.83	0.15	0.005	0.003	0.007
U75	UMTS B2	RMC12.2K	9400	Bottom Side	10	Ant 31	1	20.00	18.83	0.17	0.313	0.181	0.410
U76	UMTS B2	RMC12.2K	9262	Bottom Side	10	Ant 31	1	20.00	18.63	0.01	0.362	0.209	0.496
U77	UMTS B2	RMC12.2K	9538	Bottom Side	10	Ant 31	1	20.00	18.74	-0.17	0.306	0.176	0.409
U78	UMTS B2	RMC12.2K	9262	Bottom Side	10	Ant 31	2	20.00	18.63	0.01	0.385	0.217	0.528
U80	UMTS B4	RMC12.2K	1413	Front Side	10	Ant 13	1	20.00	18.63	-0.07	0.326	0.174	0.447
U81	UMTS B4	RMC12.2K	1413	Back Side	10	Ant 13	1	20.00	18.63	-0.09	0.366	0.202	0.502
U82	UMTS B4	RMC12.2K	1413	Left Side	10	Ant 13	1	20.00	18.63	0.14	0.064	0.038	0.088
U83	UMTS B4	RMC12.2K	1413	Right Side	10	Ant 13	1	20.00	18.63	-0.07	0.009	0.005	0.012
U84	UMTS B4	RMC12.2K	1413	Top Side	10	Ant 13	1	20.00	18.63	0.04	0.470	0.237	0.644
U85	UMTS B4	RMC12.2K	1413	Bottom Side	10	Ant 13	1	20.00	18.63	0.08	<0.001	<0.001	<0.001
U86	UMTS B4	RMC12.2K	1312	Top Side	10	Ant 13	1	20.00	18.54	-0.08	0.409	0.215	0.572
U87	UMTS B4	RMC12.2K	1513	Top Side	10	Ant 13	1	20.00	18.48	0.18	0.426	0.227	0.605
U88	UMTS B4	RMC12.2K	1413	Top Side	10	Ant 13	2	20.00	18.63	-0.07	0.436	0.229	0.598
U90	UMTS B4	RMC12.2K	1413	Front Side	10	Ant 31	1	20.00	19.08	0.11	0.103	0.06	0.127
U91	UMTS B4	RMC12.2K	1413	Back Side	10	Ant 31	1	20.00	19.08	0.17	0.201	0.117	0.248
U92	UMTS B4	RMC12.2K	1413	Left Side	10	Ant 31	1	20.00	19.08	0.17	0.012	0.006	0.015
U93	UMTS B4	RMC12.2K	1413	Right Side	10	Ant 31	1	20.00	19.08	0.06	0.037	0.021	0.046
U94	UMTS B4	RMC12.2K	1413	Top Side	10	Ant 31	1	20.00	19.08	-0.07	<0.001	<0.001	<0.001
U95	UMTS B4	RMC12.2K	1413	Bottom Side	10	Ant 31	1	20.00	19.08	-0.15	0.262	0.143	0.324
U96	UMTS B4	RMC12.2K	1312	Bottom Side	10	Ant 31	1	20.00	19.04	0.18	0.319	0.178	0.398
U97	UMTS B4	RMC12.2K	1513	Bottom Side	10	Ant 31	1	20.00	18.91	0.03	0.295	0.162	0.379
U98	UMTS B4	RMC12.2K	1312	Bottom Side	10	Ant 31	2	20.00	19.04	-0.09	0.310	0.171	0.387
U100	UMTS B5	RMC12.2K	4182	Front Side	10	Ant 13	1	23.00	22.02	0.08	0.143	0.094	0.179
U101	UMTS B5	RMC12.2K	4182	Back Side	10	Ant 13	1	23.00	22.02	0.03	0.229	0.149	0.287
U102	UMTS B5	RMC12.2K	4182	Left Side	10	Ant 13	1	23.00	22.02	0.06	0.051	0.034	0.064
U103	UMTS B5	RMC12.2K	4182	Right Side	10	Ant 13	1	23.00	22.02	0.18	0.063	0.043	0.079
U104	UMTS B5	RMC12.2K	4182	Top Side	10	Ant 13	1	23.00	22.02	0.19	0.191	0.108	0.239
U105	UMTS B5	RMC12.2K	4182	Bottom Side	10	Ant 13	1	23.00	22.02	0.09	0.011	0.007	0.014
U106	UMTS B5	RMC12.2K	4132	Back Side	10	Ant 13	1	23.00	21.87	0.09	0.206	0.112	0.267
U107	UMTS B5	RMC12.2K	4233	Back Side	10	Ant 13	1	23.00	21.89	-0.05	0.258	0.168	0.333
U108	UMTS B5	RMC12.2K	4233	Back Side	10	Ant 13	2	23.00	21.89	0.14	0.254	0.167	0.328

Test No.	Band	Mode	Channel	Test Position	Separation Distance (mm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
U110	UMTS B5	RMC12.2K	4182	Front Side	10	Ant 31	1	24.00	23.10	0.12	0.123	0.078	0.151
U111	UMTS B5	RMC12.2K	4182	Back Side	10	Ant 31	1	24.00	23.10	-0.18	0.224	0.137	0.276
U112	UMTS B5	RMC12.2K	4182	Left Side	10	Ant 31	1	24.00	23.10	0.03	0.079	0.053	0.097
U113	UMTS B5	RMC12.2K	4182	Right Side	10	Ant 31	1	24.00	23.10	-0.04	0.072	0.049	0.089
U114	UMTS B5	RMC12.2K	4182	Top Side	10	Ant 31	1	24.00	23.10	0.06	0.010	0.007	0.013
U115	UMTS B5	RMC12.2K	4182	Bottom Side	10	Ant 31	1	24.00	23.10	0.05	0.212	0.112	0.261
U116	UMTS B5	RMC12.2K	4132	Back Side	10	Ant 31	1	24.00	23.02	0.14	0.188	0.117	0.236
U117	UMTS B5	RMC12.2K	4233	Back Side	10	Ant 31	1	24.00	22.98	-0.05	0.237	0.145	0.300
U118	UMTS B5	RMC12.2K	4233	Back Side	10	Ant 31	2	24.00	22.98	0.07	0.229	0.142	0.290

Note: The value with boldface is the maximum SAR Value of each test band.

3. Hotspot SAR test results of LTE

DSI4

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (mm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
L270	LTE B2	QPSK20M	18700	1	50	Front Side	10	Ant13	1	18.50	17.57	-0.09	0.130	0.071	0.161
L271	LTE B2	QPSK20M	18700	1	50	Back Side	10	Ant13	1	18.50	17.57	-0.18	0.198	0.105	0.245
L272	LTE B2	QPSK20M	18700	1	50	Left Side	10	Ant13	1	18.50	17.57	-0.13	0.034	0.020	0.042
L273	LTE B2	QPSK20M	18700	1	50	Right Side	10	Ant13	1	18.50	17.57	0.02	0.020	0.012	0.025
L274	LTE B2	QPSK20M	18700	1	50	Top Side	10	Ant13	1	18.50	17.57	0.03	0.277	0.139	0.343
L275	LTE B2	QPSK20M	18700	1	50	Bottom Side	10	Ant13	1	18.50	17.57	0.06	0.007	0.004	0.009
L276	LTE B2	QPSK20M	18700	50	0	Front Side	10	Ant13	1	18.50	17.41	0.01	0.138	0.073	0.177
L277	LTE B2	QPSK20M	18700	50	0	Back Side	10	Ant13	1	18.50	17.41	-0.18	0.205	0.106	0.263
L278	LTE B2	QPSK20M	18700	50	0	Left Side	10	Ant13	1	18.50	17.41	0.01	0.039	0.020	0.050
L279	LTE B2	QPSK20M	18700	50	0	Right Side	10	Ant13	1	18.50	17.41	-0.16	0.020	0.012	0.025
L280	LTE B2	QPSK20M	18700	50	0	Top Side	10	Ant13	1	18.50	17.41	-0.14	0.325	0.162	0.417
L281	LTE B2	QPSK20M	18700	50	0	Bottom Side	10	Ant13	1	18.50	17.41	0.05	0.007	0.004	0.009
L282	LTE B2	QPSK20M	18900	50	25	Top Side	10	Ant13	1	18.50	17.15	-0.02	0.291	0.144	0.397
L283	LTE B2	QPSK20M	19100	50	0	Top Side	10	Ant13	1	18.50	17.07	-0.01	0.287	0.144	0.399
L284	LTE B2	QPSK20M	18700	50	0	Top Side	10	Ant13	2	18.50	17.41	0.05	0.286	0.143	0.368
L285	LTE B2	QPSK20M	18700	1	50	Front Side	10	Ant31	1	20.00	19.06	-0.03	0.138	0.085	0.171
L286	LTE B2	QPSK20M	18700	1	50	Back Side	10	Ant31	1	20.00	19.06	0.1	0.269	0.160	0.334
L287	LTE B2	QPSK20M	18700	1	50	Left Side	10	Ant31	1	20.00	19.06	-0.14	0.038	0.025	0.047
L288	LTE B2	QPSK20M	18700	1	50	Right Side	10	Ant31	1	20.00	19.06	0.07	0.077	0.043	0.096
L289	LTE B2	QPSK20M	18700	1	50	Top Side	10	Ant31	1	20.00	19.06	0.02	0.008	0.005	0.010
L290	LTE B2	QPSK20M	18700	1	50	Bottom Side	10	Ant31	1	20.00	19.06	0.12	0.369	0.207	0.458
L291	LTE B2	QPSK20M	18900	50	0	Front Side	10	Ant31	1	20.00	18.99	-0.04	0.138	0.083	0.174
L292	LTE B2	QPSK20M	18900	50	0	Back Side	10	Ant31	1	20.00	18.99	0.1	0.241	0.145	0.304
L293	LTE B2	QPSK20M	18900	50	0	Left Side	10	Ant31	1	20.00	18.99	0.02	0.044	0.026	0.055
L294	LTE B2	QPSK20M	18900	50	0	Right Side	10	Ant31	1	20.00	18.99	0.09	0.051	0.028	0.064
L295	LTE B2	QPSK20M	18900	50	0	Top Side	10	Ant31	1	20.00	18.99	0.03	0.012	0.007	0.015
L296	LTE B2	QPSK20M	18900	50	0	Bottom Side	10	Ant31	1	20.00	18.99	0.01	0.386	0.218	0.487
L297	LTE B2	QPSK20M	18700	50	0	Bottom Side	10	Ant31	1	20.00	18.96	-0.05	0.325	0.187	0.413
L298	LTE B2	QPSK20M	19100	50	0	Bottom Side	10	Ant31	1	20.00	18.75	0.16	0.274	0.159	0.365
L299	LTE B2	QPSK20M	18900	50	0	Bottom Side	10	Ant31	2	20.00	18.99	0.11	0.367	0.210	0.463
L300	LTE B4	QPSK20M	20300	1	0	Front Side	10	Ant13	1	19.50	18.95	0.12	0.252	0.131	0.286
L301	LTE B4	QPSK20M	20300	1	0	Back Side	10	Ant13	1	19.50	18.95	-0.18	0.282	0.155	0.320
L302	LTE B4	QPSK20M	20300	1	0	Left Side	10	Ant13	1	19.50	18.95	-0.13	0.045	0.026	0.051
L303	LTE B4	QPSK20M	20300	1	0	Right Side	10	Ant13	1	19.50	18.95	0.02	0.028	0.017	0.032
L304	LTE B4	QPSK20M	20300	1	0	Top Side	10	Ant13	1	19.50	18.95	-0.13	0.433	0.219	0.491
L305	LTE B4	QPSK20M	20300	1	0	Bottom Side	10	Ant13	1	19.50	18.95	-0.17	0.013	0.007	0.014
L306	LTE B4	QPSK20M	20175	50	0	Front Side	10	Ant13	1	19.50	18.29	-0.14	0.245	0.129	0.324
L307	LTE B4	QPSK20M	20175	50	0	Back Side	10	Ant13	1	19.50	18.29	0.04	0.260	0.143	0.344
L308	LTE B4	QPSK20M	20175	50	0	Left Side	10	Ant13	1	19.50	18.29	0.16	0.046	0.026	0.061
L309	LTE B4	QPSK20M	20175	50	0	Right Side	10	Ant13	1	19.50	18.29	-0.2	0.026	0.016	0.035
L310	LTE B4	QPSK20M	20175	50	0	Top Side	10	Ant13	1	19.50	18.29	-0.07	0.368	0.187	0.487
L311	LTE B4	QPSK20M	20175	50	0	Bottom Side	10	Ant13	1	19.50	18.29	-0.13	0.012	0.008	0.016
L312	LTE B4	QPSK20M	20050	1	0	Top Side	10	Ant13	1	19.50	18.55	0.13	0.294	0.143	0.366
L313	LTE B4	QPSK20M	20175	1	0	Top Side	10	Ant13	1	19.50	18.82	0.05	0.311	0.153	0.364
L314	LTE B4	QPSK20M	20300	1	0	Top Side	10	Ant13	2	19.50	18.95	0.01	0.386	0.210	0.438

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (mm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
L315	LTE B4	QPSK20M	20300	1	0	Front Side	10	Ant31	1	20.50	19.72	-0.07	0.100	0.062	0.120
L316	LTE B4	QPSK20M	20300	1	0	Back Side	10	Ant31	1	20.50	19.72	0.03	0.190	0.111	0.227
L317	LTE B4	QPSK20M	20300	1	0	Left Side	10	Ant31	1	20.50	19.72	-0.15	0.031	0.019	0.037
L318	LTE B4	QPSK20M	20300	1	0	Right Side	10	Ant31	1	20.50	19.72	-0.16	0.035	0.020	0.042
L319	LTE B4	QPSK20M	20300	1	0	Top Side	10	Ant31	1	20.50	19.72	0.04	0.009	0.006	0.011
L320	LTE B4	QPSK20M	20300	1	0	Bottom Side	10	Ant31	1	20.50	19.72	-0.05	0.292	0.162	0.349
L321	LTE B4	QPSK20M	20300	50	0	Front Side	10	Ant31	1	20.50	19.65	0.09	0.103	0.062	0.125
L322	LTE B4	QPSK20M	20300	50	0	Back Side	10	Ant31	1	20.50	19.65	-0.02	0.201	0.117	0.245
L323	LTE B4	QPSK20M	20300	50	0	Left Side	10	Ant31	1	20.50	19.65	0.06	0.023	0.014	0.028
L324	LTE B4	QPSK20M	20300	50	0	Right Side	10	Ant31	1	20.50	19.65	-0.03	0.033	0.019	0.041
L325	LTE B4	QPSK20M	20300	50	0	Top Side	10	Ant31	1	20.50	19.65	0.02	0.010	0.005	0.012
L326	LTE B4	QPSK20M	20300	50	0	Bottom Side	10	Ant31	1	20.50	19.65	0.09	0.329	0.184	0.400
L327	LTE B4	QPSK20M	20050	50	0	Bottom Side	10	Ant31	1	20.50	18.79	-0.08	0.260	0.144	0.385
L328	LTE B4	QPSK20M	20175	50	25	Bottom Side	10	Ant31	1	20.50	18.88	0.05	0.315	0.177	0.457
L329	LTE B4	QPSK20M	20300	50	0	Bottom Side	10	Ant31	2	20.50	19.65	-0.06	0.316	0.176	0.384
L330	LTE B5	QPSK10M	20450	1	24	Front Side	10	Ant13	1	24.00	23.56	0.05	0.208	0.130	0.230
L331	LTE B5	QPSK10M	20450	1	24	Back Side	10	Ant13	1	24.00	23.56	0.02	0.328	0.214	0.363
L332	LTE B5	QPSK10M	20450	1	24	Left Side	10	Ant13	1	24.00	23.56	-0.01	0.089	0.059	0.099
L333	LTE B5	QPSK10M	20450	1	24	Right Side	10	Ant13	1	24.00	23.56	-0.12	0.093	0.064	0.103
L334	LTE B5	QPSK10M	20450	1	24	Top Side	10	Ant13	1	24.00	23.56	-0.18	0.230	0.120	0.255
L335	LTE B5	QPSK10M	20450	1	24	Bottom Side	10	Ant13	1	24.00	23.56	0.07	0.012	0.008	0.013
L336	LTE B5	QPSK10M	20525	25	0	Front Side	10	Ant13	1	23.00	22.36	-0.02	0.158	0.103	0.183
L337	LTE B5	QPSK10M	20525	25	0	Back Side	10	Ant13	1	23.00	22.36	0.03	0.273	0.174	0.316
L338	LTE B5	QPSK10M	20525	25	0	Left Side	10	Ant13	1	23.00	22.36	-0.18	0.071	0.047	0.082
L339	LTE B5	QPSK10M	20525	25	0	Right Side	10	Ant13	1	23.00	22.36	0.17	0.089	0.059	0.103
L340	LTE B5	QPSK10M	20525	25	0	Top Side	10	Ant13	1	23.00	22.36	-0.12	0.183	0.102	0.212
L341	LTE B5	QPSK10M	20525	25	0	Bottom Side	10	Ant13	1	23.00	22.36	0.03	0.009	0.006	0.010
L342	LTE B5	QPSK10M	20525	1	24	Back Side	10	Ant13	1	24.00	23.51	0.14	0.357	0.232	0.400
L343	LTE B5	QPSK10M	20600	1	24	Back Side	10	Ant13	1	24.00	23.55	0.01	0.336	0.221	0.373
L344	LTE B5	QPSK10M	20525	1	24	Back Side	10	Ant13	2	24.00	23.51	-0.05	0.351	0.229	0.393
L345	LTE B5	QPSK10M	20525	1	24	Front Side	10	Ant31	1	24.00	23.00	0.11	0.128	0.077	0.161
L346	LTE B5	QPSK10M	20525	1	24	Back Side	10	Ant31	1	24.00	23.00	0.01	0.254	0.137	0.320
L347	LTE B5	QPSK10M	20525	1	24	Left Side	10	Ant31	1	24.00	23.00	0.06	0.121	0.077	0.152
L348	LTE B5	QPSK10M	20525	1	24	Right Side	10	Ant31	1	24.00	23.00	0.07	0.072	0.046	0.091
L349	LTE B5	QPSK10M	20525	1	24	Top Side	10	Ant31	1	24.00	23.00	0.01	0.008	0.006	0.010
L350	LTE B5	QPSK10M	20525	1	24	Bottom Side	10	Ant31	1	24.00	23.00	-0.03	0.243	0.122	0.306
L351	LTE B5	QPSK10M	20525	25	12	Front Side	10	Ant31	1	23.00	22.55	-0.18	0.132	0.079	0.146
L352	LTE B5	QPSK10M	20525	25	12	Back Side	10	Ant31	1	23.00	22.55	-0.16	0.234	0.137	0.259
L353	LTE B5	QPSK10M	20525	25	12	Left Side	10	Ant31	1	23.00	22.55	-0.05	0.129	0.082	0.143
L354	LTE B5	QPSK10M	20525	25	12	Right Side	10	Ant31	1	23.00	22.55	-0.13	0.090	0.057	0.100
L355	LTE B5	QPSK10M	20525	25	12	Top Side	10	Ant31	1	23.00	22.55	0	0.008	0.006	0.009
L356	LTE B5	QPSK10M	20525	25	12	Bottom Side	10	Ant31	1	23.00	22.55	-0.13	0.222	0.113	0.246
L357	LTE B5	QPSK10M	20450	1	24	Back Side	10	Ant31	1	24.00	22.90	0.02	0.209	0.124	0.269
L358	LTE B5	QPSK10M	20600	1	24	Back Side	10	Ant31	1	24.00	22.98	-0.20	0.261	0.153	0.330
L359	LTE B5	QPSK10M	20600	1	24	Back Side	10	Ant31	2	24.00	22.98	0.03	0.252	0.149	0.319

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (mm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
L360	LTE B7	QPSK20M	21100	1	50	Front Side	10	Ant13	1	16.50	15.86	0.04	0.141	0.068	0.163
L361	LTE B7	QPSK20M	21100	1	50	Back Side	10	Ant13	1	16.50	15.86	0.12	0.480	0.209	0.556
L362	LTE B7	QPSK20M	21100	1	50	Left Side	10	Ant13	1	16.50	15.86	-0.14	0.080	0.040	0.093
L363	LTE B7	QPSK20M	21100	1	50	Right Side	10	Ant13	1	16.50	15.86	-0.02	0.006	0.002	0.007
L364	LTE B7	QPSK20M	21100	1	50	Top Side	10	Ant13	1	16.50	15.86	0.14	0.595	0.254	0.690
L365	LTE B7	QPSK20M	21100	1	50	Bottom Side	10	Ant13	1	16.50	15.86	0.1	0.002	0.001	0.002
L366	LTE B7	QPSK20M	20850	50	0	Front Side	10	Ant13	1	16.50	15.59	-0.01	0.129	0.061	0.159
L367	LTE B7	QPSK20M	20850	50	0	Back Side	10	Ant13	1	16.50	15.59	0.14	0.495	0.219	0.611
L368	LTE B7	QPSK20M	20850	50	0	Left Side	10	Ant13	1	16.50	15.59	0.11	0.061	0.033	0.075
L369	LTE B7	QPSK20M	20850	50	0	Right Side	10	Ant13	1	16.50	15.59	0.05	0.008	0.003	0.010
L370	LTE B7	QPSK20M	20850	50	0	Top Side	10	Ant13	1	16.50	15.59	0.18	0.503	0.219	0.621
L371	LTE B7	QPSK20M	20850	50	0	Bottom Side	10	Ant13	1	16.50	15.59	0.07	0.002	0.001	0.002
L372	LTE B7	QPSK20M	20850	1	50	Top Side	10	Ant13	1	16.50	15.60	0.19	0.522	0.227	0.642
L373	LTE B7	QPSK20M	21350	1	99	Top Side	10	Ant13	1	16.50	15.64	-0.13	0.569	0.247	0.694
L374	LTE B7	QPSK20M	21350	1	99	Top Side	10	Ant13	2	16.50	15.64	0.02	0.524	0.231	0.639
L375	LTE B7	QPSK20M	21100	1	50	Front Side	10	Ant31	1	20.00	19.46	0.06	0.116	0.065	0.131
L376	LTE B7	QPSK20M	21100	1	50	Back Side	10	Ant31	1	20.00	19.46	-0.09	0.242	0.130	0.274
L377	LTE B7	QPSK20M	21100	1	50	Left Side	10	Ant31	1	20.00	19.46	0	0.013	0.007	0.015
L378	LTE B7	QPSK20M	21100	1	50	Right Side	10	Ant31	1	20.00	19.46	-0.05	0.120	0.060	0.136
L379	LTE B7	QPSK20M	21100	1	50	Top Side	10	Ant31	1	20.00	19.46	0.08	0.008	0.004	0.009
L380	LTE B7	QPSK20M	21100	1	50	Bottom Side	10	Ant31	1	20.00	19.46	0.07	0.137	0.069	0.155
L381	LTE B7	QPSK20M	21100	50	25	Front Side	10	Ant31	1	20.00	19.45	-0.03	0.120	0.064	0.136
L382	LTE B7	QPSK20M	21100	50	25	Back Side	10	Ant31	1	20.00	19.45	0.01	0.240	0.129	0.273
L383	LTE B7	QPSK20M	21100	50	25	Left Side	10	Ant31	1	20.00	19.45	0.03	0.014	0.007	0.016
L384	LTE B7	QPSK20M	21100	50	25	Right Side	10	Ant31	1	20.00	19.45	0.08	0.110	0.061	0.125
L385	LTE B7	QPSK20M	21100	50	25	Top Side	10	Ant31	1	20.00	19.45	0.01	0.007	0.003	0.008
L386	LTE B7	QPSK20M	21100	50	25	Bottom Side	10	Ant31	1	20.00	19.45	0.11	0.130	0.066	0.148
L387	LTE B7	QPSK20M	20850	1	50	Back Side	10	Ant31	1	20.00	19.31	0.05	0.231	0.121	0.271
L388	LTE B7	QPSK20M	21350	1	50	Back Side	10	Ant31	1	20.00	19.06	-0.06	0.211	0.113	0.262
L389	LTE B7	QPSK20M	21100	1	50	Back Side	10	Ant31	2	20.00	19.46	0.07	0.232	0.119	0.263
L390	LTE B13	QPSK10M	23230	1	24	Front Side	10	Ant13	1	25.00	24.23	-0.04	0.131	0.084	0.156
L391	LTE B13	QPSK10M	23230	1	24	Back Side	10	Ant13	1	25.00	24.23	0.17	0.205	0.134	0.245
L392	LTE B13	QPSK10M	23230	1	24	Left Side	10	Ant13	1	25.00	24.23	0.19	0.087	0.058	0.104
L393	LTE B13	QPSK10M	23230	1	24	Right Side	10	Ant13	1	25.00	24.23	-0.02	0.078	0.052	0.093
L394	LTE B13	QPSK10M	23230	1	24	Top Side	10	Ant13	1	25.00	24.23	-0.01	0.146	0.080	0.174
L395	LTE B13	QPSK10M	23230	1	24	Bottom Side	10	Ant13	1	25.00	24.23	0.06	0.006	0.004	0.007
L396	LTE B13	QPSK10M	23230	25	0	Front Side	10	Ant13	1	24.00	22.93	-0.18	0.146	0.080	0.187
L397	LTE B13	QPSK10M	23230	25	0	Back Side	10	Ant13	1	24.00	22.93	-0.03	0.156	0.100	0.200
L398	LTE B13	QPSK10M	23230	25	0	Left Side	10	Ant13	1	24.00	22.93	0	0.071	0.046	0.091
L399	LTE B13	QPSK10M	23230	25	0	Right Side	10	Ant13	1	24.00	22.93	0.18	0.084	0.057	0.108
L400	LTE B13	QPSK10M	23230	25	0	Top Side	10	Ant13	1	24.00	22.93	0.19	0.141	0.063	0.181
L401	LTE B13	QPSK10M	23230	25	0	Bottom Side	10	Ant13	1	24.00	22.93	0.01	0.007	0.004	0.009
L402	LTE B13	QPSK10M	23230	1	24	Back Side	10	Ant13	2	25.00	24.23	0.06	0.191	0.124	0.228

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (mm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
L403	LTE B13	QPSK10M	23230	1	24	Front Side	10	Ant31	1	25.00	24.19	-0.06	0.051	0.040	0.061
L404	LTE B13	QPSK10M	23230	1	24	Back Side	10	Ant31	1	25.00	24.19	0.11	0.077	0.053	0.093
L405	LTE B13	QPSK10M	23230	1	24	Left Side	10	Ant31	1	25.00	24.19	-0.17	0.046	0.033	0.055
L406	LTE B13	QPSK10M	23230	1	24	Right Side	10	Ant31	1	25.00	24.19	-0.19	0.036	0.026	0.043
L407	LTE B13	QPSK10M	23230	1	24	Top Side	10	Ant31	1	25.00	24.19	0.09	0.005	0.003	0.006
L408	LTE B13	QPSK10M	23230	1	24	Bottom Side	10	Ant31	1	25.00	24.19	0.05	0.079	0.043	0.095
L409	LTE B13	QPSK10M	23230	25	0	Front Side	10	Ant31	1	24.00	22.87	0.04	0.037	0.028	0.048
L410	LTE B13	QPSK10M	23230	25	0	Back Side	10	Ant31	1	24.00	22.87	-0.15	0.057	0.041	0.074
L411	LTE B13	QPSK10M	23230	25	0	Left Side	10	Ant31	1	24.00	22.87	0.11	0.031	0.022	0.040
L412	LTE B13	QPSK10M	23230	25	0	Right Side	10	Ant31	1	24.00	22.87	-0.19	0.026	0.014	0.034
L413	LTE B13	QPSK10M	23230	25	0	Top Side	10	Ant31	1	24.00	22.87	0.04	0.004	0.003	0.005
L414	LTE B13	QPSK10M	23230	25	0	Bottom Side	10	Ant31	1	24.00	22.87	0.14	0.043	0.025	0.056
L415	LTE B13	QPSK10M	23230	1	24	Back Side	10	Ant31	2	25.00	24.19	0.05	0.071	0.038	0.086
L416	LTE B26	QPSK15M	26865	1	37	Front Side	10	Ant13	1	25.00	24.28	0.12	0.200	0.131	0.236
L417	LTE B26	QPSK15M	26865	1	37	Back Side	10	Ant13	1	25.00	24.28	0.1	0.333	0.215	0.393
L418	LTE B26	QPSK15M	26865	1	37	Left Side	10	Ant13	1	25.00	24.28	-0.04	0.084	0.057	0.099
L419	LTE B26	QPSK15M	26865	1	37	Right Side	10	Ant13	1	25.00	24.28	-0.03	0.101	0.070	0.119
L420	LTE B26	QPSK15M	26865	1	37	Top Side	10	Ant13	1	25.00	24.28	0.01	0.248	0.145	0.293
L421	LTE B26	QPSK15M	26865	1	37	Bottom Side	10	Ant13	1	25.00	24.28	-0.08	0.130	0.009	0.153
L422	LTE B26	QPSK15M	26865	36	19	Front Side	10	Ant13	1	24.00	23.04	0.01	0.145	0.098	0.181
L423	LTE B26	QPSK15M	26865	36	19	Back Side	10	Ant13	1	24.00	23.04	0.15	0.249	0.162	0.310
L424	LTE B26	QPSK15M	26865	36	19	Left Side	10	Ant13	1	24.00	23.04	0.08	0.066	0.044	0.082
L425	LTE B26	QPSK15M	26865	36	19	Right Side	10	Ant13	1	24.00	23.04	-0.03	0.080	0.055	0.100
L426	LTE B26	QPSK15M	26865	36	19	Top Side	10	Ant13	1	24.00	23.04	0	0.156	0.088	0.194
L427	LTE B26	QPSK15M	26865	36	19	Bottom Side	10	Ant13	1	24.00	23.04	0.01	0.009	0.005	0.011
L428	LTE B26	QPSK15M	26765	1	37	Back Side	10	Ant13	1	25.00	24.16	-0.12	0.288	0.192	0.349
L429	LTE B26	QPSK15M	26965	1	0	Back Side	10	Ant13	1	25.00	24.08	0.1	0.303	0.204	0.374
L430	LTE B26	QPSK15M	26865	1	37	Back Side	10	Ant13	2	25.00	24.28	0.18	0.310	0.193	0.366
L431	LTE B26	QPSK15M	26765	1	37	Front Side	10	Ant31	1	25.00	24.54	0.05	0.114	0.077	0.127
L432	LTE B26	QPSK15M	26765	1	37	Back Side	10	Ant31	1	25.00	24.54	0.07	0.203	0.132	0.226
L433	LTE B26	QPSK15M	26765	1	37	Left Side	10	Ant31	1	25.00	24.54	-0.11	0.096	0.066	0.107
L434	LTE B26	QPSK15M	26765	1	37	Right Side	10	Ant31	1	25.00	24.54	0.09	0.059	0.040	0.065
L435	LTE B26	QPSK15M	26765	1	37	Top Side	10	Ant31	1	25.00	24.54	0.05	0.009	0.003	0.010
L436	LTE B26	QPSK15M	26765	1	37	Bottom Side	10	Ant31	1	25.00	24.54	-0.08	0.193	0.108	0.214
L437	LTE B26	QPSK15M	26865	36	0	Front Side	10	Ant31	1	24.00	23.38	0.02	0.101	0.066	0.117
L438	LTE B26	QPSK15M	26865	36	0	Back Side	10	Ant31	1	24.00	23.38	0.04	0.180	0.114	0.208
L439	LTE B26	QPSK15M	26865	36	0	Left Side	10	Ant31	1	24.00	23.38	0.04	0.083	0.058	0.096
L440	LTE B26	QPSK15M	26865	36	0	Right Side	10	Ant31	1	24.00	23.38	0.13	0.059	0.040	0.068
L441	LTE B26	QPSK15M	26865	36	0	Top Side	10	Ant31	1	24.00	23.38	0	0.008	0.002	0.009
L442	LTE B26	QPSK15M	26865	36	0	Bottom Side	10	Ant31	1	24.00	23.38	-0.05	0.183	0.102	0.211
L443	LTE B26	QPSK15M	26865	1	37	Back Side	10	Ant31	1	25.00	24.44	0.07	0.245	0.152	0.279
L444	LTE B26	QPSK15M	26965	1	37	Back Side	10	Ant31	1	25.00	24.30	-0.03	0.270	0.166	0.317
L445	LTE B26	QPSK15M	26965	1	37	Back Side	10	Ant31	2	25.00	24.30	-0.6	0.261	0.162	0.307

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (mm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
L446	LTE B38	QPSK20M	38000	1	50	Front Side	10	Ant13	1	18.00	17.54	0.05	0.127	0.059	0.141
L447	LTE B38	QPSK20M	38000	1	50	Back Side	10	Ant13	1	18.00	17.54	-0.15	0.481	0.208	0.535
L448	LTE B38	QPSK20M	38000	1	50	Left Side	10	Ant13	1	18.00	17.54	0.11	0.081	0.038	0.090
L449	LTE B38	QPSK20M	38000	1	50	Right Side	10	Ant13	1	18.00	17.54	-0.09	0.002	0.001	0.003
L450	LTE B38	QPSK20M	38000	1	50	Top Side	10	Ant13	1	18.00	17.54	-0.11	0.484	0.208	0.538
L451	LTE B38	QPSK20M	38000	1	50	Bottom Side	10	Ant13	1	18.00	17.54	0.16	0.011	0.004	0.012
L452	LTE B38	QPSK20M	38150	50	0	Front Side	10	Ant13	1	18.00	17.39	-0.02	0.112	0.055	0.129
L453	LTE B38	QPSK20M	38150	50	0	Back Side	10	Ant13	1	18.00	17.39	-0.04	0.413	0.184	0.476
L454	LTE B38	QPSK20M	38150	50	0	Left Side	10	Ant13	1	18.00	17.39	-0.19	0.069	0.034	0.080
L455	LTE B38	QPSK20M	38150	50	0	Right Side	10	Ant13	1	18.00	17.39	0.06	0.003	0.001	0.003
L456	LTE B38	QPSK20M	38150	50	0	Top Side	10	Ant13	1	18.00	17.39	0.01	0.490	0.211	0.564
L457	LTE B38	QPSK20M	38150	50	0	Bottom Side	10	Ant13	1	18.00	17.39	0.04	0.007	0.003	0.008
L458	LTE B38	QPSK20M	37850	50	25	Top Side	10	Ant13	1	18.00	17.29	0.12	0.472	0.210	0.556
L459	LTE B38	QPSK20M	38000	50	0	Top Side	10	Ant13	1	18.00	17.39	0.08	0.480	0.205	0.552
L460	LTE B38	QPSK20M	38150	50	0	Top Side	10	Ant13	2	18.00	17.33	-0.18	0.481	0.207	0.561
L461	LTE B38	QPSK20M	38150	1	50	Front Side	10	Ant31	1	23.50	23.26	0.04	0.177	0.096	0.187
L462	LTE B38	QPSK20M	38150	1	50	Back Side	10	Ant31	1	23.50	23.26	-0.02	0.314	0.163	0.332
L463	LTE B38	QPSK20M	38150	1	50	Left Side	10	Ant31	1	23.50	23.26	0.05	0.039	0.022	0.041
L464	LTE B38	QPSK20M	38150	1	50	Right Side	10	Ant31	1	23.50	23.26	-0.06	0.155	0.084	0.164
L465	LTE B38	QPSK20M	38150	1	50	Top Side	10	Ant31	1	23.50	23.26	0.03	0.027	0.013	0.029
L466	LTE B38	QPSK20M	38150	1	50	Bottom Side	10	Ant31	1	23.50	23.26	-0.13	0.179	0.084	0.189
L467	LTE B38	QPSK20M	38150	50	25	Front Side	10	Ant31	1	22.50	22.08	-0.12	0.189	0.102	0.208
L468	LTE B38	QPSK20M	38150	50	25	Back Side	10	Ant31	1	22.50	22.18	0.16	0.306	0.156	0.329
L469	LTE B38	QPSK20M	38150	50	25	Left Side	10	Ant31	1	22.50	22.18	0.13	0.047	0.024	0.051
L470	LTE B38	QPSK20M	38150	50	25	Right Side	10	Ant31	1	22.50	22.18	-0.03	0.145	0.080	0.156
L471	LTE B38	QPSK20M	38150	50	25	Top Side	10	Ant31	1	22.50	22.18	0.02	0.023	0.013	0.025
L472	LTE B38	QPSK20M	38150	50	25	Bottom Side	10	Ant31	1	22.50	22.18	0.09	0.177	0.081	0.190
L473	LTE B38	QPSK20M	37850	1	50	Back Side	10	Ant31	1	23.50	23.12	-0.03	0.302	0.156	0.330
L474	LTE B38	QPSK20M	38000	1	0	Back Side	10	Ant31	1	23.50	23.21	-0.13	0.296	0.154	0.316
L475	LTE B38	QPSK20M	38150	1	50	Back Side	10	Ant31	2	23.50	23.26	0.15	0.308	0.161	0.325
L506	LTE B41	QPSK20M	40620	1	50	Front Side	10	Ant13	1	17.90	17.35	-0.04	0.122	0.057	0.138
L507	LTE B41	QPSK20M	40620	1	50	Back Side	10	Ant13	1	17.90	17.45	0.12	0.436	0.195	0.484
L508	LTE B41	QPSK20M	40620	1	50	Left Side	10	Ant13	1	17.90	17.45	0.02	0.059	0.0303	0.065
L509	LTE B41	QPSK20M	40620	1	50	Right Side	10	Ant13	1	17.90	17.45	0	<0.001	<0.001	<0.001
L510	LTE B41	QPSK20M	40620	1	50	Top Side	10	Ant13	1	17.90	17.45	-0.02	0.465	0.201	0.516
L511	LTE B41	QPSK20M	40620	1	50	Bottom Side	10	Ant13	1	17.90	17.45	0.13	0.003	0.001	0.003
L512	LTE B41	QPSK20M	41055	50	0	Front Side	10	Ant13	1	17.90	17.17	0.14	0.102	0.048	0.121
L513	LTE B41	QPSK20M	41055	50	0	Back Side	10	Ant13	1	17.90	17.17	0.08	0.395	0.165	0.468
L514	LTE B41	QPSK20M	41055	50	0	Left Side	10	Ant13	1	17.90	17.17	0.08	0.058	0.0313	0.069
L515	LTE B41	QPSK20M	41055	50	0	Right Side	10	Ant13	1	17.90	17.17	-0.01	<0.001	<0.001	<0.001
L516	LTE B41	QPSK20M	41055	50	0	Top Side	10	Ant13	1	17.90	17.17	-0.05	0.431	0.179	0.510
L517	LTE B41	QPSK20M	41055	50	0	Bottom Side	10	Ant13	1	17.90	17.17	0.11	0.009	0.003	0.011
L518	LTE B41	QPSK20M	39750	1	50	Top Side	10	Ant13	1	17.90	17.03	-0.1	0.419	0.182	0.512
L519	LTE B41	QPSK20M	40185	1	50	Top Side	10	Ant13	1	17.90	16.62	0.15	0.371	0.16	0.499
L520	LTE B41	QPSK20M	41055	1	0	Top Side	10	Ant13	1	17.90	17.17	-0.11	0.425	0.183	0.502
L521	LTE B41	QPSK20M	41490	1	0	Top Side	10	Ant13	1	17.90	17.11	0.08	0.365	0.155	0.438
L522	LTE B41	QPSK20M	40620	1	50	Top Side	10	Ant13	2	17.90	17.45	0.01	0.455	0.196	0.505

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (mm)	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
L523	LTE B41	QPSK20M	40620	1	50	Front Side	10	Ant31	1	23.40	22.95	0.15	0.164	0.089	0.182
L524	LTE B41	QPSK20M	40620	1	50	Back Side	10	Ant31	1	23.40	22.95	0.13	0.311	0.163	0.345
L525	LTE B41	QPSK20M	40620	1	50	Left Side	10	Ant31	1	23.40	22.95	0.17	0.0263	0.0113	0.029
L526	LTE B41	QPSK20M	40620	1	50	Right Side	10	Ant31	1	23.40	22.95	0.09	0.129	0.071	0.143
L527	LTE B41	QPSK20M	40620	1	50	Top Side	10	Ant31	1	23.40	22.95	0.05	0.031	0.013	0.034
L528	LTE B41	QPSK20M	40620	1	50	Bottom Side	10	Ant31	1	23.40	22.95	-0.12	0.160	0.074	0.177
L529	LTE B41	QPSK20M	40620	50	25	Front Side	10	Ant31	1	22.40	22.25	-0.1	0.137	0.0758	0.142
L530	LTE B41	QPSK20M	40620	50	25	Back Side	10	Ant31	1	22.40	22.25	-0.01	0.300	0.158	0.311
L531	LTE B41	QPSK20M	40620	50	25	Left Side	10	Ant31	1	22.40	22.25	0.16	0.034	0.0199	0.035
L532	LTE B41	QPSK20M	40620	50	25	Right Side	10	Ant31	1	22.40	22.25	-0.19	0.144	0.0786	0.149
L533	LTE B41	QPSK20M	40620	50	25	Top Side	10	Ant31	1	22.40	22.25	0.09	0.025	0.011	0.026
L534	LTE B41	QPSK20M	40620	50	25	Bottom Side	10	Ant31	1	22.40	22.25	0.19	0.161	0.0748	0.167
L535	LTE B41	QPSK20M	39750	1	50	Back Side	10	Ant31	1	23.40	22.66	0.17	0.284	0.152	0.337
L536	LTE B41	QPSK20M	40185	1	0	Back Side	10	Ant31	1	23.40	22.48	-0.15	0.263	0.146	0.325
L537	LTE B41	QPSK20M	41055	1	50	Back Side	10	Ant31	1	23.40	22.64	-0.05	0.261	0.141	0.311
L538	LTE B41	QPSK20M	41490	1	50	Back Side	10	Ant31	1	23.40	22.85	-0.19	0.269	0.146	0.305
L539	LTE B41	QPSK20M	40620	1	50	Back Side	10	Ant31	2	23.40	22.95	0.09	0.308	0.161	0.342
L540	LTE B66	QPSK20M	132322	1	0	Front Side	10	Ant13	1	20.00	19.27	-0.13	0.315	0.169	0.373
L541	LTE B66	QPSK20M	132322	1	0	Back Side	10	Ant13	1	20.00	19.27	0.17	0.346	0.195	0.410
L542	LTE B66	QPSK20M	132322	1	0	Left Side	10	Ant13	1	20.00	19.27	-0.09	0.068	0.041	0.081
L543	LTE B66	QPSK20M	132322	1	0	Right Side	10	Ant13	1	20.00	19.27	0.09	0.031	0.049	0.036
L544	LTE B66	QPSK20M	132322	1	0	Top Side	10	Ant13	1	20.00	19.27	-0.05	0.463	0.233	0.548
L545	LTE B66	QPSK20M	132322	1	0	Bottom Side	10	Ant13	1	20.00	19.27	-0.01	0.014	0.008	0.017
L546	LTE B66	QPSK20M	132572	50	0	Front Side	10	Ant13	1	20.00	19.24	0.07	0.280	0.148	0.334
L547	LTE B66	QPSK20M	132572	50	0	Back Side	10	Ant13	1	20.00	19.24	0.16	0.335	0.189	0.399
L548	LTE B66	QPSK20M	132572	50	0	Left Side	10	Ant13	1	20.00	19.24	-0.03	0.056	0.033	0.067
L549	LTE B66	QPSK20M	132572	50	0	Right Side	10	Ant13	1	20.00	19.24	0.1	0.029	0.017	0.035
L550	LTE B66	QPSK20M	132572	50	0	Top Side	10	Ant13	1	20.00	19.24	0.19	0.455	0.233	0.542
L551	LTE B66	QPSK20M	132572	50	0	Bottom Side	10	Ant13	1	20.00	19.24	-0.05	0.007	0.004	0.008
L552	LTE B66	QPSK20M	132072	1	50	Top Side	10	Ant13	1	20.00	19.26	-0.06	0.411	0.209	0.487
L553	LTE B66	QPSK20M	132572	1	50	Top Side	10	Ant13	1	20.00	19.25	0.12	0.430	0.223	0.511
L554	LTE B66	QPSK20M	132322	1	0	Top Side	10	Ant13	2	20.00	19.27	0.1	0.434	0.226	0.513
L555	LTE B66	QPSK20M	132322	1	0	Front Side	10	Ant31	1	19.50	18.49	-0.04	0.078	0.047	0.099
L556	LTE B66	QPSK20M	132322	1	0	Back Side	10	Ant31	1	19.50	18.49	-0.13	0.152	0.091	0.192
L557	LTE B66	QPSK20M	132322	1	0	Left Side	10	Ant31	1	19.50	18.49	0.05	0.019	0.012	0.023
L558	LTE B66	QPSK20M	132322	1	0	Right Side	10	Ant31	1	19.50	18.49	0.03	0.017	0.030	0.021
L559	LTE B66	QPSK20M	132322	1	0	Top Side	10	Ant31	1	19.50	18.49	0.08	0.008	0.005	0.010
L560	LTE B66	QPSK20M	132322	1	0	Bottom Side	10	Ant31	1	19.50	18.49	-0.09	0.270	0.151	0.340
L561	LTE B66	QPSK20M	132322	50	0	Front Side	10	Ant31	1	19.50	18.43	-0.17	0.072	0.044	0.092
L562	LTE B66	QPSK20M	132322	50	0	Back Side	10	Ant31	1	19.50	18.43	-0.07	0.150	0.088	0.192
L563	LTE B66	QPSK20M	132322	50	0	Left Side	10	Ant31	1	19.50	18.43	0.04	0.018	0.012	0.023
L564	LTE B66	QPSK20M	132322	50	0	Right Side	10	Ant31	1	19.50	18.43	0.05	0.030	0.018	0.039
L565	LTE B66	QPSK20M	132322	50	0	Top Side	10	Ant31	1	19.50	18.43	0.09	0.009	0.005	0.011
L566	LTE B66	QPSK20M	132322	50	0	Bottom Side	10	Ant31	1	19.50	18.43	-0.1	0.245	0.140	0.314
L567	LTE B66	QPSK20M	132072	1	50	Bottom Side	10	Ant31	1	19.50	18.44	-0.09	0.218	0.123	0.278
L568	LTE B66	QPSK20M	132572	1	99	Bottom Side	10	Ant31	1	19.50	18.33	0.09	0.200	0.115	0.262
L560	LTE B66	QPSK20M	132322	1	0	Bottom Side	10	Ant31	2	19.50	18.49	0.05	0.253	0.142	0.319

Note: The value with boldface is the maximum SAR Value of each test band.

4. Hotspot SAR test results of WiFi 2.4G

Test No.	Band	Mode	Channel	Test Position	Separation Distance (mm)	Data Rate	Duty Cycle (%)	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
W79	WiFi 2.4G	802.11b	11	Front Side	10	1M	97.89	19.50	19.15	0.07	0.184	0.099	0.204
W80	WiFi 2.4G	802.11b	11	Back Side	10	1M	97.89	19.50	19.15	-0.06	0.627	0.343	0.694
W81	WiFi 2.4G	802.11b	11	Left Side	10	1M	97.89	19.50	19.15	0.04	0.039	0.018	0.043
W82	WiFi 2.4G	802.11b	11	Right Side	10	1M	97.89	19.50	19.15	-0.08	0.206	0.113	0.228
W83	WiFi 2.4G	802.11b	11	Top Side	10	1M	97.89	19.50	19.15	0.11	0.175	0.095	0.194
W84	WiFi 2.4G	802.11b	11	Bottom Side	10	1M	97.89	19.50	19.15	-0.03	0.019	0.011	0.021
W85	WiFi 2.4G	802.11b	1	Back Side	10	1M	97.89	19.50	18.89	0.06	0.536	0.291	0.630
W86	WiFi 2.4G	802.11b	6	Back Side	10	1M	97.89	19.50	18.82	-0.04	0.641	0.349	0.766

Note: The value with boldface is the maximum SAR Value of each test band.

5. Hotspot SAR test results of BT

Test No.	Band	Mode	Channel	Test Position	Separation Distance (mm)	Data Rate	Duty Cycle (%)	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
B07	BT	DH5	78	Front Side	10	1M	76.30	14.00	12.60	-0.09	0.032	0.017	0.058
B08	BT	DH5	78	Back Side	10	1M	76.30	14.00	12.60	0.04	0.115	0.062	0.208
B09	BT	DH5	78	Left Side	10	1M	76.30	14.00	12.60	-0.03	0.024	0.014	0.044
B10	BT	DH5	78	Right Side	10	1M	76.30	14.00	12.60	0.01	0.035	0.018	0.062
B11	BT	DH5	78	Top Side	10	1M	76.30	14.00	12.60	0.02	0.031	0.017	0.056
B12	BT	DH5	78	Bottom Side	10	1M	76.30	14.00	12.60	0.16	0.019	0.011	0.034
B13	BT	DH5	0	Back Side	10	1M	76.30	14.00	12.52	0.08	0.100	0.056	0.184
B14	BT	DH5	39	Back Side	10	1M	76.30	14.00	12.55	-0.04	0.103	0.056	0.189

Note: The value with boldface is the maximum SAR Value of each test band.

6. Hotspot SAR test results of WiFi 5G

Test No.	Band	Mode	Channel	Test Position	Separation Distance (mm)	Data Rate	Duty Cycle (%)	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)
W87	WiFi 5.2G UNII_1	802.11a	36	Front Side	10	6M	98.08	16.00	15.37	0.06	0.209	0.074	0.246
W88	WiFi 5.2G UNII_1	802.11a	36	Back Side	10	6M	98.08	16.00	15.37	0.05	0.540	0.206	0.637
W89	WiFi 5.2G UNII_1	802.11a	36	Left Side	10	6M	98.08	16.00	15.37	-0.08	0.045	0.017	0.053
W90	WiFi 5.2G UNII_1	802.11a	36	Right Side	10	6M	98.08	16.00	15.37	0.13	0.350	0.144	0.413
W91	WiFi 5.2G UNII_1	802.11a	36	Top Side	10	6M	98.08	16.00	15.37	0.06	0.482	0.174	0.568
W92	WiFi 5.2G UNII_1	802.11a	36	Bottom Side	10	6M	98.08	16.00	15.37	0.04	0.012	0.005	0.015
W93	WiFi 5.2G UNII_1	802.11a	48	Back Side	10	6M	98.08	16.00	15.12	0.08	0.495	0.187	0.618
W94	WiFi 5.3G UNII_2A	802.11a	64	Front Side	10	6M	98.08	16.00	15.42	0.07	0.150	0.056	0.175
W95	WiFi 5.3G UNII_2A	802.11a	64	Back Side	10	6M	98.08	16.00	15.42	-0.03	0.382	0.145	0.445
W96	WiFi 5.3G UNII_2A	802.11a	64	Left Side	10	6M	98.08	16.00	15.42	0.05	0.048	0.010	0.056
W97	WiFi 5.3G UNII_2A	802.11a	64	Right Side	10	6M	98.08	16.00	15.42	0.13	0.170	0.068	0.198
W98	WiFi 5.3G UNII_2A	802.11a	64	Top Side	10	6M	98.08	16.00	15.42	0.04	0.370	0.136	0.431
W99	WiFi 5.3G UNII_2A	802.11a	64	Bottom Side	10	6M	98.08	16.00	15.42	0.09	0.018	0.008	0.020
W100	WiFi 5.3G UNII_2A	802.11a	52	Back Side	10	6M	98.08	16.00	15.29	0.05	0.448	0.166	0.538
W101	WiFi 5.6G UNII_2C	802.11a	120	Front Side	10	6M	98.08	16.50	15.68	0.06	0.232	0.079	0.286
W102	WiFi 5.6G UNII_2C	802.11a	120	Back Side	10	6M	98.08	16.50	15.68	0.04	0.355	0.123	0.437
W103	WiFi 5.6G UNII_2C	802.11a	120	Left Side	10	6M	98.08	16.50	15.68	0.07	0.075	0.019	0.092
W104	WiFi 5.6G UNII_2C	802.11a	120	Right Side	10	6M	98.08	16.50	15.68	0.05	0.606	0.177	0.746
W105	WiFi 5.6G UNII_2C	802.11a	120	Top Side	10	6M	98.08	16.50	15.68	-0.01	0.188	0.066	0.232
W106	WiFi 5.6G UNII_2C	802.11a	120	Bottom Side	10	6M	98.08	16.50	15.68	-0.02	0.046	0.020	0.056
W107	WiFi 5.6G UNII_2C	802.11a	100	Right Side	10	6M	98.08	16.50	15.49	0.06	0.279	0.089	0.359
W108	WiFi 5.6G UNII_2C	802.11a	140	Right Side	10	6M	98.08	16.50	15.52	0.01	0.695	0.214	0.888
W109	WiFi 5.8G UNII_3	802.11a	149	Front Side	10	6M	98.08	16.50	15.72	0.11	0.206	0.065	0.251
W110	WiFi 5.8G UNII_3	802.11a	149	Back Side	10	6M	98.08	16.50	15.72	0.02	0.445	0.146	0.543
W111	WiFi 5.8G UNII_3	802.11a	149	Left Side	10	6M	98.08	16.50	15.72	0.04	0.039	0.007	0.048
W112	WiFi 5.8G UNII_3	802.11a	149	Right Side	10	6M	98.08	16.50	15.72	0.13	0.649	0.200	0.792
W113	WiFi 5.8G UNII_3	802.11a	149	Top Side	10	6M	98.08	16.50	15.72	-0.06	0.274	0.095	0.334
W114	WiFi 5.8G UNII_3	802.11a	149	Bottom Side	10	6M	98.08	16.50	15.72	0.08	0.054	0.024	0.066
W115	WiFi 5.8G UNII_3	802.11a	157	Right Side	10	6M	98.08	16.50	15.52	0.04	0.615	0.191	0.786
W116	WiFi 5.8G UNII_3	802.11a	165	Right Side	10	6M	98.08	16.50	15.47	0.03	0.516	0.161	0.667

Note: The value with boldface is the maximum SAR Value of each test band.

Note: Per KDB248227 D01, the highest SAR measured for the initial test position or initial test configuration should be used to determine SAR test exclusion according to the sum of 1-g SAR and SAR peak to location ratio provisions in KDB 447498. In addition, a test lab may also choose to perform standalone SAR measurements for test positions and 802.11 configurations that are not required by the initial test position or initial test configuration procedures and apply the results to determine simultaneous transmission SAR test exclusion, according to sum of 1-g and SAR peak to location ratio requirements to reduce the number of simultaneous transmission SAR measurements.

6.2.4 SAR MEASUREMENT RESULT OF PRODUCT SPECIFIC 10-G SAR

Per KDB648474D04, when hotspot mode applies, product specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Separation distance: 10mm

DSI4

Test No.	Band	Mode	Channel	Test Position	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 10g SAR (W/kg)	product specific 10-g SAR Exclusion
G27	GSM 850	GPRS 2 TX	128	Front Side	Ant 31	1	32.00	30.54	0.17	0.104	0.066	0.092	YES
G28	GSM 850	GPRS 2 TX	128	Back Side	Ant 31	1	32.00	30.54	-0.06	0.207	0.127	0.178	YES
G29	GSM 850	GPRS 2 TX	128	Left Side	Ant 31	1	32.00	30.54	-0.12	0.055	0.037	0.052	YES
G30	GSM 850	GPRS 2 TX	128	Right Side	Ant 31	1	32.00	30.54	0.09	0.040	0.025	0.035	YES
G31	GSM 850	GPRS 2 TX	128	Top Side	Ant 31	1	32.00	30.54	0.06	0.008	0.005	0.007	YES
G32	GSM 850	GPRS 2 TX	128	Bottom Side	Ant 31	1	32.00	30.54	0.04	0.162	0.088	0.123	YES
G33	GSM 850	GPRS 2 TX	190	Back Side	Ant 31	1	32.00	30.21	0.01	0.310	0.190	0.287	YES
G34	GSM 850	GPRS 2 TX	251	Back Side	Ant 31	1	32.00	30.20	-0.05	0.402	0.247	0.374	YES
G35	GSM 850	GPRS 2 TX	251	Back Side	Ant 31	2	32.00	30.20	0.08	0.390	0.235	0.356	YES
G37	GSM 1900	GPRS 2 TX	661	Front Side	Ant 31	1	26.50	25.40	0	0.307	0.130	0.167	YES
G38	GSM 1900	GPRS 2 TX	661	Back Side	Ant 31	1	26.50	25.40	0.12	0.500	0.223	0.287	YES
G39	GSM 1900	GPRS 2 TX	661	Left Side	Ant 31	1	26.50	25.40	0.07	0.081	0.035	0.045	YES
G40	GSM 1900	GPRS 2 TX	661	Right Side	Ant 31	1	26.50	25.40	0.16	0.161	0.065	0.084	YES
G41	GSM 1900	GPRS 2 TX	661	Top Side	Ant 31	1	26.50	25.40	-0.1	<0.001	<0.001	<0.001	YES
G42	GSM 1900	GPRS 2 TX	661	Bottom Side	Ant 31	1	26.50	25.40	0	0.654	0.272	0.350	YES
G43	GSM 1900	GPRS 2 TX	512	Bottom Side	Ant 31	1	26.50	25.12	-0.13	0.612	0.248	0.341	YES
G44	GSM 1900	GPRS 2 TX	810	Bottom Side	Ant 31	1	26.50	25.25	-0.14	0.607	0.241	0.321	YES
G45	GSM 1900	GPRS 2 TX	661	Bottom Side	Ant 31	2	26.50	25.40	0.19	0.620	0.260	0.335	YES
U60	UMTS B2	RMC12.2K	9400	Front Side	Ant 13	1	18.50	17.80	-0.06	0.174	0.089	0.105	YES
U61	UMTS B2	RMC12.2K	9400	Back Side	Ant 13	1	18.50	17.80	0.1	0.264	0.137	0.161	YES
U62	UMTS B2	RMC12.2K	9400	Left Side	Ant 13	1	18.50	17.80	0	0.041	0.024	0.028	YES
U63	UMTS B2	RMC12.2K	9400	Right Side	Ant 13	1	18.50	17.80	0.02	0.004	0.002	0.002	YES
U64	UMTS B2	RMC12.2K	9400	Top Side	Ant 13	1	18.50	17.80	0.05	0.336	0.165	0.194	YES
U65	UMTS B2	RMC12.2K	9400	Bottom Side	Ant 13	1	18.50	17.80	0.06	0.006	0.003	0.004	YES
U66	UMTS B2	RMC12.2K	9262	Top Side	Ant 13	1	18.50	17.53	0.05	0.318	0.157	0.196	YES
U67	UMTS B2	RMC12.2K	9538	Top Side	Ant 13	1	18.50	17.44	0.03	0.355	0.175	0.223	YES
U68	UMTS B2	RMC12.2K	9400	Top Side	Ant 13	2	18.50	17.80	-0.17	0.351	0.166	0.195	YES
U70	UMTS B2	RMC12.2K	9400	Front Side	Ant 31	1	20.00	18.83	-0.12	0.148	0.092	0.120	YES
U71	UMTS B2	RMC12.2K	9400	Back Side	Ant 31	1	20.00	18.83	-0.05	0.290	0.174	0.228	YES
U72	UMTS B2	RMC12.2K	9400	Left Side	Ant 31	1	20.00	18.83	0	0.040	0.025	0.033	YES
U73	UMTS B2	RMC12.2K	9400	Right Side	Ant 31	1	20.00	18.83	0.09	0.078	0.043	0.056	YES
U74	UMTS B2	RMC12.2K	9400	Top Side	Ant 31	1	20.00	18.83	0.15	0.005	0.003	0.004	YES
U75	UMTS B2	RMC12.2K	9400	Bottom Side	Ant 31	1	20.00	18.83	0.17	0.313	0.181	0.237	YES
U76	UMTS B2	RMC12.2K	9262	Bottom Side	Ant 31	1	20.00	18.63	0.01	0.362	0.209	0.287	YES
U77	UMTS B2	RMC12.2K	9538	Bottom Side	Ant 31	1	20.00	18.74	-0.17	0.306	0.176	0.235	YES
U78	UMTS B2	RMC12.2K	9262	Bottom Side	Ant 31	2	20.00	18.63	0.01	0.385	0.217	0.297	YES

Test No.	Band	Mode	Channel	Test Position	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 10g SAR (W/kg)	product specific 10-g SAR Exclusion
U80	UMTS B4	RMC12.2K	1413	Front Side	Ant 13	1	20.00	18.63	-0.07	0.326	0.174	0.239	YES
U81	UMTS B4	RMC12.2K	1413	Back Side	Ant 13	1	20.00	18.63	-0.09	0.366	0.202	0.277	YES
U82	UMTS B4	RMC12.2K	1413	Left Side	Ant 13	1	20.00	18.63	0.14	0.064	0.038	0.052	YES
U83	UMTS B4	RMC12.2K	1413	Right Side	Ant 13	1	20.00	18.63	-0.07	0.009	0.005	0.007	YES
U84	UMTS B4	RMC12.2K	1413	Top Side	Ant 13	1	20.00	18.63	0.04	0.470	0.237	0.325	YES
U85	UMTS B4	RMC12.2K	1413	Bottom Side	Ant 13	1	20.00	18.63	0.08	<0.001	<0.001	<0.001	YES
U86	UMTS B4	RMC12.2K	1312	Top Side	Ant 13	1	20.00	18.54	-0.08	0.409	0.215	0.301	YES
U87	UMTS B4	RMC12.2K	1513	Top Side	Ant 13	1	20.00	18.48	0.18	0.426	0.227	0.322	YES
U88	UMTS B4	RMC12.2K	1413	Top Side	Ant 13	2	20.00	18.63	-0.07	0.436	0.229	0.314	YES
U90	UMTS B4	RMC12.2K	1413	Front Side	Ant 31	1	20.00	19.08	0.11	0.103	0.060	0.074	YES
U91	UMTS B4	RMC12.2K	1413	Back Side	Ant 31	1	20.00	19.08	0.17	0.201	0.117	0.145	YES
U92	UMTS B4	RMC12.2K	1413	Left Side	Ant 31	1	20.00	19.08	0.17	0.012	0.006	0.007	YES
U93	UMTS B4	RMC12.2K	1413	Right Side	Ant 31	1	20.00	19.08	0.06	0.037	0.021	0.026	YES
U94	UMTS B4	RMC12.2K	1413	Top Side	Ant 31	1	20.00	19.08	-0.07	<0.001	<0.001	<0.001	YES
U95	UMTS B4	RMC12.2K	1413	Bottom Side	Ant 31	1	20.00	19.08	-0.15	0.262	0.143	0.177	YES
U96	UMTS B4	RMC12.2K	1312	Bottom Side	Ant 31	1	20.00	19.04	0.18	0.319	0.178	0.222	YES
U97	UMTS B4	RMC12.2K	1513	Bottom Side	Ant 31	1	20.00	18.91	0.03	0.295	0.162	0.208	YES
U98	UMTS B4	RMC12.2K	1312	Bottom Side	Ant 31	2	20.00	19.04	-0.09	0.310	0.171	0.213	YES
U100	UMTS B5	RMC12.2K	4182	Front Side	Ant 13	1	23.00	22.02	0.08	0.143	0.094	0.118	YES
U101	UMTS B5	RMC12.2K	4182	Back Side	Ant 13	1	23.00	22.02	0.03	0.229	0.149	0.187	YES
U102	UMTS B5	RMC12.2K	4182	Left Side	Ant 13	1	23.00	22.02	0.06	0.051	0.034	0.043	YES
U103	UMTS B5	RMC12.2K	4182	Right Side	Ant 13	1	23.00	22.02	0.18	0.063	0.043	0.054	YES
U104	UMTS B5	RMC12.2K	4182	Top Side	Ant 13	1	23.00	22.02	0.19	0.191	0.108	0.135	YES
U105	UMTS B5	RMC12.2K	4182	Bottom Side	Ant 13	1	23.00	22.02	0.09	0.011	0.007	0.009	YES
U106	UMTS B5	RMC12.2K	4132	Back Side	Ant 13	1	23.00	21.87	0.09	0.206	0.112	0.145	YES
U107	UMTS B5	RMC12.2K	4233	Back Side	Ant 13	1	23.00	21.89	-0.05	0.258	0.168	0.217	YES
U108	UMTS B5	RMC12.2K	4233	Back Side	Ant 13	2	23.00	21.89	0.14	0.254	0.167	0.216	YES
U110	UMTS B5	RMC12.2K	4182	Front Side	Ant 31	1	24.00	23.10	0.12	0.123	0.078	0.096	YES
U111	UMTS B5	RMC12.2K	4182	Back Side	Ant 31	1	24.00	23.10	-0.18	0.224	0.137	0.169	YES
U112	UMTS B5	RMC12.2K	4182	Left Side	Ant 31	1	24.00	23.10	0.03	0.079	0.053	0.065	YES
U113	UMTS B5	RMC12.2K	4182	Right Side	Ant 31	1	24.00	23.10	-0.04	0.072	0.049	0.060	YES
U114	UMTS B5	RMC12.2K	4182	Top Side	Ant 31	1	24.00	23.10	0.06	0.010	0.007	0.009	YES
U115	UMTS B5	RMC12.2K	4182	Bottom Side	Ant 31	1	24.00	23.10	0.05	0.212	0.112	0.138	YES
U116	UMTS B5	RMC12.2K	4132	Back Side	Ant 31	1	24.00	23.02	0.14	0.188	0.117	0.147	YES
U117	UMTS B5	RMC12.2K	4233	Back Side	Ant 31	1	24.00	22.98	-0.05	0.237	0.145	0.183	YES
U118	UMTS B5	RMC12.2K	4233	Back Side	Ant 31	2	24.00	22.98	0.07	0.229	0.142	0.180	YES

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 10g SAR (W/kg)	product specific 10-g SAR Exclusion
L270	LTE B2	QPSK20M	18700	1	50	Front Side	Ant13	1	18.50	17.57	-0.09	0.130	0.071	0.088	YES
L271	LTE B2	QPSK20M	18700	1	50	Back Side	Ant13	1	18.50	17.57	-0.18	0.198	0.105	0.130	YES
L272	LTE B2	QPSK20M	18700	1	50	Left Side	Ant13	1	18.50	17.57	-0.13	0.034	0.020	0.024	YES
L273	LTE B2	QPSK20M	18700	1	50	Right Side	Ant13	1	18.50	17.57	0.02	0.020	0.012	0.015	YES
L274	LTE B2	QPSK20M	18700	1	50	Top Side	Ant13	1	18.50	17.57	0.03	0.277	0.139	0.172	YES
L275	LTE B2	QPSK20M	18700	1	50	Bottom Side	Ant13	1	18.50	17.57	0.06	0.007	0.004	0.005	YES
L276	LTE B2	QPSK20M	18700	50	0	Front Side	Ant13	1	18.50	17.41	0.01	0.138	0.073	0.094	YES
L277	LTE B2	QPSK20M	18700	50	0	Back Side	Ant13	1	18.50	17.41	-0.18	0.205	0.106	0.136	YES
L278	LTE B2	QPSK20M	18700	50	0	Left Side	Ant13	1	18.50	17.41	0.01	0.039	0.020	0.026	YES
L279	LTE B2	QPSK20M	18700	50	0	Right Side	Ant13	1	18.50	17.41	-0.16	0.020	0.012	0.015	YES
L280	LTE B2	QPSK20M	18700	50	0	Top Side	Ant13	1	18.50	17.41	-0.14	0.325	0.162	0.208	YES
L281	LTE B2	QPSK20M	18700	50	0	Bottom Side	Ant13	1	18.50	17.41	0.05	0.007	0.004	0.005	YES
L282	LTE B2	QPSK20M	18900	50	25	Top Side	Ant13	1	18.50	17.15	-0.02	0.291	0.144	0.196	YES
L283	LTE B2	QPSK20M	19100	50	0	Top Side	Ant13	1	18.50	17.07	-0.01	0.287	0.144	0.200	YES
L284	LTE B2	QPSK20M	18700	50	0	Top Side	Ant13	2	18.50	17.41	0.05	0.286	0.143	0.184	YES
L285	LTE B2	QPSK20M	18700	1	50	Front Side	Ant31	1	20.00	19.06	-0.03	0.138	0.085	0.106	YES
L286	LTE B2	QPSK20M	18700	1	50	Back Side	Ant31	1	20.00	19.06	0.1	0.269	0.160	0.199	YES
L287	LTE B2	QPSK20M	18700	1	50	Left Side	Ant31	1	20.00	19.06	-0.14	0.038	0.025	0.031	YES
L288	LTE B2	QPSK20M	18700	1	50	Right Side	Ant31	1	20.00	19.06	0.07	0.077	0.043	0.053	YES
L289	LTE B2	QPSK20M	18700	1	50	Top Side	Ant31	1	20.00	19.06	0.02	0.008	0.005	0.006	YES
L290	LTE B2	QPSK20M	18700	1	50	Bottom Side	Ant31	1	20.00	19.06	0.12	0.369	0.207	0.257	YES
L291	LTE B2	QPSK20M	18900	50	0	Front Side	Ant31	1	20.00	18.99	-0.04	0.138	0.083	0.105	YES
L292	LTE B2	QPSK20M	18900	50	0	Back Side	Ant31	1	20.00	18.99	0.1	0.241	0.145	0.183	YES
L293	LTE B2	QPSK20M	18900	50	0	Left Side	Ant31	1	20.00	18.99	0.02	0.044	0.026	0.033	YES
L294	LTE B2	QPSK20M	18900	50	0	Right Side	Ant31	1	20.00	18.99	0.09	0.051	0.028	0.036	YES
L295	LTE B2	QPSK20M	18900	50	0	Top Side	Ant31	1	20.00	18.99	0.03	0.012	0.007	0.009	YES
L296	LTE B2	QPSK20M	18900	50	0	Bottom Side	Ant31	1	20.00	18.99	0.01	0.386	0.218	0.275	YES
L297	LTE B2	QPSK20M	18700	50	0	Bottom Side	Ant31	1	20.00	18.96	-0.05	0.325	0.187	0.238	YES
L298	LTE B2	QPSK20M	19100	50	0	Bottom Side	Ant31	1	20.00	18.75	0.16	0.274	0.159	0.212	YES
L299	LTE B2	QPSK20M	18900	50	0	Bottom Side	Ant31	2	20.00	18.99	0.11	0.367	0.210	0.265	YES
L300	LTE B4	QPSK20M	20300	1	0	Front Side	Ant13	1	19.50	18.95	0.12	0.252	0.131	0.149	YES
L301	LTE B4	QPSK20M	20300	1	0	Back Side	Ant13	1	19.50	18.95	-0.18	0.282	0.155	0.176	YES
L302	LTE B4	QPSK20M	20300	1	0	Left Side	Ant13	1	19.50	18.95	-0.13	0.045	0.026	0.030	YES
L303	LTE B4	QPSK20M	20300	1	0	Right Side	Ant13	1	19.50	18.95	0.02	0.028	0.017	0.020	YES
L304	LTE B4	QPSK20M	20300	1	0	Top Side	Ant13	1	19.50	18.95	-0.13	0.433	0.219	0.249	YES
L305	LTE B4	QPSK20M	20300	1	0	Bottom Side	Ant13	1	19.50	18.95	-0.17	0.013	0.007	0.008	YES
L306	LTE B4	QPSK20M	20175	50	0	Front Side	Ant13	1	19.50	18.29	-0.14	0.245	0.129	0.171	YES
L307	LTE B4	QPSK20M	20175	50	0	Back Side	Ant13	1	19.50	18.29	0.04	0.260	0.143	0.189	YES
L308	LTE B4	QPSK20M	20175	50	0	Left Side	Ant13	1	19.50	18.29	0.16	0.046	0.026	0.035	YES
L309	LTE B4	QPSK20M	20175	50	0	Right Side	Ant13	1	19.50	18.29	-0.2	0.026	0.016	0.021	YES
L310	LTE B4	QPSK20M	20175	50	0	Top Side	Ant13	1	19.50	18.29	-0.07	0.368	0.187	0.247	YES
L311	LTE B4	QPSK20M	20175	50	0	Bottom Side	Ant13	1	19.50	18.29	-0.13	0.012	0.008	0.010	YES
L312	LTE B4	QPSK20M	20050	1	0	Top Side	Ant13	1	19.50	18.55	0.13	0.294	0.143	0.178	YES
L313	LTE B4	QPSK20M	20175	1	0	Top Side	Ant13	1	19.50	18.82	0.05	0.311	0.153	0.179	YES
L314	LTE B4	QPSK20M	20300	1	0	Top Side	Ant13	2	19.50	18.95	0.01	0.386	0.210	0.238	YES

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 10g SAR (W/kg)	product specific 10-g SAR Exclusion
L315	LTE B4	QPSK20M	20300	1	0	Front Side	Ant31	1	20.50	19.72	-0.07	0.100	0.062	0.074	YES
L316	LTE B4	QPSK20M	20300	1	0	Back Side	Ant31	1	20.50	19.72	0.03	0.190	0.111	0.133	YES
L317	LTE B4	QPSK20M	20300	1	0	Left Side	Ant31	1	20.50	19.72	-0.15	0.031	0.019	0.022	YES
L318	LTE B4	QPSK20M	20300	1	0	Right Side	Ant31	1	20.50	19.72	-0.16	0.035	0.020	0.023	YES
L319	LTE B4	QPSK20M	20300	1	0	Top Side	Ant31	1	20.50	19.72	0.04	0.009	0.006	0.007	YES
L320	LTE B4	QPSK20M	20300	1	0	Bottom Side	Ant31	1	20.50	19.72	-0.05	0.292	0.162	0.194	YES
L321	LTE B4	QPSK20M	20300	50	0	Front Side	Ant31	1	20.50	19.65	0.09	0.103	0.062	0.075	YES
L322	LTE B4	QPSK20M	20300	50	0	Back Side	Ant31	1	20.50	19.65	-0.02	0.201	0.117	0.142	YES
L323	LTE B4	QPSK20M	20300	50	0	Left Side	Ant31	1	20.50	19.65	0.06	0.023	0.014	0.017	YES
L324	LTE B4	QPSK20M	20300	50	0	Right Side	Ant31	1	20.50	19.65	-0.03	0.033	0.019	0.023	YES
L325	LTE B4	QPSK20M	20300	50	0	Top Side	Ant31	1	20.50	19.65	0.02	0.010	0.005	0.007	YES
L326	LTE B4	QPSK20M	20300	50	0	Bottom Side	Ant31	1	20.50	19.65	0.09	0.329	0.184	0.224	YES
L327	LTE B4	QPSK20M	20050	50	0	Bottom Side	Ant31	1	20.50	18.79	-0.08	0.260	0.144	0.213	YES
L328	LTE B4	QPSK20M	20175	50	25	Bottom Side	Ant31	1	20.50	18.88	0.05	0.315	0.177	0.257	YES
L329	LTE B4	QPSK20M	20300	50	0	Bottom Side	Ant31	2	20.50	19.65	-0.06	0.316	0.176	0.214	YES
L330	LTE B5	QPSK10M	20450	1	24	Front Side	Ant13	1	24.00	23.56	0.05	0.208	0.130	0.144	YES
L331	LTE B5	QPSK10M	20450	1	24	Back Side	Ant13	1	24.00	23.56	0.02	0.328	0.214	0.237	YES
L332	LTE B5	QPSK10M	20450	1	24	Left Side	Ant13	1	24.00	23.56	-0.01	0.089	0.059	0.065	YES
L333	LTE B5	QPSK10M	20450	1	24	Right Side	Ant13	1	24.00	23.56	-0.12	0.093	0.064	0.071	YES
L334	LTE B5	QPSK10M	20450	1	24	Top Side	Ant13	1	24.00	23.56	-0.18	0.230	0.120	0.133	YES
L335	LTE B5	QPSK10M	20450	1	24	Bottom Side	Ant13	1	24.00	23.56	0.07	0.012	0.008	0.009	YES
L336	LTE B5	QPSK10M	20525	25	0	Front Side	Ant13	1	23.00	22.36	-0.02	0.158	0.103	0.119	YES
L337	LTE B5	QPSK10M	20525	25	0	Back Side	Ant13	1	23.00	22.36	0.03	0.273	0.174	0.202	YES
L338	LTE B5	QPSK10M	20525	25	0	Left Side	Ant13	1	23.00	22.36	-0.18	0.071	0.047	0.055	YES
L339	LTE B5	QPSK10M	20525	25	0	Right Side	Ant13	1	23.00	22.36	0.17	0.089	0.059	0.068	YES
L340	LTE B5	QPSK10M	20525	25	0	Top Side	Ant13	1	23.00	22.36	-0.12	0.183	0.102	0.118	YES
L341	LTE B5	QPSK10M	20525	25	0	Bottom Side	Ant13	1	23.00	22.36	0.03	0.009	0.006	0.007	YES
L342	LTE B5	QPSK10M	20525	1	24	Back Side	Ant13	1	24.00	23.51	0.14	0.357	0.232	0.260	YES
L343	LTE B5	QPSK10M	20600	1	24	Back Side	Ant13	1	24.00	23.55	0.01	0.336	0.221	0.245	YES
L344	LTE B5	QPSK10M	20525	1	24	Back Side	Ant13	2	24.00	23.51	-0.05	0.351	0.229	0.256	YES
L345	LTE B5	QPSK10M	20525	1	24	Front Side	Ant31	1	24.00	23.00	0.11	0.128	0.077	0.097	YES
L346	LTE B5	QPSK10M	20525	1	24	Back Side	Ant31	1	24.00	23.00	0.01	0.254	0.137	0.172	YES
L347	LTE B5	QPSK10M	20525	1	24	Left Side	Ant31	1	24.00	23.00	0.06	0.121	0.077	0.097	YES
L348	LTE B5	QPSK10M	20525	1	24	Right Side	Ant31	1	24.00	23.00	0.07	0.072	0.046	0.058	YES
L349	LTE B5	QPSK10M	20525	1	24	Top Side	Ant31	1	24.00	23.00	0.01	0.008	0.006	0.008	YES
L350	LTE B5	QPSK10M	20525	1	24	Bottom Side	Ant31	1	24.00	23.00	-0.03	0.243	0.122	0.154	YES
L351	LTE B5	QPSK10M	20525	25	12	Front Side	Ant31	1	23.00	22.55	-0.18	0.132	0.079	0.088	YES
L352	LTE B5	QPSK10M	20525	25	12	Back Side	Ant31	1	23.00	22.55	-0.16	0.234	0.137	0.152	YES
L353	LTE B5	QPSK10M	20525	25	12	Left Side	Ant31	1	23.00	22.55	-0.05	0.129	0.082	0.091	YES
L354	LTE B5	QPSK10M	20525	25	12	Right Side	Ant31	1	23.00	22.55	-0.13	0.090	0.057	0.063	YES
L355	LTE B5	QPSK10M	20525	25	12	Top Side	Ant31	1	23.00	22.55	0	0.008	0.006	0.007	YES
L356	LTE B5	QPSK10M	20525	25	12	Bottom Side	Ant31	1	23.00	22.55	-0.13	0.222	0.113	0.125	YES
L357	LTE B5	QPSK10M	20450	1	24	Back Side	Ant31	1	24.00	22.90	0.02	0.209	0.124	0.160	YES
L358	LTE B5	QPSK10M	20600	1	24	Back Side	Ant31	1	24.00	22.98	-0.2	0.261	0.153	0.194	YES
L359	LTE B5	QPSK10M	20600	1	24	Back Side	Ant31	2	24.00	22.98	0.03	0.252	0.149	0.188	YES

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 10g SAR (W/kg)	product specific 10-g SAR Exclusion
L360	LTE B7	QPSK20M	21100	1	50	Front Side	Ant13	1	16.50	15.86	0.04	0.141	0.068	0.079	YES
L361	LTE B7	QPSK20M	21100	1	50	Back Side	Ant13	1	16.50	15.86	0.12	0.480	0.209	0.242	YES
L362	LTE B7	QPSK20M	21100	1	50	Left Side	Ant13	1	16.50	15.86	-0.14	0.080	0.040	0.047	YES
L363	LTE B7	QPSK20M	21100	1	50	Right Side	Ant13	1	16.50	15.86	-0.02	0.006	0.002	0.003	YES
L364	LTE B7	QPSK20M	21100	1	50	Top Side	Ant13	1	16.50	15.86	0.14	0.595	0.254	0.294	YES
L365	LTE B7	QPSK20M	21100	1	50	Bottom Side	Ant13	1	16.50	15.86	0.1	0.002	0.001	0.001	YES
L366	LTE B7	QPSK20M	20850	50	0	Front Side	Ant13	1	16.50	15.59	-0.01	0.129	0.061	0.076	YES
L367	LTE B7	QPSK20M	20850	50	0	Back Side	Ant13	1	16.50	15.59	0.14	0.495	0.219	0.270	YES
L368	LTE B7	QPSK20M	20850	50	0	Left Side	Ant13	1	16.50	15.59	0.11	0.061	0.033	0.041	YES
L369	LTE B7	QPSK20M	20850	50	0	Right Side	Ant13	1	16.50	15.59	0.05	0.008	0.003	0.004	YES
L370	LTE B7	QPSK20M	20850	50	0	Top Side	Ant13	1	16.50	15.59	0.18	0.503	0.219	0.270	YES
L371	LTE B7	QPSK20M	20850	50	0	Bottom Side	Ant13	1	16.50	15.59	0.07	0.002	0.001	0.001	YES
L372	LTE B7	QPSK20M	20850	1	50	Top Side	Ant13	1	16.50	15.60	0.19	0.522	0.227	0.279	YES
L373	LTE B7	QPSK20M	21350	1	99	Top Side	Ant13	1	16.50	15.64	-0.13	0.569	0.247	0.301	YES
L374	LTE B7	QPSK20M	21350	1	99	Top Side	Ant13	2	16.50	15.64	0.02	0.524	0.231	0.282	YES
L375	LTE B7	QPSK20M	21100	1	50	Front Side	Ant31	1	20.00	19.46	0.06	0.116	0.065	0.074	YES
L376	LTE B7	QPSK20M	21100	1	50	Back Side	Ant31	1	20.00	19.46	-0.09	0.242	0.130	0.147	YES
L377	LTE B7	QPSK20M	21100	1	50	Left Side	Ant31	1	20.00	19.46	0	0.013	0.007	0.008	YES
L378	LTE B7	QPSK20M	21100	1	50	Right Side	Ant31	1	20.00	19.46	-0.05	0.120	0.060	0.068	YES
L379	LTE B7	QPSK20M	21100	1	50	Top Side	Ant31	1	20.00	19.46	0.08	0.008	0.004	0.005	YES
L380	LTE B7	QPSK20M	21100	1	50	Bottom Side	Ant31	1	20.00	19.46	0.07	0.137	0.069	0.078	YES
L381	LTE B7	QPSK20M	21100	50	25	Front Side	Ant31	1	20.00	19.45	-0.03	0.120	0.064	0.073	YES
L382	LTE B7	QPSK20M	21100	50	25	Back Side	Ant31	1	20.00	19.45	0.01	0.240	0.129	0.147	YES
L383	LTE B7	QPSK20M	21100	50	25	Left Side	Ant31	1	20.00	19.45	0.03	0.014	0.007	0.008	YES
L384	LTE B7	QPSK20M	21100	50	25	Right Side	Ant31	1	20.00	19.45	0.08	0.110	0.061	0.069	YES
L385	LTE B7	QPSK20M	21100	50	25	Top Side	Ant31	1	20.00	19.45	0.01	0.007	0.003	0.003	YES
L386	LTE B7	QPSK20M	21100	50	25	Bottom Side	Ant31	1	20.00	19.45	0.11	0.130	0.066	0.075	YES
L387	LTE B7	QPSK20M	20850	1	50	Back Side	Ant31	1	20.00	19.31	0.05	0.231	0.121	0.142	YES
L388	LTE B7	QPSK20M	21350	1	50	Back Side	Ant31	1	20.00	19.06	-0.06	0.211	0.113	0.140	YES
L389	LTE B7	QPSK20M	21100	1	50	Back Side	Ant31	2	20.00	19.46	0.07	0.232	0.119	0.135	YES
L390	LTE B13	QPSK10M	23230	1	24	Front Side	Ant13	1	25.00	24.23	-0.04	0.131	0.084	0.101	YES
L391	LTE B13	QPSK10M	23230	1	24	Back Side	Ant13	1	25.00	24.23	0.17	0.205	0.134	0.160	YES
L392	LTE B13	QPSK10M	23230	1	24	Left Side	Ant13	1	25.00	24.23	0.19	0.087	0.058	0.069	YES
L393	LTE B13	QPSK10M	23230	1	24	Right Side	Ant13	1	25.00	24.23	-0.02	0.078	0.052	0.062	YES
L394	LTE B13	QPSK10M	23230	1	24	Top Side	Ant13	1	25.00	24.23	-0.01	0.146	0.080	0.096	YES
L395	LTE B13	QPSK10M	23230	1	24	Bottom Side	Ant13	1	25.00	24.23	0.06	0.006	0.004	0.005	YES
L396	LTE B13	QPSK10M	23230	25	0	Front Side	Ant13	1	24.00	22.93	-0.18	0.146	0.080	0.102	YES
L397	LTE B13	QPSK10M	23230	25	0	Back Side	Ant13	1	24.00	22.93	-0.03	0.156	0.100	0.128	YES
L398	LTE B13	QPSK10M	23230	25	0	Left Side	Ant13	1	24.00	22.93	0	0.071	0.046	0.059	YES
L399	LTE B13	QPSK10M	23230	25	0	Right Side	Ant13	1	24.00	22.93	0.18	0.084	0.057	0.073	YES
L400	LTE B13	QPSK10M	23230	25	0	Top Side	Ant13	1	24.00	22.93	0.19	0.141	0.063	0.081	YES
L401	LTE B13	QPSK10M	23230	25	0	Bottom Side	Ant13	1	24.00	22.93	0.01	0.007	0.004	0.005	YES
L402	LTE B13	QPSK10M	23230	1	24	Back Side	Ant13	2	25.00	24.23	0.06	0.191	0.124	0.148	YES

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 10g SAR (W/kg)	product specific 10-g SAR Exclusion
L403	LTE B13	QPSK10M	23230	1	24	Front Side	Ant31	1	25.00	24.19	-0.06	0.051	0.040	0.048	YES
L404	LTE B13	QPSK10M	23230	1	24	Back Side	Ant31	1	25.00	24.19	0.11	0.077	0.053	0.064	YES
L405	LTE B13	QPSK10M	23230	1	24	Left Side	Ant31	1	25.00	24.19	-0.17	0.046	0.033	0.040	YES
L406	LTE B13	QPSK10M	23230	1	24	Right Side	Ant31	1	25.00	24.19	-0.19	0.036	0.026	0.032	YES
L407	LTE B13	QPSK10M	23230	1	24	Top Side	Ant31	1	25.00	24.19	0.09	0.005	0.003	0.004	YES
L408	LTE B13	QPSK10M	23230	1	24	Bottom Side	Ant31	1	25.00	24.19	0.05	0.079	0.043	0.052	YES
L409	LTE B13	QPSK10M	23230	25	0	Front Side	Ant31	1	24.00	22.87	0.04	0.037	0.028	0.037	YES
L410	LTE B13	QPSK10M	23230	25	0	Back Side	Ant31	1	24.00	22.87	-0.15	0.057	0.041	0.053	YES
L411	LTE B13	QPSK10M	23230	25	0	Left Side	Ant31	1	24.00	22.87	0.11	0.031	0.022	0.029	YES
L412	LTE B13	QPSK10M	23230	25	0	Right Side	Ant31	1	24.00	22.87	-0.19	0.026	0.014	0.018	YES
L413	LTE B13	QPSK10M	23230	25	0	Top Side	Ant31	1	24.00	22.87	0.04	0.004	0.003	0.004	YES
L414	LTE B13	QPSK10M	23230	25	0	Bottom Side	Ant31	1	24.00	22.87	0.14	0.043	0.025	0.032	YES
L415	LTE B13	QPSK10M	23230	1	24	Back Side	Ant31	2	25.00	24.19	0.05	0.071	0.038	0.045	YES
L416	LTE B26	QPSK15M	26865	1	37	Front Side	Ant13	1	25.00	24.28	0.12	0.200	0.131	0.155	YES
L417	LTE B26	QPSK15M	26865	1	37	Back Side	Ant13	1	25.00	24.28	0.1	0.333	0.215	0.254	YES
L418	LTE B26	QPSK15M	26865	1	37	Left Side	Ant13	1	25.00	24.28	-0.04	0.084	0.057	0.067	YES
L419	LTE B26	QPSK15M	26865	1	37	Right Side	Ant13	1	25.00	24.28	-0.03	0.101	0.070	0.083	YES
L420	LTE B26	QPSK15M	26865	1	37	Top Side	Ant13	1	25.00	24.28	0.01	0.248	0.145	0.171	YES
L421	LTE B26	QPSK15M	26865	1	37	Bottom Side	Ant13	1	25.00	24.28	-0.08	0.130	0.009	0.011	YES
L422	LTE B26	QPSK15M	26865	36	19	Front Side	Ant13	1	24.00	23.04	0.01	0.145	0.098	0.122	YES
L423	LTE B26	QPSK15M	26865	36	19	Back Side	Ant13	1	24.00	23.04	0.15	0.249	0.162	0.202	YES
L424	LTE B26	QPSK15M	26865	36	19	Left Side	Ant13	1	24.00	23.04	0.08	0.066	0.044	0.055	YES
L425	LTE B26	QPSK15M	26865	36	19	Right Side	Ant13	1	24.00	23.04	-0.03	0.080	0.055	0.068	YES
L426	LTE B26	QPSK15M	26865	36	19	Top Side	Ant13	1	24.00	23.04	0	0.156	0.088	0.110	YES
L427	LTE B26	QPSK15M	26865	36	19	Bottom Side	Ant13	1	24.00	23.04	0.01	0.009	0.005	0.006	YES
L428	LTE B26	QPSK15M	26765	1	37	Back Side	Ant13	1	25.00	24.16	-0.12	0.288	0.192	0.233	YES
L429	LTE B26	QPSK15M	26965	1	0	Back Side	Ant13	1	25.00	24.08	0.1	0.303	0.204	0.252	YES
L430	LTE B26	QPSK15M	26865	1	37	Back Side	Ant13	2	25.00	24.28	0.18	0.310	0.193	0.228	YES
L431	LTE B26	QPSK15M	26765	1	37	Front Side	Ant31	1	25.00	24.54	0.05	0.114	0.077	0.085	YES
L432	LTE B26	QPSK15M	26765	1	37	Back Side	Ant31	1	25.00	24.54	0.07	0.203	0.132	0.147	YES
L433	LTE B26	QPSK15M	26765	1	37	Left Side	Ant31	1	25.00	24.54	-0.11	0.096	0.066	0.073	YES
L434	LTE B26	QPSK15M	26765	1	37	Right Side	Ant31	1	25.00	24.54	0.09	0.059	0.040	0.044	YES
L435	LTE B26	QPSK15M	26765	1	37	Top Side	Ant31	1	25.00	24.54	0.05	0.009	0.003	0.003	YES
L436	LTE B26	QPSK15M	26765	1	37	Bottom Side	Ant31	1	25.00	24.54	-0.08	0.193	0.108	0.120	YES
L437	LTE B26	QPSK15M	26865	36	0	Front Side	Ant31	1	24.00	23.38	0.02	0.101	0.066	0.076	YES
L438	LTE B26	QPSK15M	26865	36	0	Back Side	Ant31	1	24.00	23.38	0.04	0.180	0.114	0.132	YES
L439	LTE B26	QPSK15M	26865	36	0	Left Side	Ant31	1	24.00	23.38	0.04	0.083	0.058	0.067	YES
L440	LTE B26	QPSK15M	26865	36	0	Right Side	Ant31	1	24.00	23.38	0.13	0.059	0.040	0.047	YES
L441	LTE B26	QPSK15M	26865	36	0	Top Side	Ant31	1	24.00	23.38	0	0.008	0.002	0.002	YES
L442	LTE B26	QPSK15M	26865	36	0	Bottom Side	Ant31	1	24.00	23.38	-0.05	0.183	0.102	0.118	YES
L443	LTE B26	QPSK15M	26865	1	37	Back Side	Ant31	1	25.00	24.44	0.07	0.245	0.152	0.173	YES
L444	LTE B26	QPSK15M	26965	1	37	Back Side	Ant31	1	25.00	24.30	-0.03	0.270	0.166	0.195	YES
L445	LTE B26	QPSK15M	26965	1	37	Back Side	Ant31	2	25.00	24.30	-0.6	0.261	0.162	0.190	YES

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 10g SAR (W/kg)	product specific 10-g SAR Exclusion
L446	LTE B38	QPSK20M	38000	1	50	Front Side	Ant13	1	18.00	17.54	0.05	0.127	0.059	0.066	YES
L447	LTE B38	QPSK20M	38000	1	50	Back Side	Ant13	1	18.00	17.54	-0.15	0.481	0.208	0.231	YES
L448	LTE B38	QPSK20M	38000	1	50	Left Side	Ant13	1	18.00	17.54	0.11	0.081	0.038	0.042	YES
L449	LTE B38	QPSK20M	38000	1	50	Right Side	Ant13	1	18.00	17.54	-0.09	0.002	0.001	0.001	YES
L450	LTE B38	QPSK20M	38000	1	50	Top Side	Ant13	1	18.00	17.54	-0.11	0.484	0.208	0.231	YES
L451	LTE B38	QPSK20M	38000	1	50	Bottom Side	Ant13	1	18.00	17.54	0.16	0.011	0.004	0.004	YES
L452	LTE B38	QPSK20M	38150	50	0	Front Side	Ant13	1	18.00	17.39	-0.02	0.112	0.055	0.063	YES
L453	LTE B38	QPSK20M	38150	50	0	Back Side	Ant13	1	18.00	17.39	-0.04	0.413	0.184	0.212	YES
L454	LTE B38	QPSK20M	38150	50	0	Left Side	Ant13	1	18.00	17.39	-0.19	0.069	0.034	0.039	YES
L455	LTE B38	QPSK20M	38150	50	0	Right Side	Ant13	1	18.00	17.39	0.06	0.003	0.001	0.001	YES
L456	LTE B38	QPSK20M	38150	50	0	Top Side	Ant13	1	18.00	17.39	0.01	0.490	0.211	0.243	YES
L457	LTE B38	QPSK20M	38150	50	0	Bottom Side	Ant13	1	18.00	17.39	0.04	0.007	0.003	0.004	YES
L458	LTE B38	QPSK20M	37850	50	25	Top Side	Ant13	1	18.00	17.29	0.12	0.472	0.210	0.247	YES
L459	LTE B38	QPSK20M	38000	50	0	Top Side	Ant13	1	18.00	17.39	0.08	0.480	0.205	0.236	YES
L460	LTE B38	QPSK20M	38150	50	0	Top Side	Ant13	2	18.00	17.33	-0.18	0.481	0.207	0.242	YES
L461	LTE B38	QPSK20M	38150	1	50	Front Side	Ant31	1	23.50	23.26	0.04	0.177	0.096	0.101	YES
L462	LTE B38	QPSK20M	38150	1	50	Back Side	Ant31	1	23.50	23.26	-0.02	0.314	0.163	0.172	YES
L463	LTE B38	QPSK20M	38150	1	50	Left Side	Ant31	1	23.50	23.26	0.05	0.039	0.022	0.023	YES
L464	LTE B38	QPSK20M	38150	1	50	Right Side	Ant31	1	23.50	23.26	-0.06	0.155	0.084	0.089	YES
L465	LTE B38	QPSK20M	38150	1	50	Top Side	Ant31	1	23.50	23.26	0.03	0.027	0.013	0.014	YES
L466	LTE B38	QPSK20M	38150	1	50	Bottom Side	Ant31	1	23.50	23.26	-0.13	0.179	0.084	0.089	YES
L467	LTE B38	QPSK20M	38150	50	25	Front Side	Ant31	1	22.50	22.08	-0.12	0.189	0.102	0.112	YES
L468	LTE B38	QPSK20M	38150	50	25	Back Side	Ant31	1	22.50	22.18	0.16	0.306	0.156	0.168	YES
L469	LTE B38	QPSK20M	38150	50	25	Left Side	Ant31	1	22.50	22.18	0.13	0.047	0.024	0.026	YES
L470	LTE B38	QPSK20M	38150	50	25	Right Side	Ant31	1	22.50	22.18	-0.03	0.145	0.080	0.086	YES
L471	LTE B38	QPSK20M	38150	50	25	Top Side	Ant31	1	22.50	22.18	0.02	0.023	0.013	0.014	YES
L472	LTE B38	QPSK20M	38150	50	25	Bottom Side	Ant31	1	22.50	22.18	0.09	0.177	0.081	0.087	YES
L473	LTE B38	QPSK20M	37850	1	50	Back Side	Ant31	1	23.50	23.12	-0.03	0.302	0.156	0.170	YES
L474	LTE B38	QPSK20M	38000	1	0	Back Side	Ant31	1	23.50	23.21	-0.13	0.296	0.154	0.165	YES
L475	LTE B38	QPSK20M	38150	1	50	Back Side	Ant31	2	23.50	23.26	0.15	0.308	0.161	0.170	YES
L506	LTE B41	QPSK20M	40620	1	50	Front Side	Ant13	1	17.90	17.35	-0.04	0.122	0.057	0.065	YES
L507	LTE B41	QPSK20M	40620	1	50	Back Side	Ant13	1	17.90	17.45	0.12	0.436	0.195	0.216	YES
L508	LTE B41	QPSK20M	40620	1	50	Left Side	Ant13	1	17.90	17.45	0.02	0.059	0.030	0.034	YES
L509	LTE B41	QPSK20M	40620	1	50	Right Side	Ant13	1	17.90	17.45	0	<0.001	<0.001	<0.001	YES
L510	LTE B41	QPSK20M	40620	1	50	Top Side	Ant13	1	17.90	17.45	-0.02	0.465	0.201	0.223	YES
L511	LTE B41	QPSK20M	40620	1	50	Bottom Side	Ant13	1	17.90	17.45	0.13	0.003	0.001	0.001	YES
L512	LTE B41	QPSK20M	41055	50	0	Front Side	Ant13	1	17.90	17.17	0.14	0.102	0.048	0.057	YES
L513	LTE B41	QPSK20M	41055	50	0	Back Side	Ant13	1	17.90	17.17	0.08	0.395	0.165	0.195	YES
L514	LTE B41	QPSK20M	41055	50	0	Left Side	Ant13	1	17.90	17.17	0.08	0.058	0.031	0.037	YES
L515	LTE B41	QPSK20M	41055	50	0	Right Side	Ant13	1	17.90	17.17	-0.01	<0.001	<0.001	<0.001	YES
L516	LTE B41	QPSK20M	41055	50	0	Top Side	Ant13	1	17.90	17.17	-0.05	0.431	0.179	0.212	YES
L517	LTE B41	QPSK20M	41055	50	0	Bottom Side	Ant13	1	17.90	17.17	0.11	0.009	0.003	0.004	YES
L518	LTE B41	QPSK20M	39750	1	50	Top Side	Ant13	1	17.90	17.03	-0.1	0.419	0.182	0.222	YES
L519	LTE B41	QPSK20M	40185	1	50	Top Side	Ant13	1	17.90	16.62	0.15	0.371	0.160	0.215	YES
L520	LTE B41	QPSK20M	41055	1	0	Top Side	Ant13	1	17.90	17.17	-0.11	0.425	0.183	0.216	YES
L521	LTE B41	QPSK20M	41490	1	0	Top Side	Ant13	1	17.90	17.11	0.08	0.365	0.155	0.186	YES
L522	LTE B41	QPSK20M	40620	1	50	Top Side	Ant13	2	17.90	17.45	0.01	0.455	0.196	0.217	YES

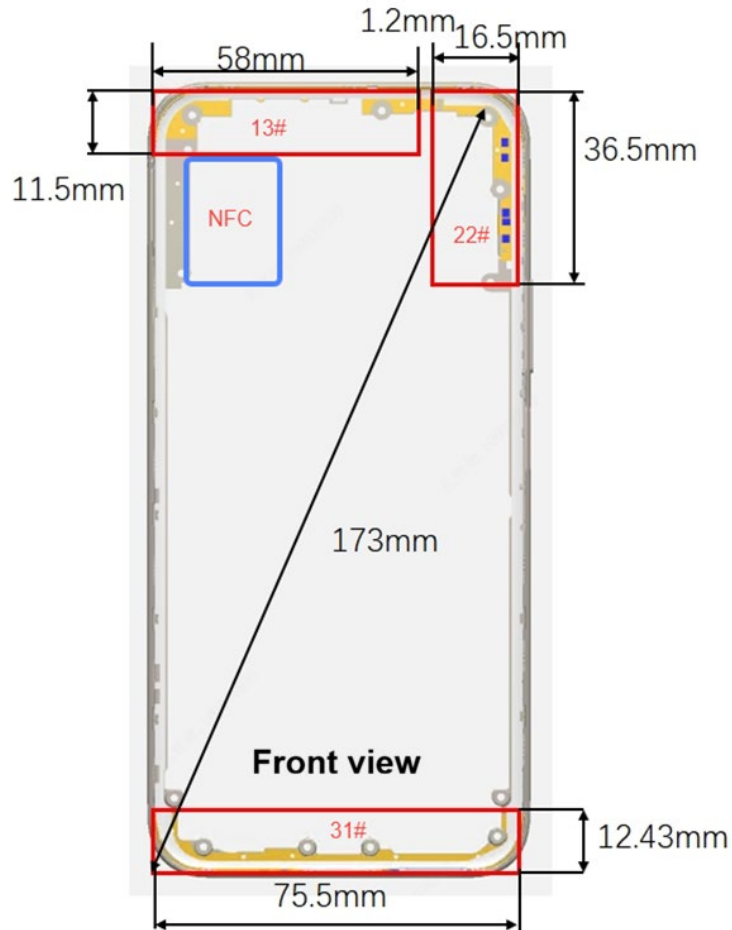
Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	SIM	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 10g SAR (W/kg)	product specific 10-g SAR Exclusion
L523	LTE B41	QPSK20M	40620	1	50	Front Side	Ant31	1	23.40	22.95	0.15	0.164	0.089	0.099	YES
L524	LTE B41	QPSK20M	40620	1	50	Back Side	Ant31	1	23.40	22.95	0.13	0.311	0.163	0.181	YES
L525	LTE B41	QPSK20M	40620	1	50	Left Side	Ant31	1	23.40	22.95	0.17	0.026	0.011	0.013	YES
L526	LTE B41	QPSK20M	40620	1	50	Right Side	Ant31	1	23.40	22.95	0.09	0.129	0.071	0.079	YES
L527	LTE B41	QPSK20M	40620	1	50	Top Side	Ant31	1	23.40	22.95	0.05	0.031	0.013	0.014	YES
L528	LTE B41	QPSK20M	40620	1	50	Bottom Side	Ant31	1	23.40	22.95	-0.12	0.160	0.074	0.082	YES
L529	LTE B41	QPSK20M	40620	50	25	Front Side	Ant31	1	22.40	22.25	-0.1	0.137	0.076	0.078	YES
L530	LTE B41	QPSK20M	40620	50	25	Back Side	Ant31	1	22.40	22.25	-0.01	0.300	0.158	0.164	YES
L531	LTE B41	QPSK20M	40620	50	25	Left Side	Ant31	1	22.40	22.25	0.16	0.034	0.020	0.021	YES
L532	LTE B41	QPSK20M	40620	50	25	Right Side	Ant31	1	22.40	22.25	-0.19	0.144	0.079	0.081	YES
L533	LTE B41	QPSK20M	40620	50	25	Top Side	Ant31	1	22.40	22.25	0.09	0.025	0.011	0.011	YES
L534	LTE B41	QPSK20M	40620	50	25	Bottom Side	Ant31	1	22.40	22.25	0.19	0.161	0.075	0.077	YES
L535	LTE B41	QPSK20M	39750	1	50	Back Side	Ant31	1	23.40	22.66	0.17	0.284	0.152	0.180	YES
L536	LTE B41	QPSK20M	40185	1	0	Back Side	Ant31	1	23.40	22.48	-0.15	0.263	0.146	0.180	YES
L537	LTE B41	QPSK20M	41055	1	50	Back Side	Ant31	1	23.40	22.64	-0.05	0.261	0.141	0.168	YES
L538	LTE B41	QPSK20M	41490	1	50	Back Side	Ant31	1	23.40	22.85	-0.19	0.269	0.146	0.166	YES
L539	LTE B41	QPSK20M	40620	1	50	Back Side	Ant31	2	23.40	22.95	0.09	0.308	0.161	0.179	YES
L540	LTE B66	QPSK20M	132322	1	0	Front Side	Ant13	1	20.00	19.27	-0.13	0.315	0.169	0.200	YES
L541	LTE B66	QPSK20M	132322	1	0	Back Side	Ant13	1	20.00	19.27	0.17	0.346	0.195	0.231	YES
L542	LTE B66	QPSK20M	132322	1	0	Left Side	Ant13	1	20.00	19.27	-0.09	0.068	0.041	0.048	YES
L543	LTE B66	QPSK20M	132322	1	0	Right Side	Ant13	1	20.00	19.27	0.09	0.031	0.049	0.058	YES
L544	LTE B66	QPSK20M	132322	1	0	Top Side	Ant13	1	20.00	19.27	-0.05	0.463	0.233	0.276	YES
L545	LTE B66	QPSK20M	132322	1	0	Bottom Side	Ant13	1	20.00	19.27	-0.01	0.014	0.008	0.009	YES
L546	LTE B66	QPSK20M	132572	50	0	Front Side	Ant13	1	20.00	19.24	0.07	0.280	0.148	0.176	YES
L547	LTE B66	QPSK20M	132572	50	0	Back Side	Ant13	1	20.00	19.24	0.16	0.335	0.189	0.225	YES
L548	LTE B66	QPSK20M	132572	50	0	Left Side	Ant13	1	20.00	19.24	-0.03	0.056	0.033	0.039	YES
L549	LTE B66	QPSK20M	132572	50	0	Right Side	Ant13	1	20.00	19.24	0.1	0.029	0.017	0.020	YES
L550	LTE B66	QPSK20M	132572	50	0	Top Side	Ant13	1	20.00	19.24	0.19	0.455	0.233	0.278	YES
L551	LTE B66	QPSK20M	132572	50	0	Bottom Side	Ant13	1	20.00	19.24	-0.05	0.007	0.004	0.004	YES
L552	LTE B66	QPSK20M	132072	1	50	Top Side	Ant13	1	20.00	19.26	-0.06	0.411	0.209	0.248	YES
L553	LTE B66	QPSK20M	132572	1	50	Top Side	Ant13	1	20.00	19.25	0.12	0.430	0.223	0.265	YES
L554	LTE B66	QPSK20M	132322	1	0	Top Side	Ant13	2	20.00	19.27	0.1	0.434	0.226	0.267	YES
L555	LTE B66	QPSK20M	132322	1	0	Front Side	Ant31	1	19.50	18.49	-0.04	0.078	0.047	0.059	YES
L556	LTE B66	QPSK20M	132322	1	0	Back Side	Ant31	1	19.50	18.49	-0.13	0.152	0.091	0.115	YES
L557	LTE B66	QPSK20M	132322	1	0	Left Side	Ant31	1	19.50	18.49	0.05	0.019	0.012	0.015	YES
L558	LTE B66	QPSK20M	132322	1	0	Right Side	Ant31	1	19.50	18.49	0.03	0.017	0.030	0.038	YES
L559	LTE B66	QPSK20M	132322	1	0	Top Side	Ant31	1	19.50	18.49	0.08	0.008	0.005	0.006	YES
L560	LTE B66	QPSK20M	132322	1	0	Bottom Side	Ant31	1	19.50	18.49	-0.09	0.270	0.151	0.190	YES
L561	LTE B66	QPSK20M	132322	50	0	Front Side	Ant31	1	19.50	18.43	-0.17	0.072	0.044	0.056	YES
L562	LTE B66	QPSK20M	132322	50	0	Back Side	Ant31	1	19.50	18.43	-0.07	0.150	0.088	0.113	YES
L563	LTE B66	QPSK20M	132322	50	0	Left Side	Ant31	1	19.50	18.43	0.04	0.018	0.012	0.015	YES
L564	LTE B66	QPSK20M	132322	50	0	Right Side	Ant31	1	19.50	18.43	0.05	0.030	0.018	0.022	YES
L565	LTE B66	QPSK20M	132322	50	0	Top Side	Ant31	1	19.50	18.43	0.09	0.009	0.005	0.006	YES
L566	LTE B66	QPSK20M	132322	50	0	Bottom Side	Ant31	1	19.50	18.43	-0.1	0.245	0.140	0.179	YES
L567	LTE B66	QPSK20M	132072	1	50	Bottom Side	Ant31	1	19.50	18.44	-0.09	0.218	0.123	0.157	YES
L568	LTE B66	QPSK20M	132572	1	99	Bottom Side	Ant31	1	19.50	18.33	0.09	0.200	0.115	0.151	YES
L560	LTE B66	QPSK20M	132322	1	0	Bottom Side	Ant31	2	19.50	18.49	0.05	0.253	0.142	0.179	YES

Test No.	Band	Mode	Channel	Test Position	Data Rate	Duty Cycle (%)	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR (W/kg)	product specific 10-g SAR Exclusion
W79	WiFi 2.4G	802.11b	11	Front Side	1M	97.89	19.50	19.15	0.07	0.184	0.099	0.110	YES
W80	WiFi 2.4G	802.11b	11	Back Side	1M	97.89	19.50	19.15	-0.06	0.627	0.343	0.380	YES
W81	WiFi 2.4G	802.11b	11	Left Side	1M	97.89	19.50	19.15	0.04	0.039	0.018	0.020	YES
W82	WiFi 2.4G	802.11b	11	Right Side	1M	97.89	19.50	19.15	-0.08	0.206	0.113	0.125	YES
W83	WiFi 2.4G	802.11b	11	Top Side	1M	97.89	19.50	19.15	0.11	0.175	0.095	0.105	YES
W84	WiFi 2.4G	802.11b	11	Bottom Side	1M	97.89	19.50	19.15	-0.03	0.019	0.011	<0.001	YES
W85	WiFi 2.4G	802.11b	1	Back Side	1M	97.89	19.50	18.89	0.06	0.536	0.291	0.342	YES
W86	WiFi 2.4G	802.11b	6	Back Side	1M	97.89	19.50	18.82	-0.04	0.641	0.349	0.417	YES
B07	BT	DH5	78	Front Side	1M	76.30	14.00	12.60	-0.09	0.032	0.017	0.031	YES
B08	BT	DH5	78	Back Side	1M	76.30	14.00	12.60	0.04	0.115	0.062	0.113	YES
B09	BT	DH5	78	Left Side	1M	76.30	14.00	12.60	-0.03	0.024	0.014	0.026	YES
B10	BT	DH5	78	Right Side	1M	76.30	14.00	12.60	0.01	0.035	0.018	0.033	YES
B11	BT	DH5	78	Top Side	1M	76.30	14.00	12.60	0.02	0.031	0.017	0.031	YES
B12	BT	DH5	78	Bottom Side	1M	76.30	14.00	12.60	0.16	0.019	0.011	0.020	YES
B13	BT	DH5	0	Back Side	1M	76.30	14.00	12.52	0.08	0.100	0.056	0.102	YES
B14	BT	DH5	39	Back Side	1M	76.30	14.00	12.55	-0.04	0.103	0.056	0.102	YES
W87	WiFi 5.2G UNII_1	802.11a	36	Front Side	6M	98.08	16.00	15.37	0.06	0.209	0.074	0.087	YES
W88	WiFi 5.2G UNII_1	802.11a	36	Back Side	6M	98.08	16.00	15.37	0.05	0.540	0.206	0.243	YES
W89	WiFi 5.2G UNII_1	802.11a	36	Left Side	6M	98.08	16.00	15.37	-0.08	0.045	0.017	0.020	YES
W90	WiFi 5.2G UNII_1	802.11a	36	Right Side	6M	98.08	16.00	15.37	0.13	0.350	0.144	0.170	YES
W91	WiFi 5.2G UNII_1	802.11a	36	Top Side	6M	98.08	16.00	15.37	0.06	0.482	0.174	0.205	YES
W92	WiFi 5.2G UNII_1	802.11a	36	Bottom Side	6M	98.08	16.00	15.37	0.04	0.012	0.005	0.006	YES
W93	WiFi 5.2G UNII_1	802.11a	48	Back Side	6M	98.08	16.00	15.12	0.08	0.495	0.187	0.233	YES
W94	WiFi 5.3G UNII_2A	802.11a	64	Front Side	6M	98.08	16.00	15.42	0.07	0.150	0.056	0.066	YES
W95	WiFi 5.3G UNII_2A	802.11a	64	Back Side	6M	98.08	16.00	15.42	-0.03	0.382	0.145	0.169	YES
W96	WiFi 5.3G UNII_2A	802.11a	64	Left Side	6M	98.08	16.00	15.42	0.05	0.048	0.010	0.012	YES
W97	WiFi 5.3G UNII_2A	802.11a	64	Right Side	6M	98.08	16.00	15.42	0.13	0.170	0.068	0.079	YES
W98	WiFi 5.3G UNII_2A	802.11a	64	Top Side	6M	98.08	16.00	15.42	0.04	0.370	0.136	0.158	YES
W99	WiFi 5.3G UNII_2A	802.11a	64	Bottom Side	6M	98.08	16.00	15.42	0.09	0.018	0.008	<0.001	YES
W100	WiFi 5.3G UNII_2A	802.11a	52	Back Side	6M	98.08	16.00	15.29	0.05	0.448	0.166	0.199	YES
W101	WiFi 5.6G UNII_2C	802.11a	120	Front Side	6M	98.08	16.50	15.68	0.06	0.232	0.079	0.097	YES
W102	WiFi 5.6G UNII_2C	802.11a	120	Back Side	6M	98.08	16.50	15.68	0.04	0.355	0.123	0.151	YES
W103	WiFi 5.6G UNII_2C	802.11a	120	Left Side	6M	98.08	16.50	15.68	0.07	0.075	0.019	0.023	YES
W104	WiFi 5.6G UNII_2C	802.11a	120	Right Side	6M	98.08	16.50	15.68	0.05	0.606	0.177	0.218	YES
W105	WiFi 5.6G UNII_2C	802.11a	120	Top Side	6M	98.08	16.50	15.68	-0.01	0.188	0.066	0.081	YES
W106	WiFi 5.6G UNII_2C	802.11a	120	Bottom Side	6M	98.08	16.50	15.68	-0.02	0.046	0.020	<0.001	YES
W107	WiFi 5.6G UNII_2C	802.11a	100	Right Side	6M	98.08	16.50	15.49	0.06	0.279	0.089	0.115	YES
W108	WiFi 5.6G UNII_2C	802.11a	140	Right Side	6M	98.08	16.50	15.52	0.01	0.695	0.214	0.273	YES
W109	WiFi 5.8G UNII_3	802.11a	149	Front Side	6M	98.08	16.50	15.72	0.11	0.206	0.065	0.079	YES
W110	WiFi 5.8G UNII_3	802.11a	149	Back Side	6M	98.08	16.50	15.72	0.02	0.445	0.146	0.178	YES
W111	WiFi 5.8G UNII_3	802.11a	149	Left Side	6M	98.08	16.50	15.72	0.04	0.039	0.007	0.009	YES
W112	WiFi 5.8G UNII_3	802.11a	149	Right Side	6M	98.08	16.50	15.72	0.13	0.649	0.200	0.244	YES
W113	WiFi 5.8G UNII_3	802.11a	149	Top Side	6M	98.08	16.50	15.72	-0.06	0.274	0.095	0.115	YES
W114	WiFi 5.8G UNII_3	802.11a	149	Bottom Side	6M	98.08	16.50	15.72	0.08	0.054	0.024	<0.001	YES
W115	WiFi 5.8G UNII_3	802.11a	157	Right Side	6M	98.08	16.50	15.52	0.04	0.615	0.191	0.244	YES
W116	WiFi 5.8G UNII_3	802.11a	165	Right Side	6M	98.08	16.50	15.47	0.03	0.516	0.161	0.208	YES

6.3 MULTIPLE TRANSMITTER EVALUATION

The following tables list information which is relevant for the decision if a simultaneous transmit evaluation is necessary according to FCC KDB447498 D01 General RF Exposure Guidance v06.

The location of the antenna inside EUT is as below:



6.3.1 SIMULTANEOUS TRANSMISSION CONDITIONS

Per FCC KDB447498, SAR compliance for simultaneous transmission must be considered when the maximum duration of overlapping transmissions, including network hand-offs, is greater than 30 seconds. This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis.

The Simultaneous Transmission Possibilities of this device are as below:

NO.	Simultaneous Tx Combination	Head	Body-worn	Hotspot
1	GSM/UMTS/LTE (Ant 31#) + WiFi 2.4G (Ant 22#)	Yes	Yes	Yes
2	GSM/UMTS/LTE (Ant 31#) + WiFi 5G (Ant 22#)	Yes	Yes	Yes
3	GSM/UMTS/LTE (Ant 31#) + BT (Ant 22#)	Yes	Yes	Yes
4	UMTS/LTE (Ant 13#) + WiFi 2.4G (Ant 22#)	Yes	Yes	Yes
5	UMTS/LTE (Ant 13#) + WiFi 5G (Ant 22#)	Yes	Yes	Yes
6	UMTS/LTE (Ant 13#) + BT (Ant 22#)	Yes	Yes	Yes
7	BT (Ant 22#) + WiFi 5G (Ant 22#)	Yes	Yes	Yes
8	GSM/UMTS/LTE (Ant 31#) + BT (Ant 22#) + WiFi 5G (Ant 22#)	Yes	Yes	Yes
9	GSM/UMTS/LTE (Ant 31#) + BT (Ant 22#) + WiFi 5G (Ant 22#)	Yes	Yes	Yes
10	GSM/UMTS/LTE (Ant 31#) + BT (Ant 22#) + WiFi 5G (Ant 22#)	Yes	Yes	Yes
11	UMTS/LTE (Ant 13#) + BT (Ant 22#) + WiFi 5G (Ant 22#)	Yes	Yes	Yes
12	UMTS/LTE (Ant 13#) + BT (Ant 22#) + WiFi 5G (Ant 22#)	Yes	Yes	Yes
13	UMTS/LTE (Ant 13#) + BT (Ant 22#) + WiFi 5G (Ant 22#)	Yes	Yes	Yes

Note:

- 1) 2G&3G&4G can't transmit simultaneously.
- 2) WiFi 2.4G and Bluetooth can't transmit simultaneously.
- 3) WiFi 2.4G and WiFi 5G can't transmit simultaneously.

6.3.2 SAR SUMMATION SCENARIO

1. GSM/UMTS/LTE antenna (Ant 13#) + BT/WiFi 2.4G/5G (Ant 22#)

Position	Head				Body worn		Hotspot					
	Right Cheek	Right Tilted	Left Cheek	Left Tilted	Front Side (15mm)	Back Side (15mm)	Front Side (10mm)	Back Side (10mm)	Left Side (10mm)	Right Side (10mm)	Top Side (10mm)	Bottom Side (10mm)
GSM 850	/	/	/	/	/	/	/	/	/	/	/	/
GSM 1900	/	/	/	/	/	/	/	/	/	/	/	/
UMTS B2	/	/	/	/	0.132	0.218	0.204	0.310	0.048	0.005	0.453	0.007
UMTS B4	/	/	/	/	0.298	0.374	0.447	0.502	0.088	0.012	0.644	<0.001
UMTS B5	/	/	/	/	0.172	0.268	0.179	0.333	0.064	0.079	0.239	0.014
LTE B2	/	/	/	/	0.135	0.221	0.177	0.263	0.050	0.025	0.417	0.009
LTE B4	/	/	/	/	0.216	0.290	0.324	0.344	0.061	0.035	0.491	0.016
LTE B5	/	/	/	/	0.133	0.207	0.230	0.400	0.099	0.103	0.255	0.013
LTE B7	/	/	/	/	0.103	0.408	0.163	0.611	0.093	0.010	0.694	0.002
LTE B13	/	/	/	/	0.153	0.189	0.187	0.245	0.104	0.108	0.181	0.009
LTE B26	/	/	/	/	0.103	0.192	0.236	0.393	0.099	0.119	0.293	0.153
LTE B38	/	/	/	/	0.098	0.336	0.141	0.535	0.090	0.003	0.564	0.012
LTE B41	/	/	/	/	0.096	0.314	0.138	0.484	0.069	<0.001	0.516	0.011
LTE B66	/	/	/	/	0.264	0.328	0.373	0.410	0.081	0.036	0.548	0.017
WLAN 2.4G	0.349	0.438	0.730	0.565	0.117	0.338	0.204	0.766	0.043	0.228	0.194	0.021
WLAN 5.2G	0.185	0.258	0.657	0.896	0.224	0.789	0.246	0.637	0.053	0.413	0.568	0.015
WLAN 5.3G	0.201	0.272	0.433	0.810	0.274	0.990	0.175	0.538	0.056	0.198	0.431	0.020
WLAN 5.6G	0.309	0.590	0.981	0.762	0.201	0.460	0.286	0.437	0.092	0.888	0.232	0.056
WLAN 5.8G	0.164	0.253	0.583	0.632	0.187	0.417	0.251	0.543	0.048	0.792	0.334	0.066
Bluetooth	0.083	0.123	0.216	0.194	0.058	0.208	0.058	0.208	0.044	0.062	0.056	0.034
Max. SAR Summation	-	-	-	-	-	-	0.733	1.377	0.196	1.007	1.262	0.219

Note:

- 1) MAX. $\sum SAR_{1g} = 1.377 \text{ W/Kg} < 1.6 \text{ W/Kg}$, so the SAR to peak location separation ratio should not be considered.
- 2) The maximum SAR summation is calculated based on the same configuration and test position.

2. GSM/UMTS/LTE antenna (Ant 31#) + BT/WiFi 2.4G/5G (Ant 22#)

Position	Head				Body worn		Hotspot					
	Right Cheek	Right Tilted	Left Cheek	Left Tilted	Front Side (15mm)	Back Side (15mm)	Front Side (10mm)	Back Side (10mm)	Left Side (10mm)	Right Side (10mm)	Top Side (10mm)	Bottom Side (10mm)
GSM 850	0.216	0.117	0.340	0.153	0.193	0.359	0.146	0.608	0.077	0.056	0.011	0.227
GSM 1900	0.071	0.052	0.108	0.052	0.184	0.312	0.395	0.644	0.104	0.207	<0.001	0.843
UMTS B2	0.124	0.100	0.206	0.100	0.217	0.387	0.194	0.380	0.052	0.102	0.007	0.528
UMTS B4	0.057	0.053	0.098	0.012	0.120	0.330	0.127	0.248	0.015	0.046	<0.001	0.398
UMTS B5	0.125	0.154	0.229	0.127	0.204	0.247	0.151	0.300	0.097	0.089	0.013	0.261
LTE B2	0.090	0.063	0.140	0.054	0.164	0.271	0.174	0.334	0.055	0.096	0.015	0.487
LTE B4	0.057	0.049	0.094	0.056	0.115	0.224	0.125	0.245	0.037	0.042	0.012	0.400
LTE B5	0.129	0.076	0.185	0.105	0.165	0.197	0.161	0.330	0.152	0.100	0.010	0.306
LTE B7	0.298	0.168	0.149	0.124	0.128	0.248	0.136	0.274	0.016	0.136	0.009	0.155
LTE B13	0.068	0.036	0.070	0.033	0.109	0.128	0.061	0.093	0.055	0.043	0.006	0.095
LTE B26	0.178	0.107	0.227	0.136	0.157	0.244	0.127	0.317	0.107	0.068	0.010	0.214
LTE B38	0.182	0.083	0.103	0.072	0.133	0.253	0.208	0.332	0.051	0.164	0.029	0.190
LTE B41	0.216	0.065	0.107	0.085	0.115	0.236	0.182	0.345	0.035	0.149	0.034	0.177
LTE B66	0.050	0.043	0.130	0.061	0.244	0.285	0.099	0.192	0.023	0.039	0.011	0.340
WLAN 2.4G	0.349	0.438	0.730	0.565	0.117	0.358	0.204	0.766	0.043	0.228	0.194	0.021
WLAN 5.2G	0.185	0.258	0.657	0.896	0.224	0.789	0.246	0.637	0.053	0.413	0.568	0.015
WLAN 5.3G	0.201	0.272	0.433	0.810	0.274	0.990	0.175	0.538	0.056	0.198	0.431	0.020
WLAN 5.6G	0.309	0.590	0.981	0.762	0.201	0.460	0.286	0.437	0.092	0.888	0.232	0.056
WLAN 5.8G	0.164	0.253	0.583	0.632	0.187	0.417	0.251	0.543	0.048	0.792	0.334	0.066
Bluetooth	0.083	0.123	0.216	0.194	0.058	0.208	0.058	0.208	0.044	0.062	0.056	0.034
Max. SAR Summation	0.647	0.758	1.321	1.049	-	-	0.681	1.410	0.244	1.095	0.602	0.909

Note:

- 1) MAX. $\sum \text{SAR}_{1g} = 1.410 \text{ W/Kg} < 1.6 \text{ W/Kg}$, so the SAR to peak location separation ratio should not be considered.
- 2) The maximum SAR summation is calculated based on the same configuration and test position.

APPENDIX

1. TEST LAYOUT

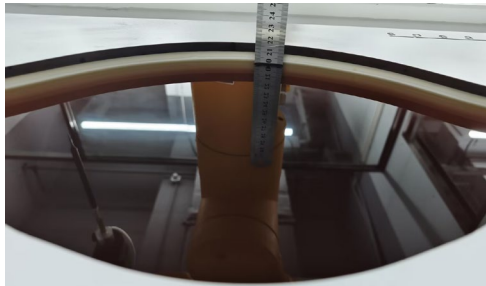
Specific Absorption Rate Test Layout



Liquid depth in the flat Phantom ($\geq 15\text{cm}$ depth)

Head_H600-10000_17.1cm

Body_H600-10000_20.1cm



Appendix A. SAR Plots of System Verification

(Pls See BTL-FCC SAR-1-2602C252A_Appendix A.)

Appendix B. SAR Plots of SAR Measurement

(Pls See BTL-FCC SAR-1-2602C252A_Appendix B.)

Appendix C. Calibration Certificate

(Pls See BTL-FCC SAR-1-2602C252A_Appendix C.)

Appendix D. Photographs of the Test Set-Up

(Pls See BTL-FCC SAR-1-2602C252A_Appendix D.)

Appendix E. Conducted power measurement result

(Pls See BTL-FCC SAR-1-2602C252A_Appendix E.)